DEPARTMENT OF FACILITIES MANAGEMENT

REQUEST FOR PROPOSALS (OPEN)

FOR

ENGINEERING CONSULTING SERVICES

FOR
VAR-610-19: ARC FLASH CONSULTING SERVICES

Open Call Number: RFP-041-26

Issued: Thursday, July 23, 2026

Submission Deadline: Thursday, August 20, 2026 @ 3:00 PM NDT

Request for Proposal (RFP)			
Title:	**VAR-610-19: ARC FLASH CONSULTING SERVICES**		
RFP Number:	**RFP-041-26**	Issue Date:	**Thursday, July 23, 2026**
Questions Deadline:	**Seven (7) calendar days prior to close time at 3:00PM NDT**	Closing Date and Time: Proposal Submission Format: Opening Date & Time:	**Thursday, August 20, 2026 @ 3:00PM NDT** **opencalls@mun.ca** **Thursday, August 20, 2026 @ 3:30 PM NDT** **Via Conference line: 1-416-915-6530 (toll free) Access Code: *2774 090 0004.* Attendee ID: Please press Pound(#)**
Proposals Irrevocable Period after Submission Deadline:			60 days
Proposal Submission: Responses to this solicitation must be submitted by email to opencalls@mun.ca. Email subject line must read: RFP-041-26 ARC FLASH CONSULTING SERVICES			

Inquiries and Communication

Inquiries and communication: Strategic Procurement Office, Financial and Administrative Services, Memorial University of Newfoundland, opencalls@mun.ca. Inquiries accepted only via email. No phone calls will be accepted.

Please reference RFP-041-26 ARC FLASH CONSULTING SERVICES in subject line. Emails not containing this requirement information in the subject line will NOT be responded to.

Proposals submitted by fax, mail, courier, drop-off or by any other means of delivery other than by email stated above shall not be accepted.

ABOUT MEMORIAL UNIVERSITY

As Newfoundland and Labrador's only university, Memorial has a special obligation to the people of this province. Established as a memorial to the Newfoundlanders who lost their lives on active service during the First and Second World Wars, Memorial University draws inspiration from these shattering sacrifices of the past as we help to build a better future for our province, our country and our world.

We are a multi-campus, multi-disciplinary, public university committed to excellence in teaching and learning, research and scholarship, and to public engagement and service. We strive to have national and global impact, while fulfilling our social mandate to provide access to university education for the people of the province and to contribute to the social, cultural, scientific and economic development of Newfoundland and Labrador and beyond.

The Memorial experience goes beyond academics; it invites a discovery of self, community and place. At Memorial, we celebrate our unique identity through the stories of our people – the work of scholars and educators, the ingenuity of students, the achievements of alumni – and the impact we collectively make in the province, the country and the world. Memorial is the natural place where people and ideas become.

Memorial University has more than 18,500 students and 3,600 faculty and staff spread across four campuses and nearly 100,000 alumni active throughout the world. From local endeavors to research projects of national importance, Memorial's impact is felt far and wide.

Mission, Vision and Values

Vision

Memorial University will be one of the most distinguished public universities in Canada and beyond, and will fulfill its special obligation to the people of Newfoundland and Labrador.

Mission

Memorial University is an inclusive community dedicated to innovation and excellence in teaching and learning, research, scholarship, creative activity, service and public engagement.
Memorial welcomes and supports students and scholars from all over the world and contributes knowledge and expertise locally, nationally and internationally.

Values

Excellence: Encouraging and promoting excellence through innovation and creativity, rigor and pragmatism.

Integrity: Being honest and ethical in all interactions, maintaining the highest ethical standards in teaching, research, public engagement and service.

Collegiality: Engaging others with respect, openness and trust in pursuit of a common purpose, having regard for individuals, ideals and the institution as a whole.

Inclusiveness and diversity: Embracing and acting on responsibility to guarantee diversity and equity.

Responsiveness: Being receptive to individuals and communities.

Accountability: Accepting responsibility for achievement of common goals and objectives.

Freedom and Discovery: Supporting the freedom to pursue knowledge that is based on individual and collective intelligence, curiosity, ingenuity and creativity.

Recognition: Acknowledging, tangibly, all aspects of university enterprise including teaching and learning, research, scholarship, creative activity and public engagement.

Responsibility to place: Valuing and fulfilling the special obligation to the people of Newfoundland and Labrador by supporting and building capacity for excellence that:

- addresses needs and opportunities for Newfoundland and Labrador;
- engages the university community on matters of national and international significance;
- produces and delivers academic programs of national and international caliber and,
- Recognizes the dynamic opportunities presented by a multi-campus institution.

Responsibility to learners: Recognizing students as a first priority and providing the environment and support to ensure their academic and personal success.

Interdisciplinary collaboration: Supporting overarching themes in all pursuits that cut across academic units and address significant opportunities and challenges for which Memorial is particularly well positioned to build nationally and internationally recognized capacity.

Sustainability: Acting in a manner that is environmentally, economically and socially sustainable in administration, academic and research programs.

Memorial's exceptional staff and students contribute to the vitality and positive environment of the university through active community engagement. Memorial University has always been a publicly engaged institution. Since the founding of the University in 1949, the work of many of Memorial's students, faculty and staff has emphasized the importance of strong, sustained partnerships with members of the public of Newfoundland and Labrador and beyond.

Faculty and Staff

Memorial is one of the largest employers in the province, with approximately 3,600 faculty and staff. Memorial has been recognized as an Employer of Distinction by the Newfoundland and Labrador Employers' Council, which is reflective of its investment in comprehensive benefits, services such as childcare and recreation facilities, emphasis on work-life balance, and its vibrant work environment.

Governance and Administration

The management, administration and control of the property, revenue, business and affairs of the University are vested in a Board of Regents. The Board is appointed under the *Memorial University Act* and is responsible for the management, administration, and control of the property, revenue, business and affairs of the university. Matters of an academic character are in general charge of the Senate of the University.

For more information on Memorial University of Newfoundland, please visit: Memorial home page:

http://www.mun.ca/

Territory Acknowledgements at Memorial:

We acknowledge that the lands on which Memorial University's Campus are situated are in the traditional territories of diverse Indigenous groups and we acknowledge with respect the diverse histories and cultures of the Beothuk, Mi'kmaq, Innu, and Inuit of this province.

PART 1 – SUBMISSION INSTRUCTIONS

1.1 Proposals to be Submitted on Time

Proposals must be submitted as set out above on or before the Submission Deadline. Proposals submitted after the Submission Deadline will be rejected. Onus and responsibility rests solely with the proponent to submit its Proposal to the email indicated in the Request for Proposal on or before the Submission Deadline. The Owner does not accept any responsibility for any proposals submitted by means other than the email listed above. Proponents making submissions near the deadline do so at their own risk due to server availability. The time for the closing will be determined according to the inbox time stamp on opencalls@mun.ca . Proposals received after the closing time based on this time stamp, will NOT be considered.

1.2 Proposals to be Submitted in Prescribed Format

Proponents should submit **One (1)** email submission as a single file in PDF format. Please note: File size cannot exceed 15 MB. Otherwise server may reject proposal submission due to size. Proposals submitted by fax, mail, courier, drop off or by any other means of delivery other than by email stated above shall not be accepted.

1.3 Amendment of Proposals

Proponents may amend their Proposals after they have been submitted if, and only if, the amendment is emailed prior to the Submission Deadline marked PROPOSAL SUBMISSION AMENDMENT followed by **VAR-610-19: ARC FLASH CONSULTING SERVICES.** Proposal revisions, changes and alterations may be made only by completing a new proposal. Previous submissions will be cancelled and the submission with the most recent date and time will be considered the final proposal.

Email inquiries and requests for clarification shall be accepted up to **seven (7) calendar days** prior to the closing time. Inquiries and requests for clarification received after this date shall not be addressed. The Strategic Procurement Office will be the only official source of information regarding this Open Call for Proposals and information from any other source shall be considered unofficial and may not be correct.

To ensure consistency and quality in the information provided to Proponents the Owner shall provide, by way of amendment to this request for proposals in the form of an addendum, any relevant information with respect to the Request for Proposal inquiries received in writing without revealing the source of those inquiries. Proponents are cautioned that it is their responsibility to ensure that they receive all information relevant to this Request for Proposal. The Owner shall not be responsible for Proponents who fail to inform themselves regarding the scope and nature of the work. The Owner shall publish all amendments on Memorial University's website at https://www.mun.ca/finance/strategic_procurement/ or current service providers: MERX: www.merx.com, Bids: www.bids.ca and PODS: www.pods.net .Proponents should check on a regular basis for Request for Proposal updates. Proponents are solely responsible for ensuring they are aware of and have complied with all amendments by proposal submission closing time**. In the event there is discrepancy between the service providers, MERX, Bids, and PODS and the https://www.mun.ca/finance/strategic_procurement/ website, the official website is https://www.mun.ca/finance/strategic_procurement**. Proponents are welcome to register their email address through opencalls@mun.ca to receive addendum notifications from Open Calls as a matter of courtesy. This does not relieve any Proponent of their responsibility to ensure all addenda has been received.

1.4 Withdrawal of Proposals

Proponents may withdraw their Proposals prior to the Submission Deadline. To withdraw a Proposal, a notice of withdrawal must be sent to the opencalls@mun.ca prior to the Submission Deadline and must be signed by an authorized representative of the Proponents. The Owner is under no obligation to return withdrawn Proposals.

1.5 Proposals Irrevocable after Submission Deadline

Proposals shall be irrevocable for a period of **60** days running from the moment that the Submission Deadline passes.

1.6 Delivery

Time is of the essence and delivery schedule(s) are legally binding. Memorial University reserves the right to assess penalties or cancel awards to Bidders who fail to meet the stated delivery or completion dates. Delivery of all materials and services must be DAP (delivered at place) or DDP (delivered duty paid (all locations) and local environs.

1.7 Signature

Memorial University, in consideration of section 11 of the Electronic Commerce Act, confirms its acceptance of electronic signatures, or other acceptable form of electronic consent, in satisfaction of the signature requirement for proposal submissions. The electronic form of signature or consent must be directly related to the relevant proposal submission at issue and must be reliable, in a manner as determined by Memorial University, for the purpose of identifying the person submitting the proposal response. By submitting a proposal under this process, the proponent confirms that the signatory has the appropriate and proper authority to bind the proponent to its submission, a confirmation upon which Memorial University relies in the processing of the proposal submission. **Proponents must complete Appendix B – Submission Form. Proposals received without Appendix B completed will be deemed non- compliant.**

1.8 Closure

In the event that the University is closed earlier than normally expected prior to a scheduled Request for Proposal closing for that day, or for the full day, the closing date for those Request for Proposal will be extended to the next business day for the University at the same time as listed originally.

1.9 Corporations Act

The Corporations Act of Newfoundland and Labrador requires that an extra-provincial company be registered before it begins or carries on business in the Province. If your company is not registered, please apply for the appropriate forms and procedures to:

Commercial Registrations Division
Department of Government Services
PO Box 8700
St John's, NL Canada A1B 4J6
Phone: 709-729-3317, Fax: 709-729-0232
Website: http://www.gs.gov.nl.ca/registries/companies/corp_art_inc.html

[End of Part 1]

PART 2 – EVALUATION AND AWARD

2.1 Stages of Evaluation

The Owner will conduct the evaluation of Proposals in the following stages:

2.2 Stage I – Mandatory Submission Requirements

Stage I will consist of a review to determine which Proposals comply with all of the mandatory submission requirements. Proposals that do not comply with all of the mandatory submission requirements as of the Submission Deadline will, subject to the express and implied rights of the Owner, be disqualified and not evaluated further. The submission form (**Appendix B**) must be completed. Submission without **Appendix B completed will be disqualified.**

2.3 No Amendment to Forms

Other than inserting the information requested on the mandatory submission forms set out in the Request for Proposal, a Proponent may not make any changes to any of the forms. Any Proposal containing any such changes, whether on the face of the form or elsewhere in the Proposal shall be disqualified.

Stage II will consist of the following:

2.4 Mandatory Technical Requirements

The Owner will review the proposals to determine whether the mandatory technical requirements as set out in **Appendix A** been met. Proposals that do not comply with all of the mandatory technical requirements will, subject to the express and implied rights of the Owner, be disqualified and not evaluated further.

2.5 Rated Criteria

The Owner will evaluate each qualified proposal on the basis of the rated criteria set out in **Appendix C.**

2.6 Selection of Proponent

After the completion of Stage II proponents will be ranked based on their total scores, all scores from will be added together and proponents will be ranked based on their total scores. Subject to the reserved rights of the Owner, the top-ranked proponent may be selected to enter into the Agreement in accordance with the following section.

Provincial suppliers, suppliers with a place of business in Newfoundland and Labrador, will be given provincial supplier preference provision. This mandates an allowance of ten percent for provincial suppliers for all procurement below trade agreement thresholds.

Please note, the supplier preference does not apply when the estimated value of the commodity is above the trade agreement threshold shown below.

Public Body	Thresholds			
	Goods	Services	Public Works	Lease of Space
Memorial University	$139,000	$139,000	$347,400	$100,000

2.7 Notification

Notice of selection by the Owner to the preferred supplier(s) shall be in writing.

2.8 Failure to Enter into Agreement

If a preferred supplier fails to satisfy the pre-conditions of award within fifteen (15) days of notice of selection, the Owner may, without incurring any liability, proceed with the selection of another proponent and pursue all remedies available to the Owner

2.9 Payment Terms

The University's standard payment terms are net 30 days after delivery of goods, or net 15 days after successful completion of installation as applicable. In the case of services, payment terms are also net 30 days after successful completion of the service. These terms shall also apply in the case of sub-contracted items. Prepayments will not be considered unless the supplier provides an irrevocable standby letter of credit, or the supplier provides a credit reference from its banker satisfactory to the Director of Financial and Administrative Services.

[End of Part 2]

PART 3 – TERMS AND CONDITIONS OF THE OPEN CALL PROCESS

3.1 Incorporated into Proposal

All of the provisions of this Request for Proposal are deemed to be accepted by each Proponent and incorporated into each Proponents' Proposal. A Proponent who submits conditions, options, variations or contingent statements to the terms as set out in this Request for Proposal, either as part of its Proposal or after receiving notice of selection, unless otherwise indicated, may be disqualified. If a Proponent is not disqualified despite such changes or qualifications, the provisions of this Request for Proposal, including any agreement set out in will prevail over any such changes or qualifications in the Proposal.

3.2 Proponents to Follow Instructions

Proponents should structure their Proposals in accordance with the instructions in this Request for Proposal. Where information is requested in this Request for Proposal, any response made in a Proposal should reference the applicable section numbers of this Request for Proposal.

3.3 Proposals in English

All Proposals are to be in English only.

3.4 No Incorporation by Reference

The entire content of the Proponent's Proposal should be submitted in a fixed form, and the content of websites or other external documents referred to in the proponent's Proposal but not attached will not be considered to form part of its Proposal.

3.5 References and Past Performance

In the evaluation process, the Owner may include information provided by the Proponents references and may also consider the Proponents past performance or conduct on previous contracts with the Owner or other institutions.

3.6 Information in Request for Proposal Only an Estimate

The Owner and its advisers make no representation, warranty or guarantee as to the accuracy of the information contained in this Request for Proposal or issued by way of addenda. Any quantities shown or data contained in this Request for Proposal or provided by way of addenda are estimates only, and are for the sole purpose of indicating to Proponents the general scale and scope of the Deliverables. It is the Proponents' responsibility to obtain all the information necessary to prepare a Proposal in response to this Request for Proposal.

3.7 Proponents to Bear Their Own Costs

The Proponent will bear all costs associated with or incurred in the preparation and presentation of its Proposal, including, if applicable, costs incurred for interviews or demonstrations.

3.8 Proposal to be Retained by the Owner

The Owner will not return the Proposal or any accompanying documentation submitted by a Proponent.

3.9 Trade Agreements

Proponents should note that procurements falling within the scope of the Canadian Free Trade Agreement and/or the Canada-European Union Comprehensive Economic Trade Agreement are subject to those trade agreements but that the rights and obligations of the parties will be governed by the specific terms of this Request for Proposal.

3.10 No Guarantee of Volume of Work or Exclusivity of Contract

The Owner makes no guarantee of the value or volume of work to be assigned to the successful Proponent.

3.11 Proponent to Review Request for Proposal

Proponents shall promptly examine all of the documents comprising this Request for Proposal, and

(a) shall report any errors, omissions or ambiguities; and

(b) may direct questions or seek additional information

in writing by email to the Request for Proposal contact on or before the Deadline for Questions. All questions or comments submitted by Proponents by email to the Contact shall be deemed to be received once the email has entered into the contact's email inbox. No such communications are to be directed to anyone other than the Request for Proposal Contact, and the Owner shall not be responsible for any information provided by or obtained from any source other than the Request for Proposal Contact. The Owner is under no obligation to provide additional information. It is the responsibility of the Proponent to seek clarification from the Request for Proposal Contact on any matter it considers to be unclear. The Owner shall not be responsible for any misunderstanding on the part of the Proponents concerning this Request for Proposal or its process.

3.12 All New Information to Proponents by Way of Addenda

This Request for Proposal may be amended only by addendum in accordance with this section. If the Owner, for any reason, determines that it is necessary to provide additional information relating to this Request for Proposal, such information will be communicated to all Proponents by addenda. Each addendum forms an integral part of this Request for Proposal and may contain important information, including significant changes. Proponents are responsible for obtaining all addenda issued by the Owner. In the Submission Form **(Appendix B)**, Proponents shall confirm their receipt of all addenda by setting out the number of each addendum in the space provided. Proponents who **fail** to acknowledge all posted addenda will be deemed non-compliant and disqualified.

3.13 Addenda and Extension of Submission Deadline

Any addendum added within three (3) calendar days of the Request for Proposals closing (Including on closing day) will extend closing by a reasonable period to be determined by Memorial University

3.14 Verify, Clarify and Supplement

When evaluating Proposals, the Owner may request further information from the Proponent or third parties in order to verify, clarify or supplement the information provided in the Proponent's Proposal. The response received by the Owner shall, if accepted by the Owner, form an integral part of the Proponent's Proposal.

3.15 Notification to Other Proponents

In accordance with section 30 of the *Public Procurement Regulations*, once the Agreement is awarded by the Owner, the outcome of the Request for Proposal will be publicly posted at Public Procurement Agency Website.

3.16 Debriefing

Unsuccessful Proponents may request a debriefing within ten (10) business days after the award has been posted. The request must be sent in writing to the Request for Proposal Contact. The intent of the debriefing information session is to aid the Proponent in presenting a better Proposal in subsequent procurement opportunities. The debriefing process is not for the purpose of providing an opportunity to challenge the procurement process or its outcome.

3.17 Supplier Complaint Process

If a Proponent wishes to register a complaint with respect to the Request for Proposal process, it should provide it in writing and within the parameters established by section 25 of the *Public Procurement Regulations*, as amended. The notice must provide a detailed explanation of the Proponent's concerns with the procurement process or its outcome, in addition to such other information as may be required by the *Regulations.* Proponents should note that these complaint procedures are separate and distinct from any dispute resolution processes that may be provided for under applicable trade agreements. If a Proponent wishes to dispute a matter under an applicable trade agreement, the Proponent must follow the process set out in the trade agreement.

3.18 Conflict of Interest

The Owner may disqualify a Proponent for any conduct, situation or circumstances, determined by the Owner, in its sole and absolute discretion, to constitute a conflict of interest.

The Owner reserves the right to disqualify any Proponent that in the Owner's sole opinion has an actual or potential conflict of interest or an unfair advantage, or may permit the Proponent to continue and impose such terms and conditions, as the Owner in its sole discretion may require.

For the purposes of this Request for Proposal, the term "Conflict of Interest" includes, but is not limited to, any situation or circumstance where in relation to the Request for Proposal process, the Proponent has an unfair advantage or engages in conduct, directly or indirectly, that may give it an unfair advantage, including but not limited to: (i) having, or having access to, confidential information of the Owner in the preparation of its Proposal that is not available to other

Proponents, (ii) communicating with any person with a view to influencing preferred treatment in the Request for Proposal process (including but not limited to the lobbying of decision makers involved in the Request for Proposal process), or (iii) engaging in conduct that compromises, or could be seen to compromise, the integrity of the open and competitive Request for Proposal process or render that process non-competitive or unfair.

Proponents are required to disclose, to the Request for Proposal Contact, any potential or perceived conflict of interest issues prior to Request for Proposal closing date and time.

3.19 Disqualification for Prohibited Conduct

The Owner may disqualify a Proponent, rescind a notification of selection or terminate a contract subsequently entered into if the Owner determines that the Proponent has engaged in any conduct prohibited by this Request for Proposal.

3.20 Proponents Not to Communicate with Media

Proponents must not at any time directly or indirectly communicate with the media in relation to this Request for Proposal or any agreement entered into pursuant to this Request for Proposal without first obtaining the written permission of the Request for Proposal Contact.

3.21 No Lobbying

Proponents must not, in relation to this Request for Proposal or the evaluation and selection process, engage directly or indirectly in any form of political or other lobbying whatsoever to influence the selection of the successful Proponent(s).

3.22 Illegal or Unethical Conduct

Proponents must not engage in any illegal business practices, including activities such as Proposal-rigging, price-fixing, bribery, fraud, coercion or collusion must not engage in any unethical conduct, including lobbying, as described above, or other inappropriate communications; offering gifts to any employees, officers, agents, elected or appointed officials or other representatives of the Owner; deceitfulness; submitting Proposals containing misrepresentations or other misleading or inaccurate information; or any other conduct that compromises or may be seen to compromise the competitive process provided for in this Request for Proposal.

3.23 Past Performance or Past Conduct

The Owner may prohibit a supplier from participating in a procurement process based on past performance or based on inappropriate conduct in a prior procurement process, including but not limited to the following:

(a) illegal or unethical conduct as described above;

(b) the refusal of the supplier to honour submitted pricing or other commitments; or

(c) any conduct, situation or circumstance determined by the Owner, in its sole and absolute discretion, to have constituted a Conflict of Interest.

In addition, the Owner may suspend the proposal privileges of a supplier in regard to non-compliant

or substandard performance in accordance with section 26 of the *Public Procurement Regulations*.

3.24 Confidential Information of the Owner

All information provided by or obtained from the Owner in any form in connection with this Request for Proposal either before or after the issuance of this Request for Proposal:

(a) is the sole property of the Owner and must be treated as confidential;

(b) is not to be used for any purpose other than replying to this Request for Proposal and the performance of the Agreement;

(c) must not be disclosed without prior written authorization from the Owner; and

(d) must be returned by the Proponent to the Owner immediately upon the request of the Owner.

3.25 Confidential Information of Proponents

This procurement process is subject to the *Access to Information and Protection of Privacy Act, 2015* (*ATIPPA, 2015*). A Proponent must identify any information in its Proposal or any accompanying documentation supplied in confidence for which confidentiality is requested to be maintained by the Owner. The confidentiality of such information will be maintained by the Owner, except as otherwise required by law or by order of a court or tribunal. Proponents are advised that their Proposal will, as necessary, be disclosed, on a confidential basis, to advisers retained by the Owner to advise or assist with the Request for Proposal process, including the evaluation of Proposals.

The Proponent agrees that any specific information in its submission that may qualify for an exemption from disclosure under subsection 39(1) of the *ATIPPA, 2015* has been identified in its submission. If no specific information has been identified it is assumed that, in the opinion of the Proponent, there is no specific information that qualifies for an exemption under the subsection 39(1) of the *ATIPPA, 2015*.

Contracting with the Owner is a public process. Information provided through this process will be disclosed when requested under the *ATIPPA, 2015*, except where disclosure of that information is harmful to the business' interests, as set out in the three-part test in the *ATIPPA, 2015*.

Information, including the financial value of a contract resulting from this procurement process, will be publicly released as part of the award notification process, in accordance with section 30 of the *Public Procurement Regulations*.

If a Proponent has any questions about the collection and use of personal information pursuant to this Request for Proposal, questions are to be submitted to the Request for Proposal Contact. Further information relating to subsection 39(1) of the ATIPPA, 2015 is provided in guidance documents available through the Office of the Information and Privacy Commissioner at https://oipc.nl.ca/guidance/documents.

3.26 Reserved Rights of the Owner

The Owner reserves the right to:

(a) make public the names of any or all Proponents as well as Proposal price and value of contract;

(b) make changes, including substantial changes, to this Request for Proposal provided that those changes are issued by way of addendum in the manner set out in this Request for Proposal;

(c) request written clarification or the submission of supplementary written information in relation to the clarification request from any Proponent and incorporate a Proponent's response to that request for clarification into the Proponent's Proposal. This shall not be an opportunity for Proposal repair;

(d) assess a Proponent's Proposal on the basis of: (i) a financial analysis determining the actual cost of the Proposal when considering factors including quality, service, price and transition costs arising from the replacement of existing goods, services, practices, methodologies and infrastructure (howsoever originally established); and (ii) in addition to any other evaluation criteria or considerations set out in this Request for Proposal, consider any other relevant information that arises during this Request for Proposal process;

(e) waive formalities and accept Proposals that substantially comply with the requirements of this Request for Proposal;

(f) verify with any Proponent or with a third party any information set out in a Proposal;

(g) check references other than those provided by any Proponent;

(h) disqualify a Proponent, rescind a notice of selection or terminate a contract subsequently entered into if the Proponent has engaged in any conduct that breaches the process rules or otherwise compromises or may be seen to compromise the competitive process;

(i) cancel this Request for Proposal process at any stage;

(j) cancel this Request for Proposal process at any stage and issue a new Request for Proposal for the same or similar deliverables;

(k) accept any Proposal in whole or in part; or

(l) reject any or all Proposals;

and these reserved rights are in addition to any other express rights or any other rights that may be implied in the circumstances.

3.27 Limitation of Liability

By submitting a Proposal, each Proponent agrees that:

(a) neither the Owner nor any of it employees, officers, agents, elected or appointed officials,

advisors or representatives will be liable, under any circumstances, for any claim arising out of this Request for Proposal process including but not limited to costs of preparation of the Proposal, loss of profits, loss of opportunity or for any other claim; and

(b) the Proponent waives any right to or claim for any compensation of any kind whatsoever, including claims for costs of preparation of the Proposal, loss of profit or loss of opportunity by reason of the Owner's decision not to accept the Proposal submitted by the Proponent, to enter into an agreement with any other Proponent or to cancel this open call process, and the Proponent shall be deemed to have agreed to waive such right orclaim.

3.28 Governing Law and Interpretation

These Terms and Conditions of the Request for Proposal Process (Part 3):

(a) are intended to be interpreted broadly and independently (with no particular provision intended to limit the scope of any other provision);

(b) are non-exhaustive and shall not be construed as intending to limit the pre-existing rights of the Owner; and

(c) are to be governed by and construed in accordance with the laws of the Province of Newfoundland & Labrador and the federal laws of Canada applicable therein.

3.29 Facility Compliance Requirement

(a) Equipment, power tools, instruments and appliances intended for use within Memorial University's facilities must comply with all regulatory requirements related to use and/or installation in University facilities. This includes but is not limited to certification/listing by recognized agencies, Pressure Vessel Act of Newfoundland and Labrador and similar.

(b) Items provided related to this open call that receive power from the University's electrical system must be certified or listed for use within Canada by a recognized agency such as Canadian Standards Association (CSA) or Underwriter Laboratories Canada (ULC). A full list of agencies recognized by Memorial University is available upon request.

(c) Equipment, tools, instruments and appliances that generate pressure may require registration as a pressure system with the Province of Newfoundland and Labrador. Compliance with the Boiler, Pressure Vessel and Compressed Gas Regulations under the Public Safety Act of Newfoundland and Labrador and the Boiler, Pressure Vessel, and Pressure Piping Code CSA B51:19 shall be demonstrated.

The vendor is responsible for all costs associated with ensuring the system is compliant with legislative requirements and for the application and registration processes. Field certifications may be considered but all costs and efforts for such scenarios are the responsibility of the vendor.

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APPENDIX A – SPECIFICATIONS & SCOPE

Background

Memorial University is seeking a qualified Consultant for the development of short circuit and arc flash models and studies using the ETAP 20.0 software or later, for Memorial University buildings. It is estimated that a 3-year engagement will be required. Through this RFP process, a consultant will be engaged to provide the services identified herein.

The successful Proponent shall provide all engineering, modelling, analysis, reporting, training, and technical support services necessary to establish and maintain a comprehensive Master ETAP Model representing Memorial University's electrical distribution systems.

Scope of Project

The scope of work described below, which includes concurrent work by Memorial University, is based on planned/tentative dates.

The phases below reference a “master ETAP model”. Through this engagement, Memorial is also seeking the Consultant's input on the best approach for structuring the model (one file/model or linked files/models).

1. Master ETAP Model Development

1.1 The Consultant shall review all existing electrical system models provided by Memorial University and develop a comprehensive master ETAP model representing Memorial University's electrical distribution infrastructure. Memorial’s existing high voltage ETAP model is to be the basis of the master ETAP model **(See Appendix I),** with all building/ equipment models to be merged or linked. Updated Arc flash Labels are to be provided by the Consultant as additions to the master ETAP model are made throughout the engagement.

The Consultant shall evaluate and recommend the most appropriate model architecture, for example whether the electrical system should be maintained as a single integrated model or as multiple linked models.

All re-issued, converted and newly developed models shall be incorporated into the Master ETAP Model.

Note: Mount Scio Road (MTS) & Marine Institute (MI) buildings will not be merged into the Master ETAP Model, as they are standalone systems.

2. Existing Systems to be Re-Studied

2.1 Existing models have incident energy values calculated at maximum fault-clearing time. These values would be required to be re-issued utilizing the IEEE standard 2 second rule where applicable**.** Once reissued, the ETAP models shall be merged into one master ETAP model by the consultant. **(See Appendix J)**:

- HH: Henrietta Harvey
- ED: Education
- AA: Arts & Admin
- IIC: Inco Innovation exchange

- L: Library
- BR: South Campus Boiler Room
- MU: Music
- DO: Doyle House
- BA: Barnes House
- BL: Blackhall House
- HA: Hatcher House
- CU: Curtis House
- SQ: Squires House
- BU: Burke House
- DH: Dining Hall
- RO: Roth mere House
- SP: Spencer Hall
- QC: Queens College
- GH: Field Hall
- J: St Johns College
- BN: Business Building
- CF: Centrifuge Building
- K: C-Core Building
- EN: Engineering Building
- ER: Earth Science Building
- UC: University Centre

2.2 The following existing arc flash studies were completed utilizing the IEEE 2 Second rule, where applicable. It is anticipated that upstream changes made, following completion of these reports, to the high voltage model will result in changes to the building infrastructure values. The Consultant shall merge the following ETAP models into the master ETAP model **(See Appendix J):**

- GY: Guy Court
- GB: Gilbert Court
- CA: Cartier Court
- CT: Cabot Court
- BM: Baltimore Court
- PE: Physical Education
- FM: Facilities Management
- HERF: Harsh Environment Research Facility

2.3 This scope of work is available to start upon award. Following the completion of the above-mentioned scope of work, the Consultant shall prepare a report containing all study information contained in it, as well as any recommendations for system improvements or remediation. Arc flash labels for all equipment shall be provided within the report as a PDF and XLS **(See Appendix K).**

3. <u>Conversion of Arc Flash Studies from SKM & Easy Power</u>

3.1 The following buildings have arc flash studies **(See Appendix L)** that are to be converted from SKM/EasyPower to ETAP and merged into the master ETAP Model:

- ARC: Animal Research Care building (SKM)
- MI: Holyrood Marine Base (EasyPower)
- CSF: Core Science Facility (SKM)
    - Estimated additional 250 buses to be added to modeling following data collection completion.

3.2 This scope of work is available to start upon award. Following the completion of the above-mentioned scope of work, the Consultant shall prepare a report containing all study information contained in it, as well as any recommendations for system improvements or remediation. Arc flash labels for all equipment shall be provided within the report as a PDF and XLS **(See Appendix K).**

4. Arc Flash Studies

4.1 Consultant to complete ETAP Models & furnish an Arc Flash Study for the following buildings (SLD's to be provided to Consultant by MUN). MUN shall provide all information on the distribution equipment and transformers, exact size and lengths of the feeders & breaker model numbers for all feeders in Excel format upon completion of data collection. The information required for the buildings mentioned below shall be collected by MUN and available for the Consultant throughout the 3-year engagement. MUN will provide the short circuit information for the main incoming service to the building. MUN will provide all building floor plans in PDF Format **(See Appendix M):**

- CH: Child Care (Estimated 50 Bus count)
- EX: East Tower (Estimated 150 Bus count)
- WX: West Tower (Estimated 150 Bus count)
- GLC: Global Learning Centre (Estimated 75 Bus count)
- FH: Field House (Estimated 250 Bus count)
- CP: Chemistry Physics (Estimated 500 Bus Count)
- HSC/HV: Health Science Complex 12.5kv distribution system (Estimated 250 Bus count)
- FOM: Faculty of Medicine (Estimated 250 Bus count)
- UA: Utilities annex building (Estimated 500 Bus Count)
- MTS: Vivarium (Estimated 75 Bus Count)
- MTS: Research Labs (Estimated 50 Bus Count)
- MTS: Incinerator Building (Estimated 50 Bus Count)
- MTS: Interpretative Centre (Estimated 50 Bus Count)
- MTS: Food Pilot (Estimated 50 Bus Count)
- MTS: Various (Caretakers, Greenhouses, Barn Carriage houses) (Estimated 50 Bus Count)
- MI: Fox trap base (Estimated 50 Bus Count)

4.2 Consultant to merge the above noted ETAP models with the master ETAP Model.

4.3 Following the completion of each building, the Consultant shall prepare a report with all the study information contained in it, as well as any recommendations for system improvements or remediation. Arc flash labels for all equipment shall be provided within the report as a PDF and XLS **(See Appendix K).**

5. Additional Modeling Allowance

5.1 The Consultant is to provide pricing for the modeling of 1000 additional Buses to be used at the owner's direction. This allowance is to be used if the actual bus count per building exceeds the estimated bus count per building, upon completion of data collection. This Allowance shall include all costs associated with integration with the associated model, including but not limited to:

- ETAP Modeling

- Arc Flash Calculations
- Short circuit coordination
- Request For Information (RFI)

6. ETAP Modeling Training & Support

6.1 Three (3) days of Baseline ETAP training for member's of Memorial's facilities management team. Training to include;

- General overview and usage of ETAP
- Integration of new Buildings to the master ETAP model
- Integration of new electrical equipment (Small Model) to the Master ETAP model.
- Replacement of existing infrastructure to the master ETAP model.
- Additions of existing infrastructure to the master ETAP model.

6.2 Following the completion and implementation of the ETAP model, the Consultant is to allow for two remote follow-up calls with Memorial to address troubles or questions during the first 3 months of MUN using the model. An allowance of 3 hours per call should be anticipated.

Additional consulting and/or contract administration services may be required and will be provided on a per-diem basis. Please submit a schedule of rates with your proposal.

Form of Agreement

The form of agreement can be found in **Appendix G – Department of Facilities Management Consultants Services Agreement** of this document.

Prime Consultant's Summary of Services

Table 1: Scope of Services Summary summarizes and amends the Scope of Services for the engagement:

TABLE 1: SCOPE OF SERVICES SUMMARY

Section		Included
3.1	General Principles	☐
3.2	Additional Services	☒
3.3	Work Schedule	☒
3.4	Cost Control	☐
3.5	Sub-Consultants	☒
3.6	Functional Programming Development and Advisory Services	☒
3.7	Concept Design (Includes Schematics)	☐
3.8	Design Development	☒
3.9	Construction Contract Documents	☐
3.10	Bidding and Construction Contract Award	☐
3.11	Construction Contract Administration	☐
3.12	Resident Supervision (Additional Services)	☐
3.13	Insurance	☒
Conditions/Amendments		
3.8	Class C estimate to be removed from scope	

Deliverables

See *Table 4: Scope of Services Deliverables Acknowledgement* in **Appendix B – Submission Form**.

Concept Parameters

As described but not limited to the following:

1. Develop in accordance with current building design and code standards, including, but not limited to:

    A. National Building Code
    B. Barrier Free Access
    C. Life Safety
    D. Canadian Electrical Code

2. All existing Memorial University standards to be reviewed and incorporated into the design package where applicable, including but not limited to:

    A. Memorial University Point Naming Conventions (Honeywell EBI)
    B. Memorial University Electrical Panel Color Code Panels
    C. Facilities Management Color Pallet Standard
    D. Memorial University Title Blocks (AutoCAD)
    E. Memorial University Interior Signage Manual 1.0
    F. MUNet Specification (Communications)
    G. Zero Energy Isolation Program

Above documents/templates will be made available to the successful Proponent after contract award, unless requested otherwise;

3. All existing reports to be reviewed and incorporated into the design where necessary, including but not limited to:

    A. Existing building Arc Flash Studies
    B. Memorial Electrical Safety Program
    C. Memorial Zero Energy Isolation Program

4. If available, all existing as-built drawings (in .dwg format) will be made available to the successful Proponent upon request;

APPENDIX B – SUBMISSION FORM

Proponent's Information

Please complete *Table 2: Proponent's Information*:

TABLE 2: PROPONENT'S INFORMATION

Please fill out the following form, naming one person to be the Proponent's contact for the Open Call process and for any clarifications or communication that might be necessary	
Full Legal Name of Proponent:	
Any Other Relevant Name under which Proponent Carries on Business:	
Street Address:	
City, Province/State:	
Postal Code:	
Phone Number:	
Company Website (if any):	
Proponent's Contact Name and Title:	
Proponent's Contact Phone:	
Proponent's Contact Email:	

Offer

The Proponent has carefully examined the Open Call documents and has a clear and comprehensive knowledge of the Deliverables required under the RFP. By submitting a Proposal, the Proponent agrees and consents to the terms, conditions and provisions of the RFP, including the Form of Agreement, and offers to provide the Deliverables in accordance therewith at the rates set out in the pricing section.

Rates

The Proponent has submitted its rates in accordance with the instructions in the RFP. The Proponent confirms that it has factored all the provisions of **Appendix A – Specifications & Scope**, including insurance and indemnity requirements, into its pricing assumptions and calculations.

Addenda

The Proponent is deemed to have read and accepted all addenda issued by the Owner. The onus is on Proponents to make any necessary amendments to their Proposals based on the addenda. The Proponent is required to confirm that it has received all addenda by listing the addenda numbers in *Table 3: Addenda Received*: **(For example, if Addendum**

1 has been issued, enter 1 in the table, if there are two addenda, enter 1,2.)

NOTE: FAILURE TO COMPLETE TABLE 3 BELOW SHALL RESULT IN BID DISQUALIFICATION:

TABLE 3: ADDENDA RECEIVED

Addenda Number(s)

Proponents who fail to complete this section will be deemed to have not received all posted addenda and shall be deemed **NON-COMPLIANT**.

Deliverables

Memorial University is seeking a team to help in establishing the items listed in *Table 4: Scope of Services Deliverables Acknowledgement*. Please initial next to each item in Table 4 to acknowledge its inclusion in the Proponent's proposal:

NOTE: FAILURE TO COMPLETE TABLE 4 BELOW SHALL RESULT IN BID DISQUALIFICATION:

TABLE 4: SCOPE OF SERVICES DELIVERABLES ACKNOLEDGEMENT

Section (See Appendix A)	Item Description	Proponent Initials
1	Master ETAP Model Development	
2	Existing Systems to be Re-Studied	
3	Conversion of Arc Flash Studies from SKM & Easy Power	
4	Arc Flash Studies	
5	Additional Modeling Allowance	
6	ETAP Modeling Training & Support	

* Includes but not limited to the items listed above, full scope as described in the RFP documents

No Prohibited Conduct

The Proponent declares that it has not engaged in any conduct prohibited by this RFP.

Disclosure of Information

The Proponent hereby agrees that any information provided in this Proposal, even if it is identified as being supplied in confidence, may be disclosed where required by law or by order of a court or tribunal. The Proponent hereby consents to the disclosure, on a

confidential basis, of this Proposal by the Owner to the advisers retained by the Owner to advise or assist with the RFP process, including with respect to the evaluation of this Proposal.

Proposal Irrevocable

The Proponent agrees that its proposal shall be irrevocable for a period of 60 Days following the submission deadline.

Required Signatures

Failure to submit this signature section will render the Proposal **NON-COMPLIANT** and the Proposal will be disqualified.

Signature of Proponent's Representative

Name of Proponent's Representative

Title of Proponent's Representative

Date

I have the authority to bind the Proponent

IN SIGNING THIS PAGE AND SUBMITTING YOUR PROPOSAL, THE PROPONENT ACKNOWLEDGES HAVING READ AND UNDERSTOOD AND AGREED TO THE TERMS AND CONDITIONS OF THIS DOCUMENT.

APPENDIX C – PROPOSAL EVALUATION & RATED CRITERIA

Proposal Evaluation

Proposals will be evaluated by the Owners' RFP Evaluation Committee. The Committee will first evaluate and score each firm's Technical Proposal using the criteria as outlined in Appendix C. Upon completion of the Technical Proposal evaluations, the Price Proposals will be opened and scored. All Proposals will then be ranked based upon the Technical and Price Proposal combined score, the Total Score, with the highest scoring Proposal being considered for award.

Proponents who do not meet a minimum technical threshold score of **48** Points will not proceed to the price evaluation stage of the evaluation process.

Evaluation Criteria and Weighting

The following sets out the categories, weightings and descriptions of the rated criteria of the RFP.

TABLE 5: RATED CRITERIA

Rated Criteria Category	Weighting (Points)
Lead Designer/Project Team	15
Past Technical Experience	20
Understanding of Scope	25
Technical Score	**60**
Price Proposal	**40**
Total Score	**100**

Experience and Qualifications

Each Proponent should provide the following in its proposal:

1. A brief description of the Proponent;

2. A description of its knowledge, skills and experience relevant to the Deliverables;

3. The roles and responsibilities of the Proponent and any of its agents, employees and sub-contractors who will be involved in providing the Deliverables, together with the identity of those who will be performing those roles and their relevant respective expertise.

There is no maximum page number allotment for Proposal submittals though the Proposal shall not exceed the file size limits as stated in **Appendix D**.

Technical Proposal Evaluation

Technical proposal submissions will be evaluated based on the following qualification criteria, which should be highlighted by the submission:

1. **Lead Designer/Project Team**: The balance of the Project Team should be made up of those individuals and/or firms which have been identified by the Prime Consultant as providing value and technical skills required to deliver per the understanding of the scope of work. Each of the sub-consultants within the design team must provide a brief description of their company, its history, size, organizational structure, range of expertise, past projects and past working relationships with the design team, as well as those individuals to be utilized for this project. Provide an organizational chart explaining the overall prime/sub-consultants' relationships, the lead designer, the quality assurance system, the discipline leaders and other key design personnel within each discipline. The lead designer may be replaced during the course of the project, by agreement with Memorial University, as to the qualifications of the proposed replacement lead designer. The lead designer is expected to attend all meetings and is required to review all correspondence and approved submissions.

   It is recognized that certain key personnel and skill sets may be required from firms or individuals located outside of the province, and all staff should define their primary physical location in their submission;

2. **Past Technical Experience**: The Proponent should highlight their technical skill and experience designing and delivering Arc Flash Coordination Studies of similar complexity and duration using ETAP software completed within the past five years, on projects of a similar scale. As well as the system design configurations, with an emphasis on operating infrastructure, should be outlined. In cases where the firm did not act as the prime consultant, the Proponent should specifically identify their role and proportionate involvement. (i.e. Electrical was 25% of $5M project construction value.). Projects referenced are to be relevant to the proposed team members included in the Proposal;

3. **Understanding of Scope**: The Proponent should attempt to interpret the scope of work as it has been provided and, in their own words, provide an overview of the goals and methodologies of the project. The Proponent must have a clear and concise understanding of the objectives of the project which will be demonstrated by providing a review of the conceptual methodology and highlight or expand upon the solution or provide an alternate approach. The solution should introduce as low a risk as possible to Memorial University's operations and utilities while providing the highest value.

   The response should indicate any positive or negative risks, potential mitigation measures, or alternative approaches that reflect their value added to the undertaking.

4. **Price Proposal:** Pricing is scored using a relative pricing formula based on the rates set out in Appendix E – Pricing Form. Each Proponent will receive a percentage of the total possible points allocated to price in accordance with the following formula:

Lowest Price ÷ Proponent's Price X Weighting = Proponent's Evaluation Points

Evaluation Committee

Members of the Evaluation Committee (or their designate) are as follows:

1. Manager, Minor Capital Projects (Facilities Management)
2. Project Coordinator, Minor Capital Projects (Facilities Management)
3. Manager, Electrical Systems (Facilities Management)
4. Representative, Electrical Shop (Facilities Management)

Committee members will review the Technical Proposals individually prior to meeting as a group to discuss and score the Technical Proposals as per the rated criteria as described in Appendix C and throughout the RFP.

Interview Request

The Owner may, at its discretion, short list Proponents to participate in a 30 minute interview and/or presentation.

APPENDIX D – PROPOSAL PARTICULARS

Negotiations

Memorial University reserves the right to conduct negotiations with more than one vendor simultaneously.

Proposal Submission

Proponents should submit **One (1)** email submission, with the subject as stated on the RFP cover page, containing **two** separate PDF attachments titled as per the below:

1. VAR-610-19 ARC Flash Coordination Studies RFP Response (Company Name)

2. VAR-610-19 ARC Flash Coordination Studies RFP Fee Schedule (Company Name)

Please note: File size cannot exceed 15 MB. Otherwise, server may reject proposal submission due to size. Proposals submitted by fax, mail, courier, drop off or by any other means of delivery other than by email stated above shall not be accepted.

Fee Proposal

Submissions of fees should be broken down into:

1. ***Scope of Services*:**

   Lump sum (maximum upset) fee for all services included in Table 1: Scope of Services Summary (**see Appendix A**), including that of any sub-consultants;

2. **Expenses**:

   Expenses will be paid as a disbursement at cost with per diems for meals. Backup for travels costs is required to be submitted with expense claims. Proponents should provide an estimate of anticipated travel expenses as a separate line item of the fee proposal. Additional information can be found in **Appendix G**;

Include in the fee proposal for the completed Pricing Form (**Appendix E**).

Submit a schedule of per diem rates for additional design and/or contract administration services.

Fees submitted for this work are to be calculated in accordance with the respective fees schedules (where applicable) for associations which may govern the discipline. Where such schedules are used, their source should be identified.

Proposal Award

The successful proponent will enter into good faith negotiations with the Owner towards the conclusion of a Consultant's Agreement in a form acceptable to the Owner. The Owner attaches a copy of its Prime Consultant's Summary of Services **(see Appendix A)**, and the Consultant's Services Agreement **(see Appendix G)**, to be executed.

APPENDIX E – PRICING FORM

Instructions on How to Complete the Pricing Form

Rates must be provided in Canadian funds, inclusive of all applicable duties and taxes except for HST, which should be itemized separately.

Rates quoted by the Proponent must be all-inclusive and must include all labour and material costs, all travel and carriage costs, all insurance costs, all costs of delivery, and all other overhead, including any fees or other charges required by law.

Please complete *Table 6: Pricing Form*:

TABLE 6: PRICING FORM

Item	Service (See Appendix A)	Fee
A	Master ETAP Model Development	
B	Existing Systems to be Re-Studied	
C	Conversion of Arc Flash Studies from SKM & Easy Power	
D	Arc Flash Studies	
E	Additional Modeling Allowance	
F	ETAP Modeling Training & Support	
G	**EXPECTED TOTAL FEE [A+B+C+D+E+F] (Excludes HST)**	

The price evaluated shall be based upon line G of the Pricing Form.

APPENDIX F – UNIT RATES

USE TO OBTAIN UNIT PRICING FOR ADDITIONAL WORK AND CREDITS

Hereunder is a Unit Price Table that will be used for both credits and additional services as directed by the Owner's Representative. The value of any credits or additional work authorized by and measured with the Owner's Representative shall be multiplied by the stated unit prices to determine the value of any credits or additional work performed.

Item No.	Tender Item	Unit	Unit Price (HST Excluded)
1	Senior Engineer	Hourly Rate	
2	Junior Engineer	Hourly Rate	
3	Designer	Hourly Rate	
		Total:	

APPENDIX G – DEPARTMENT OF FACILITIES MANAGEMENT CONSULTANT'S SERVICES AGREEMENT TERMS & CONDITIONS

DEPARTMENT OF FACILITIES MANAGEMENT
CONSULTANT'S SERVICES AGREEMENT

TERMS AND CONDITIONS

INDEX OF APPENDIX 1 - TERMS AND CONDITIONS

1. DEFINITIONS
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13. WARRANTY AND INDEMNITY
14. AGREEMENT

1. DEFINITIONS

1.1 "Addenda and Clarifications", if used, has the meaning ascribed on the Cover Pages hereof.

1.2 "Agreement" means this Services Agreement entered into between the Owner and the Consultant and consisting of the following:

(a) The executed Cover Pages;

(b) The Terms and Condition attached to the Cover Pages in this Appendix 1, as may be amended, supplemented or restated in writing signed by the Parties from time to time;

(c) The Request for Proposals including all Addenda and Clarifications, if any, attached in Appendix 2;

(d) The Consultant Proposal attached in Appendix 3;

(e) The Protection of Privacy Requirements attached in Appendix 4;

(f) Initial Services Schedule attached in Appendix 5, if applicable;

(g) Applicable Reimbursement Requirements attached in Appendix 6;

(h) University Guidelines, Policies and Specifications included on the Cover Pages hereof.

1.3 "Approved Construction Cost Budget" means from time to time the latest budget for construction of the Project which has been approved in writing by the Owner, whether that be a Class D (+/- 20%), C (+/- 15%), B (+/- 10%) or A (+/- 5%) budget estimate.

1.4 "Consultant" has the meaning ascribed on the Cover Pages hereof.

1.5 "Consultant Proposal" has the meaning ascribed on the Cover Pages hereof.

1.6 "Contractor" means the person(s), firm(s) or corporation(s) contracting with the Owner to provide labour, materials and equipment for the execution of the Project.

1.7 "Contract" is the agreement between the Owner and the Contractor for the provision of the labour, materials and equipment for the execution of the Project by the Contractor.

1.8 "Contract Documents" consists of the executed agreement between the Owner and the Contractor, the general conditions of the Contract, the drawings and such other documents as are identified in the Contract and the general conditions as constituting part of the Contract Documents.

1.9 "Cover Pages" has the meaning ascribed on the Cover Pages hereof.

1.10 "Deliverables" shall include, where applicable, but are not limited to:

(a) Land survey data and reports;

(b) Geotechnical surveys, data and reports;

(c) Fire and Life Safety code review documents;

(d) National Building Code of Canada long form and backup documentation for submission;

(e) Copies of (a) submissions made by the Consultant, and (b) materials used or prepared by the Consultant for submissions to be made by the Owner to the Government Services Centre of the Department of Service NL or the applicable department of the Government of Newfoundland and Labrador in respect of permits and accessibility;

(f) 33% drawings, 66% drawings and specifications and 99% drawings and specifications;

(g) Class "D", "C", "B" and "A" Estimates;

(h) Issued for tender drawings and specifications;

(i) Issued for constructions drawings and specifications;

(j) Cost and schedule forecasting reports;

(k) Commissioning Plan;

(l) Substantial Performance Certificate;

(m) Total Performance Certificate;

(n) As-built drawings;

(o) Samples, models, mock-ups and renderings;

(p) Operations and maintenance manuals;

(q) Building Information Management (BIM) models;

(r) Shop drawings;

(d) Testing reports and inspections;

(t) Correspondence with contractors;

(u) Requests for information, contemplated change notices, change orders and all similar documents and associated drawings and supporting documentation;

(v) Meeting minutes;

(w) Inspection forms and notes (written or digital) and inspections shall use Uniformat;

(x) Substantial performance inspection report complete with valuation of deficiencies;

(y) Pre-warranty expiry inspection report complete with valuation of repairs/corrections; and

(z) Specified Deliverables identified on the Cover Pages hereof.

1.11 "Holdback" means an amount equal to 10% of a payment due to the Consultant plus any Liens.

1.12 "Fee" has the meaning ascribed to that term on the Cover Pages hereof.

1.13 "Liens" means all amounts claimed by any person(s) pursuant to the Mechanics' Lien Act of which the Owner has notice and any other lien.

1.14 "Losses" means collectively any and all manner of action and actions, cause and causes of action, proceedings, suits, debts, duties, liabilities, rights, sums of money, accounts, controversies, losses, penalties, damages, costs, agreements, promises, contracts, claims or demands of any type or nature whatsoever by any person including, without limitation, third parties, directors, officers, employees, servants and agents of any party, under the laws of all jurisdictions in contract, tort, by statute or otherwise and in law or in equity, whether known or unknown, suspected or unsuspected, conditional or unconditional, matured or unmatured, liquidated or unliquidated, fixed or contingent.

1.15 "Mechanics' Lien Act" means *Mechanics' Lien Act*, RSNL 1990 c. M-3, as amended (or any successor or replacement legislation).

1.16 "Owner" means Memorial University of Newfoundland.

1.17 "Party" or "Parties" means a party to this Agreement.

1.18 "Project" (i) if used, has the meaning ascribed on the Cover Pages hereof, or (ii) if "Project" is not defined on the Cover Pages, Project shall mean the Services.

1.19 "Request for Proposals" has the meaning ascribed on the Cover Pages hereof.

1.20 "RFP" means the Request for Proposals and any Addenda and Clarifications thereto.

1.21 "Reimbursement Requirements" means the requirements for the reimbursement of external consultants for expenses attached as Appendix 6.

1.22 "Services" means the provision and the execution of those Services for which the Consultant has been engaged by the Owner, as detailed on the Cover Pages hereof and set out throughout this Agreement.

1.23 "Specified Deliverables" has the meaning ascribed to such term on the Cover Pages hereof.

1.24 "Substantial Performance" has the meaning ascribed to that term in Section 2 of the Mechanics' Lien Act.

1.25 "Substantial Performance Certificate" means the certificate prepared by the Consultant certifying Substantial Performance by the Contractor.

1.26 "Total Performance" means, as the context requires, (i) the entire construction to be performed by the Contractor under the Contract Documents has been completed and is so certified by the Consultant, or (ii) the completion of all Services by the Consultant under this Agreement and is so certified by the Owner.

1.27 "Total Performance Certificate" means, as the context requires, (i) the certificate prepared by the Consultant and signed by the Owner and Contractor certifying Total Performance by the Contractor, or (ii) the certificate prepared by the Owner certifying Total Performance by the Consultant.

1.28 "University Guidelines, Policies and Specifications", if used, has the meaning ascribed on the Cover Pages hereof.

1.29 "Warranty Period" has the meaning ascribed to that term in Section 13.2.

2. THE OWNER'S RESPONSIBILITIES

2.1 Site Survey Information

If applicable to the services provided by the Consultant, the Consultant shall procure an accurate survey of the Contract site as necessary to perform the Work. The provision of such survey shall be an Additional Service (as defined below); however, no fee shall be charged by the Consultant for time spent by the Consultant, but all disbursements related to such survey shall be reimbursed by the Owner. The Owner shall furnish all relevant information in its possession for such purpose. The Owner agrees that the survey requirement does not require the Consultant to provide a legal real property survey.

If site survey required, the site survey will include all information required for the setting out of the Project, existing grades and lines of streets, pavements, curbs, sidewalks, manholes, catch basins, invert elevations, location of all underground sanitary sewer, storm sewer and water supply pipelines, above and underground electrical and other public utilities, adjoining properties, existing buildings and other structures, restrictions, easements, boundaries and topography of/or affecting the Contract site.

If site survey required, it shall be the Consultant's responsibility to ensure that all necessary data concerning the site conditions will be supplied by the surveyor.

The responsibility of data accuracy remains with the surveyor.

2.2 Soils Survey Information

If applicable to the Services provided by the Consultant, the Owner shall furnish all relevant soils survey information in its possession for review by the Consultant, and it shall be the Consultant's responsibility to determine if all necessary information is contained in such soil survey information and whether such soil survey information is sufficient and appropriate for the performance of the Work. Should the Consultant determine that additional soil survey information is required, it shall advise the Owner of the need for such additional information and the procurement of such shall be subject to the Owner's prior written approval. If the Owner determines that such additional information is required, the Consultant and the Owner, both acting reasonably, shall agree on the soils survey information required and the appropriate party to procure such additional soils survey. If the Consultant procures any such additional soils survey, such soils survey shall be an Additional Service (as defined below); however, no fee shall be charged by the Consultant for time spent by the Consultant, but all disbursements related to such soils survey shall be reimbursed by the Owner. If soil survey required, it shall be the Consultant's responsibility to determine that all of the necessary information is supplied by the soils consultant.

The responsibility of data accuracy remains with the soils consultant.

2.3 Owner's Decision

The Owner shall give due consideration to all sketches, drawings, specifications, tenders, proposals, contracts and other documents laid before the Owner by the Consultant, and wherever prompt action is necessary, the Owner shall inform the Consultant of its decisions in such reasonable time as not to delay the Services.

2.4 Owner's Representative

The Owner shall appoint an individual or individuals with decision-making authority and identified as such on the Cover Pages hereof as its official representative(s) for the term of this Agreement. Only the official representatives identified in the Cover Pages shall have the authority to resolve on behalf of the Owner all matters that may arise during the performance of the Services.

If the Owner engages a third party agent, the Owner will advise the Consultant in writing of such appointment and of the level of authority such third party agent has for and on behalf of the Owner.

3. CONSULTANT'S SERVICES

3.1 General Principles

The Consultant agrees to provide the Services as indicated on the Cover Pages and as required by the RFP. The Services shall be performed for the Fee. The Consultant agrees that the hourly rates set forth in the Consultant Proposal shall apply for the duration of the Services.

Throughout the provision of the Services, the Consultant shall provide the Owner with all Deliverables applicable to the Services, at such time as each such Delivery becomes available. All deliverables including drawings, operation and maintenance manuals, shop drawings, as-builts and subconsultant reports must be submitted in electronic format acceptable to the Owner at its sole discretion. Original, editable and workable file formats should be preserved and delivered to the Owner where possible. Acceptability of PDF files will be at the sole discretion of the Owner.

3.2 Additional Services

The Consultant shall also provide additional services as may be required from time to time by the Owner in writing (the "Additional Services").

This Agreement, including Article 8. FEES and Section 8.2 Additional Services, shall apply to the Additional Services. For greater certainty, reference in this Agreement to "Services" shall include any Additional Services.

3.3 Work Schedule

The agreed timeline for the performance of the Services by the Consultant is attached as Appendix 5 (the "Initial Services Schedule") which shall be updated by the Consultant within fourteen (14) days of the date hereof to include the detail required by the Owner (the "Updated Services Schedule"). The Updated Services Schedule and the Initial Services Schedule shall be referenced in this Agreement collectively as the "Services Schedule".

The Consultant shall perform the Services in accordance with the Services Schedule.

Where Work Schedule is indicated on the Cover Pages or in the RFP as one of the Services provided by the Consultant, the Consultant will:

(a) Ensure that Project meetings with other Consultants, sub-consultants and suppliers are called and held when necessary and attend all such meetings. In addition, the Consultant shall keep minutes at all such meetings and forward to the Owner within seven (7) days. Such meetings shall be held not less than once a month and notification by the Consultant shall be given not less than one (1) week in advance;

(b) Prepare and issue instructional drawings as may be necessary for the proper execution of the Project; and

(c) If applicable, undertake all other scheduling matters related to the Services that are identified in Section 3.11.

3.4 Cost Control

Where Cost Control is indicated on the Cover Pages or in the RFP as one of the Services provided by the Consultant, the Consultant shall provide such Services in accordance with this Section 3.4.

The Consultant will adhere to the Approved Construction Cost Budget throughout all stages of the Project.

If at any time the Consultant considers its estimates indicate cost which exceed the Approved Construction Cost Budget limits, the Consultant will immediately advise the Owner. If, in the opinion of the Owner, the excess is due to design cost factors or matters under the control or reasonably foreseeable by the Consultant, the Owner may require the Consultant, at its expense and at no

additional cost to the Owner, forthwith to do everything by way of revision of design to bring the cost estimate within the Approved Construction Cost Budget limits.

If the lowest qualified and acceptable tender for the Project or any part or phase for which the Consultant has prepared the design(s) or estimate(s) exceeds the Approved Construction Cost Budget for reasons which, in the opinion of the Owner, the Consultant should have foreseen and could have guarded against, the Consultant, at its own expense and at no additional cost to the Owner, will, if required by the Owner, do everything necessary including redesign to bring the cost of the tendered work within the Approved Construction Cost Budget limits.

Cost control will culminate by adherence to the Approved Construction Cost Budget in the preparation of the final working drawings and specification. This is to be substantiated by a final, Class 'A' elemental cost analysis prepared by the Consultant and presented to the Owner with the final tender documents.

Any rework or redesign or revisions required by this Section shall not derogate from or in any way amend the Consultant's obligation to perform in accordance with the Work Schedule.

3.5 Sub-consultants

The Consultant acknowledges and agrees that it is taking full responsibility for the performance of this Agreement and that the Owner shall not be required to deal directly with any of the Consultant's sub-consultants. The Consultant shall not assign this Agreement or subcontract the whole or any part of the Services without the prior written consent of the Owner.

If the Owner consents in writing to the sub-contracting of the whole or any part of the Services, the terms of this Agreement shall apply to the sub-contract and the sub-consultant *mutatis mutandis*. The assignment of this Agreement, or the subcontracting of any Services, shall not relieve Consultant of its obligations under this Agreement.

The Consultant shall pay any permitted sub-consultants out of the Fee and no additional amounts shall be payable by the Owner to the Consultant or any sub-consultant for Services provided by sub-consultant.

3.6 Functional Program Development and Advisory Services

Where Functional Program Development and Advisory Services are indicated on the Cover Pages or in the RFP as one of the Services provided by the Consultant, the Consultant shall:

(a) Prepare a functional program for the Project to examine and define the Owner's needs and objectives for the Project and establish criteria for evaluating potential design solutions or strategic alternatives;

(b) Identify, research and observe, as part of the functional program process:

(i) The users of the proposed Project and their work activities (including, without limitation, function-by-function, room-by-room, or department-by-department activity plans, staffing plans and storage requirements);

(ii) The volume of activity planned for Project components (including, without limitation, throughput and flow patterns);

(iii) The planning impacts of the Project on local infrastructure;

(iv) The social impact of the program on the community; and

(v) The impact of the Project's occupants and processes on the built environment.

(c) Prepare a functional program report, including, without limitation:

(i) The Owner's philosophy, value, goals and image;

(ii) Site requirements (such as parking, circulation, orientation);

(iii) Explicit space requirements;

(iv) Financial requirements and a preliminary budget;

(v) Scheduling and time frame for the project;

(vi) Other requirements relating to regulatory issues, authorities, community goals/concerns, or ecological or environmental concerns, as applicable; and

(vii) A recommended construction project delivery method.

3.7 Concept Design (includes Schematics)

Where Concept Design is indicated on the Cover Pages or in the RFP as one of the Services provided by the Consultant, the Consultant shall provide such Services in accordance with this Section 3.7.

The Consultant shall investigate and review the RFP and all of the available documentation referenced therein and prepare schematic design studies consisting of drawings and other documents setting forth the general concept and functional requirements of the Project, identifying the fire and life safety and code issues and identifying the design criteria for the various systems.

These studies shall be summarized with recommendations in a concept/schematic design report to the Owner. Such a report shall include a Class 'D' budget and planning time schedule.

3.8 Design Development

Where Design Development is indicated on the Cover Pages or in the RFP as one of the Services provided by the Consultant, the Consultant shall provide such Services in accordance with this Section 3.8.

Upon the Owner's selection of a definite scheme, the Consultant shall develop preliminary drawings and outline specifications which shall clearly define the design concept in terms of siting, functional planning, layouts, elevations, appearance and character, construction and materials as well as structural, mechanical and electrical systems.

Upon completion of the preliminary functional plans and routine specification, the Consultant will provide the Owner with a Class 'C' elemental cost estimate. An Approved Construction Cost Budget for future expenditure on the Project will be developed by the Consultant and based on this estimate and provided to the Owner for its review and approval in writing if acceptable.

The Consultant will prepare from the foregoing a "Design Development Package" and will submit five (5) copies to the Owner for approval in writing.

3.9 Construction Contract Documents

Where Construction Contract Documents is indicated on the Cover Pages or in the RFP as one of the Services provided by the Consultant, the Consultant shall provide such Services in accordance with this Section 3.9.

The Consultant shall not proceed to prepare construction Contract Documents until it has received written authorization from the Owner. Upon receipt of the Owner's written notification to proceed, the Consultant shall prepare working drawings and specifications providing details required for tendering, construction and completion of the Project.

The Consultant shall keep the Owner informed, at all times, of any conditions or changes affecting the general process, the schedule or the cost of the Project and provide progress drawings when requested.

The Consultant shall find solutions and make all changes to ensure completion of the Project within the requirements of the Approved Construction Cost Budget and as expressed in this Agreement.

The Consultant shall submit 90% complete Contract Documents with a Class 'B' estimate to the Owner for review.

Space layouts will be prepared for all areas, based on the University Space Standards and Guidelines.

The Consultant shall submit to the Owner, for its written approval, the final working drawings and specifications and the pre-tender report which shall include the Consultant's final, Class 'A' estimate, all desirable applications for review of drawings by governmental and regulatory agencies, as well as all other items customarily included in a pre-tender report.

3.10 Bidding and Construction Contract Award

Where Bidding and Construction Contract Award is indicated on the Cover Pages or in the RFP as one of the Services provided by the Consultant, the Consultant shall provide such Services in accordance with this Section 3.10.

The Consultant will prepare a draft of the tender call documents in accordance with the Owner's requirements, including without limitation instructions to bidders and general conditions. The Owner will provide the form of contract which is to be included as the Contract with the tender call documents.

The Consultant shall provide a draft of the tender call documents to the Owner for approval in writing. The Owner will advertise the tender call for the Project and will convene and administer a tender opening board.

The Consultant will provide the Owner with up to five (5) sets of plans and specifications for up to four (4) tender packages which are included within the Fee. Any required reproductions above this amount will be reimbursed by the Owner at cost. The Consultant will dispense plans and specifications and addenda thereto and will administer the Project during the tender period. The Consultant will prepare such addenda as is necessary during the tender period. The Consultant will advise the Owner on all requests for "alternate approvals" of equipment and materials.

Addenda to the tender call documents will be issued by the Consultant to reach bidders prior to the tender closing.

The Consultant will analyse the bids received from all bidders in response to the tender call and provide the Owner with a written recommendation based on its review within one (1) week of the tender opening.

It shall remain within the Owner's discretion to either accept or reject a bid.

3.11 Construction Contract Administration

Where Construction Contract Administration is indicated on the Cover Pages or in the RFP as one of the Services provided by the Consultant, the Consultant shall:

(a) Provide for the administration and supervision of the Contract in the Consultant's office and at the location of the Project (the "Contract Site");

(b) Keep detailed records of all aspects of the Project relating to the administration and supervision of the Project;

(c) Prepare, within two (2) weeks prior to tender call, detailed administrative instructions to be submitted to the Owner for approval. Such administrative instructions, when approved in writing by the Owner, will be issued by the Consultant to all persons required to follow or be aware of such administrative instructions, and such procedures will be followed by such persons until the completion of the Project. The procedures will cover, but will not necessarily be limited to, correspondence, progress claims, final acceptance certificates, job meetings, as built drawings, etc.;

(d) Provide general review and inspection of the Project to determine that its construction is in accordance with the working drawings and specifications. Such general review shall require that:

(i) The Consultant must have on its staff suitable and experienced field supervisory personnel who will be designated as responsible for the contract administration of the Project. Such staff will be subject to the prior written approval of the Owner;

(ii) The Consultant's designated field representatives shall make regular visits to the Contract Site to determine if the Project is proceeding in general accordance with the Contract Documents. The frequency of such visits shall be determined by the Owner; however, in no case shall it be less than two (2) weeks even where there is constant representation at the Contract Site;

(iii) During such visits, the Consultant will prepare a site visit report that includes notification of any non-conforming work observed for the

Project and will determine whether all deficiencies have been addressed in accordance with the Contract Documents. Copies of such lists will be forwarded to the Owner indicating what action has been taken.

(e) Submit monthly reports to the Owner in narrative form, summarizing the progress of the Project construction and such other information as the Owner may require from time to time and will include digital photographs taken during the course of the scheduled site reviews demonstrating issues or non-conformances with the Work and digital photographs used specifically to demonstrate progress of the Project;

(f) Review (or shall cause the review by its approved sub-consultants) all testing results called for under the Contract Documents and work with the Owner to identify the groups within the Owner who may be impacted by such testing and shall ensure that such groups are notified at least one (1) week in advance of any such tests;

(g) Prepare and issue change orders as approved by the Owner;

(h) Recommend to the Owner the amounts owing to the Contractor under the Contract based on the Consultant's observations and evaluation of the Contractor's application for payment;

(i) Transcribe "as-built" information from the Project, as provided by the Contractor, to the original drawings, provide a set of such documents to the Owner in a form suitable for reproduction, and provide as-built information in electronic format acceptable to the Owner with workable file formats preserved and provided where possible. The cost of the Consultant's staff in the preparation of the as-built reproducible information will be part of the Fee;

(j) Organize, through the Contractor, a complete commissioning of all of the components of the Project to determine that the various parts are operating in the manner as intended by the Contract Documents. The Substantial Performance Certificate will not be issued until the final commissioning of the work has been successfully completed and so certified by the Consultant;

(k) Upon achievement of Substantial Performance by the Contractor, prepare, sign and deliver to the Owner the Substantial Performance Certificate. Prior to the issuance of such Substantial Performance Certificate, the Consultant shall ensure that the Owner has been provided with all Deliverables related to the Contract and shall provide any remaining Deliverables forthwith including, without limitation, a complete set of the contract drawings revised to record all changes "as-builts";

(l) Upon achievement of Total Performance by the Contractor (including the rectification of any deficiencies), prepare a Total Performance Certificate for issuance to the Contractor. The Total Performance Certificate, in order to be valid, will require the signature of the Consultant, the Contractor and the Owner;

(m) Carry out visual inspections at the request of the Owner during the Warranty Period to determine whether the Contractor has remedied all defects and failures and, when satisfied, to certify in writing to this effect. For greater certainty, any inspection which is recommended by the Consultant which involves imaging, demolition or other non-visual inspection work will be reviewed with the Owner and subject to the Owner's written approval prior to being undertaken. No fees will be charged by the Consultant for its time spent in respect of such inspections; however, any disbursements by the Consultant shall be reimbursed by the Owner in accordance with the Reimbursement Requirements;

(n) Provide the Owner with a post-construction evaluation of the Project, including all buildings, building services and cost analysis, which will include a final cost of construction review, including all changes and amendments, and a report on the performance on the building which would include a guide for the Owner as well as a program or formula for use by the Owner in future years to determine the performance of the designed building. In addition, the Consultant will perform a post-occupancy evaluation of the completed building within one (1) year of its completion and occupancy. The post-occupancy evaluation will include:

(i) An analysis of energy performance over baseline, provided that the Owner releases all necessary energy consumption information to the Consultant required for such analysis;

(ii) A review of material selections for durability and condition;

(iii) A workshop with the Owner to discuss lessons learned from process and feedback received from users of the building, including the Owner's staff;

(iv) A review by the Owner and Consultant of any warranty issues that have arisen; and

(v) A review of control systems (building automation) to verify performance of control systems to design intent.

3.12 Resident Services (Additional Services)

Where requested in writing by the Owner, the Consultant shall provide resident services as Additional Services in accordance with this Section 3.12.

Particular aspects of the Project will require additional on-site services, e.g., review and inspection of structural components, mechanical systems and electrical systems.

The Owner will require a residential, full-time representative on the Project in order to ensure that the Project is constructed in accordance with the terms and conditions of the Contract Documents. Resident services do not take the place of any professional responsibilities of the Consultant to witness tests, review work, review submittals and comment on the work of the Contractor.

Resident staff is required to compile and preserve up-to-date records of execution of the Project including measurement of qualities/quantities of material used showing also the mode and location of use and inspect the Project continuously while the construction is in progress. Such residential staff must be experienced and qualified and acceptable to the Owner.

Resident staff will arrange for and witness all tests and evaluations of Project materials and equipment, maintain and keep available for examination by the Owner a continuous daily record showing the number of persons and items of equipment from time to time employed in connection with the Project by the Contractor, provide all other information and advice necessary to assess the progress, determine the causes of any delays, perform all required inspections and verify the claims and examine and verify any payment claims due to the Contractor for the progress of the construction on the Project.

An Owner's Coordinator acceptable to both the Owner and the Consultant may be engaged by either the Owner or Consultant at the discretion of the Owner, in which case the Owner shall approve the salary or fee to be paid for such services in advance and shall establish the duties to be carried out by the Owner's Coordinator.

3.13 Insurance

In performing the Services, the Consultant will obtain and maintain insurance as described below:

(a) All insurance required to be maintained by the Consultant shall be primary with respect to other similar or complementary insurance maintained by Owner;

(b) Prior to commencement of the Services, the Consultant shall provide evidence of insurance policies required to be procured by the Consultant hereunder in the form of a Certificate of Insurance. Similar evidence of renewals shall be provided to Owner upon request;

(c) All amounts of claims, losses or damages otherwise covered but not recoverable from the Consultant's insurers by reason of: (i) application of deductible clauses pertaining to Consultant furnished insurance; or (ii) any breach by the Consultant of the terms of its insurance policies, shall be for the account of and paid by the Consultant;

(d) Consultant purchased policies shall contain clauses which require notification to the Owner in writing at least thirty (30) days prior to any cancellation of such policies. Consultant shall notify the Owner in writing at least thirty days prior to any material change in such policies;

(e) Insurance to be provided by the Consultant shall include, as a minimum, the following:

(i) Workplace compensation and/or employer's liability coverage to the full extent required by all laws (including, if applicable, maritime and international law) or $5,000,000, whichever is the greater, applicable wherever the Services is to be performed under this Agreement and/or contracts of employment for Consultant's employees are made or expressed to be made;

(ii) Comprehensive general liability insurance for personal injury to or death of third parties and loss of or damage to property of third parties, including Consultant's contingent liability with respect to the operations of sub-consultants, and contractual liability assumed by the Consultant under this Agreement, arising out of or in any way connected with the performance of the Services, subject to a limit of not less than $5,000,000 per occurrence and in the aggregate;

(iii) Comprehensive automobile liability insurance which complies with all applicable governmental requirements including coverage for all automotive equipment owned, hired or otherwise procured by the Consultant for the Services, subject to a limit of not less than $5,000,000 per occurrence. In respect of vehicles not owned by the Consultant, it shall maintain and keep in force non-owned automobile liability insurance protecting its liability, including that assumed under this Agreement, subject to a limit of not less than $5,000,000 per occurrence and in the aggregate;

(iv) Professional liability insurance covering negligent acts, errors and omissions arising out of the performance of design and engineering

Services under this Agreement. The professional liability insurance shall be continued to be maintained by the Consultant for a period at least equal to the Warranty Period, subject to a limit of not less than $2,000,000 per occurrence and in the aggregate unless otherwise stated in Table 1 - Details; and

(v) Any other insurance which it is required by law to provide.

(f) Each Party shall afford the other all reasonable assistance as may be required for prompt notice to insurers and for preparation and negotiation of insurance claim;

(g) The Consultant shall give to the Owner prompt notification, in any event no more than twenty-four (24) hours after the time of the incident, of any accident or incident occurring during the progress of the Services, whether or not it may result in a claim against the Owner's or the Consultant's insurance policies;

(h) All such insurance shall be maintained by the Consultant during the term of this Agreement and up to the expiry of the Warranty Period;

(i) All insurance shall be placed with insurers authorized to do business in the Province of Newfoundland and Labrador.

4. CONSULTANT'S ACTIONS AND DECISIONS

4.1 The Consultant acknowledges that it has had adequate discussion and access to sufficient information to enable them to undertake the Services contracted for the Fee.

4.2 The Consultant agrees to act promptly on all matters requiring an action or decision on its part affecting the provision of the Services.

4.3 The Consultant acknowledges that regulatory codes and standards applicable to the Services will be met and that it will obtain any required approvals from the regulatory authorities for the provision of the Services.

The Consultant acknowledges that the integration of capital work into existing mechanical, electrical, controls, data, space management, building services and equipment management systems is of paramount importance to the Owner, and the Consultant shall consult with the Owner's technical services, operations and maintenance and engineering groups to ensure that the Consultant meets existing standards and practices related to the Services. The Consultant must request from the Owner all University Guidelines, Policies and Specifications which relate to or inform the Services being provided. Throughout the term of the Agreement, the Consultant must request from the Owner any updates or

revisions to the University Guidelines, Policies and Specifications before using or relying on such documents in the Services.

Without limiting the generality of the foregoing, if applicable to the Services, all engineering drawings, plans and calculations shall be properly signed and stamped in accordance with the Engineers and Geoscientists Act (Newfoundland and Labrador) and any successor or replacement legislation thereto, the regulations thereunder and the guidelines from time to time established by the Professional Engineers and Geoscientists of Newfoundland and Labrador (PEGNL) (or its successor from time to time). If applicable to the Services, the Consultant (or an approved sub-consultant) will stamp and approve all design calculations, drawings and other documents essential to the execution of the Services.

4.4 No acceptance or approval by the Owner, whether expressed or implied, shall be deemed to relieve the Consultant of its contractual, professional or technical responsibility for the Services.

4.5 If applicable to the provision of the Services, the Consultant is encouraged to specify local materials when the materials are available, of satisfactory quality and competitive in cost.

4.6 The Consultant hereby represents and warrants to the Owner as follows and acknowledges that the Owner is relying upon such representations and warranties in connection with entering into this Agreement and making payments due hereunder:

(a) The Consultant has all necessary corporate power and authority to enter into this Agreement and perform its obligations hereunder;

(b) All necessary corporate action and other action has been taken by the Consultant to authorize the execution and delivery of this Agreement by the Consultant and the performance by the Consultant of its obligations under this Agreement, and this Agreement has been duly executed and delivered by the Consultant and constitutes a legal, valid and binding obligation of the Consultant, enforceable against the Consultant in accordance with its terms;

(c) Neither the execution and delivery of this Agreement by the Consultant nor the performance by the Consultant of its obligations under this Agreement will conflict with or result in the violation of any of the terms and provisions of the constating documents or by-laws of the Consultant or of any agreement, obligation, contract, commitment, law or regulation to which the Consultant is a party or by which it is bound; and

(d) The Consultant is a resident of Canada for the purpose of Canadian income tax legislation. If the Consultant is or becomes a non resident, the Owner may withhold from any payment otherwise due and owing under the terms of this Agreement any percentage of any such payment as may be required by such legislation. The Consultant shall inform the Owner forthwith of any change in its residency status for income tax purposes and in any event the Consultant shall indemnify the Owner for any payment not withheld, but required to be paid pursuant to such legislation, including any interest and penalty assessed thereon.

4.7 The Consultant acknowledges that timely performance of the Services is of paramount importance to the Owner. Unless otherwise directed by the Owner in writing, the Consultant shall work diligently to reach completion of the Services and achieve any required milestones in accordance with the Services Schedule.

4.8 The Consultant shall use its best efforts to avoid and mitigate any delay in the performance or provision of the Services.

5. STAFF

5.1 If applicable to the Services, the Consultant shall retain or employ professional staff licensed to practice in the Province of Newfoundland and Labrador by its respective professional associations for the conduct of the Services.

5.2 The Consultant shall assign to the performance of the Services, those personnel identified in the Consultant Proposal. The Consultant shall not replace such key personnel unless replacement becomes unavoidable, and in such case, the Consultant shall provide the Owner with the résumés and qualifications of potential candidates for such position(s). The Owner shall have the right to first approve any proposed replacement personnel.

5.3 At the request of the Owner, the Consultant will provide the Owner with a list of its employees and those of its sub-consultants who will be assigned to the provision of the Services. The list will include the classification of each employee and typical hourly rates to be paid. The purpose of such lists will be to assess the Consultant's staff for the Services and to establish rates for payments should the Services be abandoned or postponed by the Owner. The Consultant will notify the Owner's Representative of any additions or changes.

6. PROJECT MANAGEMENT/CONSTRUCTION MANAGEMENT

The Owner may elect to retain a project manager or construction manger to carry out the work of this Project and, if such appointment occurs, the Owner (in its sole discretion) shall specify the scope of such services. On this basis, the Owner reserves the right to renegotiate the duties of the Consultant and the commensurate fee. The fees and expenses of a project manager will not be included as part of the Consultant's Fee.

7. REIMBURSABLE EXPENSES

The Consultant shall be reimbursed at cost for certain reimbursable expenses incurred in relation to the performance of this Agreement in accordance with the Reimbursement Requirements.

8. FEES

8.1 Services

The Consultant agrees that its total compensation for the performance of the Services, other than the Additional Services, shall be the Fee, which does not include Harmonized Sales Tax, and which is earned as set out in Section 8.3.

It is agreed by the Parties hereto that accounts payable under this Agreement shall be payable only when the Services has been performed to the satisfaction of the Owner within the cost limit established by the Agreement, and any payment in respect of a phase or part of a phase shall not be deemed a waiver of the Owner's rights of set-off at law or under this Agreement for costs or expenses arising from default or negligence of the Consultant or its sub-consultants.

8.2 Additional Services

Additional Services shall be provided at the rates described in the Consultant Proposal. If any of the Additional Services require services for which a rate is not included in the Consultant Proposal, then rates shall be negotiated between the Consultant and the Owner, and agreed upon in writing, before the commencement of any Additional Services. Payment shall be made in accordance with this Article 8.

8.3 Payments

The Fee shall be broken down and payments made in a manner hereinafter outlined:

(a) Upon written approval by the Owner, up to the completion of the Concept Design Stage:

.15 x Fee

(b) Upon written approval of the Owner, up to the completion of the Design Development Stage:

.15 x Fee

(c) Upon written approval of the Owner, up to the completion of approved Construction Contract Documents suitable for tendering purposes and pre-tender estimate:

.40 x Fee

(d) Upon written approval of the Owner, up to the completion of the bidding and completion of written recommendation for construction contract award:

.05 x Fee

(e) During Construction Contract Administration upon written approval of the Owner, up to the completion of Construction Contract Administration:

.25 x Fee

8.4 Holdbacks

As set out in Subsection 8.5 (b), the Owner shall retain the Holdback (as well as the other items referenced in Subsection 8.5 (b)) from each payment due to the Consultant hereunder upon:

a) Achievement of Total Performance by the Consultant;

b) The delivery to the Owner of a sworn Declaration (in the form provided by the Owner) signed by the Consultant and declaring that all payments have been made by the Consultant to its suppliers and sub-consultants with the exception of monies that are being withheld in accordance with the Mechanics' Lien Act or to satisfy deficiencies; and

c) Confirmation from the Consultant to the Owner that the Owner has been provided with all Deliverables related to the Agreement, the Owner will prepare and issue to the Consultant a Total Performance Certificate. Upon issuance of the Total Performance Certificate, the Owner shall make all remaining payments to the Consultant out of the Holdback as are permitted by the Mechanics' Lien Act and the terms of this Agreement.

8.5 Invoicing/Payment/Disputed Amounts

(a) Invoicing

The Consultant shall invoice the Owner for the total amount payable as determined in accordance with Article 8. The invoice shall provide, at minimum, an arithmetic calculation of fees payable and a detailed list of expenses including copies of receipts, documentation and time sheets. All invoices shall clearly identify any amounts paid or charged in respect of Canadian import duties, sales taxes and Goods and Services Tax (GST) or Harmonized Sales Tax (HST). In addition, the Consultant's GST/HST registration number shall be quoted on all invoices. Invoices shall be

submitted to the Owner along with all reasonably necessary back-up documentation, and payment of the invoice by the Owner shall be as provided in Subsection 8.5 (b).

The Consultant may issue invoices monthly or at such other times which are agreed between the Owner and the Consultant in writing. Amounts for Additional Services may also be invoiced monthly or at such other times which are agreed between the Owner and the Consultant in writing.

(b) Payment

The invoice and all back-up documentation required hereunder shall be submitted for payment as indicated on the Cover Pages hereof.

The Consultant agrees that no payment made by the Owner under the terms of this Agreement shall constitute, or shall be construed to constitute, the acceptance of the accuracy of any invoice, the acceptance of the validity of any charge, or the waiver of any right to claim repayment, unless and until the Owner's audit rights with respect thereto, as set forth in Article 11 hereof, shall have expired and such invoice, charge or payment shall not have been challenged. The Consultant further agrees that no payment made by the Consultant under the terms of this Agreement shall constitute, or shall be construed to constitute, the acceptance of any faulty or defective Services.

The Owner shall pay the Consultant within forty-five (45) days of receiving a properly documented invoice from the Consultant the amount due on the invoice less:

(i) The Holdback;

(ii) All amounts of credit then owning to the Owner;

(iii) Any withholding amounts required by any governmental authority, including any Holdback;

(iv) Any disputed amounts; and

(v) Any amounts not payable to the Consultant under Sections 8.1 or 8.2 hereof.

(c) Disputed Amounts

In the event of dispute, of any nature or kind, over any item or items in an invoice, the disputed amount shall be left unpaid until such time as the

Parties reach agreement regarding the disputed amount and failing such agreement thereon, the Owner and the Consultant shall:

(i) Use their best efforts in good faith to reach a reasonable and equitable resolution of the dispute; or

(ii) Proceed with good faith negotiations between managers of the Parties with decision making powers. If the Parties still fail to reach an agreement, the dispute shall be resolved in accordance with Article 10. The disputed amount, if payable, shall be paid within fifteen (15) days from the date resolution is reached regarding the disputed amount. Undisputed amounts, whether appearing on the same invoice or a different invoice as the disputed amount, shall be paid in accordance with Subsection 8.5 (b).

9. SPECIAL CONDITIONS

9.1 Force Majeure

(a) For the purposes of this Article, "Force Majeure" means an occurrence beyond the reasonable control of the Party claiming suspension of an obligation hereunder, which has not been caused by such Party's negligence and which such Party was unable to prevent or provide against by the exercise of reasonable diligence at a reasonable cost and includes, without limiting the generality of the foregoing, an act of God, war, revolution, insurrection, blockage, riot, strike, a lockout or other industrial disturbance, fire, lightning, unusually severe weather, storms, floods, explosion, accident, government restraint, action, delay or inaction.

(b) If any Party is prevented by Force Majeure from fulfilling any obligation hereunder, the obligations of the Party, in so far only as its obligations are affected by the force majeure, shall be suspended while the Force Majeure continues to prevent the performance of such obligation and for that time thereafter as that Party may reasonably require to commence to fulfil such obligation. A Party prevented from fulfilling any obligation by Force Majeure shall promptly give the other Party notice of the Force Majeure and the affected obligations, including reasonably full particulars in respect thereof.

(c) The Party claiming suspension of an obligation, as aforesaid, shall promptly remedy the cause and effect of the applicable Force Majeure, in so far as it is reasonably able so to do, and such Party shall promptly give the other Party notice when the Force Majeure ceases to prevent the performance of the applicable obligation. The terms of settlement of any strike, lockout or other industrial disturbance shall be wholly in the discretion of such Party, notwithstanding this Section, and that Party shall not be required to accede to the demands of its opponents in any strike, lockout or industrial

disturbance solely to remedy promptly the Force Majeure thereby constituted.

If, within a reasonable time after a Force Majeure occurrence which has caused the Consultant to suspend or delay performance of the Services, the Consultant has failed to take such action as the Consultant could lawfully initiate to remove or relieve either the Force Majeure occurrence or its direct or indirect effects, the Owner may, in its sole discretion and after written notice to the Consultant, at Consultant's expense, initiate such measures, including but not limited to, the hiring of third parties designed to remove or relieve such Force Majeure occurrence or its direct or indirect effects and thereafter require the Consultant to resume full or partial performance of the Services. Alternatively, the Owner, in its sole discretion, may decide to terminate this Agreement without any liability whatsoever.

(d) Notwithstanding anything contained in this Section, lack of finances shall not be considered a Force Majeure nor shall any Force Majeure suspend any obligation for the payment of money due hereunder.

9.2 Confidentiality

It is acknowledged by the Consultant that in the performance of this Agreement there will be disclosed to the Consultant information of the Owner (including without limitation all intellectual property, drawings, specifications, dies, patterns and the like supplied by the Owner or prepared or constructed by the Consultant in connection with the Services), which has not been generally disclosed to the public (the "Confidential Information"). It is acknowledged that it is necessary to the proper and efficient performance of the Agreement that disclosure of Confidential Information may need to be made to the employees of the Consultant ("Permitted Purposes").

The term "Confidential Information" does not include information which becomes:

a) Generally available to the public other than as a result of a disclosure by the Consultant or its agents or employees;

b) Available to the Consultant on a non-confidential basis from a source other than the Owner or its employees, provided that such source is not bound by a confidentiality agreement with the Owner. It is further agreed by each Party that money damages would not be sufficient remedy for any breach of this Section by the Consultant or its employees, and in addition to all other remedies, the Owner shall be entitled to specific performance and injunctive or other equitable relief as a remedy for any such breach, and the Consultant further agrees to waive and to use its best efforts to cause its employees to waive any requirement for the securing or posting of any bond in connection with such remedy.

It is agreed that the Confidential Information will not be used by the Consultant in any manner that may be detrimental, commercially or otherwise, to the Owner and that the Confidential Information will be kept confidential by the Consultant provided, however, that such Confidential Information may be disclosed to employees of the Consultant who need to know such information for the Permitted Purposes. It shall be the responsibility of the Consultant to inform such of its employees who have access to Confidential Information of the confidential nature of such information and to cause them to treat such information in the strictest of confidence and only for the Permitted Purposes.

Except as provided herein, the Confidential Information shall not be disclosed to others without prior written approval of the Owner, and upon completion of Services or upon termination of the Agreement, the Confidential Information shall be returned to the Owner.

In the event that the Consultant is requested in any proceeding to disclose any Confidential Information, the Consultant shall provide immediate notice of such request to the Owner so that it may seek an appropriate protective order. It is further agreed that, if in the absence of a protective order the Consultant is nonetheless compelled to disclose Confidential Information, such information may be disclosed without liability hereunder provided that the Consultant give written notice to the Owner of all information to be disclosed at the earliest possible time as is practicable and that the Consultant utilize its best efforts to obtain assurances that confidential treatment will be accorded to such information. The Consultant will be responsible for any breach of this Agreement by its employees. It is further agreed that upon request the Consultant will promptly redeliver to the Owner all copies of the Confidential Information and, furthermore, will destroy all memoranda, notes and other writings prepared by the Consultant or its employees based on the Confidential Information.

Failure or delay by the Owner in exercising any right, power or privilege under this Section shall not operate as a waiver thereof, nor shall any single or partial exercise thereof preclude any other further exercise thereof or the exercise of any right, power or privilege thereunder.

The Consultant acknowledges that the Owner is a public body subject to the *Access to Information and Protection of Privacy Act*, SNL 2002 Ch. A-1.1 and that this Agreement, the records of the Consultant supplied to the Owner and all related records in the custody or control of the Owner may be subject to a request for access under such legislation.

9.3 Default

(a) The Consultant shall be in default ("Default") if any one of the following occur:

(i) If the Consultant becomes insolvent or if insolvency, receivership or bankruptcy proceedings are commenced by or against the Consultant;

(ii) If the Consultant assigns, subcontracts or transfers this Agreement or any right or interest therein, except as expressly permitted hereunder;

(iii) If the interest of the Consultant under this Agreement is devolved to any person or corporation other than as specifically permitted herein;

(iv) If the Consultant fails to make prompt payment for labour or materials or to its sub-consultants, unless such failure of the Consultant to pay is as a result of a bona fide dispute as to amounts payable by the Consultant for labour or materials or to its sub-consultants (as the case may be) and provided that any undisputed amounts are promptly paid;

(v) If the Consultant breaches applicable laws or ordinances or the lawful requirements of any competent authority or instructions of the Owner or if, except for any of the reasons of Force Majeure (as defined herein), the Consultant fails, neglects, refuses or is unable at any time during the course of the Services to provide ample material, equipment, services or labour to perform the Services at a rate or in a manner deemed sufficient by the Owner to give reasonable assurance that the Consultant shall complete the Services in accordance with this Agreement;

(vi) If the Consultant fails to prosecute the Services in such a manner as to complete the Services in accordance with the Services Schedule, provided, however, that the Owner first provides the Consultant with thirty (30) days' notice of its intention to terminate their Agreement for default of this Subsection and a reasonable opportunity to cure such Default; or

(vii) If the Consultant defaults in its performance of a representation, warranty or guarantee or other provision of this Agreement provided, however, that the Owner first provides the Consultant with thirty (30) days' notice of its intention to terminate this Agreement for default of this Subsection and a reasonable opportunity to cure such Default.

If the Consultant is in Default, then the Owner, without prejudice to any other rights or remedies available to it under this Agreement or at law, may terminate this Agreement forthwith by giving written notice of termination to the Consultant, and/or the Owner shall have the right to finish the Services either directly or by using the services of other Consultants or the services of the Consultant's employees.

(b) In the case of Default:

(i) The Consultant shall execute all papers and take all other steps which may be required to vest in the Owner all rights, title, set offs and other benefits held by the Consultant in connection with the performance of the Services;

(ii) The Consultant shall be liable for actual Losses incurred by the Owner on account of the Consultant's Default, which actual Losses may be set-off against amounts due to the Consultant hereunder; and

(iii) The Owner shall be entitled to suspend payments to the Consultant until such time as 1) it has been determined by written agreement between Owner and the Consultant that amounts are due to the Consultant, 2) the Consultant cures the Default, or 3) it has been determined in accordance with Article 10 that amounts are due to the Consultant, in all cases taking into account the Owner's rights of set-off against any such payments.

9.4 Suspension of Services or Termination without Default

(a) The Owner may, in its sole discretion and without or without reason, suspend the Services or any portion thereof at any time by providing twenty (20) days' written notice to the Consultant. Upon receipt of such written notice, the Consultant shall:

(i) Stop all suspended Services and place no further sub-consultants or orders in relation to the suspended Services;

(ii) Forward to the Owner all complete or incomplete reports, data and other documents pertaining to such suspended Services or portion thereof;

(iii) If requested by the Owner, assign or suspend sub-consultants and orders to the extent they relate to the suspended portion of the Services;

(iv) Complete the performance of any unsuspended portions of the Services in accordance with this Agreement;

(v) Cooperate and assist the Owner in respect of the best methods of mitigating any delays, costs or Losses arising from the suspended Services; and

(vi) Maintain the key personnel identified in the Consultant Proposal for up to thirty (30) days from the Notice of Suspension as required by the Owner.

In the event of such suspension, the Consultant shall be paid by the Owner in accordance with Subsection 9.4 (c) hereof.

If the Owner requests the Consultant proceed with the Services within sixty (60) days or less from the date that the Owner requested the Services be suspended, the Consultant shall, upon the cessation of such suspension, and may, at its option if requested by the Owner when such suspension is longer than sixty (60) days, resume performance of the Services, and the Owner shall reimburse the Consultant in accordance with Subsection 9.4 (d) hereof.

If on or after sixty-one (61) days of suspension the Owner requests resumption of the Services, the Consultant may refuse to resume the Services.

(b) In addition, the Owner, may in its sole discretion and without cause, terminate all or any part of the Services at any time upon ten (10) days' written notice to the Consultant. Upon receipt of such notice, the Consultant shall stop the Services, or portion thereof, and forward to the Owner all complete or incomplete reports, data and other documents pertaining to such cancelled Services, or portion thereof, and shall assign any subcontracts to the Owner if the Owner so requests.

(c) In the event of suspension or termination of any part of the Services in accordance with the provisions of this Section 9.4, the Consultant shall be entitled to full payment for that part of the Services performed by the Consultant under the terms and conditions of this Agreement up to the effective date of such termination or suspension.

If this Agreement provides for the payment for Services upon the completion of milestones, then the following provision shall apply:

Should this Agreement be suspended or terminated by the Owner in accordance with the provisions of this Section prior to the completion of any or all of milestones for payment, the payment for any Services completed in addition to an approved milestone will be on the basis of hourly rates for the classification involved as set out in the Consultant Proposal.

The Owner shall not pay any cancellation fees or expenses related to cancellation, termination or suspension (unless the Consultant is entitled to payment of fees or expenses on resumption of the Services under Subsection 9.4 (a)) by the Owner under this Section 9.4 and shall not be liable for any Losses of the Consultant including, without limitation, loss of anticipated profits on account of such suspension or termination.

(d) In the event of a resumption of suspended Services under Subsection 9.4 (a), the Consultant shall be paid:

(i) Disbursements incurred in relation to the suspension of the Services;

(ii) Third party cancellation charges incurred by the Consultant to the date of the suspension; and

(iii) Any demobilization costs and remobilization costs.

9.5 Provision of Materials on Termination

Upon suspension and/or termination of this Agreement, irrespective of the time, manner or cause of the said suspension and/or termination, the Consultant must provide the Owner with all Deliverables, including, without limitation, drawings, reports, specifications, bills of quantities, calculations, computer generated files and other documents and/or records related to the Services, including all copies except for one copy which the Consultant shall be entitled to retain subject to the confidentiality provisions of this Agreement.

9.6 Survival of Agreement

The rights and obligations of the Owner and the Consultant, which by their nature survive termination or completion of this Agreement, including but not limited to those relating to confidentiality, liability, indemnification, warranty and other remedies, settlement of accounts, audit, taxes and disputes, shall survive any termination or suspension of the Services and expiration of this Agreement and remain enforceable thereafter, anything in this Agreement to the contrary notwithstanding.

9.7 Suspension or Termination by Consultant

Failure by the Owner to make payments, other than those payments which may be delayed or withheld by the Owner pursuant to Sections 8.4 and 8.5 hereof, is substantial non-performance and cause for either termination or suspension of the Agreement. If the Owner fails to make timely payments to the Consultant of amounts due to the Consultant, other than those payments which may be delayed or withheld by the Owner pursuant to Sections 8.4 and 8.5 hereof, the

Consultant may upon forty-five (45) days' prior written notice to the Owner suspend performance of the Services under this Agreement.

10. DISPUTE RESOLUTION

In the event of disagreement between the Parties as to the performance of the Services or the interpretation, application or administration of the Agreement, the Consultant shall continue to perform the Services as per the terms and conditions of the Agreement. All differences between the Parties not resolved by negotiation and all disputes and claims of either Party arising out of this Agreement and its performance shall be settled in accordance with this Article.

In the event of any dispute arising out of or in connection with this Agreement, the Parties shall make all best efforts to resolve all disputes and claims by negotiation and agree to provide, without prejudice, open and timely written disclosure of relevant facts, information and documents to facilitate these negotiations.

In the event that negotiation does not succeed in resolving the dispute, or if either one of the Parties refuses or chooses to opt out of the negotiation, the dispute will be resolved through confidential final and binding arbitration to be held in St. John's, Newfoundland and Labrador excluding any further legal procedure. Such arbitration will be governed by the rules of the *Arbitration Act* (Newfoundland and Labrador) by one arbitrator. The arbitrator shall be appointed in accordance with the said rules. The arbitration shall be conducted and all related communications shall be in the English language.

11. RIGHT OF AUDIT

The Consultant will keep and maintain accurate time sheets and cost invoice records of its services performed under this Agreement including services performed on its behalf by a sub-consultant (if permitted) and, when required, make such material available for inspection and audit by the Owner.

The Consultant shall be responsible for ensuring that all of its records and its permitted sub-consultants' records specified above are preserved and made available at any time for audit, without additional compensation therefore, for a period of seven (7) years after the expiry of the Warranty Period. The Owner's right to audit such records shall continue for the period of time in which the Consultant is required to retain such records.

12. COPYRIGHT

All surveys, reports, drawings, calculations, design, plans, specifications and other digital or hard copy data compiled and collected in connection with the Services are the property of the Owner and the copyright therein vests in the Owner. The Consultant may retain one (1) complete set of the above-described material for its records. The Owner will make available its originals to the Consultant for all proper and reasonable

purposes for a period of five (5) years following the completion or termination of the Consultant's services under this Agreement.

13. WARRANTY AND INDEMNITY

13.1 Warranty

The Consultant hereby warrants to the Owner as follows and acknowledges that the Owner is relying upon such warranties in connection with entering into this Agreement and making payments due hereunder:

(a) The Services will meet all of the requirements set forth in this Agreement. If errors and omissions arise in respect of the performance of the Services under this Agreement, Section 13.2 shall apply;

(b) The Consultant has all of the required skills, facilities, equipment and capacity to perform the Services and will perform the Services with all due diligence and in a manner and to a standard which would normally be employed by a recognized reputable professional Consultant performing Services of a comparable nature; and

(c) All deliverables including, if applicable to the Services, all design, engineering, drawings and specifications prepared or supplied by the Consultant will be accurate to the standards of skill, care and diligence referred to in Subsection 13.1 (b).

13.2 Warranty Period and Remedy for Non-Performance

The Warranty Period with regard to this Agreement is from the date on which the Services are performed by the Consultant up to where:

(a) The Consultant has been engaged to provide construction contract administration services pursuant to Section 3.11 hereof, the date which is one (1) year from the issuance of the Substantial Performance Certificate; or

(b) The Consultant has not been engaged to provide construction contract administration services as part of the Services, the date which is one (1) year from the issuance of the Total Performance Certificate to the Consultant for the Services provided hereunder.

(the applicable period, referred to herein as the "Warranty Period").

The Consultant shall, upon notice by the Owner, correct by re-performing the Services in which the deficiency or defect appeared or performing additional Services of the same nature as the Services at its own cost and expense, any

deficiencies or defect in its Services or any defect caused by the performance, purported performance or non-performance of the Services, which appear prior to or during the Warranty Period (the "Corrective Services") and for which the Owner has provided such notice to the Consultant no later than thirty (30) days after the end of the Warranty Period.

The Warranty Period is extended for an additional one (1) year period from the later of 1) the completion of the Corrective Services or 2) the end of the original Warranty Period in respect of any deficiencies caused by the performance, purported performance or non-performance of the Corrective Services.

13.3 Owner's Right to Complete

In the event the Consultant fails or refuses to correct such deficiencies or defect in a timely manner, the Consultant shall be in Default under this Agreement in which case the Owner reserves the right to complete any required remedial Services itself, or by others, and Section 9.3 shall apply.

13.4 Owner's Other Rights

The Owner's right to require the Consultant to re-perform the Services set forth in this Article 13 shall be in addition to, and not a waiver, reduction or restriction of, the Owner's other rights and remedies at law or in equity. Nothing contained in this Article 13 shall reduce or limit the otherwise applicable statutes of limitation for any action based upon the Consultant's breach of any representation, warranty or guarantee.

13.5 Consultant's Liability and Indemnity

(a) The Consultant shall be liable to the Owner for and shall indemnify, defend and save harmless the Owner from and against all Losses which the Owner may suffer, pay or incur as a result of the Consultant's failure to comply with the terms of this Agreement and any negligence, negligent omission or wilful misconduct of the Consultant in connection with, related to or arising out of this Agreement.

(b) Without limiting the generality of the foregoing, the Consultant shall be liable to the Owner for and shall indemnify, defend and save harmless the Owner from and against all Losses which the Owner may suffer, pay or incur in respect of:

(i) Any Lien placed by the Consultant or any sub-consultant or supplier or other person arising from the performance of the Services; and

(ii) The actual or alleged infringement of any rights under patent, copyright or any other intellectual property right or any litigation based thereon, arising from the Services.

The Consultant's liability to indemnify or reimburse the Owner under this Agreement shall not limit or prejudice the Owner from relying on the provisions of applicable legislation.

For greater certainty, the indemnity survives the end of the Warranty Period.

14. AGREEMENT

14.1. This Agreement shall enure to the benefit of and be binding upon the Parties hereto, their successors and permitted assigns.

14.2 This Agreement may not be assigned in whole or in part without the prior written consent of the Owner.

14.3 This Agreement shall be governed by and construed in accordance with the laws of the Province of Newfoundland and Labrador and the federal laws of Canada applicable therein. The Parties irrevocably submit to the exclusive jurisdiction of the courts of the Province of Newfoundland and Labrador, as applicable, with respect to any matter arising hereunder or related hereto.

14.4 Any notice or communication required or permitted to be given under this Agreement must be in writing and shall be served either personally, by facsimile (with adequate proof of delivery), by deposit with an overnight courier with charges prepaid, or by prepaid registered post addressed 1) to the Owner at the address and facsimile number provided on the Cover Pages hereof, and 2) to the Consultant at the address and facsimile number provided on the Cover Pages hereof, or 3) such other address as either Party may give the other by written notice.

Any such notices shall be deemed to have been given 1) upon delivery in the case of personal delivery, 2) upon the first business day following facsimile receipt, 3) one (1) business day after deposit with an overnight courier, or 4) three (3) business days after deposit in the mail, provided that if such mail service shall be interrupted by strike or other irregularity before the deemed receipt of such notice as aforesaid, then such notice shall not be effective unless delivered or transmitted via facsimile.

14.5 This Agreement, together with any documents incorporated by reference herein, constitutes the entire agreement between the Consultant and the Owner in connection with the subject matter hereof and there are no other representations, warranties, undertakings, promises, covenants, conditions, terms, agreements or inducements by or between the parties hereto relating to the subject matter of this Agreement not embodied or contained in this Agreement.

In the process of selecting the Consultant, the Owner relied upon the Consultant Proposal. Notwithstanding the foregoing, for the purpose of clarification or interpretation, the Owner may rely upon the Consultant Proposal and any other documents and submissions made by the Consultant.

In the event of any conflict in the documents comprising this Agreement, the following shall apply:

(a) The Cover Pages together with Appendix 1 – Terms and Conditions (without reference to the other Appendices) shall govern over all other Appendices; and

(b) The RFP shall take precedence over the Consultant Proposal.

If any of the terms of the Consultant Proposal violate any of the terms, provisions or context of the RFP or a provision or context of the Cover Pages together with Appendix 1 – Terms and Conditions (without reference to the other Appendices), the parties agree that the terms, provisions or context of the RFP or the provision or context of the Cover Pages together with Appendix 1 – Terms and Conditions (without reference to the other Appendices) shall prevail, and the Consultant Proposal will be construed as having been altered to conform with such terms, provisions or context. If any of the terms of the Cover Pages together with Appendix 1 – Terms and Conditions (without reference to the other Appendices) conflict with the terms of the RFP, the terms and provisions of the Cover Pages together with Appendix 1 – Terms and Conditions (without reference to the other Appendices) prevail.

14.6 Headings used in this Agreement are provided for convenience only and shall not be used to construe meaning or intent.

14.7 This Agreement shall be interpreted according to the ordinary and usual meaning of the words herein, including any usage or custom in the industry which is relevant to the provisions of the Services.

14.8 Words importing the singular include the plural and vice versa, and words importing gender include all genders.

14.9 This Agreement may be amended only by written instrument executed by both Parties. No modification or change to this Agreement shall be binding upon any Party unless contained in writing signed by the other Party. No course of dealing, course of performance, or trade usage, and no parol evidence of any nature, shall be used to supplement or modify such agreement and understanding.

(a) No waiver or course of dealing shall extend to, or constitute a waiver of, any subsequent or other defaults or impair any right consequent thereon.

(b) No failure or delay on the part of any Party in exercising any right, power, or privilege hereunder and no course of dealing between the parties shall operate as a waiver of any default or any such right, power or privilege.

(c) No waiver to this Agreement shall be binding unless in writing signed by the waiving Party.

If any term or provision of this Agreement or the application thereof to any persons or circumstances shall to any extent or for any reason be invalid or unenforceable, the remainder of this Agreement and the application of such terms or provisions to persons or circumstances other than those as to which it is held invalid or unenforceable shall not be affected thereby, and each such remaining term or provision of this Agreement shall be valid and enforced to the fullest extent permitted by law.

14.10 This Agreement may be executed in one or more counterparts, each of which so executed will constitute an original and all of which together will constitute one and the same agreement. This Agreement may be executed and delivered by fax or email (pdf) and shall upon such execution and delivery be fully enforceable.

APPENDIX 2

RFP

APPENDIX 3

CONSULTANT PROPOSAL

APPENDIX 4

PROTECTION OF PRIVACY

PROTECTION OF PRIVACY

This Appendix forms part of the agreement between:

MEMORIAL UNIVERSITY OF NEWFOUNDLAND (the "University")

and

the Consultant (as defined on the Cover Pages of this Agreement)

Respecting a Consultant's Agreement between the Owner and the Consultant dated as of the date hereof (the "Agreement").

Definitions

1. In this Appendix,

   (a) "Act" means the Access to Information and Protection of Privacy Act of Newfoundland and Labrador, as amended from time to time;

   (b) "Contact Information" means information to enable an individual at a place of business to be contacted and includes the name, position name or title, business telephone number, business address, business email or business fax number of the individual;

   (c) "Personal Information" means recorded information about an identifiable individual, other than Contact Information, collected or created by the Consultant as a result of the Agreement or any previous agreement between the University and the Consultant dealing with the same subject matter as the Agreement.

Purpose

2. The purpose of this Appendix is to:

   (a) Enable the University to comply with its statutory obligations under the Act with respect to Personal Information; and

   (b) Ensure that, as a service provider, the Consultant is aware of and complies with its statutory obligations under the Act with respect to Personal Information.

Collection of Personal Information

3. Unless the Agreement otherwise specifies or the University otherwise directs in writing, the Consultant may only collect or create Personal Information that is necessary for the performance of the Consultant's obligations, or the exercise of the Consultant's rights, under the Agreement.

4. Unless the Agreement otherwise specifies or the University otherwise directs in writing, the Consultant must collect Personal Information directly from the individual the information is about.

5. Unless the Agreement otherwise specifies or the University otherwise directs in writing, the Consultant must tell an individual from whom the Consultant collects Personal Information:

   (a) the purpose for collecting it;

   (b) the legal authority for collecting it; and

   (c) the title, business address and business telephone number of the person designated by the University to answer questions about the Consultant's collection of Personal Information.

Accuracy of Personal Information

6. The Consultant must make every reasonable effort to ensure the accuracy and completeness of any Personal Information to be used by the Consultant or the University to make a decision that directly affects the individual the information is about.

Requests for access to Personal Information

7. If the Consultant receives a request for access to Personal Information from a person other than the University, the Consultant must promptly advise the person to make the request to the University unless the Agreement expressly requires the Consultant to provide such access and, if the University has advised the Consultant of the name or title and Contact Information of an official of the University to whom such requests are to be made, the Consultant must also promptly provide that official's name or title and Contact Information to the person making the request.

Correction of Personal Information

8. Within 5 business days of receiving a written direction from the University to correct or annotate any Personal Information, the Consultant must annotate or correct the information in accordance with the direction.

9. When issuing a written direction under section 8, the University must advise the Consultant of the date the correction request to which the direction relates was received by the University in order that the Consultant may comply with section 10.

10. Within 5 business days of correcting or annotating any Personal Information under section 8, the Consultant must provide the corrected or annotated information to any party to whom, within one year prior to the date the correction request was made to the University, the Consultant disclosed the information being corrected or annotated.

11. If the Consultant receives a request for correction of Personal Information from a person other than the University, the Consultant must promptly advise the person to make the request to the University and, if the University has advised the Consultant of the name or title and Contact Information of an official of the University to whom such requests are to be made, the Consultant must also promptly provide that official's name or title and Contact Information to the person making the request.

Protection of Personal Information

12. The Consultant must protect Personal Information by making reasonable security arrangements against such risks as unauthorized access, collection, use, disclosure or disposal, including any expressly set out in the Agreement.

Retention of Personal Information

13. Unless the Agreement otherwise specifies, the Consultant must retain Personal Information until directed by the University in writing to dispose of it or deliver it as specified in the direction.

Use of Personal Information

14. Unless the University otherwise directs in writing, the Consultant may only use Personal Information if that use is:

    (a) for the performance of the Consultant's obligations, or the exercise of the Consultant's rights, under the Agreement; and

    (b) in accordance with section 13.

Disclosure of Personal Information

15. Unless the University otherwise directs in writing, the Consultant may only disclose Personal Information inside Canada to any person other than the University if the disclosure is for the performance of the Consultant's obligations, or the exercise of the Consultant's rights, under the Agreement.

Inspection of Personal Information

16. In addition to any other rights of inspection the University may have under the Agreement or under statute, the University may, at any reasonable time and on reasonable notice to the Consultant, enter on the Consultant's premises to inspect any Personal Information in the possession of the Consultant or any of the Consultant's information management policies or practices relevant to its management of Personal Information or its compliance with this Schedule and the Consultant must permit, and provide reasonable assistance to, any such inspection.

Compliance with the Act and directions

17. The Consultant must in relation to Personal Information comply with:

    (a) the requirements of the Act applicable to the Consultant as a service provider, and

    (b) any direction given by the University under this Appendix.

18. The Consultant acknowledges that it is familiar with the requirements of the Act governing Personal Information that are applicable to it as a service provider.

Notice of non-compliance

19. If for any reason the Consultant does not comply, or anticipates that it will be unable to comply, with a provision in this Appendix in any respect, the Consultant must promptly notify the University of the particulars of the non-compliance or anticipated non-compliance and what steps it proposes to take to address, or prevent recurrence of, the non-compliance or anticipated non-compliance.

Termination of Agreement

20. In addition to any other rights of termination which the University may have under the Agreement or otherwise at law, the University may, subject to any provisions in the Agreement establishing mandatory cure periods for defaults by the Consultant, terminate the Agreement by giving written notice of such termination to the Consultant, upon any failure of the Consultant to comply with this Appendix in a material respect.

Interpretation

21. In this Appendix, references to sections by number are to sections of this Appendix unless otherwise specified in this Appendix.

22. Any reference to the "Consultant" in this Appendix includes any sub-consultant or agent retained by the Consultant to perform obligations under the Agreement and the Consultant must ensure that any such sub-consultants and agents comply with this Appendix.

23. The obligations of the Consultant in this Appendix will survive the termination of the Agreement.

24. If a provision of the Agreement (including any direction given by the University under this Appendix) conflicts with a requirement of the Act or an applicable order of the Commissioner under the Act, the conflicting provision of the Agreement (or direction) will be inoperative to the extent of the conflict.

25. The Consultant must comply with the provisions of this Appendix despite any conflicting provision of this Agreement or the law of any jurisdiction outside Canada.

APPENDIX 5

INITIAL SERVICES SCHEDULE

APPENDIX 6

REIMBURSEMENT REQUIREMENTS

Department of Facilities Management
Consultant Reimbursable Expenses Guidelines

Direct Expenses

Expenses incurred by the Consultant on behalf of the Memorial University related to the provision of the Consultant's services and the production of instruments of services, such as computer models, drawings and specifications, as a result of designing, documenting, bidding and constructing a building shall be reimbursed at cost and not covered by professional fees. All reimbursable expenses shall be supported by copies of invoices for said costs.

Reimbursable expenses shall include, but are not limited to:

- Communication and shipping costs (long distance charges, courier, postage, dedicated web hosting, etc.);
- Reproduction costs for plans, sketches, drawings, graphic representations and other documents;
- Renderings, models, prints of computer-generated drawings, mock-ups specifically requested by the University;
- Special computer modeling and documentation;
- Certification and documentation costs for third party certification such as LEED;
- Fees, levies, duties or taxes for permits, licences, or approvals for Authorities Having Jurisdiction.

Travel

All travel at University expense must occur by the most economical mode of transportation that is available and practical, while considering the purpose and the urgency of the trip. Reasonable expenses will be reimbursed at cost. No markup or overhead charge will be paid. Consultants will be expected to follow the University policy Travel–General as applicable unless agreed otherwise. The policy is available at http://www.mun.ca/policy/site/policy.php?id=232. In addition the following shall apply:

1. Air travel should not exceed full economy fare. Business class (or equivalent) will not be reimbursed.
2. Meal per diems shall be as set out in the policy for Per Diem Allowances.
3. Alcohol will be not be reimbursed.
4. Hosting expenses or other entertainment expenses will not be reimbursed. These are considered the consultants' cost if incurred.
5. Mileage within a 25 kilometer radius of the Consultant's office is not considered a reimbursable expense. Mileage will only be reimbursed for travel beyond this 25 kilometer radius.

APPENDIX H – HEALTH AND SAFETY ORIENTATION

Health and Safety Orientation

MAY 2022

www.mun.ca

Welcome to Memorial University

Memorial is committed to developing, maintaining, implementing and continuously improving a safe and healthy work, teaching and learning environment. Prior to starting work at Memorial it is important that you are aware of the following health and safety information.

Health and Safety Information

Emergency Response

- To report an emergency (dialed from a campus phone, otherwise dial 864-XXXX):
  - St. John's Campus – 4100
  - Health Sciences Centre - 4100
  - Ocean Sciences Centre – 9-911*
  - Marine Institute – 9-911*
  - Grenfell – 2888

*when utilizing 911, a follow up call should be made to St. John's Campus Enforcement and Patrol (CEP) 4100.

Incident Reporting and MUN Safe

- **All** health and safety incidents must be reported to your Memorial Representative and an incident report completed
- Download the MUN Safe app to quickly access campus resources 24/7 such as emergency push notifications, emergency procedures, incident reporting and more.
  - Report hazard observations and near misses via MUN Safe

First Aid and AEDs

- In case of an injury, first aid kits are located in all office suites and laboratories
- All workplaces have AEDs as well as trained first aid responders, names posted throughout the buildings.

Emergency Evacuations

- Ensure you are aware of the primary and secondary.
- The building fire alarm system can be activated at the nearest fire alarm pull station.
- Emergency evacuation and location plans are posted on each in each building. Exit the building immediately upon activation of the alarm and proceed to the building's assembly point.
  - Mobility impaired individuals must proceed to the nearest stairwell and inform an emergency warden of their location

Working Alone

- If activities involve lone work then a check-in process must be developed in consultation with your Memorial Representative.

Communicable Disease

- Practice good hand hygiene and cough/sneeze into your arm
- Do not come to campus if feeling unwell

Other

- Memorial is a smoke-free campus
- Speed limit on Memorial road is 30 km/hr, be mindful of the many pedestrians on campus
- Obey all posted signage

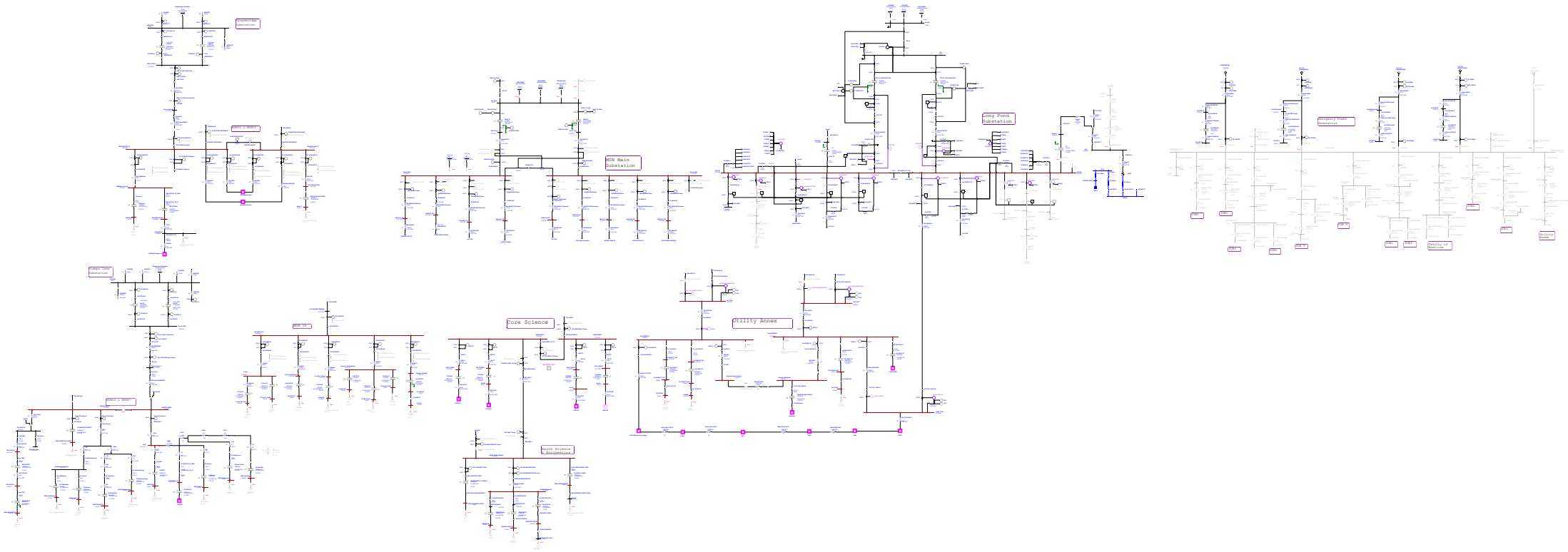
Contact us

Environmental Health and Safety
Office of the Chief Risk Officer
E: health.safety@mun.ca
www. mun.ca

This is one in a series of informational fact sheets highlighting Environmental Health and Safety.

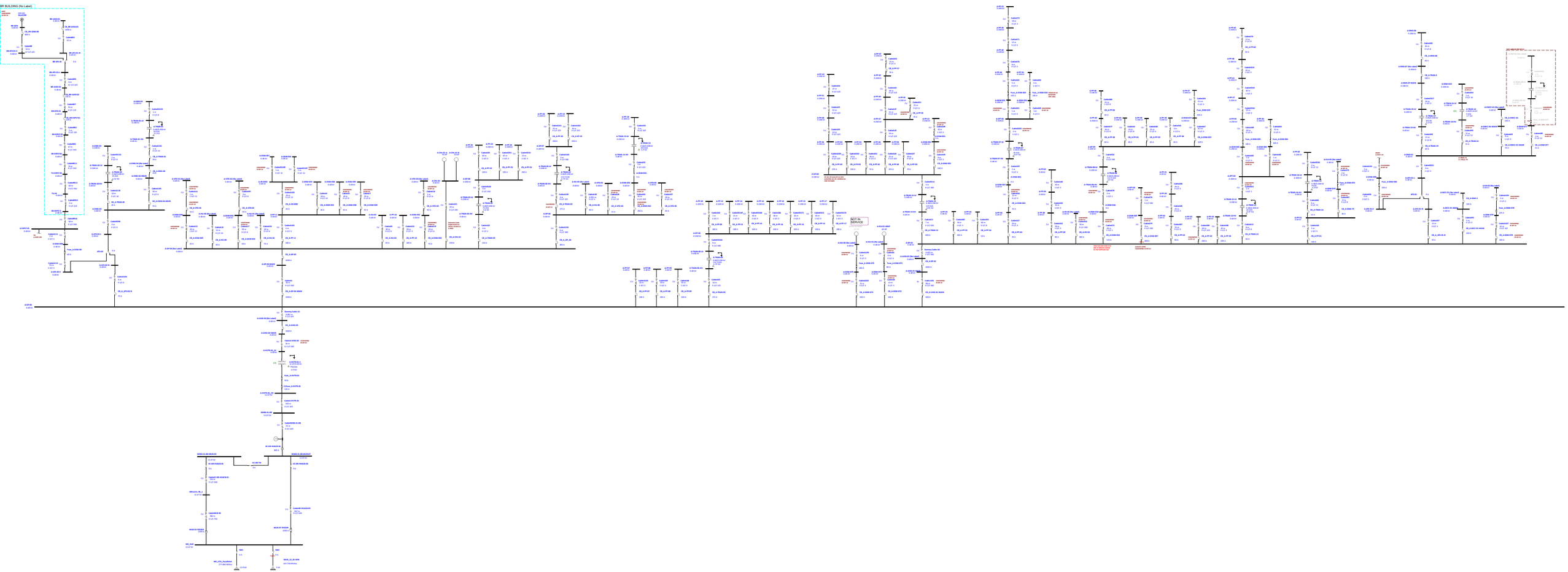
APPENDIX I – HIGH VOLTAGE ETAP MODEL

One-Line Diagram - OLV1 | Star - Protection & Coordination | SM



APPENDIX J – EXISTING ETAP MODELS

One-Line Diagram - Arts & Administration

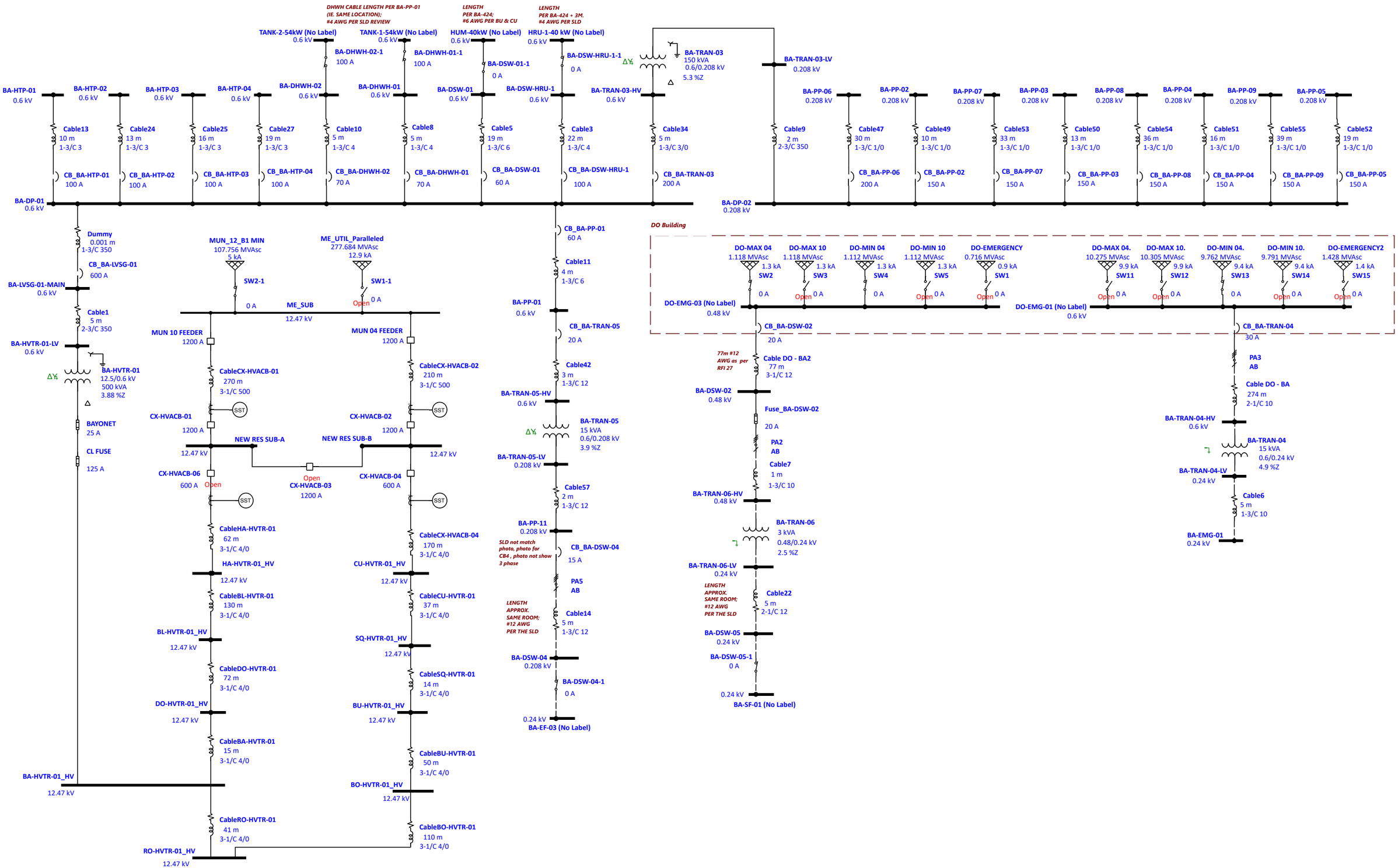


Arc Flash Labels for Panels

VDP_TAG	VDP_INCIDENT	VDP_WORKING	VDP_ARCFLASH	VDP_NOMINAL	VDP_PERFORMED	VDP_Limited	VDP_Restricted	VDP_Gloves	VDP_Equipment	VDP_Location	VDP_Fed From
A-ATS-01-E	0.07 cal/cm²	610mm (24in)	100mm (4in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	A-1018A	A-DSW-003_Fuse_A-DSW-003
A-ATS-01-N	0.09 cal/cm²	610mm (24in)	121mm (5in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	A-1018A	A-DP-01_CB_ATS-01-N
A-ATS-02-E	0.03 cal/cm²	610mm (24in)	59mm (2in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	A-0001A	A-DSW-008_Fuse_A-DSW-08
A-ATS-02-N	0.27 cal/cm²	610mm (24in)	237mm (9in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	A-0001A	A-DP-03_CB_A_ATS-02-N
A-CHL-01	0.36 cal/cm²	457mm (18in)	214mm (8in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-5002	A-DP-05_CB_A_CHL_01
A-DP-01	0.1 cal/cm²	610mm (24in)	132mm (5in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	A-1018A	A-LVSG-01_CB_A-DP-01
A-DP-02	776.4 cal/cm²	610mm (24in)	34980mm (1377in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	A-1018A	A-DP-01_CB_A-TRAN-15
A-DP-03	6.96 cal/cm²	610mm (24in)	1831mm (72in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	A-0001A	A-LVSG-02_CB_A-LVSG-02
A-DP-04	235.44 cal/cm²	610mm (24in)	16579mm (653in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	A-0001A	A-DP-03_CB_A-TRAN-05
A-DP-05-MAIN	1 cal/cm²	610mm (24in)	545mm (21in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	A-5002	A-DP-03_CB_A-DP-05-MAIN
A-DP-06	0.31 cal/cm²	610mm (24in)	261mm (10in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	A-5002	A-DP-05_CB_A_DP_06
A-DP-07	234.67 cal/cm²	610mm (24in)	16545mm (651in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	A-5002	A-DP-06_CB_A-TRAN-02
A-DP-08	173.47 cal/cm²	610mm (24in)	13695mm (539in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	A-5002	A-DP-05_CB_A-TRAN-03
A-DP-09	138.42 cal/cm²	610mm (24in)	11891mm (468in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	A-1013	A-DSW-018_CB_A-DSW-018
A-DSW-001	0.09 cal/cm²	457mm (18in)	90mm (4in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-1018A	A-DP-02_CB_A-DSW-001
A-DSW-003	0.09 cal/cm²	457mm (18in)	93mm (4in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-1018A	A-ESPLT-01_CB_BR-ESPLT-01
A-DSW-005	18.32 cal/cm²	457mm (18in)	2516mm (99in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-1018A	A-DP-01_CB_A-TRAN-12
A-DSW-006	18.32 cal/cm²	457mm (18in)	2516mm (99in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-1018A	A-DP-01_CB_A-TRAN-12
A-DSW-008	0.09 cal/cm²	457mm (18in)	93mm (4in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-1018A	A-ESPLT-01_CB_BR-ESPLT-01
A-DSW-010	1.94 cal/cm²	457mm (18in)	617mm (24in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-1018A	A-EMG-01_CB_A-TRAN-16
A-DSW-018	0.11 cal/cm²	457mm (18in)	101mm (4in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-1013	A-DP-01_CB_A-DSW-018
A-DSW-019	0.06 cal/cm²	457mm (18in)	67mm (3in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-1013	A-DP-09_CB_A-DSW-019
A-DSW-024	0.1 cal/cm²	457mm (18in)	96mm (4in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-1029A	A-PP-64_CB_A-DSW-024
A-DSW-025	26.55 cal/cm²	457mm (18in)	3173mm (125in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-1029	A-PP-64_CB_A-DSW-024
A-DSW-026	26.55 cal/cm²	457mm (18in)	3173mm (125in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-1029	A-PP-64_CB_A-DSW-024
A-DSW-032	0.24 cal/cm²	457mm (18in)	165mm (6in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-5003A	A-DP-06_CB_A-DSW-032
A-DSW-049	0.04 cal/cm²	457mm (18in)	51mm (2in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-5002	A-DP-05_CB_A-DSW-049
A-DSW-050	0.12 cal/cm²	457mm (18in)	110mm (4in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-5002	A-DP-05_CB_A-DSW-050
A-DSW-052	0.18 cal/cm²	457mm (18in)	137mm (5in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-5002	A-DP-05_CB_A-DSW-052
A-DSW-055	0.08 cal/cm²	457mm (18in)	81mm (3in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-5002	A-PP-11_CB_A-DSW-055
A-DSW-056	0.05 cal/cm²	457mm (18in)	59mm (2in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-5002	A-PP-11_CB_A-JB-5002
A-DSW-057	0.05 cal/cm²	457mm (18in)	59mm (2in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-5002	A-PP-11_CB_A-JB-5002
A-DSW-058	0.11 cal/cm²	457mm (18in)	105mm (4in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-5002	A-PP-11_CB_A-DSW-058
A-DSW-059	0.11 cal/cm²	457mm (18in)	105mm (4in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-5002	A-PP-11_CB_A-DSW-059
A-DSW-070	0.07 cal/cm²	457mm (18in)	79mm (3in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-1018A	A-PP-01_CB_A-DSW-70
A-DSW-072	0.33 cal/cm²	457mm (18in)	204mm (8in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-0001C	A-DP-03_CB_A-DSW-072
A-DSW-075	0.33 cal/cm²	457mm (18in)	203mm (8in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-0001C	A-DP-03_CB_A-DSW-075
A-DSW-077	0.11 cal/cm²	457mm (18in)	103mm (4in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-1018A	A-EMG-01_CB_A-DSW-077
A-DSW-078	0.11 cal/cm²	457mm (18in)	104mm (4in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-1C01	A-DP-01_CB_A-DSW-078
A-EMCC-01-MAIN	0.11 cal/cm²	457mm (18in)	102mm (4in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	MCC	A-1018A	A-EMG-01_CB_A-EMCC-01-MAIN
A-EMG-01	0.12 cal/cm²	457mm (18in)	107mm (4in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-1018A	A-ATS-01
A-EMG-02	4.1 cal/cm²	457mm (18in)	985mm (39in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-0001A	A-EMG-03_CB_A-TRAN-20
A-EMG-03	0.33 cal/cm²	457mm (18in)	205mm (8in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-0001A	A-ATS-02
A-EMG-04-MAIN	0.11 cal/cm²	457mm (18in)	100mm (4in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-5002	A-EMG-03_CB_A-EMG-04-MAIN
A-EMG-05	4.09 cal/cm²	457mm (18in)	983mm (39in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-5002	A-EMG-04_CB_A-TRAN-01
A-EMG-07-MAIN	5.81 cal/cm²	457mm (18in)	1225mm (48in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-1047	A-EMG-01_CB_A-TRAN-19
A-EMG-08	4.41 cal/cm²	457mm (18in)	1032mm (41in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-3045	A-EMG-07_CB_A-EMG-08
A-ESPLT-01	0.09 cal/cm²	457mm (18in)	92mm (4in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-1018	BR-DPE-01_CB_BR-ESPLT-01
A-HU-02	0.12 cal/cm²	457mm (18in)	110mm (4in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-5002	A-DP-05_CB_A-HU-02
A-HVTR-01_HV	2.53 cal/cm²	914mm (36in)	1471mm (58in)	12470VAC	Thursday, March 26, 2026	1.5m (60in)	658mm (26in)	2	Cable Bus	PADMOUNT	IIC-GR-HVACB-04_IIC-GR-HVACB-04
A-HVTR-01_LV	30.65 cal/cm²	457mm (18in)	3472mm (137in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	PADMOUNT	BAY-O-NET_Fuse_A-HVTR-01
A-JB-5002	0.05 cal/cm²	457mm (18in)	61mm (2in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-5002	A-PP-11_CB_A-JB-5002
A-LVSG-01 MAIN	0.1 cal/cm²	610mm (24in)	132mm (5in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Switchgear	A-1018A	A-DP-03_CB_A-LVSG-01-MAIN
A-LVSG-02-MAIN	29.58 cal/cm²	610mm (24in)	4527mm (178in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Switchgear	A-0001A	A-HVTR-01_Fuse_BAY O NET
A-MCC-01-MAIN	0.14 cal/cm²	457mm (18in)	118mm (5in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	MCC	A-1018A	A-DP-01_CB_A-MCC-01-MAIN
A-PP-01	0.14 cal/cm²	457mm (18in)	120mm (5in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-1018A	A-DP-01_CB_A-PP-01
A-PP-02	1.64 cal/cm²	457mm (18in)	555mm (22in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-1018A	A-PP-01_CB_A-TRAN-14
A-PP-03	0.07 cal/cm²	457mm (18in)	80mm (3in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-1018A	A-DP-02_CB_A-PP-03
A-PP-05	0.07 cal/cm²	457mm (18in)	78mm (3in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-0001A	A-DP-04_CB_A-PP-05
A-PP-06	1.1 cal/cm²	457mm (18in)	432mm (17in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-1011A	A-PP-40_CB_A-PP-06
A-PP-07	0.24 cal/cm²	457mm (18in)	168mm (7in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-1C03	A-DP-03_CB_A-PP-07
A-PP-08	0.2 cal/cm²	457mm (18in)	148mm (6in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-2C06	A-DP-03_CB_A-PP-08
A-PP-09	0.18 cal/cm²	457mm (18in)	137mm (5in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-3C03	A-DP-03_CB_A-PP-09
A-PP-10	0.21 cal/cm²	457mm (18in)	151mm (6in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-4C03	A-DP-05_CB_A-PP-10
A-PP-11	0.45 cal/cm²	457mm (18in)	246mm (10in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-5002	A-DP-05_CB_A-PP-11

A-PP-12	3.79 cal/cm²	457mm (18in)	939mm (37in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-1C03	A-DP-04_CB_A-PP-12
A-PP-13	6.36 cal/cm²	457mm (18in)	1298mm (51in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-1C03	A-DP-04_CB_A-PP-13
A-PP-14	5.12 cal/cm²	457mm (18in)	1133mm (45in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-2C06	A-DP-04_CB_A-PP-14
A-PP-15	5.12 cal/cm²	457mm (18in)	1133mm (45in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-2C06	A-DP-04_CB_A-PP-15
A-PP-16	5.92 cal/cm²	457mm (18in)	1241mm (49in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-3C03	A-DP-04_CB_A-PP-16
A-PP-17	7.33 cal/cm²	457mm (18in)	1418mm (56in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-3C03	A-DP-04_CB_A-PP-17
A-PP-18	543.8 cal/cm²	457mm (18in)	20996mm (827in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-5001	A-DSW-032_No Fuse
A-PP-19	52.85 cal/cm²	457mm (18in)	4882mm (192in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-5C01	A-DP-07_CB_A-PP-19
A-PP-20	73.46 cal/cm²	457mm (18in)	5999mm (236in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-5015	A-DP-07_CB_A-PP-20
A-PP-21	4.18 cal/cm²	457mm (18in)	998mm (39in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-1C03	A-DSW-001_CB_A-DSW-001
A-PP-22	7.36 cal/cm²	457mm (18in)	1421mm (56in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-4C03	A-DP-08_CB_A-PP-22
A-PP-23	7.88 cal/cm²	457mm (18in)	1484mm (58in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-4C03	A-DP-08_CB_A-PP-23
A-PP-24	5.29 cal/cm²	457mm (18in)	1157mm (46in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-5002	A-DP-08_CB_A-PP-24
A-PP-25	0.11 cal/cm²	457mm (18in)	102mm (4in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-1C01	A-DP-01_CB_A-PP-25
A-PP-26	0.05 cal/cm²	457mm (18in)	63mm (2in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-1013	A-DP-01_CB_A-PP-26
A-PP-27	3.27 cal/cm²	457mm (18in)	855mm (34in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-2C04	A-DP-01_Fuse_A-DSW-005
A-PP-28	0.11 cal/cm²	457mm (18in)	102mm (4in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-2S04	A-DP-01_CB_A-PP-28
A-PP-29	0.1 cal/cm²	457mm (18in)	94mm (4in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-3S04	A-DP-01_CB_A-PP-28
A-PP-30	0.08 cal/cm²	457mm (18in)	83mm (3in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-3C01	A-DP-01_CB_A-PP-63
A-PP-31	26.16 cal/cm²	457mm (18in)	3144mm (124in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-4C01	A-DP-01_CB_A-PP-63
A-PP-32	0.11 cal/cm²	457mm (18in)	103mm (4in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-3C01	A-DP-01_CB_A-PP-32
A-PP-33	0.11 cal/cm²	457mm (18in)	105mm (4in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-2001A	A-DP-01_CB_A-PP-33
A-PP-34	11.95 cal/cm²	457mm (18in)	1926mm (76in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-1029A	A-DSW-026_Fuse_A-DSW-026
A-PP-35	0.85 cal/cm²	457mm (18in)	369mm (15in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-1C01	A-DSW-005_Fuse_A-DSW-005
A-PP-36	0.99 cal/cm²	457mm (18in)	406mm (16in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-1C01	A-DSW-006_Fuse_A-DSW-006
A-PP-37	0.05 cal/cm²	457mm (18in)	66mm (3in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-1013G	A-DSW-019_Fuse_A-DSW-019
A-PP-38	0.06 cal/cm²	457mm (18in)	70mm (3in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-1013	A-DP-09_CB_A-PP-38
A-PP-39	0.03 cal/cm²	457mm (18in)	42mm (2in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-1014	A-DP-09_CB_A-PP-39
A-PP-40	1.24 cal/cm²	457mm (18in)	467mm (18in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-1C01	A-DP-09_CB_A-PP-40
A-PP-41	36.1 cal/cm²	457mm (18in)	3846mm (151in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-4S04	A-DSW-025_Fuse_A-DSW-025
A-PP-42	21.66 cal/cm²	457mm (18in)	2794mm (110in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-2S04	A-DSW-025_Fuse_A-DSW-025
A-PP-43	27.33 cal/cm²	457mm (18in)	3231mm (127in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-3S04	A-DSW-025_Fuse_A-DSW-025
A-PP-44	18.21 cal/cm²	457mm (18in)	2507mm (99in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-1C01	A-DSW-025_Fuse_A-DSW-025
A-PP-45	25.7 cal/cm²	457mm (18in)	3110mm (122in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-1C01	A-DP-02_CB_A-PP-45
A-PP-46	25.05 cal/cm²	457mm (18in)	3060mm (120in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-1C01	A-DP-02_CB_A-PP-46
A-PP-47	32.65 cal/cm²	457mm (18in)	3611mm (142in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-2C02	A-DP-02_CB_A-PP-46
A-PP-48	33.19 cal/cm²	457mm (18in)	3649mm (144in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A2C04	A-DP-02_CB_A-PP-45
A-PP-49	47.56 cal/cm²	457mm (18in)	4570mm (180in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-3C01	A-DP-02_CB_A-PP-46
A-PP-50	2.13 cal/cm²	457mm (18in)	654mm (26in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-3026A	A-DP-02_CB_A-PP-50
A-PP-51	43.26 cal/cm²	457mm (18in)	4307mm (170in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-3C01	A-DP-02_CB_A-PP-45
A-PP-52	84.88 cal/cm²	457mm (18in)	6567mm (259in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-4C01	A-DP-02_CB_A-PP-46
A-PP-53	60.71 cal/cm²	457mm (18in)	5325mm (210in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-4017	A-DP-02_CB_A-PP-45
A-PP-54	2.09 cal/cm²	457mm (18in)	647mm (25in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-2001A	A-DP-02_CB_A-PP-54
A-PP-55	0.04 cal/cm²	457mm (18in)	58mm (2in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-2022	A-PP-47_CB_A-PP-55
A-PP-57	4.09 cal/cm²	457mm (18in)	985mm (39in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-4023	A-PP-52_CB_A-PP-57
A-PP-58	40.18 cal/cm²	457mm (18in)	4113mm (162in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-4C01	A-DSW-005_Fuse_A-DSW-005
A-PP-60	3.49 cal/cm²	457mm (18in)	891mm (35in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-4C01	A-PP-58_CB_A-PP-60
A-PP-61	10.45 cal/cm²	457mm (18in)	1771mm (70in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-3C01	A-DSW-005_Fuse_A-DSW-005
A-PP-62	0.07 cal/cm²	457mm (18in)	76mm (3in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-4S04	A-DP-01_CB_A-PP-28
A-PP-63	0.12 cal/cm²	457mm (18in)	107mm (4in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-2C04	A-DP-01_CB_A-PP-63
A-PP-64	0.12 cal/cm²	457mm (18in)	107mm (4in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-1S04	A-DP-01_CB_A-PP-64
A-PP-65	0.74 cal/cm²	457mm (18in)	338mm (13in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-1014	A-DP-09_CB_A-PP-65
A-SPT-01	26.15 cal/cm²	457mm (18in)	3143mm (124in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-1029A	A-DSW-024_No Fuse
A-SPT-03	18.01 cal/cm²	457mm (18in)	2489mm (98in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-1018A	A-DP-01_CB_A-TRAN-12
A-TRAN-01-HV	0.08 cal/cm²	457mm (18in)	83mm (3in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	A-5002	A-EMG-04_CB_A-TRAN-01
A-TRAN-01-LV	3.24 cal/cm²	457mm (18in)	849mm (33in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	A-5002	A-EMG-04_CB_A-TRAN-01
A-TRAN-02-HV	0.37 cal/cm²	457mm (18in)	218mm (9in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	A-5002	A-DP-06_CB_A-TRAN-02
A-TRAN-02-LV	249.88 cal/cm²	457mm (18in)	12907mm (508in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	A-5002	A-DP-06_CB_A-TRAN-02
A-TRAN-03-HV	0.4 cal/cm²	457mm (18in)	231mm (9in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	A-5002	A-DP-05_CB_A-TRAN-03
A-TRAN-03-LV	180.92 cal/cm²	457mm (18in)	10545mm (415in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	A-5003	A-DP-06_CB_A-TRAN-03
A-TRAN-05-HV	0.4 cal/cm²	457mm (18in)	230mm (9in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	A-0001A	A-DP-03_CB_A-TRAN-05
A-TRAN-05-LV	249.21 cal/cm²	457mm (18in)	12885mm (507in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	A-0001A	A-DP-03_CB_A-TRAN-05
A-TRAN-07-HV	0.08 cal/cm²	457mm (18in)	87mm (3in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	A-1029A	A-PP-64_CB_A-DSW-024
A-TRAN-07-LV	17.37 cal/cm²	457mm (18in)	2433mm (96in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	A-1029A	A-PP-64_CB_A-DSW-024
A-TRAN-08-HV	0.09 cal/cm²	457mm (18in)	90mm (4in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	A-1013	A-DSW-018_CB_A-DSW-018
A-TRAN-08-LV	148.78 cal/cm²	457mm (18in)	9330mm (367in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	A-1013	A-DSW-018_CB_A-DSW-018
A-TRAN-12-HV	0.1 cal/cm²	457mm (18in)	98mm (4in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	A-1018A	A-DP-01_CB_A-TRAN-12
A-TRAN-12-LV	11.81 cal/cm²	457mm (18in)	1911mm (75in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	A-1018A	A-DP-01_CB_A-TRAN-12
A-TRAN-13-HV	0.2 cal/cm²	457mm (18in)	151mm (6in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	A-5003A	A-DSW-032_CB_A-DSW-032

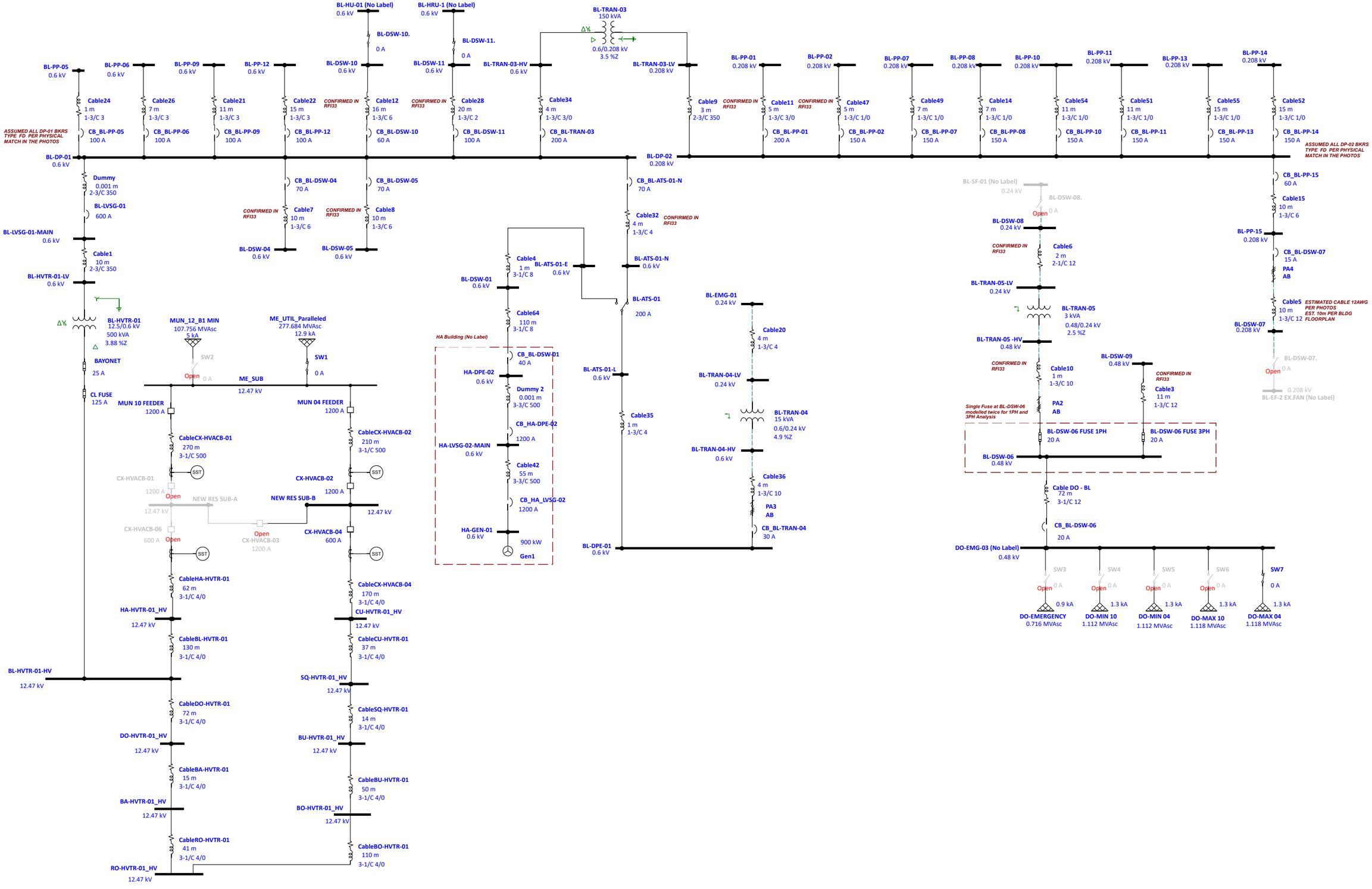
A-TRAN-13-LV	393.36 cal/cm²	457mm (18in)	17144mm (675in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	A-5003A	A-DSW-032_CB_A-DSW-032
A-TRAN-14-HV	0.09 cal/cm²	457mm (18in)	92mm (4in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	A-1018A	A-PP-01_CB_A-TRAN-14
A-TRAN-14-LV	1.13 cal/cm²	457mm (18in)	441mm (17in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	A-1018A	A-PP-01_CB_A-TRAN-14
A-TRAN-15-HV	0.13 cal/cm²	457mm (18in)	114mm (4in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	A-1018A	A-DP-01_CB_A-TRAN-15
A-TRAN-15-LV	705.25 cal/cm²	457mm (18in)	24706mm (973in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	A-1018A	A-DP-01_CB_A-TRAN-15
A-TRAN-16-HV	0.05 cal/cm²	457mm (18in)	65mm (3in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	A-1018A	A-EMG-01_CB_A-TRAN-16
A-TRAN-16-LV	1.55 cal/cm²	457mm (18in)	537mm (21in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	A-1018A	A-EMG-01_CB_A-TRAN-16
A-TRAN-19-HV	0.27 cal/cm²	457mm (18in)	175mm (7in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	A-1018A	A-EMG-01_CB_A-TRAN-19
A-TRAN-19-LV	4.2 cal/cm²	457mm (18in)	999mm (39in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	A-1018A	A-EMG-01_CB_A-TRAN-19
A-TRAN-20-HV	0.11 cal/cm²	457mm (18in)	100mm (4in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	A-1018A	A-EMG-03_CB_A-TRAN-20
A-TRAN-20-LV	3.26 cal/cm²	457mm (18in)	853mm (34in)	208VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	A-1018A	A-EMG-03_CB_A-TRAN-20
A-VFD-04	0.08 cal/cm²	457mm (18in)	83mm (3in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-5002	A-DP-06_CB_A-VFD-04
A-VFD-05	0.08 cal/cm²	457mm (18in)	83mm (3in)	480VAC	Thursday, March 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	A-5002	A-DP-06_CB_A-VFD-05


DHWH CABLE LENGTH PER BA-PP-01 (IE. SAME LOCATION); #4 AWG PER SLD REVIEW
LENGTH PER BA-424; #6 AWG PER BU & CU
LENGTH PER BA-424 + 3M. #4 AWG PER SLD
TANK-2-54kW (No Label) 0.6 kV
TANK-1-54kW (No Label) 0.6 kV
HUM-40kW (No Label) 0.6 kV
HRU-1-40 kW (No Label) 0.6 kV
BA-DHWH-02-1 100 A
BA-DHWH-01-1 100 A
BA-DSW-01-1 0 A
BA-DSW-HRU-1-1 0 A
BA-TRAN-03 150 kVA 0.6/0.208 kV 5.3 %Z
BA-TRAN-03-LV 0.208 kV
BA-TRAN-03-HV 0.6 kV
BA-HTP-01 0.6 kV
BA-HTP-02 0.6 kV
BA-HTP-03 0.6 kV
BA-HTP-04 0.6 kV
BA-DHWH-02 0.6 kV
BA-DHWH-01 0.6 kV
BA-DSW-01 0.6 kV
BA-DSW-HRU-1 0.6 kV
Cable13 10 m 1-3/C 3
Cable24 13 m 1-3/C 3
Cable25 16 m 1-3/C 3
Cable27 19 m 1-3/C 3
Cable10 5 m 1-3/C 4
Cable8 5 m 1-3/C 4
Cable5 19 m 1-3/C 6
Cable3 22 m 1-3/C 4
Cable34 5 m 1-3/C 3/0
CB_BA-HTP-01 100 A
CB_BA-HTP-02 100 A
CB_BA-HTP-03 100 A
CB_BA-HTP-04 100 A
CB_BA-DHWH-02 70 A
CB_BA-DHWH-01 70 A
CB_BA-DSW-01 60 A
CB_BA-DSW-HRU-1 100 A
CB_BA-TRAN-03 200 A
BA-DP-01 0.6 kV
BA-DP-02 0.208 kV
BA-PP-06 0.208 kV
BA-PP-02 0.208 kV
BA-PP-07 0.208 kV
BA-PP-03 0.208 kV
BA-PP-08 0.208 kV
BA-PP-04 0.208 kV
BA-PP-09 0.208 kV
BA-PP-05 0.208 kV
Cable9 2 m 2-3/C 350
Cable47 30 m 1-3/C 1/0
Cable49 10 m 1-3/C 1/0
Cable53 33 m 1-3/C 1/0
Cable50 13 m 1-3/C 1/0
Cable54 36 m 1-3/C 1/0
Cable51 16 m 1-3/C 1/0
Cable55 39 m 1-3/C 1/0
Cable52 19 m 1-3/C 1/0
CB_BA-PP-06 200 A
CB_BA-PP-02 150 A
CB_BA-PP-07 150 A
CB_BA-PP-03 150 A
CB_BA-PP-08 150 A
CB_BA-PP-04 150 A
CB_BA-PP-09 150 A
CB_BA-PP-05 150 A
Dummy 0.001 m 1-3/C 350
CB_BA-LVSG-01 600 A
BA-LVSG-01-MAIN 0.6 kV
Cable1 5 m 2-3/C 350
BA-HVTR-01-LV 0.6 kV
BA-HVTR-01 12.5/0.6 kV 500 kVA 3.88 %Z
BAYONET 25 A
CL FUSE 125 A
MUN_12_B1 MIN 107.756 MVAsc 5 kA
ME_UTIL_Paralleled 277.684 MVAsc 12.9 kA
SW2-1 0 A
SW1-1 Open 0 A
ME_SUB 12.47 kV
MUN 10 FEEDER 1200 A
MUN 04 FEEDER 1200 A
CableCX-HVACB-01 270 m 3-1/C 500
CableCX-HVACB-02 210 m 3-1/C 500
CX-HVACB-01 1200 A
CX-HVACB-02 1200 A
NEW RES SUB-A 12.47 kV
NEW RES SUB-B 12.47 kV
CX-HVACB-06 600 A Open
CX-HVACB-03 Open 1200 A
CX-HVACB-04 600 A
CableHA-HVTR-01 62 m 3-1/C 4/0
CableCX-HVACB-04 170 m 3-1/C 4/0
HA-HVTR-01_HV 12.47 kV
CU-HVTR-01_HV 12.47 kV
CableBL-HVTR-01 130 m 3-1/C 4/0
CableCU-HVTR-01 37 m 3-1/C 4/0
BL-HVTR-01_HV 12.47 kV
SQ-HVTR-01_HV 12.47 kV
CableDO-HVTR-01 72 m 3-1/C 4/0
CableSQ-HVTR-01 14 m 3-1/C 4/0
DO-HVTR-01_HV 12.47 kV
BU-HVTR-01_HV 12.47 kV
CableBA-HVTR-01 15 m 3-1/C 4/0
CableBU-HVTR-01 50 m 3-1/C 4/0
BA-HVTR-01_HV 12.47 kV
BO-HVTR-01_HV 12.47 kV
CableRO-HVTR-01 41 m 3-1/C 4/0
CableBO-HVTR-01 110 m 3-1/C 4/0
RO-HVTR-01_HV 12.47 kV
CB_BA-PP-01 60 A
Cable11 4 m 1-3/C 6
BA-PP-01 0.6 kV
CB_BA-TRAN-05 20 A
Cable42 3 m 1-3/C 12
BA-TRAN-05-HV 0.6 kV
BA-TRAN-05 15 kVA 0.6/0.208 kV 3.9 %Z
BA-TRAN-05-LV 0.208 kV
Cable57 2 m 1-3/C 12
BA-PP-11 0.208 kV
SLD not match photo, photo for CB4 , photo not show 3 phase
CB_BA-DSW-04 15 A
PA5 AB
LENGTH APPROX. SAME ROOM; #12 AWG PER THE SLD
Cable14 5 m 1-3/C 12
BA-DSW-04 0.208 kV
BA-DSW-04-1 0 A
0.24 kV
BA-EF-03 (No Label)
DO Building
DO-MAX 04 1.118 MVAsc 1.3 kA SW2 0 A
DO-MAX 10 1.118 MVAsc 1.3 kA SW3 Open 0 A
DO-MIN 04 1.112 MVAsc 1.3 kA SW4 0 A
DO-MIN 10 1.112 MVAsc 1.3 kA SW5 Open 0 A
DO-EMERGENCY 0.716 MVAsc 0.9 kA SW1 Open 0 A
DO-EMG-03 (No Label) 0.48 kV
CB_BA-DSW-02 20 A
77m #12 AWG as per RFI 27
Cable DO - BA2 77 m 3-1/C 12
BA-DSW-02 0.48 kV
Fuse_BA-DSW-02 20 A
PA2 AB
Cable7 1 m 1-3/C 10
BA-TRAN-06-HV 0.48 kV
BA-TRAN-06 3 kVA 0.48/0.24 kV 2.5 %Z
BA-TRAN-06-LV 0.24 kV
LENGTH APPROX. SAME ROOM; #12 AWG PER THE SLD
Cable22 5 m 2-1/C 12
BA-DSW-05 0.24 kV
BA-DSW-05-1 0 A
0.24 kV
BA-SF-01 (No Label)
DO-MAX 04. 10.275 MVAsc 9.9 kA SW11 Open 0 A
DO-MAX 10. 10.305 MVAsc 9.9 kA SW12 Open 0 A
DO-MIN 04. 9.762 MVAsc 9.4 kA SW13 0 A
DO-MIN 10. 9.791 MVAsc 9.4 kA SW14 Open 0 A
DO-EMERGENCY2 1.428 MVAsc 1.4 kA SW15 Open 0 A
DO-EMG-01 (No Label) 0.6 kV
CB_BA-TRAN-04 30 A
PA3 AB
Cable DO - BA 274 m 2-1/C 10
BA-TRAN-04-HV 0.6 kV
BA-TRAN-04 15 kVA 0.6/0.24 kV 4.9 %Z
BA-TRAN-04-LV 0.24 kV
Cable6 5 m 1-3/C 10
BA-EMG-01 0.24 kV

Arc Flash Labels for Panels

VDP_TAG	VDP_INCIDENT	VDP_WORKING	VDP_ARCFLASH	VDP_NOMINAL	VDP_PERFORMED	VDP_Limited	VDP_Restricted	VDP_Gloves	VDP_Equipment	VDP_Location	VDP_Fed From
BA-DHWH-01	0.33 cal/cm²	457mm (18in)	205mm (8in)	600VAC	Monday, December 15, 2025	1.1m (42in)	305mm (12in)	0	Panelboard		BA-DP-01_CB_BA-DHWH-01
BA-DHWH-02	0.33 cal/cm²	457mm (18in)	205mm (8in)	600VAC	Monday, December 15, 2025	1.1m (42in)	305mm (12in)	0	Panelboard		BA-DP-01_CB_BA-DHWH-02
BA-DP-01	0.73 cal/cm²	610mm (24in)	446mm (18in)	600VAC	Monday, December 15, 2025	1.1m (42in)	305mm (12in)	0	Switchboard	BA-115A	BA-LVSG-01_CB_BA-LVSG-01
BA-DP-02	93.88 cal/cm²	610mm (24in)	9326mm (367in)	208VAC	Monday, December 15, 2025	1.1m (42in)	305mm (12in)	0	Switchboard	BA-115A	BA-DP-01_CB_BA-TRAN-03
BA-DSW-01	0.21 cal/cm²	457mm (18in)	152mm (6in)	600VAC	Monday, December 15, 2025	1.1m (42in)	305mm (12in)	0	Panelboard		BA-DP-01_CB_BA-DSW-01
BA-DSW-02	0.42 cal/cm²	457mm (18in)	235mm (9in)	480VAC	Monday, December 15, 2025	1.1m (42in)	305mm (12in)	0	Panelboard		DO-EMG-03_CB_BA-DSW-02
BA-DSW-04	0.14 cal/cm²	457mm (18in)	120mm (5in)	208VAC	Monday, December 15, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	BA-0002	BA-PP-11_CB_BA-DSW-04
BA-DSW-05	14.64 cal/cm²	457mm (18in)	2187mm (86in)	240VAC	Monday, December 15, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	BA-0002	BA-DSW-02_Fuse_BA-DSW-02
BA-DSW-HRU-1	0.24 cal/cm²	457mm (18in)	168mm (7in)	600VAC	Monday, December 15, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ROOF	BA-DP-01_CB_BA-DSW-HRU-1
BA-EMG-01	12.83 cal/cm²	457mm (18in)	2013mm (79in)	240VAC	Monday, December 15, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	BA-0002	DO-EMG-01_CB_BA-TRAN-04
BA-HTP-01	0.32 cal/cm²	457mm (18in)	200mm (8in)	600VAC	Monday, December 15, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	BA-103	BA-DP-01_CB_BA-HTP-01
BA-HTP-02	0.31 cal/cm²	457mm (18in)	194mm (8in)	600VAC	Monday, December 15, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	BA-224	BA-DP-01_CB_BA-HTP-02
BA-HTP-03	0.29 cal/cm²	457mm (18in)	188mm (7in)	600VAC	Monday, December 15, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	BA-324	BA-DP-01_CB_BA-HTP-03
BA-HTP-04	0.28 cal/cm²	457mm (18in)	183mm (7in)	600VAC	Monday, December 15, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	BA-424	BA-DP-01_CB_BA-HTP-04
BA-HVTR-01_HV	1.01 cal/cm²	914mm (36in)	820mm (32in)	12470VAC	Monday, December 15, 2025	1.5m (60in)	658mm (26in)	2	Cable Bus	PADMOUNT	CX-HVACB-06
BA-HVTR-01-LV	1.63 cal/cm²	457mm (18in)	553mm (22in)	600VAC	Monday, December 15, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	PADMOUNT	BA-HVTR-01_BAYONET
BA-LVSG-01-MAIN	1.43 cal/cm²	610mm (24in)	680mm (27in)	600VAC	Monday, December 15, 2025	1.1m (42in)	305mm (12in)	0	Switchgear	BA-115A	BA-HVTR-01_BAYONET
BA-PP-01	0.33 cal/cm²	457mm (18in)	203mm (8in)	600VAC	Monday, December 15, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	BA-0002	BA-DP-01_CB_BA-PP-01
BA-PP-02	21.47 cal/cm²	457mm (18in)	2779mm (109in)	208VAC	Monday, December 15, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	BA-103	BA-DP-02_CB_BA-PP-02
BA-PP-03	21.72 cal/cm²	457mm (18in)	2799mm (110in)	208VAC	Monday, December 15, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	BA-224	BA-DP-02_CB_BA-PP-03
BA-PP-04	21.92 cal/cm²	457mm (18in)	2815mm (111in)	208VAC	Monday, December 15, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	BA-324	BA-DP-02_CB_BA-PP-04
BA-PP-05	22.12 cal/cm²	457mm (18in)	2831mm (111in)	208VAC	Monday, December 15, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	BA-424	BA-DP-02_CB_BA-PP-05
BA-PP-06	50.15 cal/cm²	457mm (18in)	4725mm (186in)	208VAC	Monday, December 15, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	BA-1C02	BA-DP-02_CB_BA-PP-06
BA-PP-07	23.04 cal/cm²	457mm (18in)	2904mm (114in)	208VAC	Monday, December 15, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	BA-2C02	BA-DP-02_CB_BA-PP-07
BA-PP-08	23.24 cal/cm²	457mm (18in)	2919mm (115in)	208VAC	Monday, December 15, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	BA-3C02	BA-DP-02_CB_BA-PP-08
BA-PP-09	23.54 cal/cm²	457mm (18in)	2943mm (116in)	208VAC	Monday, December 15, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	BA-4C02	BA-DP-02_CB_BA-PP-09
BA-PP-11	2.48 cal/cm²	457mm (18in)	720mm (28in)	208VAC	Monday, December 15, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	BA-0002	BA-PP-01_CB_BA-TRAN-05
BA-TRAN-03-HV	0.3 cal/cm²	457mm (18in)	193mm (8in)	600VAC	Monday, December 15, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	BA-115A	BA-DP-01_CB_BA-TRAN-03
BA-TRAN-03-LV	59.75 cal/cm²	457mm (18in)	5272mm (208in)	208VAC	Monday, December 15, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	BA-115A	BA-DP-01_CB_BA-TRAN-03
BA-TRAN-04-HV	0.8 cal/cm²	457mm (18in)	356mm (14in)	600VAC	Monday, December 15, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	BA-0002	DO-EMG-01_CB_BA-TRAN-04
BA-TRAN-04-LV	6.58 cal/cm²	457mm (18in)	1326mm (52in)	240VAC	Monday, December 15, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	BA-0002	DO-EMG-01_CB_BA-TRAN-04
BA-TRAN-05-HV	0.2 cal/cm²	457mm (18in)	148mm (6in)	600VAC	Monday, December 15, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	BA-0002	BA-PP-01_CB_BA-TRAN-05
BA-TRAN-05-LV	1.65 cal/cm²	457mm (18in)	559mm (22in)	208VAC	Monday, December 15, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	BA-0002	BA-PP-01_CB_BA-TRAN-05
BA-TRAN-06-HV	0.09 cal/cm²	457mm (18in)	93mm (4in)	480VAC	Monday, December 15, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	BA-0002	DO-EMG-03_Fuse_BA-DSW-02
BA-TRAN-06-LV	7.51 cal/cm²	457mm (18in)	1439mm (57in)	240VAC	Monday, December 15, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	BA-0002	DO-EMG-03_Fuse_BA-DSW-02

One-Line Diagram - OLV1 | Edit Mode



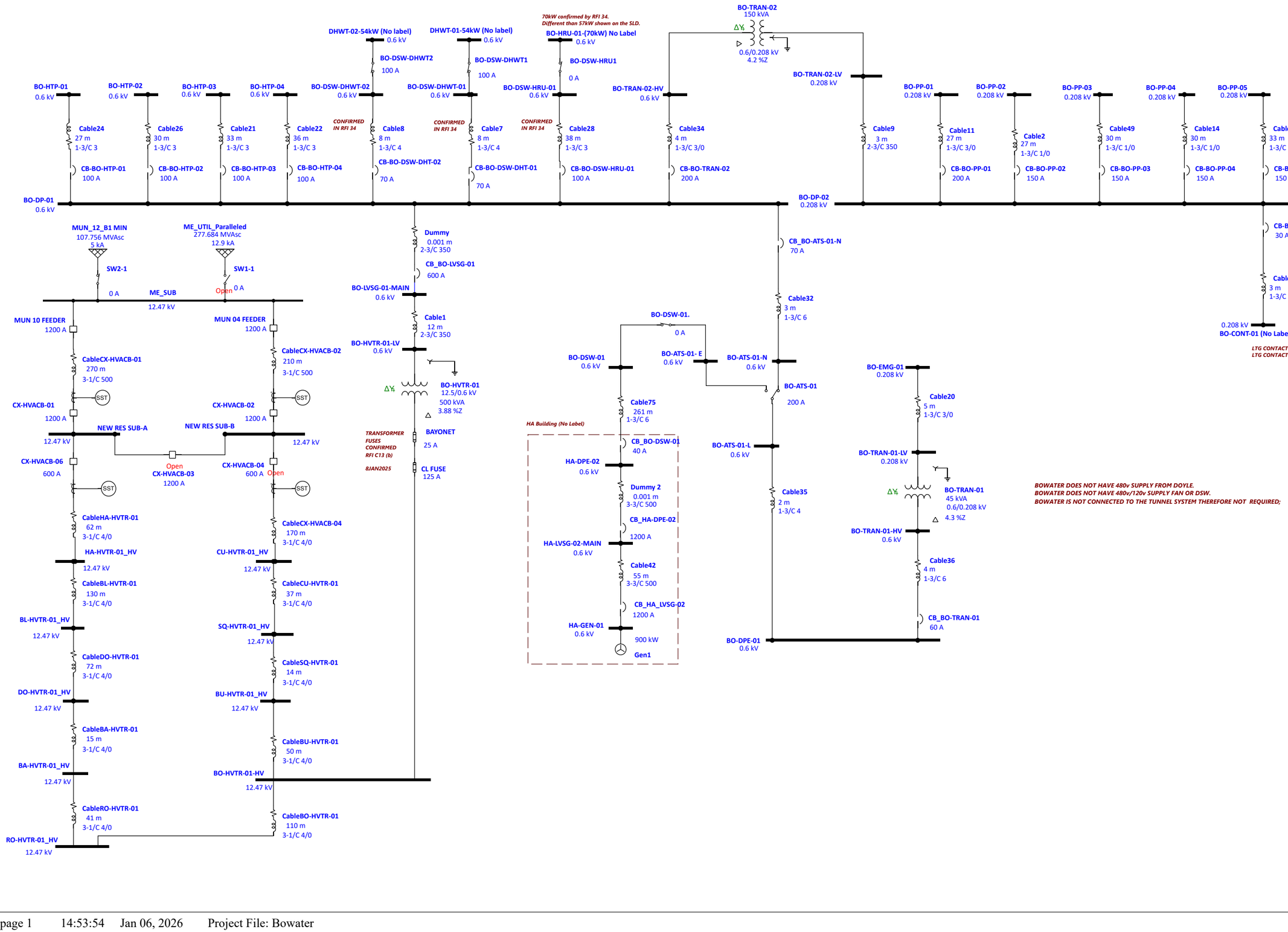
Arc Flash Labels for Panels

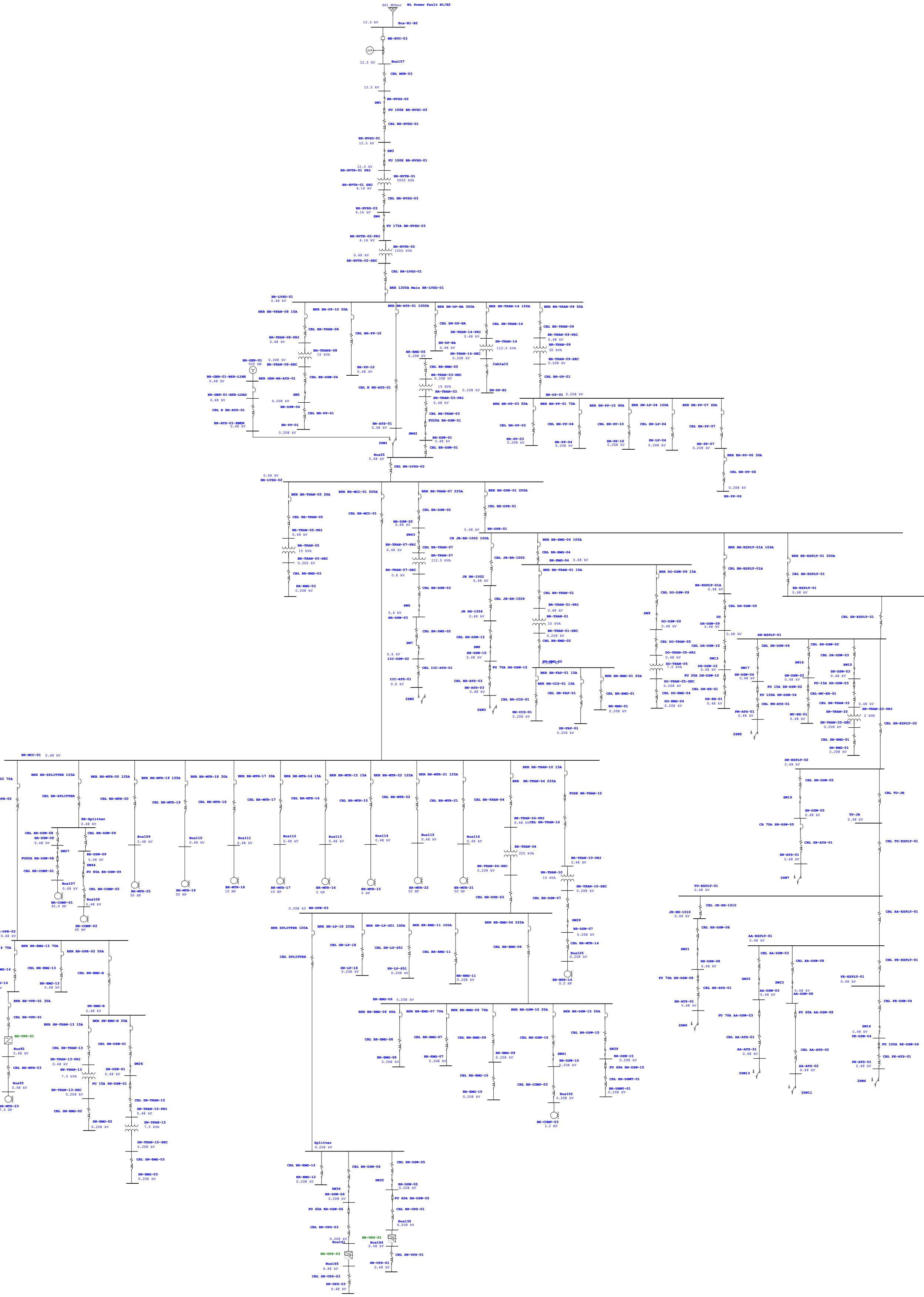
VDP_TAG	VDP_INCIDENT	VDP_WORKING	VDP_ARCFLASH	VDP_NOMINAL	VDP_PERFORMED	VDP_Limited	VDP_Restricted	VDP_Gloves	VDP_Equipment	VDP_Location	VDP_Fed From
BL-ATS-01-E	1.41 cal/cm²	610mm (24in)	671mm (26in)	600VAC	##########	1.1m (42in)	305mm (12in)	0	Switchboard	BL-101	BL-DSW-01_No Fuse
BL-ATS-01-N	0.17 cal/cm²	610mm (24in)	180mm (7in)	600VAC	##########	1.1m (42in)	305mm (12in)	0	Switchboard	BL-101	BL-DP-01_CB_BL-ATS-01-N
BL-DP-01	0.18 cal/cm²	610mm (24in)	184mm (7in)	600VAC	##########	1.1m (42in)	305mm (12in)	0	Switchboard	BL-101	BL-LVSG-01_BL-LVSG-01
BL-DP-02	77.86 cal/cm²	610mm (24in)	8296mm (327in)	208VAC	##########	1.1m (42in)	305mm (12in)	0	Switchboard	BL-101	BL-DP-01_CB_BL-TRAN-03
BL-DPE-01	1.42 cal/cm²	610mm (24in)	673mm (26in)	600VAC	##########	1.1m (42in)	305mm (12in)	0	Switchboard	BL-101	BL-ATS-01
BL-DSW-01	1.99 cal/cm²	457mm (18in)	625mm (25in)	600VAC	##########	1.1m (42in)	305mm (12in)	0	Panelboard	BL-101	HA-DPE-02_CB_BL-DSW-01
BL-DSW-04	0.23 cal/cm²	457mm (18in)	161mm (6in)	600VAC	##########	1.1m (42in)	305mm (12in)	0	Panelboard	BL-0001	BL-DP-01_CB_BL-DSW-04
BL-DSW-05	0.23 cal/cm²	457mm (18in)	161mm (6in)	600VAC	##########	1.1m (42in)	305mm (12in)	0	Panelboard	BL-0001	BL-DP-01_CB_BL-DSW-05
BL-DSW-06	0.4 cal/cm²	457mm (18in)	229mm (9in)	480VAC	##########	1.1m (42in)	305mm (12in)	0	Panelboard	BL-0001	DO-EMG-03_CB_BL-DSW-06
BL-DSW-07	0.2 cal/cm²	457mm (18in)	148mm (6in)	208VAC	##########	1.1m (42in)	305mm (12in)	0	Panelboard	BL-0001	BL-PP-15_CB_BL-DSW-07
BL-DSW-08	21.89 cal/cm²	457mm (18in)	2812mm (111in)	240VAC	##########	1.1m (42in)	305mm (12in)	0	Panelboard	BL-0001	BL-DSW-06_Fuse
BL-DSW-09	0.12 cal/cm²	457mm (18in)	107mm (4in)	480VAC	##########	1.1m (42in)	305mm (12in)	0	Panelboard	BL-0001	BL-DSW-06_Fuse
BL-DSW-10	0.19 cal/cm²	457mm (18in)	143mm (6in)	600VAC	##########	1.1m (42in)	305mm (12in)	0	Panelboard	BL-424	BL-DP-01_CB_BL-DSW-10
BL-DSW-11	0.23 cal/cm²	457mm (18in)	165mm (6in)	600VAC	##########	1.1m (42in)	305mm (12in)	0	Panelboard	ROOF	BL-DP-01_CB_BL-DSW-11
BL-EMG-01	7.02 cal/cm²	457mm (18in)	1381mm (54in)	240VAC	##########	1.1m (42in)	305mm (12in)	0	Panelboard	BL-101	BL-DPE-01_CB_BL-TRAN-04
BL-HVTR-01-HV	1.05 cal/cm²	914mm (36in)	840mm (33in)	12470VAC	##########	1.5m (60in)	658mm (26in)	2	Cable Bus	PADMOUNT	_CX-HVACB-06
BL-HVTR-01-LV	1.63 cal/cm²	457mm (18in)	553mm (22in)	600VAC	##########	1.1m (42in)	305mm (12in)	0	Cable Bus	PADMOUNT	BL-HVTR-01_BAYONET
BL-LVSG-01-MAIN	1.44 cal/cm²	610mm (24in)	683mm (27in)	600VAC	##########	1.1m (42in)	305mm (12in)	0	Switchgear	BL-101	BL-HVTR-01_BAYONET
BL-PP-01	9.11 cal/cm²	457mm (18in)	1625mm (64in)	208VAC	##########	1.1m (42in)	305mm (12in)	0	Panelboard	BL-101	BL-DP-02_CB_BL-PP-01
BL-PP-02	0.13 cal/cm²	457mm (18in)	113mm (4in)	208VAC	##########	1.1m (42in)	305mm (12in)	0	Panelboard	BL-101	BL-DP-02_CB_BL-PP-02
BL-PP-05	0.25 cal/cm²	457mm (18in)	173mm (7in)	600VAC	##########	1.1m (42in)	305mm (12in)	0	Panelboard	BL-101	BL-DP-01_CB_BL-PP-05
BL-PP-06	0.25 cal/cm²	457mm (18in)	172mm (7in)	600VAC	##########	1.1m (42in)	305mm (12in)	0	Panelboard	BL-223	BL-DP-01_CB_BL-PP-06
BL-PP-07	0.12 cal/cm²	457mm (18in)	111mm (4in)	208VAC	##########	1.1m (42in)	305mm (12in)	0	Panelboard	BL-223	BL-DP-02_CB_BL-PP-07
BL-PP-08	0.12 cal/cm²	457mm (18in)	111mm (4in)	208VAC	##########	1.1m (42in)	305mm (12in)	0	Panelboard	BL-223	BL-DP-02_CB_BL-PP-08
BL-PP-09	0.25 cal/cm²	457mm (18in)	172mm (7in)	600VAC	##########	1.1m (42in)	305mm (12in)	0	Panelboard	BL-323	BL-DP-01_CB_BL-PP-09
BL-PP-10	0.12 cal/cm²	457mm (18in)	107mm (4in)	208VAC	##########	1.1m (42in)	305mm (12in)	0	Panelboard	BL-323	BL-DP-02_CB_BL-PP-10
BL-PP-11	0.12 cal/cm²	457mm (18in)	107mm (4in)	208VAC	##########	1.1m (42in)	305mm (12in)	0	Panelboard	BL-323	BL-DP-02_CB_BL-PP-11
BL-PP-12	0.24 cal/cm²	457mm (18in)	167mm (7in)	600VAC	##########	1.1m (42in)	305mm (12in)	0	Panelboard	BL-423	BL-DP-01_CB_BL-PP-12
BL-PP-13	0.11 cal/cm²	457mm (18in)	105mm (4in)	208VAC	##########	1.1m (42in)	305mm (12in)	0	Panelboard	BL-423	BL-DP-02_CB_BL-PP-13
BL-PP-14	0.11 cal/cm²	457mm (18in)	105mm (4in)	208VAC	##########	1.1m (42in)	305mm (12in)	0	Panelboard	BL-423	BL-DP-02_CB_BL-PP-14
BL-PP-15	0.08 cal/cm²	457mm (18in)	87mm (3in)	208VAC	##########	1.1m (42in)	305mm (12in)	0	Panelboard	BL-0002	BL-DP-02_CB_BL-PP-15
BL-TRAN-03-HV	0.21 cal/cm²	457mm (18in)	152mm (6in)	600VAC	##########	1.1m (42in)	305mm (12in)	0	Cable Bus	BL-101	BL-DP-01_CB_BL-TRAN-03
BL-TRAN-03-LV	4.58 cal/cm²	457mm (18in)	1056mm (42in)	208VAC	##########	1.1m (42in)	305mm (12in)	0	Cable Bus	BL-101	BL-DP-01_CB_BL-TRAN-03
BL-TRAN-04-HV	0.49 cal/cm²	457mm (18in)	262mm (10in)	600VAC	##########	1.1m (42in)	305mm (12in)	0	Cable Bus	BL-101	BL-DPE-01_CB_BL-TRAN-04
BL-TRAN-04-LV	5.63 cal/cm²	457mm (18in)	1202mm (47in)	240VAC	##########	1.1m (42in)	305mm (12in)	0	Cable Bus	BL-101	BL-DPE-01_CB_BL-TRAN-04
BL-TRAN-05 -HV	0.09 cal/cm131	457mm (18in)	91mm (4in)	480VAC	##########	1.1m (42in)	305mm (12in)	0	Cable Bus	BL-0001	BL-DSW-06_Fuse
BL-TRAN-05-LV	14.25 cal/cm132	457mm (18in)	2150mm (85in)	240VAC	##########	1.1m (42in)	305mm (12in)	0	Cable Bus	BL-0001	BL-DSW-06_Fuse

Arc Flash Labels for Panels

VDP_TAG	VDP_INCIDENT	VDP_WORKING	VDP_ARCFLASH	VDP_NOMINAL	VDP_PERFORMED	VDP_Limited	VDP_Restricted	VDP_Gloves	VDP_Equipment	VDP_Location	VDP_Fed From
BO-ATS-01- E	1.67 cal/cm²	610mm (24in)	747mm (29in)	600VAC	Monday, January 5, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	BO-112	BO-DSW-01_No Fuse
BO-ATS-01-N	0.17 cal/cm²	610mm (24in)	181mm (7in)	600VAC	Monday, January 5, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	BO-112	BO-DP-01_CB_BO-ATS-01-N
BO-DP-01	0.18 cal/cm²	610mm (24in)	185mm (7in)	600VAC	Monday, January 5, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	BO-112	BO-LVSG-01_CB_BO-LVSG-01
BO-DP-02	89.33 cal/cm²	610mm (24in)	9040mm (356in)	208VAC	Monday, January 5, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	BO-112	BO-DP-01_CB-BO-TRAN-02
BO-DPE-01	1.67 cal/cm²	610mm (24in)	747mm (29in)	600VAC	Monday, January 5, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	BO-112	BO-ATS-01
BO-DSW-01	2.41 cal/cm²	457mm (18in)	705mm (28in)	600VAC	Monday, January 5, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	BO-112	HA-DPE-02_CB_BO-DSW-01
BO-DSW-DHWT-01	0.25 cal/cm²	457mm (18in)	172mm (7in)	600VAC	Monday, January 5, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	BO-110	BO-DP-01_CB_BO-DSW-DHWT-1
BO-DSW-DHWT-02	0.25 cal/cm²	457mm (18in)	172mm (7in)	600VAC	Monday, January 5, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	BO-110	BO-DP-01_CB_BO-DSW-DHWT-1
BO-DSW-HRU-01	0.17 cal/cm²	457mm (18in)	135mm (5in)	600VAC	Monday, January 5, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	ROOF	BO-DP-01_CB-BO-DSW-HRU-1
BO-EMG-01	20.33 cal/cm²	457mm (18in)	2685mm (106in)	208VAC	Monday, January 5, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	BO-112	BO-DPE-01_CB_BO-TRAN-01
BO-HTP-01	0.2 cal/cm²	457mm (18in)	149mm (6in)	600VAC	Monday, January 5, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	BO-119	BO-DP-01_CB-BO-HTP-01
BO-HTP-02	0.19 cal/cm²	457mm (18in)	145mm (6in)	600VAC	Monday, January 5, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	BO-218	BO-DP-01_CB-BO-HTP-02
BO-HTP-03	0.18 cal/cm²	457mm (18in)	141mm (6in)	600VAC	Monday, January 5, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	BO-322	BO-DP-01_CB-BO-HTP-03
BO-HTP-04	0.18 cal/cm²	457mm (18in)	138mm (5in)	600VAC	Monday, January 5, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	BO-422	BO-DP-01_CB-BO-HTP-04
BO-HVTR-01-HV	1.04 cal/cm²	914mm (36in)	834mm (33in)	12470VAC	Monday, January 5, 2026	1.5m (60in)	658mm (26in)	2	Cable Bus	PADMOUNT	_CX-HVACB-04
BO-HVTR-01-LV	1.63 cal/cm²	457mm (18in)	553mm (22in)	600VAC	Monday, January 5, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	PADMOUNT	BO-HVTR-01_BAYONET
BO-LVSG-01-MAIN	1.44 cal/cm²	610mm (24in)	684mm (27in)	600VAC	Monday, January 5, 2026	1.1m (42in)	305mm (12in)	0	Switchgear	BO-112	BO-HVTR-01_BAYONET
BO-PP-01	19.05 cal/cm²	457mm (18in)	2578mm (101in)	208VAC	Monday, January 5, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	BO-119	BO-DP-02_CB-BO-PP-01
BO-PP-02	0.1 cal/cm²	457mm (18in)	96mm (4in)	208VAC	Monday, January 5, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	BO-119	BO-DP-02_CB-BO-PP-02
BO-PP-03	0.1 cal/cm²	457mm (18in)	96mm (4in)	208VAC	Monday, January 5, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	BO-218	BO-DP-02_CB-BO-PP-03
BO-PP-04	0.1 cal/cm²	457mm (18in)	96mm (4in)	208VAC	Monday, January 5, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	BO-218	BO-DP-02_CB-BO-PP-04
BO-PP-05	0.1 cal/cm²	457mm (18in)	98mm (4in)	208VAC	Monday, January 5, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	BO-322	BO-DP-02_CB-BO-PP-05
BO-PP-06	0.1 cal/cm²	457mm (18in)	98mm (4in)	208VAC	Monday, January 5, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	BO-322	BO-DP-02_CB-BO-PP-06
BO-PP-07	0.11 cal/cm²	457mm (18in)	104mm (4in)	208VAC	Monday, January 5, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	BO-422	BO-DP-02_CB-BO-PP-07
BO-PP-08	0.11 cal/cm²	457mm (18in)	104mm (4in)	208VAC	Monday, January 5, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	BO-422	BO-DP-02_CB-BO-PP-08
BO-TRAN-01-HV	1.91 cal/cm²	457mm (18in)	608mm (24in)	600VAC	Monday, January 5, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	BO-112	BO-DPE-01_CB_BO-TRAN-01
BO-TRAN-01-LV	13.54 cal/cm²	457mm (18in)	2082mm (82in)	208VAC	Monday, January 5, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	BO-112	BO-DPE-01_CB_BO-TRAN-01
BO-TRAN-02-HV	0.21 cal/cm²	457mm (18in)	152mm (6in)	600VAC	Monday, January 5, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	BO-112	BO-DP-01_CB_BO-TRAN-02
BO-TRAN-02-LV	85.87 cal/cm²	457mm (18in)	6615mm (260in)	208VAC	Monday, January 5, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	BO-112	BO-DP-01_CB-BO-TRAN-02

One-Line Diagram - BO | Edit Mode




461 MVAsc
NL Power Fault B1/B2
12.5 kV
Bus-B1-B2
ME-HVC-03
OCR
12.5 kV
Bus157
CBL MUN-03
12.5 kV
SW1
BR-HVSG-02
FU 100E BR-HVSC-02
CBL BR-HVSG-01
BR-HVSG-01
12.5 kV
SW3
FU 100E BR-HVSG-01
12.5 kV
BR-HVTR-01 PRI
BR-HVTR-01
2000 kVA
BR-HVTR-01 SEC
4.16 kV
CBL BR-HVSG-03
BR-HVSG-03
4.16 kV
SW4
FU 175A BR-HVSG-03
BR-HVTR-02-PRI
4.16 kV
BR-HVTR-02
1000 kVA
0.48 kV
BR-HVTR-02-SEC
CBL BR-LVSG-01
BKR 1200A Main BR-LVSG-01
BR-LVSG-01
0.48 kV
BKR BR-TRAN-08 15A
BKR BR-PP-10 50A
BKR BR-ATS-01 1000A
BKR SN-DP-BA 300A
BKR SN-TRAN-14 150A
BKR BR-TRAN-09 50A
CBL BR-TRAN-08
CBL BR-PP-10
CBL SN-DP-BA
CBL SN-TRAN-14
CBL BR-TRAN-09
BR-TRAN-08-PRI
0.48 kv
BR-TRANS-08
15 kVA
SN-TRAN-14-PRI
0.48 kV
SN-TRAN-14
112.5 kVA
BR-TRAN-09-PRI
0.48 kV
BR-TRAN-09
30 kVA
BR-EMG-05
0.208 kV
SN-DP-BA
0.48 kV
SN-TRAN-14-SEC
0.208 kV
BR-TRAN-09-SEC
0.208 kV
BR-GEN-01
500 kW
0.208 kV
BR-TRAN-08-SEC
BR-PP-10
0.48 kV
CBL BR-EMG-05
BR-TRAN-03-SEC
0.208 kV
Cable12
CBL BR-DP-01
BR-GEN-01-BKR-LINE
0.48 kV
BKR GEN-BR-ATS-01
CBL BR-DSW-04
15 kVA
BR-TRAN-03
0.208 kV
SN-DP-B1
CBL N BR-ATS-01
BR-GEN-01-BKR-LOAD
0.48 kV
SW5
0.208 kV
BR-DSW-04
BR-TRAN-03-PRI
0.48 kV
BR-DP-01 0.208 kV
CBL E BR-ATS-01
CBL BR-PP-01
CBL BR-TRAN-03
BR-ATS-01-EMER
0.48 kV
BR-PP-01
0.208 kV
BR-ATS-01
0.48 kV
FU20A BR-DSW-01
SW42
BKR BR-PP-03 50A
BKR BR-PP-01 70A
BKR SN-PP-10 90A
BKR SN-LP-04 100A
BKR BR-PP-07 60A
BR-DSW-01
0.48 kV
2SW1
CBL BR-PP-03
CBL BR-PP-04
CBL SN-PP-10
CBL SN-LP-04
CBL BR-PP-07
CBL BR-DSW-01
BR-PP-03
0.208 kV
BR-PP-04
0.208 kV
SN-PP-10
0.208 kV
SN-LP-04
0.208 kV
BR-PP-07
0.208 kV
Bus25
0.48 kV
BKR BR-PP-06 30A
CBL BR-LVSG-02
CBL BR-PP-06
0.48 kV
BR-LVSG-02
0.208 kV
BR-PP-06
BKR BR-TRAN-05 20A
BKR BR-MCC-01 500A
BKR BR-TRAN-07 225A
BKR BR-DPE-01 200A
CBL BR-TRAN-05
CBL BR-MCC-01
CBL BR-DSW-02
CBL BR-DPE-01
BR-DSW-02
0.48 kV
BR-TRAN-05-PRI
0.48 kV
SW43
0.48 kV
BR-DPE-01
BR-TRAN-05
15 kVA
BR-TRAN-07-PRI
0.48 kV
CB JB-BR-1002 100A
BKR BR-EMG-04 100A
CBL BR-TRAN-07
CBL JB-BR-1002
CBL BR-EMG-04
BR-TRAN-07
112.5 kVA
BR-EMG-04 0.48 kV
BR-TRAN-05-SEC
0.205 kV
BR-TRAN-07-SEC
0.6 kV
JB BR-1002
0.48 kV
BKR BR-TRAN-01 15A
BKR DO-DSW-09 15A
BKR BR-ESPLT-01A 100A
BKR BR-ESPLT-01 200A
CBL BR-EMG-03
CBL BR-DSW-03
CBL JB-HH-1504
CBL BR-TRAN-01
CBL DO-DSW-09
CBL BR-ESPLT-01A
CBL BR-ESPLT-01
BR-EMG-03
0.208 kV
SW6
0.6 kV
BR-DSW-03
JB HH-1504
0.48 kV
BR-TRAN-01-PRI
0.48 kV
BR-TRAN-01
10 kVA
SW9
DO-DSW-09
0.48 kV
BR-ESPLT-01A
0.48 kV
DS
DH-DSW-09
0.48 kV
BR-ESPLT-01
0.48 kV
CBL BR-DWS-02
CBL HH-DSW-15
BR-TRAN-01-SEC
0.208 kV
CBL DO-TRAN-05
CBL DH-DSW-10
CBL DH-DSW-09
CBL SN-ESPLT-01
SW7
0.6 kV
IIC-DSW-02
SW8
HH-DSW-15
0.48 kV
CBL BR-EMG-02
DO-TRAN-05-PRI
0.48 kV
SW13
DH-DSW-10
0.48 kV
SN-ESPLT-01
0.48 kV
CBL IIC-ATS-01
FU 70A HH-DSW-15
BR-EMG-02
0.208 kV
DO-TRAN-05
7.5 kVA
CBL SN-DSW-04
CBL SN-DSW-02
IIC-ATS-01
0.6 kV
CBL HH-ATS-03
BKR SN-FAP-01 15A
BKR BR-EMG-01 20A
FU 20A DH-DSW-10
SW17
SW16
SW15
SN-DSW-04
0.48 kV
SN-DSW-02
0.48 kV
SN-DSW-03
0.48 kV
HH-ATS-03
0.48 kV
BKR BR-CCS-01 15A
CBL SN-FAP-01
CBL BR-EMG-01
DO-TRAN-05-SEC
0.208 kV
CBL DR-DSW-03
FU 15A SN-DSW-02
FU 15A DR-DSW-03
FU 100A SN-DSW-04
CBL DH-EH-01
CBL MU-EH-01
CBL FM-ATS-01
CBL SN-TRAN-22
0.48 kV
2SW2
CBL BR-CCS-01
DO-EMG-04
DH-EH-01
0.48 kV
FM-ATS-01
0.48 kV
MU-EH-01
0.48 kV
SN-TRAN-22
SN-TRAN-22-PRI
2 kVA
BR-CCS-01
0.208 kV
2SW3
SN-FAP-01
0.208 kV
DO-EMG-04
0.208 kV
2SW5
SN-TRAN-22-SEC
0.208 kV
CBL SN-ESPLT-02
CBL SN-EMG-01
SN-EMG-01
0.208 kV
BR-MCC-01 0.48 kV
BKR BR-DPE-02 70A
BKR BR-SPLITTER 125A
BKR BR-MTR-20 125A
BKR BR-MTR-19 125A
BKR BR-MTR-18 30A
BKR BR-MTR-17 30A
BKR BR-MTR-16 15A
BKR BR-MTR-15 15A
BKR BR-MTR-22 125A
BKR BR-MTR-21 125A
BKR BR-TRAN-10 15A
BKR BR-TRAN-04 225A
SN-ESPLT-02
0.48 kV
CBL BR-DPE-02
CBL BR-SPLITTER
CBL BR-MTR-20
CBL BR-MTR-19
CBL BR-MTR-18
CBL BR-MTR-17
CBL BR-MTR-16
CBL BR-MTR-15
CBL BR-MTR-22
CBL BR-MTR-21
CBL BR-TRAN-04
FUSE BR-TRAN-10
CBL SN-DSW-05
CBL TU-JB
SW19
SN-DSW-05
0.48 kV
TU-JB
0.48 kV
BR-Splitter
0.48 kV
BR-TRAN-04-PRI
0.48 kV
CBL BR-TRAN-10
CB 70A SN-DSW-05
CBL BR-DSW-08
CBL BR-DSW-09
Bus109
0.48 kV
Bus110
0.48 kV
Bus111
0.48 kV
Bus112
0.48 kV
Bus113
0.48 kV
Bus114
0.48 kV
Bus115
0.48 kV
Bus116
0.48 kV
CBL SN-ATS-01
CBL TU-ESPLT-01
BR-DSW-08
0.48 kV
SW27
BR-DSW-09
0.48 kV
SW44
BR-TRAN-04
225 kVA
SN-ATS-01
0.48 kV
BR-TRAN-10-PRI
0.48 kV
FU60A BR-DSW-08
FU 80A BR-DSW-09
BR-TRAN-04-SEC
0.208 kV
BR-TRAN-10
15 kVA
2SW7
CBL BR-COMP-01
CBL BR-COMP-02
BR-TRAN-10-SEC
0.208 kV
TU-ESPLT-01
0.48 kV
Bus107
0.48 kV
Bus108
0.48 kV
BR-MTR-20
50 HP
BR-MTR-19
50 HP
BR-MTR-18
10 HP
BR-MTR-17
10 HP
BR-MTR-16
5 HP
BR-MTR-15
5 HP
BR-MTR-22
50 HP
BR-MTR-21
50 HP
CBL BR-DPE-03
CBL BR-DSW-07
CBL JB-HH-1010
CBL AA-ESPLT-01
BR-COMP-01
45.4 HP
BR-COMP-02
40 HP
0.208 kV
BR-DPE-03
JB-HH-1010
0.48 kV
SW29
BR-DSW-07
0.208 kV
CBL HH-DSW-08
BR-DPE-02
0.48 kV
BKR SPLITTER 100A
BKR SN-LP-18 225A
BKR SN-LP-S51 100A
BKR BR-EMG-11 100A
BKR BR-EMG-06 225A
AA-ESPLT-01
0.48 kV
CBL AA-DSW-03
CBL AA-DSW-08
CBL PE-ESPLT-01
SW21
CBL SPLITTER
CBL SN-LP-18
CBL SN-LP-S51
CBL BR-EMG-11
CBL BR-EMG-06
CBL BR-MTR-14
Bus125
0.208 kV
HH-DSW-08
0.48 kV
SW25
SW23
AA-DSW-03
0.48 kV
AA-DSW-08
0.48 kV
PE-ESPLT-01
0.48 kV
BKR BR-EMG-14 70A
BKR BR-EMG-13 70A
BKR BR-DPE-02 50A
SN-LP-18
0.208 kV
SN-LP-S51
0.208 kV
BR-EMG-11
0.208 kV
BR-MTR-14
0.5 HP
FU 70A HH-DSW-08
CBL HH-ATS-01
FU 60A AA-DSW-08
CBL PE-DSW-04
CBL BR-EMG-14
CBL BR-EMG-13
CBL SN-EMG-B
HH-ATS-01
0.48 kV
FU 70A AA-DSW-03
SW14
0.48 kV
PE-DSW-04
BR-EMG-14
0.48 kV
BR-EMG-13
0.48 kV
BR-EMG-06 0.208 kV
2SW9
CBL AA-ATS-01
CBL AA-ATS-02
FU 100A PE-DSW-04
BKR BR-VFD-01 30A
SN-EMG-B
0.48 kV
AA-ATS-01
0.48 kV
CBL PE-ATS-01
BKR BR-EMG-06 40A
BKR BR-EMG-07 70A
BKR BR-EMG-09 70A
BKR BR-DSW-10 20A
BKR BR-DSW-15 50A
PE-ATS-01
0.48 kV
CBL BR-VFD-01
BKR SN-TRAN-13 15A
BKR SN-EMG-B 20A
CBL BR-DSW-15
2SW13
2SW11
2SW4
CBL BR-EMG-08
CBL BR-EMG-07
CBL BR-EMG-09
CBL BR-DSW-10
SW39
BR-EMG-08
0.208 kV
BR-EMG-07
0.208 kV
BR-EMG-09
0.208 kV
SW41
BR-DSW-15
0.208 kV
BR-VFD-01
CBL SN-TRAN-13
CBL SN-DSW-01
BR-DSW-10
0.208 kV
FU 60A BR-DSW-15
Bus92
0.48 kV
SN-TRAN-13-PRI
0.48 kV
SW26
CBL BR-MTR-23
SN-TRAN-13
7.5 kVA
SN-DSW-01
0.48 kV
CBL BR-EMG-10
CBL BR-COMP-03
CBL BR-DHWT-01
Bus93
0.48 kV
FU 15A SN-DSW-01
BR-EMG-10
0.208 kV
Bus152
0.208 kV
BR-DHWT-01
0.208 kV
BR-MTR-23
7.5 HP
SN-TRAN-13-SEC
0.208 kV
CBL SN-TRAN-15
BR-COMP-03
3.2 HP
CBL SN-EMG-02
SN-TRAN-15-PRI
0.48 kV
SN-EMG-02
0.208 kV
SN-TRAN-15
7.5 kVA
SN-TRAN-15-SEC
0.208 kV
CBL SN-EMG-03
SN-EMG-03
0.208 kV
Splitter
0.208 kV
CBL BR-EMG-12
CBL BR-DSW-06
CBL BR-DSW-05
BR-EMG-12
0.208 kV
SW36
SW32
BR-DSW-06
0.208 kV
BR-DSW-05
0.208 kV
FU 60A BR-DSW-06
FU 60A BR-DSW-05
CBL BR-UPS-01
CBL BR-UPS-03
Bus135
0.208 kV
0.208 kV
Bus141
BR-UPS-01
Bus164
0.48 kV
BR-UPS-03
CBL SN-UPS-01
Bus165
0.48 kV
SN-UPS-01
0.48 kV
CBL SN-UPS-03
SN-UPS-03
0.48 kV

Incident Energy Summary

Bus			Total Fault Current (kA)		Arc-Flash Analysis Results			
ID	Nom. kV	Type	Bolted	Arcing	FCT (cycles)	Incident E (cal/cm²)	AFB (ft)	Energy Level
AA-ATS-01	0.480	Other	2.486	1.730	2.678	0.239	0.67	Level 0
AA-ATS-02	0.480	Other	1.580	1.155	0.829	0.048	0.30	Level 0
AA-DSW-03	0.480	Other	2.531	2.067	3.000	0.325	0.78	Level 0
AA-DSW-08	0.480	Other	2.531	2.067	3.000	0.325	0.78	Level 0
AA-ESPLT-01	0.480	Other	2.561	2.089	3.000	0.329	0.78	Level 0
BR-ATS-01	0.480	Other	10.867	7.570	3.060	1.348	1.59	Level 1
BR-ATS-01-EMER	0.480	Other	9.375	5.641	780.427	250.259	21.66	>Max.
# BR-CCS-01	0.208	Other	0.284	0.284	56.806	0.137	0.51	Level 0
BR-DHWT-01	0.208	Other	1.195	0.971	1.002	0.048	0.30	Level 0
BR-DP-01	0.208	Other	2.232	1.309	115.254	7.618	3.78	Level 2
BR-DPE-01	0.480	Other	5.910	4.400	3.000	0.735	1.17	Level 0
BR-DPE-02	0.480	Other	4.066	2.681	2845.506	408.230	27.66	>Max.
BR-DPE-03	0.208	Other	7.106	3.079	3332.661	555.483	32.27	>Max.
BR-DSW-01	0.480	Other	9.355	5.630	783.076	250.589	21.67	>Max.
BR-DSW-02	0.480	Other	8.325	5.970	1.871	0.638	1.09	Level 0
BR-DSW-03	0.600	Other	1.579	1.223	56.646	3.478	2.55	Level 1
BR-DSW-04	0.208	Other	1.373	0.914	60.352	2.707	2.25	Level 1
BR-DSW-05	0.208	Other	3.187	1.703	1.629	0.143	0.52	Level 0
BR-DSW-06	0.208	Other	3.187	1.703	1.629	0.143	0.52	Level 0
BR-DSW-08	0.480	Other	7.604	5.508	0.960	0.300	0.75	Level 0
BR-DSW-09	0.480	Other	7.604	5.507	0.960	0.300	0.75	Level 0
BR-DSW-10	0.208	Other	0.867	0.766	1.002	0.037	0.26	Level 0
BR-DSW-15	0.208	Other	1.292	1.028	1.002	0.051	0.31	Level 0
# BR-EMG-01	0.208	Other	0.453	0.453	0.503	0.002	0.06	Level 0
# BR-EMG-02	0.208	Other	0.462	0.462	3874.228	15.188	5.35	Level 3
BR-EMG-03	0.208	Other	0.731	0.574	98.906	2.682	2.24	Level 1
BR-EMG-04	0.480	Other	4.605	3.523	0.638	0.123	0.48	Level 0
# BR-EMG-05	0.208	Other	0.679	0.679	4.321	0.025	0.22	Level 0
BR-EMG-06	0.208	Other	4.752	2.691	1.135	0.164	0.55	Level 0
BR-EMG-07	0.208	Other	4.285	2.493	1.002	0.133	0.50	Level 0
BR-EMG-08	0.208	Other	3.494	2.145	1.002	0.113	0.46	Level 0
BR-EMG-09	0.208	Other	3.326	2.068	1.002	0.109	0.45	Level 0
BR-EMG-10	0.208	Other	3.150	1.986	1.002	0.104	0.44	Level 0
BR-EMG-11	0.208	Other	1.968	1.193	124.342	7.434	3.73	Level 2

Bus			Total Fault Current (kA)		Arc-Flash Analysis Results			
ID	Nom. kV	Type	Bolted	Arcing	FCT (cycles)	Incident E (cal/cm²)	AFB (ft)	Energy Level
BR-EMG-12	0.208	Other	3.242	1.725	1.583	0.141	0.51	Level 0
BR-EMG-13	0.480	Other	3.481	2.746	0.673	0.099	0.43	Level 0
BR-EMG-14	0.480	Other	3.252	2.585	0.691	0.095	0.42	Level 0
BR-ESPLT-01	0.480	Other	5.710	4.267	0.788	0.187	0.59	Level 0
BR-ESPLT-01A	0.480	Other	5.710	4.267	0.585	0.139	0.51	Level 0
BR-GEN-01-BKR-LOAD	0.480	Other	9.492	5.704	753.435	244.517	21.41	>Max.
BR-HVSG-01	12.500	Other	20.370	19.533	1.560	1.277	1.55	Level 1
BR-HVSG-02	12.500	Other	20.408	19.568	5.960	4.888	3.03	Level 2
BR-HVSG-03	4.160	Other	4.600	4.523	9.806	1.651	1.76	Level 1
BR-HVTR-01 PRI	12.500	Other	20.370	19.533	1.560	1.277	1.55	Level 1
BR-HVTR-01 SEC	4.160	Other	4.662	4.584	9.578	1.636	1.75	Level 1
BR-HVTR-02-PRI	4.160	Other	4.600	4.523	2.495	0.420	0.89	Level 0
BR-HVTR-02-SEC	0.480	Other	12.706	7.395	28.130	12.088	4.76	Level 3
BR-LVSG-01	0.480	Other	12.574	8.620	3.060	1.552	1.71	Level 1
BR-LVSG-02	0.480	Other	9.325	5.614	792.315	252.766	21.77	>Max.
BR-MCC-01	0.480	Other	9.138	6.487	3.000	1.119	1.45	Level 0
BR-PP-01	0.208	Other	1.306	0.881	64.421	2.776	2.28	Level 1
BR-PP-03	0.208	Other	1.824	1.327	0.498	0.033	0.25	Level 0
BR-PP-04	0.208	Other	1.825	1.128	73.194	4.120	2.78	Level 2
BR-PP-06	0.208	Other	1.447	1.118	0.498	0.028	0.23	Level 0
BR-PP-07	0.208	Other	1.905	1.370	0.498	0.035	0.25	Level 0
BR-PP-10	0.480	Other	10.859	7.565	0.847	0.373	0.84	Level 0
BR-Splitter	0.480	Other	7.664	5.546	0.960	0.302	0.75	Level 0
BR-TRAN-01-PRI	0.480	Other	3.999	3.107	0.670	0.113	0.46	Level 0
# BR-TRAN-01-SEC	0.208	Other	0.468	0.468	3629.377	14.437	5.21	Level 3
BR-TRAN-03-PRI	0.480	Other	8.847	6.303	0.600	0.217	0.64	Level 0
BR-TRAN-03-SEC	0.208	Other	0.793	0.610	6.429	0.186	0.59	Level 0
BR-TRAN-04-PRI	0.480	Other	7.182	5.234	0.972	0.287	0.73	Level 0
BR-TRAN-04-SEC	0.208	Other	7.237	3.121	3274.851	553.866	32.22	>Max.
BR-TRAN-05-PRI	0.480	Other	3.364	2.664	0.960	0.137	0.51	Level 0
# BR-TRAN-05-SEC	0.205	Other	0.738	0.738	69.039	0.427	0.90	Level 0
BR-TRAN-07-PRI	0.480	Other	7.769	4.772	2.367	0.633	1.09	Level 0
BR-TRAN-07-SEC	0.600	Other	1.592	1.232	55.796	3.454	2.54	Level 1
BR-TRAN-08-PRI	0.480	Other	1.577	1.357	1.258	0.086	0.40	Level 0
BR-TRAN-08-SEC	0.208	Other	1.396	0.926	59.061	2.685	2.24	Level 1
BR-TRAN-09-PRI	0.480	Other	7.333	5.332	0.893	0.270	0.71	Level 0

Bus			Total Fault Current (kA)		Arc-Flash Analysis Results			
ID	Nom. kV	Type	Bolted	Arcing	FCT (cycles)	Incident E (cal/cm²)	AFB (ft)	Energy Level
BR-TRAN-09-SEC	0.208	Other	2.284	1.331	110.663	7.452	3.74	Level 2
BR-TRAN-10-PRI	0.480	Other	2.566	2.092	0.600	0.066	0.35	Level 0
BR-TRAN-10-SEC	0.208	Other	1.095	0.910	0.600	0.027	0.22	Level 0
DH-DSW-09	0.480	Other	2.580	2.103	0.767	0.085	0.40	Level 0
DH-DSW-10	0.480	Other	2.480	2.030	0.777	0.083	0.39	Level 0
DH-EH-01	0.480	Other	1.316	1.155	0.600	0.035	0.25	Level 0
DO-DSW-09	0.480	Other	0.805	0.634	191.053	5.764	3.29	Level 2
# DO-EMG-04	0.208	Other	0.619	0.619	1227.339	6.457	3.49	Level 2
DO-TRAN-05-PRI	0.480	Other	0.801	0.631	192.571	5.784	3.29	Level 2
# DO-TRAN-05-SEC	0.208	Other	0.633	0.633	1158.611	6.232	3.42	Level 2
FM-ATS-01	0.480	Other	2.171	1.804	3.000	0.280	0.72	Level 0
HH-ATS-01	0.480	Other	2.473	1.722	0.500	0.044	0.29	Level 0
HH-ATS-03	0.480	Other	0.971	0.749	59.402	2.146	2.01	Level 1
HH-DSW-08	0.480	Other	2.502	2.046	3.000	0.321	0.78	Level 0
HH-DSW-15	0.480	Other	0.976	0.752	138.768	5.040	3.07	Level 2
IIC-ATS-01	0.600	Other	1.205	0.943	95.119	4.414	2.88	Level 2
IIC-DSW-02	0.600	Other	1.208	0.946	94.587	4.402	2.87	Level 2
JB BR-1002	0.480	Other	5.198	3.924	0.610	0.132	0.50	Level 0
JB HH-1504	0.480	Other	1.133	0.859	108.900	4.565	2.92	Level 2
JB-HH-1010	0.480	Other	2.532	2.068	3.000	0.325	0.78	Level 0
MU-EH-01	0.480	Other	0.736	0.585	3411.330	94.374	13.30	>Max.
PE-ATS-01	0.480	Other	2.035	1.702	3.000	0.263	0.70	Level 0
PE-DSW-04	0.480	Other	2.055	1.717	3.000	0.266	0.71	Level 0
PE-ESPLT-01	0.480	Other	2.075	1.732	3.000	0.268	0.71	Level 0
SN-ATS-01	0.480	Other	3.485	2.337	3.000	0.371	0.83	Level 0
SN-DP-B1	0.208	Other	4.674	2.659	18.000	2.560	2.19	Level 1
SN-DP-BA	0.480	Other	9.539	6.740	3.000	1.166	1.48	Level 0
# SN-DSW-01	0.480	Other	0.556	0.556	14.507	0.158	0.55	Level 0
SN-DSW-02	0.480	Other	3.640	2.429	2.386	0.308	0.76	Level 0
SN-DSW-03	0.480	Other	3.215	2.175	3.000	0.343	0.80	Level 0
SN-DSW-04	0.480	Other	4.350	2.847	1.368	0.209	0.63	Level 0
SN-DSW-05	0.480	Other	3.514	2.354	3.000	0.374	0.84	Level 0
# SN-EMG-01	0.208	Other	0.231	0.231	236.487	0.464	0.93	Level 0
# SN-EMG-02	0.208	Other	0.515	0.515	63.025	0.276	0.72	Level 0
# SN-EMG-03	0.208	Other	0.323	0.323	297.599	0.816	1.24	Level 0
SN-EMG-B	0.480	Other	0.942	0.729	111.099	3.899	2.70	Level 1

Bus			Total Fault Current (kA)		Arc-Flash Analysis Results			
ID	Nom. kV	Type	Bolted	Arcing	FCT (cycles)	Incident E (cal/cm²)	AFB (ft)	Energy Level
SN-ESPLT-01	0.480	Other	4.438	2.898	1.319	0.206	0.62	Level 0
SN-ESPLT-02	0.480	Other	3.542	2.371	3.000	0.377	0.84	Level 0
# SN-FAP-01	0.208	Other	0.305	0.305	50.840	0.132	0.50	Level 0
SN-LP-04	0.208	Other	1.920	1.171	121.562	7.127	3.65	Level 2
SN-LP-18	0.208	Other	3.648	1.882	292.939	28.669	7.33	Level 4
SN-LP-S51	0.208	Other	2.241	1.313	97.663	6.478	3.48	Level 2
SN-PP-10	0.208	Other	1.061	0.756	204.335	7.458	3.74	Level 2
SN-TRAN-13-PRI	0.480	Other	0.930	0.720	6.964	0.241	0.67	Level 0
# SN-TRAN-13-SEC	0.208	Other	0.518	0.518	62.338	0.274	0.72	Level 0
SN-TRAN-14-PRI	0.480	Other	8.929	6.355	1.865	0.680	1.13	Level 0
SN-TRAN-14-SEC	0.208	Other	4.879	2.744	18.000	2.649	2.23	Level 1
# SN-TRAN-15-PRI	0.480	Other	0.551	0.551	14.762	0.160	0.55	Level 0
# SN-TRAN-15-SEC	0.208	Other	0.325	0.325	293.883	0.810	1.23	Level 0
SN-TRAN-22-PRI	0.480	Other	3.025	2.423	0.250	0.032	0.25	Level 0
# SN-TRAN-22-SEC	0.208	Other	0.233	0.233	215.557	0.427	0.90	Level 0
Splitter	0.208	Other	3.311	1.751	1.532	0.139	0.51	Level 0
TU-ESPLT-01	0.480	Other	2.882	2.321	3.000	0.368	0.83	Level 0
TU-JB	0.480	Other	2.909	2.340	3.000	0.372	0.83	Level 0

The theoretically derived Lee method was used to determine the incident energy and arc flash boundary for this location since the bolted fault current or nominal voltage are outside the empirical method range. ((Ibf" < 0.7 kA or Ibf" > 106 kA) and (0.208 ≤ Nominal kV ≤ 15 kV))

Incident Energy Summary

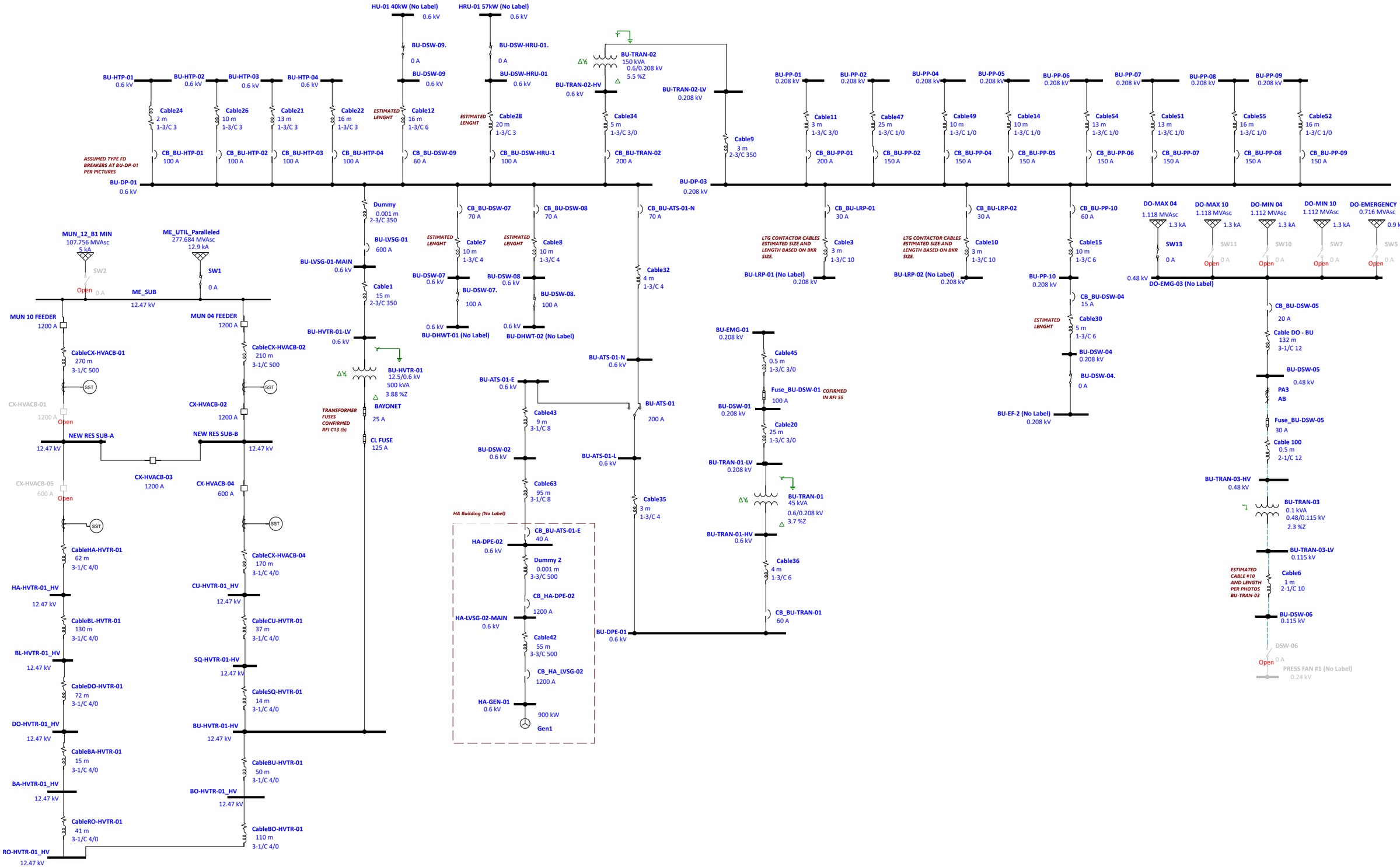
Bus			Total Fault Current (kA)		Arc-Flash Analysis Results			
ID	Nom. kV	Type	Bolted	Arcing	FCT (cycles)	Incident E (cal/cm²)	AFB (ft)	Energy Level
AA-ATS-01	0.480	Other	2.635	1.822	2.026	0.191	0.60	Level 0
AA-ATS-02	0.480	Other	1.621	1.181	0.772	0.046	0.29	Level 0
AA-DSW-03	0.480	Other	2.688	2.181	3.000	0.344	0.80	Level 0
AA-DSW-08	0.480	Other	2.688	2.181	3.000	0.344	0.80	Level 0
AA-ESPLT-01	0.480	Other	2.723	2.207	3.000	0.349	0.81	Level 0
BR-ATS-01	0.480	Other	13.334	9.082	3.060	1.642	1.75	Level 1
BR-ATS-01-EMER	0.480	Other	6.933	4.312	736.225	176.567	18.19	>Max.
# BR-CCS-01	0.208	Other	0.285	0.285	56.677	0.137	0.51	Level 0
BR-DHWT-01	0.208	Other	1.198	0.973	1.002	0.048	0.30	Level 0
BR-DP-01	0.208	Other	2.256	1.319	113.094	7.540	3.76	Level 2
BR-DPE-01	0.480	Other	6.877	5.036	3.000	0.851	1.26	Level 0
BR-DPE-02	0.480	Other	4.300	3.314	3.000	0.541	1.01	Level 0
BR-DPE-03	0.208	Other	7.806	3.883	2574.833	551.405	32.15	>Max.
BR-DSW-01	0.480	Other	13.289	9.055	3.060	1.637	1.75	Level 1
BR-DSW-02	0.480	Other	11.040	7.677	1.556	0.696	1.14	Level 0
BR-DSW-03	0.600	Other	1.678	1.295	50.456	3.298	2.49	Level 1
BR-DSW-04	0.208	Other	1.380	0.918	59.973	2.700	2.25	Level 1
BR-DSW-05	0.208	Other	3.253	1.729	1.574	0.141	0.51	Level 0
BR-DSW-06	0.208	Other	3.253	1.729	1.574	0.141	0.51	Level 0
BR-DSW-08	0.480	Other	9.407	6.656	0.960	0.368	0.83	Level 0
BR-DSW-09	0.480	Other	9.406	6.656	0.960	0.368	0.83	Level 0
BR-DSW-10	0.208	Other	0.867	0.766	1.002	0.037	0.26	Level 0
BR-DSW-15	0.208	Other	1.296	1.030	1.002	0.051	0.31	Level 0
# BR-EMG-01	0.208	Other	0.455	0.455	0.502	0.002	0.06	Level 0
# BR-EMG-02	0.208	Other	0.464	0.464	3800.951	14.964	5.31	Level 3
BR-EMG-03	0.208	Other	0.736	0.577	98.135	2.675	2.24	Level 1
BR-EMG-04	0.480	Other	5.051	3.825	0.617	0.130	0.49	Level 0
# BR-EMG-05	0.208	Other	0.683	0.683	4.253	0.025	0.22	Level 0
BR-EMG-06	0.208	Other	5.013	2.800	1.131	0.170	0.56	Level 0
BR-EMG-07	0.208	Other	4.475	2.575	1.002	0.138	0.51	Level 0
BR-EMG-08	0.208	Other	3.594	2.190	1.002	0.116	0.47	Level 0
BR-EMG-09	0.208	Other	3.416	2.109	1.002	0.111	0.46	Level 0
BR-EMG-10	0.208	Other	3.226	2.022	1.002	0.106	0.45	Level 0
BR-EMG-11	0.208	Other	1.986	1.201	122.327	7.366	3.72	Level 2

Bus			Total Fault Current (kA)		Arc-Flash Analysis Results			
ID	Nom. kV	Type	Bolted	Arcing	FCT (cycles)	Incident E (cal/cm²)	AFB (ft)	Energy Level
BR-EMG-12	0.208	Other	3.312	1.752	1.531	0.139	0.51	Level 0
BR-EMG-13	0.480	Other	3.628	2.849	0.665	0.102	0.44	Level 0
BR-EMG-14	0.480	Other	3.401	2.690	0.679	0.098	0.43	Level 0
BR-ESPLT-01	0.480	Other	6.591	4.849	0.708	0.193	0.60	Level 0
BR-ESPLT-01A	0.480	Other	6.591	4.849	0.548	0.149	0.53	Level 0
BR-GEN-01-BKR-LOAD	0.480	Other	7.082	4.394	711.974	174.283	18.07	>Max.
BR-HVSG-01	12.500	Other	20.447	19.605	1.560	1.282	1.55	Level 1
BR-HVSG-02	12.500	Other	20.485	19.641	5.960	4.908	3.03	Level 2
BR-HVSG-03	4.160	Other	4.843	4.759	9.821	1.747	1.81	Level 1
BR-HVTR-01 PRI	12.500	Other	20.447	19.605	1.560	1.282	1.55	Level 1
BR-HVTR-01 SEC	4.160	Other	4.905	4.819	9.592	1.730	1.80	Level 1
BR-HVTR-02-PRI	4.160	Other	4.843	4.759	2.497	0.444	0.91	Level 0
BR-HVTR-02-SEC	0.480	Other	15.085	8.617	29.206	14.806	5.27	Level 3
BR-LVSG-01	0.480	Other	14.960	10.063	3.060	1.834	1.85	Level 1
BR-LVSG-02	0.480	Other	13.169	8.983	3.060	1.623	1.74	Level 1
BR-MCC-01	0.480	Other	12.595	8.633	3.000	1.524	1.69	Level 1
BR-PP-01	0.208	Other	1.312	0.884	64.049	2.770	2.28	Level 1
BR-PP-03	0.208	Other	1.838	1.334	0.498	0.034	0.25	Level 0
BR-PP-04	0.208	Other	1.840	1.135	72.517	4.108	2.77	Level 2
BR-PP-06	0.208	Other	1.455	1.123	0.498	0.028	0.23	Level 0
BR-PP-07	0.208	Other	1.921	1.378	0.498	0.035	0.26	Level 0
BR-PP-10	0.480	Other	12.469	8.556	0.831	0.418	0.89	Level 0
BR-Splitter	0.480	Other	9.513	6.724	0.960	0.372	0.84	Level 0
BR-TRAN-01-PRI	0.480	Other	4.274	3.297	0.655	0.117	0.47	Level 0
# BR-TRAN-01-SEC	0.208	Other	0.470	0.470	3558.650	14.218	5.17	Level 3
BR-TRAN-03-PRI	0.480	Other	11.847	8.175	0.600	0.287	0.73	Level 0
BR-TRAN-03-SEC	0.208	Other	0.799	0.613	6.296	0.183	0.59	Level 0
BR-TRAN-04-PRI	0.480	Other	9.048	6.430	0.960	0.355	0.82	Level 0
BR-TRAN-04-SEC	0.208	Other	7.968	3.942	2535.230	551.928	32.16	>Max.
BR-TRAN-05-PRI	0.480	Other	3.451	2.725	0.955	0.139	0.51	Level 0
# BR-TRAN-05-SEC	0.205	Other	0.743	0.743	68.385	0.426	0.89	Level 0
BR-TRAN-07-PRI	0.480	Other	9.994	7.025	1.648	0.670	1.12	Level 0
BR-TRAN-07-SEC	0.600	Other	1.692	1.306	49.627	3.273	2.48	Level 1
BR-TRAN-08-PRI	0.480	Other	1.586	1.363	1.255	0.087	0.40	Level 0
BR-TRAN-08-SEC	0.208	Other	1.403	0.929	58.680	2.678	2.24	Level 1
BR-TRAN-09-PRI	0.480	Other	7.830	5.653	0.885	0.284	0.73	Level 0

Bus			Total Fault Current (kA)		Arc-Flash Analysis Results			
ID	Nom. kV	Type	Bolted	Arcing	FCT (cycles)	Incident E (cal/cm²)	AFB (ft)	Energy Level
BR-TRAN-09-SEC	0.208	Other	2.310	1.343	108.516	7.373	3.72	Level 2
BR-TRAN-10-PRI	0.480	Other	2.595	2.114	0.600	0.067	0.35	Level 0
BR-TRAN-10-SEC	0.208	Other	1.105	0.916	0.600	0.027	0.22	Level 0
DH-DSW-09	0.480	Other	2.739	2.218	0.754	0.088	0.41	Level 0
DH-DSW-10	0.480	Other	2.619	2.131	0.764	0.086	0.40	Level 0
DH-EH-01	0.480	Other	1.333	1.168	0.600	0.035	0.26	Level 0
DO-DSW-09	0.480	Other	0.808	0.635	190.092	5.752	3.28	Level 2
# DO-EMG-04	0.208	Other	0.622	0.622	1213.439	6.412	3.47	Level 2
DO-TRAN-05-PRI	0.480	Other	0.804	0.633	191.610	5.771	3.29	Level 2
# DO-TRAN-05-SEC	0.208	Other	0.636	0.636	1144.910	6.186	3.41	Level 2
FM-ATS-01	0.480	Other	2.236	1.851	3.000	0.288	0.74	Level 0
HH-ATS-01	0.480	Other	2.621	2.133	0.250	0.028	0.23	Level 0
HH-ATS-03	0.480	Other	0.978	0.754	57.792	2.103	1.99	Level 1
HH-DSW-08	0.480	Other	2.656	2.158	3.000	0.340	0.80	Level 0
HH-DSW-15	0.480	Other	0.984	0.757	137.076	5.015	3.07	Level 2
IIC-ATS-01	0.600	Other	1.254	0.981	88.071	4.260	2.83	Level 2
IIC-DSW-02	0.600	Other	1.258	0.983	87.545	4.249	2.82	Level 2
JB BR-1002	0.480	Other	5.851	4.361	0.578	0.140	0.51	Level 0
JB HH-1504	0.480	Other	1.144	0.867	107.130	4.534	2.92	Level 2
JB-HH-1010	0.480	Other	2.690	2.183	3.000	0.345	0.80	Level 0
MU-EH-01	0.480	Other	0.737	0.585	3402.684	94.264	13.29	>Max.
PE-ATS-01	0.480	Other	2.135	1.776	3.000	0.276	0.72	Level 0
PE-DSW-04	0.480	Other	2.157	1.793	3.000	0.279	0.72	Level 0
PE-ESPLT-01	0.480	Other	2.180	1.810	3.000	0.282	0.73	Level 0
SN-ATS-01	0.480	Other	3.790	2.518	1.944	0.261	0.70	Level 0
SN-DP-B1	0.208	Other	4.794	2.709	18.000	2.612	2.21	Level 1
SN-DP-BA	0.480	Other	10.824	7.543	3.000	1.317	1.57	Level 1
# SN-DSW-01	0.480	Other	0.556	0.556	14.499	0.158	0.55	Level 0
SN-DSW-02	0.480	Other	3.900	2.583	1.767	0.243	0.68	Level 0
SN-DSW-03	0.480	Other	3.384	2.276	3.000	0.361	0.82	Level 0
SN-DSW-04	0.480	Other	4.833	3.127	1.150	0.195	0.60	Level 0
SN-DSW-05	0.480	Other	3.826	2.539	1.879	0.254	0.69	Level 0
# SN-EMG-01	0.208	Other	0.231	0.231	232.446	0.457	0.93	Level 0
# SN-EMG-02	0.208	Other	0.517	0.517	62.581	0.275	0.72	Level 0
# SN-EMG-03	0.208	Other	0.323	0.323	296.094	0.813	1.24	Level 0
SN-EMG-B	0.480	Other	0.944	0.730	110.745	3.893	2.70	Level 1

Bus			Total Fault Current (kA)		Arc-Flash Analysis Results			
ID	Nom. kV	Type	Bolted	Arcing	FCT (cycles)	Incident E (cal/cm²)	AFB (ft)	Energy Level
SN-ESPLT-01	0.480	Other	4.952	3.195	1.111	0.193	0.60	Level 0
SN-ESPLT-02	0.480	Other	3.862	2.560	1.821	0.249	0.68	Level 0
# SN-FAP-01	0.208	Other	0.306	0.306	50.705	0.132	0.50	Level 0
SN-LP-04	0.208	Other	1.938	1.179	120.284	7.103	3.65	Level 2
SN-LP-18	0.208	Other	3.790	1.935	275.992	27.845	7.22	Level 4
SN-LP-S51	0.208	Other	2.273	1.327	95.162	6.382	3.46	Level 2
SN-PP-10	0.208	Other	1.065	0.758	203.518	7.449	3.74	Level 2
SN-TRAN-13-PRI	0.480	Other	0.931	0.721	6.944	0.241	0.67	Level 0
# SN-TRAN-13-SEC	0.208	Other	0.520	0.520	61.894	0.273	0.72	Level 0
SN-TRAN-14-PRI	0.480	Other	9.990	7.023	1.741	0.708	1.15	Level 0
SN-TRAN-14-SEC	0.208	Other	5.010	2.799	18.000	2.705	2.25	Level 1
# SN-TRAN-15-PRI	0.480	Other	0.551	0.551	14.754	0.159	0.55	Level 0
# SN-TRAN-15-SEC	0.208	Other	0.325	0.325	292.379	0.808	1.23	Level 0
SN-TRAN-22-PRI	0.480	Other	3.162	2.521	0.250	0.034	0.25	Level 0
# SN-TRAN-22-SEC	0.208	Other	0.234	0.234	211.793	0.421	0.89	Level 0
Splitter	0.208	Other	3.385	1.781	1.481	0.137	0.51	Level 0
TU-ESPLT-01	0.480	Other	3.090	2.099	3.000	0.330	0.79	Level 0
TU-JB	0.480	Other	3.121	2.118	3.000	0.334	0.79	Level 0

The theoretically derived Lee method was used to determine the incident energy and arc flash boundary for this location since the bolted fault current or nominal voltage are outside the empirical method range. ((Ibf" < 0.7 kA or Ibf" > 106 kA) and (0.208 ≤ Nominal kV ≤ 15 kV))


HU-01 40kW (No Label)
0.6 kV
HRU-01 57kW (No Label)
0.6 kV
BU-DSW-09.
0 A
BU-DSW-HRU-01.
0 A
BU-DSW-09
0.6 kV
BU-DSW-HRU-01
0.6 kV
BU-TRAN-02
150 kVA
0.6/0.208 kV
5.5 %Z
BU-TRAN-02-HV
0.6 kV
BU-TRAN-02-LV
0.208 kV
BU-HTP-01
0.6 kV
BU-HTP-02
0.6 kV
BU-HTP-03
0.6 kV
BU-HTP-04
0.6 kV
Cable24
2 m
1-3/C 3
Cable26
10 m
1-3/C 3
Cable21
13 m
1-3/C 3
Cable22
16 m
1-3/C 3
ESTIMATED LENGHT
Cable12
16 m
1-3/C 6
ESTIMATED LENGHT
Cable28
20 m
1-3/C 3
Cable34
5 m
1-3/C 3/0
Cable9
3 m
2-3/C 350
ASSUMED TYPE FD BREAKERS AT BU-DP-01 PER PICTURES
CB_BU-HTP-01
100 A
CB_BU-HTP-02
100 A
CB_BU-HTP-03
100 A
CB_BU-HTP-04
100 A
CB_BU-DSW-09
60 A
CB_BU-DSW-HRU-1
100 A
CB_BU-TRAN-02
200 A
BU-DP-01
0.6 kV
BU-DP-03
0.208 kV
BU-PP-01
0.208 kV
BU-PP-02
0.208 kV
BU-PP-04
0.208 kV
BU-PP-05
0.208 kV
BU-PP-06
0.208 kV
BU-PP-07
0.208 kV
BU-PP-08
0.208 kV
BU-PP-09
0.208 kV
Cable11
3 m
1-3/C 3/0
Cable47
25 m
1-3/C 1/0
Cable49
10 m
1-3/C 1/0
Cable14
10 m
1-3/C 1/0
Cable54
13 m
1-3/C 1/0
Cable51
13 m
1-3/C 1/0
Cable55
16 m
1-3/C 1/0
Cable52
16 m
1-3/C 1/0
CB_BU-PP-01
200 A
CB_BU-PP-02
150 A
CB_BU-PP-04
150 A
CB_BU-PP-05
150 A
CB_BU-PP-06
150 A
CB_BU-PP-07
150 A
CB_BU-PP-08
150 A
CB_BU-PP-09
150 A
Dummy
0.001 m
2-3/C 350
CB_BU-DSW-07
70 A
CB_BU-DSW-08
70 A
CB_BU-ATS-01-N
70 A
BU-LVSG-01
600 A
ESTIMATED LENGHT
Cable7
10 m
1-3/C 4
ESTIMATED LENGHT
Cable8
10 m
1-3/C 4
Cable32
4 m
1-3/C 4
LTG CONTACTOR CABLES ESTIMATED SIZE AND LENGTH BASED ON BKR SIZE.
Cable3
3 m
1-3/C 10
LTG CONTACTOR CABLES ESTIMATED SIZE AND LENGTH BASED ON BKR SIZE.
Cable10
3 m
1-3/C 10
CB_BU-LRP-01
30 A
CB_BU-LRP-02
30 A
CB_BU-PP-10
60 A
DO-MAX 04
1.118 MVAsc
1.3 kA
DO-MAX 10
1.118 MVAsc
1.3 kA
DO-MIN 04
1.112 MVAsc
1.3 kA
DO-MIN 10
1.112 MVAsc
1.3 kA
DO-EMERGENCY
0.716 MVAsc
0.9 kA
SW13
0 A
SW11
0 A
SW10
0 A
SW7
0 A
SW5
0 A
Open
BU-LRP-01 (No Label)
0.208 kV
BU-LRP-02 (No Label)
0.208 kV
BU-PP-10
0.208 kV
0.48 kV
DO-EMG-03 (No Label)
BU-LVSG-01-MAIN
0.6 kV
BU-DSW-07
0.6 kV
BU-DSW-08
0.6 kV
BU-ATS-01-N
0.6 kV
Cable1
15 m
2-3/C 350
BU-DSW-07.
100 A
BU-DSW-08.
100 A
Cable15
10 m
1-3/C 6
CB_BU-DSW-04
15 A
CB_BU-DSW-05
20 A
ESTIMATED LENGHT
Cable30
5 m
1-3/C 6
Cable DO - BU
132 m
3-1/C 12
0.6 kV
BU-DHWT-01 (No Label)
0.6 kV
BU-DHWT-02 (No Label)
BU-HVTR-01-LV
0.6 kV
BU-ATS-01-N
0.6 kV
BU-EMG-01
0.208 kV
BU-DSW-04
0.208 kV
BU-DSW-04.
0 A
BU-DSW-05
0.48 kV
PA3
AB
BU-EF-2 (No Label)
0.208 kV
BU-HVTR-01
12.5/0.6 kV
500 kVA
3.88 %Z
BU-ATS-01-E
0.6 kV
BU-ATS-01
200 A
Cable45
0.5 m
1-3/C 3/0
Fuse_BU-DSW-01
100 A
COFIRMED IN RFI 55
Fuse_BU-DSW-05
30 A
Cable43
9 m
3-1/C 8
Cable20
25 m
1-3/C 3/0
Cable 100
0.5 m
2-1/C 12
TRANSFORMER FUSES CONFIRMED RFI C13 (b)
BAYONET
25 A
CL FUSE
125 A
BU-DSW-01
0.208 kV
BU-DSW-02
0.6 kV
BU-ATS-01-L
0.6 kV
BU-TRAN-01-LV
0.208 kV
BU-TRAN-03-HV
0.48 kV
BU-TRAN-01
45 kVA
0.6/0.208 kV
3.7 %Z
BU-TRAN-03
0.1 kVA
0.48/0.115 kV
2.3 %Z
Cable63
95 m
3-1/C 8
Cable35
3 m
1-3/C 4
BU-TRAN-01-HV
0.6 kV
BU-TRAN-03-LV
0.115 kV
HA Building (No Label)
CB_BU-ATS-01-E
40 A
Cable36
4 m
1-3/C 6
ESTIMATED CABLE #10 AND LENGTH PER PHOTOS BU-TRAN-03
Cable6
1 m
2-1/C 10
HA-DPE-02
0.6 kV
Dummy 2
0.001 m
3-3/C 500
CB_BU-TRAN-01
60 A
BU-DSW-06
0.115 kV
CB_HA-DPE-02
1200 A
HA-LVSG-02-MAIN
0.6 kV
BU-DPE-01
0.6 kV
Cable42
55 m
3-3/C 500
DSW-06
0 A
Open
PRESS FAN #1 (No Label)
0.24 kV
CB_HA_LVSG-02
1200 A
HA-GEN-01
0.6 kV
900 kW
Gen1
MUN_12_B1 MIN
107.756 MVAsc
5 kA
ME_UTIL_Paralleled
277.684 MVAsc
12.9 kA
SW2
SW1
0 A
Open
ME_SUB
12.47 kV
MUN 10 FEEDER
1200 A
MUN 04 FEEDER
1200 A
CableCX-HVACB-01
270 m
3-1/C 500
CableCX-HVACB-02
210 m
3-1/C 500
SST
CX-HVACB-01
1200 A
Open
CX-HVACB-02
1200 A
NEW RES SUB-A
12.47 kV
NEW RES SUB-B
12.47 kV
CX-HVACB-03
1200 A
CX-HVACB-04
600 A
CX-HVACB-06
600 A
Open
CableHA-HVTR-01
62 m
3-1/C 4/0
CableCX-HVACB-04
170 m
3-1/C 4/0
HA-HVTR-01_HV
12.47 kV
CU-HVTR-01_HV
12.47 kV
CableBL-HVTR-01
130 m
3-1/C 4/0
CableCU-HVTR-01
37 m
3-1/C 4/0
BL-HVTR-01_HV
12.47 kV
SQ-HVTR-01-HV
12.47 kV
CableDO-HVTR-01
72 m
3-1/C 4/0
CableSQ-HVTR-01
14 m
3-1/C 4/0
DO-HVTR-01_HV
12.47 kV
BU-HVTR-01-HV
12.47 kV
CableBA-HVTR-01
15 m
3-1/C 4/0
CableBU-HVTR-01
50 m
3-1/C 4/0
BA-HVTR-01_HV
12.47 kV
BO-HVTR-01_HV
12.47 kV
CableRO-HVTR-01
41 m
3-1/C 4/0
CableBO-HVTR-01
110 m
3-1/C 4/0
RO-HVTR-01_HV
12.47 kV

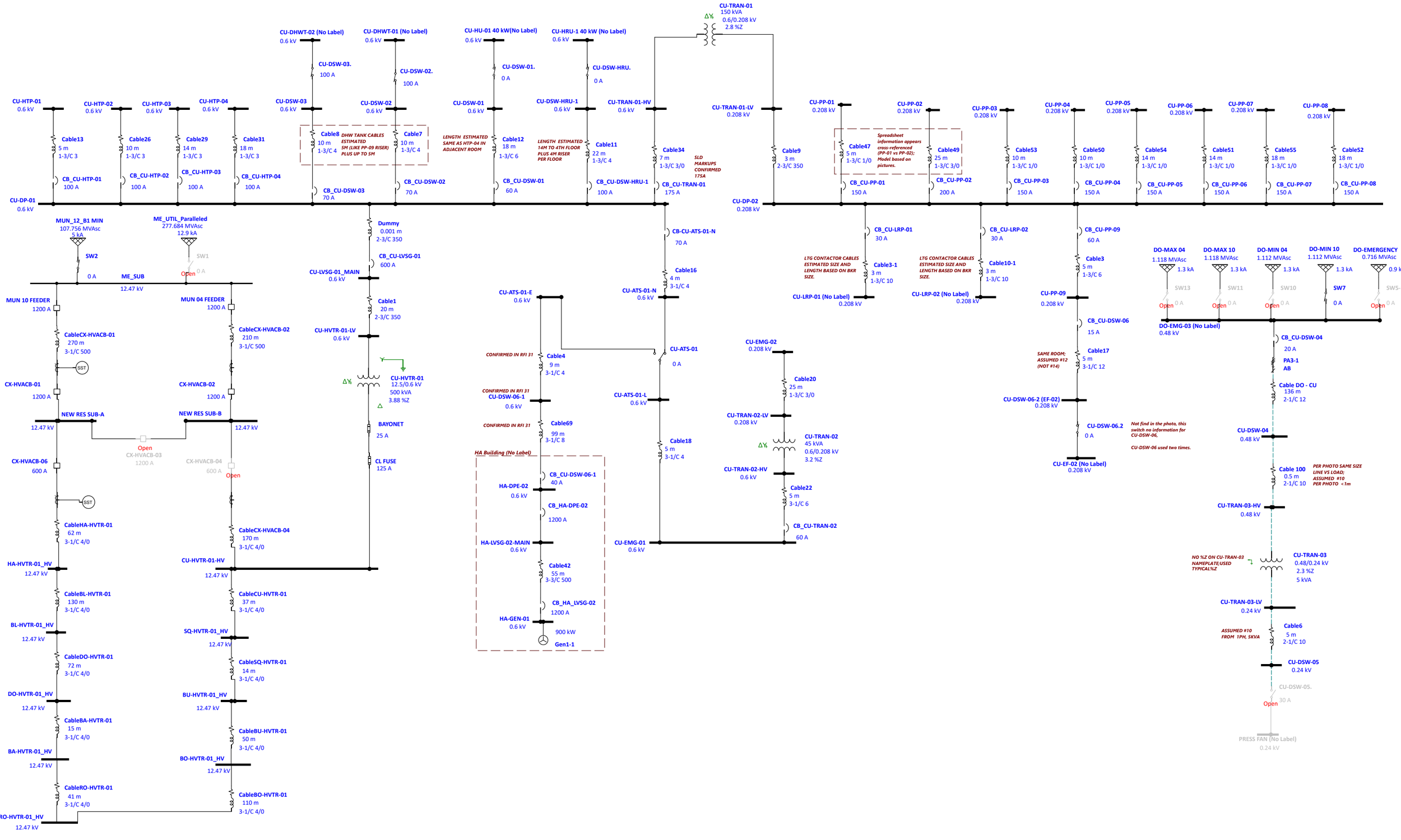
Arc Flash Labels for Panels

VDP_TAG	VDP_INCIDENT	VDP_WORKING	VDP_ARCFLASH	VDP_NOMINAL	VDP_PERFORMED	VDP_Limited	VDP_Restricted	VDP_Gloves	VDP_Equipment	VDP_Location	VDP_Fed From
BU-ATS-01-E	1.3 cal/cm²	610mm (24in)	636mm (25in)	600VAC	##########	1.1m (42in)	305mm (12in)	0	Switchboard	BU-102	BU-DSW-02_NO FUSED
BU-ATS-01-N	0.17 cal/cm²	610mm (24in)	181mm (7in)	600VAC	##########	1.1m (42in)	305mm (12in)	0	Switchboard	BU-102	BU-DP-01_CB_BU-ATS-01-N
BU-DP-01	0.18 cal/cm²	610mm (24in)	185mm (7in)	600VAC	##########	1.1m (42in)	305mm (12in)	0	Switchboard	BU-102	BU-LVSG-01_BU-LVSG-01
BU-DP-03	117.04 cal/cm²	610mm (24in)	10706mm (421in)	208VAC	##########	1.1m (42in)	305mm (12in)	0	Switchboard	BU-102	BU-DP-01_CB_BU-TRAN-02
BU-DPE-01	1.32 cal/cm²	610mm (24in)	645mm (25in)	600VAC	##########	1.1m (42in)	305mm (12in)	0	Switchboard	BU-102	BU-ATS-01
BU-DSW-01	19.69 cal/cm²	457mm (18in)	2632mm (104in)	208VAC	##########	1.1m (42in)	305mm (12in)	0	Panelboard	BU-108	BU-DPE-01_CB_BU-TRAN-01
BU-DSW-02	0.05 cal/cm²	457mm (18in)	61mm (2in)	600VAC	##########	1.1m (42in)	305mm (12in)	0	Panelboard	BU-102	HA-DPE-02_CB_BU-ATS-01-E
BU-DSW-04	0.02 cal/cm²	457mm (18in)	40mm (2in)	208VAC	##########	1.1m (42in)	305mm (12in)	0	Panelboard	BU-0002	BU-PP-10_CB_BU-DSW-04
BU-DSW-05	0.61 cal/cm²	457mm (18in)	299mm (12in)	480VAC	##########	1.1m (42in)	305mm (12in)	0	Panelboard	BU-0002	DO-EMG-03_CB_BU-DSW-05
BU-DSW-06	0.11 cal/cm²	457mm (18in)	103mm (4in)	115VAC	##########	1.1m (42in)	305mm (12in)	0	Panelboard	BU-0002	BU-DSW-05_Fuse_BU-DSW-05
BU-DSW-07	0.25 cal/cm²	457mm (18in)	170mm (7in)	600VAC	##########	1.1m (42in)	305mm (12in)	0	Panelboard	BU-0002	BU-DP-01_CB_BU-DSW-07
BU-DSW-08	0.25 cal/cm²	457mm (18in)	170mm (7in)	600VAC	##########	1.1m (42in)	305mm (12in)	0	Panelboard	BU-0002	BU-DP-01_CB_BU-DSW-08
BU-DSW-09	0.19 cal/cm²	457mm (18in)	143mm (6in)	600VAC	##########	1.1m (42in)	305mm (12in)	0	Panelboard	BU-424	BU-DP-01_CB_BU-DSW-09
BU-DSW-HRU-01	0.22 cal/cm²	457mm (18in)	158mm (6in)	600VAC	##########	1.1m (42in)	305mm (12in)	0	Panelboard	ROOF	BU-DP-01_CB_BU-DSW-HRU-1
BU-EMG-01	10.76 cal/cm²	457mm (18in)	1802mm (71in)	208VAC	##########	1.1m (42in)	305mm (12in)	0	Panelboard	BU-108	BU-DSW-01_Fuse_BU-DSW-01
BU-HTP-01	0.25 cal/cm²	457mm (18in)	173mm (7in)	600VAC	##########	1.1m (42in)	305mm (12in)	0	Panelboard	BU-102	BU-DP-01_CB_BU-HTP-01
BU-HTP-02	0.25 cal/cm²	457mm (18in)	172mm (7in)	600VAC	##########	1.1m (42in)	305mm (12in)	0	Panelboard	BU-223	BU-DP-01_CB_BU-HTP-02
BU-HTP-03	0.25 cal/cm²	457mm (18in)	169mm (7in)	600VAC	##########	1.1m (42in)	305mm (12in)	0	Panelboard	BU-323	BU-DP-01_CB_BU-HTP-03
BU-HTP-04	0.23 cal/cm²	457mm (18in)	164mm (6in)	600VAC	##########	1.1m (42in)	305mm (12in)	0	Panelboard	BU-423	BU-DP-01_CB_BU-HTP-04
BU-HVTR-01-HV	1.06 cal/cm²	914mm (36in)	846mm (33in)	12470VAC	##########	1.5m (60in)	658mm (26in)	2	Cable Bus	PADMOUNT	_CX-HVACB-04
BU-HVTR-01-LV	1.63 cal/cm²	457mm (18in)	553mm (22in)	600VAC	##########	1.1m (42in)	305mm (12in)	0	Cable Bus	PADMOUNT	_BAYONET
BU-LVSG-01-MAIN	1.45 cal/cm²	610mm (24in)	686mm (27in)	600VAC	##########	1.1m (42in)	305mm (12in)	0	Switchgear	BU-102	BU-HVTR-01_BAYONET
BU-PP-01	18.13 cal/cm²	457mm (18in)	2499mm (98in)	208VAC	##########	1.1m (42in)	305mm (12in)	0	Panelboard	BU-108	BU-DP-03_CB_BU-PP-01
BU-PP-02	0.11 cal/cm²	457mm (18in)	102mm (4in)	208VAC	##########	1.1m (42in)	305mm (12in)	0	Panelboard	BU-102	BU-DP-03_CB_BU-PP-02
BU-PP-04	0.1 cal/cm²	457mm (18in)	98mm (4in)	208VAC	##########	1.1m (42in)	305mm (12in)	0	Panelboard	BU-223	BU-DP-03_CB_BU-PP-04
BU-PP-05	0.1 cal/cm²	457mm (18in)	98mm (4in)	208VAC	##########	1.1m (42in)	305mm (12in)	0	Panelboard	BU-223	BU-DP-03_CB_BU-PP-05
BU-PP-06	0.1 cal/cm²	457mm (18in)	97mm (4in)	208VAC	##########	1.1m (42in)	305mm (12in)	0	Panelboard	BU-323	BU-DP-03_CB_BU-PP-06
BU-PP-07	0.1 cal/cm²	457mm (18in)	97mm (4in)	208VAC	##########	1.1m (42in)	305mm (12in)	0	Panelboard	BU-323	BU-DP-03_CB_BU-PP-07
BU-PP-08	0.1 cal/cm²	457mm (18in)	96mm (4in)	208VAC	##########	1.1m (42in)	305mm (12in)	0	Panelboard	BU-423	BU-DP-03_CB_BU-PP-08
BU-PP-09	0.1 cal/cm131	457mm (18in)	96mm (4in)	208VAC	##########	1.1m (42in)	305mm (12in)	0	Panelboard	BU-423	BU-DP-03_CB_BU-PP-09
BU-PP-10	0.03 cal/cm132	457mm (18in)	46mm (2in)	208VAC	##########	1.1m (42in)	305mm (12in)	0	Panelboard	BU-0002	BU-DP-03_CB_BU-PP-10
BU-TRAN-01-HV	1.33 cal/cm133	457mm (18in)	485mm (19in)	600VAC	##########	1.1m (42in)	305mm (12in)	0	Cable Bus	BU-102	BU-DPE-01_CB_BU-TRAN-01
BU-TRAN-01-LV	11.39 cal/cm134	457mm (18in)	1869mm (74in)	208VAC	##########	1.1m (42in)	305mm (12in)	0	Cable Bus	BU-102	BU-DPE-01_CB_BU-TRAN-01
BU-TRAN-02-HV	0.21 cal/cm135	457mm (18in)	152mm (6in)	600VAC	##########	1.1m (42in)	305mm (12in)	0	Cable Bus	BU-102	BU-DP-01_CB_BU-TRAN-02
BU-TRAN-02-LV	107.43 cal/cm136	457mm (18in)	7610mm (300in)	208VAC	##########	1.1m (42in)	305mm (12in)	0	Cable Bus	BU-102	BU-DP-01_CB_BU-TRAN-02
BU-TRAN-03-HV	3.94 cal/cm137	457mm (18in)	962mm (38in)	480VAC	##########	1.1m (42in)	305mm (12in)	0	Cable Bus	BU-0002	BU-DSW-05_Fuse_BU-DSW-05
BU-TRAN-03-LV	0.1 cal/cm138	457mm (18in)	95mm (4in)	115VAC	##########	1.1m (42in)	305mm (12in)	0	Cable Bus	BU-0002	BU-DSW-05_Fuse_BU-DSW-05

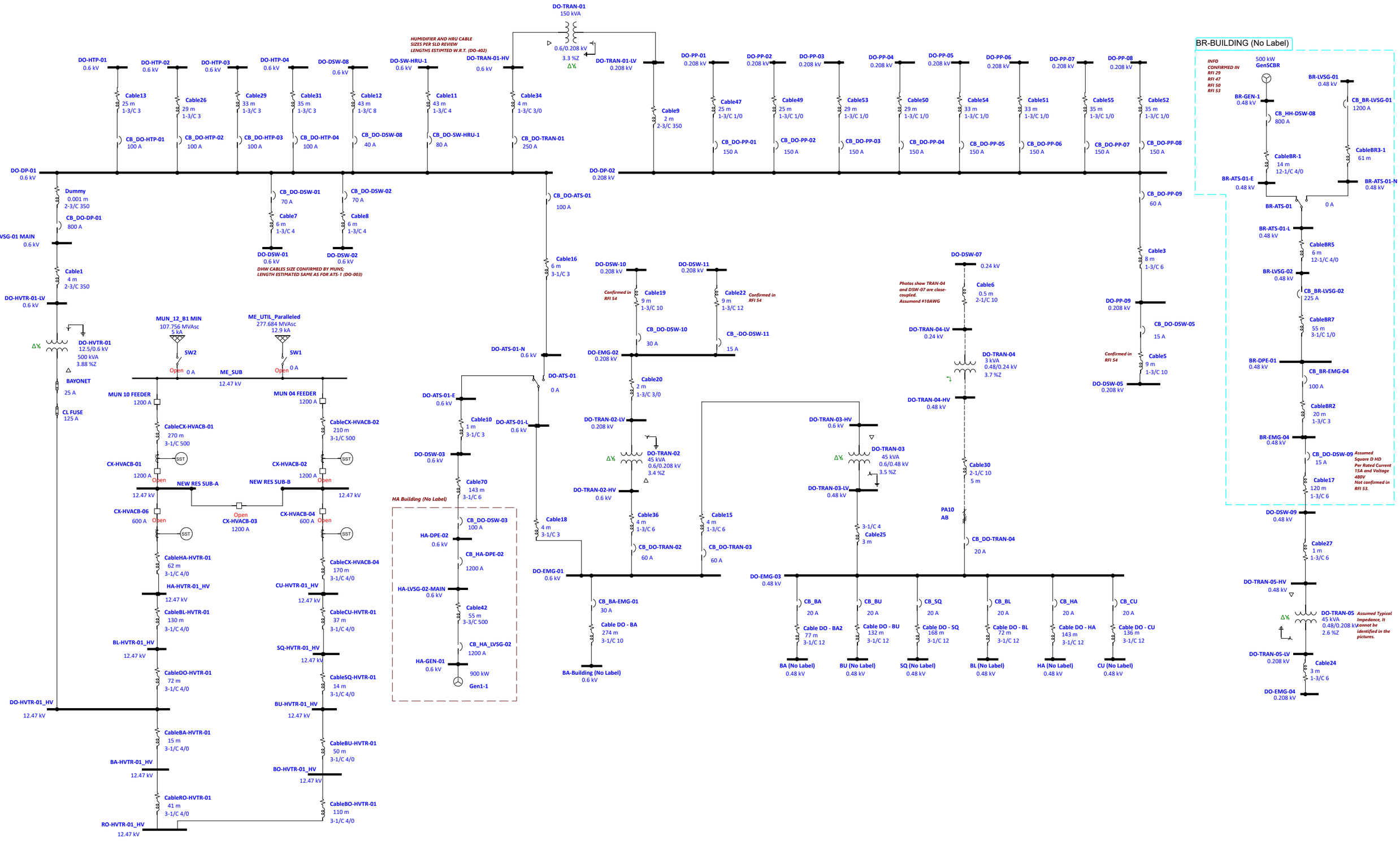
Arc Flash Labels for Panels

VDP_TAG	VDP_INCIDENT	VDP_WORKING	VDP_ARCFLASH	VDP_NOMINAL	VDP_PERFORMED	VDP_Limited	VDP_Restricted	VDP_Gloves	VDP_Equipment	VDP_Location	VDP_Fed From
CU-ATS-01-E	1.26 cal/cm²	610mm (24in)	626mm (25in)	600VAC	Monday, February 2, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	CU-101	CU-DSW-06-1_CB_CU-DSW-06-1
CU-ATS-01-N	0.22 cal/cm²	610mm (24in)	210mm (8in)	600VAC	Monday, February 2, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	CU-101	CU-DP-01_CB-CU-ATS-01-N
CU-DP-01	0.71 cal/cm²	610mm (24in)	438mm (17in)	600VAC	Monday, February 2, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	CU-101	CU-LVSG-01_CB_CU-LVSG-01
CU-DP-02	22.88 cal/cm²	610mm (24in)	3855mm (152in)	208VAC	Monday, February 2, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	CU-101	CU-DP-01_CB_CU-TRAN-01
CU-DSW-01	0.21 cal/cm²	457mm (18in)	153mm (6in)	600VAC	Monday, February 2, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	CU-424	CU-DP-01_CB_CU-DSW-01
CU-DSW-02	0.29 cal/cm²	457mm (18in)	190mm (7in)	600VAC	Monday, February 2, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	CU-0001	CU-DP-01_CB_CU-DSW-02
CU-DSW-03	0.29 cal/cm²	457mm (18in)	190mm (7in)	600VAC	Monday, February 2, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	CU-0001	CU-DP-01_CB_CU-DSW-03
CU-DSW-04	0.72 cal/cm²	457mm (18in)	331mm (13in)	480VAC	Monday, February 2, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	CU-0001	DO-EMG-03_CB_CU-DSW-04
CU-DSW-05	4.74 cal/cm²	457mm (18in)	1080mm (43in)	240VAC	Monday, February 2, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	CU-0001	CU-DSW-04_CB_CU-DSW-04
CU-DSW-06-1	0.05 cal/cm²	457mm (18in)	62mm (2in)	600VAC	Monday, February 2, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	CU-101	HA-DPE-02_CB_CU-DSW-06-1
CU-DSW-06-2 (EF-02)	0.04 cal/cm²	457mm (18in)	52mm (2in)	208VAC	Monday, February 2, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	CU-0001	CU-PP-09_CB_CU-DSW-06
CU-DSW-HRU-1	0.24 cal/cm²	457mm (18in)	166mm (7in)	600VAC	Monday, February 2, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	ROOF	CU-DP-01_CB_CU-DSW-HRU-1
CU-EMG-01	1.83 cal/cm²	457mm (18in)	592mm (23in)	600VAC	Monday, February 2, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	CU-101	CU-ATS-01
CU-EMG-02	13.06 cal/cm²	457mm (18in)	2034mm (80in)	208VAC	Monday, February 2, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	CU-107	CU-EMG-01_CB_CU-TRAN-02
CU-HTP-01	0.34 cal/cm²	457mm (18in)	206mm (8in)	600VAC	Monday, February 2, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	CU-101	CU-DP-01_CB_CU-HTP-01
CU-HTP-02	0.31 cal/cm²	457mm (18in)	196mm (8in)	600VAC	Monday, February 2, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	CU-223	CU-DP-01_CB_CU-HTP-02
CU-HTP-03	0.29 cal/cm²	457mm (18in)	189mm (7in)	600VAC	Monday, February 2, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	CU-323	CU-DP-01_CB_CU-HTP-03
CU-HTP-04	0.27 cal/cm²	457mm (18in)	181mm (7in)	600VAC	Monday, February 2, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	CU-423	CU-DP-01_CB_CU-HTP-04
CU-HVTR-01-HV	0.91 cal/cm²	914mm (36in)	768mm (30in)	12470VAC	Monday, February 2, 2026	1.5m (60in)	658mm (26in)	2	Cable Bus	PADMOUNT	_CX-HVACB-06
CU-HVTR-01-LV	1.63 cal/cm²	457mm (18in)	554mm (22in)	600VAC	Monday, February 2, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	PADMOUNT	_BAYONET
CU-LVSG-01_MAIN	1.46 cal/cm²	610mm (24in)	688mm (27in)	600VAC	Monday, February 2, 2026	1.1m (42in)	305mm (12in)	0	Switchgear	CU-101	CU-HVTR-01_BAYONET
CU-PP-01	0.18 cal/cm²	457mm (18in)	137mm (5in)	208VAC	Monday, February 2, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	CU-101	CU-DP-02_CB_CU-PP-01
CU-PP-02	27.79 cal/cm²	457mm (18in)	3265mm (129in)	208VAC	Monday, February 2, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	CU-101	CU-DP-02_CB_CU-PP-02
CU-PP-03	0.18 cal/cm²	457mm (18in)	139mm (5in)	208VAC	Monday, February 2, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	CU-223	CU-DP-02_CB_CU-PP-03
CU-PP-04	0.18 cal/cm²	457mm (18in)	139mm (5in)	208VAC	Monday, February 2, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	CU-223	CU-DP-02_CB_CU-PP-04
CU-PP-05	0.21 cal/cm²	457mm (18in)	151mm (6in)	208VAC	Monday, February 2, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	CU-323	CU-DP-02_CB_CU-PP-05
CU-PP-06	0.21 cal/cm²	457mm (18in)	151mm (6in)	208VAC	Monday, February 2, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	CU-323	CU-DP-02_CB_CU-PP-06
CU-PP-07	17.29 cal/cm²	457mm (18in)	2427mm (96in)	208VAC	Monday, February 2, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	CU-423	CU-DP-02_CB_CU-PP-07
CU-PP-08	17.29 cal/cm²	457mm (18in)	2427mm (96in)	208VAC	Monday, February 2, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	CU-423	CU-DP-02_CB_CU-PP-08
CU-PP-09	0.12 cal/cm²	457mm (18in)	109mm (4in)	208VAC	Monday, February 2, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	CU-0001	CU-DP-02_CB_CU-PP-09
CU-TRAN-01-HV	0.29 cal/cm²	457mm (18in)	188mm (7in)	600VAC	Monday, February 2, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	CU-101	CU-DP-01_CB_CU-TRAN-01
CU-TRAN-01-LV	0.49 cal/cm²	457mm (18in)	259mm (10in)	208VAC	Monday, February 2, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	CU-101	CU-DP-01_CB_CU-TRAN-01
CU-TRAN-02-HV	0.91 cal/cm²	457mm (18in)	381mm (15in)	600VAC	Monday, February 2, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	CU-101	CU-EMG-01_CB_CU-TRAN-02
CU-TRAN-02-LV	9.86 cal/cm²	457mm (18in)	1706mm (67in)	208VAC	Monday, February 2, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	CU-101	CU-EMG-01_CB_CU-TRAN-02
CU-TRAN-03-HV	0.54 cal/cm²	457mm (18in)	277mm (11in)	480VAC	Monday, February 2, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	CU-0001	CU-DSW-04_CB_CU-DSW-04
CU-TRAN-03-LV	2.76 cal/cm²	457mm (18in)	769mm (30in)	240VAC	Monday, February 2, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	CU-0001	CU-DSW-04_CB_CU-DSW-04

One-Line Diagram - CU | Edit Mode



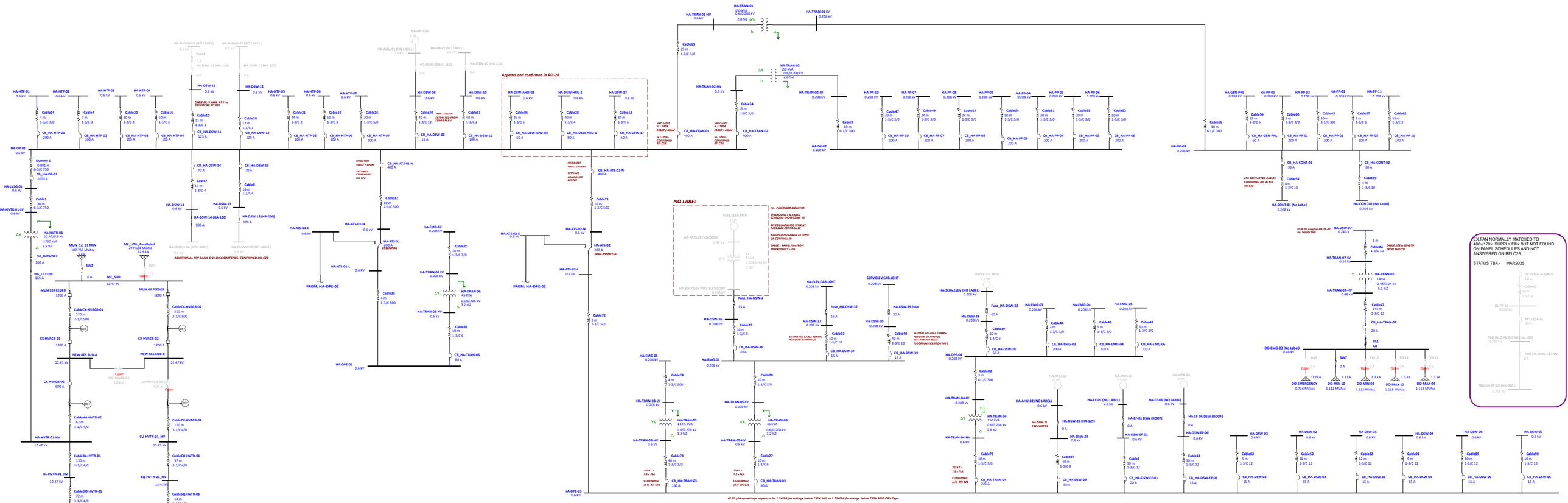
One-Line Diagram - DO | Edit Mode



Arc Flash Labels for Panels

VDP_TAG	VDP_INCIDENT	VDP_WORKING	VDP_ARCFLASH	VDP_NOMINAL	VDP_PERFORMED	VDP_Limited	VDP_Restricted	VDP_Gloves	VDP_Equipment	VDP_Location	VDP_Fed From
DO-ATS-01-E	6.44 cal/cm²	610mm (24in)	1743mm (69in)	600VAC	May 11,2026	1.1m (42in)	305mm (12in)	0	Switchboard	DO-0003	DO-DSW-03_CB_DO-DSW-03
DO-ATS-01-N	0.23 cal/cm²	610mm (24in)	214mm (8in)	600VAC	May 11,2026	1.1m (42in)	305mm (12in)	0	Switchboard	DO-0003	DO-DP-01_CB_DO-ATS-01
DO-DP-01	0.73 cal/cm²	610mm (24in)	447mm (18in)	600VAC	May 11,2026	1.1m (42in)	305mm (12in)	0	Switchboard	DO-119	DO-LVSG-01_CB_DO-DP-01
DO-DP-02	0.3 cal/cm²	610mm (24in)	258mm (10in)	208VAC	May 11,2026	1.1m (42in)	305mm (12in)	0	Switchboard	DO-119	DO-DP-01_CB_DO-TRAN-01
DO-DSW-01	0.33 cal/cm²	457mm (18in)	203mm (8in)	600VAC	May 11,2026	1.1m (42in)	305mm (12in)	0	Panelboard	DO-0003	DO-DP-01_CB_DO-DSW-01
DO-DSW-02	0.33 cal/cm²	457mm (18in)	203mm (8in)	600VAC	May 11,2026	1.1m (42in)	305mm (12in)	0	Panelboard	DO-0003	DO-DP-01_CB_DO-DSW-02
DO-DSW-03	9.24 cal/cm²	457mm (18in)	1638mm (64in)	600VAC	May 11,2026	1.1m (42in)	305mm (12in)	0	Panelboard	DO-0003	HA-DPE-02_CB_DO-DSW-03
DO-DSW-05	0.03 cal/cm²	457mm (18in)	46mm (2in)	208VAC	May 11,2026	1.1m (42in)	305mm (12in)	0	Panelboard	DO-0003	DO-PP-09_CB_DO-DSW-05
DO-DSW-07	5.2 cal/cm²	457mm (18in)	1143mm (45in)	240VAC	May 11,2026	1.1m (42in)	305mm (12in)	0	Panelboard	DO-0003	DO-EMG-03_CB_DO-TRAN-04
DO-DSW-08	0.08 cal/cm²	457mm (18in)	82mm (3in)	600VAC	May 11,2026	1.1m (42in)	305mm (12in)	0	Panelboard	DO-402A	DO-DP-01_CB_DO-DSW-08
DO-DSW-09	0.75 cal/cm²	457mm (18in)	338mm (13in)	480VAC	May 11,2026	1.1m (42in)	305mm (12in)	0	Panelboard	TP-1002	BR-EMG-04_CB_DO-DSW-09
DO-DSW-10	0.55 cal/cm²	457mm (18in)	278mm (11in)	208VAC	May 11,2026	1.1m (42in)	305mm (12in)	0	Panelboard	DO-0002	DO-EMG-02_CB_DO-DSW-10
DO-DSW-11	0.02 cal/cm²	457mm (18in)	34mm (1in)	208VAC	May 11,2026	1.1m (42in)	305mm (12in)	0	Panelboard	DO-0002	DO-EMG-02_CB_-DO-DSW-11
DO-EMG-01	9.33 cal/cm²	457mm (18in)	1648mm (65in)	600VAC	May 11,2026	1.1m (42in)	305mm (12in)	0	Panelboard	DO-0003	DO-ATS-01
DO-EMG-02	14.87 cal/cm²	457mm (18in)	2207mm (87in)	208VAC	May 11,2026	1.1m (42in)	305mm (12in)	0	Panelboard	DO-0003	DO-EMG-01_CB_DO-TRAN-02
DO-EMG-03	0.13 cal/cm²	457mm (18in)	115mm (5in)	480VAC	May 11,2026	1.1m (42in)	305mm (12in)	0	Panelboard	DO-0003	DO-EMG-01_CB_DO-TRAN-03
DO-EMG-04	1.87 cal/cm²	457mm (18in)	601mm (24in)	208VAC	May 11,2026	1.1m (42in)	305mm (12in)	0	Panelboard	TP-1002	DO-DSW-09_No fuse
DO-HTP-01	0.25 cal/cm²	457mm (18in)	172mm (7in)	600VAC	May 11,2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-105	DO-DP-01_CB_DO-HTP-01
DO-HTP-02	0.24 cal/cm²	457mm (18in)	166mm (7in)	600VAC	May 11,2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-207	DO-DP-01_CB_DO-HTP-02
DO-HTP-03	0.22 cal/cm²	457mm (18in)	159mm (6in)	600VAC	May 11,2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-307	DO-DP-01_CB_DO-HTP-03
DO-HTP-04	0.22 cal/cm²	457mm (18in)	156mm (6in)	600VAC	May 11,2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-407	DO-DP-01_CB_DO-HTP-04
DO-HVTR-01_HV	1.02 cal/cm²	914mm (36in)	824mm (32in)	12470VAC	May 11,2026	1.5m (60in)	658mm (26in)	2	Cable Bus	PADMOUNT	CX-HVACB-06
DO-HVTR-01-LV	1.63 cal/cm²	457mm (18in)	553mm (22in)	600VAC	May 11,2026	1.1m (42in)	305mm (12in)	0	Cable Bus	PADMOUNT	DO-HVTR-01_BAYONET
DO-LVSG-01 MAIN	1.43 cal/cm²	610mm (24in)	680mm (27in)	600VAC	May 11,2026	1.1m (42in)	305mm (12in)	0	Switchgear	DO-119	DO-HVTR-01_BAYONET
DO-PP-01	0.28 cal/cm²	457mm (18in)	184mm (7in)	208VAC	May 11,2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-105	DO-DP-02_CB_DO-PP-01
DO-PP-02	0.28 cal/cm²	457mm (18in)	184mm (7in)	208VAC	May 11,2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-105	DO-DP-02_CB_DO-PP-02
DO-PP-03	0.26 cal/cm²	457mm (18in)	175mm (7in)	208VAC	May 11,2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-207	DO-DP-02_CB_DO-PP-03
DO-PP-04	0.26 cal/cm²	457mm (18in)	175mm (7in)	208VAC	May 11,2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-207	DO-DP-02_CB_DO-PP-04
DO-PP-05	0.24 cal/cm²	457mm (18in)	168mm (7in)	208VAC	May 11,2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-307	DO-DP-02_CB_DO-PP-05
DO-PP-06	0.24 cal/cm²	457mm (18in)	168mm (7in)	208VAC	May 11,2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-307	DO-DP-02_CB_DO-PP-06
DO-PP-07	0.23 cal/cm²	457mm (18in)	164mm (6in)	208VAC	May 11,2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-407	DO-DP-02_CB_DO-PP-07
DO-PP-08	0.23 cal/cm²	457mm (18in)	164mm (6in)	208VAC	May 11,2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-407	DO-DP-02_CB_DO-PP-08
DO-PP-09	0.1 cal/cm²	457mm (18in)	99mm (4in)	208VAC	May 11,2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-0003	DO-DP-02_CB_DO-PP-09
DO-SW-HRU-1	0.16 cal/cm²	457mm (18in)	132mm (5in)	600VAC	May 11,2026	1.1m (42in)	305mm (12in)	0	Panelboard	ROOF	DO-DP-01_CB_DO-SW-HRU-1
DO-TRAN-01-HV	0.92 cal/cm²	457mm (18in)	387mm (15in)	600VAC	May 11,2026	1.1m (42in)	305mm (12in)	0	Cable Bus	DO-119	DO-DP-01_CB_DO-TRAN-01
DO-TRAN-01-LV	0.45 cal/cm²	457mm (18in)	246mm (10in)	208VAC	May 11,2026	1.1m (42in)	305mm (12in)	0	Cable Bus	DO-119	DO-DP-01_CB_DO-TRAN-01
DO-TRAN-02-HV	0.24 cal/cm²	457mm (18in)	167mm (7in)	600VAC	May 11,2026	1.1m (42in)	305mm (12in)	0	Cable Bus	DO-0003	DO-EMG-01_CB_DO-TRAN-02
DO-TRAN-02-LV	13.69 cal/cm²	457mm (18in)	2095mm (82in)	208VAC	May 11,2026	1.1m (42in)	305mm (12in)	0	Cable Bus	DO-0003	DO-EMG-01_CB_DO-TRAN-02
DO-TRAN-03-HV	0.24 cal/cm²	457mm (18in)	167mm (7in)	600VAC	May 11,2026	1.1m (42in)	305mm (12in)	0	Cable Bus	DO-0003	DO-EMG-01_CB_DO-TRAN-03
DO-TRAN-03-LV	0.1 cal/cm²	457mm (18in)	94mm (4in)	480VAC	May 11,2026	1.1m (42in)	305mm (12in)	0	Cable Bus	DO-0003	DO-EMG-01_CB_DO-TRAN-03
DO-TRAN-04-HV	0.15 cal/cm²	457mm (18in)	126mm (5in)	480VAC	May 11,2026	1.1m (42in)	305mm (12in)	0	Cable Bus	DO-0003	DO-EMG-03_CB_DO-TRAN-04
DO-TRAN-04-LV	3.27 cal/cm²	457mm (18in)	856mm (34in)	240VAC	May 11,2026	1.1m (42in)	305mm (12in)	0	Cable Bus	DO-0003	DO-EMG-03_CB_DO-TRAN-04
DO-TRAN-05-HV	0.58 cal/cm²	457mm (18in)	287mm (11in)	480VAC	May 11,2026	1.1m (42in)	305mm (12in)	0	Cable Bus	TP-1002	DO-DSW-09_No fuse
DO-TRAN-05-LV	1.46 cal/cm²	457mm (18in)	515mm (20in)	208VAC	May 11,2026	1.1m (42in)	305mm (12in)	0	Cable Bus	TP-1002	DO-DSW-09_No fuse

One-Line Diagram - OLV1 | Edit Mode



EX.FAN NORMALLY MATCHED TO 480v/120v SUPPLY FAN BUT NOT FOUND ON PANEL SCHEDULES AND NOT ANSWERED ON RFI C28.

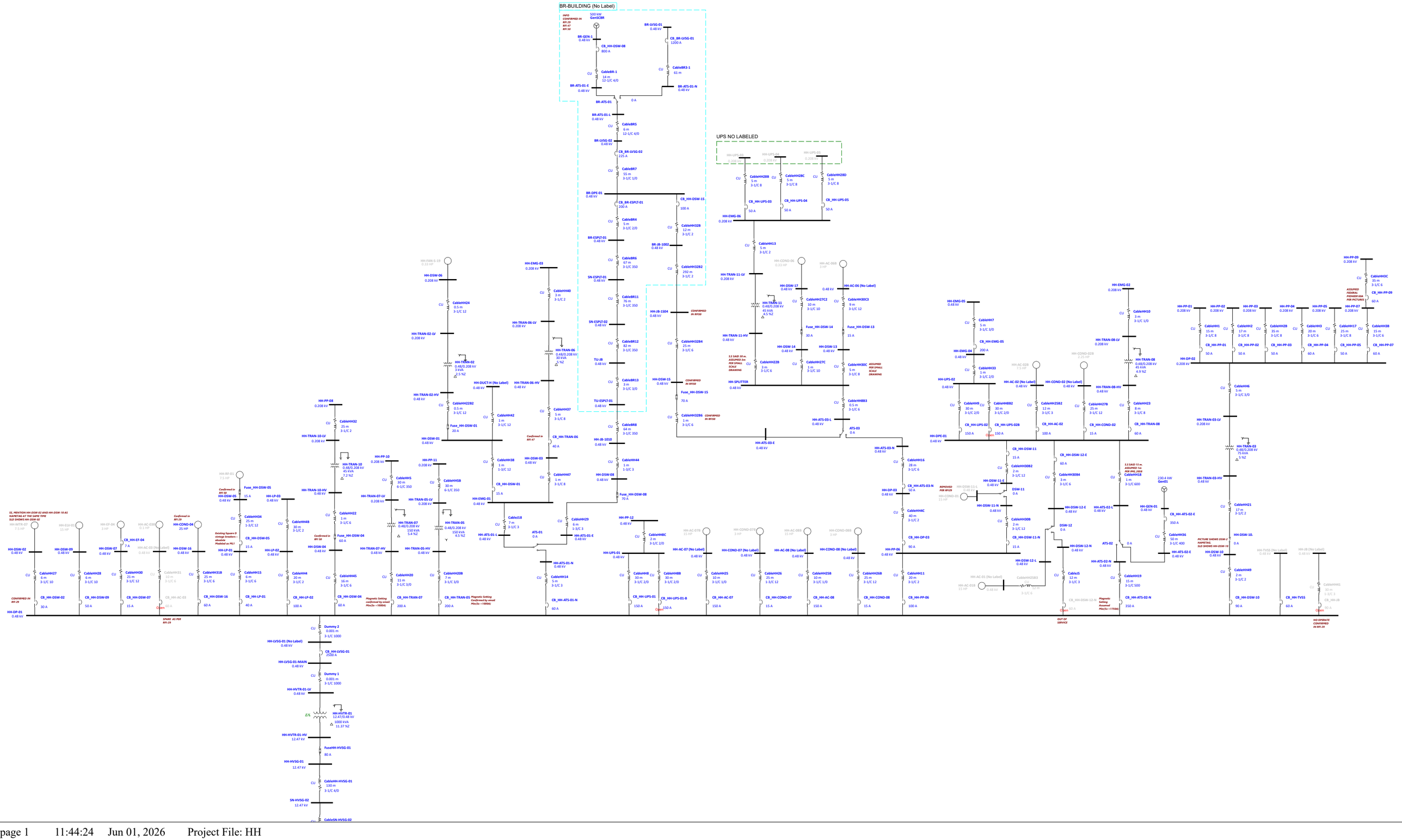
STATUS TBA - MAR2025

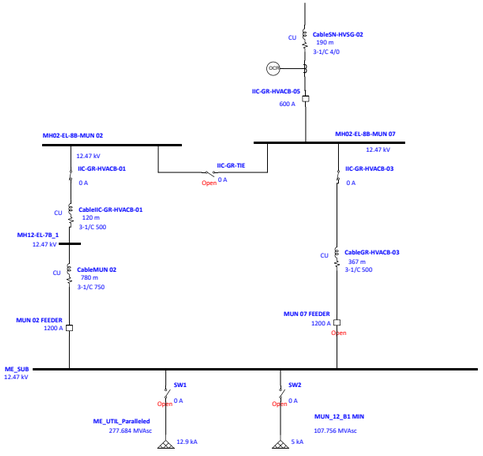
Arc Flash Labels for Panels

VDP_TAG	VDP_INCIDENT	VDP_WORKING	VDP_ARCFLASH	VDP_NOMINAL	VDP_PERFORMED	VDP_Limited	VDP_Restricted	VDP_Gloves	VDP_Equipment	VDP_Location	VDP_Fed From
HA-ATS-01-E	0.19 cal/cm²	610mm (24in)	190mm (7in)	600VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Switchboard	HA-102	HA-DPE-02_CB_HA-ATS-01-E
HA-ATS-01-N	0.58 cal/cm²	610mm (24in)	385mm (15in)	600VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Switchboard	HA-102	HA-DP-01_CB_HA-ATS-01-N
HA-ATS-02-E	0.18 cal/cm²	610mm (24in)	188mm (7in)	600VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Switchboard	HA-102	HA-DPE-02_CB_HA-ATS-02
HA-ATS-02-N	0.58 cal/cm²	610mm (24in)	385mm (15in)	600VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Switchboard	HA-102	HA-DP-01_CB_HA-ATS-02-N
HA-DP-01	1.91 cal/cm²	610mm (24in)	815mm (32in)	600VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Switchboard	HA-102	HA-LVSG-01_CB_HA-DP-01
HA-DP-02	13.95 cal/cm²	610mm (24in)	2829mm (111in)	208VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Switchboard	HA-100	HA-DP-01_CB_HA-TRAN-02
HA-DP-03	13.95 cal/cm²	610mm (24in)	2829mm (111in)	208VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Switchboard	HA-100	HA-DP-01_CB_HA-TRAN-01
HA-DPE-01	0.56 cal/cm²	610mm (24in)	379mm (15in)	600VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Switchboard	HA-102	HA-ATS-01
HA-DPE-02	0.58 cal/cm²	610mm (24in)	386mm (15in)	600VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Switchboard	HA-102	HA-LVSG-02_CB_HA-DPE-02
HA-DPE-03	0.57 cal/cm²	610mm (24in)	382mm (15in)	600VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Switchboard	HA-102	HA-ATS-02
HA-DPE-04	0.37 cal/cm²	610mm (24in)	292mm (11in)	208VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Switchboard	HA-117	HA-DPE-03_CB_HA-TRAN-04
HA-DSW-02	0.12 cal/cm²	457mm (18in)	108mm (4in)	600VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Panelboard		HA-DPE-03_CB_HA-DSW-02
HA-DSW-03	0.22 cal/cm²	457mm (18in)	159mm (6in)	600VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Panelboard		HA-DPE-03_CB_HA-DSW-03
HA-DSW-04	0.14 cal/cm²	457mm (18in)	120mm (5in)	600VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Panelboard		HA-DPE-03_CB_HA-DSW-04
HA-DSW-05	0.19 cal/cm²	457mm (18in)	143mm (6in)	600VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Panelboard		HA-DPE-03_CB_HA-DSW-05
HA-DSW-06	0.13 cal/cm²	457mm (18in)	114mm (4in)	600VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Panelboard		HA-DPE-03_CB_HA-DSW-06
HA-DSW-07	86.69 cal/cm²	457mm (18in)	6654mm (262in)	240VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	HA-100	DO-EMG-03_CB_HA-TRAN-07
HA-DSW-08	0.05 cal/cm²	457mm (18in)	64mm (3in)	600VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	HA-110	HA-DP-01_CB_HA-DSW-08
HA-DSW-10	0.26 cal/cm²	457mm (18in)	176mm (7in)	600VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	HA-110	HA-DP-01_CB_HA-DSW-10
HA-DSW-11	0.49 cal/cm²	457mm (18in)	261mm (10in)	600VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	HA-100	HA-DP-01_CB_HA-DSW-11
HA-DSW-12	0.48 cal/cm²	457mm (18in)	258mm (10in)	600VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	HA-100	HA-DP-01_CB_HA-DSW-12
HA-DSW-13	0.36 cal/cm²	457mm (18in)	216mm (9in)	600VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	HA-100	HA-DP-01_CB_HA-DSW-13
HA-DSW-14	0.35 cal/cm²	457mm (18in)	212mm (8in)	600VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	HA-100	HA-DP-01_CB_HA-DSW-14
HA-DSW-17	0.15 cal/cm²	457mm (18in)	124mm (5in)	600VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Panelboard		HA-DP-01_CB_HA-DSW-17
HA-DSW-29	0.09 cal/cm²	457mm (18in)	92mm (4in)	600VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	HA-129	HA-DPE-03_CB_HA-DSW-29
HA-DSW-35	0.11 cal/cm²	457mm (18in)	104mm (4in)	600VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Panelboard		HA-DPE-03_CB_HA-DSW-35
HA-DSW-36	0.11 cal/cm²	457mm (18in)	101mm (4in)	208VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	HA-110	HA-EMG-01_CB_HA-DSW-36
HA-DSW-37	0.01 cal/cm²	457mm (18in)	25mm (1in)	208VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	HA-110	HA-EMG-01_CB_HA-DSW-37
HA-DSW-38	0.09 cal/cm²	457mm (18in)	90mm (4in)	208VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	HA-125	HA-DPE-04_CB_HA-DSW-38
HA-DSW-39	0.32 cal/cm²	457mm (18in)	198mm (8in)	208VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	HA-125	HA-EMG-01_CB_HA-DSW-39
HA-DSW-AHU-03	0.21 cal/cm²	457mm (18in)	152mm (6in)	600VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Panelboard		HA-DP-01_CB_HA-DSW-AHU-03
HA-DSW-EF-01	0.07 cal/cm²	457mm (18in)	76mm (3in)	600VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	HA-ROOF	HA-DPE-03_CB_HA-DSW-EF-01
HA-DSW-EF-06	0.06 cal/cm²	457mm (18in)	69mm (3in)	600VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	HA-ROOF	HA-DPE-03_CB_HA-DSW-EF-06
HA-DSW-HRU-1	0.2 cal/cm²	457mm (18in)	148mm (6in)	600VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Panelboard		HA-DP-01_CB_HA-DSW-HRU-1
HA-ELEV.CAB.LGHT	0.01 cal/cm²	457mm (18in)	25mm (1in)	208VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	HA-110	HA-DSW-37_Fuse_HA-DSW-37
HA-EMG-01	0.15 cal/cm²	457mm (18in)	124mm (5in)	208VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	HA-102	HA-DPE-03_CB_HA-TRAN-05
HA-EMG-02	9.3 cal/cm²	457mm (18in)	1645mm (65in)	208VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	HA-102	HA-DPE-01_CB_HA-TRAN-06
HA-EMG-03	0.16 cal/cm²	457mm (18in)	131mm (5in)	208VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	HA-117	HA-DPE-04_CB_HA-EMG-03
HA-EMG-04	0.16 cal/cm²	457mm (18in)	129mm (5in)	208VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	HA-117	HA-DPE-04_CB_HA-EMG-04
HA-EMG-05	0.37 cal/cm²	457mm (18in)	221mm (9in)	208VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	HA-117	HA-DPE-03_CB_HA-TRAN-03
HA-EMG-06	0.33 cal/cm²	457mm (18in)	205mm (8in)	208VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	HA-111	HA-DPE-04_CB_HA-EMG-06
HA-GEN-01	183.51 cal/cm²	457mm (18in)	10639mm (419in)	600VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	HA-GR	
HA-GEN-PNL	4.59 cal/cm²	457mm (18in)	1058mm (42in)	208VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	HA-GEN	HA-DP-03_CB_HA-GEN-PNL
HA-HTP-01	0.58 cal/cm²	457mm (18in)	291mm (11in)	600VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	HA-102	HA-DP-01_CB_HA-HTP-01
HA-HTP-02	0.49 cal/cm²	457mm (18in)	260mm (10in)	600VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	HA-100	HA-DP-01_CB_HA-HTP-02
HA-HTP-03	0.28 cal/cm²	457mm (18in)	182mm (7in)	600VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	HA-516	HA-DP-01_CB_HA-HTP-03
HA-HTP-04	0.19 cal/cm²	457mm (18in)	145mm (6in)	600VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	HA-523	HA-DP-01_CB_HA-HTP-04
HA-HTP-05	0.32 cal/cm²	457mm (18in)	198mm (8in)	600VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	HA-414	HA-DP-01_CB_HA-HTP-05
HA-HTP-06	0.19 cal/cm²	457mm (18in)	145mm (6in)	600VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	HA-424	HA-DP-01_CB_HA-HTP-06
HA-HTP-07	0.51 cal/cm²	457mm (18in)	268mm (11in)	600VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	HA-310	HA-DP-01_CB_HA-HTP-07
HA-HVTR-01_HV	1.12 cal/cm²	914mm (36in)	872mm (34in)	12470VAC	Monday, November 17, 2025	1.5m (60in)	658mm (26in)	2	Cable Bus	PADMOUNT	CX-HVACB-06_CX-HVACB-06
HA-HVTR-01-LV	17.69 cal/cm²	457mm (18in)	2461mm (97in)	600VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	PADMOUNT	HA-HVTR-01_HV_HA_BAYONET
HA-LVSG-01	19.13 cal/cm²	610mm (24in)	3447mm (136in)	600VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Switchgear	HA-102	HA-HVTR-01_HV_HA_BAYONET
HA-LVSG-02-MAIN	37.65 cal/cm²	610mm (24in)	5264mm (207in)	600VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Switchgear	HA-102	HA-GEN-01_CB_HA_LVSG-02
HA-PP-01	0.16 cal/cm²	457mm (18in)	131mm (5in)	208VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	HA-102	HA-DP-03_CB_HA-PP-01
HA-PP-02	28.81 cal/cm²	457mm (18in)	3340mm (131in)	208VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	HA-117	HA-DP-03_CB_HA-PP-02
HA-PP-03	0.14 cal/cm²	457mm (18in)	120mm (5in)	208VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	HA-100	HA-DP-03_CB_HA-PP-03
HA-PP-04	15.9 cal/cm²	457mm (18in)	2302mm (91in)	208VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	HA-516	HA-DP-02_CB_HA-PP-04
HA-PP-05	15.9 cal/cm²	457mm (18in)	2302mm (91in)	208VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	HA-516	HA-DP-02_CB_HA-PP-05
HA-PP-06	20.19 cal/cm²	457mm (18in)	2673mm (105in)	208VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	HA-523	HA-DP-02_CB_HA-PP-06
HA-PP-07	14.52 cal/cm²	457mm (18in)	2175mm (86in)	208VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	HA-414	HA-DP-02_CB_HA-PP-07

HA-PP-08	14.52 cal/cm²	457mm (18in)	2175mm (86in)	208VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	HA-414	HA-DP-02_CB_HA-PP-08
HA-PP-09	20.19 cal/cm²	457mm (18in)	2673mm (105in)	208VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	HA-424	HA-DP-02_CB_HA-PP-09
HA-PP-10	13.03 cal/cm²	457mm (18in)	2033mm (80in)	208VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	HA-310	HA-DP-02_CB_HA-PP-10
HA-PP-11	0.34 cal/cm²	457mm (18in)	208mm (8in)	208VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	HA-2C03	HA-DP-03_CB_HA-PP-11
HA-TRAN-01 HV	0.69 cal/cm²	457mm (18in)	322mm (13in)	600VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	HA-100	HA-DP-01_CB_HA-TRAN-01
HA-TRAN-01 LV	0.91 cal/cm²	457mm (18in)	385mm (15in)	208VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	HA-100	HA-DP-01_CB_HA-TRAN-01
HA-TRAN-02-HV	0.69 cal/cm²	457mm (18in)	322mm (13in)	600VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	HA-100	HA-DP-01_CB_HA-TRAN-02
HA-TRAN-02-LV	0.91 cal/cm²	457mm (18in)	385mm (15in)	208VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	HA-100	HA-DP-01_CB_HA-TRAN-02
HA-TRAN-03-HV	0.4 cal/cm²	457mm (18in)	229mm (9in)	600VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	HA-117	HA-DPE-03_CB_HA-TRAN-03
HA-TRAN-03-LV	0.36 cal/cm²	457mm (18in)	217mm (9in)	208VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	HA-117	HA-DPE-03_CB_HA-TRAN-03
HA-TRAN-04-HV	0.47 cal/cm²	457mm (18in)	253mm (10in)	600VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	HA-117	HA-DPE-03_CB_HA-TRAN-04
HA-TRAN-04-LV	0.55 cal/cm²	457mm (18in)	282mm (11in)	208VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	HA-117	HA-DPE-03_CB_HA-TRAN-04
HA-TRAN-05-HV	0.43 cal/cm²	457mm (18in)	241mm (9in)	600VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	HA-100	HA-DPE-03_CB_HA-TRAN-05
HA-TRAN-05-LV	0.15 cal/cm²	457mm (18in)	123mm (5in)	208VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	HA-100	HA-DPE-03_CB_HA-TRAN-05
HA-TRAN-06 HV	0.36 cal/cm²	457mm (18in)	214mm (8in)	600VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	HA-100	HA-DPE-01_CB_HA-TRAN-06
HA-TRAN-06 LV	6.24 cal/cm²	457mm (18in)	1281mm (50in)	208VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	HA-100	HA-DPE-01_CB_HA-TRAN-06
HA-TRAN-07-HV	0.55 cal/cm²	457mm (18in)	280mm (11in)	480VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	HA-100	DO-EMG-03_CB_HA-TRAN-07
HA-TRAN-07-LV	26.12 cal/cm²	457mm (18in)	3141mm (124in)	240VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	HA-100	DO-EMG-03_CB_HA-TRAN-07
SERV.ELEV.CAB.LGHT	0.32 cal/cm²	457mm (18in)	198mm (8in)	208VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	HA-125	HA-DSW-39_Fuse_HA-DSW-39

One-Line Diagram - HH | Edit Mode


BR-BUILDING (No Label)
INFO CONFIRMED IN RFI 29 RFI 47 RFI 59
500 kW GenSCBR
BR-GEN-1 0.48 kV
CB_HH-DSW-08 800 A
CableBR-1 14 m 12-1/C 4/0
BR-ATS-01-E 0.48 kV
BR-LVSG-01 0.48 kV
CB_BR-LVSG-01 1200 A
CableBR3-1 61 m
BR-ATS-01-N 0.48 kV
BR-ATS-01 0 A
BR-ATS-01-L 0.48 kV
CableBR5 6 m 12-1/C 4/0
BR-LVSG-02 0.48 kV
CB_BR-LVSG-02 225 A
CableBR7 55 m 3-1/C 1/0
BR-DPE-01 0.48 kV
CB_BR-ESPLT-01 200 A
CableBR4 5 m 3-1/C 2/0
BR-ESPLT-01 0.48 kV
CableBR6 67 m 3-1/C 350
SN-ESPLT-01 0.48 kV
CableBR11 76 m 3-1/C 350
SN-ESPLT-02 0.48 kV
CableBR12 82 m 3-1/C 350
TU-JB 0.48 kV
CableBR13 3 m 3-1/C 3/0
TU-ESPLT-01 0.48 kV
CableBR8 64 m 3-1/C 350
HH-JB-1010 0.48 kV
CableHH44 1 m 1-1/C 3
HH-DSW-08 0.48 kV
Fuse_HH-DSW-08 70 A
CB_HH-DSW-15 100 A
CableHH32B 12 m 3-1/C 2
BR-JB-1002 0.48 kV
CableHH32B2 292 m 3-1/C 2
HH-JB-1504 0.48 kV
CONFIRMED IN RFI50
CableHH32B4 25 m 3-1/C 6
HH-DSW-15 0.48 kV
CONFIRMED IN RFI50
Fuse_HH-DSW-15 70 A
CableHH32B6 1 m 1-1/C 6
HH-ATS-03-E 0.48 kV
UPS NO LABELED
HH-UPS-03 0.208 kV
HH-UPS-04 0.208 kV
HH-UPS-05 0.208 kV
CableHH28B 5 m 3-1/C 8
CableHH28C 5 m 3-1/C 8
CableHH28D 5 m 3-1/C 8
CB_HH-UPS-03 50 A
CB_HH-UPS-04 50 A
CB_HH-UPS-05 50 A
HH-EMG-06 0.208 kV
CableHH13 5 m 3-1/C 2
HH-TRAN-11-LV 0.208 kV
HH-TRAN-11 0.48/0.208 kV 45 kVA 4.5 %Z
HH-DSW-17 0.48 kV
HH-COND-06 0.33 HP
HH-AC-06B 3 HP
HH-AC-06 (No Label) 0.48 kV
CableHH27C2 10 m 3-1/C 10
CableHH30C3 9 m 3-1/C 12
Fuse_HH-DSW-14 30 A
Fuse_HH-DSW-13 15 A
HH-TRAN-11-HV 0.48 kV
HH-DSW-14 0.48 kV
HH-DSW-13 0.48 kV
S.S SAID 20 m. ASSUMED 3m PER SMALL SCALE DRAWING
CableHH22B 3 m 3-1/C 6
CableHH27C 1 m 3-1/C 10
CableHH30C 5 m 3-1/C 8
ASSUMED PER SMALL SCALE DRAWING
HH-SPLITTER 0.48 kV
CableHH8B3 0.5 m 3-1/C 6
HH-ATS-03-L 0.48 kV
ATS-03 0 A
HH-ATS-03-N 0.48 kV
CableHH16 28 m 3-1/C 6
CB_HH-ATS-03-N 50 A
CableHH4C 40 m 3-1/C 2
HH-DP-03 0.48 kV
CB_HH-DP-03 90 A
HH-PP-06 0.48 kV
CableHH11 20 m 3-1/C 2
CB_HH-PP-06 100 A
HH-FAN-S-19 0.33 HP
HH-DSW-06 0.208 kV
CableHH24 0.5 m 3-1/C 12
HH-TRAN-02-LV 0.208 kV
HH-TRAN-02 0.48/0.208 kV 3 kVA 2.5 %Z
HH-TRAN-02-HV 0.48 kV
CableHH22B2 0.5 m 3-1/C 12
HH-DUCT-H (No Label) 0.48 kV
Fuse_HH-DSW-01 20 A
HH-DSW-01 0.48 kV
CableHH42 1 m 3-1/C 12
CB_HH-DSW-01 15 A
HH-EMG-03 0.208 kV
CableHH40 3 m 3-1/C 2
HH-TRAN-06-LV 0.208 kV
HH-TRAN-06 0.48/0.208 kV 30 kVA 5 %Z
HH-TRAN-06-HV 0.48 kV
CableHH37 5 m 3-1/C 8
Confirmed in RFI 47
CB_HH-TRAN-06 40 A
HH-DSW-03 0.48 kV
CableHH47 1 m 3-1/C 8
CableHH38 1 m 1-1/C 12
HH-EMG-01 0.48 kV
Cable118 7 m 3-1/C 3
HH-ATS-01-L 0.48 kV
ATS-01 0 A
CableHH29 6 m 1-3/C 3
HH-ATS-01-E 0.48 kV
HH-ATS-01-N 0.48 kV
CableHH14 5 m 3-1/C 3
CB_HH-ATS-01-N 60 A
HH-PP-08 0.208 kV
CableHH32 25 m 3-1/C 2
HH-TRAN-10-LV 0.208 kV
HH-TRAN-10 0.48/0.208 kV 45 kVA 7.2 %Z
HH-TRAN-10-HV 0.48 kV
CableHH22 1 m 3-1/C 6
Confirmed in RFI 50
Fuse_HH-DSW-04 60 A
HH-DSW-04 0.48 kV
CableHH45 16 m 3-1/C 6
CB_HH-DSW-04 60 A
HH-PP-10 0.208 kV
CableHH5 30 m 6-1/C 350
HH-TRAN-07-LV 0.208 kV
HH-TRAN-07 0.48/0.208 kV 150 kVA 5.4 %Z
HH-TRAN-07-HV 0.48 kV
CableHH20 11 m 3-1/C 3/0
CB_HH-TRAN-07 200 A
Magnetic Setting confirmed by email Min15x =1000A)
HH-PP-11 0.208 kV
CableHH5B 30 m 6-1/C 350
HH-TRAN-05-LV 0.208 kV
HH-TRAN-05 0.48/0.208 kV 150 kVA 4.5 %Z
HH-TRAN-05-HV 0.48 kV
CableHH20B 7 m 3-1/C 3/0
CB_HH-TRAN-05 200 A
Magnetic Setting Confirmed by email Min15x =1000A)
HH-RF-01 7.5 HP
Confirmed in RFI 50
HH-DSW-05 0.48 kV
Fuse_HH-DSW-05 15 A
CableHH34 25 m 3-1/C 12
CB_HH-DSW-05 15 A
HH-LP-03 0.48 kV
CableHH4B 30 m 3-1/C 2
HH-LP-02 0.48 kV
CableHH4 20 m 3-1/C 2
CB_HH-LP-02 100 A
HH-LP-01 0.48 kV
CableHH15 6 m 3-1/C 6
CB_HH-LP-01 40 A
HH-PP-12 0.48 kV
CableHH8C 2 m 3-1/C 2/0
HH-UPS-01 0.48 kV
CableHH8 30 m 3-1/C 2/0
CB_HH-UPS-01 150 A
CableHH8B 30 m 3-1/C 2/0
CB_HH-UPS-01-B 150 A
HH-AC-07 (No Label) 0.48 kV
CableHH25 10 m 3-1/C 1/0
CB_HH-AC-07 150 A
HH-COND-07 (No Label) 0.48 kV
CableHH26 25 m 1-1/C 12
CB_HH-COND-07 15 A
HH-AC-08 (No Label) 0.48 kV
CableHH25B 10 m 3-1/C 1/0
CB_HH-AC-08 150 A
HH-COND-08 (No Label) 0.48 kV
CableHH26B 25 m 3-1/C 12
CB_HH-COND-08 15 A
HH-EMG-05 0.48 kV
CableHH7 5 m 3-1/C 3/0
CB_HH-EMG-05 200 A
HH-EMG-04 0.48 kV
CableHH33 1 m 3-1/C 2/0
HH-UPS-02 0.48 kV
CableHH9 30 m 3-1/C 2/0
CB_HH-UPS-02 150 A
HH-AC-02B 7.5 HP
HH-AC-02 (No Label) 0.48 kV
CableHH8B2 30 m 3-1/C 2/0
CB_HH-UPS-02B 150 A
HH-COND-02B 2.25 HP
HH-COND-02 (No Label) 0.48 kV
CableHH25B2 12 m 3-1/C 3
CB_HH-AC-02 100 A
HH-TRAN-08-HV 0.48 kV
CableHH27B 25 m 3-1/C 12
CB_HH-COND-02 15 A
HH-EMG-02 0.208 kV
CableHH10 3 m 3-1/C 1/0
HH-TRAN-08-LV 0.208 kV
HH-TRAN-08 0.48/0.208 kV 45 kVA 4.9 %Z
CableHH23 8 m 3-1/C 8
CB_HH-TRAN-08 60 A
HH-DPE-01 0.48 kV
CB_HH-DSW-11 15 A
CableHH30B2 2 m 3-1/C 12
HH-DSW-11-E 0.48 kV
DSW-11 0 A
HH-DSW-11-N 0.48 kV
CableHH30B 2 m 3-1/C 12
CB_HH-DSW-11-N 15 A
HH-DSW-12-L 0.48 kV
CB_HH-DSW-12-E 60 A
CableHH30B4 3 m 3-1/C 6
HH-DSW-12-E 0.48 kV
DSW-12 0 A
HH-DSW-12-N 0.48 kV
CableHH5 12 m 3-1/C 3
CB_HH-DSW-12-N 60 A
HH-ATS-02-L 0.48 kV
ATS-02 0 A
HH-ATS-02-N 0.48 kV
CableHH19 15 m 3-1/C 500
CB_HH-ATS-02-N 350 A
HH-PP-09 0.208 kV
CableHH3C 35 m 3-1/C 6
CB_HH-PP-09 60 A
ASSUMED FEDERAL PIONEER 604 PER PICTURE
HH-PP-01 0.208 kV
CableHH1 15 m 3-1/C 8
CB_HH-PP-01 50 A
HH-PP-02 0.208 kV
CableHH2 17 m 3-1/C 8
CB_HH-PP-02 50 A
HH-PP-03 0.208 kV
CableHH2B 35 m 3-1/C 8
CB_HH-PP-03 50 A
HH-PP-04 0.208 kV
CableHH3 20 m 3-1/C 6
CB_HH-PP-04 60 A
HH-PP-05 0.208 kV
CableHH17 25 m 3-1/C 8
CB_HH-PP-05 50 A
HH-PP-07 0.208 kV
CableHH3B 15 m 3-1/C 6
CB_HH-PP-07 60 A
HH-DP-02 0.208 kV
CableHH6 5 m 3-1/C 3/0
HH-TRAN-03-LV 0.208 kV
HH-TRAN-03 0.48/0.208 kV 75 kVA 5 %Z
HH-TRAN-03-HV 0.48 kV
CableHH21 17 m 3-1/C 2
HH-DSW-10 0.48 kV
CableHH49 2 m 3-1/C 2
CB_HH-DSW-10 90 A
HH-TVSS (No Label) 0.48 kV
CableHH41 30 m 3-1/C 3
CB_HH-JB 60 A
HH-JB (No Label) 0.48 kV
CB_HH-TVSS 60 A
230.4 kW Gen01
HH-GEN-01 0.48 kV
CB_HH-ATS-02-E 350 A
CableHH36 50 m 3-1/C 400
HH-ATS-02-E 0.48 kV
HH-AC-01 (No Label) 15 HP
HH-AC-01B 15 HP 0.48 kV
CableHH28B2 3 m 3-1/C 6
HH-DSW-11-L 0.48 kV
HH-COND-01 15 HP
REMOVED PER RFI29
HH-ATS-03-N 0.48 kV
HH-ATS-03-L 0.48 kV
HH-ATS-03-E 0.48 kV
HH-ATS-01-L 0.48 kV
HH-ATS-01-E 0.48 kV
HH-ATS-01-N 0.48 kV
HH-ATS-01 0.48 kV
HH-ATS-02-L 0.48 kV
HH-ATS-02-N 0.48 kV
HH-ATS-02-E 0.48 kV
HH-ATS-02 0.48 kV
HH-ATS-03 0.48 kV
HH-ATS-01


CU
CableSN-HVSG-02
190 m
3-1/C 4/0
IIC-GR-HVACB-05
600 A
MH02-EL-BB-MUN 02
12.47 kV
MH02-EL-BB-MUN 07
12.47 kV
IIC-GR-HVACB-01
0 A
IIC-GR-TIE
Open 0 A
IIC-GR-HVACB-03
0 A
CU
CableIIC-GR-HVACB-01
120 m
3-1/C 500
MH12-EL-7B_1
12.47 kV
CU
CableGR-HVACB-03
367 m
3-1/C 500
CU
CableMUN 02
780 m
3-1/C 750
MUN 02 FEEDER
1200 A
MUN 07 FEEDER
1200 A
Open
ME_SUB
12.47 kV
SW1
Open 0 A
SW2
Open 0 A
ME_UTIL_Paralleled
277.684 MVAsc
12.9 kA
MUN_12_B1 MIN
107.756 MVAsc
5 kA

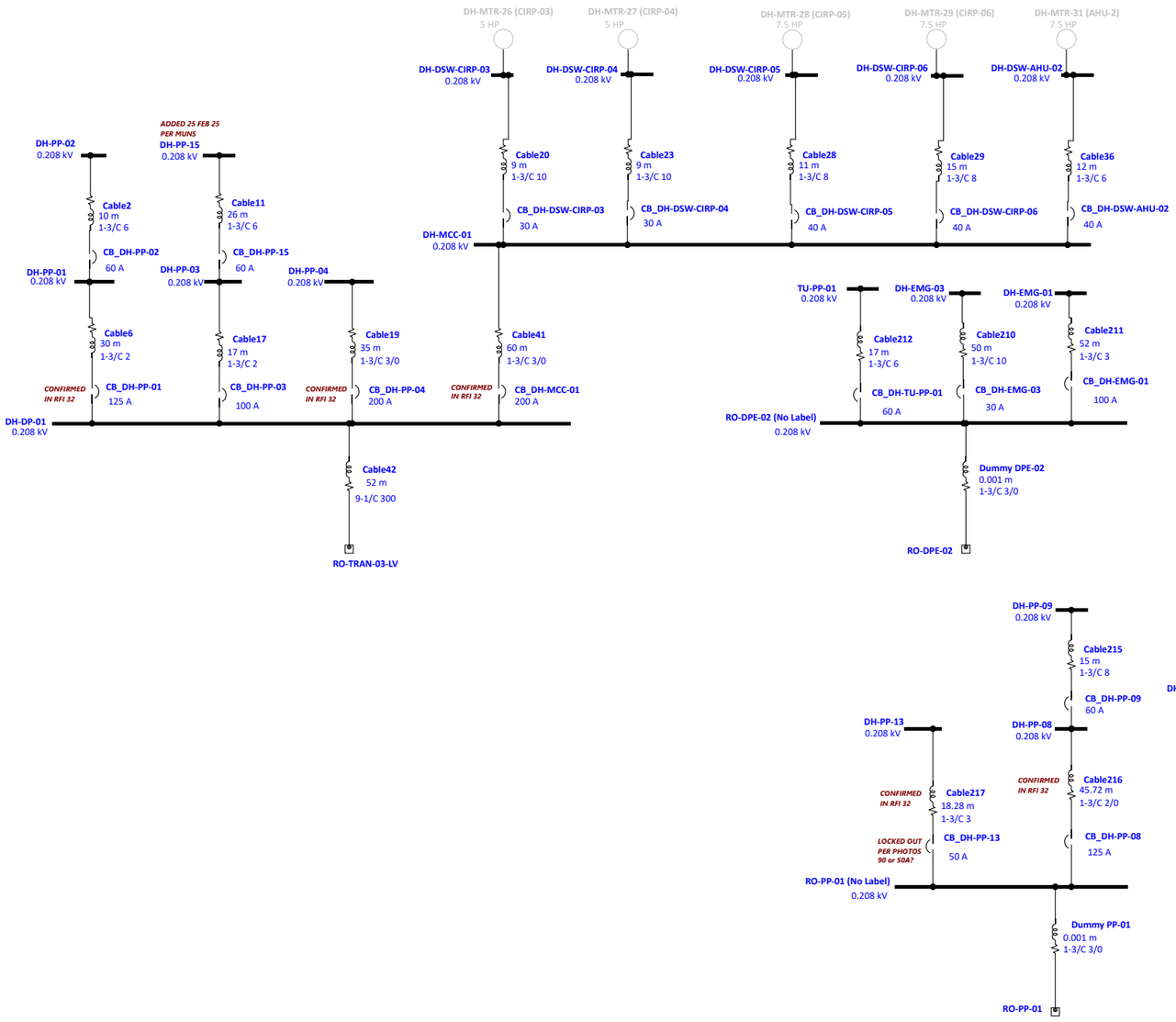
Arc Flash Labels for Panels

Updates are highlighted in red font (MUN006-EL-RP-001-00 Rev D0)

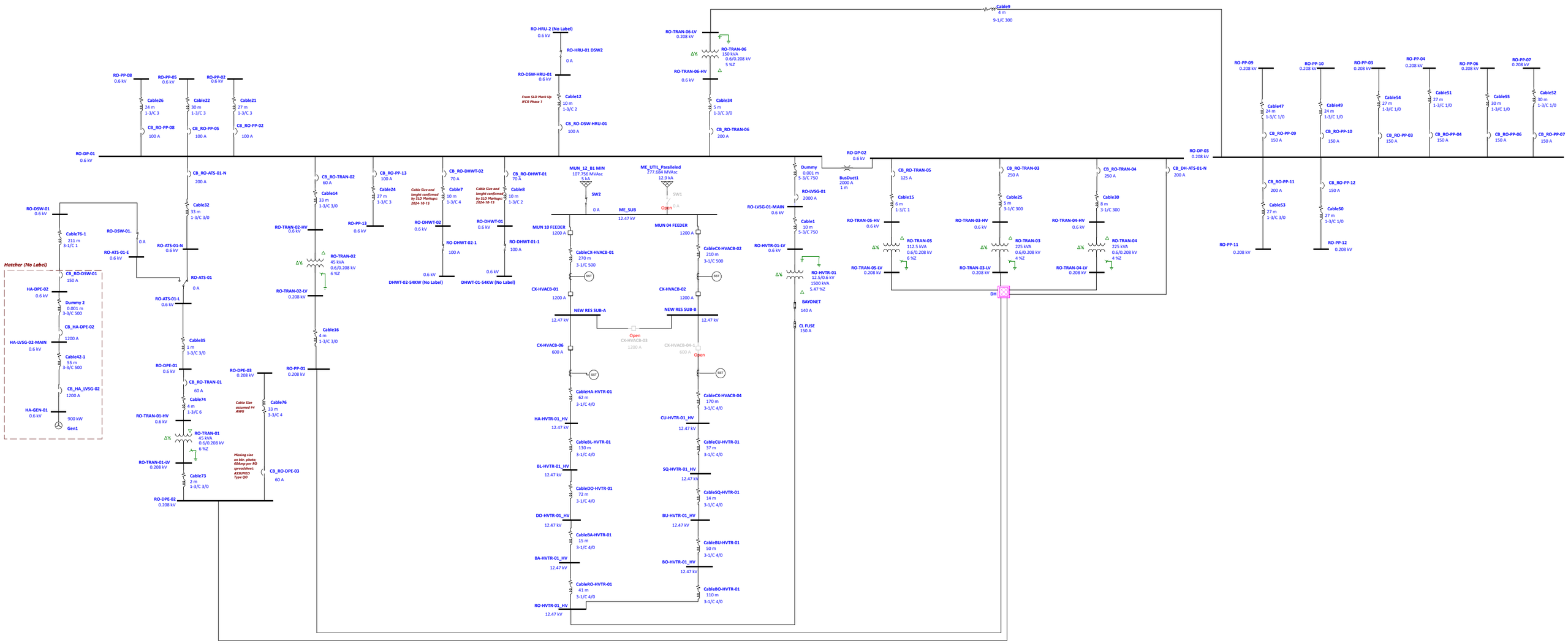
VDP_TAG	VDP_INCIDENT	VDP_WORKING	VDP_ARCFLASH	VDP_NOMINAL	VDP_PERFORMED	VDP_Limited	VDP_Restricted	VDP_Gloves	VDP_Equipment	VDP_Location	VDP_Fed From
HH-ATS-01-E	0.02 cal/cm²	610mm (24in)	46mm (2in)	480VAC	Thursday, March 5, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	HH-1010	HH-DSW-08_Fuse_HH-DSW-08
HH-ATS-01-N	0.18 cal/cm²	610mm (24in)	185mm (7in)	480VAC	Thursday, March 5, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	HH-1010	HH-DP-01_CB_HH-ATS-01-N
HH-ATS-02-E	9.3 cal/cm²	610mm (24in)	2194mm (86in)	480VAC	Thursday, March 5, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	HH-1019	HH-GEN-01_CB_HH-ATS-02-E
HH-ATS-02-N	0.17 cal/cm²	610mm (24in)	177mm (7in)	480VAC	Thursday, March 5, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	HH-1019	HH-DP-01_CB_HH-ATS-02-N
HH-ATS-03-E	3.94 cal/cm²	610mm (24in)	1280mm (50in)	480VAC	Thursday, March 5, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	HH-3059C	HH-DSW-15_Fuse_HH-DSW-15
HH-ATS-03-N	0.05 cal/cm²	610mm (24in)	85mm (3in)	480VAC	Thursday, March 5, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	HH-3059C	HH-DP-03_CB_HH-ATS-03-N
HH-DP-01	0.56 cal/cm²	610mm (24in)	380mm (15in)	480VAC	Tuesday, May 19, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	HH-1010	HH-LVSG-01_CB_HH-LVSG-01
HH-DP-02	1.30 cal/cm²	610mm (24in)	640mm (25.2in)	208VAC	Tuesday, May 19, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	HH-1019	HH-DSW-10_No Fuse
HH-DP-03	0.08 cal/cm²	610mm (24in)	110mm (4in)	480VAC	Thursday, March 5, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	HH-3052	HH-PP-06_CB_HH-DP-03
HH-DPE-01	9.3 cal/cm²	610mm (24in)	2193mm (86in)	480VAC	Thursday, March 5, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	HH-1019	HH-ATS-02
HH-DSW-01	0.21 cal/cm²	457mm (18in)	153mm (6in)	480VAC	Thursday, March 5, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	HH-1010	HH-EMG-01_CB_HH-DSW-01
HH-DSW-02	0.19 cal/cm²	457mm (18in)	146mm (6in)	480VAC	Thursday, March 5, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	HH-1010	HH-DP-01_CB_HH-DSW-02
HH-DSW-03	0.22 cal/cm²	457mm (18in)	159mm (6in)	480VAC	Thursday, March 5, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	HH-1010	HH-ATS-01
HH-DSW-04	0.17 cal/cm²	457mm (18in)	135mm (5in)	480VAC	Thursday, March 5, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	HH-1018	HH-DP-01_CB_HH-DSW-04
HH-DSW-05	0.05 cal/cm²	457mm (18in)	60mm (2.4in)	480VAC	Tuesday, May 19, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	HH-1010	HH-LP-01_CB_HH-DSW-05
HH-DSW-06	5.09 cal/cm²	457mm (18in)	1129mm (44in)	208VAC	Thursday, March 5, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	HH-1010	HH-DSW-01_Fuse_HH-DSW-01
HH-DSW-07	0.05 cal/cm²	457mm (18in)	64mm (3in)	480VAC	Thursday, March 5, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	HH-1009	HH-DP-01_CB_HH-DSW-07
HH-DSW-08	0.1 cal/cm²	457mm (18in)	94mm (4in)	480VAC	Thursday, March 5, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	HH-1010	BR-DPE-01_CB_BR-ESPLT-01
HH-DSW-09	0.19 cal/cm²	457mm (18in)	146mm (6in)	480VAC	Thursday, March 5, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	HH-1009	HH-DP-01_CB_HH-DSW-09
HH-DSW-10	0.86 cal/cm²	457mm (18in)	370mm (14.6in)	480VAC	Tuesday, May 19, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	HH-1010	HH-DP-01_CB_HH-DSW-10
HH-DSW-11-E	0.18 cal/cm²	457mm (18in)	141mm (6in)	480VAC	Thursday, March 5, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	HH-1019	HH-DPE-01_CB_HH-DSW-11
HH-DSW-11-N	0.17 cal/cm²	457mm (18in)	133mm (5in)	480VAC	Thursday, March 5, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	HH-1019	HH-PP-06_CB_HH-DSW-11-N
HH-DSW-12-E	0.2 cal/cm2	457mm (18in)	148mm (6in)	480VAC	Thursday, March 5, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	HH-1019	HH-DPE-01_CB_HH-DSW-12-E
HH-DSW-13	5.76 cal/cm2	457mm (18in)	1218mm (48in)	480VAC	Thursday, March 5, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	HH-3059C	HH-ATS-03
HH-DSW-14	5.65 cal/cm²	457mm (18in)	1203mm (47in)	480VAC	Thursday, March 5, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	HH-3059C	HH-ATS-03
HH-DSW-15	5.57 cal/cm²	457mm (18in)	1192mm (47in)	480VAC	Thursday, March 5, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	HH-3059C	BR-DPE-01_CB_HH-DSW-15
HH-DSW-16	0.14 cal/cm²	457mm (18in)	118mm (5in)	480VAC	Thursday, March 5, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	HH-ROOF	HH-DP-01_CB_HH-DSW-16
HH-DSW-17	0.05 cal/cm²	457mm (18in)	63mm (2in)	480VAC	Thursday, March 5, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	HH-ROOF	HH-DSW-14_Fuse_HH-DSW-14
HH-EMG-01	0.23 cal/cm²	457mm (18in)	164mm (6in)	480VAC	Thursday, March 5, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	HH-1010	HH-ATS-01
HH-EMG-02	15.39 cal/cm²	457mm (18in)	2256mm (89in)	208VAC	Thursday, March 5, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	HH-1019	HH-DPE-01_CB_HH-TRAN-08
HH-EMG-03	**27.01 cal/cm²**	457mm (18in)	3210mm (126.4in)	208VAC	Tuesday, May 19, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	HH-1010	HH-DSW-03_CB_HH-TRAN-06
HH-EMG-04	11.79 cal/cm²	457mm (18in)	1908mm (75in)	480VAC	Thursday, March 5, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	HH-2014	HH-DPE-01_CB_HH-UPS-02
HH-EMG-05	11.72 cal/cm²	457mm (18in)	1901mm (75in)	480VAC	Thursday, March 5, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	HH-2014	HH-EMG-04_CB_HH-EMG-05
HH-EMG-06	10.69 cal/cm²	457mm (18in)	1796mm (71in)	208VAC	Thursday, March 5, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	HH-3059C	HH-ATS-03
HH-GEN-01	38.69 cal/cm²	457mm (18in)	4016mm (158in)	480VAC	Thursday, March 5, 2026	1.1m (42in)	305mm (12in)	0	Panelboard		
HH-HVSG-01	2.04 cal/cm²	914mm (36in)	1283mm (51in)	12470VAC	Thursday, March 5, 2026	1.5m (60in)	658mm (26in)	2	Switchgear	HH-1010	SN-HVSG-02_IIC-GR-HVACB-05
HH-HVTR-01-HV	0.03 cal/cm²	914mm (36in)	80mm (3.1in)	12470VAC	Tuesday, May 19, 2026	1.5m (60in)	658mm (26in)	2	Cable Bus	HH-1010	HH-HVSG-01_FuseHH-HVSG-01
HH-HVTR-01-LV	19.62 cal/cm²	457mm (18in)	2600mm (102.3in)	480VAC	Tuesday, May 19, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	HH-1010	HH-HVSG-01_FuseHH-HVSG-01
HH-JB-1010	0.09 cal/cm²	457mm (18in)	93mm (4in)	480VAC	Thursday, March 5, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	HH-1010	BR-DPE-01_CB_BR-ESPLT-01
HH-JB-1S04	5.03 cal/cm²	457mm (18in)	1119mm (44in)	480VAC	Thursday, March 5, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	HH-1S04	BR-DPE-01_CB_HH-DSW-15
HH-LP-01	0.25 cal/cm²	457mm (18in)	169mm (7in)	480VAC	Thursday, March 5, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	HH-1010	HH-DP-01_CB_HH-LP-01
HH-LP-02	0.21 cal/cm²	457mm (18in)	153mm (6in)	480VAC	Thursday, March 5, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	HH-2020	HH-DP-01_CB_HH-LP-02
HH-LP-03	0.13 cal/cm²	457mm (18in)	115mm (5in)	480VAC	Thursday, March 5, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	HH-3021	HH-DP-01_CB_HH-LP-02
HH-LVSG-01-MAIN	18.20 cal/cm²	610mm (24in)	3340mm (131.5in)	480VAC	Tuesday, May 19, 2026	1.1m (42in)	305mm (12in)	0	Switchgear	HH-1010	HH-HVSG-01_FuseHH-HVSG-01
HH-PP-01	1.95 cal/cm²	457mm (18in)	619mm (24in)	208VAC	Thursday, March 5, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	HH-1010	HH-DP-02_CB_HH-PP-01
HH-PP-02	2.12 cal/cm²	457mm (18in)	652mm (26in)	208VAC	Thursday, March 5, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	HH-2020	HH-DP-02_CB_HH-PP-02
HH-PP-03	3.74 cal/cm²	457mm (18in)	930mm (37in)	208VAC	Thursday, March 5, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	HH-3021	HH-DP-02_CB_HH-PP-03
HH-PP-04	3.27 cal/cm²	457mm (18in)	860mm (33.9in)	208VAC	Tuesday, May 19, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	HH-3033	HH-DP-02_CB_HH-PP-04
HH-PP-05	2.82 cal/cm²	457mm (18in)	780mm (31in)	208VAC	Thursday, March 5, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	HH-2034	HH-DP-02_CB_HH-PP-05
HH-PP-06	0.21 cal/cm²	457mm (18in)	153mm (6in)	480VAC	Thursday, March 5, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	HH-1019	HH-DP-01_CB_HH-PP-06
HH-PP-07	2.85 cal/cm²	457mm (18in)	780mm (30.7in)	208VAC	Tuesday, May 19, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	HH-1010	HH-DP-02_CB_HH-PP-07
HH-PP-08	35.46 cal/cm²	457mm (18in)	3803mm (150in)	208VAC	Thursday, March 5, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	HH-2034	HH-DSW-04_Fuse_HH-DSW-04

HH-PP-09	3.3 cal/cm²	457mm (18in)	860mm (34in)	208VAC	Thursday, March 5, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	HH-2012A	HH-PP-07_CB_HH-PP-09
HH-PP-10	5.18 cal/cm²	457mm (18in)	1140mm (44.9in)	208VAC	Tuesday, May 19, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	HH-2014	HH-DP-01_CB_HH-TRAN-07
HH-PP-11	4.52 cal/cm²	457mm (18in)	1050mm (41.3in)	208VAC	Tuesday, May 19, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	HH-2014	HH-DP-01_CB_HH-TRAN-05
HH-PP-12	0.2 cal/cm²	457mm (18in)	149mm (6in)	480VAC	Thursday, March 5, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	HH-2014	HH-DP-01_CB_HH-UPS-01
HH-SPLITTER	5.6 cal/cm²	457mm (18in)	1197mm (47in)	480VAC	Thursday, March 5, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	HH-3059C	HH-ATS-03
HH-TRAN-02-HV	0.1 cal/cm²	457mm (18in)	99mm (4in)	480VAC	Thursday, March 5, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	HH-1010	HH-DSW-01_Fuse_HH-DSW-01
HH-TRAN-02-LV	2.16 cal/cm²	457mm (18in)	661mm (26in)	208VAC	Thursday, March 5, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	HH-1010	HH-DSW-01_Fuse_HH-DSW-01
HH-TRAN-03-HV	0.61 cal/cm²	457mm (18in)	300mm (11.8in)	480VAC	Tuesday, May 19, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	HH-1010	HH-DSW-10_No Fuse
HH-TRAN-03-LV	1.22 cal/cm²	457mm (18in)	460mm (18.1in)	208VAC	Tuesday, May 19, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	HH-1010	HH-DSW-10_No Fuse
HH-TRAN-05-HV	0.71 cal/cm²	457mm (18in)	330mm (13in)	480VAC	Tuesday, May 19, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	HH-1010	HH-DP-01_CB_HH-TRAN-05
HH-TRAN-05-LV	2.50 cal/cm²	457mm (18in)	720mm (28.3in)	208VAC	Tuesday, May 19, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	HH-1010	HH-DP-01_CB_HH-TRAN-05
HH-TRAN-06-HV	0.15 cal/cm²	457mm (18in)	123mm (5in)	480VAC	Thursday, March 5, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	HH-1010	HH-DSW-03_CB_HH-TRAN-06
HH-TRAN-06-LV	7.15 cal/cm²	457mm (18in)	1395mm (55in)	208VAC	Thursday, March 5, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	HH-1010	HH-DSW-03_CB_HH-TRAN-06
HH-TRAN-07-HV	0.68 cal/cm²	457mm (18in)	320mm (12.6in)	480VAC	Tuesday, May 19, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	HH-1010	HH-DP-01_CB_HH-TRAN-07
HH-TRAN-07-LV	2.94 cal/cm²	457mm (18in)	800mm (31.5in)	208VAC	Tuesday, May 19, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	HH-1010	HH-DP-01_CB_HH-TRAN-07
HH-TRAN-08-HV	0.14 cal/cm²	457mm (18in)	117mm (5in)	480VAC	Thursday, March 5, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	HH-1019	HH-DPE-01_CB_HH-TRAN-08
HH-TRAN-08-LV	10.36 cal/cm²	457mm (18in)	1760mm (69in)	208VAC	Thursday, March 5, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	HH-1019	HH-DPE-01_CB_HH-TRAN-08
HH-TRAN-10-HV	0.09 cal/cm²	457mm (18in)	89mm (4in)	480VAC	Thursday, March 5, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	HH-1018	HH-DSW-04_Fuse_HH-DSW-04
HH-TRAN-10-LV	15.7 cal/cm²	457mm (18in)	2284mm (90in)	208VAC	Thursday, March 5, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	HH-1018	HH-DSW-04_Fuse_HH-DSW-04
HH-TRAN-11-HV	4.24 cal/cm²	457mm (18in)	1006mm (40in)	480VAC	Thursday, March 5, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	HH-3059C	HH-ATS-03
HH-TRAN-11-LV	7.36 cal/cm²	457mm (18in)	1421mm (56in)	208VAC	Thursday, March 5, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	HH-3059C	HH-ATS-03
HH-UPS-01	0.14 cal/cm²	610mm (24in)	156mm (6in)	480VAC	Thursday, March 5, 2026	1.1m (42in)	305mm (12in)	0	Switchgear	HH-2014	HH-DP-01_CB_HH-UPS-01
HH-UPS-02	7.9 cal/cm²	610mm (24in)	1980mm (78in)	480VAC	Thursday, March 5, 2026	1.1m (42in)	305mm (12in)	0	Switchgear	HH-2014	HH-DPE-01_CB_HH-UPS-02

One-Line Diagram - RO->DH | Edit Mode



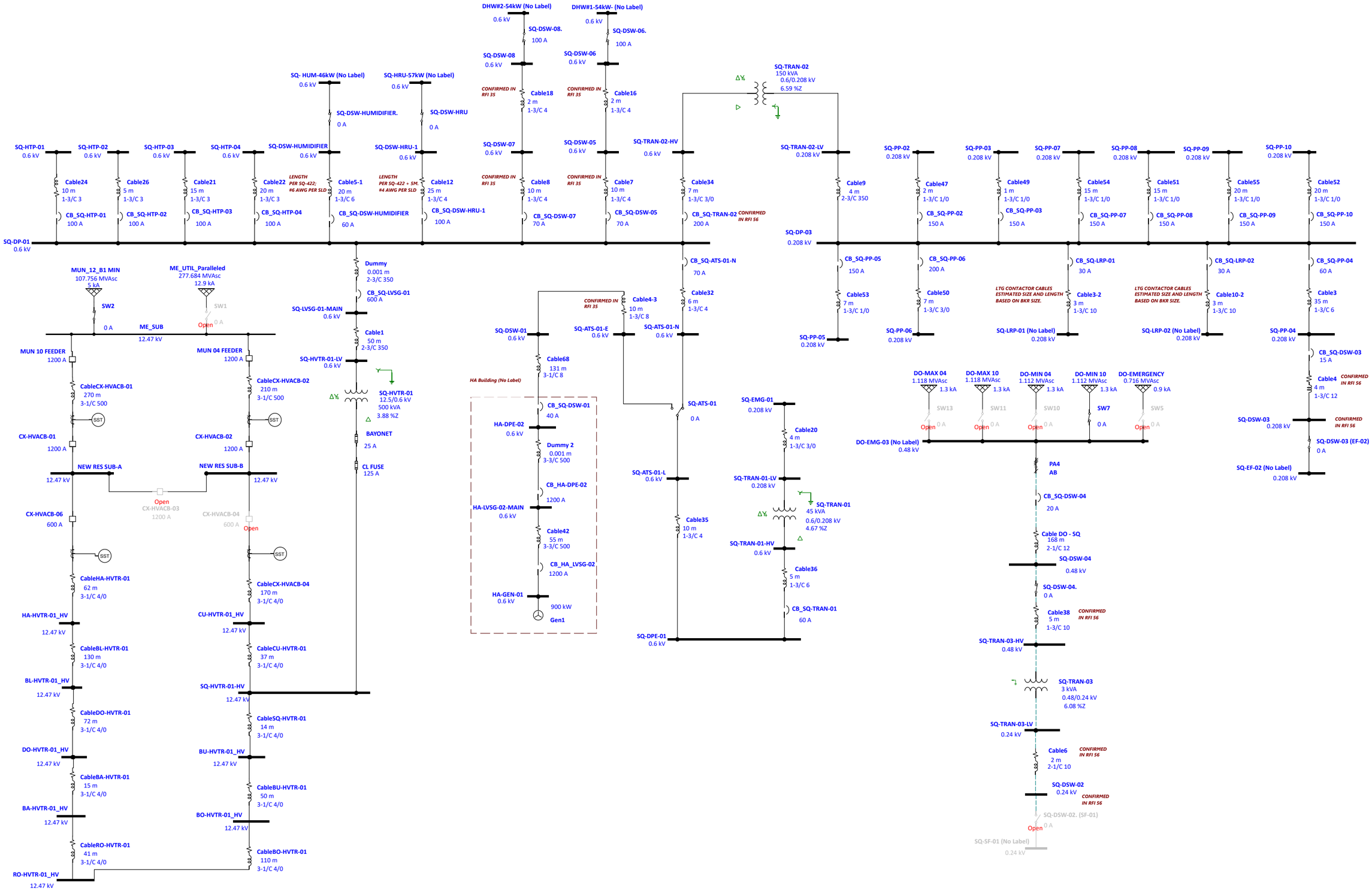
One-Line Diagram - RO | Edit Mode



Arc Flash Labels for Panels

VDP_TAG	VDP_INCIDENT	VDP_WORKING	VDP_ARCFLASH	VDP_NOMINAL	VDP_PERFORMED	VDP_Limited	VDP_Restricted	VDP_Gloves	VDP_Equipment	VDP_Location	VDP_Fed From
DH-ATS-01-E	0.04 cal/cm²	610mm (24in)	78mm (3in)	600VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	RO-004	DH-DSW-01_NO FUSED
DH-ATS-01-N	0.34 cal/cm²	610mm (24in)	278mm (11in)	600VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	RO-004	RO-DP-02_CB_DH-ATS-01-N
DH-DP-01	370.48 cal/cm²	610mm (24in)	22018mm (867in)	208VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	DH-1002	RO-DP-02_CB_RO-TRAN-03
DH-DP-02	375.51 cal/cm²	610mm (24in)	22205mm (874in)	208VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	DH-1002	RO-DP-02_CB_RO-TRAN-04
DH-DP-03	214.99 cal/cm²	610mm (24in)	15663mm (617in)	208VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	TP-1002	RO-DP-02_CB_RO-TRAN-05
DH-DSW-01	0.07 cal/cm²	457mm (18in)	75mm (3in)	600VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RO-004	HA-DPE-02_CB_DH-DSW-01
DH-DSW-11	0.06 cal/cm²	457mm (18in)	67mm (3in)	208VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Panelboard		DH-PP-06_CB_DH-DSW-11
DH-DSW-AHU-01	43.48 cal/cm²	457mm (18in)	4320mm (170in)	208VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	DH-1000M	DH-MCC-02_CB_DH-DSW-AHU-01
DH-DSW-AHU-02	0.04 cal/cm²	457mm (18in)	51mm (2in)	208VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	DH-1000M	DH-MCC-01_CB_DH-DSW-AHU-2
DH-DSW-CIRP-01	0.01 cal/cm²	457mm (18in)	19mm (1in)	208VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	DH-1000M	DH-MCC-02_CB_DH-DSW-CIRP-01
DH-DSW-CIRP-02	0.01 cal/cm²	457mm (18in)	19mm (1in)	208VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	DH-1000M	DH-MCC-02_CB_DH-DSW-CIRP-02
DH-DSW-CIRP-03	0.03 cal/cm²	457mm (18in)	42mm (2in)	208VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	DH-1000M	DH-MCC-01_CB_DH-DSW-CIRP-03
DH-DSW-CIRP-04	0.03 cal/cm²	457mm (18in)	41mm (2in)	208VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	DH-1000M	DH-MCC-01_CB_DH-DSW-CIRP-04
DH-DSW-CIRP-05	0.03 cal/cm²	457mm (18in)	46mm (2in)	208VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	DH-1000M	DH-MCC-01_CB_DH-DSW-CIRP-05
DH-DSW-CIRP-06	0.03 cal/cm²	457mm (18in)	41mm (2in)	208VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	DH-1000M	DH-MCC-01_CB_DH-DSW-CIRP-06
DH-DSW-ELEV-01	23.52 cal/cm²	457mm (18in)	2941mm (116in)	208VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	TUNNEL	DH-DP-03_CB_DH-DSW-ELEV-01
DH-DSW-ELEV-02	23.58 cal/cm²	457mm (18in)	2946mm (116in)	208VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	MEZZANINE	DH-DP-03_CB_DH-DSW-ELEV-02
DH-EMG-01	13.77 cal/cm²	457mm (18in)	2104mm (83in)	208VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	DH-1000	RO-DPE-02_CB_DH-EMG-01
DH-EMG-02	409.45 cal/cm²	457mm (18in)	17580mm (692in)	208VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	TP-1002	DH-ATS-01
DH-EMG-03	1.45 cal/cm²	457mm (18in)	514mm (20in)	208VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	DH-2006B	RO-DPE-02_CB_DH-EMG-03
DH-MCC-01	25.12 cal/cm²	457mm (18in)	3065mm (121in)	208VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	MCC	DH-1000M	DH-DP-01_CB_DH-MCC-01
DH-MCC-02	25.31 cal/cm²	457mm (18in)	3080mm (121in)	208VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	MCC	DH-1000M	DH-DP-02_CB_DH-MCC-02
DH-PP-01	0.06 cal/cm²	457mm (18in)	73mm (3in)	208VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	DH-1000	DH-DP-01_CB_DH-PP-01
DH-PP-02	0.02 cal/cm²	457mm (18in)	35mm (1in)	208VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	DH-1000M	DH-PP-01_CB_DH-PP-02
DH-PP-03	0.1 cal/cm²	457mm (18in)	94mm (4in)	208VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	DH-1000	DH-DP-01_CB_DH-PP-03
DH-PP-04	21.74 cal/cm²	457mm (18in)	2800mm (110in)	208VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	DH-1000	DH-DP-01_CB_DH-PP-04
DH-PP-05	20.81 cal/cm²	457mm (18in)	2725mm (107in)	208VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	DH-1000	DH-DP-02_CB_DH-PP-05
DH-PP-06	0.38 cal/cm²	457mm (18in)	222mm (9in)	208VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	DH-1000	DH-DP-02_CB_DH-PP-06
DH-PP-07	239.06 cal/cm²	457mm (18in)	12554mm (494in)	208VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	DH-1002	DH-DP-02_CB_DH-PP-07
DH-PP-08	20.46 cal/cm²	457mm (18in)	2696mm (106in)	208VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	DH-2002B	RO-PP-01_CB_DH-PP-08
DH-PP-09	2.4 cal/cm²	457mm (18in)	705mm (28in)	208VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	DH-2002	DH-PP-08_CB_DH-PP-09
DH-PP-10	0.1 cal/cm²	457mm (18in)	96mm (4in)	208VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	DH-1002	DH-DP-02_CB_DH-PP-10
DH-PP-12	0.08 cal/cm²	457mm (18in)	83mm (3in)	208VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	DH-2001	DH-PP-06_CB_DH-PP-12
DH-PP-13	1.3 cal/cm²	457mm (18in)	480mm (19in)	208VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	DH-2006B	RO-PP-01_CB_DH-PP-13
DH-PP-14	12.03 cal/cm²	457mm (18in)	1934mm (76in)	208VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	DH-1000D	DH-DP-03_CB_DH-PP-14
DH-PP-15	1.23 cal/cm²	457mm (18in)	465mm (18in)	208VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	DH-1000B	DH-PP-03_CB_DH-PP-15
DH-TRAN-01-HV	0.42 cal/cm²	457mm (18in)	237mm (9in)	600VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RO-004	DH-ATS-01
DH-TRAN-01-LV	32.07 cal/cm²	457mm (18in)	3571mm (141in)	208VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RO-004	DH-ATS-01
RO-ATS-01-E	16.49 cal/cm²	610mm (24in)	3140mm (124in)	600VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	RO-004	RO-DSW-01_CB_RO-DSW-01
RO-ATS-01-N	0.35 cal/cm²	610mm (24in)	284mm (11in)	600VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	RO-004	RO-DP-01_CB_RO-ATS-01-N
RO-DHWT-01	0.62 cal/cm131	457mm (18in)	302mm (12in)	600VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	DH-1016	RO-DP-01_CB_RO-DHWT-01
RO-DHWT-02	0.55 cal/cm132	457mm (18in)	282mm (11in)	600VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	DH-1016	RO-DP-01_CB_RO-DHWT-02
RO-DP-01	1.5 cal/cm133	610mm (24in)	702mm (28in)	600VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	RO-200	_RO-LVSG-01
RO-DP-02	1.5 cal/cm134	610mm (24in)	702mm (28in)	600VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	RO-200	_RO-LVSG-01
RO-DP-03	309.04 cal/cm135	610mm (24in)	19656mm (774in)	208VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	RO-200	RO-DP-01_CB_RO-TRAN-06
RO-DPE-01	16.47 cal/cm136	610mm (24in)	3137mm (124in)	600VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	RO-004	RO-DP-01_CB_RO-DSW-01
RO-DPE-02	9.23 cal/cm137	610mm (24in)	2184mm (86in)	208VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	RO-004	RO-DPE-01_CB_RO-TRAN-01
RO-DPE-03	1.55 cal/cm138	610mm (24in)	713mm (28in)	208VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	RO-200	RO-DPE-02_CB_RO-DPE-03
RO-DSW-01	24.55 cal/cm139	457mm (18in)	3020mm (119in)	600VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RO-004	HA-DPE-02_CB_RO-DSW-01
RO-DSW-HRU-01	0.62 cal/cm140	457mm (18in)	302mm (12in)	600VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	ROOF	RO-DP-01_CB_RO-DSW-HRU-01
RO-HVTR-01_HV	1 cal/cm141	914mm (36in)	811mm (32in)	12470VAC	Wednesday, January 14, 2026	1.5m (60in)	658mm (26in)	2	Cable Bus	PADMOUNT	_CX-HVACB-06
RO-HVTR-01-LV	18.62 cal/cm142	457mm (18in)	2541mm (100in)	600VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	PADMOUNT	_BAYONET
RO-LVSG-01-MAIN	17.89 cal/cm143	610mm (24in)	3305mm (130in)	600VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Switchgear	RO-200	RO-HVTR-01_BAYONET
RO-PP-01	28.74 cal/cm144	457mm (18in)	3335mm (131in)	208VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RO-004	RO-DP-01_CB_RO-TRAN-02
RO-PP-02	0.37 cal/cm145	457mm (18in)	217mm (9in)	600VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RO-322	RO-DP-01_CB_RO-PP-02
RO-PP-03	22.13 cal/cm146	457mm (18in)	2832mm (111in)	208VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RO-322	RO-DP-03_CB_RO-PP-03
RO-PP-04	22.13 cal/cm147	457mm (18in)	2832mm (111in)	208VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RO-322	RO-DP-03_CB_RO-PP-04
RO-PP-05	0.34 cal/cm148	457mm (18in)	207mm (8in)	600VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RO-422	RO-DP-01_CB_RO-PP-05
RO-PP-06	22.35 cal/cm149	457mm (18in)	2849mm (112in)	208VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RO-422	RO-DP-03_CB_RO-PP-06
RO-PP-07	22.35 cal/cm150	457mm (18in)	2849mm (112in)	208VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RO-422	RO-DP-03_CB_RO-PP-07
RO-PP-08	0.4 cal/cm151	457mm (18in)	228mm (9in)	600VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RO-218	RO-DP-01_CB_RO-PP-08

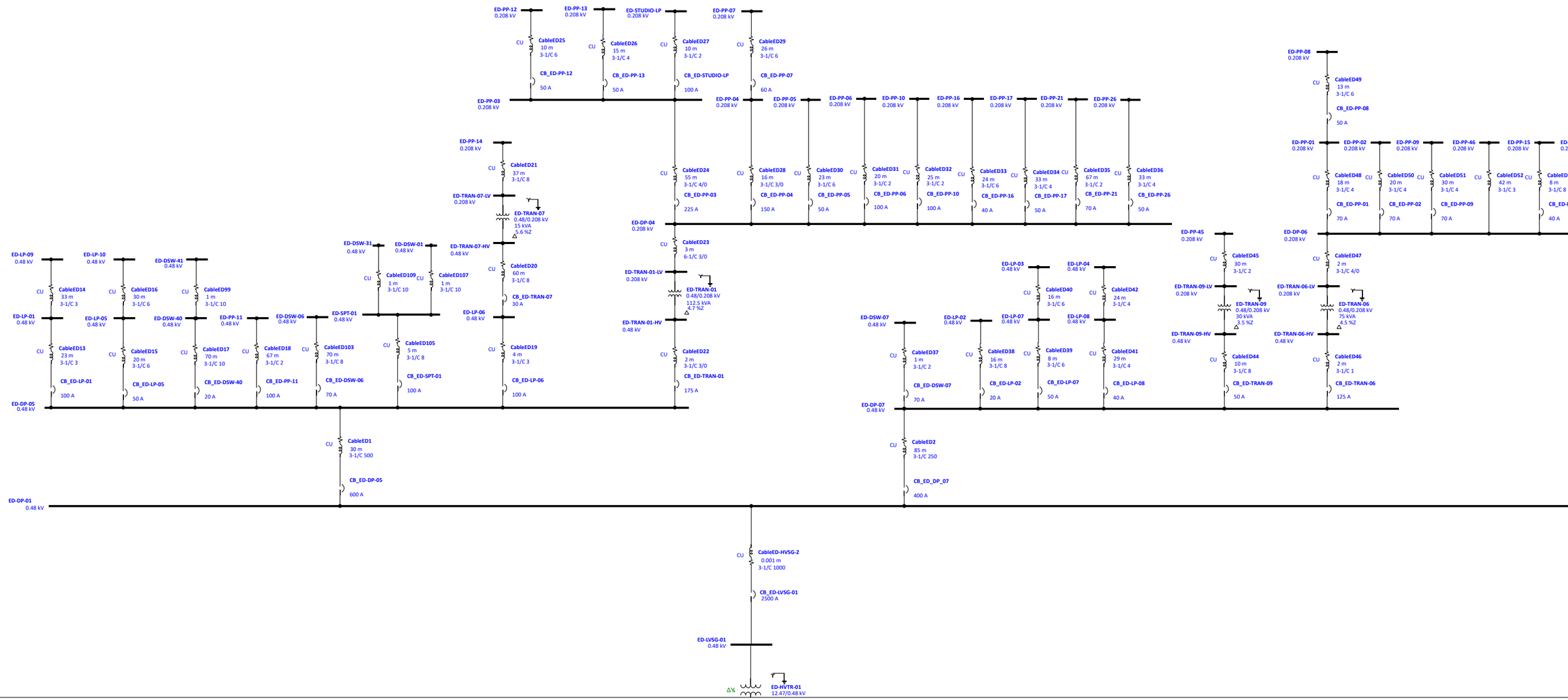
RO-PP-09	21.92 cal/cm152	457mm (18in)	2814mm (111in)	208VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RO-218	RO-DP-03_CB_RO-PP-09
RO-PP-10	21.92 cal/cm153	457mm (18in)	2814mm (111in)	208VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RO-218	RO-DP-03_CB_RO-PP-10
RO-PP-11	39.58 cal/cm154	457mm (18in)	4074mm (160in)	208VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RO-117	RO-DP-03_CB_RO-PP-11
RO-PP-12	22.13 cal/cm155	457mm (18in)	2832mm (111in)	208VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RO-117	RO-DP-03_CB_RO-PP-12
RO-PP-13	0.37 cal/cm156	457mm (18in)	217mm (9in)	600VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RO-117	RO-DP-01_CB_RO-PP-13
RO-TRAN-01-HV	0.37 cal/cm157	457mm (18in)	219mm (9in)	600VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RO-004	RO-DPE-01_CB_RO-TRAN-01
RO-TRAN-01-LV	10.51 cal/cm158	457mm (18in)	1776mm (70in)	208VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RO-004	RO-DPE-01_CB_RO-TRAN-01
RO-TRAN-02-HV	0.46 cal/cm159	457mm (18in)	250mm (10in)	600VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RO-004	RO-DP-01_CB_RO-TRAN-02
RO-TRAN-02-LV	18.3 cal/cm160	457mm (18in)	2514mm (99in)	208VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RO-004	RO-DP-01_CB_RO-TRAN-02
RO-TRAN-03-HV	0.62 cal/cm161	457mm (18in)	302mm (12in)	600VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RO-200	RO-DP-02_CB_RO-TRAN-03
RO-TRAN-03-LV	0.21 cal/cm162	457mm (18in)	155mm (6in)	208VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RO-200	RO-DP-02_CB_RO-TRAN-03
RO-TRAN-04-HV	0.6 cal/cm163	457mm (18in)	296mm (12in)	600VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RO-200	RO-DP-02_CB_RO-TRAN-04
RO-TRAN-04-LV	0.21 cal/cm164	457mm (18in)	155mm (6in)	208VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RO-200	RO-DP-02_CB_RO-TRAN-04
RO-TRAN-05-HV	0.6 cal/cm165	457mm (18in)	295mm (12in)	600VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RO-200	RO-DP-02_CB_RO-TRAN-05
RO-TRAN-05-LV	201.24 cal/cm166	457mm (18in)	11272mm (444in)	208VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RO-200	RO-DP-02_CB_RO-TRAN-05
RO-TRAN-06-HV	0.62 cal/cm167	457mm (18in)	302mm (12in)	600VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RO-200	RO-DP-01_CB_RO-TRAN-06
RO-TRAN-06-LV	321.05 cal/cm168	457mm (18in)	15098mm (594in)	208VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RO-200	RO-DP-01_CB_RO-TRAN-06
TU-PP-01	2.42 cal/cm169	457mm (18in)	708mm (28in)	208VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	TU-1003	RO-DPE-02_CB_DH-TU-PP-1


DHW#2-54kW (No Label)
0.6 kV
SQ-DSW-08.
100 A
SQ-DSW-08
0.6 kV
CONFIRMED IN RFI 35
Cable18
2 m
1-3/C 4
DHW#1-54kW- (No Label)
0.6 kV
SQ-DSW-06.
100 A
SQ-DSW-06
0.6 kV
CONFIRMED IN RFI 35
Cable16
2 m
1-3/C 4
SQ- HUM-46kW (No Label)
0.6 kV
SQ-DSW-HUMIDIFIER.
0 A
SQ-HRU-57kW (No Label)
0.6 kV
SQ-DSW-HRU
0 A
SQ-TRAN-02
150 kVA
0.6/0.208 kV
6.59 %Z
SQ-HTP-01
0.6 kV
SQ-HTP-02
0.6 kV
SQ-HTP-03
0.6 kV
SQ-HTP-04
0.6 kV
SQ-DSW-HUMIDIFIER
0.6 kV
SQ-DSW-HRU-1
0.6 kV
SQ-DSW-07
0.6 kV
SQ-DSW-05
0.6 kV
SQ-TRAN-02-HV
0.6 kV
SQ-TRAN-02-LV
0.208 kV
Cable24
10 m
1-3/C 3
Cable26
5 m
1-3/C 3
Cable21
15 m
1-3/C 3
Cable22
20 m
1-3/C 3
LENGTH PER SQ-422; #6 AWG PER SLD
Cable5-1
20 m
1-3/C 6
LENGTH PER SQ-422 + 5M, #4 AWG PER SLD
Cable12
25 m
1-3/C 4
CONFIRMED IN RFI 35
Cable8
10 m
1-3/C 4
CONFIRMED IN RFI 35
Cable7
10 m
1-3/C 4
Cable34
7 m
1-3/C 3/0
Cable9
4 m
2-3/C 350
CB_SQ-HTP-01
100 A
CB_SQ-HTP-02
100 A
CB_SQ-HTP-03
100 A
CB_SQ-HTP-04
100 A
CB_SQ-DSW-HUMIDIFIER
60 A
CB_SQ-DSW-HRU-1
100 A
CB_SQ-DSW-07
70 A
CB_SQ-DSW-05
70 A
CB_SQ-TRAN-02
200 A
CONFIRMED IN RFI 56
SQ-DP-01
0.6 kV
SQ-DP-03
0.208 kV
SQ-PP-02
0.208 kV
SQ-PP-03
0.208 kV
SQ-PP-07
0.208 kV
SQ-PP-08
0.208 kV
SQ-PP-09
0.208 kV
SQ-PP-10
0.208 kV
Cable47
2 m
1-3/C 1/0
Cable49
1 m
1-3/C 1/0
Cable54
15 m
1-3/C 1/0
Cable51
15 m
1-3/C 1/0
Cable55
20 m
1-3/C 1/0
Cable52
20 m
1-3/C 1/0
CB_SQ-PP-02
150 A
CB_SQ-PP-03
150 A
CB_SQ-PP-07
150 A
CB_SQ-PP-08
150 A
CB_SQ-PP-09
150 A
CB_SQ-PP-10
150 A
CB_SQ-PP-05
150 A
CB_SQ-PP-06
200 A
CB_SQ-LRP-01
30 A
CB_SQ-LRP-02
30 A
CB_SQ-PP-04
60 A
Cable53
7 m
1-3/C 1/0
Cable50
7 m
1-3/C 3/0
LTG CONTACTOR CABLES ESTIMATED SIZE AND LENGTH BASED ON BKR SIZE.
Cable3-2
3 m
1-3/C 10
LTG CONTACTOR CABLES ESTIMATED SIZE AND LENGTH BASED ON BKR SIZE.
Cable10-2
3 m
1-3/C 10
Cable3
35 m
1-3/C 6
SQ-PP-05
0.208 kV
SQ-PP-06
0.208 kV
SQ-LRP-01 (No Label)
0.208 kV
SQ-LRP-02 (No Label)
0.208 kV
SQ-PP-04
0.208 kV
CB_SQ-DSW-03
15 A
Cable4
4 m
1-3/C 12
CONFIRMED IN RFI 56
SQ-DSW-03
0.208 kV
CONFIRMED IN RFI 56
SQ-DSW-03 (EF-02)
0 A
SQ-EF-02 (No Label)
0.208 kV
MUN_12_B1 MIN
107.756 MVAsc
5 kA
ME_UTIL_Paralleled
277.684 MVAsc
12.9 kA
SW2
0 A
SW1
Open
0 A
ME_SUB
12.47 kV
Dummy
0.001 m
2-3/C 350
CB_SQ-LVSG-01
600 A
SQ-LVSG-01-MAIN
0.6 kV
Cable1
50 m
2-3/C 350
SQ-HVTR-01-LV
0.6 kV
SQ-HVTR-01
12.5/0.6 kV
500 kVA
3.88 %Z
BAYONET
25 A
CL FUSE
125 A
MUN 10 FEEDER
1200 A
MUN 04 FEEDER
1200 A
CableCX-HVACB-01
270 m
3-1/C 500
CableCX-HVACB-02
210 m
3-1/C 500
CX-HVACB-01
1200 A
CX-HVACB-02
1200 A
NEW RES SUB-A
12.47 kV
NEW RES SUB-B
12.47 kV
Open
CX-HVACB-03
1200 A
CX-HVACB-04
600 A
Open
CX-HVACB-06
600 A
CableHA-HVTR-01
62 m
3-1/C 4/0
CableCX-HVACB-04
170 m
3-1/C 4/0
HA-HVTR-01_HV
12.47 kV
CU-HVTR-01_HV
12.47 kV
CableBL-HVTR-01
130 m
3-1/C 4/0
CableCU-HVTR-01
37 m
3-1/C 4/0
BL-HVTR-01_HV
12.47 kV
SQ-HVTR-01-HV
12.47 kV
CableDO-HVTR-01
72 m
3-1/C 4/0
CableSQ-HVTR-01
14 m
3-1/C 4/0
DO-HVTR-01_HV
12.47 kV
BU-HVTR-01_HV
12.47 kV
CableBA-HVTR-01
15 m
3-1/C 4/0
CableBU-HVTR-01
50 m
3-1/C 4/0
BA-HVTR-01_HV
12.47 kV
BO-HVTR-01_HV
12.47 kV
CableRO-HVTR-01
41 m
3-1/C 4/0
CableBO-HVTR-01
110 m
3-1/C 4/0
RO-HVTR-01_HV
12.47 kV
SQ-DSW-01
0.6 kV
SQ-ATS-01-E
0.6 kV
SQ-ATS-01-N
0.6 kV
CONFIRMED IN RFI 35
Cable4-3
10 m
1-3/C 8
CB_SQ-ATS-01-N
70 A
Cable32
6 m
1-3/C 4
SQ-ATS-01
0 A
HA Building (No Label)
Cable68
131 m
3-1/C 8
CB_SQ-DSW-01
40 A
HA-DPE-02
0.6 kV
Dummy 2
0.001 m
3-3/C 500
CB_HA-DPE-02
1200 A
HA-LVSG-02-MAIN
0.6 kV
Cable42
55 m
3-3/C 500
CB_HA_LVSG-02
1200 A
HA-GEN-01
0.6 kV
900 kW
Gen1
SQ-EMG-01
0.208 kV
Cable20
4 m
1-3/C 3/0
SQ-ATS-01-L
0.6 kV
SQ-TRAN-01-LV
0.208 kV
SQ-TRAN-01
45 kVA
0.6/0.208 kV
4.67 %Z
Cable35
10 m
1-3/C 4
SQ-TRAN-01-HV
0.6 kV
Cable36
5 m
1-3/C 6
CB_SQ-TRAN-01
60 A
SQ-DPE-01
0.6 kV
DO-MAX 04
1.118 MVAsc
1.3 kA
DO-MAX 10
1.118 MVAsc
1.3 kA
DO-MIN 04
1.112 MVAsc
1.3 kA
DO-MIN 10
1.112 MVAsc
1.3 kA
DO-EMERGENCY
0.716 MVAsc
0.9 kA
SW13
Open
0 A
SW11
Open
0 A
SW10
Open
0 A
SW7
0 A
SW5
Open
0 A
DO-EMG-03 (No Label)
0.48 kV
PA4
AB
CB_SQ-DSW-04
20 A
Cable DO - SQ
168 m
2-1/C 12
SQ-DSW-04
0.48 kV
SQ-DSW-04.
0 A
Cable38
5 m
1-3/C 10
CONFIRMED IN RFI 56
SQ-TRAN-03-HV
0.48 kV
SQ-TRAN-03
3 kVA
0.48/0.24 kV
6.08 %Z
SQ-TRAN-03-LV
0.24 kV
Cable6
2 m
2-1/C 10
CONFIRMED IN RFI 56
SQ-DSW-02
0.24 kV
CONFIRMED IN RFI 56
SQ-DSW-02. (SF-01)
Open
0 A
SQ-SF-01 (No Label)
0.24 kV

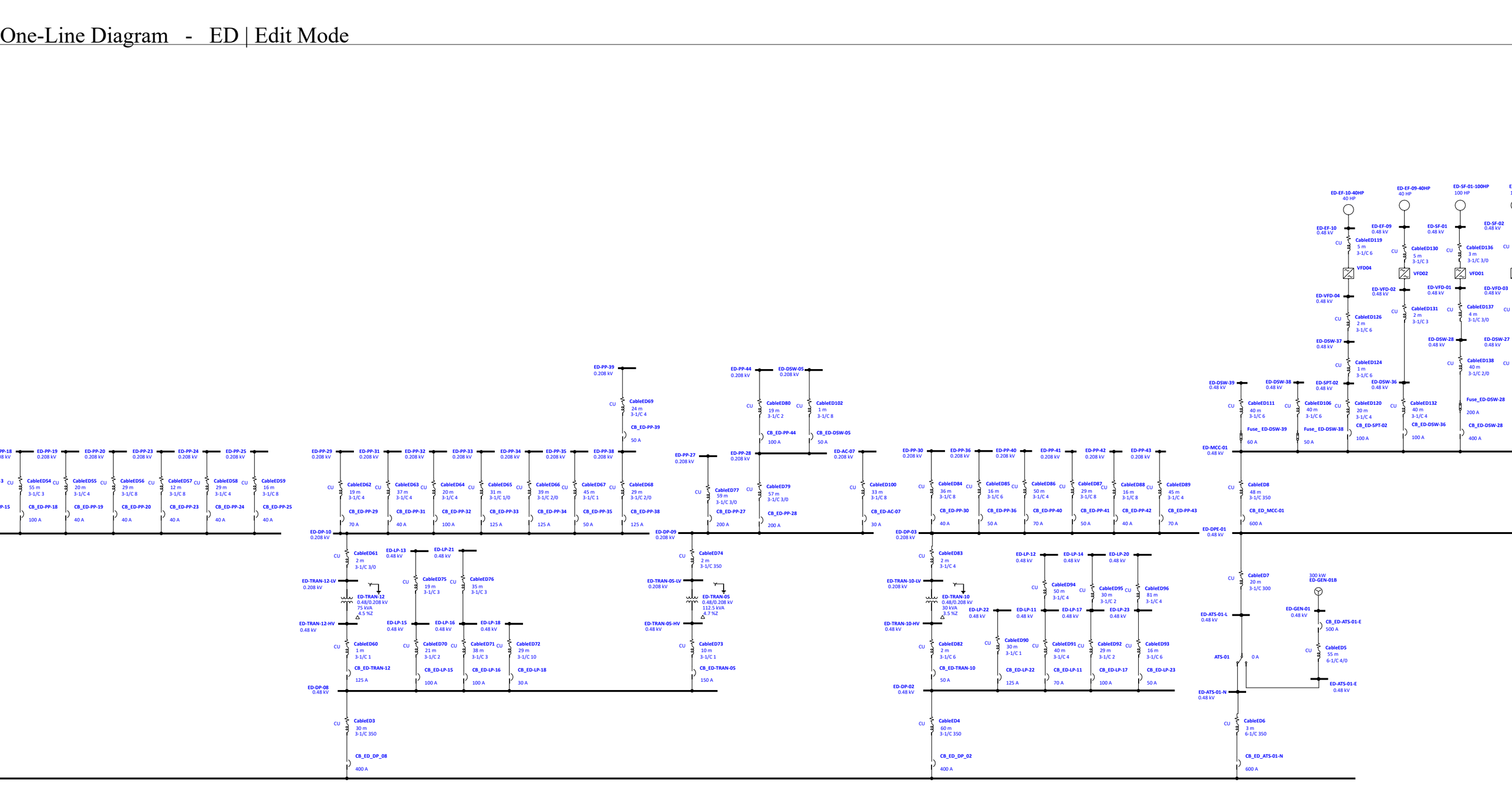
Arc Flash Labels for Panels

VDP_TAG	VDP_INCIDENT	VDP_WORKING	VDP_ARCFLASH	VDP_NOMINAL	VDP_PERFORMED	VDP_Limited	VDP_Restricted	VDP_Gloves	VDP_Equipment	VDP_Location	VDP_Fed From
SQ-ATS-01-E	1.59 cal/cm²	610mm (24in)	722mm (28in)	600VAC	Tuesday, February 10, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	SQ-115	SQ-DSW-01_CB_SQ-DSW-01
SQ-ATS-01-N	0.2 cal/cm²	610mm (24in)	198mm (8in)	600VAC	Tuesday, February 10, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	SQ-115	SQ-DP-01_CB_SQ-ATS-01-N
SQ-DP-01	0.66 cal/cm²	610mm (24in)	419mm (16in)	600VAC	Tuesday, February 10, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	SQ-220	SQ-LVSG-01_CB_SQ-LVSG-01
SQ-DP-03	452.44 cal/cm²	610mm (24in)	24951mm (982in)	208VAC	Tuesday, February 10, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	SQ-220	SQ-DP-01_CB_SQ-TRAN-02
SQ-DPE-01	1.6 cal/cm²	610mm (24in)	727mm (29in)	600VAC	Tuesday, February 10, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	SQ-220	SQ-ATS-01
SQ-DSW-01	2.23 cal/cm²	457mm (18in)	671mm (26in)	600VAC	Tuesday, February 10, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	SQ-220	HA-DPE-02_CB_SQ-DSW-01
SQ-DSW-02	808.6 cal/cm²	457mm (18in)	26913mm (1060in)	240VAC	Tuesday, February 10, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	SQ-0001	SQ-DSW-04_No Fuse
SQ-DSW-03	0.02 cal/cm²	457mm (18in)	32mm (1in)	208VAC	Tuesday, February 10, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	SQ-0001	SQ-PP-04_CB_SQ-DSW-03
SQ-DSW-04	0.84 cal/cm²	457mm (18in)	365mm (14in)	480VAC	Tuesday, February 10, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	SQ-0001	DO-EMG-03_CB_SQ-DSW-04
SQ-DSW-05	0.28 cal/cm²	457mm (18in)	182mm (7in)	600VAC	Tuesday, February 10, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	SQ-0001	SQ-DP-01_CB_SQ-DSW-05
SQ-DSW-06	0.27 cal/cm²	457mm (18in)	178mm (7in)	600VAC	Tuesday, February 10, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	SQ-0001	SQ-DSW-05_No Fuse
SQ-DSW-07	0.28 cal/cm²	457mm (18in)	182mm (7in)	600VAC	Tuesday, February 10, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	SQ-0001	SQ-DP-01_CB_SQ-DSW-07
SQ-DSW-08	0.27 cal/cm²	457mm (18in)	178mm (7in)	600VAC	Tuesday, February 10, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	SQ-0001	SQ-DSW-07_No Fuse
SQ-DSW-HRU-1	0.21 cal/cm²	457mm (18in)	155mm (6in)	600VAC	Tuesday, February 10, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	ROOF	SQ-DP-01_CB_SQ-DSW-HRU-1
SQ-DSW-HUMIDIFIER	0.19 cal/cm²	457mm (18in)	143mm (6in)	600VAC	Tuesday, February 10, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	ROOF	SQ-DP-01_CB_SQ-DSW-HUMIDIFIER
SQ-EMG-01	10.46 cal/cm²	457mm (18in)	1772mm (70in)	208VAC	Tuesday, February 10, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	SQ-220	SQ-DPE-01_CB_SQ-TRAN-01
SQ-HTP-01	0.29 cal/cm²	457mm (18in)	188mm (7in)	600VAC	Tuesday, February 10, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	SQ-115	SQ-DP-01_CB_SQ-HTP-01
SQ-HTP-02	0.31 cal/cm²	457mm (18in)	197mm (8in)	600VAC	Tuesday, February 10, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	SQ-220	SQ-DP-01_CB_SQ-HTP-02
SQ-HTP-03	0.27 cal/cm²	457mm (18in)	180mm (7in)	600VAC	Tuesday, February 10, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	SQ-321	SQ-DP-01_CB_SQ-HTP-03
SQ-HTP-04	0.25 cal/cm²	457mm (18in)	171mm (7in)	600VAC	Tuesday, February 10, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	SQ-422	SQ-DP-01_CB_SQ-HTP-04
SQ-HVTR-01-HV	1.07 cal/cm²	914mm (36in)	849mm (33in)	12470VAC	Tuesday, February 10, 2026	1.5m (60in)	658mm (26in)	2	Cable Bus	PADMOUNT	_CX-HVACB-04
SQ-HVTR-01-LV	1.63 cal/cm²	457mm (18in)	553mm (22in)	600VAC	Tuesday, February 10, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	PADMOUNT	_BAYONET
SQ-LVSG-01-MAIN	1.51 cal/cm²	610mm (24in)	702mm (28in)	600VAC	Tuesday, February 10, 2026	1.1m (42in)	305mm (12in)	0	Switchgear	SQ-220	SQ-HVTR-01_BAYONET
SQ-PP-02	22.03 cal/cm²	457mm (18in)	2824mm (111in)	208VAC	Tuesday, February 10, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	SQ-220	SQ-DP-03_CB_SQ-PP-02
SQ-PP-03	21.98 cal/cm²	457mm (18in)	2820mm (111in)	208VAC	Tuesday, February 10, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	SQ-220	SQ-DP-03_CB_SQ-PP-03
SQ-PP-04	5.62 cal/cm²	457mm (18in)	1201mm (47in)	208VAC	Tuesday, February 10, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	SQ-0001	SQ-DP-03_CB_SQ-PP-04
SQ-PP-05	22.29 cal/cm²	457mm (18in)	2845mm (112in)	208VAC	Tuesday, February 10, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	SQ-115	SQ-DP-03_CB_SQ-PP-05
SQ-PP-06	44.49 cal/cm²	457mm (18in)	4383mm (173in)	208VAC	Tuesday, February 10, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	SQ-115	SQ-DP-03_CB_SQ-PP-06
SQ-PP-07	22.74 cal/cm²	457mm (18in)	2880mm (113in)	208VAC	Tuesday, February 10, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	SQ-321	SQ-DP-03_CB_SQ-PP-07
SQ-PP-08	22.74 cal/cm²	457mm (18in)	2880mm (113in)	208VAC	Tuesday, February 10, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	SQ-321	SQ-DP-03_CB_SQ-PP-08
SQ-PP-09	23.02 cal/cm²	457mm (18in)	2902mm (114in)	208VAC	Tuesday, February 10, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	SQ-422	SQ-DP-03_CB_SQ-PP-09
SQ-PP-10	23.02 cal/cm²	457mm (18in)	2902mm (114in)	208VAC	Tuesday, February 10, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	SQ-422	SQ-DP-03_CB_SQ-PP-10
SQ-TRAN-01-HV	1.24 cal/cm²	457mm (18in)	465mm (18in)	600VAC	Tuesday, February 10, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	SQ-220	SQ-DPE-01_CB_SQ-TRAN-01
SQ-TRAN-01-LV	9.54 cal/cm²	457mm (18in)	1671mm (66in)	208VAC	Tuesday, February 10, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	SQ-220	SQ-DPE-01_CB_SQ-TRAN-01
SQ-TRAN-02-HV	0.27 cal/cm²	457mm (18in)	181mm (7in)	600VAC	Tuesday, February 10, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	SQ-220	SQ-DP-01_CB_SQ-TRAN-02
SQ-TRAN-02-LV	118.85 cal/cm²	457mm (18in)	8107mm (319in)	208VAC	Tuesday, February 10, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	SQ-220	SQ-DP-01_CB_SQ-TRAN-02
SQ-TRAN-03-HV	0.63 cal/cm²	457mm (18in)	307mm (12in)	480VAC	Tuesday, February 10, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	SQ-0001	SQ-DSW-04_No Fuse
SQ-TRAN-03-LV	715.66 cal/cm²	457mm (18in)	24933mm (982in)	240VAC	Tuesday, February 10, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	SQ-0001	SQ-DSW-04_No Fuse

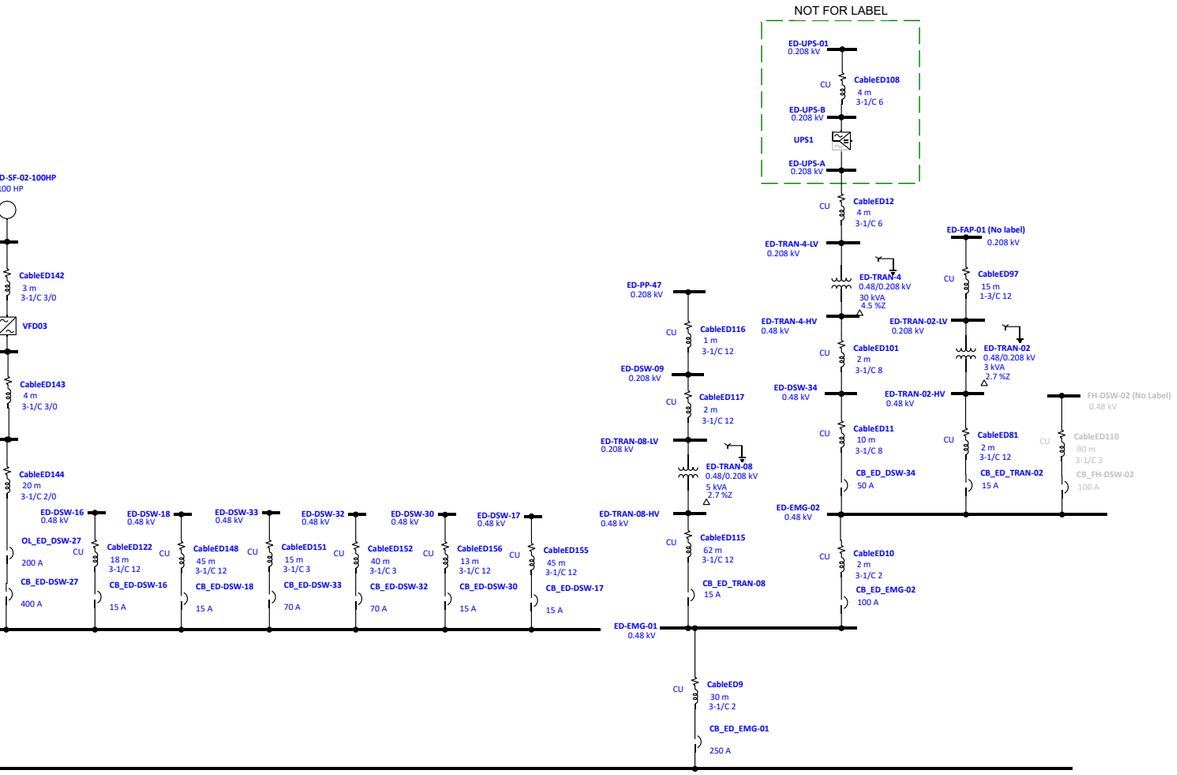
One-Line Diagram - ED | Edit Mode

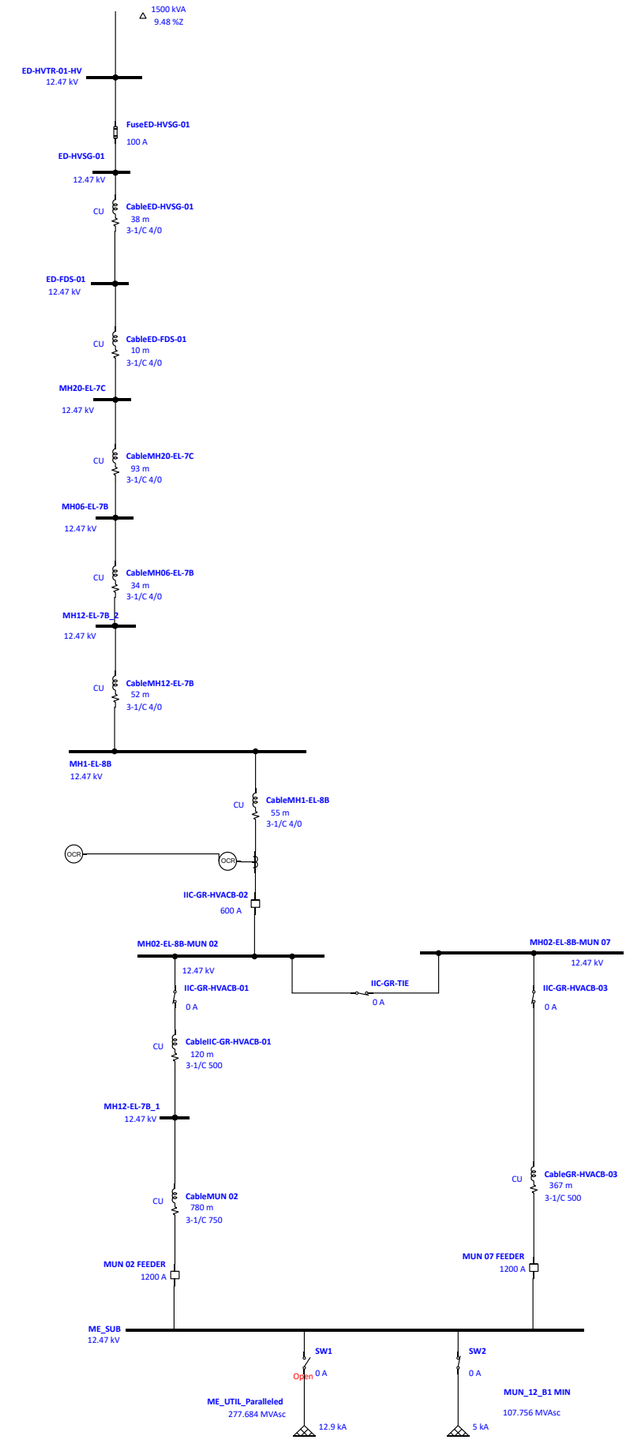


One-Line Diagram - ED | Edit Mode



One-Line Diagram - ED | Edit Mode

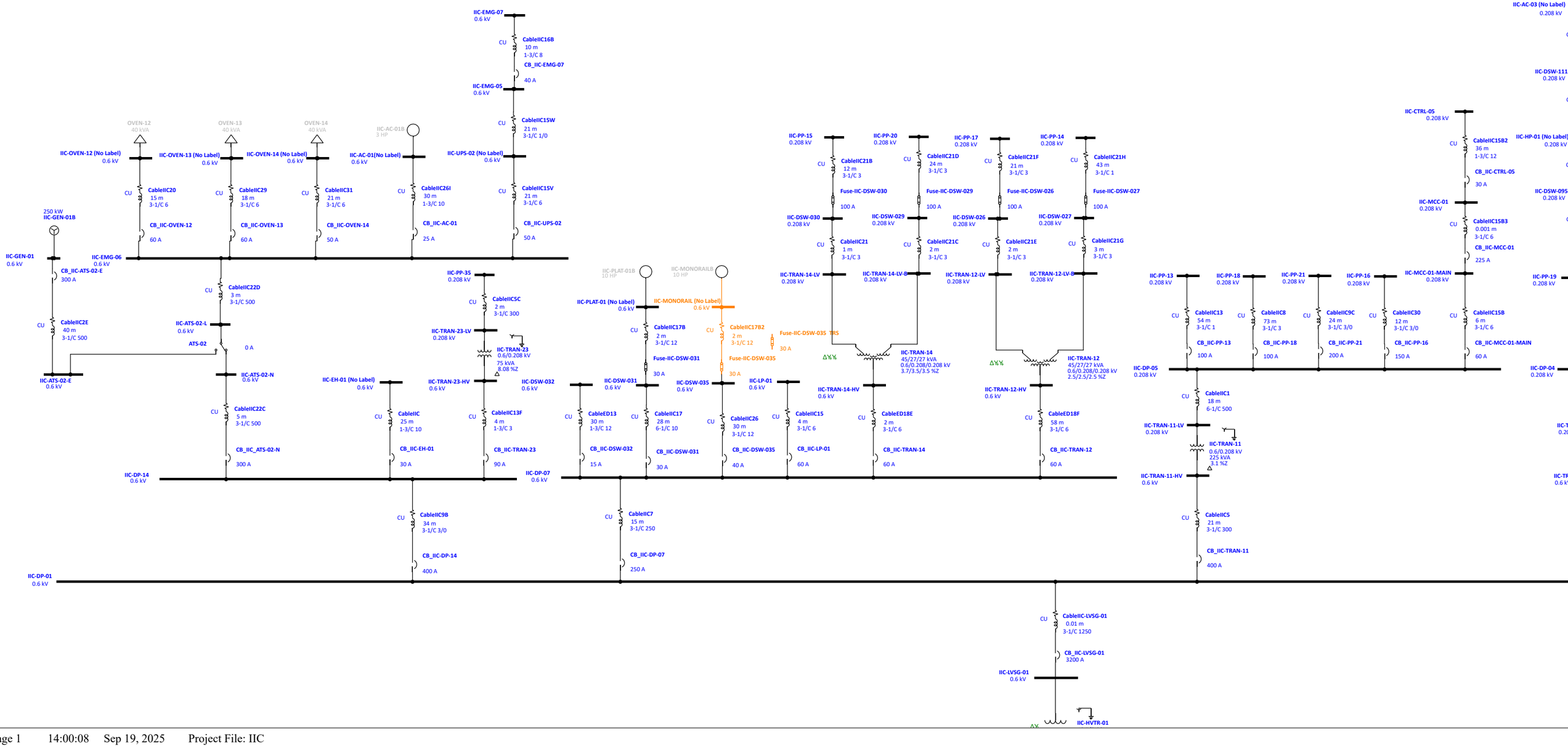



1500 kVA
9.48 %Z
ED-HVTR-01-HV
12.47 kV
FuseED-HVSG-01
100 A
ED-HVSG-01
12.47 kV
CU
CableED-HVSG-01
38 m
3-1/C 4/0
ED-FDS-01
12.47 kV
CU
CableED-FDS-01
10 m
3-1/C 4/0
MH20-EL-7C
12.47 kV
CU
CableMH20-EL-7C
93 m
3-1/C 4/0
MH06-EL-7B
12.47 kV
CU
CableMH06-EL-7B
34 m
3-1/C 4/0
MH12-EL-7B_2
12.47 kV
CU
CableMH12-EL-7B
52 m
3-1/C 4/0
MH1-EL-8B
12.47 kV
CU
CableMH1-EL-8B
55 m
3-1/C 4/0
OCR
OCR
IIC-GR-HVACB-02
600 A
MH02-EL-8B-MUN 02
12.47 kV
IIC-GR-HVACB-01
0 A
IIC-GR-TIE
0 A
MH02-EL-8B-MUN 07
12.47 kV
IIC-GR-HVACB-03
0 A
CU
CableIIC-GR-HVACB-01
120 m
3-1/C 500
MH12-EL-7B_1
12.47 kV
CU
CableMUN 02
780 m
3-1/C 750
CU
CableGR-HVACB-03
367 m
3-1/C 500
MUN 02 FEEDER
1200 A
MUN 07 FEEDER
1200 A
ME_SUB
12.47 kV
SW1
Open
0 A
SW2
0 A
ME_UTIL_Paralleled
277.684 MVAsc
12.9 kA
MUN_12_B1 MIN
107.756 MVAsc
5 kA

Arc Flash Labels for Panels

VDP_TAG	VDP_INCIDENT	VDP_WORKING	VDP_ARCFLASH	VDP_NOMINAL	VDP_PERFORMED	VDP_Limited	VDP_Restricted	VDP_Gloves	VDP_Equipment	VDP_Location	VDP_Fed From
ED-ATS-01-E	12.51 cal/cm²	610mm (24in)	2641mm (104in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Switchboard	ED-6000C	ED-GEN-01
ED-DPE-01	12.32 cal/cm²	610mm (24in)	2615mm (103in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Switchboard	ED-6000C	ATS-01-L
ED-DSW-28	6.71 cal/cm²	457mm (18in)	1340mm (53in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-6000	ED-MCC-01
ED-DSW-36	11.08 cal/cm²	457mm (18in)	1835mm (72in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-6000	ED-MCC-01
ED-GEN-01	51.82 cal/cm²	457mm (18in)	4822mm (190in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard		
ED-MCC-01	15.66 cal/cm²	457mm (18in)	2280mm (90in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	MCC	ED-6000C	ED-DPE-01
ED-TRAN-4-LV	4.91 cal/cm²	457mm (18in)	1103mm (43in)	208VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	ED-1028A	ED-DSW-34
ED-TRAN-08-HV	0.25 cal/cm²	457mm (18in)	169mm (7in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	ED-2008	ED-EMG-01
ED-VFD-01	8.15 cal/cm²	457mm (18in)	1515mm (60in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-6000	ED-DSW-28
ED-VFD-02	12.61 cal/cm²	457mm (18in)	1991mm (78in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-6000	ED-DSW-36
ED-ATS-01-N	1.04 cal/cm²	610mm (24in)	558mm (22in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Switchboard	ED-6000C	ED-DP-01
ED-DP-01	4.92 cal/cm²	610mm (24in)	1473mm (58in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Switchboard	ED-6000C	ED-LVSG-01
ED-DP-02	0.68 cal/cm²	610mm (24in)	426mm (17in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Switchboard	ED-6000F	ED-DP-01
ED-DP-05	0.87 cal/cm²	610mm (24in)	497mm (20in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Switchboard	ED-1029	ED-DP-01
ED-DP-07	0.7 cal/cm²	610mm (24in)	433mm (17in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Switchboard	ED-2008	ED-DP-01
ED-DP-08	0.8 cal/cm²	610mm (24in)	474mm (19in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Switchboard	ED-4032	ED-DP-01
ED-DSW-01	0.22 cal/cm²	457mm (18in)	157mm (6in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-1030	ED-SPT-01
ED-DSW-05	0.05 cal/cm²	457mm (18in)	60mm (2in)	208VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-3054	ED-PP-28
ED-DSW-07	0.19 cal/cm²	457mm (18in)	143mm (6in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-2008	ED-DP-07
ED-DSW-16	0.04 cal/cm²	457mm (18in)	55mm (2in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-6000	ED-MCC-01
ED-DSW-17	0.02 cal/cm²	457mm (18in)	32mm (1in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-6000	ED-MCC-01
ED-DSW-18	0.02 cal/cm²	457mm (18in)	32mm (1in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-6000	ED-MCC-01
ED-DSW-27	0.13 cal/cm²	457mm (18in)	115mm (5in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-6000	ED-MCC-01
ED-DSW-30	0.05 cal/cm²	457mm (18in)	66mm (3in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-6000	ED-MCC-01
ED-DSW-31	0.22 cal/cm²	457mm (18in)	157mm (6in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-1030	ED-SPT-01
ED-DSW-32	0.11 cal/cm²	457mm (18in)	102mm (4in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-6000	ED-MCC-01
ED-DSW-33	0.16 cal/cm²	457mm (18in)	132mm (5in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-6000	ED-MCC-01
ED-DSW-34	0.09 cal/cm²	457mm (18in)	90mm (4in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-1029	ED-EMG-02
ED-DSW-37	0.14 cal/cm²	457mm (18in)	120mm (5in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-6000	ED-SPT-02
ED-DSW-38	0.05 cal/cm²	457mm (18in)	62mm (2in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-6000	ED-MCC-01
ED-DSW-39	0.05 cal/cm²	457mm (18in)	62mm (2in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-6000	ED-MCC-01
ED-EMG-01	0.71 cal/cm²	457mm (18in)	328mm (13in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-1029	ED-DPE-01
ED-EMG-02	0.16 cal/cm²	457mm (18in)	131mm (5in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-1029	ED-EMG-01
ED-HVSG-01	2.07 cal/cm²	914mm (36in)	1296mm (51in)	12470VAC	Wednesday, August 27, 2025	1.5m (60in)	658mm (26in)	2	Switchgear	ED-6000C	ED-FDS-01
ED-HVTR-01-HV	0.11 cal/cm²	914mm (36in)	203mm (8in)	12470VAC	Wednesday, August 27, 2025	1.5m (60in)	658mm (26in)	2	Switchgear	ED-6000C	ED-HVSG-01
ED-LP-01	0.17 cal/cm²	457mm (18in)	133mm (5in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-1C06	ED-DP-05
ED-LP-02	0.09 cal/cm²	457mm (18in)	91mm (4in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-1C03	ED-DP-07
ED-LP-03	0.09 cal/cm²	457mm (18in)	90mm (4in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-1C02	ED-LP-07
ED-LP-04	0.09 cal/cm²	457mm (18in)	90mm (4in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-1C01	ED-LP-08
ED-LP-05	0.15 cal/cm²	457mm (18in)	125mm (5in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-1000	ED-DP-05
ED-LP-06	0.3 cal/cm²	457mm (18in)	192mm (8in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-1029	ED-DP-05
ED-LP-07	0.14 cal/cm²	457mm (18in)	118mm (5in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-2C02	ED-DP-07
ED-LP-08	0.11 cal/cm²	457mm (18in)	102mm (4in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-2018	ED-DP-07
ED-LP-09	0.12 cal/cm²	457mm (18in)	108mm (4in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-2030	ED-LP-01
ED-LP-10	0.08 cal/cm²	457mm (18in)	85mm (3in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-2000N2	ED-LP-05
ED-LP-11	0.1 cal/cm²	457mm (18in)	97mm (4in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-3C01	ED-DP-02
ED-LP-13	0.13 cal/cm²	457mm (18in)	113mm (4in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-3C01	ED-LP-15
ED-LP-14	0.1 cal/cm²	457mm (18in)	97mm (4in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-4C01	ED-LP-17
ED-LP-15	0.18 cal/cm²	457mm (18in)	141mm (6in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-4C04	ED-DP-08
ED-LP-16	0.12 cal/cm²	457mm (18in)	108mm (4in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-4C02	ED-DP-08
ED-LP-17	0.14 cal/cm²	457mm (18in)	121mm (5in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-5C02	ED-DP-02
ED-LP-21	0.08 cal/cm²	457mm (18in)	84mm (3in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-3000	ED-LP-16
ED-LP-22	0.14 cal/cm²	457mm (18in)	118mm (5in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-6000	ED-DP-02
ED-LP-23	0.13 cal/cm²	457mm (18in)	113mm (4in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-5C01	ED-DP-02
ED-PP-04	0.07 cal/cm²	457mm (18in)	74mm (3in)	208VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-1C04	ED-DP-04
ED-PP-11	0.12 cal/cm²	457mm (18in)	108mm (4in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-1038A	ED-DP-05
ED-SPT-01	0.24 cal/cm²	457mm (18in)	167mm (7in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-1030	ED-DP-05
ED-SPT-02	0.15 cal/cm²	457mm (18in)	122mm (5in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-6000	ED-MCC-01
ED-TRAN-01-HV	0.29 cal/cm²	457mm (18in)	186mm (7in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	ED-1029	ED-DP-05
ED-TRAN-02-HV	0.07 cal/cm²	457mm (18in)	78mm (3in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	ED-2008	ED-EMG-02
ED-TRAN-4-HV	0.07 cal/cm²	457mm (18in)	78mm (3in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	ED-1028A	ED-DSW-34
ED-TRAN-05-HV	0.13 cal/cm²	457mm (18in)	114mm (4in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	ED-4032	ED-DP-08
ED-TRAN-06-HV	0.14 cal/cm²	457mm (18in)	121mm (5in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	ED-2008	ED-DP-07
ED-TRAN-09-HV	0.1 cal/cm²	457mm (18in)	94mm (4in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	ED-2008	ED-DP-07
ED-TRAN-10-HV	0.19 cal/cm²	457mm (18in)	142mm (6in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	ED-6000F	ED-DP-02
ED-TRAN-12-HV	0.21 cal/cm²	457mm (18in)	154mm (6in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	ED-4032	ED-DP-08
ED-VFD-03	0.13 cal/cm²	457mm (18in)	113mm (4in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-6000	ED-MCC-01
ED-VFD-04	0.13 cal/cm²	457mm (18in)	115mm (5in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-6000	ED-MCC-01
ED-AC-07	2.09 cal/cm²	457mm (18in)	648mm (26in)	208VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-5009A	ED-DP-09
ED-DP-03	4.33 cal/cm²	610mm (24in)	1361mm (54in)	208VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Switchboard	ED-6000F	ED-TRAN-10
ED-DP-04	62.13 cal/cm²	610mm (24in)	7203mm (284in)	208VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Switchboard	ED-1029	ED-TRAN-01
ED-DP-06	14.49 cal/cm²	610mm (24in)	2897mm (114in)	208VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Switchboard	ED-2008	ED-TRAN-06
ED-DP-09	77.86 cal/cm²	610mm (24in)	8296mm (327in)	208VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Switchboard	ED-4032	ED-TRAN-05

ED-DP-10	13.41 cal/cm²	610mm (24in)	2759mm (109in)	208VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Switchboard	ED-4032	ED-TRAN-12
ED-DSW-06	1.98 cal/cm²	457mm (18in)	625mm (25in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-1023	ED-DP-05
ED-DSW-09	3.75 cal/cm²	457mm (18in)	933mm (37in)	208VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-2008	ED-TRAN-08
ED-DSW-40	0.58 cal/cm²	457mm (18in)	289mm (11in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-1041D	ED-DP-05
ED-DSW-41	0.58 cal/cm²	457mm (18in)	289mm (11in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-1041D	ED-DP-05
ED-LP-12	0.41 cal/cm²	457mm (18in)	233mm (9in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-3C02	ED-LP-11
ED-LP-18	0.16 cal/cm²	457mm (18in)	127mm (5in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-5C03	ED-DP-08
ED-LP-20	0.37 cal/cm²	457mm (18in)	219mm (9in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-3C01	ED-LP-23
ED-LVSG-01	42.69 cal/cm²	610mm (24in)	5695mm (224in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Switchgear	ED-6000C	ED-HVTR-01
ED-PP-01	0.6 cal/cm²	457mm (18in)	298mm (12in)	208VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-1C02	ED-DP-06
ED-PP-02	1.03 cal/cm²	457mm (18in)	416mm (16in)	208VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-1C03	ED-DP-06
ED-PP-03	0.92 cal/cm²	457mm (18in)	386mm (15in)	208VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-1C07	ED-DP-04
ED-PP-05	0.87 cal/cm²	457mm (18in)	374mm (15in)	208VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-1C06	ED-DP-04
ED-PP-06	3.26 cal/cm²	457mm (18in)	854mm (34in)	208VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-1000	ED-DP-04
ED-PP-07	1.61 cal/cm²	457mm (18in)	549mm (22in)	208VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-1000D	ED-PP-04
ED-PP-08	1.24 cal/cm²	457mm (18in)	466mm (18in)	208VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-1006	ED-PP-01
ED-PP-09	1.81 cal/cm²	457mm (18in)	591mm (23in)	208VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-1C01	ED-DP-06
ED-PP-10	3.78 cal/cm²	457mm (18in)	937mm (37in)	208VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-1033B	ED-DP-04
ED-PP-12	0.7 cal/cm²	457mm (18in)	327mm (13in)	208VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-1036D	ED-PP-03
ED-PP-13	0.73 cal/cm²	457mm (18in)	335mm (13in)	208VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-1036D	ED-PP-03
ED-PP-14	32.37 cal/cm²	457mm (18in)	3592mm (141in)	208VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-2V01	ED-TRAN-07
ED-PP-15	0.42 cal/cm²	457mm (18in)	238mm (9in)	208VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-2C02	ED-DP-06
ED-PP-16	0.53 cal/cm²	457mm (18in)	273mm (11in)	208VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-2C04	ED-DP-04
ED-PP-17	0.78 cal/cm²	457mm (18in)	349mm (14in)	208VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-2000	ED-DP-04
ED-PP-18	9.7 cal/cm²	457mm (18in)	1690mm (67in)	208VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-2000	ED-DP-06
ED-PP-19	0.45 cal/cm²	457mm (18in)	248mm (10in)	208VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-2C01	ED-DP-06
ED-PP-20	0.96 cal/cm²	457mm (18in)	397mm (16in)	208VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-2018	ED-DP-06
ED-PP-21	1.84 cal/cm²	457mm (18in)	597mm (24in)	208VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-2030C	ED-DP-04
ED-PP-23	0.59 cal/cm²	457mm (18in)	293mm (12in)	208VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-3C01	ED-DP-06
ED-PP-24	0.6 cal/cm²	457mm (18in)	295mm (12in)	208VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-3C01	ED-DP-06
ED-PP-25	0.69 cal/cm²	457mm (18in)	324mm (13in)	208VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-3C02	ED-DP-06
ED-PP-26	0.78 cal/cm²	457mm (18in)	349mm (14in)	208VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-3000	ED-DP-04
ED-PP-27	67.59 cal/cm²	457mm (18in)	5694mm (224in)	208VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-3050	ED-DP-09
ED-PP-28	66.43 cal/cm²	457mm (18in)	5633mm (222in)	208VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-3054	ED-DP-09
ED-PP-29	0.04 cal/cm²	457mm (18in)	58mm (2in)	208VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-3C05	ED-DP-10
ED-PP-30	4.54 cal/cm²	457mm (18in)	1051mm (41in)	208VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-4C01	ED-DP-03
ED-PP-31	0.69 cal/cm²	457mm (18in)	324mm (13in)	208VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-4C02	ED-DP-10
ED-PP-32	5.43 cal/cm²	457mm (18in)	1176mm (46in)	208VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-4C04	ED-DP-10
ED-PP-33	0.06 cal/cm²	457mm (18in)	72mm (3in)	208VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-4037	ED-DP-10
ED-PP-34	0.06 cal/cm²	457mm (18in)	73mm (3in)	208VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-4038	ED-DP-10
ED-PP-35	1 cal/cm²	457mm (18in)	409mm (16in)	208VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-4043	ED-DP-10
ED-PP-36	4.95 cal/cm²	457mm (18in)	1109mm (44in)	208VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-5C01	ED-DP-03
ED-PP-38	0.06 cal/cm²	457mm (18in)	70mm (3in)	208VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-5C03	ED-DP-10
ED-PP-39	1.11 cal/cm²	457mm (18in)	435mm (17in)	208VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-5007	ED-PP-38
ED-PP-40	7.1 cal/cm²	457mm (18in)	1390mm (55in)	208VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-5008	ED-DP-03
ED-PP-41	5.91 cal/cm²	457mm (18in)	1239mm (49in)	208VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-5C02	ED-DP-03
ED-PP-42	3.7 cal/cm²	457mm (18in)	925mm (36in)	208VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-5C01	ED-DP-03
ED-PP-43	7.1 cal/cm²	457mm (18in)	1390mm (55in)	208VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-6000	ED-DP-03
ED-PP-44	5.57 cal/cm²	457mm (18in)	1195mm (47in)	208VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-3050C	ED-PP-28
ED-PP-45	8.96 cal/cm²	457mm (18in)	1608mm (63in)	208VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-2C02	ED-TRAN-09
ED-PP-46	76.18 cal/cm²	457mm (18in)	6137mm (242in)	208VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-1018A	ED-DP-06
ED-PP-47	3.89 cal/cm²	457mm (18in)	954mm (38in)	208VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-2008	ED-DSW-09
ED-STUDIO-LP	4.8 cal/cm²	457mm (18in)	1088mm (43in)	208VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ED-1C07	ED-PP-03
ED-TRAN-01-LV	60.28 cal/cm²	457mm (18in)	5301mm (209in)	208VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	ED-1029	ED-DP-05
ED-TRAN-02-LV	3.95 cal/cm²	457mm (18in)	964mm (38in)	208VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	ED-2008	ED-EMG-02
ED-TRAN-05-LV	78.9 cal/cm²	457mm (18in)	6274mm (247in)	208VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	ED-4032	ED-DP-08
ED-TRAN-06-LV	13.95 cal/cm²	457mm (18in)	2121mm (84in)	208VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	ED-2008	ED-DP-07
ED-TRAN-07-HV	0.05 cal/cm²	457mm (18in)	61mm (2in)	480VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	ED-2008	ED-LP-06
ED-TRAN-07-LV	9.45 cal/cm²	457mm (18in)	1662mm (65in)	208VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	ED-2008	ED-LP-06
ED-TRAN-08-LV	2.29 cal/cm²	457mm (18in)	685mm (27in)	208VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	ED-2008	ED-EMG-01
ED-TRAN-09-LV	4.24 cal/cm²	457mm (18in)	1006mm (40in)	208VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	ED-2008	ED-DP-07
ED-TRAN-10-LV	3.84 cal/cm²	457mm (18in)	946mm (37in)	208VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	ED-6000F	ED-DP-02
ED-TRAN-12-LV	12.93 cal/cm²	457mm (18in)	2023mm (80in)	208VAC	Wednesday, August 27, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	ED-4032	ED-DP-08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IIC-AC-01B
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IIC-AC-01(No Label)
0.6 kV
IIC-UPS-02 (No Label)
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CableIIC26I
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60 A
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CB_IIC-AC-01
25 A
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CB_IIC-ATS-02-E
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2 m
3-1/C 300
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75 kVA
8.08 %Z
CableIIC2E
40 m
3-1/C 500
IIC-ATS-02-L
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0.6 kV
IIC-ATS-02-N
0.6 kV
IIC-EH-01 (No Label)
0.6 kV
IIC-TRAN-23-HV
0.6 kV
IIC-DSW-032
0.6 kV
CableIIC22C
5 m
3-1/C 500
CableIIC
25 m
1-3/C 10
CableIIC13F
4 m
1-3/C 3
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300 A
CB_IIC-EH-01
30 A
CB_IIC-TRAN-23
90 A
IIC-DP-14
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IIC-DP-07
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34 m
3-1/C 3/0
CB_IIC-DP-14
400 A
IIC-DP-01
0.6 kV
IIC-PLAT-01B
10 HP
IIC-MONORAILB
10 HP
IIC-PLAT-01 (No Label)
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IIC-MONORAIL (No Label)
0.6 kV
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2 m
3-1/C 12
CableIIC17B2
2 m
3-1/C 12
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TRS
30 A
Fuse-IIC-DSW-031
30 A
Fuse-IIC-DSW-035
30 A
IIC-DSW-031
0.6 kV
IIC-DSW-035
0.6 kV
IIC-LP-01
0.6 kV
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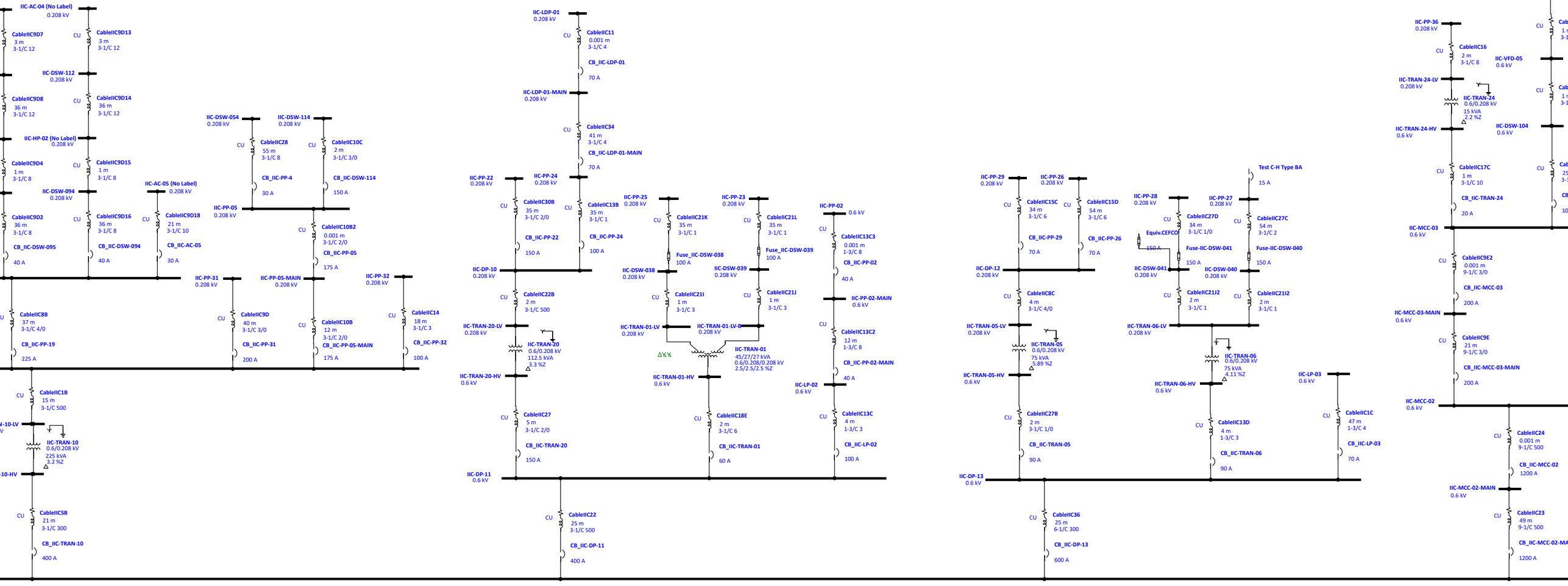
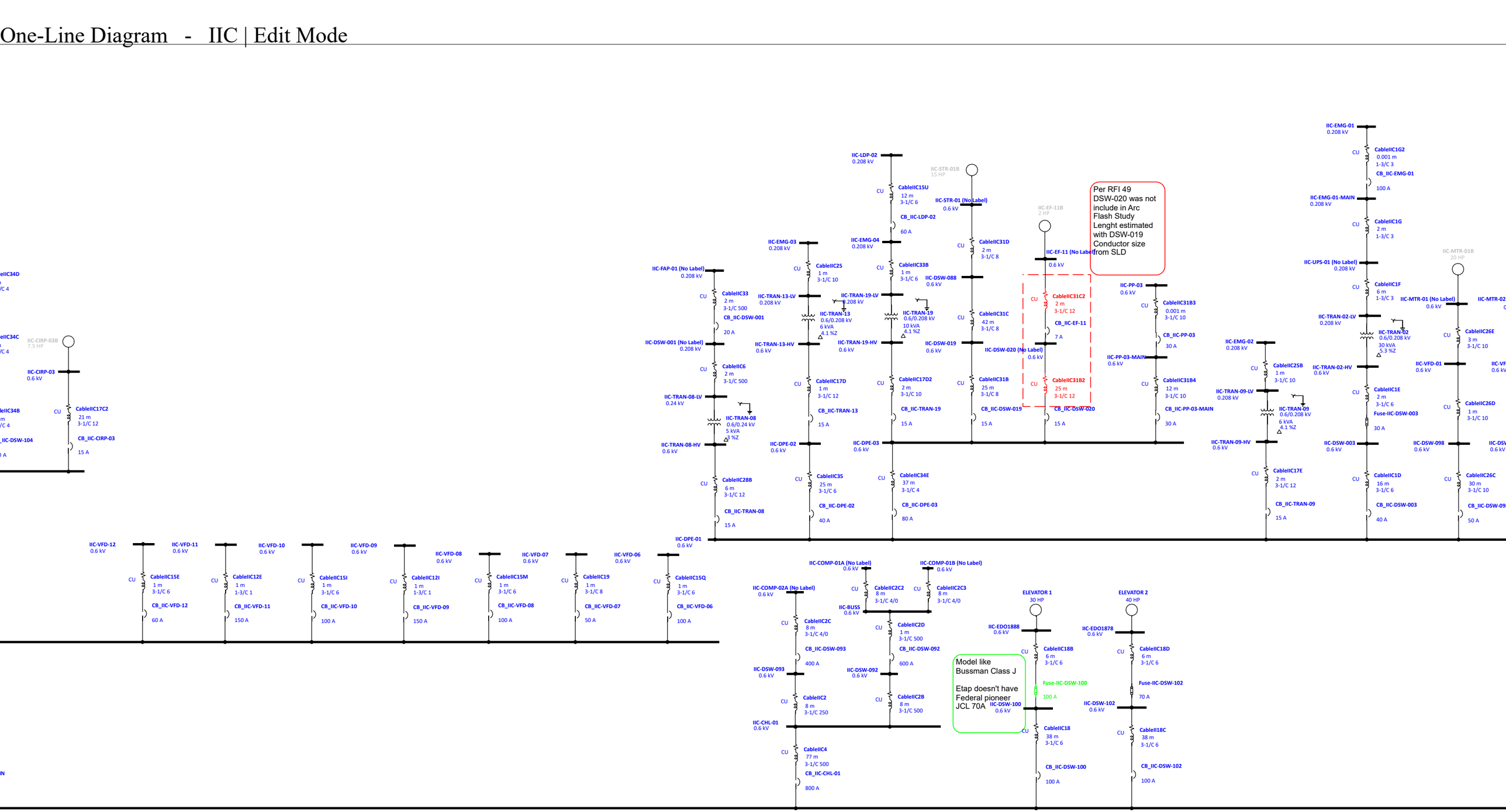
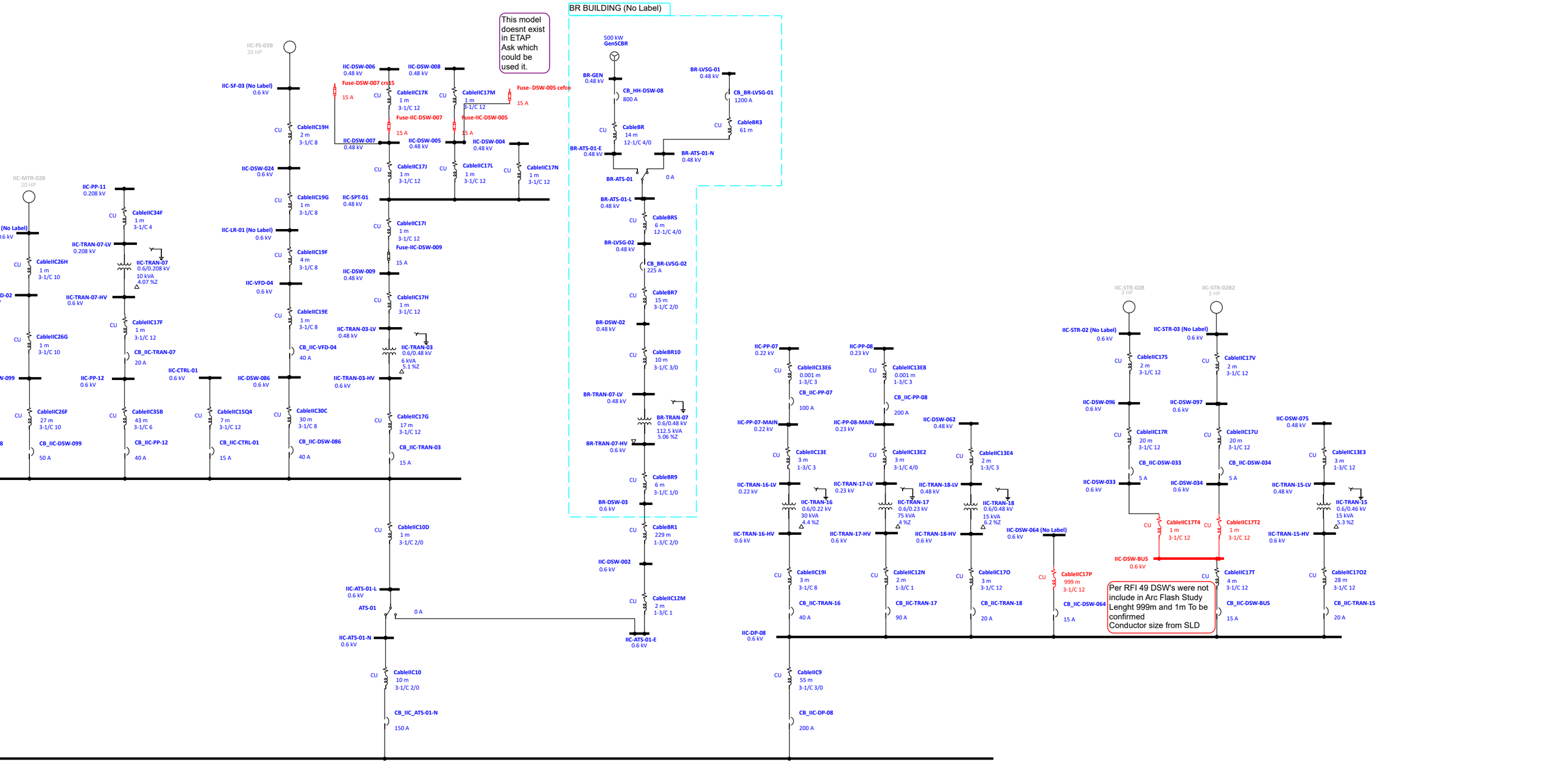
30 m
1-3/C 12
CableIIC17
28 m
6-1/C 10
CableIIC26
30 m
3-1/C 12
CableIIC15
4 m
3-1/C 6
CB_IIC-DSW-032
15 A
CB_IIC-DSW-031
30 A
CB_IIC-DSW-035
40 A
CB_IIC-LP-01
60 A
CableIIC7
15 m
3-1/C 250
CB_IIC-DP-07
250 A
IIC-PP-15
0.208 kV
IIC-PP-20
0.208 kV
IIC-PP-17
0.208 kV
IIC-PP-14
0.208 kV
CableIIC21B
12 m
3-1/C 3
CableIIC21D
24 m
3-1/C 3
CableIIC21F
21 m
3-1/C 3
CableIIC21H
43 m
3-1/C 1
Fuse-IIC-DSW-030
100 A
Fuse-IIC-DSW-029
100 A
Fuse-IIC-DSW-026
100 A
Fuse-IIC-DSW-027
100 A
IIC-DSW-030
0.208 kV
IIC-DSW-029
0.208 kV
IIC-DSW-026
0.208 kV
IIC-DSW-027
0.208 kV
CableIIC21
1 m
3-1/C 3
CableIIC21C
2 m
3-1/C 3
CableIIC21E
2 m
3-1/C 3
CableIIC21G
3 m
3-1/C 3
IIC-TRAN-14-LV
0.208 kV
IIC-TRAN-14-LV-B
0.208 kV
IIC-TRAN-12-LV
0.208 kV
IIC-TRAN-12-LV-B
0.208 kV
IIC-TRAN-14
45/27/27 kVA
0.6/0.208/0.208 kV
3.7/3.5/3.5 %Z
IIC-TRAN-12
45/27/27 kVA
0.6/0.208/0.208 kV
2.5/2.5/2.5 %Z
IIC-TRAN-14-HV
0.6 kV
IIC-TRAN-12-HV
0.6 kV
CableED18E
2 m
3-1/C 6
CableED18F
58 m
3-1/C 6
CB_IIC-TRAN-14
60 A
CB_IIC-TRAN-12
60 A
CableIIC-LVSG-01
0.01 m
3-1/C 1250
CB_IIC-LVSG-01
3200 A
IIC-LVSG-01
0.6 kV
IIC-HVTR-01
IIC-AC-03 (No Label)
0.208 kV
IIC-DSW-111
0.208 kV
IIC-CTRL-05
0.208 kV
IIC-HP-01 (No Label)
0.208 kV
CableIIC15B2
36 m
1-3/C 12
IIC-DSW-095
0.208 kV
CB_IIC-CTRL-05
30 A
IIC-MCC-01
0.208 kV
CableIIC15B3
0.001 m
3-1/C 6
CB_IIC-MCC-01
225 A
IIC-PP-13
0.208 kV
IIC-PP-18
0.208 kV
IIC-PP-21
0.208 kV
IIC-PP-16
0.208 kV
IIC-MCC-01-MAIN
0.208 kV
IIC-PP-19
0.208 kV
CableIIC13
54 m
3-1/C 1
CableIIC8
73 m
3-1/C 3
CableIIC9C
24 m
3-1/C 3/0
CableIIC30
12 m
3-1/C 3/0
CableIIC15B
6 m
3-1/C 6
CB_IIC-PP-13
100 A
CB_IIC-PP-18
100 A
CB_IIC-PP-21
200 A
CB_IIC-PP-16
150 A
CB_IIC-MCC-01-MAIN
60 A
IIC-DP-05
0.208 kV
IIC-DP-04
0.208 kV
CableIIC1
18 m
6-1/C 500
IIC-TRAN-11-LV
0.208 kV
IIC-TRAN-11
0.6/0.208 kV
225 kVA
3.1 %Z
IIC-TRAN-11-HV
0.6 kV
CableIIC5
21 m
3-1/C 300
CB_IIC-TRAN-11
400 A

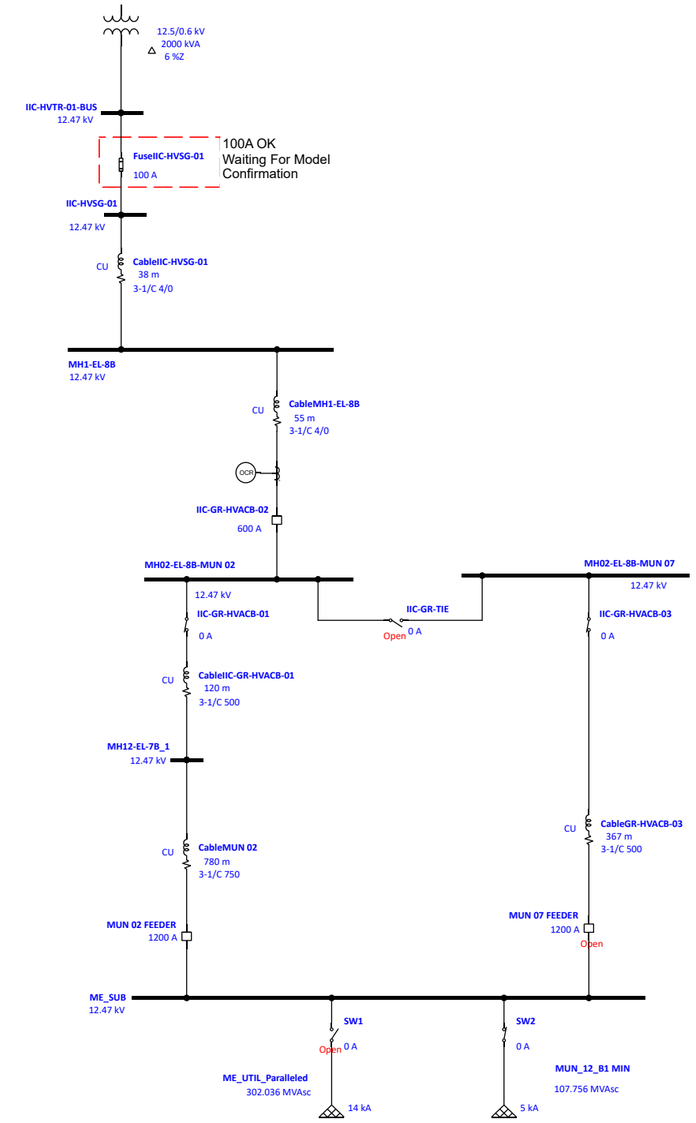
One-Line Diagram - IIC | Edit Mode




IIC-CIRP-03B
7.5 HP
IIC-CIRP-03
0.6 kV
CU
CableIIC17C2
21 m
3-1/C 12
CB_IIC-CIRP-03
15 A
IIC-DSW-104
IIC-VFD-12
0.6 kV
IIC-VFD-11
0.6 kV
IIC-VFD-10
0.6 kV
IIC-VFD-09
0.6 kV
IIC-VFD-08
0.6 kV
IIC-VFD-07
0.6 kV
IIC-VFD-06
0.6 kV
CableIIC15E
1 m
3-1/C 6
CB_IIC-VFD-12
60 A
CableIIC12E
1 m
1-3/C 1
CB_IIC-VFD-11
150 A
CableIIC15I
1 m
3-1/C 6
CB_IIC-VFD-10
100 A
CableIIC12I
1 m
1-3/C 1
CB_IIC-VFD-09
150 A
CableIIC15M
1 m
3-1/C 6
CB_IIC-VFD-08
100 A
CableIIC19
1 m
3-1/C 8
CB_IIC-VFD-07
50 A
CableIIC15Q
1 m
3-1/C 6
CB_IIC-VFD-06
100 A
IIC-DPE-01
0.6 kV
IIC-FAP-01 (No Label)
0.208 kV
CableIIC33
2 m
3-1/C 500
CB_IIC-DSW-001
20 A
IIC-DSW-001 (No Label)
0.208 kV
CableIIC6
2 m
3-1/C 500
IIC-TRAN-08-LV
0.24 kV
IIC-TRAN-08
0.6/0.24 kV
5 kVA
3 %Z
IIC-TRAN-08-HV
0.6 kV
CableIIC28B
6 m
3-1/C 12
CB_IIC-TRAN-08
15 A
IIC-EMG-03
0.208 kV
CableIIC25
1 m
3-1/C 10
IIC-TRAN-13-LV
0.208 kV
IIC-TRAN-13
0.6/0.208 kV
6 kVA
4.1 %Z
IIC-TRAN-13-HV
0.6 kV
CableIIC17D
1 m
3-1/C 12
CB_IIC-TRAN-13
15 A
IIC-DPE-02
0.6 kV
CableIIC35
25 m
3-1/C 6
CB_IIC-DPE-02
40 A
IIC-LDP-02
0.208 kV
CableIIC15U
12 m
3-1/C 6
CB_IIC-LDP-02
60 A
IIC-EMG-04
0.208 kV
CableIIC33B
1 m
3-1/C 6
IIC-TRAN-19-LV
0.208 kV
IIC-TRAN-19
0.6/0.208 kV
10 kVA
4.1 %Z
IIC-TRAN-19-HV
0.6 kV
CableIIC17D2
2 m
3-1/C 10
CB_IIC-TRAN-19
15 A
IIC-DPE-03
0.6 kV
CableIIC34E
37 m
3-1/C 4
CB_IIC-DPE-03
80 A
IIC-STR-01B
15 HP
IIC-STR-01 (No Label)
0.6 kV
CableIIC31D
2 m
3-1/C 8
IIC-DSW-088
0.6 kV
CableIIC31C
42 m
3-1/C 8
IIC-DSW-019
0.6 kV
CableIIC31B
25 m
3-1/C 8
CB_IIC-DSW-019
15 A
IIC-EF-11B
2 HP
IIC-EF-11 (No Label)
0.6 kV
CableIIC31C2
2 m
3-1/C 12
CB_IIC-EF-11
7 A
IIC-DSW-020 (No Label)
0.6 kV
CableIIC31B2
25 m
3-1/C 12
CB_IIC-DSW-020
15 A
Per RFI 49
DSW-020 was not include in Arc Flash Study
Lenght estimated with DSW-019 Conductor size from SLD
IIC-PP-03
0.6 kV
CableIIC31B3
0.001 m
3-1/C 10
CB_IIC-PP-03
30 A
IIC-PP-03-MAIN
0.6 kV
CableIIC31B4
12 m
3-1/C 10
CB_IIC-PP-03-MAIN
30 A
IIC-EMG-01
0.208 kV
CableIIC1G2
0.001 m
1-3/C 3
CB_IIC-EMG-01
100 A
IIC-EMG-01-MAIN
0.208 kV
CableIIC1G
2 m
1-3/C 3
IIC-UPS-01 (No Label)
0.208 kV
CableIIC1F
6 m
1-3/C 3
IIC-TRAN-02-LV
0.208 kV
IIC-TRAN-02
0.6/0.208 kV
30 kVA
5.3 %Z
IIC-TRAN-02-HV
0.6 kV
CableIIC1E
2 m
3-1/C 6
Fuse-IIC-DSW-003
30 A
IIC-DSW-003
0.6 kV
CableIIC1D
16 m
3-1/C 6
CB_IIC-DSW-003
40 A
IIC-MTR-01B
20 HP
IIC-MTR-01 (No Label)
0.6 kV
CableIIC26E
3 m
3-1/C 10
IIC-VFD-01
0.6 kV
CableIIC26D
1 m
3-1/C 10
IIC-DSW-098
0.6 kV
CableIIC26C
30 m
3-1/C 10
CB_IIC-DSW-09
50 A
IIC-EMG-02
0.208 kV
CableIIC25B
1 m
3-1/C 10
IIC-TRAN-09-LV
0.208 kV
IIC-TRAN-09
0.6/0.208 kV
6 kVA
4.1 %Z
IIC-TRAN-09-HV
0.6 kV
CableIIC17E
2 m
3-1/C 12
CB_IIC-TRAN-09
15 A
IIC-COMP-01A (No Label)
0.6 kV
IIC-COMP-01B (No Label)
0.6 kV
CableIIC2C2
8 m
3-1/C 4/0
IIC-BUSS
0.6 kV
IIC-COMP-02A (No Label)
0.6 kV
CableIIC2C
8 m
3-1/C 4/0
CB_IIC-DSW-093
400 A
IIC-DSW-093
0.6 kV
CableIIC2
8 m
3-1/C 250
IIC-CHL-01
0.6 kV
CableIIC4
77 m
3-1/C 500
CB_IIC-CHL-01
800 A
CableIIC2C3
8 m
3-1/C 4/0
CableIIC2D
1 m
3-1/C 500
CB_IIC-DSW-092
600 A
IIC-DSW-092
0.6 kV
CableIIC2B
8 m
3-1/C 500
Model like Bussman Class J
Etap doesn't have Federal pioneer JCL 70A
ELEVATOR 1
30 HP
IIC-EDO1888
0.6 kV
CableIIC18B
6 m
3-1/C 6
Fuse-IIC-DSW-100
100 A
IIC-DSW-100
0.6 kV
CableIIC18
38 m
3-1/C 6
CB_IIC-DSW-100
100 A
ELEVATOR 2
40 HP
IIC-EDO1878
0.6 kV
CableIIC18D
6 m
3-1/C 6
Fuse-IIC-DSW-102
70 A
IIC-DSW-102
0.6 kV
CableIII8C
38 m
3-1/C 6
CB_IIC-DSW-102
100 A

One-Line Diagram - IIC | Edit Mode




12.5/0.6 kV
2000 kVA
6 %Z
IIC-HVTR-01-BUS
12.47 kV
100A OK
Waiting For Model
Confirmation
FuseIIC-HVSG-01
100 A
IIC-HVSG-01
12.47 kV
CU
CableIIC-HVSG-01
38 m
3-1/C 4/0
MH1-EL-8B
12.47 kV
CU
CableMH1-EL-8B
55 m
3-1/C 4/0
OCR
IIC-GR-HVACB-02
600 A
MH02-EL-8B-MUN 02
12.47 kV
IIC-GR-HVACB-01
0 A
IIC-GR-TIE
Open 0 A
MH02-EL-8B-MUN 07
12.47 kV
IIC-GR-HVACB-03
0 A
CU
CableIIC-GR-HVACB-01
120 m
3-1/C 500
MH12-EL-7B_1
12.47 kV
CU
CableMUN 02
780 m
3-1/C 750
MUN 02 FEEDER
1200 A
CU
CableGR-HVACB-03
367 m
3-1/C 500
MUN 07 FEEDER
1200 A
Open
ME_SUB
12.47 kV
SW1
Open 0 A
SW2
0 A
ME_UTIL_Paralleled
302.036 MVAsc
14 kA
MUN_12_B1 MIN
107.756 MVAsc
5 kA

Arc Flash Labels for Panels

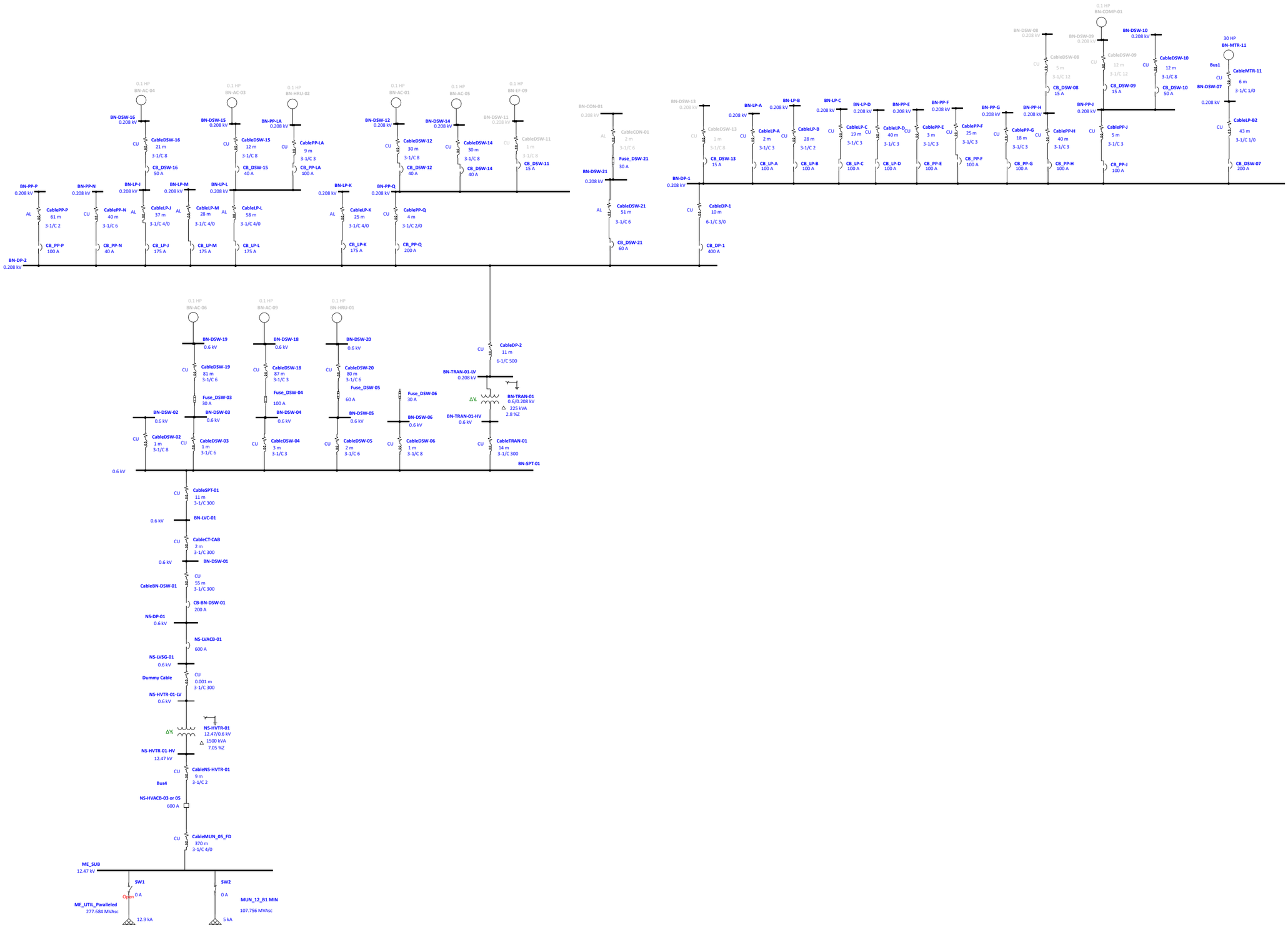
VDP_TAG	VDP_INCIDENT	VDP_WORKING	VDP_ARCFLASH	VDP_NOMINAL	VDP_PERFORMED	VDP_Limited	VDP_Restricted	VDP_Gloves	VDP_Equipment	VDP_Location	VDP_Fed From
IIC-ATS-01-E	3.48 cal/cm²	610mm (24in)	1185mm (47in)	600VAC	################	1.1m (42in)	305mm (12in)	0	Switchboard	IIC-0002	IIC-DSW-02
IIC-ATS-01-N	0.41 cal/cm²	610mm (24in)	312mm (12in)	600VAC	################	1.1m (42in)	305mm (12in)	0	Switchboard	IIC-0002	IIC-DP-01
IIC-ATS-02-E	8.81 cal/cm²	610mm (24in)	2119mm (83in)	600VAC	################	1.1m (42in)	305mm (12in)	0	Switchboard	IIC-1028E	IIC-GEN-01
IIC-ATS-02-N	0.17 cal/cm²	610mm (24in)	182mm (7in)	600VAC	################	1.1m (42in)	305mm (12in)	0	Switchboard	IIC-1028E	IIC-DP-14
IIC-BUSS	0.21 cal/cm²	457mm (18in)	154mm (6in)	600VAC	################	1.1m (42in)	305mm (12in)	0	Panelboard	IIC-ROOF	IIC-DSW-092
IIC-CHL-01	2.55 cal/cm²	457mm (18in)	732mm (29in)	600VAC	################	1.1m (42in)	305mm (12in)	0	Panelboard	IIC-ROOF	IIC-DP-01
IIC-CIRP-03	0.06 cal/cm²	457mm (18in)	69mm (3in)	600VAC	################	1.1m (42in)	305mm (12in)	0	Panelboard	IIC-4000	IIC-MCC-03
IIC-CTRL-01	0.45 cal/cm²	457mm (18in)	245mm (10in)	600VAC	################	1.1m (42in)	305mm (12in)	0	Panelboard	IIC-0002	IIC-DPE-01
IIC-CTRL-05	0.01 cal/cm²	457mm (18in)	23mm (1in)	208VAC	################	1.1m (42in)	305mm (12in)	0	Panelboard	IIC-1028E	IIC-MCC-01
IIC-DP-01	6.21 cal/cm²	610mm (24in)	1705mm (67in)	600VAC	################	1.1m (42in)	305mm (12in)	0	Switchboard	IIC-0004	IIC-HVTR-01
IIC-DP-04	124.74 cal/cm²	610mm (24in)	11142mm (439in)	208VAC	################	1.1m (42in)	305mm (12in)	0	Switchboard	IIC-1031	IIC-TRAN-10
IIC-DP-05	112.12 cal/cm²	610mm (24in)	10422mm (410in)	208VAC	################	1.1m (42in)	305mm (12in)	0	Switchboard	IIC-1031	IIC-TRAN-11
IIC-DP-07	0.23 cal/cm²	610mm (24in)	218mm (9in)	600VAC	################	1.1m (42in)	305mm (12in)	0	Switchboard	IIC-1031	IIC-DP-01
IIC-DP-08	0.23 cal/cm²	610mm (24in)	219mm (9in)	600VAC	################	1.1m (42in)	305mm (12in)	0	Switchboard	IIC-1028F	IIC-DP-01
IIC-DP-10	35.85 cal/cm²	610mm (24in)	5106mm (201in)	208VAC	################	1.1m (42in)	305mm (12in)	0	Switchboard	IIC-2019	IIC-TRAN-20
IIC-DP-11	0.2 cal/cm²	610mm (24in)	197mm (8in)	600VAC	################	1.1m (42in)	305mm (12in)	0	Switchboard	IIC-2019	IIC-DP-01
IIC-DP-12	24.95 cal/cm²	610mm (24in)	4069mm (160in)	208VAC	################	1.1m (42in)	305mm (12in)	0	Switchboard	IIC-3071	IIC-TRAN-05
IIC-DP-13	0.28 cal/cm²	610mm (24in)	243mm (10in)	600VAC	################	1.1m (42in)	305mm (12in)	0	Switchboard	IIC-3071	IIC-DP-01
IIC-DP-14	0.18 cal/cm²	610mm (24in)	186mm (7in)	600VAC	################	1.1m (42in)	305mm (12in)	0	Switchboard	IIC-1028E	IIC-DP-01
IIC-DPE-01	3.49 cal/cm²	610mm (24in)	1186mm (47in)	600VAC	################	1.1m (42in)	305mm (12in)	0	Switchboard	IIC-0002	IIC-ATS-01
IIC-DPE-02	0.99 cal/cm²	610mm (24in)	537mm (21in)	600VAC	################	1.1m (42in)	305mm (12in)	0	Switchboard	IIC-1031	IIC-DPE-01
IIC-DPE-03	3.69 cal/cm²	610mm (24in)	1230mm (48in)	600VAC	################	1.1m (42in)	305mm (12in)	0	Switchboard	IIC-2019	IIC-DPE-01
IIC-DSW-002	4.95 cal/cm²	457mm (18in)	1109mm (44in)	600VAC	################	1.1m (42in)	305mm (12in)	0	Panelboard	IIC-0002	BR-DSW-03
IIC-DSW-003	1.35 cal/cm²	457mm (18in)	490mm (19in)	600VAC	################	1.1m (42in)	305mm (12in)	0	Panelboard	IIC-0002	IIC-DPE-01
IIC-DSW-004	2.96 cal/cm²	457mm (18in)	804mm (32in)	480VAC	################	1.1m (42in)	305mm (12in)	0	Panelboard	IIC-0005	IIC-SPT-01
IIC-DSW-005	2.96 cal/cm²	457mm (18in)	804mm (32in)	480VAC	################	1.1m (42in)	305mm (12in)	0	Panelboard	IIC-0005	IIC-SPT-01
IIC-DSW-006	0.02 cal/cm²	457mm (18in)	37mm (1in)	480VAC	################	1.1m (42in)	305mm (12in)	0	Panelboard	IIC-0005	IIC-DSW-007
IIC-DSW-007	2.96 cal/cm²	457mm (18in)	804mm (32in)	480VAC	################	1.1m (42in)	305mm (12in)	0	Panelboard	IIC-0005	IIC-SPT-01
IIC-DSW-008	0.02 cal/cm²	457mm (18in)	37mm (1in)	480VAC	################	1.1m (42in)	305mm (12in)	0	Panelboard	IIC-0005	IIC-DSW-005
IIC-DSW-009	3.35 cal/cm²	457mm (18in)	869mm (34in)	480VAC	################	1.1m (42in)	305mm (12in)	0	Panelboard	IIC-0005	IIC-TRAN-03
IIC-DSW-019	0.56 cal/cm²	457mm (18in)	280mm (11in)	600VAC	################	1.1m (42in)	305mm (12in)	0	Panelboard	IIC-4000	IIC-DPE-03
IIC-DSW-024	1.55 cal/cm²	457mm (18in)	534mm (21in)	600VAC	################	1.1m (42in)	305mm (12in)	0	Panelboard	IIC-ROOF	IIC-LR-01
IIC-DSW-026	14.45 cal/cm²	457mm (18in)	2168mm (85in)	208VAC	################	1.1m (42in)	305mm (12in)	0	Panelboard	IIC-1039	IIC-TRAN-12
IIC-DSW-027	14.86 cal/cm²	457mm (18in)	2207mm (87in)	208VAC	################	1.1m (42in)	305mm (12in)	0	Panelboard	IIC-1039	IIC-TRAN-12
IIC-DSW-029	15.96 cal/cm²	457mm (18in)	2307mm (91in)	208VAC	################	1.1m (42in)	305mm (12in)	0	Panelboard	IIC-1031	IIC-TRAN-14
IIC-DSW-030	14.59 cal/cm²	457mm (18in)	2182mm (86in)	208VAC	################	1.1m (42in)	305mm (12in)	0	Panelboard	IIC-1031	IIC-TRAN-14
IIC-DSW-031	0.14 cal/cm²	457mm (18in)	118mm (5in)	600VAC	################	1.1m (42in)	305mm (12in)	0	Panelboard	IIC-1028F	IIC-DP-07
IIC-DSW-032	0.06 cal/cm²	457mm (18in)	69mm (3in)	600VAC	################	1.1m (42in)	305mm (12in)	0	Panelboard	IIC-1028F	IIC-DP-07
IIC-DSW-033	0.15 cal/cm²	457mm (18in)	123mm (5in)	600VAC	################	1.1m (42in)	305mm (12in)	0	Panelboard	IIC-1028F	IIC-DP-08
IIC-DSW-034	0.15 cal/cm²	457mm (18in)	123mm (5in)	600VAC	################	1.1m (42in)	305mm (12in)	0	Panelboard	IIC-1028F	IIC-DP-08
IIC-DSW-035	0.08 cal/cm²	457mm (18in)	81mm (3in)	600VAC	################	1.1m (42in)	305mm (12in)	0	Panelboard	IIC-1028F	IIC-DP-07
IIC-DSW-038	9.07 cal/cm²	457mm (18in)	1621mm (64in)	208VAC	################	1.1m (42in)	305mm (12in)	0	Panelboard	IIC-2019	IIC-TRAN-01
IIC-DSW-039	9.07 cal/cm²	457mm (18in)	1621mm (64in)	208VAC	################	1.1m (42in)	305mm (12in)	0	Panelboard	IIC-2019	IIC-TRAN-01
IIC-DSW-040	20.71 cal/cm²	457mm (18in)	2716mm (107in)	208VAC	################	1.1m (42in)	305mm (12in)	0	Panelboard	IIC-3071	IIC-TRAN-06
IIC-DSW-041	20.71 cal/cm²	457mm (18in)	2716mm (107in)	208VAC	################	1.1m (42in)	305mm (12in)	0	Panelboard	IIC-3071	IIC-TRAN-06
IIC-DSW-054	1.44 cal/cm²	457mm (18in)	513mm (20in)	208VAC	################	1.1m (42in)	305mm (12in)	0	Panelboard		IIC-PP-05
IIC-DSW-062	1.09 cal/cm²	457mm (18in)	431mm (17in)	480VAC	################	1.1m (42in)	305mm (12in)	0	Panelboard	IIC-1028F	IIC-TRAN-18
IIC-DSW-075	1.07 cal/cm²	457mm (18in)	426mm (17in)	480VAC	################	1.1m (42in)	305mm (12in)	0	Panelboard	IIC-1028	IIC-TRAN-15
IIC-DSW-086	1.51 cal/cm²	457mm (18in)	524mm (21in)	600VAC	################	1.1m (42in)	305mm (12in)	0	Panelboard	IIC-0005	IIC-DPE-01
IIC-DSW-088	0.74 cal/cm²	457mm (18in)	334mm (13in)	600VAC	################	1.1m (42in)	305mm (12in)	0	Panelboard	IIC-ROOF	IIC-DSW-019
IIC-DSW-092	2.41 cal/cm²	457mm (18in)	708mm (28in)	600VAC	################	1.1m (42in)	305mm (12in)	0	Panelboard	IIC-ROOF	IIC-CHL-01
IIC-DSW-093	2.38 cal/cm²	457mm (18in)	702mm (28in)	600VAC	################	1.1m (42in)	305mm (12in)	0	Panelboard	IIC-ROOF	IIC-CHL-01
IIC-DSW-094	2.22 cal/cm²	457mm (18in)	671mm (26in)	208VAC	################	1.1m (42in)	305mm (12in)	0	Panelboard	IIC-ROOF	IIC-PP-19
IIC-DSW-095	2.22 cal/cm²	457mm (18in)	671mm (26in)	208VAC	################	1.1m (42in)	305mm (12in)	0	Panelboard	IIC-ROOF	IIC-PP-19
IIC-DSW-096	0.03 cal/cm²	457mm (18in)	48mm (2in)	600VAC	################	1.1m (42in)	305mm (12in)	0	Panelboard	IIC-1028F	IIC-DSW-033
IIC-DSW-097	0.03 cal/cm²	457mm (18in)	48mm (2in)	600VAC	################	1.1m (42in)	305mm (12in)	0	Panelboard	IIC-1028F	IIC-DSW-034
IIC-DSW-098	2.65 cal/cm²	457mm (18in)	749mm (29in)	600VAC	################	1.1m (42in)	305mm (12in)	0	Panelboard	IIC-0002	IIC-DPE-01

IIC-DSW-099	2.61 cal/cm²	457mm (18in)	741mm (29in)	600VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-0002	IIC-DPE-01
IIC-DSW-100	0.14 cal/cm²	457mm (18in)	121mm (5in)	600VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-0001	IIC-DP-01
IIC-DSW-102	0.14 cal/cm²	457mm (18in)	122mm (5in)	600VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-0001	IIC-DP-01
IIC-DSW-104	0.27 cal/cm²	457mm (18in)	179mm (7in)	600VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-4000	IIC-MCC-03
IIC-DSW-111	5.65 cal/cm²	457mm (18in)	1205mm (47in)	208VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-1C05	IIC-PP-19
IIC-DSW-112	5.65 cal/cm²	457mm (18in)	1205mm (47in)	208VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-1C05	IIC-PP-19
IIC-DSW-114	0.11 cal/cm²	457mm (18in)	104mm (4in)	208VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-1028L	IIC-PP-05
IIC-DSW-BUS	0.17 cal/cm²	457mm (18in)	133mm (5in)	600VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-1028F	IIC-DP-08
IIC-EDO1878	0.08 cal/cm²	457mm (18in)	85mm (3in)	600VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-0001	IIC-DSW-102
IIC-EDO1888	0.08 cal/cm²	457mm (18in)	84mm (3in)	600VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-0001	IIC-DSW-100
IIC-EMG-01	9.71 cal/cm²	457mm (18in)	1691mm (67in)	208VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-0002	IIC-UPS-01
IIC-EMG-01-MAIN	9.71 cal/cm²	457mm (18in)	1691mm (67in)	208VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-0002	IIC-UPS-01
IIC-EMG-02	12.4 cal/cm²	457mm (18in)	1971mm (78in)	208VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-0002	IIC-TRAN-09
IIC-EMG-03	12.55 cal/cm²	457mm (18in)	1986mm (78in)	208VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-1031	IIC-TRAN-13
IIC-EMG-04	7.32 cal/cm²	457mm (18in)	1417mm (56in)	208VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-2019	IIC-TRAN-19
IIC-EMG-05	1.67 cal/cm²	457mm (18in)	559mm (22in)	600VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-1031	IIC-UPS-02
IIC-EMG-06	13.07 cal/cm²	457mm (18in)	2036mm (80in)	600VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-1028E	IIC-ATS-02
IIC-EMG-07	1.1 cal/cm²	457mm (18in)	429mm (17in)	600VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-GR	IIC-EMG-05
IIC-GEN-01	29.67 cal/cm²	457mm (18in)	3402mm (134in)	600VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard		
IIC-HVSG-01	1.1 cal/cm²	914mm (36in)	864mm (34in)	12470VAC	################ 1.5m (60in)	658mm (26in)	2	Switchgear	IIC-0004	IIC-GR-HVACB-02
IIC-HVTR-01-BUS	0.13 cal/cm²	914mm (36in)	223mm (9in)	12470VAC	################ 1.5m (60in)	658mm (26in)	2	Switchgear	IIC-0004	IIC-GR-HVACB-02
IIC-LDP-01	2.43 cal/cm²	457mm (18in)	710mm (28in)	208VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-3060A	IIC-PP-24
IIC-LDP-01-MAIN	4.27 cal/cm²	457mm (18in)	1011mm (40in)	208VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-3060A	IIC-PP-24
IIC-LDP-02	4.9 cal/cm²	610mm (24in)	1469mm (58in)	208VAC	################ 1.1m (42in)	305mm (12in)	0	Switchboard	IIC-3060A	IIC-EMG-04
IIC-LP-01	0.3 cal/cm²	457mm (18in)	190mm (7in)	600VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-1031	IIC-DP-07
IIC-LP-02	0.27 cal/cm²	457mm (18in)	181mm (7in)	600VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-2019	IIC-DP-11
IIC-LP-03	0.18 cal/cm²	457mm (18in)	137mm (5in)	600VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-3C03	IIC-DP-13
IIC-LVSG-01	7.49 cal/cm²	610mm (24in)	1916mm (75in)	600VAC	################ 1.1m (42in)	305mm (12in)	0	Switchgear	IIC-0004	IIC-HVTR-01
IIC-MCC-01	0.12 cal/cm²	457mm (18in)	109mm (4in)	208VAC	################ 1.1m (42in)	305mm (12in)	0	MCC	IIC-1031	IIC-DP-05
IIC-MCC-01-MAIN	0.12 cal/cm²	457mm (18in)	109mm (4in)	208VAC	################ 1.1m (42in)	305mm (12in)	0	MCC	IIC-1031	IIC-DP-05
IIC-MCC-02	3.27 cal/cm²	457mm (18in)	856mm (34in)	600VAC	################ 1.1m (42in)	305mm (12in)	0	MCC	IIC-4000	IIC-DP-01
IIC-MCC-02-MAIN	3.63 cal/cm²	457mm (18in)	914mm (36in)	600VAC	################ 1.1m (42in)	305mm (12in)	0	MCC	IIC-4000	IIC-DP-01
IIC-MCC-03	0.59 cal/cm²	457mm (18in)	293mm (12in)	600VAC	################ 1.1m (42in)	305mm (12in)	0	MCC	IIC-4000	IIC-MCC-02
IIC-MCC-03-MAIN	0.59 cal/cm²	457mm (18in)	293mm (12in)	600VAC	################ 1.1m (42in)	305mm (12in)	0	MCC	IIC-4000	IIC-MCC-02
IIC-PP-02	0.18 cal/cm²	457mm (18in)	140mm (6in)	600VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-3060A	IIC-LP-02
IIC-PP-02-MAIN	0.19 cal/cm²	457mm (18in)	144mm (6in)	600VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-3060A	IIC-LP-02
IIC-PP-03	0.49 cal/cm²	457mm (18in)	258mm (10in)	600VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-3060A	IIC-DPE-03
IIC-PP-03-MAIN	1.53 cal/cm²	457mm (18in)	531mm (21in)	600VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-3060A	IIC-DPE-03
IIC-PP-05	0.12 cal/cm²	457mm (18in)	106mm (4in)	208VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-1028L	IIC-DP-04
IIC-PP-05-MAIN	0.15 cal/cm²	457mm (18in)	127mm (5in)	208VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-1028L	IIC-DP-04
IIC-PP-07	3.63 cal/cm²	457mm (18in)	914mm (36in)	220VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-1028F	IIC-TRAN-16
IIC-PP-07-MAIN	6.18 cal/cm²	457mm (18in)	1274mm (50in)	220VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-1028F	IIC-TRAN-16
IIC-PP-08	11.64 cal/cm²	457mm (18in)	1894mm (75in)	230VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-1028F	IIC-TRAN-17
IIC-PP-08-MAIN	11.64 cal/cm²	457mm (18in)	1894mm (75in)	230VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-1028F	IIC-TRAN-17
IIC-PP-11	8.44 cal/cm²	457mm (18in)	1550mm (61in)	208VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-3071	IIC-TRAN-07
IIC-PP-12	1.4 cal/cm²	457mm (18in)	501mm (20in)	600VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-3071	IIC-DPE-01
IIC-PP-13	2.34 cal/cm²	457mm (18in)	695mm (27in)	208VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-1C03	IIC-DP-05
IIC-PP-14	0.1 cal/cm²	457mm (18in)	99mm (4in)	208VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-1C03	IIC-DSW-027
IIC-PP-15	0.04 cal/cm²	457mm (18in)	54mm (2in)	208VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-1C04	IIC-DSW-030
IIC-PP-16	0.14 cal/cm²	457mm (18in)	119mm (5in)	208VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-1C04	IIC-DP-05
IIC-PP-17	0.07 cal/cm²	457mm (18in)	74mm (3in)	208VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-1C02	IIC-DSW-026
IIC-PP-18	10.39 cal/cm²	457mm (18in)	1764mm (69in)	208VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-1C02	IIC-DP-05
IIC-PP-19	20.97 cal/cm²	457mm (18in)	2738mm (108in)	208VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-1C05	IIC-DP-04
IIC-PP-20	0.08 cal/cm²	457mm (18in)	85mm (3in)	208VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-1C06	IIC-DSW-029
IIC-PP-21	15.97 cal/cm²	457mm (18in)	2309mm (91in)	208VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-1C06	IIC-DP-05
IIC-PP-22	0.1 cal/cm²	457mm (18in)	96mm (4in)	208VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-2C03	IIC-DP-10
IIC-PP-23	0.04 cal/cm²	457mm (18in)	56mm (2in)	208VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-2C03	IIC-DSW-039
IIC-PP-24	0.35 cal/cm²	457mm (18in)	212mm (8in)	208VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-2C05	IIC-DP-10
IIC-PP-25	0.04 cal/cm²	457mm (18in)	56mm (2in)	208VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-2C05	IIC-DSW-038
IIC-PP-26	8.5 cal/cm²	457mm (18in)	1556mm (61in)	208VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-3C02	IIC-DP-12
IIC-PP-27	26.1 cal/cm²	457mm (18in)	3140mm (124in)	208VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-3C02	IIC-DSW-040

IIC-PP-28	1.14 cal/cm²	457mm (18in)	442mm (17in)	208VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-3C04	IIC-DSW-041
IIC-PP-29	5.77 cal/cm²	457mm (18in)	1220mm (48in)	208VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-3C04	IIC-DP-12
IIC-PP-31	18.01 cal/cm²	457mm (18in)	2489mm (98in)	208VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-1028G	IIC-DP-04
IIC-PP-32	0.1 cal/cm²	457mm (18in)	96mm (4in)	208VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-1028D	IIC-DP-04
IIC-PP-35	50.75 cal/cm²	457mm (18in)	4759mm (187in)	208VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-1028E	IIC-TRAN-23
IIC-PP-36	2.77 cal/cm²	457mm (18in)	772mm (30in)	208VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-4000	IIC-TRAN-24
IIC-SPT-01	2.95 cal/cm²	457mm (18in)	802mm (32in)	480VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-0005	IIC-DSW-009
IIC-TRAN-01-HV	0.24 cal/cm²	457mm (18in)	165mm (6in)	600VAC	################ 1.1m (42in)	305mm (12in)	0	Cable Bus	IIC-2019	IIC-DP-11
IIC-TRAN-01-LV	5.77 cal/cm²	457mm (18in)	1221mm (48in)	208VAC	################ 1.1m (42in)	305mm (12in)	0	Cable Bus	IIC-2019	IIC-DP-11
IIC-TRAN-01-LV-B	5.77 cal/cm²	457mm (18in)	1221mm (48in)	208VAC	################ 1.1m (42in)	305mm (12in)	0	Cable Bus	IIC-2019	IIC-DP-11
IIC-TRAN-02-HV	0.14 cal/cm²	457mm (18in)	121mm (5in)	600VAC	################ 1.1m (42in)	305mm (12in)	0	Cable Bus	IIC-0002	IIC-DSW-003
IIC-TRAN-02-LV	6.29 cal/cm²	457mm (18in)	1288mm (51in)	208VAC	################ 1.1m (42in)	305mm (12in)	0	Cable Bus	IIC-0002	IIC-DSW-003
IIC-TRAN-03-HV	0.42 cal/cm²	457mm (18in)	232mm (9in)	600VAC	################ 1.1m (42in)	305mm (12in)	0	Cable Bus	IIC-0005	IIC-DPE-01
IIC-TRAN-03-LV	2.49 cal/cm²	457mm (18in)	722mm (28in)	480VAC	################ 1.1m (42in)	305mm (12in)	0	Cable Bus	IIC-0005	IIC-DPE-01
IIC-TRAN-05-HV	0.35 cal/cm²	457mm (18in)	209mm (8in)	600VAC	################ 1.1m (42in)	305mm (12in)	0	Cable Bus	IIC-3071	IIC-DP-13
IIC-TRAN-05-LV	21.87 cal/cm²	457mm (18in)	2811mm (111in)	208VAC	################ 1.1m (42in)	305mm (12in)	0	Cable Bus	IIC-3071	IIC-DP-13
IIC-TRAN-06-HV	0.32 cal/cm²	457mm (18in)	201mm (8in)	600VAC	################ 1.1m (42in)	305mm (12in)	0	Cable Bus	IIC-3071	IIC-DP-13
IIC-TRAN-06-LV	12.69 cal/cm²	457mm (18in)	1999mm (79in)	208VAC	################ 1.1m (42in)	305mm (12in)	0	Cable Bus	IIC-3071	IIC-DP-13
IIC-TRAN-07-HV	0.44 cal/cm²	457mm (18in)	242mm (10in)	600VAC	################ 1.1m (42in)	305mm (12in)	0	Cable Bus	IIC-3071	IIC-PP-12
IIC-TRAN-07-LV	5.68 cal/cm²	457mm (18in)	1209mm (48in)	208VAC	################ 1.1m (42in)	305mm (12in)	0	Cable Bus	IIC-3071	IIC-PP-12
IIC-TRAN-08-HV	0.3 cal/cm²	457mm (18in)	186mm (7in)	600VAC	################ 1.1m (42in)	305mm (12in)	0	Cable Bus	IIC-0002	IIC-DPE-01
IIC-TRAN-08-LV	5.8 cal/cm²	457mm (18in)	1224mm (48in)	240VAC	################ 1.1m (42in)	305mm (12in)	0	Cable Bus	IIC-0002	IIC-DPE-01
IIC-TRAN-09-HV	0.32 cal/cm²	457mm (18in)	201mm (8in)	600VAC	################ 1.1m (42in)	305mm (12in)	0	Cable Bus	IIC-0002	IIC-DPE-01
IIC-TRAN-09-LV	8.66 cal/cm²	457mm (18in)	1574mm (62in)	208VAC	################ 1.1m (42in)	305mm (12in)	0	Cable Bus	IIC-0002	IIC-DPE-01
IIC-TRAN-10-HV	0.26 cal/cm²	457mm (18in)	174mm (7in)	600VAC	################ 1.1m (42in)	305mm (12in)	0	Cable Bus	IIC-0004	IIC-DP-01
IIC-TRAN-10-LV	96.25 cal/cm²	457mm (18in)	7104mm (280in)	208VAC	################ 1.1m (42in)	305mm (12in)	0	Cable Bus	IIC-0004	IIC-DP-01
IIC-TRAN-11-HV	0.26 cal/cm²	457mm (18in)	174mm (7in)	600VAC	################ 1.1m (42in)	305mm (12in)	0	Cable Bus	IIC-0004	IIC-DP-01
IIC-TRAN-11-LV	94.15 cal/cm²	457mm (18in)	7007mm (276in)	208VAC	################ 1.1m (42in)	305mm (12in)	0	Cable Bus	IIC-0004	IIC-DP-01
IIC-TRAN-12-HV	0.08 cal/cm²	457mm (18in)	85mm (3in)	600VAC	################ 1.1m (42in)	305mm (12in)	0	Cable Bus	IIC-1039	IIC-DP-07
IIC-TRAN-12-LV	9.24 cal/cm²	457mm (18in)	1639mm (65in)	208VAC	################ 1.1m (42in)	305mm (12in)	0	Cable Bus	IIC-1039	IIC-DP-07
IIC-TRAN-12-LV-B	9.24 cal/cm²	457mm (18in)	1639mm (65in)	208VAC	################ 1.1m (42in)	305mm (12in)	0	Cable Bus	IIC-1039	IIC-DP-07
IIC-TRAN-13-HV	0.32 cal/cm²	457mm (18in)	195mm (8in)	600VAC	################ 1.1m (42in)	305mm (12in)	0	Cable Bus	IIC-1031	IIC-DPE-02
IIC-TRAN-13-LV	8.76 cal/cm²	457mm (18in)	1586mm (62in)	208VAC	################ 1.1m (42in)	305mm (12in)	0	Cable Bus	IIC-1031	IIC-DPE-02
IIC-TRAN-14-HV	0.27 cal/cm²	457mm (18in)	180mm (7in)	600VAC	################ 1.1m (42in)	305mm (12in)	0	Cable Bus	IIC-1031	IIC-DP-07
IIC-TRAN-14-LV	9.71 cal/cm²	457mm (18in)	1691mm (67in)	208VAC	################ 1.1m (42in)	305mm (12in)	0	Cable Bus	IIC-1031	IIC-DP-07
IIC-TRAN-14-LV-B	10.46 cal/cm²	457mm (18in)	1772mm (70in)	208VAC	################ 1.1m (42in)	305mm (12in)	0	Cable Bus	IIC-1031	IIC-DP-07
IIC-TRAN-15-HV	0.03 cal/cm²	457mm (18in)	48mm (2in)	600VAC	################ 1.1m (42in)	305mm (12in)	0	Cable Bus	IIC-1028F	IIC-DP-08
IIC-TRAN-15-LV	0.83 cal/cm²	457mm (18in)	362mm (14in)	480VAC	################ 1.1m (42in)	305mm (12in)	0	Cable Bus	IIC-1028F	IIC-DP-08
IIC-TRAN-16-HV	0.22 cal/cm²	457mm (18in)	159mm (6in)	600VAC	################ 1.1m (42in)	305mm (12in)	0	Cable Bus	IIC-1028F	IIC-DP-08
IIC-TRAN-16-LV	4.42 cal/cm²	457mm (18in)	1033mm (41in)	220VAC	################ 1.1m (42in)	305mm (12in)	0	Cable Bus	IIC-1028F	IIC-DP-08
IIC-TRAN-17-HV	0.25 cal/cm²	457mm (18in)	173mm (7in)	600VAC	################ 1.1m (42in)	305mm (12in)	0	Cable Bus	IIC-1028F	IIC-DP-08
IIC-TRAN-17-LV	8.69 cal/cm²	457mm (18in)	1578mm (62in)	230VAC	################ 1.1m (42in)	305mm (12in)	0	Cable Bus	IIC-1028F	IIC-DP-08
IIC-TRAN-18-HV	0.15 cal/cm²	457mm (18in)	125mm (5in)	600VAC	################ 1.1m (42in)	305mm (12in)	0	Cable Bus	IIC-1028F	IIC-DP-08
IIC-TRAN-18-LV	0.83 cal/cm²	457mm (18in)	364mm (14in)	480VAC	################ 1.1m (42in)	305mm (12in)	0	Cable Bus	IIC-1028F	IIC-DP-08
IIC-TRAN-19-HV	0.32 cal/cm²	457mm (18in)	196mm (8in)	600VAC	################ 1.1m (42in)	305mm (12in)	0	Cable Bus	IIC-2019	IIC-DPE-03
IIC-TRAN-19-LV	5.23 cal/cm²	457mm (18in)	1148mm (45in)	208VAC	################ 1.1m (42in)	305mm (12in)	0	Cable Bus	IIC-2019	IIC-DPE-03
IIC-TRAN-20-HV	0.24 cal/cm²	457mm (18in)	166mm (7in)	600VAC	################ 1.1m (42in)	305mm (12in)	0	Cable Bus	IIC-3071	IIC-DP-11
IIC-TRAN-20-LV	26.97 cal/cm²	457mm (18in)	3205mm (126in)	208VAC	################ 1.1m (42in)	305mm (12in)	0	Cable Bus	IIC-3071	IIC-DP-11
IIC-TRAN-23-HV	0.21 cal/cm²	457mm (18in)	153mm (6in)	600VAC	################ 1.1m (42in)	305mm (12in)	0	Cable Bus	IIC-1028E	IIC-DP-14
IIC-TRAN-23-LV	32.55 cal/cm²	457mm (18in)	3605mm (142in)	208VAC	################ 1.1m (42in)	305mm (12in)	0	Cable Bus	IIC-1028E	IIC-DP-14
IIC-TRAN-24-HV	0.43 cal/cm²	457mm (18in)	239mm (9in)	600VAC	################ 1.1m (42in)	305mm (12in)	0	Cable Bus	IIC-4000	IIC-MCC-03
IIC-TRAN-24-LV	2.01 cal/cm²	457mm (18in)	632mm (25in)	208VAC	################ 1.1m (42in)	305mm (12in)	0	Cable Bus	IIC-4000	IIC-MCC-03
IIC-VFD-01	2.67 cal/cm²	457mm (18in)	751mm (30in)	600VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-0002	IIC-DSW-098
IIC-VFD-02	2.62 cal/cm²	457mm (18in)	744mm (29in)	600VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-0002	IIC-DSW-099
IIC-VFD-04	1.51 cal/cm²	457mm (18in)	526mm (21in)	600VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-4000	IIC-DSW-086
IIC-VFD-05	0.26 cal/cm²	457mm (18in)	176mm (7in)	600VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-4000	IIC-DSW-104
IIC-VFD-06	0.57 cal/cm²	457mm (18in)	288mm (11in)	600VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-4000	IIC-MCC-03
IIC-VFD-07	0.57 cal/cm²	457mm (18in)	288mm (11in)	600VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-4000	IIC-MCC-03
IIC-VFD-08	0.57 cal/cm²	457mm (18in)	288mm (11in)	600VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-4000	IIC-MCC-03
IIC-VFD-09	0.58 cal/cm²	457mm (18in)	291mm (11in)	600VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-4000	IIC-MCC-03
IIC-VFD-10	0.57 cal/cm²	457mm (18in)	288mm (11in)	600VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-4000	IIC-MCC-03

IIC-VFD-11	0.58 cal/cm²	457mm (18in)	291mm (11in)	600VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-4000	IIC-MCC-03
IIC-VFD-12	0.59 cal/cm²	457mm (18in)	292mm (11in)	600VAC	################ 1.1m (42in)	305mm (12in)	0	Panelboard	IIC-4000	IIC-MCC-03

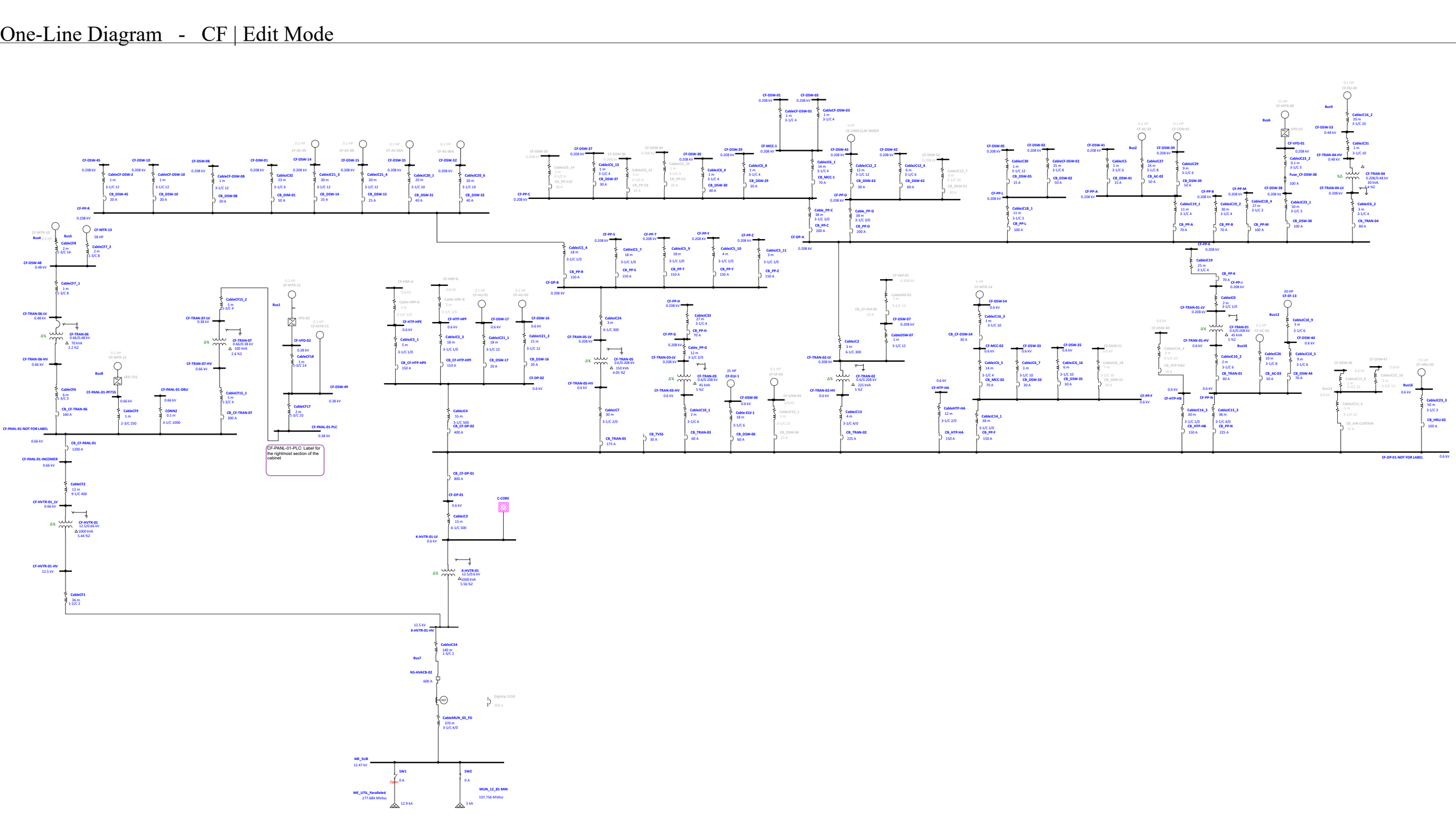
One-Line Diagram - BN | Edit Mode



Arc Flash Labels for Panels

VDP_TAG	VDP_INCIDENT	VDP_WORKING	VDP_ARCFLASH	VDP_NOMINAL	VDP_PERFORMED	VDP_Limited	VDP_Restricted	VDP_Gloves	VDP_Equipment	VDP_Location	VDP_Fed From
BN-DP-1	0.15 cal/cm²	610mm (24in)	169mm (7in)	208VAC	Wednesday, January 21, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	BN-1003A	BN-DP-2_CB-DP-1
BN-DP-2	0.16 cal/cm²	610mm (24in)	173mm (7in)	208VAC	Wednesday, January 21, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	BN-1003A	NS-DP-01_CB-BN-DSW-01
BN-DSW-01	0.21 cal/cm²	457mm (18in)	154mm (6in)	600VAC	Wednesday, January 21, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	BN-1003A	NS-DP-01_CB-BN-DSW-01
BN-DSW-02	0.19 cal/cm²	457mm (18in)	146mm (6in)	600VAC	Wednesday, January 21, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	BN-1003A	BN-DSW-01_No Fuse1
BN-DSW-03	0.2 cal/cm²	457mm (18in)	147mm (6in)	600VAC	Wednesday, January 21, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	BN-1003A	BN-DSW-01_No Fuse1
BN-DSW-04	0.19 cal/cm²	457mm (18in)	145mm (6in)	600VAC	Wednesday, January 21, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	BN-1003A	BN-DSW-01_No Fuse1
BN-DSW-05	0.19 cal/cm²	457mm (18in)	145mm (6in)	600VAC	Wednesday, January 21, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	BN-1003A	BN-DSW-01_No Fuse1
BN-DSW-06	0.19 cal/cm²	457mm (18in)	146mm (6in)	600VAC	Wednesday, January 21, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	BN-1003A	BN-DSW-01_No Fuse1
BN-DSW-07	50.33 cal/cm²	457mm (18in)	4735mm (186in)	208VAC	Wednesday, January 21, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	BN-2032	BN-DP-1_CB_DSW-07
BN-DSW-10	0.04 cal/cm²	457mm (18in)	56mm (2in)	208VAC	Wednesday, January 21, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	BN-1003	BN-PP-J_CB_DSW-10
BN-DSW-12	0.74 cal/cm²	457mm (18in)	339mm (13in)	208VAC	Wednesday, January 21, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	BN-1011A	BN-PP-Q_CB_DSW-12
BN-DSW-14	0.74 cal/cm²	457mm (18in)	339mm (13in)	208VAC	Wednesday, January 21, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	BN-3005	BN-PP-Q_CB_DSW-14
BN-DSW-15	0.03 cal/cm²	457mm (18in)	45mm (2in)	208VAC	Wednesday, January 21, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	BN-4034	BN-LP-L_CB_DSW-15
BN-DSW-16	1.02 cal/cm²	457mm (18in)	414mm (16in)	208VAC	Wednesday, January 21, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	BN-3038C	BN-LP-J_CB_DSW-16
BN-DSW-18	0.06 cal/cm²	457mm (18in)	68mm (3in)	600VAC	Wednesday, January 21, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	BN-ROOF	BN-DSW-04_Fuse_DSW-04
BN-DSW-19	0.04 cal/cm²	457mm (18in)	52mm (2in)	600VAC	Wednesday, January 21, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	BN-ROOF	BN-DSW-03_Fuse_DSW-03
BN-DSW-20	0.07 cal/cm²	457mm (18in)	77mm (3in)	600VAC	Wednesday, January 21, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	BN-ROOF	BN-DSW-03_Fuse_DSW-05
BN-DSW-21	3.88 cal/cm²	457mm (18in)	952mm (37in)	208VAC	Wednesday, January 21, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	BN-ROOF	BN-DP-2_CB_DSW-21
BN-LP-A	0.18 cal/cm²	457mm (18in)	138mm (5in)	208VAC	Wednesday, January 21, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	BN-1003A	BN-DP-1_CB_LP-A
BN-LP-B	5.42 cal/cm²	457mm (18in)	1174mm (46in)	208VAC	Wednesday, January 21, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	BN-1011	BN-DP-1_CB_LP-B
BN-LP-C	4.9 cal/cm²	457mm (18in)	1102mm (43in)	208VAC	Wednesday, January 21, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	BN-2016	BN-DP-1_CB_LP-C
BN-LP-D	8.89 cal/cm²	457mm (18in)	1600mm (63in)	208VAC	Wednesday, January 21, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	BN-2031	BN-DP-1_CB_LP-D
BN-LP-J	18.35 cal/cm²	457mm (18in)	2518mm (99in)	208VAC	Wednesday, January 21, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	BN-3035	BN-DP-2_CB_LP-J
BN-LP-K	17.21 cal/cm²	457mm (18in)	2419mm (95in)	208VAC	Wednesday, January 21, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	BN-3C01	BN-DP-2_CB_LP-K
BN-LP-L	20.66 cal/cm²	457mm (18in)	2712mm (107in)	208VAC	Wednesday, January 21, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	BN-4019	BN-DP-2_CB_LP-L
BN-LP-M	17.5 cal/cm²	457mm (18in)	2445mm (96in)	208VAC	Wednesday, January 21, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	BN-4001A	BN-DP-2_CB_LP-M
BN-LVC-01	0.21 cal/cm²	457mm (18in)	153mm (6in)	600VAC	Wednesday, January 21, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	BN-1003A	BN-DSW-01_No Fuse1
BN-PP-E	0.17 cal/cm²	457mm (18in)	133mm (5in)	208VAC	Wednesday, January 21, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	BN-1003A	BN-DP-1_CB_PP-E
BN-PP-F	6.73 cal/cm²	457mm (18in)	1344mm (53in)	208VAC	Wednesday, January 21, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	BN-1011	BN-DP-1_CB_PP-F
BN-PP-G	3.6 cal/cm²	457mm (18in)	909mm (36in)	208VAC	Wednesday, January 21, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	BN-2016	BN-DP-1_CB_PP-G
BN-PP-H	8.89 cal/cm²	457mm (18in)	1600mm (63in)	208VAC	Wednesday, January 21, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	BN-2031	BN-DP-1_CB_PP-H
BN-PP-J	0.15 cal/cm²	457mm (18in)	123mm (5in)	208VAC	Wednesday, January 21, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	BN-1003	BN-DP-1_CB_PP-J
BN-PP-LA	0.05 cal/cm²	457mm (18in)	63mm (2in)	208VAC	Wednesday, January 21, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	BN-4014	BN-LP-L_CB_PP-LA
BN-PP-N	1.47 cal/cm²	457mm (18in)	519mm (20in)	208VAC	Wednesday, January 21, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	BN-3036	BN-DP-2_CB_PP-N
BN-PP-P	5.26 cal/cm²	457mm (18in)	1152mm (45in)	208VAC	Wednesday, January 21, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	BN-1012	BN-DP-2_CB_PP-P
BN-PP-Q	0.23 cal/cm²	457mm (18in)	161mm (6in)	208VAC	Wednesday, January 21, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	BN-1003A	BN-DP-2_CB_PP-Q
BN-SPT-01	0.2 cal/cm²	457mm (18in)	149mm (6in)	600VAC	Wednesday, January 21, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	BN-1003A	BN-DSW-01_No Fuse1
BN-TRAN-01-HV	0.16 cal/cm²	457mm (18in)	129mm (5in)	600VAC	Wednesday, January 21, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	BN-1003A	BN-DSW-01_No Fuse1
BN-TRAN-01-LV	0.23 cal/cm²	457mm (18in)	161mm (6in)	208VAC	Wednesday, January 21, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	BN-1003A	BN-DSW-01_No Fuse1

One-Line Diagram - CF | Edit Mode


CF-PANL-01-PLC: Label for the rightmost section of the cabinet
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CF-DP-01-NOT FOR LABEL
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CF-PP-B
CF-PP-K
CF-PP-L
CF-PP-M
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CF-PP-S
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C-CORE
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K-HVTR-01-LV
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ME_UTIL_Paralleled
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SW2
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Bus2
Bus5
Bus6
Bus7
Bus8
Bus9
Bus10
Bus12
Bus16
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CableCF15_1
CableCF15_2
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CB_CF-TRAN-06
CB_CF-TRAN-07
CB_CF-HTP-HPE
CB_CF-HTP-HPF
CB_CF-DP-01
CB_CF-DP-02
CB_TVSS
CB_AIR-CURTAIN
Digitrip 1150
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Bus2 0.208 kV
Bus5 0.48 kV
Bus6 0.208 kV
Bus7 12.5 kV
Bus8 0.66 kV
Bus9 0.48 kV
Bus10 0.6 kV
Bus12 0.6 kV
Bus16 0.6 kV
CF-PP-C 0.208 kV
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CF-DP-B 0.208 kV
CF-DP-01 0.6 kV
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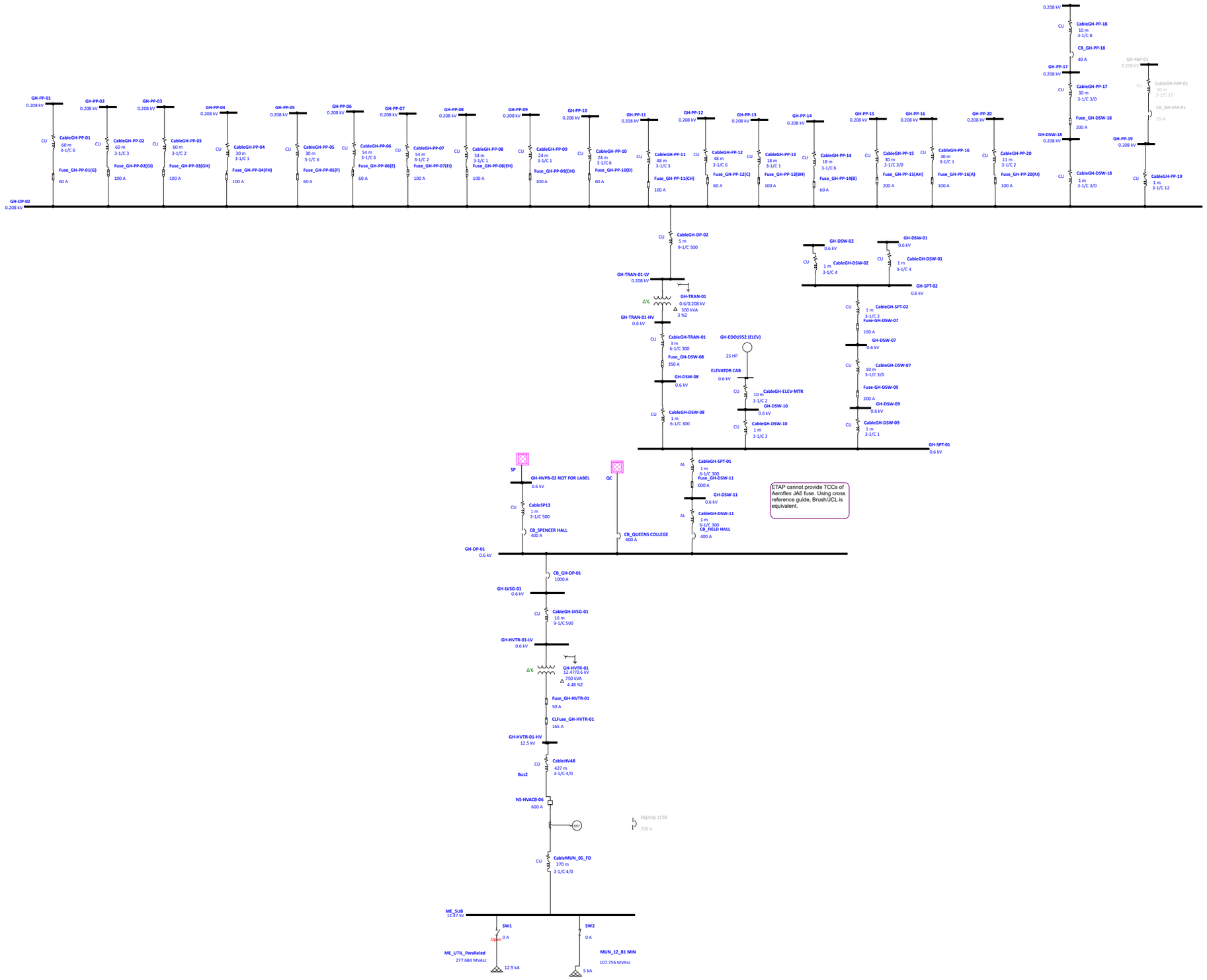
CF-DSW-45 0.208 kV
CF-DSW-46 0.6 kV
CF-DSW-47 0.6 kV
CF-DSW-48 0.48 kV
CF-DSW-49 0.38 kV
CF-DSW-51 0.6 kV
CF-DSW-52 0.208 kV
CF-DSW-53 0.48 kV
CF-DSW-54 0.6 kV
CF-DIM-01 0.208 kV
CF-AC-05 0.208 kV
CF-AC-06 0.208 kV
CF-AC-05A 0.208 kV
CF-AC-06A 0.208 kV
CF-AC-02 0.208 kV
CF-AC-03 0.208 kV
CF-DDN-01 0.208 kV
CF-MTR-08 15 HP
CF-MTR-10 2.2 HP
CF-MTR-11 0.1 HP
CF-MTR-12 0.1 HP
CF-MTR-13 58 HP
CF-MTR-14 5 HP
CF-MTR-15 0.1 HP
CF-EF-13 30 HP
CF-ELV-1 25 HP
CF-FAP-01 0.208 kV
CF-1000 CLAY MIXER 5 HP
CF-HRU-01 0.1 HP
CF-HRU-02 0.1 HP
CF-HVFD-01 0.208 kV
CF-HVTR-01-LV 0.66 kV
CF-HVTR-01-HV 12.5 kV
CF-PANL-01-DBU 0.66 kV
CF-PANL-01-INCOMER 0.66 kV
CF-PANL-01-PF755 0.66 kV
CF-TRAN-01 0.6/0.208 kV 45 kVA 5 %Z
CF-TRAN-01-LV 0.208 kV
CF-TRAN-01-HV 0.6 kV
CF-TRAN-02 0.6/0.208 kV 225 kVA 5 %Z
CF-TRAN-02-LV 0.208 kV
CF-TRAN-02-HV 0.6 kV
CF-TRAN-03 0.6/0.208 kV 45 kVA 5 %Z
CF-TRAN-03-LV 0.208 kV
CF-TRAN-03-HV 0.6 kV
CF-TRAN-04 0.208/0.48 kV 30 kVA 4 %Z
CF-TRAN-04-HV 0.48 kV
CF-TRAN-04-LV 0.208 kV
CF-TRAN-05 0.6/0.208 kV 150 kVA 4.05 %Z
CF-TRAN-05-LV 0.208 kV
CF-TRAN-05-HV 0.6 kV
CF-TRAN-06 0.66/0.48 kV 70 kVA 2.2 %Z
CF-TRAN-06-LV 0.48 kV
CF-TRAN-06-HV 0.66 kV
CF-TRAN-07 0.66/0.38 kV 100 kVA 2.6 %Z
CF-TRAN-07-LV 0.38 kV
CF-TRAN-07-HV 0.66 kV
CF-VFD-01 0.208 kV
CF-VFD-02 0.38 kV
K-HVTR-01 12.5/0.6 kV 1000 kVA 5.56 %Z
K-HVTR-01-LV 0.6 kV
K-HVTR-01-HV 12.5 kV
CF-HVTR-01 12.5/0.66 kV 1000 kVA 5.44 %Z
CF-HVTR-01-LV 0.66 kV
CF-HVTR-01-HV 12.5 kV
CableCF1 35 m 1-3/C 2
CableCF2 12 m 9-1/C 400
CableCF6 6 m 1-3/C 3
CableCF7_1 1 m 1-1/C 8
CableCF7_2 2 m 3-3/C 14
CableCF8 2 m 3-3/C 8
CableCF9 1 m 2-3/C 250
CableCF15_1 5 m 1-3/C 4
CableCF15_2 5 m 1-3/C 4
CableCF17 2 m 1-3/C 10
CableCF18 1 m 1-3/C 14
CableCF21_1 18 m 3-1/C 12
CableCF21_2 21 m 3-1/C 12
CableCF21_3 30 m 3-1/C 12
CableCF21_4 30 m 3-1/C 12
CableCF32 23 m 3-1/C 6
CableIC1 30 m 3-1/C 2/0
CableIC2 3 m 6-1/C 300
CableIC3 15 m 6-1/C 500
CableIC4 55 m 3-1/C 500
CableIC5_1 5 m 3-1/C 1/0
CableIC5_3 18 m 3-1/C 1/0
CableIC5_4 18 m 3-1/C 1/0
CableIC5_5 18 m 3-1/C 1/0
CableIC5_7 18 m 3-1/C 1/0
CableIC5_9 18 m 3-1/C 1/0
CableIC5_10 4 m 3-1/C 1/0
CableIC5_11 3 m 3-1/C 1/0
CableIC6_1 14 m 3-1/C 4
CableIC6_4 1 m 3-1/C 4
CableIC6_5 14 m 3-1/C 4
CableIC6_6 6 m 3-1/C 10
CableIC6_7 3 m 3-1/C 10
CableIC6_8 1 m 3-1/C 4
CableIC6_14 1 m 3-1/C 4
CableIC6_15 1 m 3-1/C 4
CableIC6_16 6 m 3-1/C 10
CableIC7 30 m 3-1/C 2/0
CableIC10_1 2 m 3-1/C 6
CableIC10_2 2 m 3-1/C 6
CableIC10_5 9 m 3-1/C 6
CableIC10_9 3 m 3-1/C 6
CableIC12_1 1 m 3-1/C 12
CableIC12_2 12 m 3-1/C 12
CableIC12_4 6 m 3-1/C 6
CableIC12_7 5 m 3-1/C 10
CableIC13 4 m 3-1/C 4/0
CableIC14_1 38 m 3-1/C 1/0
CableIC14_3 30 m 3-1/C 1/0
CableIC14_4 4 m 3-1/C 10
CableIC15_3 38 m 3-1/C 4/0
CableIC16_1 1 m 3-1/C 10
CableIC16_2 20 m 3-1/C 10
CableIC16_3 1 m 3-1/C 10
CableIC18_1 11 m 3-1/C 3
CableIC19 25 m 3-1/C 4
CableIC19_1 11 m 3-1/C 4
CableIC19_2 30 m 3-1/C 4
CableIC20_1 20 m 3-1/C 10
CableIC20_2 20 m 3-1/C 10
CableIC20_6 20 m 3-1/C 10
CableIC23_1 50 m 3-1/C 3
CableIC23_2 0.1 m 3-1/C 3
CableIC23_3 50 m 3-1/C 3
CableIC24 3 m 6-1/C 300
CableIC26 10 m 3-1/C 8
CableIC27 24 m 3-1/C 8
CableIC29 9 m 3-1/C 6
CableIC30 1 m 3-1/C 12
CableIC31 1 m 3-1/C 10
CableIC32 23 m 3-1/C 6
CableIC33 27 m 3-1/C 4
CableIC34 140 m 1-3/C 2
CableFAP-01 1 m 3-1/C 12
CableHTP-HA 12 m 3-1/C 2/0
CableHTP-HB 4 m 3-1/C 10
Cable-HRP-A 2 m 3-1/C 1/0
Cable-HRP-B 2 m 3-1/C 1/0
Cable_PP-C 38 m 3-1/C 3/0
Cable_PP-D 38 m 3-1/C 3/0
Cable_PP-G 12 m 3-1/C 2/0
CableMUN_05_FD 370 m 3-1/C 4/0
Fuse_CF-DSW-38 100 A
CB_CF-PANL-01 1200 A
CB_CF-TRAN-06 160 A
CB_CF-TRAN-07 300 A
CB_CF-HTP-HPE 150 A
CB_CF-HTP-HPF 150 A
CB_CF-DP-01 800 A
CB_CF-DP-02 400 A
CB_TVSS 30 A
CB_AIR-CURTAIN 15 A
Digitrip 1150 200 A
CB_PP-R 150 A
CB_PP-S 150 A
CB_PP-T 150 A
CB_PP-Y 150 A
CB_PP-Z 150 A
CB_PP-H 70 A
CB_PP-G 70 A
CB_PP-F 150 A
CB_HTP-HA 150 A
CB_HTP-HB 150 A
CB_PP-C 200 A
CB_PP-D 200 A
CB_PP-A 70 A
CB_PP-B 70 A
CB_PP-K 70 A
CB_PP-J 0.208 kV
CB_PP-M 100 A
CB_PP-N 225 A
CB_DSW-01 15 A
CB_DSW-02 50 A
CB_DSW-03 30 A
CB_DSW-04 60 A
CB_DSW-05 15 A
CB_DSW-06 60 A
CB_DSW-07 1 m 3-1/C 12
CB_DSW-08 20 A
CB_DSW-10 20 A
CB_DSW-14 25 A
CB_DSW-15 25 A
CB_DSW-16 20 A
CB_DSW-17 20 A
CB_DSW-29 30 A
CB_DSW-30 40 A
CB_DSW-31 40 A
CB_DSW-32 40 A
CB_DSW-33 30 A
CB_DSW-34 30 A
CB_DSW-35 30 A
CB_DSW-36 30 A
CB_DSW-37 30 A
CB_DSW-38 100 A
CB_DSW-39 50 A
CB_DSW-41 15 A
CB_DSW-42 60 A
CB_DSW-43 30 A
CB_DSW-44 70 A
CB_DSW-45 20 A
CB_DSW-46 0.6 kV
CB_DSW-47 0.6 kV
CB_DSW-51 30 A
CB_DSW-52 30 A
CB_DSW-53 0.48 kV
CB_DSW-54 30 A
CB_AC-01 50 A
CB_AC-02 50 A
CB_AC-03 50 A
CB_DIM-01 50 A
CB_HRU-02 100 A
CB_TRAN-01 60 A
CB_TRAN-02 225 A
CB_TRAN-03 60 A
CB_TRAN-04 80 A
CB_TRAN-05 175 A
CB_TRAN-06 60 A
CB_TRAN-07 100 A
CB_TRAN-08 100 A
CB_TRAN-09 100 A
CB_TRAN-10 100 A
CB_TRAN-11 100 A
CB_TRAN-12 100 A
CB_TRAN-13 100 A
CB_TRAN-14 100 A
CB_TRAN-15 100 A
CB_TRAN-16 100 A
CB_TRAN-17 100 A
CB_TRAN-18 100 A
CB_TRAN-19 100 A

Arc Flash Labels for Panels

VDP_TAG	VDP_INCIDENT	VDP_WORKING	VDP_ARCFLASH	VDP_NOMINAL	VDP_PERFORMED	VDP_Limited	VDP_Restricted	VDP_Gloves	VDP_Equipment	VDP_Location	VDP_Fed From
CF-DIM-01	0.03 cal/cm²	457mm (18in)	46mm (2in)	208VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	CF	CF-PP-R_CB_DIM-01
CF-DP-01	3.95 cal/cm²	610mm (24in)	1285mm (51in)	600VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Switchboard	CF-1012	NS-HVACB-02
CF-DP-02	0.26 cal/cm²	610mm (24in)	232mm (9in)	600VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Switchboard	CF-3023	CF-DP-01_CB_CF-DP-02
CF-DP-A	147.88 cal/cm²	610mm (24in)	12393mm (488in)	208VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Switchboard	CF-1012	CF-DP-01_CB_TRAN-02
CF-DP-B	110.59 cal/cm²	610mm (24in)	10333mm (407in)	208VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Switchboard	CF-3023	CF-DP-02_CB_TRAN-05
CF-DSW-01	0.05 cal/cm²	457mm (18in)	63mm (2in)	208VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	CF-3023	CF-PP-C_CB_MCC-1
CF-DSW-02	1.07 cal/cm²	457mm (18in)	426mm (17in)	208VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	CF-1006	CF-PP-L_CB_DSW-02
CF-DSW-03	0.05 cal/cm²	457mm (18in)	63mm (2in)	208VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	CF-3023	CF-PP-C_CB_MCC-1
CF-DSW-05	0.07 cal/cm²	457mm (18in)	79mm (3in)	208VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	CF-1014	CF-PP-L_CB_DSW-05
CF-DSW-06	0.11 cal/cm²	457mm (18in)	105mm (4in)	600VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	CF-1014	CF-DP-01_CB_DSW-06
CF-DSW-07	277.86 cal/cm²	457mm (18in)	13793mm (543in)	208VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	CF-1012	CF-DP-01_CB_TRAN-02
CF-DSW-08	0.07 cal/cm²	457mm (18in)	77mm (3in)	208VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	CF-4016	CF-PP-R_CB_DSW-08
CF-DSW-10	0.07 cal/cm²	457mm (18in)	77mm (3in)	208VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	CF-4005	CF-PP-R_CB_DSW-10
CF-DSW-14	0.76 cal/cm²	457mm (18in)	344mm (14in)	208VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	CF-ROOF	CF-PP-R_CB_DSW-14
CF-DSW-15	0.76 cal/cm²	457mm (18in)	344mm (14in)	208VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	CF-ROOF	CF-PP-R_CB_DSW-15
CF-DSW-16	0.04 cal/cm²	457mm (18in)	58mm (2in)	600VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	CF-4029	CF-DP-02_CB_DSW-16
CF-DSW-17	0.05 cal/cm²	457mm (18in)	62mm (2in)	600VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	CF-4029	CF-DP-02_CB_DSW-17
CF-DSW-29	0.08 cal/cm²	457mm (18in)	85mm (3in)	208VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	CF-1004	CF-PP-C_CB_DSW-29
CF-DSW-30	0.08 cal/cm²	457mm (18in)	85mm (3in)	208VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	CF-1004	CF-PP-C_CB_DSW-30
CF-DSW-31	0.84 cal/cm²	457mm (18in)	367mm (14in)	208VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	CF-4005	CF-PP-R_CB_DSW-31
CF-DSW-32	0.84 cal/cm²	457mm (18in)	367mm (14in)	208VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	CF-4007	CF-PP-R_CB_DSW-32
CF-DSW-33	0.13 cal/cm²	457mm (18in)	113mm (4in)	600VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	CF-1000	CF-PP-F_CB_DSW-33
CF-DSW-35	0.11 cal/cm²	457mm (18in)	104mm (4in)	600VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	CF-1005	CF-PP-F_CB_DSW-35
CF-DSW-37	0.08 cal/cm²	457mm (18in)	85mm (3in)	208VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	CF-1000	CF-PP-C_CB_DSW-37
CF-DSW-38	2.7 cal/cm²	457mm (18in)	759mm (30in)	208VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	CF-1000	CF-DP-A_CB_DSW-38
CF-DSW-39	0.05 cal/cm²	457mm (18in)	64mm (3in)	208VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	CF-1000A	CF-PP-A_CB_DSW-39
CF-DSW-41	0.08 cal/cm²	457mm (18in)	87mm (3in)	208VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	CF-1000A	CF-PP-A_CB_DSW-41
CF-DSW-42	0.06 cal/cm²	457mm (18in)	70mm (3in)	208VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	CF-1000	CF-PP-D_CB_DSW-42
CF-DSW-43	0.5 cal/cm²	457mm (18in)	265mm (10in)	208VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	CF-1000	CF-PP-D_CB_DSW-43
CF-DSW-44	0.16 cal/cm²	457mm (18in)	129mm (5in)	600VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	CF-0001	CF-PP-N_CB_DSW-44
CF-DSW-45	0.07 cal/cm²	457mm (18in)	77mm (3in)	208VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	CF-4005	CF-PP-R_CB_DSW-45
CF-DSW-48	0.32 cal/cm²	457mm (18in)	199mm (8in)	480VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	CF-0001	CF-PANL-01-INCOMER_CB_CF-TRAN-06
CF-DSW-49	9.12 cal/cm²	457mm (18in)	1626mm (64in)	380VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	CF-0001	CF-PANL-01-INCOMER_CB_CF-TRAN-07
CF-DSW-53	0.02 cal/cm²	457mm (18in)	33mm (1in)	480VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	CF-ROOF	CF-DP-A_CB_TRAN-04
CF-DSW-54	0.12 cal/cm²	457mm (18in)	107mm (4in)	600VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	CF-1004	CF-MCC-02_CB_CF-DSW-54
CF-HTP-HA	0.19 cal/cm²	457mm (18in)	143mm (6in)	600VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	CF-2C02	CF-DP-01_CB_HTP-HA
CF-HTP-HB	0.16 cal/cm²	457mm (18in)	130mm (5in)	600VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	CF-1000	CF-DP-01_CB_HTP-HB
CF-HTP-HPE	0.16 cal/cm²	457mm (18in)	128mm (5in)	600VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	CF-3023	CF-DP-02_CB_CF-HTP-HPE
CF-HTP-HPF	0.15 cal/cm²	457mm (18in)	122mm (5in)	600VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	CF-4016	CF-DP-02_CB_CF-HTP-HPF
CF-HVTR-01_LV	5.19 cal/cm²	457mm (18in)	1141mm (45in)	660VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	CF-GR	NS-HVACB-02
CF-HVTR-01-HV	1.01 cal/cm²	914mm (36in)	816mm (32in)	12500VAC	Monday, December 22, 2025	1.5m (60in)	658mm (26in)	2	Cable Bus	CF-GR	NS-HVACB-02
CF-MCC-02	0.12 cal/cm²	457mm (18in)	110mm (4in)	600VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	MCC	CF-1000	CF-PP-F_CB_MCC-02
CF-MCC-1	0.05 cal/cm²	457mm (18in)	64mm (3in)	208VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	MCC	CF-1005	CF-PP-C_CB_MCC-1
CF-PANL-01-DBU	0.92 cal/cm²	610mm (24in)	515mm (20in)	660VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Switchgear	CF-0001	CF-PANL-01-INCOMER_CB_CF-PANL-01
CF-PANL-01-INCOMER	3.06 cal/cm²	610mm (24in)	1094mm (43in)	660VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Switchgear	CF-0001	NS-HVACB-02
CF-PANL-01-PF755	0.92 cal/cm²	610mm (24in)	514mm (20in)	660VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Switchgear	CF-0001	CF-PANL-01-INCOMER_CB_CF-PANL-01
CF-PANL-01-PLC	5.89 cal/cm²	610mm (24in)	1650mm (65in)	380VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Switchgear	CF-0001	CF-PANL-01-INCOMER_CB_CF-TRAN-07
CF-PP-A	0.09 cal/cm²	457mm (18in)	91mm (4in)	208VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	CF-1012	CF-DP-A_CB_PP-A
CF-PP-B	0.04 cal/cm²	457mm (18in)	58mm (2in)	208VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	CF-1007	CF-DP-A_CB_PP-B
CF-PP-C	22.47 cal/cm²	457mm (18in)	2859mm (113in)	208VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	CF-1005	CF-DP-A_CB_PP-C
CF-PP-D	22.47 cal/cm²	457mm (18in)	2859mm (113in)	208VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	CF-1001	CF-DP-A_CB_PP-D
CF-PP-F	0.15 cal/cm²	457mm (18in)	125mm (5in)	600VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	CF-1000	CF-DP-01_CB_PP-F
CF-PP-G	10.41 cal/cm²	457mm (18in)	1766mm (70in)	208VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	CF-2C02	CF-DP-01_CB_TRAN-03
CF-PP-H	1.89 cal/cm²	457mm (18in)	607mm (24in)	208VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	CF-2C02	CF-PP-G_CB_PP-H
CF-PP-J	11.84 cal/cm²	457mm (18in)	1915mm (75in)	208VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	CF-0001	CF-PP-N_CB_TRAN-01
CF-PP-K	3.04 cal/cm²	457mm (18in)	817mm (32in)	208VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	CF-2020A	CF-PP-J_CB_PP-K
CF-PP-L	0.09 cal/cm²	457mm (18in)	93mm (4in)	208VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	CF-1012	CF-DP-A_CB_PP-L
CF-PP-M	0.05 cal/cm²	457mm (18in)	65mm (3in)	208VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	CF-2000	CF-DP-A_CB_PP-M
CF-PP-N	0.19 cal/cm²	457mm (18in)	145mm (6in)	600VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	CF-0001	CF-DP-01_CB_PP-N
CF-PP-R	0.12 cal/cm²	457mm (18in)	109mm (4in)	208VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	CF-4016	CF-DP-B_CB_PP-R
CF-PP-S	0.12 cal/cm²	457mm (18in)	109mm (4in)	208VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	CF-4016	CF-DP-B_CB_PP-S

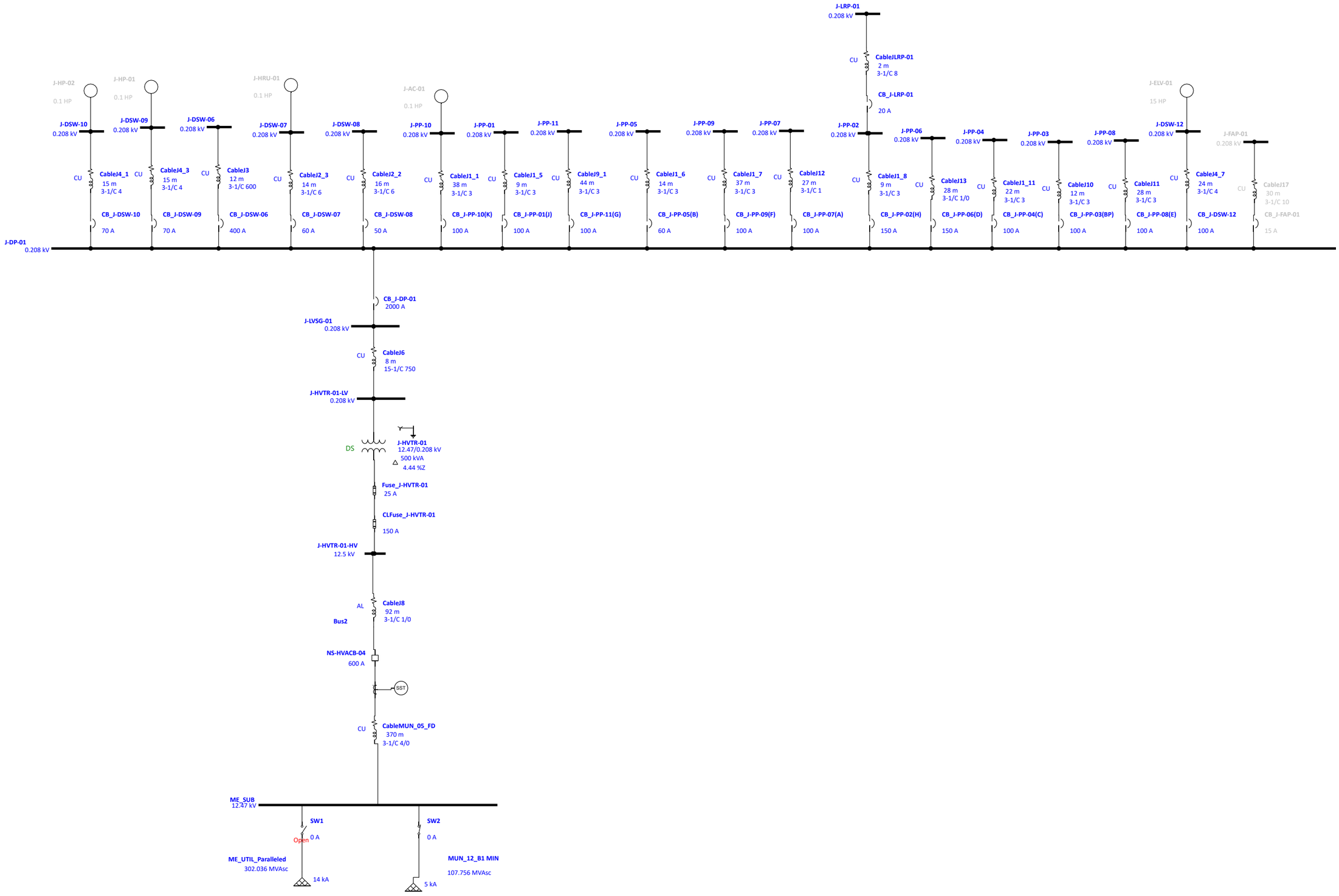
CF-PP-T	0.12 cal/cm²	457mm (18in)	109mm (4in)	208VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	CF-4016	CF-DP-B_CB_PP-T
CF-PP-Y	0.1 cal/cm²	457mm (18in)	94mm (4in)	208VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	CF-3023	CF-DP-B_CB_PP-Y
CF-PP-Z	0.1 cal/cm²	457mm (18in)	94mm (4in)	208VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	CF-3023	CF-DP-B_CB_PP-Z
CF-TRAN-01-HV	0.16 cal/cm²	457mm (18in)	128mm (5in)	600VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	CF-0001	CF-PP-N_CB_TRAN-01
CF-TRAN-01-LV	8.26 cal/cm²	457mm (18in)	1528mm (60in)	208VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	CF-0001	CF-PP-N_CB_TRAN-01
CF-TRAN-02-HV	0.19 cal/cm²	457mm (18in)	146mm (6in)	600VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	CF-1012	CF-DP-01_CB_TRAN-02
CF-TRAN-02-LV	151.42 cal/cm²	457mm (18in)	9433mm (371in)	208VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	CF-1012	CF-DP-01_CB_TRAN-02
CF-TRAN-03-HV	0.12 cal/cm²	457mm (18in)	106mm (4in)	600VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	CF-1012	CF-DP-01_CB_TRAN-03
CF-TRAN-03-LV	7 cal/cm²	457mm (18in)	1378mm (54in)	208VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	CF-1012	CF-DP-01_CB_TRAN-03
CF-TRAN-04-HV	0.02 cal/cm²	457mm (18in)	30mm (1in)	480VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	CF-1012	CF-DP-A_CB_TRAN-04
CF-TRAN-04-LV	0.13 cal/cm²	457mm (18in)	115mm (5in)	208VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	CF-1012	CF-DP-A_CB_TRAN-04
CF-TRAN-05-HV	0.15 cal/cm²	457mm (18in)	123mm (5in)	600VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	CF-3023	CF-DP-01_CB_TRAN-05
CF-TRAN-05-LV	115.4 cal/cm²	457mm (18in)	7959mm (313in)	208VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	CF-3023	CF-DP-01_CB_TRAN-05
CF-TRAN-06-HV	0.94 cal/cm²	457mm (18in)	391mm (15in)	660VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	CF-0001	CF-PANL-01_CB_CF-TRAN-06
CF-TRAN-06-LV	0.28 cal/cm²	457mm (18in)	185mm (7in)	480VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	CF-0001	CF-PANL-01_CB_CF-TRAN-06
CF-TRAN-07-HV	0.23 cal/cm²	457mm (18in)	164mm (6in)	660VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	CF-0001	CF-PANL-01_CB_CF-TRAN-07
CF-TRAN-07-LV	5.8 cal/cm²	457mm (18in)	1225mm (48in)	380VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	CF-0001	CF-PANL-01_CB_CF-TRAN-07
CF-VFD-01	2.71 cal/cm²	457mm (18in)	760mm (30in)	208VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	CF-1000A	CF-DSW-38_Fuse_CF_DSW-38
CF-VFD-02	10.28 cal/cm²	457mm (18in)	1752mm (69in)	380VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	CF-0001	CF-DSW-49_No_Fuse

One-Line Diagram - GH | Edit Mode



Arc Flash Labels for Panels

VDP_TAG	VDP_INCIDENT	VDP_WORKING	VDP_ARCFLASH	VDP_NOMINAL	VDP_PERFORMED	VDP_Limited	VDP_Restricted	VDP_Gloves	VDP_Equipment	VDP_Location	VDP_Fed From
GH-DP-01	3.76 cal/cm²	610mm (24in)	1245mm (49in)	600VAC	Thursday, January 22, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	GH-005	GH-LVSG-01_CB_GH-DP-01
GH-DP-02	55.62 cal/cm²	610mm (24in)	6721mm (265in)	208VAC	Thursday, January 22, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	GH-002	GH-DSW-08_Fuse_GH-DSW-08
GH-DSW-01	0.24 cal/cm²	457mm (18in)	167mm (7in)	600VAC	Thursday, January 22, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	GH-004	GH-DSW-07_Fuse-GH-DSW-07
GH-DSW-02	0.24 cal/cm²	457mm (18in)	167mm (7in)	600VAC	Thursday, January 22, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	GH-004	GH-DSW-07_Fuse-GH-DSW-07
GH-DSW-07	0.25 cal/cm²	457mm (18in)	171mm (7in)	600VAC	Thursday, January 22, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	GH-002	GH-DSW-09_Fuse-GH-DSW-09
GH-DSW-08	0.28 cal/cm²	457mm (18in)	183mm (7in)	600VAC	Thursday, January 22, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	GH-002	GH-DSW-11_Fuse_GH-DSW-11
GH-DSW-09	0.27 cal/cm²	457mm (18in)	181mm (7in)	600VAC	Thursday, January 22, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	GH-002	GH-DSW-11_Fuse_GH-DSW-11
GH-DSW-10	0.27 cal/cm²	457mm (18in)	180mm (7in)	600VAC	Thursday, January 22, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	GH-002	GH-DSW-11_Fuse_GH-DSW-11
GH-DSW-11	0.32 cal/cm²	457mm (18in)	201mm (8in)	600VAC	Thursday, January 22, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	GH-002	GH-DP-01_CB_FIELD HALL
GH-DSW-18	73.81 cal/cm²	457mm (18in)	6017mm (237in)	208VAC	Thursday, January 22, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	GH-002	GH-DSW-08_Fuse_GH-DSW-08
GH-HVTR-01-HV	0.97 cal/cm²	914mm (36in)	796mm (31in)	12500VAC	Thursday, January 22, 2026	1.5m (60in)	658mm (26in)	2	Cable Bus	GH-GR	NS-HVACB-06
GH-HVTR-01-LV	5.02 cal/cm²	457mm (18in)	1119mm (44in)	600VAC	Thursday, January 22, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	GH-GR	GH-HVTR-01_Fuse_BAY O NET
GH-LVSG-01	3.76 cal/cm²	610mm (24in)	1245mm (49in)	600VAC	Thursday, January 22, 2026	1.1m (42in)	305mm (12in)	0	Switchgear	GH-005	GH-HVTR-01_Fuse_BAY O NET
GH-PP-01	0.36 cal/cm²	457mm (18in)	215mm (8in)	208VAC	Thursday, January 22, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	GH-4010	GH-DP-02_Fuse_GH-PP-01(G)
GH-PP-02	4.18 cal/cm²	457mm (18in)	998mm (39in)	208VAC	Thursday, January 22, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	GH-4010	GH-DP-02_Fuse_GH-PP-02(GI)
GH-PP-03	0.03 cal/cm²	457mm (18in)	48mm (2in)	208VAC	Thursday, January 22, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	GH-4010	GH-DP-02_Fuse_GH-PP-03(GH)
GH-PP-04	0.08 cal/cm²	457mm (18in)	84mm (3in)	208VAC	Thursday, January 22, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	GH-4C03	GH-DP-02_Fuse_GH-PP-04(FH)
GH-PP-05	0.05 cal/cm²	457mm (18in)	62mm (2in)	208VAC	Thursday, January 22, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	GH-4C03	GH-DP-02_Fuse_GH-PP-05(F)
GH-PP-06	0.25 cal/cm²	457mm (18in)	173mm (7in)	208VAC	Thursday, January 22, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	GH-3010	GH-DP-02_Fuse_GH-PP-06(E)
GH-PP-07	0.47 cal/cm²	457mm (18in)	253mm (10in)	208VAC	Thursday, January 22, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	GH-3010	GH-DP-02_Fuse_GH-PP-07(EI)
GH-PP-08	0.34 cal/cm²	457mm (18in)	206mm (8in)	208VAC	Thursday, January 22, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	GH-3010	GH-DP-02_Fuse_GH-PP-08(EH)
GH-PP-09	0.06 cal/cm²	457mm (18in)	69mm (3in)	208VAC	Thursday, January 22, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	GH-3C03	GH-DP-02_Fuse_GH-PP-09(DH)
GH-PP-10	0.03 cal/cm²	457mm (18in)	41mm (2in)	208VAC	Thursday, January 22, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	GH-3C03	GH-DP-02_Fuse_GH-PP-10(D)
GH-PP-11	0.06 cal/cm²	457mm (18in)	73mm (3in)	208VAC	Thursday, January 22, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	GH-2C02	GH-DP-02_Fuse_GH-PP-11(CH)
GH-PP-12	0.18 cal/cm²	457mm (18in)	137mm (5in)	208VAC	Thursday, January 22, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	GH-2C02	GH-DP-02_Fuse_GH-PP-12(C)
GH-PP-13	0.07 cal/cm²	457mm (18in)	79mm (3in)	208VAC	Thursday, January 22, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	GH-2021	GH-DP-02_Fuse_GH-PP-13(BH)
GH-PP-14	0.03 cal/cm²	457mm (18in)	49mm (2in)	208VAC	Thursday, January 22, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	GH-2021	GH-DP-02_Fuse_GH-PP-14(B)
GH-PP-15	0.15 cal/cm²	457mm (18in)	125mm (5in)	208VAC	Thursday, January 22, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	GH-1000	GH-DP-02_Fuse_GH-PP-15(AH)
GH-PP-16	0.05 cal/cm²	457mm (18in)	61mm (2in)	208VAC	Thursday, January 22, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	GH-1000	GH-DP-02_Fuse_GH-PP-16(A)
GH-PP-17	0.16 cal/cm²	457mm (18in)	128mm (5in)	208VAC	Thursday, January 22, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	GH-1000	GH-DSW-18_Fuse_GH-DSW-18
GH-PP-18	0.05 cal/cm²	457mm (18in)	63mm (2in)	208VAC	Thursday, January 22, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	GH-1004A	GH-DP-02_CB_GH-PP-18
GH-PP-19	498.78 cal/cm²	457mm (18in)	19891mm (783in)	208VAC	Thursday, January 22, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	GH-002	GH-DSW-08_Fuse_GH-DSW-08
GH-PP-20	0.1 cal/cm²	457mm (18in)	97mm (4in)	208VAC	Thursday, January 22, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	GH-002	GH-DP-02_Fuse_GH-PP-20(AI)
GH-SPT-01	0.28 cal/cm²	457mm (18in)	183mm (7in)	600VAC	Thursday, January 22, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	GH-002	GH-DSW-11_Fuse_GH-DSW-11
GH-SPT-02	0.25 cal/cm²	457mm (18in)	169mm (7in)	600VAC	Thursday, January 22, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	GH-004	GH-DSW-07_Fuse-GH-DSW-07
GH-TRAN-01-HV	0.24 cal/cm²	457mm (18in)	165mm (6in)	600VAC	Thursday, January 22, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	GH-002	GH-DSW-08_Fuse_GH-DSW-08
GH-TRAN-01-LV	28.42 cal/cm²	457mm (18in)	3311mm (130in)	208VAC	Thursday, January 22, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	GH-002	GH-DSW-08_Fuse_GH-DSW-08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CU
CableJLRP-01
2 m
3-1/C 8
CB_J-LRP-01
20 A
J-HP-02
0.1 HP
J-DSW-10
0.208 kV
CU
CableJ4_1
15 m
3-1/C 4
CB_J-DSW-10
70 A
J-HP-01
0.1 HP
J-DSW-09
0.208 kV
CU
CableJ4_3
15 m
3-1/C 4
CB_J-DSW-09
70 A
J-DSW-06
0.208 kV
CU
CableJ3
12 m
3-1/C 600
CB_J-DSW-06
400 A
J-HRU-01
0.1 HP
J-DSW-07
0.208 kV
CU
CableJ2_3
14 m
3-1/C 6
CB_J-DSW-07
60 A
J-DSW-08
0.208 kV
CU
CableJ2_2
16 m
3-1/C 6
CB_J-DSW-08
50 A
J-AC-01
0.1 HP
J-PP-10
0.208 kV
CU
CableJ1_1
38 m
3-1/C 3
CB_J-PP-10(K)
100 A
J-PP-01
0.208 kV
CU
CableJ1_5
9 m
3-1/C 3
CB_J-PP-01(J)
100 A
J-PP-11
0.208 kV
CU
CableJ9_1
44 m
3-1/C 3
CB_J-PP-11(G)
100 A
J-PP-05
0.208 kV
CU
CableJ1_6
14 m
3-1/C 3
CB_J-PP-05(B)
60 A
J-PP-09
0.208 kV
CU
CableJ1_7
37 m
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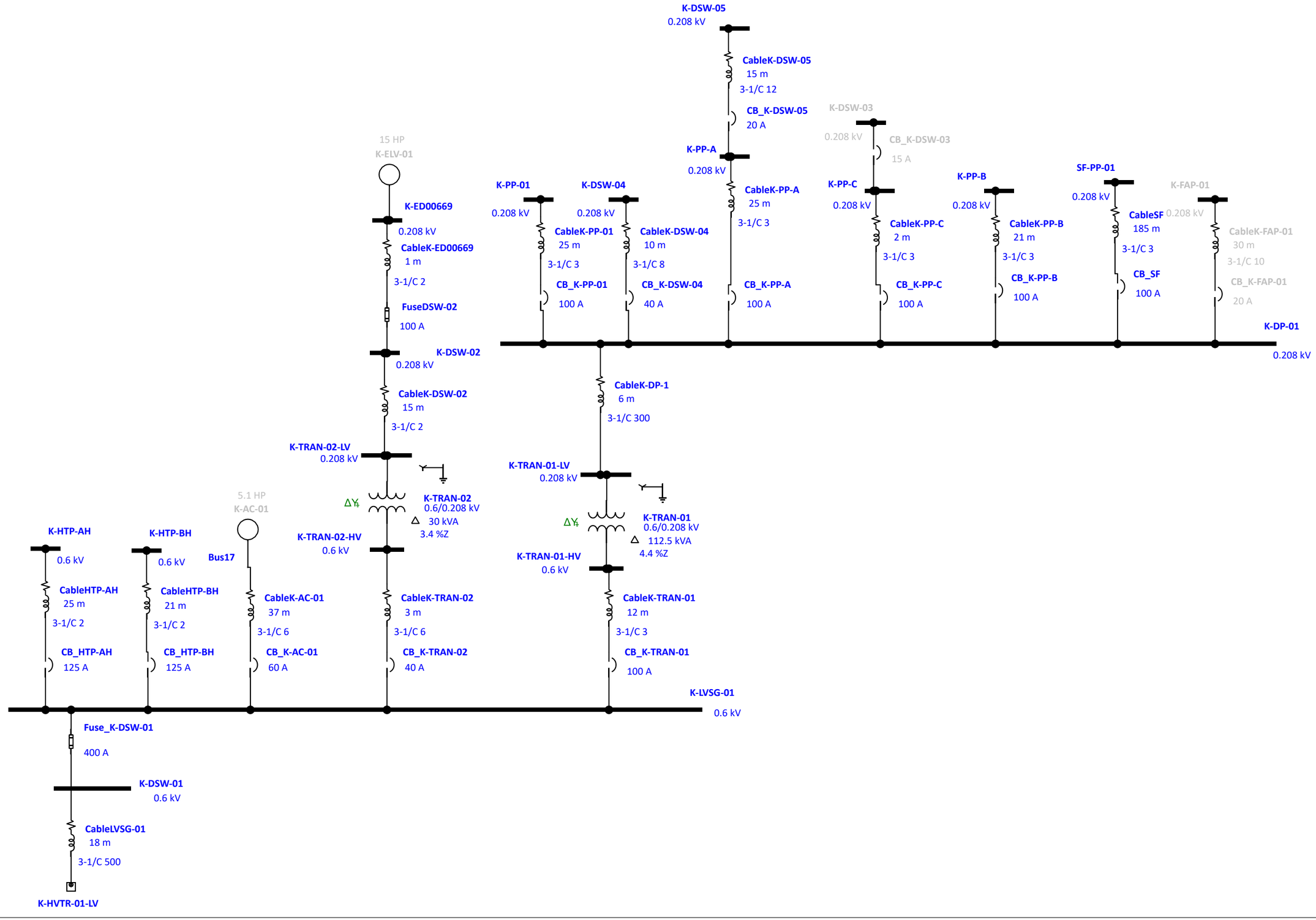
CB_J-PP-09(F)
100 A
J-PP-07
0.208 kV
CU
CableJ12
27 m
3-1/C 1
CB_J-PP-07(A)
100 A
J-PP-02
0.208 kV
CU
CableJ1_8
9 m
3-1/C 3
CB_J-PP-02(H)
150 A
J-PP-06
0.208 kV
CU
CableJ13
28 m
3-1/C 1/0
CB_J-PP-06(D)
150 A
J-PP-04
0.208 kV
CU
CableJ1_11
22 m
3-1/C 3
CB_J-PP-04(C)
100 A
J-PP-03
0.208 kV
CU
CableJ10
12 m
3-1/C 3
CB_J-PP-03(BP)
100 A
J-PP-08
0.208 kV
CU
CableJ11
28 m
3-1/C 3
CB_J-PP-08(E)
100 A
J-ELV-01
15 HP
J-DSW-12
0.208 kV
CU
CableJ4_7
24 m
3-1/C 4
CB_J-DSW-12
100 A
J-FAP-01
0.208 kV
CU
CableJ17
30 m
3-1/C 10
CB_J-FAP-01
15 A
J-DP-01
0.208 kV
CB_J-DP-01
2000 A
J-LVSG-01
0.208 kV
CU
CableJ6
8 m
15-1/C 750
J-HVTR-01-LV
0.208 kV
J-HVTR-01
DS
12.47/0.208 kV
500 kVA
4.44 %Z
Fuse_J-HVTR-01
25 A
CLFuse_J-HVTR-01
150 A
J-HVTR-01-HV
12.5 kV
AL
CableJ8
92 m
3-1/C 1/0
Bus2
NS-HVACB-04
600 A
SST
CU
CableMUN_05_FD
370 m
3-1/C 4/0
ME_SUB
12.47 kV
SW1
Open
0 A
ME_UTIL_Paralleled
302.036 MVAsc
14 kA
SW2
0 A
MUN_12_B1 MIN
107.756 MVAsc
5 kA

Arc Flash Labels for Panels

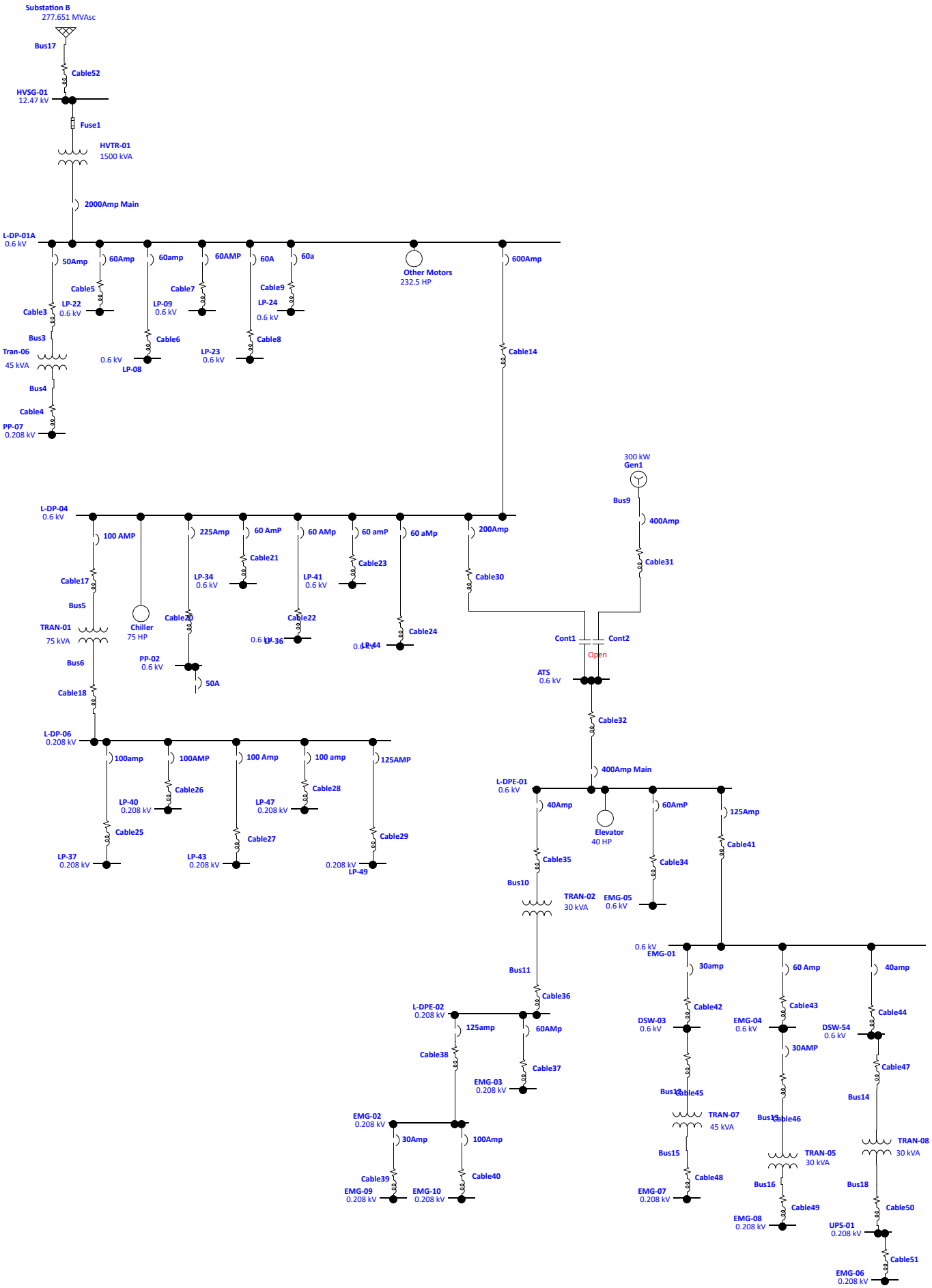
VDP_TAG	VDP_INCIDENT	VDP_WORKING	VDP_ARCFLASH	VDP_NOMINAL	VDP_PERFORMED	VDP_Limited	VDP_Restricted	VDP_Gloves	VDP_Equipment	VDP_Location	VDP_Fed From
J-DP-01	9.2 cal/cm²	610mm (24in)	2183mm (86in)	208VAC	Wednesday, January 28, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	J-1002	J-LVSG-01_CB-JDP-01
J-DSW-06	0.3 cal/cm²	457mm (18in)	184mm (7in)	208VAC	Wednesday, January 28, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	J-1001	J-DP-01_CB_J-DSW-06
J-DSW-07	0.1 cal/cm²	457mm (18in)	88mm (3in)	208VAC	Wednesday, January 28, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	J-1001	J-DP-01_CB_J-DSW-07
J-DSW-08	0.1 cal/cm²	457mm (18in)	83mm (3in)	208VAC	Wednesday, January 28, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	J-1001	J-DP-01_CB_J-DSW-08
J-DSW-09	0.1 cal/cm²	457mm (18in)	106mm (4in)	208VAC	Wednesday, January 28, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	J-GR	J-DP-01_CB_J-DSW-09
J-DSW-10	0.1 cal/cm²	457mm (18in)	106mm (4in)	208VAC	Wednesday, January 28, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	J-GR	J-DP-01_CB_J-DSW-10
J-DSW-12	0.1 cal/cm²	457mm (18in)	92mm (4in)	208VAC	Wednesday, January 28, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	J-2015	J-DP-01_CB_J-DSW-12
J-HVTR-01-HV	1 cal/cm²	914mm (36in)	833mm (33in)	12500VAC	Wednesday, January 28, 2026	1.5m (60in)	658mm (26in)	2	Cable Bus	J-GR	J-HVTR-01_Fuse_J-HVTR-01
J-HVTR-01-LV	5.9 cal/cm²	457mm (18in)	1236mm (49in)	208VAC	Wednesday, January 28, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	J-GR	J-HVTR-01_Fuse_J-HVTR-01
J-LRP-01	0.1 cal/cm²	457mm (18in)	113mm (4in)	208VAC	Wednesday, January 28, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	J-1002	J-PP-02_CB_J-LRP-01
J-LVSG-01	9.2 cal/cm²	610mm (24in)	2183mm (86in)	208VAC	Wednesday, January 28, 2026	1.1m (42in)	305mm (12in)	0	Switchgear	J-1002	J-HVTR-01_Fuse_J-HVTR-01
J-PP-01	0.2 cal/cm²	457mm (18in)	135mm (5in)	208VAC	Wednesday, January 28, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	J-1002	J-DP-01_CB_J-PP-01(J)
J-PP-02	0.2 cal/cm²	457mm (18in)	129mm (5in)	208VAC	Wednesday, January 28, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	J-1002	J-DP-01_CB_J-PP-02(H)
J-PP-03	0.1 cal/cm²	457mm (18in)	123mm (5in)	208VAC	Wednesday, January 28, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	J-1001	J-DP-01_CB_J-PP-03(BP)
J-PP-04	0.1 cal/cm²	457mm (18in)	98mm (4in)	208VAC	Wednesday, January 28, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	J-2C02	J-DP-01_CB_J-PP-04(C)
J-PP-05	0.1 cal/cm²	457mm (18in)	114mm (4in)	208VAC	Wednesday, January 28, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	J-2009B	J-DP-01_CB_J-PP-05(B)
J-PP-06	0.1 cal/cm²	457mm (18in)	115mm (5in)	208VAC	Wednesday, January 28, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	J-2005	J-DP-01_CB_J-PP-06(D)
J-PP-07	0.1 cal/cm²	457mm (18in)	104mm (4in)	208VAC	Wednesday, January 28, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	J-2024	J-DP-01_CB_J-PP-07(A)
J-PP-08	0.1 cal/cm²	457mm (18in)	92mm (4in)	208VAC	Wednesday, January 28, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	J-3011	J-DP-01_CB_J-PP-08(E)
J-PP-09	0.7 cal/cm²	457mm (18in)	333mm (13in)	208VAC	Wednesday, January 28, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	J-3017	J-DP-01_CB_J-PP-09(F)
J-PP-10	1 cal/cm²	457mm (18in)	414mm (16in)	208VAC	Wednesday, January 28, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	J-3017	J-DP-01_CB_J-PP-10(K)
J-PP-11	3 cal/cm²	457mm (18in)	802mm (32in)	208VAC	Wednesday, January 28, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	J-4009	J-DP-01_CB_J-PP-11(G)


K-DSW-05
0.208 kV
CableK-DSW-05
15 m
3-1/C 12
CB_K-DSW-05
20 A
K-DSW-03
0.208 kV
CB_K-DSW-03
15 A
15 HP
K-ELV-01
K-PP-A
0.208 kV
CableK-PP-A
25 m
3-1/C 3
K-PP-01
0.208 kV
K-DSW-04
0.208 kV
K-PP-C
0.208 kV
K-PP-B
0.208 kV
SF-PP-01
0.208 kV
K-FAP-01
0.208 kV
CableK-PP-01
25 m
3-1/C 3
CB_K-PP-01
100 A
CableK-DSW-04
10 m
3-1/C 8
CB_K-DSW-04
40 A
CB_K-PP-A
100 A
CableK-PP-C
2 m
3-1/C 3
CB_K-PP-C
100 A
CableK-PP-B
21 m
3-1/C 3
CB_K-PP-B
100 A
CableSF
185 m
3-1/C 3
CB_SF
100 A
CableK-FAP-01
30 m
3-1/C 10
CB_K-FAP-01
20 A
K-DP-01
0.208 kV
K-ED00669
0.208 kV
CableK-ED00669
1 m
3-1/C 2
FuseDSW-02
100 A
K-DSW-02
0.208 kV
CableK-DSW-02
15 m
3-1/C 2
CableK-DP-1
6 m
3-1/C 300
K-TRAN-02-LV
0.208 kV
K-TRAN-01-LV
0.208 kV
5.1 HP
K-AC-01
K-TRAN-02
0.6/0.208 kV
30 kVA
3.4 %Z
K-TRAN-02-HV
0.6 kV
K-TRAN-01
0.6/0.208 kV
112.5 kVA
4.4 %Z
K-TRAN-01-HV
0.6 kV
K-HTP-AH
0.6 kV
K-HTP-BH
0.6 kV
Bus17
CableHTP-AH
25 m
3-1/C 2
CB_HTP-AH
125 A
CableHTP-BH
21 m
3-1/C 2
CB_HTP-BH
125 A
CableK-AC-01
37 m
3-1/C 6
CB_K-AC-01
60 A
CableK-TRAN-02
3 m
3-1/C 6
CB_K-TRAN-02
40 A
CableK-TRAN-01
12 m
3-1/C 3
CB_K-TRAN-01
100 A
K-LVSG-01
0.6 kV
Fuse_K-DSW-01
400 A
K-DSW-01
0.6 kV
CableLVSG-01
18 m
3-1/C 500
K-HVTR-01-LV

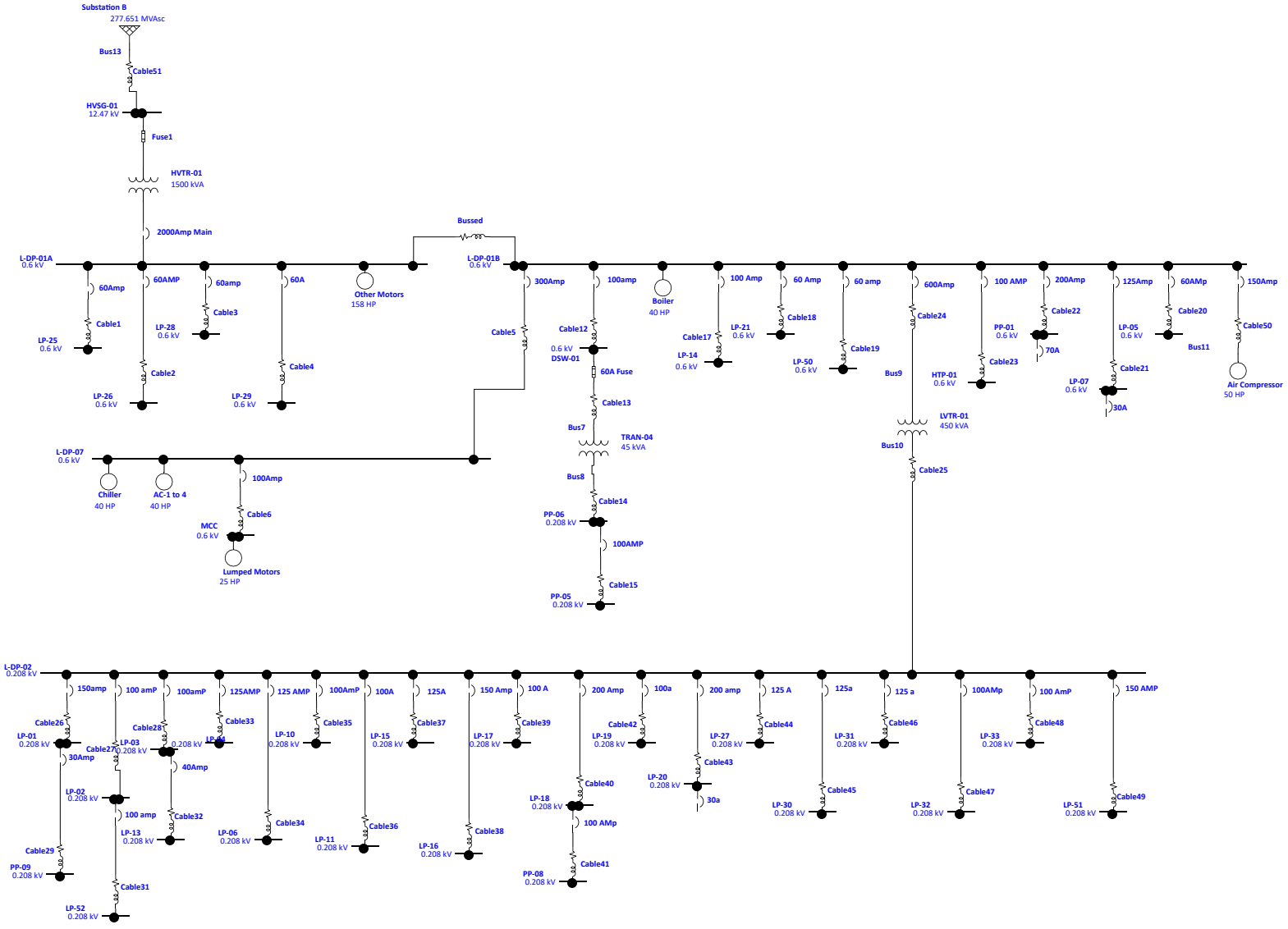
Arc Flash Labels for Panels

VDP_TAG	VDP_INCIDENT	VDP_WORKING	VDP_ARCFLASH	VDP_NOMINAL	VDP_PERFORMED	VDP_Limited	VDP_Restricted	VDP_Gloves	VDP_Equipment	VDP_Location	VDP_Fed From
K-DP-01	16.1 cal/cm²	610mm (24in)	3098mm (122in)	208VAC	Wednesday, December 24, 2025	1.1m (42in)	305mm (12in)	0	Switchboard	K-1005C	K-LVSG-01_CB_K-TRAN-01
K-DSW-01	5.5 cal/cm²	457mm (18in)	1186mm (47in)	600VAC	Wednesday, December 24, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	K-1005C	NS-HVACB-02_NS-HVACB-02
K-DSW-02	10.8 cal/cm²	457mm (18in)	1811mm (71in)	208VAC	Wednesday, December 24, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	K-1003	K-LVSG-01_CB_K-TRAN-02
K-DSW-04	0.3 cal/cm²	457mm (18in)	196mm (8in)	208VAC	Wednesday, December 24, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	K-1005B	K-DP-01_CB_K-DSW-04
K-DSW-05	0.5 cal/cm²	457mm (18in)	278mm (11in)	208VAC	Wednesday, December 24, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	K-ROOF	K-PP-A_CB_K-DSW-05
K-ED00669	1.1 cal/cm²	457mm (18in)	427mm (17in)	208VAC	Wednesday, December 24, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	K-1E01	K-DSW-02_FuseDSW-02
K-HTP-AH	0.2 cal/cm²	457mm (18in)	143mm (6in)	600VAC	Wednesday, December 24, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	K-1006B	K-LVSG-01_CB_HTP-AH
K-HTP-BH	0.2 cal/cm²	457mm (18in)	149mm (6in)	600VAC	Wednesday, December 24, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	K-2005	K-LVSG-01_CB_HTP-BH
K-HVTR-01-HV	1 cal/cm²	914mm (36in)	824mm (32in)	12500VAC	Wednesday, December 24, 2025	1.5m (60in)	658mm (26in)	2	Cable Bus	K-GR	NS-HVACB-02_NS-HVACB-02
K-HVTR-01-LV	5.4 cal/cm²	457mm (18in)	1168mm (46in)	600VAC	Wednesday, December 24, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	K-GR	NS-HVACB-02_NS-HVACB-02
K-LVSG-01	0.2 cal/cm²	610mm (24in)	189mm (7in)	600VAC	Wednesday, December 24, 2025	1.1m (42in)	305mm (12in)	0	Switchgear	K-1005C	K-DSW-01_Fuse_K-DSW-01
K-PP-01	3.4 cal/cm²	457mm (18in)	870mm (34in)	208VAC	Wednesday, December 24, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	K-1006B	K-DP-01_CB_K-PP-01
K-PP-A	3.4 cal/cm²	457mm (18in)	870mm (34in)	208VAC	Wednesday, December 24, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	K-1006B	K-DP-01_CB_K-PP-A
K-PP-B	2.5 cal/cm²	457mm (18in)	729mm (29in)	208VAC	Wednesday, December 24, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	K-2005	K-DP-01_CB_K-PP-B
K-PP-C	0.1 cal/cm²	457mm (18in)	93mm (4in)	208VAC	Wednesday, December 24, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	K-1005C	K-DP-01_CB_K-PP-C
K-TRAN-01-HV	0.2 cal/cm²	457mm (18in)	139mm (5in)	600VAC	Wednesday, December 24, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	K-1005C	K-LVSG-01_CB_K-TRAN-01
K-TRAN-01-LV	14.8 cal/cm²	457mm (18in)	2201mm (87in)	208VAC	Wednesday, December 24, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	K-1005C	K-LVSG-01_CB_K-TRAN-01
K-TRAN-02-HV	0.2 cal/cm²	457mm (18in)	157mm (6in)	600VAC	Wednesday, December 24, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	K-1005C	K-LVSG-01_CB_K-TRAN-02
K-TRAN-02-LV	6.1 cal/cm²	457mm (18in)	1318mm (52in)	208VAC	Wednesday, December 24, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	K-1005C	K-LVSG-01_CB_K-TRAN-02
SF-PP-01	51.3 cal/cm²	457mm (18in)	4793mm (189in)	208VAC	Wednesday, December 24, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	SF-2000	K-DP-01_CB_SF-PP-01

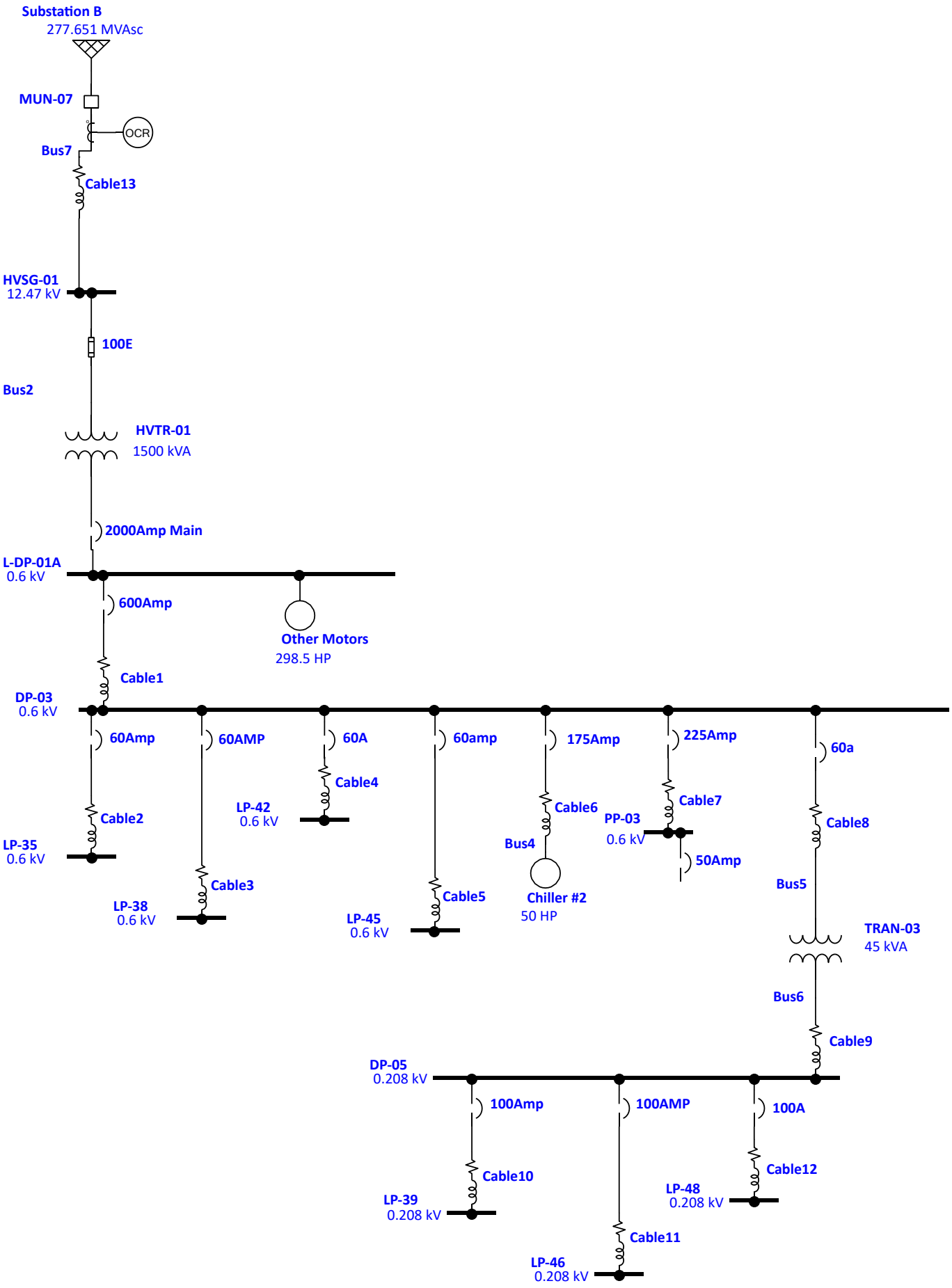
One-Line Diagram - OLV1 (Edit Mode)



One-Line Diagram - OLV1 (Edit Mode)



One-Line Diagram - OLV1 (Edit Mode)



Bus Arc Flash Hazard Analysis Summary

Faulted Bus				Fault Current			Trip Device							
ID	Nom. kV	Equipment Type	Gap (mm)	Bolted Fault (kA) Bus	Bolted Fault (kA) PD	PD Arc Fault (kA)	Source Trip Device ID	Trip (cycle)	Open (cycle)	FCT (cycle)	Arc Flash Boundary (ft)	Incident Energy (cal/cm²)	Working Distance (in)	Energy Level
ATS	0.600	Other	13	2.040	1.888	1.446	400Amp Genset	7581.47	0.00	7581.47	33.7	606.8	18	>Max.
DSW-03	0.600	Other	13	1.857	1.857	1.428	30amp	6.03	0.00	6.03	0.9	0.4	18	Level A
DSW-54	0.600	Other	13	1.860	1.860	1.430	40amp	11.08	0.00	11.08	1.2	0.8	18	Level A
EMG-01	0.600	Other	13	1.868	1.868	1.436	125Amp	66.58	0.00	66.58	3.0	4.9	18	Level C
EMG-02	0.208	Other	13	0.838	0.291	0.220	40Amp	461.03	0.00	461.03	5.1	13.9	18	Level D
EMG-03	0.208	Other	13	1.074	0.372	0.264	40Amp	318.01	0.00	318.01	4.7	11.7	18	Level D
EMG-06	0.208	Other	13	1.130	0.392	0.274	40amp	336.83	0.00	336.83	4.9	12.9	18	Level D
EMG-07	0.208	Other	13	1.544	0.535	0.346	30amp	113.26	0.00	113.26	3.2	5.6	18	Level C
EMG-08	0.208	Other	13	0.792	0.275	0.211	30AMP	319.18	0.00	319.18	4.2	9.2	18	Level D
EMG-09	0.208	Other	13	0.754	0.754	0.587	30Amp	28.94	0.00	28.94	1.2	0.8	18	Level A
EMG-10	0.208	Other	13	0.799	0.799	0.613	100Amp	479.74	0.00	479.74	5.1	14.0	18	Level D
L-DP-01A	0.600	Other	13	24.410	22.955	18.624	2000Amp Main	3.00	0.00	3.00	2.6	3.7	18	Level B
L-DP-04	0.600	Other	13	17.316	16.926	13.933	600Amp	1.50	0.00	1.50	1.6	1.3	18	Level A
L-DP-06	0.208	Other	13	3.810	1.321	0.674	100 AMP	730.10	0.00	730.10	11.8	74.0	18	Level F
L-DPE-01	0.600	Other	13	2.010	1.858	1.424	400Amp Main	6431.19	0.00	6431.19	30.8	507.0	18	>Max.
L-DPE-02	0.208	Other	13	1.218	0.422	0.290	40Amp	268.16	0.00	268.16	4.5	10.9	18	Level D
LP-08	0.600	Other	13	2.932	2.932	2.602	60amp	0.96	0.00	0.96	0.5	0.1	18	Level A
LP-09	0.600	Other	13	4.027	4.027	3.526	60AMP	0.96	0.00	0.96	0.6	0.2	18	Level A
LP-22	0.600	Other	13	3.014	3.014	2.672	60Amp	0.96	0.00	0.96	0.5	0.1	18	Level A
LP-23	0.600	Other	13	5.438	5.438	4.701	60A	0.96	0.00	0.96	0.7	0.3	18	Level A
LP-24	0.600	Other	13	2.932	2.932	2.602	60a	0.96	0.00	0.96	0.5	0.1	18	Level A
LP-34	0.600	Other	13	7.707	7.707	6.565	60 AmP	0.96	0.00	0.96	0.8	0.4	18	Level A
LP-36	0.600	Other	13	6.070	6.070	5.223	60 AMp	0.96	0.00	0.96	0.7	0.3	18	Level A
LP-37	0.208	Other	13	2.389	2.389	1.376	100amp	285.36	0.00	285.36	6.1	19.9	18	Level D
LP-40	0.208	Other	13	2.320	2.320	1.347	100AMP	297.23	0.00	297.23	6.2	20.3	18	Level D
LP-41	0.600	Other	13	9.559	9.559	8.068	60 amP	0.96	0.00	0.96	0.9	0.5	18	Level A
LP-43	0.208	Other	13	2.702	2.702	1.507	100 Amp	240.33	0.00	240.33	5.9	18.5	18	Level D
LP-44	0.600	Other	13	7.707	7.707	6.565	60 aMp	0.96	0.00	0.96	0.8	0.4	18	Level A
LP-47	0.208	Other	13	2.702	2.702	1.507	100 amp	240.33	0.00	240.33	5.9	18.5	18	Level D
LP-49	0.208	Other	13	3.610	3.610	1.867	125AMP	261.52	0.00	261.52	6.9	25.4	18	Level E
PP-02	0.600	Other	13	15.702	15.702	12.979	225Amp	1.50	0.00	1.50	1.5	1.2	18	Level A
PP-07	0.208	Other	13	1.826	0.633	0.391	50Amp	430.36	0.00	430.36	6.7	24.2	18	Level D
UPS-01	0.208	Other	13	1.146	0.397	0.277	40amp	329.32	0.00	329.32	4.9	12.8	18	Level D

Bus Arc Flash Hazard Analysis Summary

Faulted Bus				Fault Current			Trip Device							
ID	Nom. kV	Equipment Type	Gap (mm)	Bolted Fault (kA) Bus	Bolted Fault (kA) PD	PD Arc Fault (kA)	Source Trip Device ID	Trip (cycle)	Open (cycle)	FCT (cycle)	Arc Flash Boundary (ft)	Incident Energy (cal/cm²)	Working Distance (in)	Energy Level
EMG-04	0.600	Other	13	5.206	5.206	4.509	125Amp	0.87	0.00	0.87	0.6	0.2	18	Level A
EMG-05	0.600	Other	13	10.189	10.085	8.489	400Amp Main	0.78	0.00	0.78	0.9	0.4	18	Level A

Bus Arc Flash Hazard Analysis Summary

Faulted Bus				Fault Current			Trip Device							
ID	Nom. kV	Equipment Type	Gap (mm)	Bolted Fault (kA) Bus	Bolted Fault (kA) PD	PD Arc Fault (kA)	Source Trip Device ID	Trip (cycle)	Open (cycle)	FCT (cycle)	Arc Flash Boundary (ft)	Incident Energy (cal/cm²)	Working Distance (in)	Energy Level
DSW-01	0.600	Other	13	24.002	24.002	19.487	100amp	0.96	0.00	0.96	1.5	1.2	18	Level A
HTP-01	0.600	Other	13	4.969	4.969	4.312	100 AMP	0.96	0.00	0.96	0.7	0.2	18	Level A
L-DP-01A	0.600	Other	13	24.559	22.955	18.619	2000Amp Main	3.00	0.00	3.00	2.7	3.8	18	Level B
L-DP-01B	0.600	Other	13	24.504	22.902	18.578	2000Amp Main	3.00	0.00	3.00	2.7	3.8	18	Level B
L-DP-02	0.208	Other	13	18.280	6.337	2.145	600Amp	3214.26	0.00	3214.26	46.2	1139.3	18	>Max.
L-DP-07	0.600	Other	13	14.301	13.899	11.534	300Amp	1.50	0.00	1.50	1.4	1.1	18	Level A
LP-01	0.208	Other	13	3.270	3.270	1.736	150amp	408.36	0.00	408.36	8.3	36.6	18	Level E
LP-02	0.208	Other	13	1.837	1.837	1.134	100 amP	424.89	0.00	424.89	6.7	24.0	18	Level D
LP-03	0.208	Other	13	3.663	3.663	1.887	100amP	164.38	0.00	164.38	5.5	16.1	18	Level D
LP-04	0.208	Other	13	2.487	2.487	1.418	125AMP	424.38	0.00	424.38	7.6	30.6	18	Level E
LP-05	0.600	Other	13	7.456	7.456	6.360	60AMp	0.96	0.00	0.96	0.8	0.4	18	Level A
LP-06	0.208	Other	13	2.107	2.107	1.255	125 AMP	538.86	0.00	538.86	8.0	34.0	18	Level E
LP-07	0.600	Other	13	7.849	7.849	6.681	125Amp	1.50	0.00	1.50	1.0	0.6	18	Level A
LP-10	0.208	Other	13	10.070	10.070	4.687	100AmP	1.13	0.00	1.13	0.7	0.3	18	Level A
LP-11	0.208	Other	13	1.610	1.610	1.028	100A	514.10	0.00	514.10	7.0	26.2	18	Level E
LP-13	0.208	Other	13	1.446	1.446	0.950	40Amp	19.50	0.00	19.50	1.3	0.9	18	Level A
LP-14	0.600	Other	13	5.713	5.713	4.929	100 Amp	0.96	0.00	0.96	0.7	0.3	18	Level A
LP-15	0.208	Other	13	2.075	2.075	1.240	125A	551.19	0.00	551.19	8.0	34.4	18	Level E
LP-16	0.208	Other	13	5.956	5.956	2.703	150 Amp	178.80	0.00	178.80	7.0	25.9	18	Level E
LP-17	0.208	Other	13	5.863	5.863	3.143	100 A	1.19	0.00	1.19	0.6	0.2	18	Level A
LP-18	0.208	Other	13	9.281	9.281	4.413	200 Amp	1.41	0.00	1.41	0.8	0.3	18	Level A
LP-19	0.208	Other	13	2.077	2.077	1.241	100a	357.10	0.00	357.10	6.5	22.3	18	Level D
LP-20	0.208	Other	13	4.489	4.489	2.580	200 amp	1.41	0.00	1.41	0.6	0.2	18	Level A
LP-21	0.600	Other	13	5.436	5.436	4.699	60 Amp	0.96	0.00	0.96	0.7	0.3	18	Level A
LP-25	0.600	Other	13	7.461	7.461	6.364	60Amp	0.96	0.00	0.96	0.8	0.4	18	Level A
LP-26	0.600	Other	13	3.394	3.394	2.993	60AMP	0.96	0.00	0.96	0.5	0.2	18	Level A
LP-27	0.208	Other	13	4.570	4.570	2.222	125 A	183.20	0.00	183.20	6.3	21.5	18	Level D
LP-28	0.600	Other	13	3.146	3.146	2.783	60amp	0.96	0.00	0.96	0.5	0.1	18	Level A
LP-29	0.600	Other	13	2.854	2.854	2.535	60A	0.96	0.00	0.96	0.5	0.1	18	Level A
LP-30	0.208	Other	13	2.738	2.738	1.522	125a	370.33	0.00	370.33	7.3	28.8	18	Level E
LP-31	0.208	Other	13	5.754	5.754	2.635	125 a	1.73	0.00	1.73	0.7	0.2	18	Level A
LP-32	0.208	Other	13	1.885	1.885	1.156	100AMp	409.35	0.00	409.35	6.7	23.6	18	Level D
LP-33	0.208	Other	13	4.192	4.192	2.085	100 AmP	1.76	0.00	1.76	0.6	0.2	18	Level A
LP-50	0.600	Other	13	6.384	6.384	5.481	60 amp	0.96	0.00	0.96	0.7	0.3	18	Level A

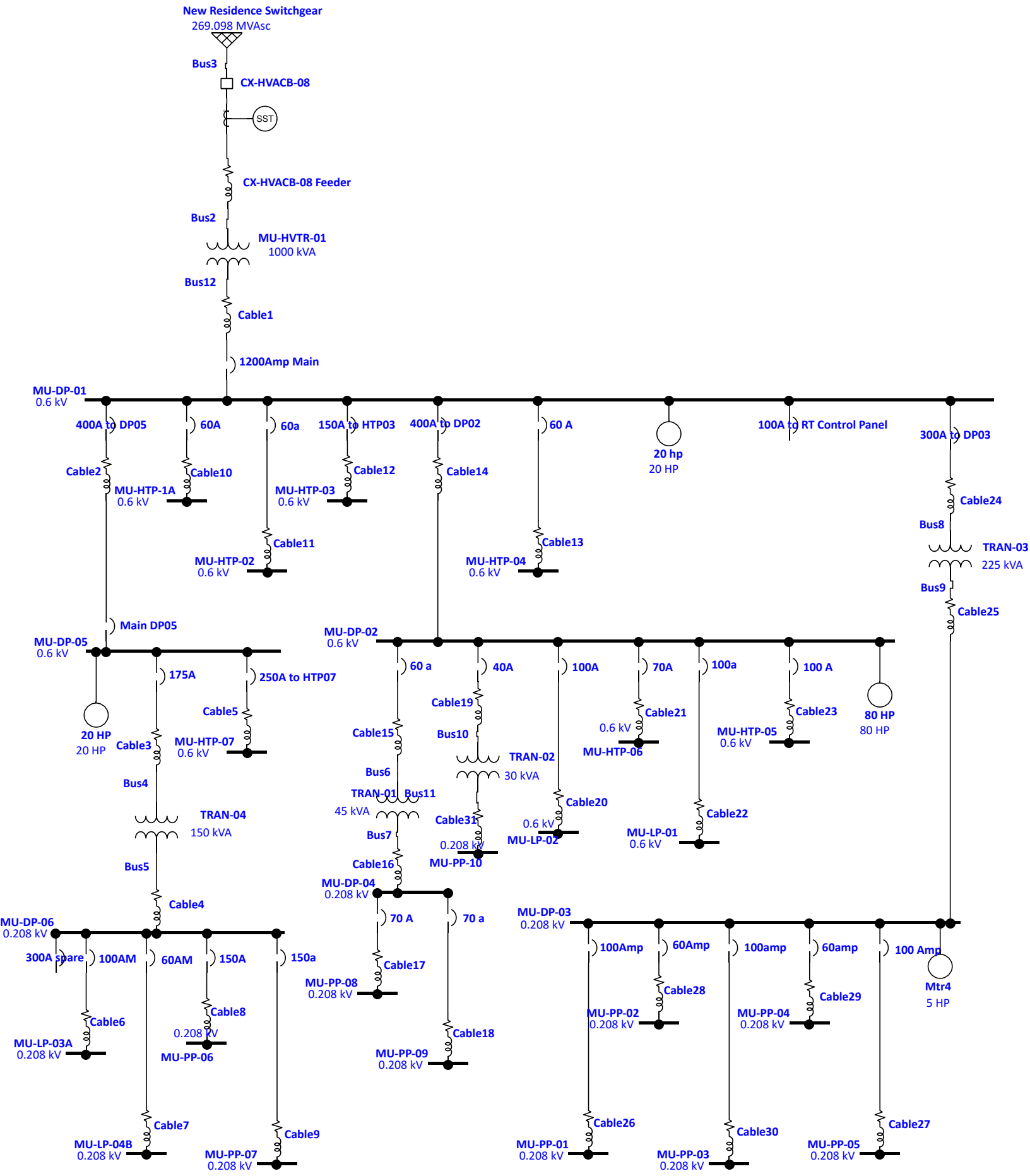
Bus Arc Flash Hazard Analysis Summary

Faulted Bus				Fault Current			Trip Device							
ID	Nom. kV	Equipment Type	Gap (mm)	Bolted Fault (kA) Bus	Bolted Fault (kA) PD	PD Arc Fault (kA)	Source Trip Device ID	Trip (cycle)	Open (cycle)	FCT (cycle)	Arc Flash Boundary (ft)	Incident Energy (cal/cm²)	Working Distance (in)	Energy Level
LP-51	0.208	Other	13	2.782	2.782	1.540	150 AMP	515.32	0.00	515.32	8.7	40.6	18	Level F
LP-52	0.208	Other	13	1.494	1.494	0.973	100 amp	202.09	0.00	202.09	4.3	9.7	18	Level D
MCC	0.600	Other	13	11.769	11.675	9.768	100Amp	0.60	0.00	0.60	0.8	0.4	18	Level A
PP-01	0.600	Other	13	20.554	20.554	16.797	200Amp	1.50	0.00	1.50	1.7	1.6	18	Level A
PP-05	0.208	Other	13	1.448	1.448	0.951	100AMP	155.09	0.00	155.09	3.7	7.3	18	Level C
PP-06	0.208	Other	13	2.078	0.720	0.430	60A Fuse	62.71	0.00	62.71	2.7	3.9	18	Level B
PP-08	0.208	Other	13	4.666	4.666	2.655	100 AMp	1.13	0.00	1.13	0.5	0.2	18	Level A
PP-09	0.208	Other	13	1.294	1.294	1.030	30Amp	0.50	0.00	0.50	0.2	0.0	18	Level A

Bus Arc Flash Hazard Analysis Summary

Faulted Bus				Fault Current			Trip Device							
ID	Nom. kV	Equipment Type	Gap (mm)	Bolted Fault (kA) Bus	Bolted Fault (kA) PD	PD Arc Fault (kA)	Source Trip Device ID	Trip (cycle)	Open (cycle)	FCT (cycle)	Arc Flash Boundary (ft)	Incident Energy (cal/cm²)	Working Distance (in)	Energy Level
DP-03	0.600	Other	13	15.035	14.795	12.251	600Amp	1.50	0.00	1.50	1.5	1.1	18	Level A
DP-05	0.208	Other	13	2.353	0.816	0.472	60a	557.50	0.00	557.50	8.5	38.4	18	Level E
HVSG-01	12.470	Other	13	10.145	10.073	9.774	MUN-07	0.96	5.00	5.96	2.1	2.3	18	Level B
L-DP-01A	0.600	Other	13	24.557	22.955	18.619	2000Amp Main	3.00	0.00	3.00	2.7	3.8	18	Level B
LP-35	0.600	Other	13	5.109	5.109	4.428	60Amp	0.96	0.00	0.96	0.7	0.2	18	Level A
LP-38	0.600	Other	13	5.353	5.353	4.630	60AMP	0.96	0.00	0.96	0.7	0.2	18	Level A
LP-39	0.208	Other	13	1.673	1.673	1.058	100Amp	470.44	0.00	470.44	6.8	24.7	18	Level D
LP-42	0.600	Other	13	5.483	5.483	4.738	60A	0.96	0.00	0.96	0.7	0.3	18	Level A
LP-45	0.600	Other	13	9.438	9.438	7.971	60amp	0.96	0.00	0.96	0.9	0.4	18	Level A
LP-46	0.208	Other	13	2.050	2.050	1.229	100AMP	353.43	0.00	353.43	6.4	21.8	18	Level D
LP-48	0.208	Other	13	2.221	2.221	1.304	100A	315.96	0.00	315.96	6.2	20.8	18	Level D
PP-03	0.600	Other	13	13.770	13.770	11.445	225Amp	1.50	0.00	1.50	1.4	1.0	18	Level A

One-Line Diagram - OLV1 (Edit Mode)

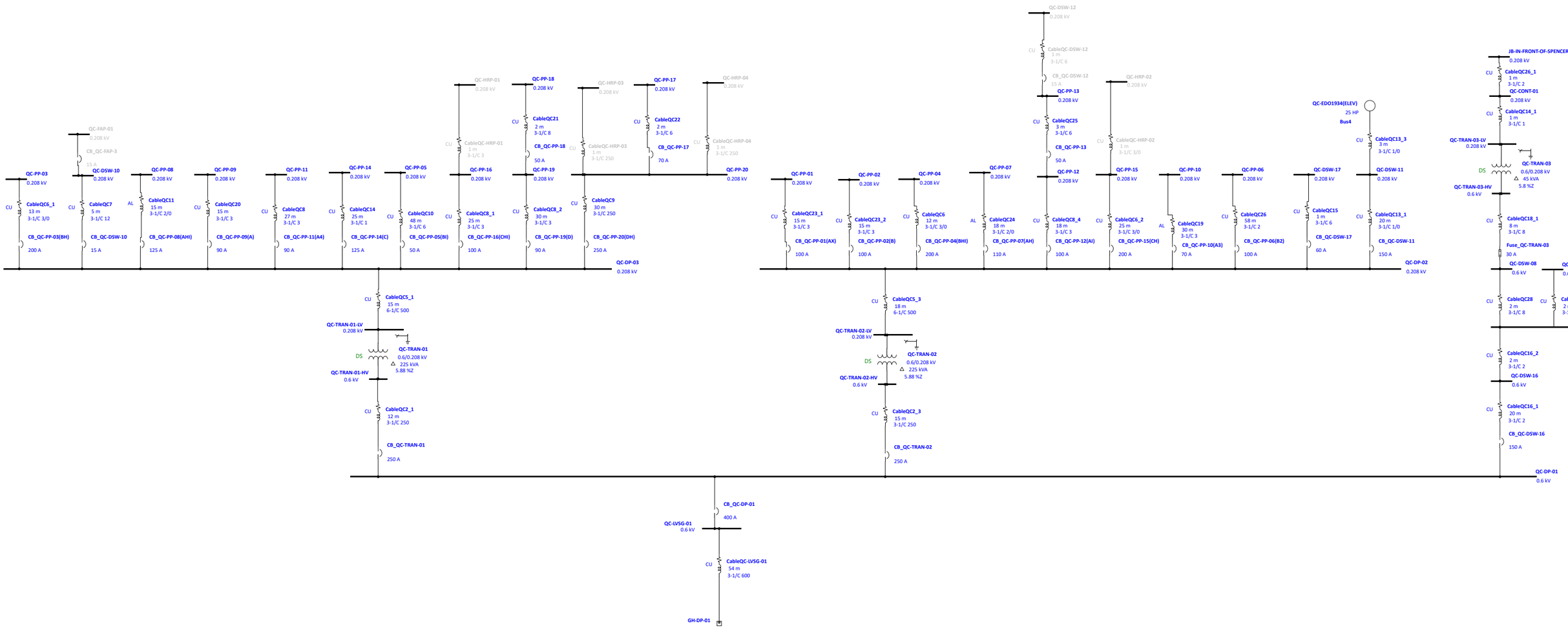


Bus Arc Flash Hazard Analysis Summary

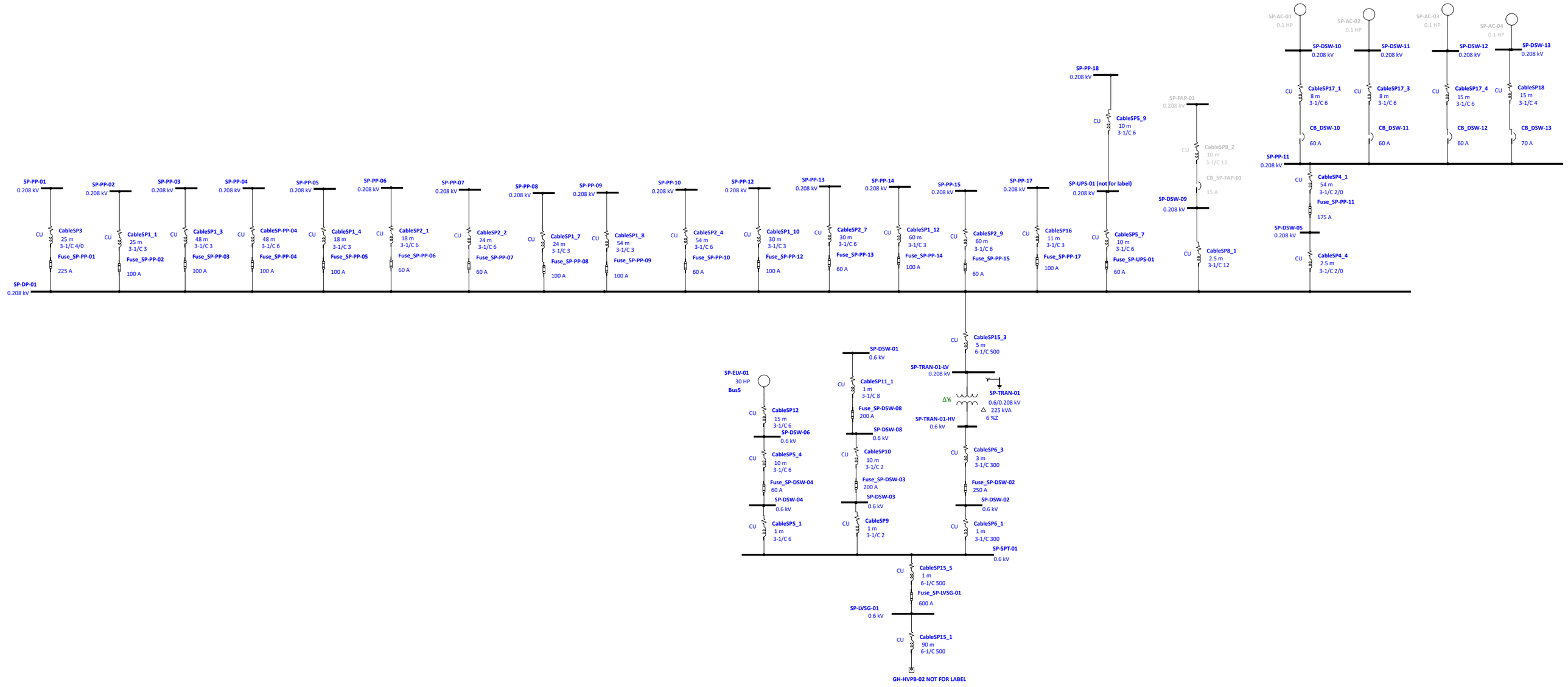
Faulted Bus				Fault Current			Trip Device							
ID	Nom. kV	Equipment Type	Gap (mm)	Bolted Fault (kA) Bus	Bolted Fault (kA) PD	PD Arc Fault (kA)	Source Trip Device ID	Trip (cycle)	Open (cycle)	FCT (cycle)	Arc Flash Boundary (ft)	Incident Energy (cal/cm²)	Working Distance (in)	Energy Level
MU-DP-01	0.600	Other	13	16.101	15.511	12.807	1200Amp Main	7.50	0.00	7.50	3.4	6.1	18	Level C
MU-DP-02	0.600	Other	13	13.081	12.665	10.549	400A to DP02	0.96	0.00	0.96	1.1	0.6	18	Level A
MU-DP-03	0.208	Other	13	8.776	3.023	1.240	300A to DP03	1.31	0.00	1.31	0.7	0.3	18	Level A
MU-DP-04	0.208	Other	13	2.167	0.751	0.444	60 a	173.96	0.00	173.96	4.6	11.2	18	Level D
MU-DP-05	0.600	Other	13	9.746	9.669	8.155	Main DP05	0.79	0.00	0.79	0.8	0.4	18	Level A
MU-DP-06	0.208	Other	13	8.124	2.816	1.178	175A	626.43	0.00	626.43	14.8	116.2	18	Level G
MU-HTP-1A	0.600	Other	13	4.120	4.120	3.603	60A	0.83	0.00	0.83	0.6	0.2	18	Level A
MU-HTP-02	0.600	Other	13	5.190	5.190	4.496	60a	0.81	0.00	0.81	0.6	0.2	18	Level A
MU-HTP-03	0.600	Other	13	8.998	8.998	7.615	150A to HTP03	0.50	0.00	0.50	0.6	0.2	18	Level A
MU-HTP-04	0.600	Other	13	2.506	2.506	2.239	60 A	0.90	0.00	0.90	0.4	0.1	18	Level A
MU-HTP-05	0.600	Other	13	8.455	8.455	7.174	100 A	0.76	0.00	0.76	0.8	0.3	18	Level A
MU-HTP-06	0.600	Other	13	5.075	5.075	4.400	70A	0.82	0.00	0.82	0.6	0.2	18	Level A
MU-HTP-07	0.600	Other	13	9.068	8.995	7.610	Main DP05	0.81	0.00	0.81	0.8	0.4	18	Level A
MU-LP-01	0.600	Other	13	7.784	7.784	6.627	100a	0.77	0.00	0.77	0.7	0.3	18	Level A
MU-LP-02	0.600	Other	13	7.784	7.784	6.627	100A	0.77	0.00	0.77	0.7	0.3	18	Level A
MU-LP-03A	0.208	Other	13	5.849	5.849	3.138	100AM	1.05	0.00	1.05	0.6	0.2	18	Level A
MU-LP-04B	0.208	Other	13	4.127	4.127	2.425	60AM	1.07	0.00	1.07	0.5	0.1	18	Level A
MU-PP-01	0.208	Other	13	3.508	3.508	2.151	100Amp	1.00	0.00	1.00	0.5	0.1	18	Level A
MU-PP-02	0.208	Other	13	1.075	1.075	0.763	60Amp	80.24	0.00	80.24	2.4	3.0	18	Level B
MU-PP-03	0.208	Other	13	3.280	3.280	2.047	100amp	1.00	0.00	1.00	0.4	0.1	18	Level A
MU-PP-04	0.208	Other	13	4.780	4.780	2.703	60amp	1.00	0.00	1.00	0.5	0.1	18	Level A
MU-PP-05	0.208	Other	13	8.227	8.227	4.037	100 Amp	1.00	0.00	1.00	0.6	0.2	18	Level A
MU-PP-06	0.208	Other	13	4.715	4.715	2.676	150A	1.10	0.00	1.10	0.5	0.2	18	Level A
MU-PP-07	0.208	Other	13	4.078	4.078	2.404	150a	1.17	0.00	1.17	0.5	0.1	18	Level A
MU-PP-08	0.208	Other	13	1.227	1.227	0.990	70 A	1.00	0.00	1.00	0.3	0.0	18	Level A
MU-PP-09	0.208	Other	13	1.284	1.284	1.023	70 a	1.00	0.00	1.00	0.3	0.1	18	Level A
MU-PP-10	0.208	Other	13	2.460	0.853	0.488	40A	90.41	0.00	90.41	3.5	6.5	18	Level C

Arc Flash Labels for Panels

VDP_TAG	VDP_INCIDENT	VDP_WORKING	VDP_ARCFLASH	VDP_NOMINAL	VDP_PERFORMED	VDP_Limited	VDP_Restricted	VDP_Gloves	VDP_Equipment	VDP_Location	VDP_Fed From
QC-DP-01	0.2 cal/cm²	610mm (24in)	184mm (7in)	600VAC	Monday, January 26, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	QC-2012A	QC-LVSG-01_CB_QC-DP-01
QC-DP-02	0.3 cal/cm²	610mm (24in)	256mm (10in)	208VAC	Monday, January 26, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	QC-2012A	QC-DP-01_CB_QC-TRAN-02
QC-DP-03	0.3 cal/cm²	610mm (24in)	249mm (10in)	208VAC	Monday, January 26, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	QC-2012A	QC-DP-01_CB_QC-TRAN-01
QC-DSW-08	0.2 cal/cm²	457mm (18in)	152mm (6in)	600VAC	Monday, January 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	QC-1011	QC-DP-01_CB_QC-DSW-16
QC-DSW-09	0.2 cal/cm²	457mm (18in)	153mm (6in)	600VAC	Monday, January 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	QC-1011	QC-DP-01_CB_QC-DSW-16
QC-DSW-10	0 cal/cm²	457mm (18in)	59mm (2in)	208VAC	Monday, January 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	QC-2012A	QC-DP-03_CB_QC-DSW-10
QC-DSW-11	22.8 cal/cm²	457mm (18in)	2883mm (114in)	208VAC	Monday, January 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	QC-1020B	QC-DP-02_CB_QC-DSW-11
QC-DSW-16	0.2 cal/cm²	457mm (18in)	158mm (6in)	600VAC	Monday, January 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	QC-1011	QC-DP-01_CB_QC-DSW-16
QC-DSW-17	0.1 cal/cm²	457mm (18in)	109mm (4in)	208VAC	Monday, January 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	QC-1004	QC-DP-02_CB_QC-DSW-17
QC-LVSG-01	0.2 cal/cm²	610mm (24in)	184mm (7in)	600VAC	Monday, January 26, 2026	1.1m (42in)	305mm (12in)	0	Switchgear	QC-2012A	GH-DP-01_CB_QUEENS COLLEGE
QC-PP-01	5.5 cal/cm²	457mm (18in)	1187mm (47in)	208VAC	Monday, January 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	QC-2012A	QC-DP-02_CB_QC-PP-01(AX)
QC-PP-02	5.5 cal/cm²	457mm (18in)	1187mm (47in)	208VAC	Monday, January 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	QC-2012A	QC-DP-02_CB_QC-PP-02(B)
QC-PP-03	22.9 cal/cm²	457mm (18in)	2894mm (114in)	208VAC	Monday, January 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	QC-2012A	QC-DP-03_CB_QC-PP-03(BH)
QC-PP-04	23.5 cal/cm²	457mm (18in)	2943mm (116in)	208VAC	Monday, January 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	QC-2012A	QC-DP-02_CB_QC-PP-04(BHI)
QC-PP-05	3.8 cal/cm²	457mm (18in)	932mm (37in)	208VAC	Monday, January 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	QC-2011	QC-DP-03_CB_QC-PP-05(BI)
QC-PP-06	9.4 cal/cm²	457mm (18in)	1661mm (65in)	208VAC	Monday, January 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	QC-2C01	QC-DP-02_CB_QC-PP-06(B2)
QC-PP-07	14.1 cal/cm²	457mm (18in)	2133mm (84in)	208VAC	Monday, January 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	QC-1C02	QC-DP-02_CB_QC-PP-07(AH)
QC-PP-08	16.7 cal/cm²	457mm (18in)	2370mm (93in)	208VAC	Monday, January 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	QC-1C02	QC-DP-03_CB_QC-PP-08(AHI)
QC-PP-09	4.2 cal/cm²	457mm (18in)	1004mm (40in)	208VAC	Monday, January 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	QC-1C02	QC-DP-03_CB_QC-PP-09(A)
QC-PP-10	5.8 cal/cm131	457mm (18in)	1230mm (48in)	208VAC	Monday, January 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	QC-1017	QC-DP-02_CB_QC-PP-10(A3)
QC-PP-11	6.4 cal/cm132	457mm (18in)	1304mm (51in)	208VAC	Monday, January 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	QC-1015	QC-DP-03_CB_QC-PP-11(A4)
QC-PP-12	6.2 cal/cm133	457mm (18in)	1281mm (50in)	208VAC	Monday, January 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	QC-1020A	QC-DP-02_CB_QC-PP-12(AI)
QC-PP-13	0.1 cal/cm134	457mm (18in)	63mm (2in)	208VAC	Monday, January 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	QC-1020A	QC-PP-12_CB_QC-PP-13
QC-PP-14	18.5 cal/cm135	457mm (18in)	2531mm (100in)	208VAC	Monday, January 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	QC-3C01	QC-DP-03_CB_QC-PP-14(C)
QC-PP-15	28.1 cal/cm136	457mm (18in)	3290mm (130in)	208VAC	Monday, January 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	QC-3013	QC-DP-02_CB_QC-PP-15(CH)
QC-PP-16	14.3 cal/cm137	457mm (18in)	2154mm (85in)	208VAC	Monday, January 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	QC-3013	QC-DP-03_CB_QC-PP-16(CHI)
QC-PP-17	0.1 cal/cm138	457mm (18in)	84mm (3in)	208VAC	Monday, January 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	QC-4022	QC-PP-20_CB_QC-PP-17
QC-PP-18	0 cal/cm139	457mm (18in)	36mm (1in)	208VAC	Monday, January 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	QC-4022	QC-PP-19_CB_QC-PP-18
QC-PP-19	6.8 cal/cm140	457mm (18in)	1357mm (53in)	208VAC	Monday, January 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	QC-4018A	QC-DP-03_CB_QC-PP-19(D)
QC-PP-20	26.9 cal/cm141	457mm (18in)	3199mm (126in)	208VAC	Monday, January 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	QC-4018A	QC-DP-03_CB_QC-PP-20(DH)
QC-SPT-01	0.2 cal/cm142	457mm (18in)	157mm (6in)	600VAC	Monday, January 26, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	QC-1011	QC-DP-01_CB_QC-DSW-16
QC-TRAN-01-HV	0.2 cal/cm143	457mm (18in)	154mm (6in)	600VAC	Monday, January 26, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	QC-2012A	QC-DP-01_CB_QC-TRAN-01
QC-TRAN-01-LV	0.4 cal/cm144	457mm (18in)	221mm (9in)	208VAC	Monday, January 26, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	QC-2012A	QC-DP-01_CB_QC-TRAN-01
QC-TRAN-02-HV	0.2 cal/cm145	457mm (18in)	153mm (6in)	600VAC	Monday, January 26, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	QC-2012A	QC-DP-01_CB_QC-TRAN-02
QC-TRAN-02-LV	0.4 cal/cm146	457mm (18in)	225mm (9in)	208VAC	Monday, January 26, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	QC-2012A	QC-DP-01_CB_QC-TRAN-02
QC-TRAN-03-HV	0.1 cal/cm147	457mm (18in)	88mm (3in)	600VAC	Monday, January 26, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	QC-1020A	QC-DSW-08_Fuse_QC-TRAN-03
QC-TRAN-03-LV	1.1 cal/cm148	457mm (18in)	434mm (17in)	208VAC	Monday, January 26, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	QC-1020A	QC-DSW-08_Fuse_QC-TRAN-03


QC-PP-03
0.208 kV
CableQC6_1
13 m
3-1/C 3/0
CB_QC-PP-03(BH)
200 A
QC-FAP-01
0.208 kV
CB_QC-FAP-3
15 A
QC-DSW-10
0.208 kV
CableQC7
5 m
3-1/C 12
CB_QC-DSW-10
15 A
QC-PP-08
0.208 kV
CableQC11
15 m
3-1/C 2/0
CB_QC-PP-08(AHI)
125 A
QC-PP-09
0.208 kV
CableQC20
15 m
3-1/C 3
CB_QC-PP-09(A)
90 A
QC-PP-11
0.208 kV
CableQC8
27 m
3-1/C 3
CB_QC-PP-11(A4)
90 A
QC-PP-14
0.208 kV
CableQC14
25 m
3-1/C 1
CB_QC-PP-14(C)
125 A
QC-PP-05
0.208 kV
CableQC10
48 m
3-1/C 6
CB_QC-PP-05(BI)
50 A
QC-HRP-01
0.208 kV
CableQC-HRP-01
1 m
3-1/C 3
QC-PP-16
0.208 kV
CableQC8_1
25 m
3-1/C 3
CB_QC-PP-16(CHI)
100 A
QC-PP-18
0.208 kV
CableQC21
2 m
3-1/C 8
CB_QC-PP-18
50 A
QC-PP-19
0.208 kV
CableQC8_2
30 m
3-1/C 3
CB_QC-PP-19(D)
90 A
QC-HRP-03
0.208 kV
CableQC-HRP-03
1 m
3-1/C 250
QC-PP-17
0.208 kV
CableQC22
2 m
3-1/C 6
CB_QC-PP-17
70 A
QC-HRP-04
0.208 kV
CableQC-HRP-04
1 m
3-1/C 250
QC-PP-20
0.208 kV
CableQC9
30 m
3-1/C 250
CB_QC-PP-20(DH)
250 A
QC-DP-03
0.208 kV
CableQC5_1
15 m
6-1/C 500
QC-TRAN-01-LV
0.208 kV
QC-TRAN-01
0.6/0.208 kV
225 kVA
5.88 %Z
DS
QC-TRAN-01-HV
0.6 kV
CableQC2_1
12 m
3-1/C 250
CB_QC-TRAN-01
250 A
QC-DSW-12
0.208 kV
CableQC-DSW-12
1 m
3-1/C 6
CB_QC-DSW-12
15 A
QC-PP-13
0.208 kV
CableQC25
3 m
3-1/C 6
CB_QC-PP-13
50 A
QC-PP-12
0.208 kV
CableQC8_4
18 m
3-1/C 3
CB_QC-PP-12(AI)
100 A
QC-HRP-02
0.208 kV
CableQC-HRP-02
1 m
3-1/C 3/0
QC-PP-15
0.208 kV
CableQC6_2
25 m
3-1/C 3/0
CB_QC-PP-15(CH)
200 A
QC-PP-01
0.208 kV
CableQC23_1
15 m
3-1/C 3
CB_QC-PP-01(AX)
100 A
QC-PP-02
0.208 kV
CableQC23_2
15 m
3-1/C 3
CB_QC-PP-02(B)
100 A
QC-PP-04
0.208 kV
CableQC6
12 m
3-1/C 3/0
CB_QC-PP-04(BHI)
200 A
QC-PP-07
0.208 kV
CableQC24
18 m
3-1/C 2/0
CB_QC-PP-07(AH)
110 A
QC-PP-10
0.208 kV
CableQC19
30 m
3-1/C 3
CB_QC-PP-10(A3)
70 A
QC-PP-06
0.208 kV
CableQC26
58 m
3-1/C 2
CB_QC-PP-06(B2)
100 A
QC-DSW-17
0.208 kV
CableQC15
1 m
3-1/C 6
CB_QC-DSW-17
60 A
QC-EDO1934(ELEV)
25 HP
Bus4
CableQC13_3
3 m
3-1/C 1/0
QC-DSW-11
0.208 kV
CableQC13_1
20 m
3-1/C 1/0
CB_QC-DSW-11
150 A
QC-DP-02
0.208 kV
CableQC5_3
18 m
6-1/C 500
QC-TRAN-02-LV
0.208 kV
QC-TRAN-02
0.6/0.208 kV
225 kVA
5.88 %Z
QC-TRAN-02-HV
0.6 kV
CableQC2_3
15 m
3-1/C 250
CB_QC-TRAN-02
250 A
CB_QC-DP-01
400 A
QC-LVSG-01
0.6 kV
CableQC-LVSG-01
54 m
3-1/C 600
GH-DP-01
JB-IN-FRONT-OF-SPENCER
0.208 kV
CableQC26_1
1 m
3-1/C 2
QC-CONT-01
0.208 kV
CableQC14_1
1 m
3-1/C 1
QC-TRAN-03-LV
0.208 kV
QC-TRAN-03
0.6/0.208 kV
45 kVA
5.8 %Z
QC-TRAN-03-HV
0.6 kV
CableQC18_1
8 m
3-1/C 8
Fuse_QC-TRAN-03
30 A
QC-DSW-08
0.6 kV
QC-DSW-09
0.6 kV
CableQC28
2 m
3-1/C 8
CableQC17_1
2 m
3-1/C 6
QC-SPT-01
0.6 kV
CableQC16_2
2 m
3-1/C 2
QC-DSW-16
0.6 kV
CableQC16_1
20 m
3-1/C 2
CB_QC-DSW-16
150 A
QC-DP-01
0.6 kV

One-Line Diagram - GH->SP | Edit Mode

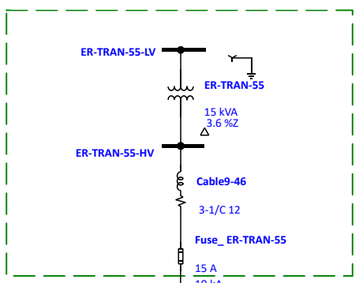


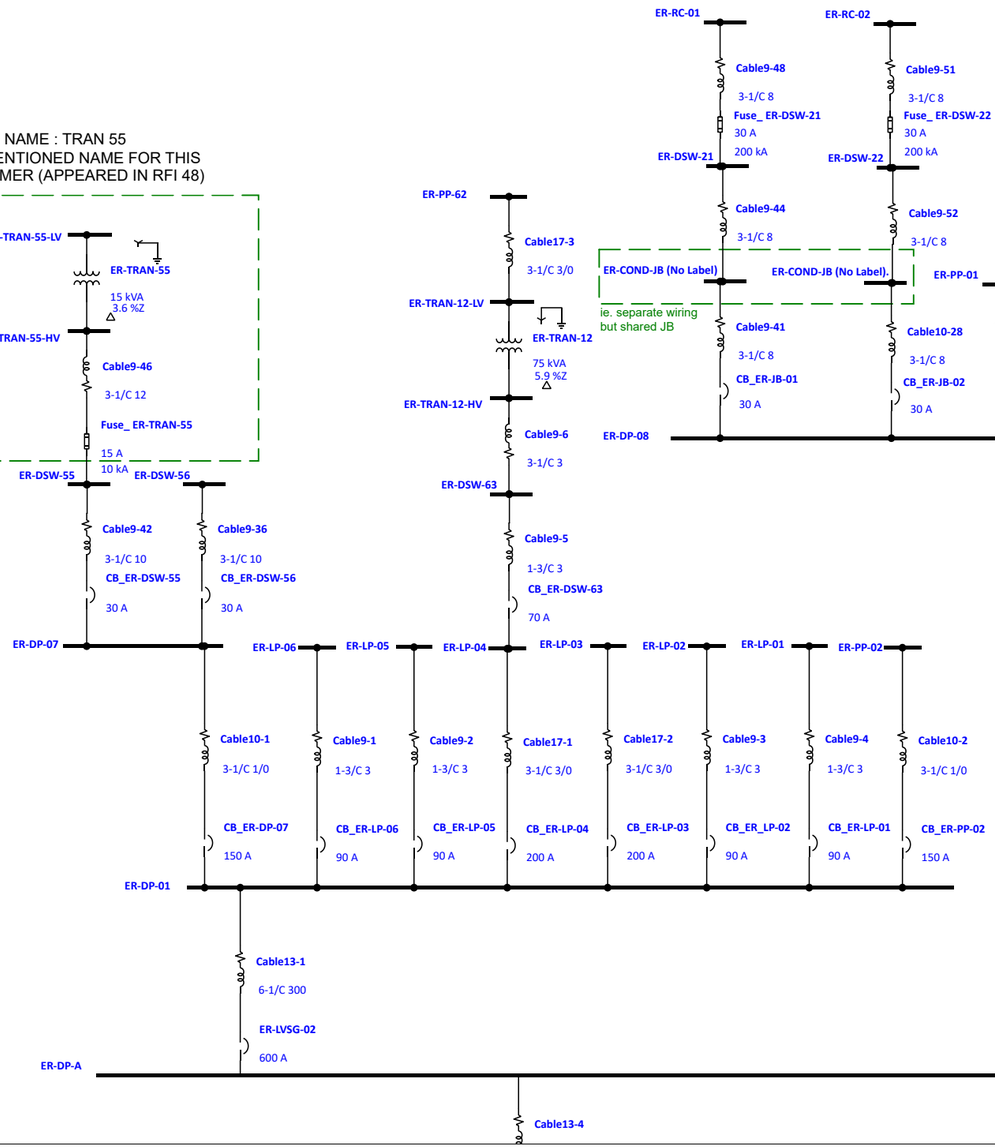
Arc Flash Labels for Panels

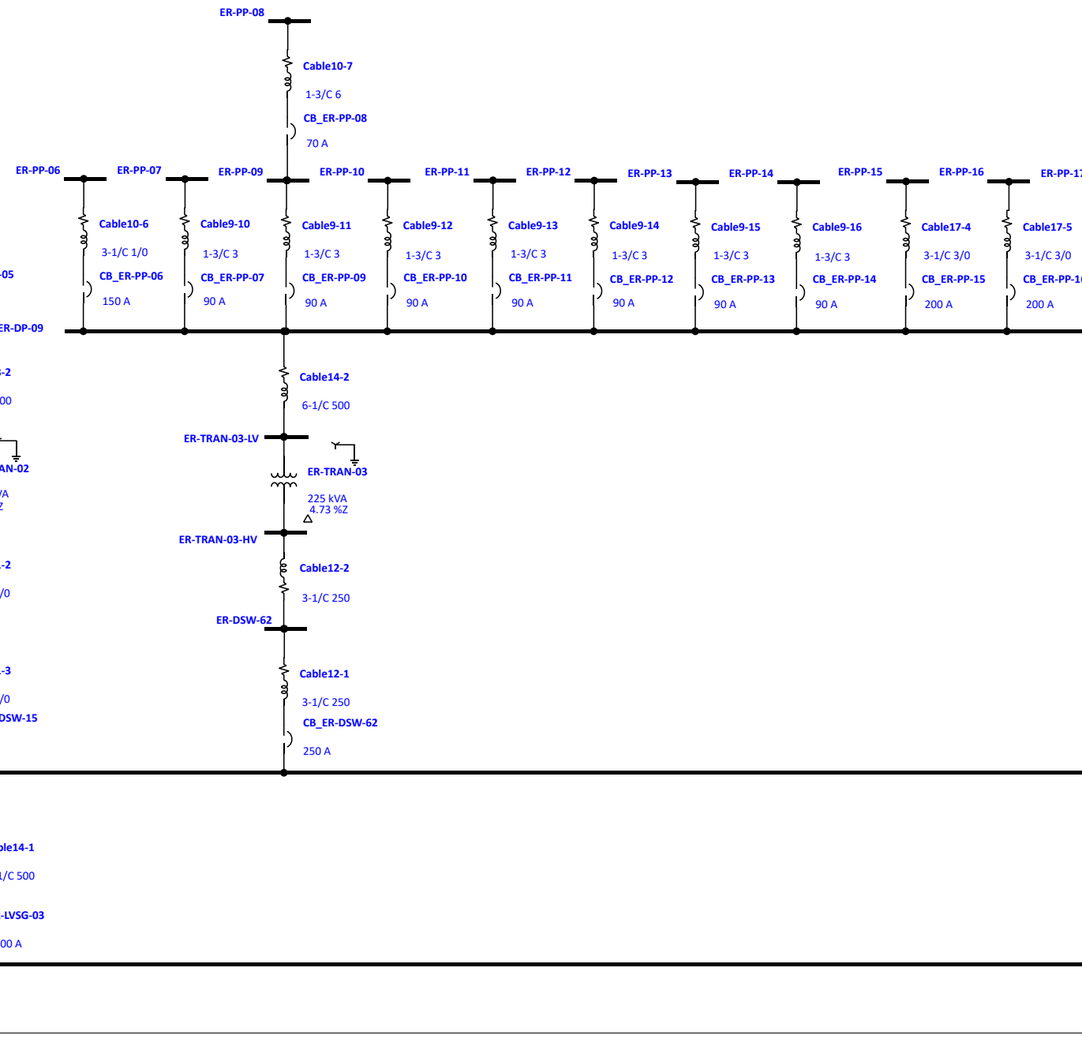
VDP_TAG	VDP_INCIDENT	VDP_WORKING	VDP_ARCFLASH	VDP_NOMINAL	VDP_PERFORMED	VDP_Limited	VDP_Restricted	VDP_Gloves	VDP_Equipment	VDP_Location	VDP_Fed From
SP-DP-01	51.69 cal/cm²	610mm (24in)	6419mm (253in)	208VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Switchboard	SP-004	SP-DSW-02_Fuse_SP-DSW-02
SP-DSW-01	0.18 cal/cm²	457mm (18in)	138mm (5in)	600VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	SP-002	SP-DSW-08_Fuse_SP-DSW-08
SP-DSW-02	0.27 cal/cm²	457mm (18in)	179mm (7in)	600VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	SP-002	SP-LVSG-01_Fuse_SP-LVSG-01
SP-DSW-03	0.27 cal/cm²	457mm (18in)	178mm (7in)	600VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	SP-002	SP-LVSG-01_Fuse_SP-LVSG-01
SP-DSW-04	0.26 cal/cm²	457mm (18in)	177mm (7in)	600VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	SP-002	SP-LVSG-01_Fuse_SP-LVSG-01
SP-DSW-05	72.66 cal/cm²	457mm (18in)	5958mm (235in)	208VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	SP-003	SP-DSW-02_Fuse_SP-DSW-02
SP-DSW-06	0.15 cal/cm²	457mm (18in)	126mm (5in)	600VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	SP-004	SP-DSW-04_Fuse_SP-DSW-04
SP-DSW-08	0.19 cal/cm²	457mm (18in)	142mm (6in)	600VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	SP-002	SP-DSW-03_Fuse_SP-DSW-03
SP-DSW-09	115.74 cal/cm²	457mm (18in)	7974mm (314in)	208VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	SP-ROOF	SP-DSW-02_Fuse_SP-DSW-02
SP-DSW-10	0.04 cal/cm²	457mm (18in)	58mm (2in)	208VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	SP-ROOF	SP-PP-11_CB_DSW-10
SP-DSW-11	0.04 cal/cm²	457mm (18in)	58mm (2in)	208VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	SP-002	SP-PP-11_CB_DSW-11
SP-DSW-12	1.32 cal/cm²	457mm (18in)	485mm (19in)	208VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	SP-2000A	SP-PP-11_CB_DSW-12
SP-DSW-13	0.05 cal/cm²	457mm (18in)	61mm (2in)	208VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	SP-2000A	SP-PP-11_CB_DSW-13
SP-LVSG-01	0.18 cal/cm²	610mm (24in)	187mm (7in)	600VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Switchgear	SP-4C02	GH-DP-01_CB_SPENCER HALL
SP-PP-01	2.41 cal/cm²	457mm (18in)	708mm (28in)	208VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	SP-002	SP-DP-01_Fuse_SP-PP-01
SP-PP-02	0.25 cal/cm²	457mm (18in)	173mm (7in)	208VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	SP-002	SP-DP-01_Fuse_SP-PP-02
SP-PP-03	0.75 cal/cm²	457mm (18in)	342mm (13in)	208VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	SP-002	SP-DP-01_Fuse_SP-PP-03
SP-PP-04	0.46 cal/cm²	457mm (18in)	249mm (10in)	208VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	SP-002	SP-DP-01_Fuse_SP-PP-04
SP-PP-05	0.04 cal/cm²	457mm (18in)	55mm (2in)	208VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	SP-002	SP-DP-01_Fuse_SP-PP-05
SP-PP-06	0.03 cal/cm²	457mm (18in)	44mm (2in)	208VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	SP-GR	SP-DP-01_Fuse_SP-PP-06
SP-PP-07	0.04 cal/cm²	457mm (18in)	54mm (2in)	208VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	SP-ROOF	SP-DP-01_Fuse_SP-PP-07
SP-PP-08	0.24 cal/cm²	457mm (18in)	167mm (7in)	208VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	SP-ROOF	SP-DP-01_Fuse_SP-PP-08
SP-PP-09	0.15 cal/cm²	457mm (18in)	126mm (5in)	208VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	SP-1C02	SP-DP-01_Fuse_SP-PP-09
SP-PP-10	0.29 cal/cm²	457mm (18in)	188mm (7in)	208VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	SP-1C02	SP-DP-01_Fuse_SP-PP-10
SP-PP-11	5.87 cal/cm²	457mm (18in)	1234mm (49in)	208VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	SP-2C02	SP-DP-01_Fuse_SP-PP-11
SP-PP-12	0.03 cal/cm²	457mm (18in)	44mm (2in)	208VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	SP-2C02	SP-DP-01_Fuse_SP-PP-12
SP-PP-13	0.06 cal/cm²	457mm (18in)	71mm (3in)	208VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	SP-3001	SP-DP-01_Fuse_SP-PP-13
SP-PP-14	0.22 cal/cm²	457mm (18in)	156mm (6in)	208VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	SP-3001	SP-DP-01_Fuse_SP-PP-14
SP-PP-15	0.14 cal/cm²	457mm (18in)	120mm (5in)	208VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	SP-3009	SP-DP-01_Fuse_SP-PP-15
SP-PP-17	0.11 cal/cm²	457mm (18in)	103mm (4in)	208VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	SP-3009	SP-DP-01_Fuse_SP-PP-17
SP-PP-18	0.03 cal/cm²	457mm (18in)	42mm (2in)	208VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	SP-3009	SP-DP-01_Fuse_SP-UPS-01
SP-SPT-01	0.27 cal/cm²	457mm (18in)	179mm (7in)	600VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	SP-4C02	SP-LVSG-01_Fuse_SP-LVSG-01
SP-TRAN-01-HV	0.18 cal/cm²	457mm (18in)	139mm (5in)	600VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	SP-4014	SP-DSW-02_Fuse_SP-DSW-02
SP-TRAN-01-LV	31.55 cal/cm²	457mm (18in)	3535mm (139in)	208VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	SP-4014	SP-DSW-02_Fuse_SP-DSW-02

One-Line Diagram - CERR | Star - Protection & Coordination | SM

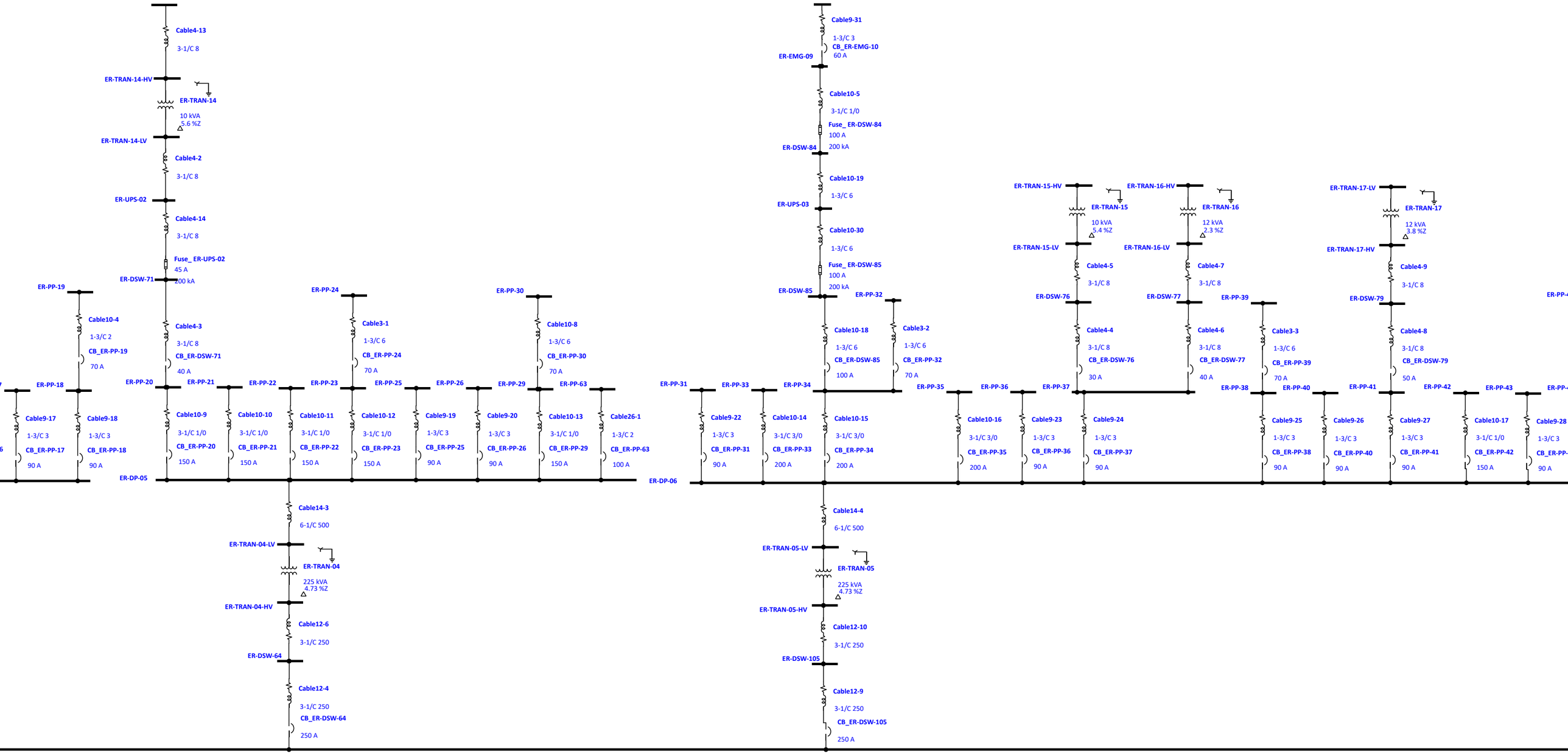
FICTITIOUS NAME : TRAN 55
MUN NO MENTIONED NAME FOR THIS TRANSFORMER (APPEARED IN RFI 48)

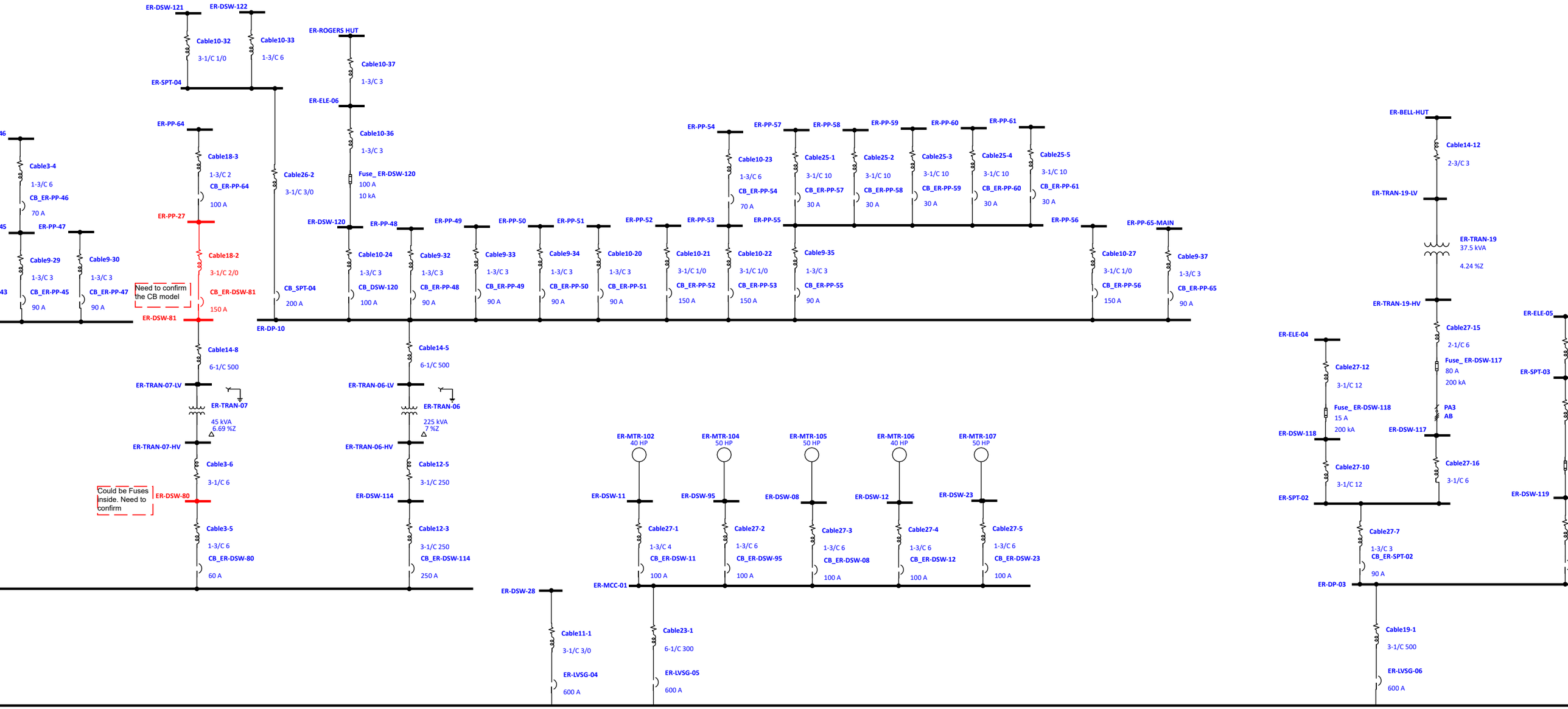


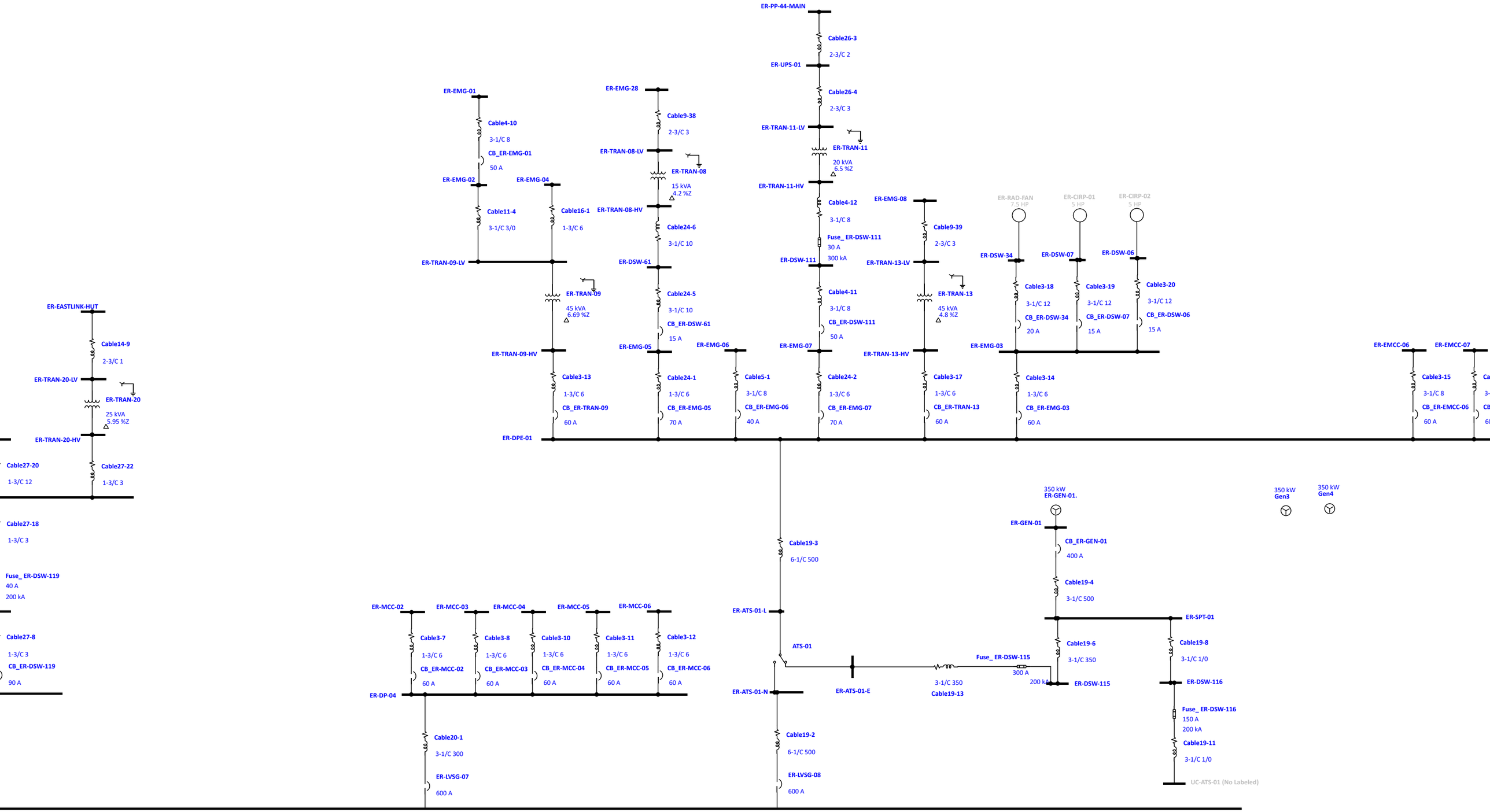


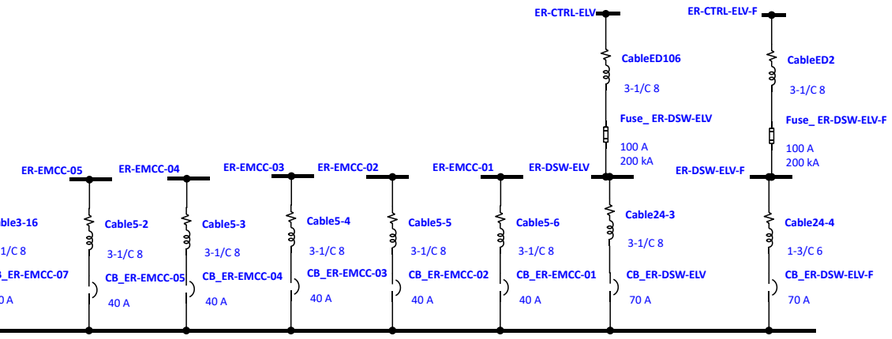


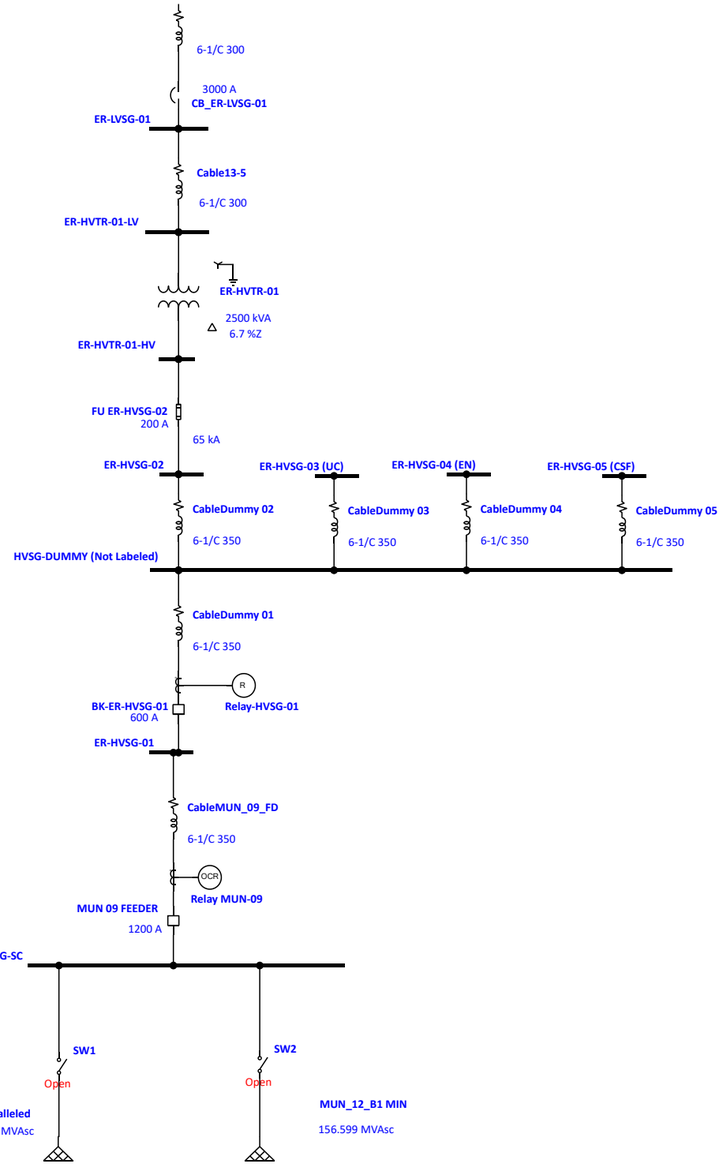
One-Line Diagram - CERR | Star - Protection & Coordination | SM




ER-DSW-121
ER-DSW-122
Cable10-32
3-1/C 1/0
Cable10-33
1-3/C 6
ER-SPT-04
ER-ROGERS HUT
Cable10-37
1-3/C 3
ER-ELE-06
Cable10-36
1-3/C 3
Fuse_ ER-DSW-120
100 A
10 kA
ER-DSW-120
ER-PP-64
Cable18-3
1-3/C 2
CB_ER-PP-64
100 A
ER-PP-27
Cable18-2
3-1/C 2/0
Need to confirm the CB model
CB_ER-DSW-81
150 A
ER-DSW-81
Cable26-2
3-1/C 3/0
CB_SPT-04
200 A
ER-DP-10
ER-PP-48
ER-PP-49
ER-PP-50
ER-PP-51
ER-PP-52
ER-PP-53
ER-PP-54
ER-PP-55
ER-PP-57
ER-PP-58
ER-PP-59
ER-PP-60
ER-PP-61
ER-PP-56
ER-PP-65-MAIN
Cable10-24
1-3/C 3
CB_DSW-120
100 A
Cable9-32
1-3/C 3
CB_ER-PP-48
90 A
Cable9-33
1-3/C 3
CB_ER-PP-49
90 A
Cable9-34
1-3/C 3
CB_ER-PP-50
90 A
Cable10-20
1-3/C 3
CB_ER-PP-51
90 A
Cable10-21
3-1/C 1/0
CB_ER-PP-52
150 A
Cable10-22
3-1/C 1/0
CB_ER-PP-53
150 A
Cable10-23
1-3/C 6
CB_ER-PP-54
70 A
Cable9-35
1-3/C 3
CB_ER-PP-55
90 A
Cable25-1
3-1/C 10
CB_ER-PP-57
30 A
Cable25-2
3-1/C 10
CB_ER-PP-58
30 A
Cable25-3
3-1/C 10
CB_ER-PP-59
30 A
Cable25-4
3-1/C 10
CB_ER-PP-60
30 A
Cable25-5
3-1/C 10
CB_ER-PP-61
30 A
Cable10-27
3-1/C 1/0
CB_ER-PP-56
150 A
Cable9-37
1-3/C 3
CB_ER-PP-65
90 A
Cable14-5
6-1/C 500
ER-TRAN-06-LV
ER-TRAN-06
225 kVA
7 %Z
ER-TRAN-06-HV
Cable12-5
3-1/C 250
ER-DSW-114
Cable12-3
3-1/C 250
CB_ER-DSW-114
250 A
Cable14-8
6-1/C 500
ER-TRAN-07-LV
ER-TRAN-07
45 kVA
6.69 %Z
ER-TRAN-07-HV
Cable3-6
3-1/C 6
Could be Fuses inside. Need to confirm
ER-DSW-80
Cable3-5
1-3/C 6
CB_ER-DSW-80
60 A
Cable3-4
1-3/C 6
CB_ER-PP-46
70 A
ER-PP-47
Cable9-29
1-3/C 3
CB_ER-PP-45
90 A
Cable9-30
1-3/C 3
CB_ER-PP-47
90 A
ER-MTR-102
40 HP
ER-MTR-104
50 HP
ER-MTR-105
50 HP
ER-MTR-106
40 HP
ER-MTR-107
50 HP
ER-DSW-11
ER-DSW-95
ER-DSW-08
ER-DSW-12
ER-DSW-23
Cable27-1
1-3/C 4
CB_ER-DSW-11
100 A
Cable27-2
1-3/C 6
CB_ER-DSW-95
100 A
Cable27-3
1-3/C 6
CB_ER-DSW-08
100 A
Cable27-4
1-3/C 6
CB_ER-DSW-12
100 A
Cable27-5
1-3/C 6
CB_ER-DSW-23
100 A
ER-MCC-01
ER-DSW-28
Cable11-1
3-1/C 3/0
ER-LVSG-04
600 A
Cable23-1
6-1/C 300
ER-LVSG-05
600 A
ER-BELL-HUT
Cable14-12
2-3/C 3
ER-TRAN-19-LV
ER-TRAN-19
37.5 kVA
4.24 %Z
ER-TRAN-19-HV
Cable27-15
2-1/C 6
Fuse_ ER-DSW-117
80 A
200 kA
PA3
AB
ER-DSW-117
Cable27-16
3-1/C 6
ER-DSW-119
ER-ELE-04
Cable27-12
3-1/C 12
Fuse_ ER-DSW-118
15 A
200 kA
ER-DSW-118
Cable27-10
3-1/C 12
ER-SPT-02
Cable27-7
1-3/C 3
CB_ER-SPT-02
90 A
ER-DP-03
Cable19-1
3-1/C 500
ER-LVSG-06
600 A
ER-ELE-05
ER-SPT-03


ER-EASTLINK-HUT
Cable14-9
2-3/C 1
ER-TRAN-20-LV
ER-TRAN-20
25 kVA
5.95 %Z
ER-TRAN-20-HV
Cable27-20
1-3/C 12
Cable27-22
1-3/C 3
Cable27-18
1-3/C 3
Fuse_ ER-DSW-119
40 A
200 kA
Cable27-8
1-3/C 3
CB_ER-DSW-119
90 A
ER-EMG-01
Cable4-10
3-1/C 8
CB_ER-EMG-01
50 A
ER-EMG-02
Cable11-4
3-1/C 3/0
ER-EMG-04
Cable16-1
1-3/C 6
ER-TRAN-09-LV
ER-TRAN-09
45 kVA
6.69 %Z
ER-TRAN-09-HV
Cable3-13
1-3/C 6
CB_ER-TRAN-09
60 A
ER-EMG-28
Cable9-38
2-3/C 3
ER-TRAN-08-LV
ER-TRAN-08
15 kVA
4.2 %Z
ER-TRAN-08-HV
Cable24-6
3-1/C 10
ER-DSW-61
Cable24-5
3-1/C 10
CB_ER-DSW-61
15 A
ER-EMG-05
Cable24-1
1-3/C 6
CB_ER-EMG-05
70 A
ER-EMG-06
Cable5-1
3-1/C 8
CB_ER-EMG-06
40 A
ER-PP-44-MAIN
Cable26-3
2-3/C 2
ER-UPS-01
Cable26-4
2-3/C 3
ER-TRAN-11-LV
ER-TRAN-11
20 kVA
6.5 %Z
ER-TRAN-11-HV
Cable4-12
3-1/C 8
Fuse_ ER-DSW-111
30 A
300 kA
ER-DSW-111
Cable4-11
3-1/C 8
CB_ER-DSW-111
50 A
ER-EMG-07
Cable24-2
1-3/C 6
CB_ER-EMG-07
70 A
ER-EMG-08
Cable9-39
2-3/C 3
ER-TRAN-13-LV
ER-TRAN-13
45 kVA
4.8 %Z
ER-TRAN-13-HV
Cable3-17
1-3/C 6
CB_ER-TRAN-13
60 A
ER-RAD-FAN
7.5 HP
ER-CIRP-01
5 HP
ER-CIRP-02
5 HP
ER-DSW-34
ER-DSW-07
ER-DSW-06
Cable3-18
3-1/C 12
CB_ER-DSW-34
20 A
Cable3-19
3-1/C 12
CB_ER-DSW-07
15 A
Cable3-20
3-1/C 12
CB_ER-DSW-06
15 A
ER-EMG-03
Cable3-14
1-3/C 6
CB_ER-EMG-03
60 A
ER-EMCC-06
ER-EMCC-07
Cable3-15
3-1/C 8
CB_ER-EMCC-06
60 A
ER-DPE-01
ER-MCC-02
ER-MCC-03
ER-MCC-04
ER-MCC-05
ER-MCC-06
Cable3-7
1-3/C 6
CB_ER-MCC-02
60 A
Cable3-8
1-3/C 6
CB_ER-MCC-03
60 A
Cable3-10
1-3/C 6
CB_ER-MCC-04
60 A
Cable3-11
1-3/C 6
CB_ER-MCC-05
60 A
Cable3-12
1-3/C 6
CB_ER-MCC-06
60 A
ER-DP-04
Cable20-1
3-1/C 300
ER-LVSG-07
600 A
Cable19-3
6-1/C 500
ER-ATS-01-L
ATS-01
ER-ATS-01-N
ER-ATS-01-E
Cable19-2
6-1/C 500
ER-LVSG-08
600 A
350 kW
ER-GEN-01.
ER-GEN-01
CB_ER-GEN-01
400 A
Cable19-4
3-1/C 500
350 kW
Gen3
350 kW
Gen4
ER-SPT-01
Cable19-6
3-1/C 350
Fuse_ ER-DSW-115
300 A
200 kA
ER-DSW-115
Cable19-13
3-1/C 350
Cable19-8
3-1/C 1/0
ER-DSW-116
Fuse_ ER-DSW-116
150 A
200 kA
Cable19-11
3-1/C 1/0
UC-ATS-01 (No Labeled)


ER-CTRL-ELV
ER-CTRL-ELV-F
CableED106
3-1/C 8
CableED2
3-1/C 8
Fuse_ ER-DSW-ELV
100 A
200 kA
Fuse_ ER-DSW-ELV-F
100 A
200 kA
ER-EMCC-05
ER-EMCC-04
ER-EMCC-03
ER-EMCC-02
ER-EMCC-01
ER-DSW-ELV
ER-DSW-ELV-F
ble3-16
1/C 8
_ER-EMCC-07
0 A
Cable5-2
3-1/C 8
CB_ER-EMCC-05
40 A
Cable5-3
3-1/C 8
CB_ER-EMCC-04
40 A
Cable5-4
3-1/C 8
CB_ER-EMCC-03
40 A
Cable5-5
3-1/C 8
CB_ER-EMCC-02
40 A
Cable5-6
3-1/C 8
CB_ER-EMCC-01
40 A
Cable24-3
3-1/C 8
CB_ER-DSW-ELV
70 A
Cable24-4
1-3/C 6
CB_ER-DSW-ELV-F
70 A


6-1/C 300
3000 A
CB_ER-LVSG-01
ER-LVSG-01
Cable13-5
6-1/C 300
ER-HVTR-01-LV
ER-HVTR-01
2500 kVA
6.7 %Z
ER-HVTR-01-HV
FU ER-HVSG-02
200 A
65 kA
ER-HVSG-02
ER-HVSG-03 (UC)
ER-HVSG-04 (EN)
ER-HVSG-05 (CSF)
CableDummy 02
6-1/C 350
CableDummy 03
6-1/C 350
CableDummy 04
6-1/C 350
CableDummy 05
6-1/C 350
HVSG-DUMMY (Not Labeled)
CableDummy 01
6-1/C 350
R
BK-ER-HVSG-01
600 A
Relay-HVSG-01
ER-HVSG-01
CableMUN_09_FD
6-1/C 350
OCR
MUN 09 FEEDER
1200 A
Relay MUN-09
ER-HVSG-SC
SW1
Open
SW2
Open
ME_UTIL_Paralleled
277.684 MVAsc
MUN_12_B1 MIN
156.599 MVAsc

Arc Flash Labels for Panels

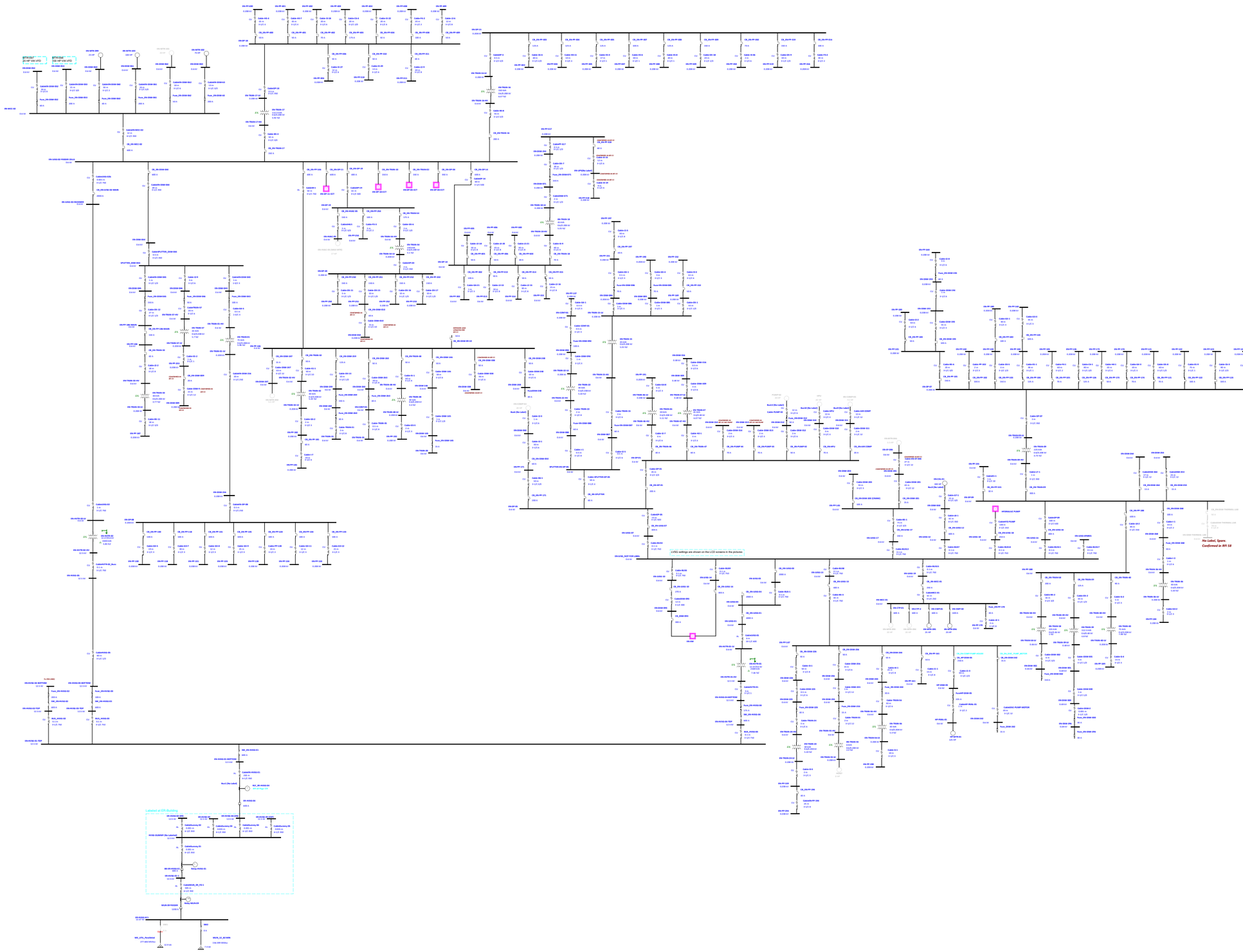
VDP_TAG	VDP_INCIDENT	VDP_WORKING	VDP_ARCFLASH	VDP_NOMINAL	VDP_PERFORMED	VDP_Limited	VDP_Restricted	VDP_Gloves	VDP_Equipment	VDP_Location	VDP_Fed From
ER-ATS-01-N	4.37 cal/cm²	610mm (24in)	1368mm (54in)	600VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Switchboard	RM-1000C	ER-DP-A_ER-LVSG-08
ER-BELL-HUT	25.35 cal/cm²	457mm (18in)	3083mm (121in)	240VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard		ER-DSW-117_Fuse_ ER-DSW-117
ER-CTRL-ELV	0.03 cal/cm²	457mm (18in)	45mm (2in)	480VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard		ER-DSW-ELV_Fuse_ ER-DSW-ELV
ER-CTRL-ELV-F	0.12 cal/cm²	457mm (18in)	109mm (4in)	480VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard		ER-DSW-ELV-F_Fuse_ ER-DSW-ELV-F
ER-DP-01	4.69 cal/cm²	610mm (24in)	1430mm (56in)	600VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Switchboard	RM-1000B	ER-DP-A_ER-LVSG-02
ER-DP-02	4.75 cal/cm²	610mm (24in)	1441mm (57in)	600VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Switchboard	RM-1000B	ER-DP-A_ER-LVSG-03
ER-DP-03	4.44 cal/cm²	610mm (24in)	1382mm (54in)	600VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Switchboard	RM-1000B	ER-DP-A_ER-LVSG-06
ER-DP-04	4.43 cal/cm²	610mm (24in)	1380mm (54in)	600VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Switchboard	RM-1000B	ER-DP-A_ER-LVSG-07
ER-DP-05	134.17 cal/cm²	610mm (24in)	11661mm (459in)	208VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Switchboard	RM-4059A	ER-DSW-64_NOT FUSED
ER-DP-06	123.09 cal/cm²	610mm (24in)	11049mm (435in)	208VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Switchboard	RM-5050C	ER-DSW-105_NOT FUSED
ER-DP-07	0.46 cal/cm²	610mm (24in)	335mm (13in)	600VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Switchboard	RM-5050C	ER-DP-01_CB_ER-DP-07
ER-DP-08	304.09 cal/cm²	610mm (24in)	19458mm (766in)	208VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Switchboard	RM-1000	ER-DSW-15_NOT FUSED
ER-DP-09	139.88 cal/cm²	610mm (24in)	11969mm (471in)	208VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Switchboard	RM-3C03	ER-DSW-62_NOT FUSED
ER-DP-10	178.23 cal/cm²	610mm (24in)	13929mm (548in)	208VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Switchboard	RM-6053A	ER-DSW-114_NOT FUSED
ER-DP-A	11.43 cal/cm²	610mm (24in)	2497mm (98in)	600VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Switchboard	RM-1000B	ER-HVTR-01_CB_ER-LVSG-01
ER-DPE-01	4.19 cal/cm²	610mm (24in)	1332mm (52in)	600VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Switchboard	RM-1000C	ER-DP-A_ER-LVSG-08
ER-DSW-06	0.11 cal/cm²	457mm (18in)	102mm (4in)	600VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1000	ER-EMG-03_CB_ER-DSW-06
ER-DSW-07	0.11 cal/cm²	457mm (18in)	102mm (4in)	600VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1000	ER-EMG-03_CB_ER-DSW-07
ER-DSW-08	0.49 cal/cm²	457mm (18in)	261mm (10in)	600VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard		ER-MCC-01_CB_ER-DSW-08
ER-DSW-105	0.87 cal/cm²	457mm (18in)	374mm (15in)	600VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-5050C	ER-DP-02_CB_ER-DSW-105
ER-DSW-11	0.41 cal/cm²	457mm (18in)	233mm (9in)	600VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard		ER-MCC-01_CB_ER-DSW-11
ER-DSW-111	19.46 cal/cm²	457mm (18in)	2612mm (103in)	600VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-5050C	ER-EMG-07_CB_ER-DSW-111
ER-DSW-114	0.78 cal/cm²	457mm (18in)	350mm (14in)	600VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-6053A	ER-DP-02_CB_ER-DSW-114
ER-DSW-117	0.27 cal/cm²	457mm (18in)	179mm (7in)	600VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard		ER-DP-03_CB_ER-SPT-02
ER-DSW-118	0.24 cal/cm²	457mm (18in)	167mm (7in)	600VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard		ER-DP-03_CB_ER-SPT-02
ER-DSW-119	0.26 cal/cm²	457mm (18in)	175mm (7in)	600VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard		ER-DP-03_CB_ER-DSW-119
ER-DSW-12	0.23 cal/cm²	457mm (18in)	162mm (6in)	600VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard		ER-MCC-01_CB_ER-DSW-12
ER-DSW-120	0.14 cal/cm²	457mm (18in)	120mm (5in)	208VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard		ER-DP-10_CB_DSW-120
ER-DSW-121	16.34 cal/cm²	457mm (18in)	2342mm (92in)	208VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard		ER-DP-10_CB_SPT-04
ER-DSW-122	16.84 cal/cm²	457mm (18in)	2386mm (94in)	208VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard		ER-DP-10_CB_SPT-04
ER-DSW-123	1.22 cal/cm²	457mm (18in)	462mm (18in)	208VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1005	ER-PP-04_CB_ER-DSW-123
ER-DSW-15	0.87 cal/cm²	457mm (18in)	374mm (15in)	600VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1000	ER-DP-02_CB_ER-DSW-15
ER-DSW-21	1.26 cal/cm²	457mm (18in)	470mm (19in)	208VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard		ER-DP-08_CB_ER-JB-01
ER-DSW-22	1.26 cal/cm²	457mm (18in)	470mm (19in)	208VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard		ER-DP-08_CB_ER-JB-02
ER-DSW-23	0.14 cal/cm²	457mm (18in)	121mm (5in)	600VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard		ER-MCC-01_CB_ER-DSW-23
ER-DSW-28	0.73 cal/cm²	457mm (18in)	334mm (13in)	600VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard		ER-DP-A_ER-LVSG-04
ER-DSW-34	0.71 cal/cm²	457mm (18in)	327mm (13in)	600VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard		ER-EMG-03_CB_ER-DSW-34
ER-DSW-55	0.15 cal/cm²	457mm (18in)	126mm (5in)	600VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-5050C	ER-DP-07_CB_ER-DSW-55
ER-DSW-56	0.15 cal/cm²	457mm (18in)	126mm (5in)	600VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-5050C	ER-DP-07_CB_ER-DSW-56
ER-DSW-61	0.05 cal/cm²	457mm (18in)	66mm (3in)	600VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-4057	ER-EMG-05_CB_ER-DSW-61
ER-DSW-62	0.67 cal/cm²	457mm (18in)	317mm (12in)	600VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-4058B	ER-DP-02_CB_ER-DSW-62
ER-DSW-63	0.33 cal/cm²	457mm (18in)	203mm (8in)	600VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-4058B	ER-LP-04_CB_ER-DSW-63
ER-DSW-64	0.69 cal/cm²	457mm (18in)	324mm (13in)	600VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-4058C	ER-DP-02_CB_ER-DSW-64
ER-DSW-71	1.65 cal/cm²	457mm (18in)	558mm (22in)	208VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-4006	ER-PP-20_CB_ER-DSW-71
ER-DSW-72	1.39 cal/cm²	457mm (18in)	501mm (20in)	400VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-4006	ER-DSW-71_Fuse_ ER-UPS-02
ER-DSW-76	1.11 cal/cm²	457mm (18in)	435mm (17in)	208VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-5042	ER-PP-37_CB_ER-DSW-76
ER-DSW-77	1.63 cal/cm²	457mm (18in)	553mm (22in)	208VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-5042	ER-PP-37_CB_ER-DSW-77
ER-DSW-79	1.96 cal/cm²	457mm (18in)	622mm (24in)	208VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-5048	ER-PP-41_CB_ER-DSW-79
ER-DSW-80	0.18 cal/cm²	457mm (18in)	139mm (5in)	600VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-5049C	ER-DP-02_CB_ER-DSW-80
ER-DSW-81	58.36 cal/cm²	457mm (18in)	5194mm (204in)	208VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-5049C	ER-DSW-80_NOT FUSED
ER-DSW-84	7.96 cal/cm²	457mm (18in)	1493mm (59in)	208VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-5005B	ER-DSW-85_FUSE_ER-DSW-85
ER-DSW-85	6.72 cal/cm²	457mm (18in)	1343mm (53in)	208VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-5005B	ER-PP-34_CB_ER-DSW-85
ER-DSW-95	0.36 cal/cm²	457mm (18in)	216mm (9in)	600VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard		ER-MCC-01_CB_ER-DSW-95
ER-DSW-ELV	170.83 cal/cm²	457mm (18in)	10173mm (401in)	600VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard		ER-DPE-01_CB_ER-DSW-ELV
ER-DSW-ELV-F	170.38 cal/cm²	457mm (18in)	10156mm (400in)	600VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard		ER-DPE-01_CB_ER-DSW-ELV-F
ER-EASTLINK-HUT	27.34 cal/cm²	457mm (18in)	3232mm (127in)	240VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard		ER-DSW-119_Fuse_ ER-DSW-119
ER-ELE-04	0.1 cal/cm²	457mm (18in)	96mm (4in)	600VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard		ER-DSW-118_Fuse_ ER-DSW-118
ER-ELE-05	0.1 cal/cm²	457mm (18in)	99mm (4in)	600VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard		ER-DSW-119_Fuse_ ER-DSW-119
ER-ELE-06	0.07 cal/cm²	457mm (18in)	77mm (3in)	208VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard		ER-DSW-120_Fuse_ ER-DSW-120
ER-EMCC-01	8.69 cal/cm²	457mm (18in)	1576mm (62in)	600VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	MCC	RM-7006	ER-DPE-01_CB_ER-EMCC-01
ER-EMCC-02	6.97 cal/cm²	457mm (18in)	1373mm (54in)	600VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	MCC	RM-7005	ER-DPE-01_CB_ER-EMCC-02

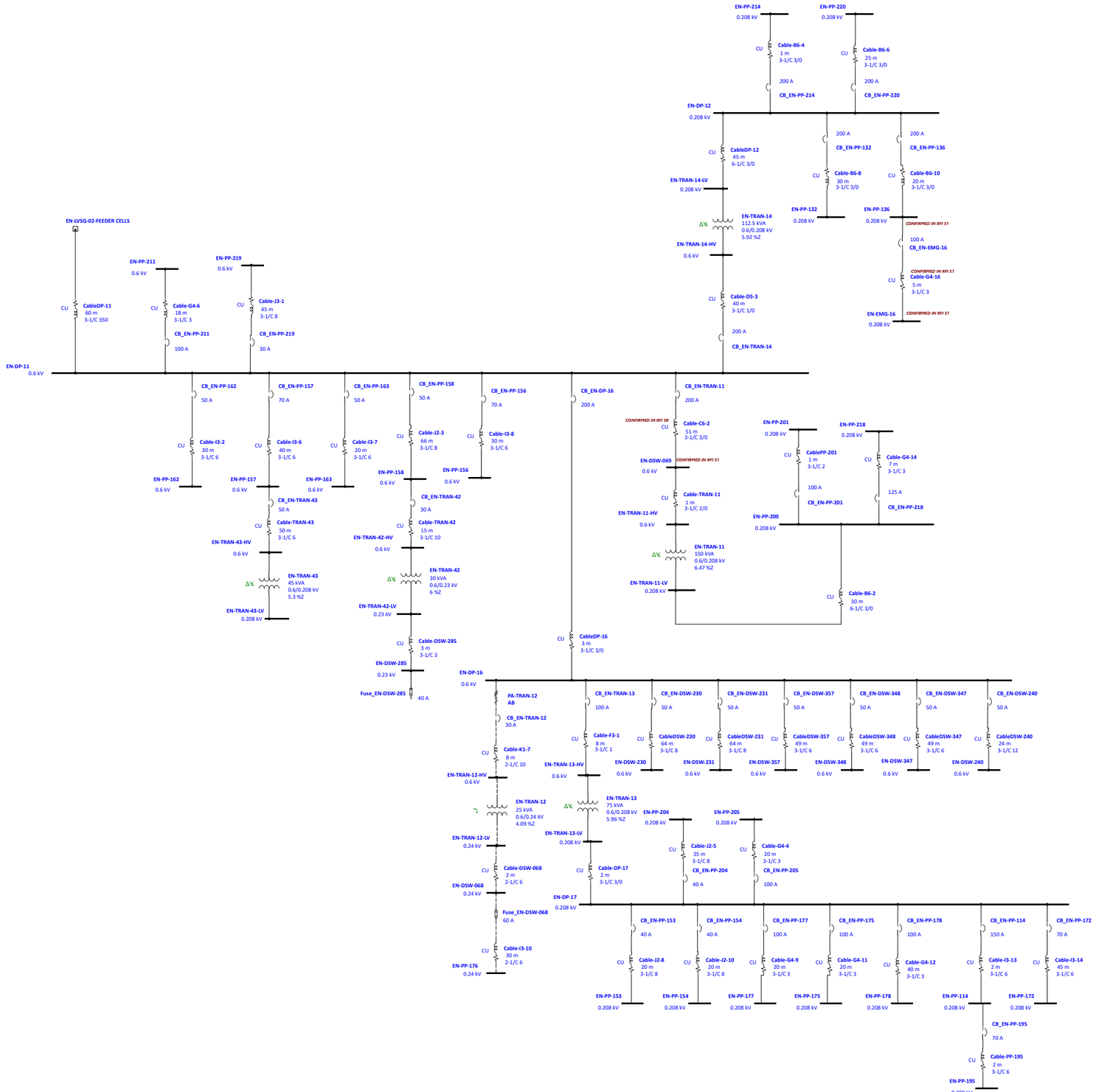
ER-EMCC-03	5.98 cal/cm²	457mm (18in)	1248mm (49in)	600VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	MCC	RM-7004	ER-DPE-01_CB_ER-EMCC-03
ER-EMCC-04	5.46 cal/cm²	457mm (18in)	1178mm (46in)	600VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	MCC	RM-7003	ER-DPE-01_CB_ER-EMCC-04
ER-EMCC-05	4.91 cal/cm²	457mm (18in)	1103mm (43in)	600VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	MCC	RM-7002	ER-DPE-01_CB_ER-EMCC-05
ER-EMCC-06	151.6 cal/cm²	457mm (18in)	9440mm (372in)	600VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	MCC	RM-1000	ER-DPE-01_CB_ER-EMCC-06
ER-EMCC-07	146.8 cal/cm²	457mm (18in)	9252mm (364in)	600VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	MCC	RM-1000	ER-DPE-01_CB_ER-EMCC-07
ER-EMG-01	22.76 cal/cm²	457mm (18in)	2881mm (113in)	208VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1000C	ER-EMG-02_CB_ER-EMG-01
ER-EMG-02	119.11 cal/cm²	457mm (18in)	8118mm (320in)	208VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1000C	ER-DPE-01_CB_ER-TRAN-09
ER-EMG-03	141.9 cal/cm²	457mm (18in)	9058mm (357in)	600VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1000C	ER-DPE-01_CB_ER-EMG-03
ER-EMG-04	123.26 cal/cm²	457mm (18in)	8294mm (327in)	208VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1000C	ER-DPE-01_CB_ER-TRAN-09
ER-EMG-05	171.13 cal/cm²	457mm (18in)	10184mm (401in)	600VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-4C03	ER-DPE-01_CB_ER-EMG-05
ER-EMG-06	0.9 cal/cm²	457mm (18in)	376mm (15in)	600VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1000B	ER-DPE-01_CB_ER-EMG-06
ER-EMG-07	171.46 cal/cm²	457mm (18in)	10196mm (401in)	600VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-6C02	ER-DPE-01_CB_ER-EMG-07
ER-EMG-08	109.24 cal/cm²	457mm (18in)	7690mm (303in)	208VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-4057A	ER-DPE-01_CB_ER-TRAN-13
ER-EMG-09	8.73 cal/cm²	457mm (18in)	1582mm (62in)	208VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-5005B	ER-DSW-84_FUSE_ER-DSW-84
ER-EMG-10	2.54 cal/cm²	457mm (18in)	730mm (29in)	208VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-5005B	ER-EMG-09_CB_ER-EMG-10
ER-EMG-28	20.96 cal/cm²	457mm (18in)	2736mm (108in)	208VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-4057B	ER-DSW-61_NOT FUSED
ER-HVSG-01	1.48 cal/cm²	914mm (36in)	1046mm (41in)	12500VAC	Monday, October 27, 2025	1.5m (60in)	658mm (26in)	2	Switchgear	ER-1000B	MUN-09-FEEDER
ER-HVSG-02	1.12 cal/cm²	914mm (36in)	875mm (34in)	12500VAC	Monday, October 27, 2025	1.5m (60in)	658mm (26in)	2	Switchgear	ER-1000B	ER-HVSG-01_BK-ER-HVSG-01
ER-HVSG-03 (UC)	1.12 cal/cm²	914mm (36in)	875mm (34in)	12500VAC	Monday, October 27, 2025	1.5m (60in)	658mm (26in)	2	Switchgear	ER-1000B	ER-HVSG-01_BK-ER-HVSG-01
ER-HVSG-04 (EN)	1.12 cal/cm²	914mm (36in)	875mm (34in)	12500VAC	Monday, October 27, 2025	1.5m (60in)	658mm (26in)	2	Switchgear	ER-1000B	ER-HVSG-01_BK-ER-HVSG-01
ER-HVSG-05 (CSF)	1.12 cal/cm²	914mm (36in)	875mm (34in)	12500VAC	Monday, October 27, 2025	1.5m (60in)	658mm (26in)	2	Switchgear	ER-1000B	ER-HVSG-01_BK-ER-HVSG-01
ER-HVTR-01-HV	0.13 cal/cm²	914mm (36in)	226mm (9in)	12500VAC	Monday, October 27, 2025	1.5m (60in)	658mm (26in)	2	Switchgear	RM-1000B	ER-HVSG-02_FU ER-HVSG-02
ER-HVTR-01-LV	191 cal/cm²	610mm (24in)	14545mm (573in)	600VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Switchgear	RM-1000B	ER-HVSG-02_FU ER-HVSG-02
ER-LP-01	0.71 cal/cm²	457mm (18in)	330mm (13in)	600VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1000B	ER-DP-01_CB_ER-LP-01
ER-LP-02	0.22 cal/cm²	457mm (18in)	156mm (6in)	600VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-2C03	ER-DP-01_CB_ER_LP-02
ER-LP-03	0.76 cal/cm²	457mm (18in)	343mm (14in)	600VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-3007	ER-DP-01_CB_ER-LP-03
ER-LP-04	0.53 cal/cm²	457mm (18in)	275mm (11in)	600VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-4C03	ER-DP-01_CB_ER-LP-04
ER-LP-05	0.18 cal/cm²	457mm (18in)	137mm (5in)	600VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-5017	ER-DP-01_CB_ER-LP-05
ER-LP-06	0.17 cal/cm²	457mm (18in)	132mm (5in)	600VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-6C02	ER-DP-01_CB_ER-LP-06
ER-LVSG-01	191 cal/cm²	610mm (24in)	14545mm (573in)	600VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Switchgear	ER-1000B	ER-HVSG-02_FU ER-HVSG-02
ER-MCC-01	7.01 cal/cm²	457mm (18in)	1380mm (54in)	600VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	MCC	RM-1000	ER-DP-A_ER-LVSG-05
ER-MCC-02	0.12 cal/cm²	457mm (18in)	109mm (4in)	600VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	MCC	RM-1000	ER-DP-04_CB_ER-MCC-02
ER-MCC-03	6.97 cal/cm²	457mm (18in)	1374mm (54in)	600VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	MCC	RM-1002	ER-DP-04_CB_ER-MCC-03
ER-MCC-04	0.55 cal/cm²	457mm (18in)	280mm (11in)	600VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	MCC	RM-7005	ER-DP-04_CB_ER-MCC-04
ER-MCC-05	0.57 cal/cm²	457mm (18in)	286mm (11in)	600VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	MCC	RM-7004	ER-DP-04_CB_ER-MCC-05
ER-MCC-06	0.12 cal/cm²	457mm (18in)	109mm (4in)	600VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	MCC	RM-7003	ER-DP-04_CB_ER-MCC-06
ER-PP-01	14.16 cal/cm²	457mm (18in)	2142mm (84in)	208VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1000	ER-DP-08_CB_ER-PP-01
ER-PP-02	0.47 cal/cm²	457mm (18in)	253mm (10in)	600VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1000	ER-DP-01_CB_ER-PP-02
ER-PP-03	24.06 cal/cm²	457mm (18in)	2984mm (117in)	208VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1003	ER-DP-08_CB_ER-PP-03
ER-PP-04	16.12 cal/cm²	457mm (18in)	2322mm (91in)	208VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1003	ER-DP-08_CB_ER-PP-04
ER-PP-05	17.91 cal/cm²	457mm (18in)	2481mm (98in)	208VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-2006	ER-DP-08_CB_ER-PP-05
ER-PP-06	22.58 cal/cm²	457mm (18in)	2867mm (113in)	208VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-5C02	ER-DP-09_CB_ER-PP-06
ER-PP-07	17.39 cal/cm²	457mm (18in)	2435mm (96in)	208VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-3005B	ER-DP-09_CB_ER-PP-07
ER-PP-08	3.62 cal/cm²	457mm (18in)	913mm (36in)	208VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-3006	ER-PP-09_CB_ER-PP-08
ER-PP-09	12.73 cal/cm²	457mm (18in)	2003mm (79in)	208VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-3006A	ER-DP-09_CB_ER-PP-09
ER-PP-10	0.12 cal/cm²	457mm (18in)	110mm (4in)	208VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-3007C	ER-DP-09_CB_ER-PP-10
ER-PP-11	0.12 cal/cm²	457mm (18in)	109mm (4in)	208VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-3007B	ER-DP-09_CB_ER-PP-11
ER-PP-12	10.34 cal/cm²	457mm (18in)	1759mm (69in)	208VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-3008	ER-DP-09_CB_ER-PP-12
ER-PP-13	12.99 cal/cm²	457mm (18in)	2029mm (80in)	208VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-3009B	ER-DP-09_CB_ER-PP-13
ER-PP-14	17.97 cal/cm²	457mm (18in)	2486mm (98in)	208VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-3010	ER-DP-09_CB_ER-PP-14
ER-PP-15	32.5 cal/cm²	457mm (18in)	3601mm (142in)	208VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-3C02	ER-DP-09_CB_ER-PP-15
ER-PP-16	30.85 cal/cm²	457mm (18in)	3485mm (137in)	208VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-3C03	ER-DP-09_CB_ER-PP-16
ER-PP-17	10.63 cal/cm²	457mm (18in)	1789mm (70in)	208VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-3C03	ER-DP-09_CB_ER-PP-17
ER-PP-18	9.78 cal/cm²	457mm (18in)	1698mm (67in)	208VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-3C03	ER-DP-09_CB_ER-PP-18
ER-PP-19	2.47 cal/cm²	457mm (18in)	718mm (28in)	208VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-3C03	ER-PP-18_CB_ER-PP-19
ER-PP-20	23.65 cal/cm²	457mm (18in)	2951mm (116in)	208VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-4C02	ER-DP-05_CB_ER-PP-20
ER-PP-21	24.46 cal/cm²	457mm (18in)	3015mm (119in)	208VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-4C02	ER-DP-05_CB_ER-PP-21
ER-PP-22	24.54 cal/cm²	457mm (18in)	3021mm (119in)	208VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-4009	ER-DP-05_CB_ER-PP-22
ER-PP-23	0.15 cal/cm²	457mm (18in)	126mm (5in)	208VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-4028	ER-DP-05_CB_ER-PP-23
ER-PP-24	2.93 cal/cm²	457mm (18in)	799mm (31in)	208VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-4028	ER-PP-23_CB_ER-PP-24
ER-PP-25	16.41 cal/cm²	457mm (18in)	2348mm (92in)	208VAC	Monday, October 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-4C03	ER-DP-05_CB_ER-PP-25
ER-PP-26	20.74 cal/cm²	457mm (18in)	2719mm (107in)	208VAC	Tuesday, October 28, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-4C03	ER-DP-05_CB_ER-PP-26
ER-PP-27	39.89 cal/cm²	457mm (18in)	4094mm (161in)	208VAC	Wednesday, October 29, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-4C05	ER-DSW-81_CB_ER-DSW-81
ER-PP-29	23.65 cal/cm²	457mm (18in)	2951mm (116in)	208VAC	Thursday, October 30, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-4C06	ER-DP-05_CB_ER-PP-29
ER-PP-30	2.97 cal/cm²	457mm (18in)	805mm (32in)	208VAC	Friday, October 31, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-4C06	ER-PP-29_CB_ER-PP-30

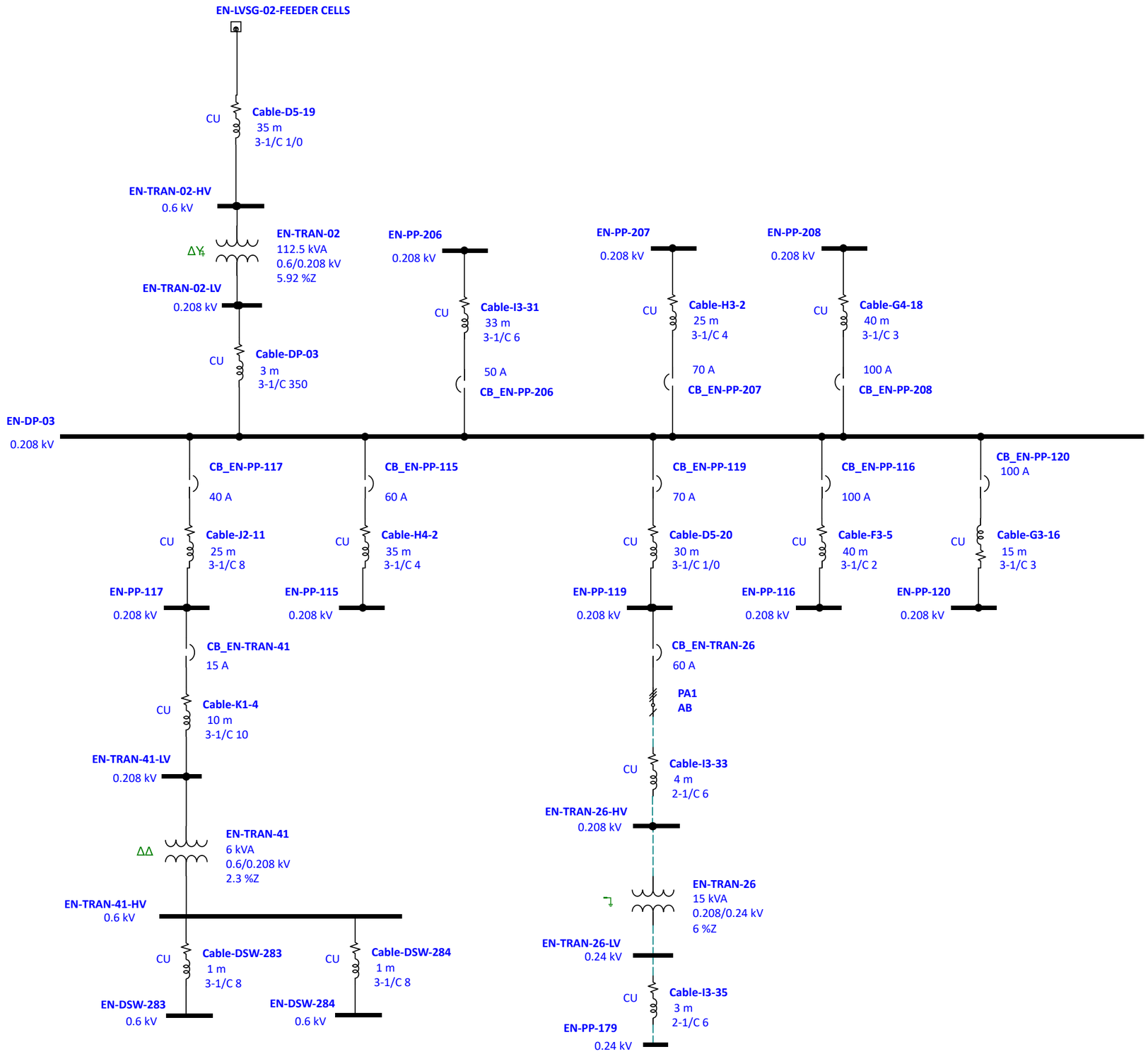
ER-PP-31	17.51 cal/cm²	457mm (18in)	2445mm (96in)	208VAC	Saturday, November 1, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-5001	ER-DP-06_CB_ER-PP-31
ER-PP-32	3.17 cal/cm²	457mm (18in)	839mm (33in)	208VAC	Sunday, November 2, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-5001	ER-PP-34_CB_ER-PP-32
ER-PP-33	0.06 cal/cm²	457mm (18in)	71mm (3in)	208VAC	Monday, November 3, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-5006	ER-DP-06_CB_ER-PP-33
ER-PP-34	0.06 cal/cm²	457mm (18in)	72mm (3in)	208VAC	Tuesday, November 4, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-5C02	ER-DP-06_CB_ER-PP-34
ER-PP-35	0.07 cal/cm²	457mm (18in)	79mm (3in)	208VAC	Wednesday, November 5, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-5040	ER-DP-06_CB_ER-PP-35
ER-PP-36	16.11 cal/cm²	457mm (18in)	2321mm (91in)	208VAC	Thursday, November 6, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-5C03	ER-DP-06_CB_ER-PP-36
ER-PP-37	15.55 cal/cm²	457mm (18in)	2270mm (89in)	208VAC	Friday, November 7, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-5C03	ER-DP-06_CB_ER-PP-37
ER-PP-38	14.72 cal/cm²	457mm (18in)	2193mm (86in)	208VAC	Saturday, November 8, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-5043	ER-DP-06_CB_ER-PP-38
ER-PP-39	4.16 cal/cm²	457mm (18in)	995mm (39in)	208VAC	Sunday, November 9, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-5043	ER-PP-38_CB_ER-PP-39
ER-PP-40	12.01 cal/cm²	457mm (18in)	1932mm (76in)	208VAC	Monday, November 10, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-5C03	ER-DP-06_CB_ER-PP-40
ER-PP-41	0.12 cal/cm²	457mm (18in)	107mm (4in)	208VAC	Tuesday, November 11, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-5048	ER-DP-06_CB_ER-PP-41
ER-PP-42	0.24 cal/cm²	457mm (18in)	165mm (6in)	208VAC	Wednesday, November 12, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-5049	ER-DP-06_CB_ER-PP-42
ER-PP-43	0.12 cal/cm²	457mm (18in)	111mm (4in)	208VAC	Thursday, November 13, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-5049B	ER-DP-06_CB_ER-PP-43
ER-PP-44-MAIN	42.51 cal/cm²	457mm (18in)	4260mm (168in)	208VAC	Friday, November 14, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-5050C	ER-DSW-111_Fuse_ ER-DSW-111
ER-PP-45	11.23 cal/cm²	457mm (18in)	1852mm (73in)	208VAC	Saturday, November 15, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-5053C	ER-DP-06_CB_ER-PP-45
ER-PP-46	2.75 cal/cm²	457mm (18in)	767mm (30in)	208VAC	Sunday, November 16, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-5053C	ER-PP-45_CB_ER-PP-46
ER-PP-47	11.75 cal/cm²	457mm (18in)	1905mm (75in)	208VAC	Monday, November 17, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-5053G	ER-DP-06_CB_ER-PP-47
ER-PP-48	12.6 cal/cm²	457mm (18in)	1990mm (78in)	208VAC	Tuesday, November 18, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-6000	ER-DP-10_CB_ER-PP-48
ER-PP-49	11.87 cal/cm²	457mm (18in)	1917mm (75in)	208VAC	Wednesday, November 19, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-6003	ER-DP-10_CB_ER-PP-49
ER-PP-50	16.55 cal/cm²	457mm (18in)	2361mm (93in)	208VAC	Thursday, November 20, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-6008	ER-DP-10_CB_ER-PP-50
ER-PP-51	0.13 cal/cm²	457mm (18in)	111mm (4in)	208VAC	Friday, November 21, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-6C02	ER-DP-10_CB_ER-PP-51
ER-PP-52	23.54 cal/cm²	457mm (18in)	2943mm (116in)	208VAC	Saturday, November 22, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-6C02	ER-DP-10_CB_ER-PP-52
ER-PP-53	23.12 cal/cm²	457mm (18in)	2910mm (115in)	208VAC	Sunday, November 23, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-6045A	ER-DP-10_CB_ER-PP-53
ER-PP-54	2.83 cal/cm²	457mm (18in)	781mm (31in)	208VAC	Monday, November 24, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-6045A	ER-PP-53_CB_ER-PP-54
ER-PP-55	0.12 cal/cm²	457mm (18in)	108mm (4in)	208VAC	Tuesday, November 25, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-6053A	ER-DP-10_CB_ER-PP-55
ER-PP-56	21.92 cal/cm²	457mm (18in)	2815mm (111in)	208VAC	Wednesday, November 26, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-6055	ER-DP-10_CB_ER-PP-56
ER-PP-57	1.44 cal/cm²	457mm (18in)	512mm (20in)	208VAC	Thursday, November 27, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-7002	ER-PP-55_CB_ER-PP-57
ER-PP-58	1.24 cal/cm²	457mm (18in)	466mm (18in)	208VAC	Friday, November 28, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-7003	ER-PP-55_CB_ER-PP-58
ER-PP-59	0.81 cal/cm²	457mm (18in)	357mm (14in)	208VAC	Saturday, November 29, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-7004	ER-PP-55_CB_ER-PP-59
ER-PP-60	1.22 cal/cm²	457mm (18in)	462mm (18in)	208VAC	Sunday, November 30, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-7005	ER-PP-55_CB_ER-PP-60
ER-PP-61	1.44 cal/cm²	457mm (18in)	512mm (20in)	208VAC	Monday, December 1, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-7006	ER-PP-55_CB_ER-PP-61
ER-PP-62	93.88 cal/cm²	457mm (18in)	6994mm (275in)	208VAC	Tuesday, December 2, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-4058B	ER-DSW-63_NOT FUSED
ER-PP-63	11.68 cal/cm²	457mm (18in)	1898mm (75in)	208VAC	Wednesday, December 3, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-4058	ER-DP-05_CB_ER-PP-63
ER-PP-64	6.48 cal/cm²	457mm (18in)	1313mm (52in)	208VAC	Thursday, December 4, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	RM-4031A	ER-PP-27_CB_ER-PP-64
ER-PP-65-MAIN	18.5 cal/cm²	457mm (18in)	2531mm (100in)	208VAC	Friday, December 5, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	ER-6042	ER-DP-10_CB_ER-PP-65
ER-RC-01	0.32 cal/cm²	457mm (18in)	201mm (8in)	208VAC	Saturday, December 6, 2025	1.1m (42in)	305mm (12in)	0	Panelboard		ER-DSW-21_Fuse_ ER-DSW-21
ER-RC-02	0.07 cal/cm²	457mm (18in)	76mm (3in)	208VAC	Sunday, December 7, 2025	1.1m (42in)	305mm (12in)	0	Panelboard		ER-DSW-22_Fuse_ ER-DSW-22
ER-ROGERS HUT	0.51 cal/cm²	457mm (18in)	267mm (11in)	208VAC	Monday, December 8, 2025	1.1m (42in)	305mm (12in)	0	Panelboard		ER-DSW-120_Fuse_ ER-DSW-120
ER-SPT-02	0.28 cal/cm²	457mm (18in)	184mm (7in)	600VAC	Tuesday, December 9, 2025	1.1m (42in)	305mm (12in)	0	Panelboard		ER-DP-03_CB_ER-SPT-02
ER-SPT-03	0.13 cal/cm²	457mm (18in)	116mm (5in)	600VAC	Wednesday, December 10, 2025	1.1m (42in)	305mm (12in)	0	Panelboard		ER-DSW-119_Fuse_ ER-DSW-119
ER-SPT-04	15.95 cal/cm²	457mm (18in)	2307mm (91in)	208VAC	Thursday, December 11, 2025	1.1m (42in)	305mm (12in)	0	Panelboard		ER-DP-10_CB_SPT-04
ER-TRAN-02-HV	0.74 cal/cm²	457mm (18in)	337mm (13in)	600VAC	Friday, December 12, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1000	ER-DSW-15_NOT FUSED
ER-TRAN-02-LV	267.54 cal/cm²	457mm (18in)	13470mm (530in)	208VAC	Saturday, December 13, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1000	ER-DSW-15_NOT FUSED
ER-TRAN-03-HV	0.57 cal/cm²	457mm (18in)	287mm (11in)	600VAC	Sunday, December 14, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-4058B	ER-DSW-62_NOT FUSED
ER-TRAN-03-LV	120.44 cal/cm²	457mm (18in)	8175mm (322in)	208VAC	Monday, December 15, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-4058B	ER-DSW-62_NOT FUSED
ER-TRAN-04-HV	0.59 cal/cm²	457mm (18in)	293mm (12in)	600VAC	Tuesday, December 16, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-4058C	ER-DSW-64_NOT FUSED
ER-TRAN-04-LV	119.64 cal/cm²	457mm (18in)	8140mm (320in)	208VAC	Wednesday, December 17, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-4058C	ER-DSW-64_NOT FUSED
ER-TRAN-05-HV	0.69 cal/cm²	457mm (18in)	324mm (13in)	600VAC	Thursday, December 18, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-5050C	ER-DSW-105_NOT FUSED
ER-TRAN-05-LV	116.11 cal/cm²	457mm (18in)	7989mm (315in)	208VAC	Friday, December 19, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-5050C	ER-DSW-105_NOT FUSED
ER-TRAN-06-HV	0.66 cal/cm²	457mm (18in)	313mm (12in)	600VAC	Saturday, December 20, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-6053A	ER-DSW-114_NOT FUSED
ER-TRAN-06-LV	167.55 cal/cm²	457mm (18in)	10050mm (396in)	208VAC	Sunday, December 21, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-6053A	ER-DSW-114_NOT FUSED
ER-TRAN-07-HV	0.13 cal/cm²	457mm (18in)	115mm (5in)	600VAC	Monday, December 22, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-5049C	ER-DSW-80_NOT FUSED
ER-TRAN-07-LV	40.14 cal/cm²	457mm (18in)	4110mm (162in)	208VAC	Tuesday, December 23, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-5049C	ER-DSW-80_NOT FUSED
ER-TRAN-08-HV	0.04 cal/cm²	457mm (18in)	58mm (2in)	600VAC	Wednesday, December 24, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-4057B	ER-DSW-61_NOT FUSED
ER-TRAN-08-LV	12.34 cal/cm²	457mm (18in)	1963mm (77in)	208VAC	Thursday, December 25, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-4057B	ER-DSW-61_NOT FUSED
ER-TRAN-09-HV	83.52 cal/cm²	457mm (18in)	6500mm (256in)	600VAC	Friday, December 26, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1000C	ER-DPE-01_CB_ER-TRAN-09
ER-TRAN-09-LV	83.89 cal/cm²	457mm (18in)	6519mm (257in)	208VAC	Saturday, December 27, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1000C	ER-DPE-01_CB_ER-TRAN-09
ER-TRAN-11-HV	0.03 cal/cm²	457mm (18in)	41mm (2in)	600VAC	Sunday, December 28, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-5050C	ER-DSW-111_Fuse_ ER-DSW-111
ER-TRAN-11-LV	29.16 cal/cm²	457mm (18in)	3365mm (132in)	208VAC	Monday, December 29, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-5050C	ER-DSW-111_Fuse_ ER-DSW-111
ER-TRAN-12-HV	0.28 cal/cm²	457mm (18in)	182mm (7in)	600VAC	Tuesday, December 30, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-4058B	ER-DSW-63_NOT FUSED
ER-TRAN-12-LV	65.27 cal/cm²	457mm (18in)	5571mm (219in)	208VAC	Wednesday, December 31, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-4058B	ER-DSW-63_NOT FUSED
ER-TRAN-13-HV	89.59 cal/cm²	457mm (18in)	6792mm (267in)	600VAC	Thursday, January 1, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-4057A	ER-DPE-01_CB_ER-TRAN-13
ER-TRAN-13-LV	76.79 cal/cm²	457mm (18in)	6168mm (243in)	208VAC	Friday, January 2, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-4057A	ER-DPE-01_CB_ER-TRAN-13
ER-TRAN-14-HV	0.98 cal/cm²	457mm (18in)	402mm (16in)	400VAC	Saturday, January 3, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-4006	ER-DSW-71_Fuse_ ER-UPS-02
ER-TRAN-14-LV	0.48 cal/cm²	457mm (18in)	258mm (10in)	208VAC	Sunday, January 4, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-4006	ER-DSW-71_Fuse_ ER-UPS-02

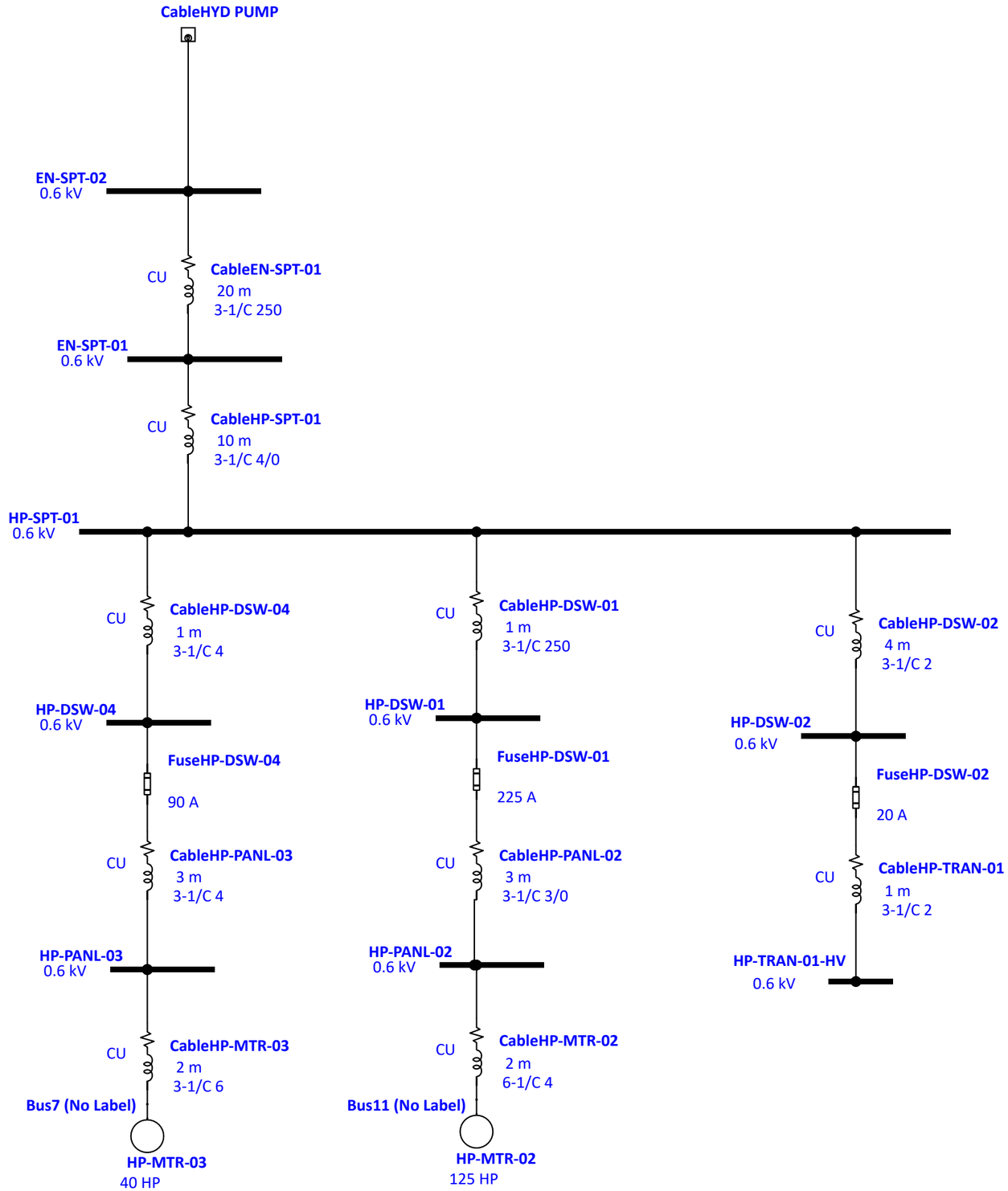
ER-TRAN-15-HV	0.56 cal/cm²	457mm (18in)	282mm (11in)	400VAC	Monday, January 5, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-5042	ER-DSW-76_NOT FUSED
ER-TRAN-15-LV	0.87 cal/cm²	457mm (18in)	375mm (15in)	208VAC	Tuesday, January 6, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-5042	ER-DSW-76_NOT FUSED
ER-TRAN-16-HV	0.74 cal/cm²	457mm (18in)	338mm (13in)	400VAC	Wednesday, January 7, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-5042	ER-DSW-77_NOT FUSED
ER-TRAN-16-LV	1.26 cal/cm²	457mm (18in)	470mm (19in)	220VAC	Thursday, January 8, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-5042	ER-DSW-77_NOT FUSED
ER-TRAN-17-HV	1.57 cal/cm²	457mm (18in)	540mm (21in)	208VAC	Friday, January 9, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-5048	ER-DSW-79_NOT FUSED
ER-TRAN-17-LV	2.48 cal/cm²	457mm (18in)	719mm (28in)	220VAC	Saturday, January 10, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-5048	ER-DSW-79_NOT FUSED
ER-TRAN-19-HV	0.09 cal/cm²	457mm (18in)	93mm (4in)	600VAC	Sunday, January 11, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus		ER-DSW-117_Fuse_ ER-DSW-117
ER-TRAN-19-LV	5.5 cal/cm²	457mm (18in)	1185mm (47in)	240VAC	Monday, January 12, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus		ER-DSW-117_Fuse_ ER-DSW-117
ER-TRAN-20-HV	0.11 cal/cm²	457mm (18in)	103mm (4in)	600VAC	Tuesday, January 13, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus		ER-DSW-119_Fuse_ ER-DSW-119
ER-TRAN-20-LV	27.48 cal/cm²	457mm (18in)	3242mm (128in)	208VAC	Wednesday, January 14, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus		ER-DSW-119_Fuse_ ER-DSW-119
ER-TRAN-55-HV	0.06 cal/cm²	457mm (18in)	74mm (3in)	600VAC	Thursday, January 15, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus		ER-DSW-55_Fuse_ ER-TRAN-55
ER-TRAN-55-LV	0.15 cal/cm²	457mm (18in)	127mm (5in)	277VAC	Friday, January 16, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus		ER-DSW-55_Fuse_ ER-TRAN-55
ER-UPS-01	42.31 cal/cm²	457mm (18in)	4248mm (167in)	208VAC	Saturday, January 17, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	ER-5050C	ER-DSW-111_Fuse_ ER-DSW-111
ER-UPS-02	0.7 cal/cm²	457mm (18in)	325mm (13in)	208VAC	Sunday, January 18, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	ER-4006	ER-DSW-71_Fuse_ ER-UPS-02
ER-UPS-03	7.15 cal/cm²	457mm (18in)	1396mm (55in)	208VAC	Monday, January 19, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	ER-5005B	ER-DSW-85_Fuse_ER-DSW-85

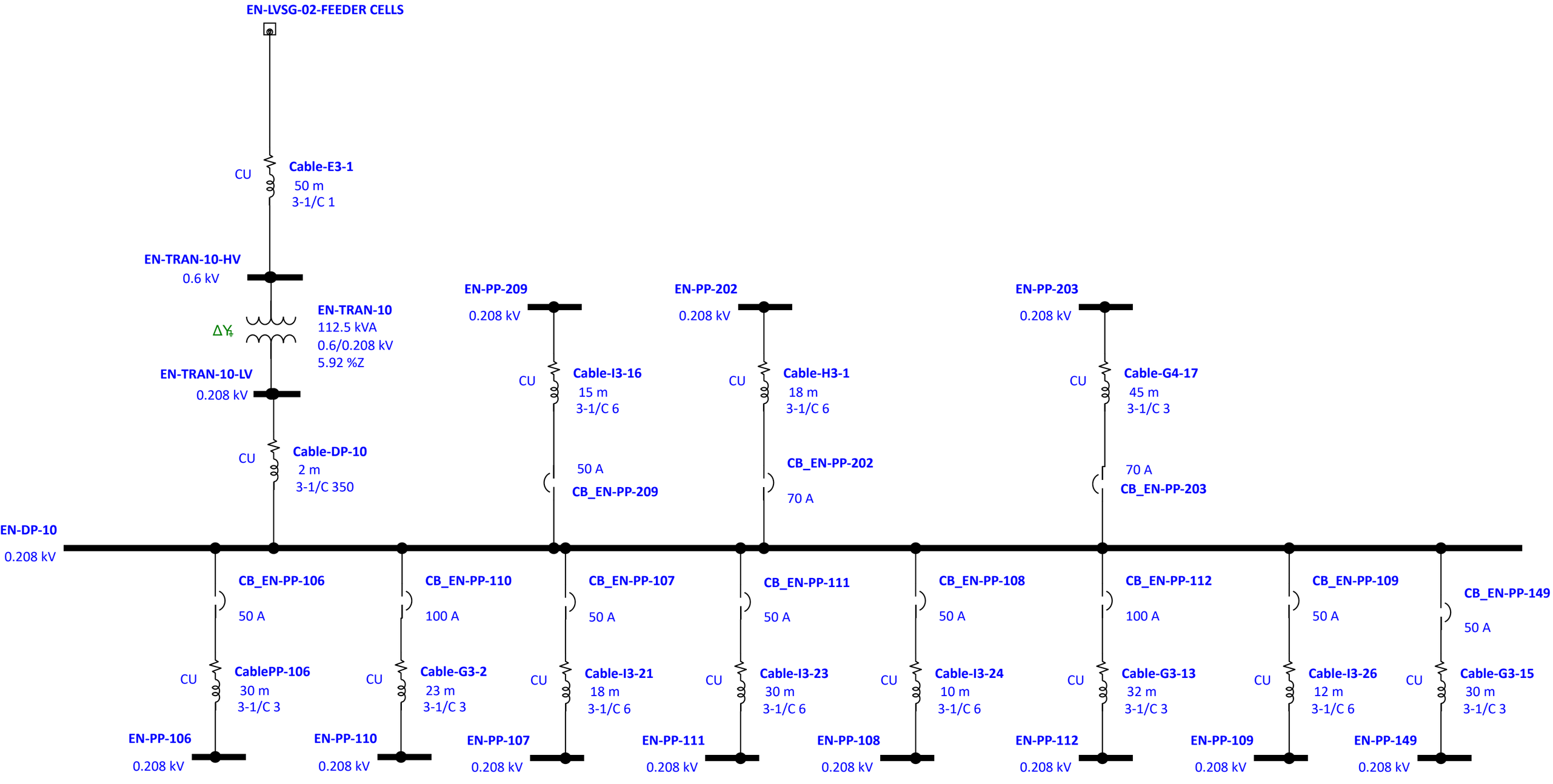
One-Line Diagram - EN_1 | Edit Mode



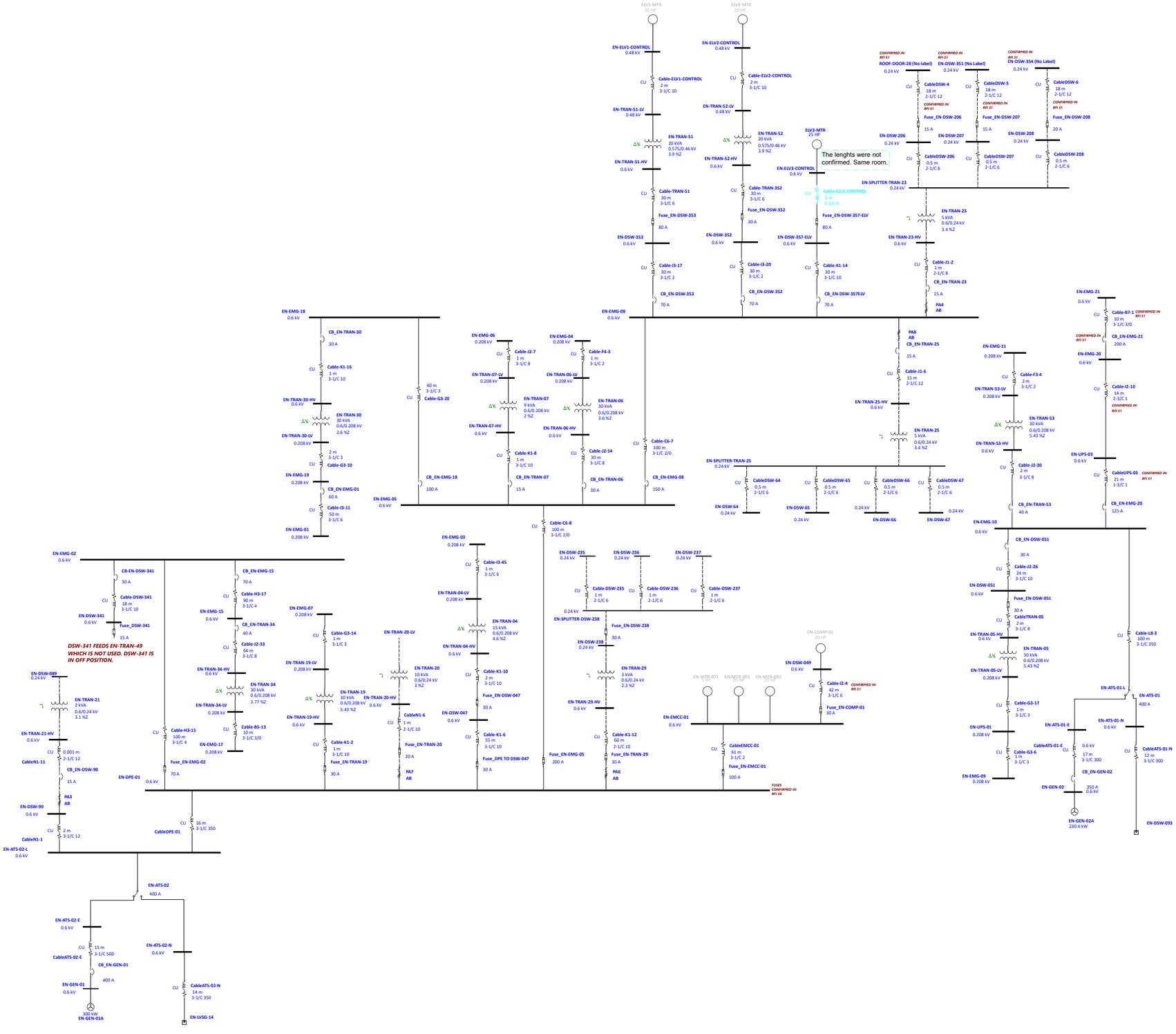

EN-PP-214
0.208 kV
EN-PP-220
0.208 kV
Cable-B6-4
1 m
3-1/C 3/0
Cable-B6-6
25 m
3-1/C 3/0
200 A
CB_EN-PP-214
200 A
CB_EN-PP-220
EN-DP-12
0.208 kV
CableDP-12
45 m
6-1/C 3/0
200 A
CB_EN-PP-132
200 A
CB_EN-PP-136
Cable-B6-8
30 m
3-1/C 3/0
Cable-B6-10
20 m
3-1/C 3/0
EN-TRAN-14-LV
0.208 kV
EN-PP-132
0.208 kV
EN-PP-136
0.208 kV
EN-TRAN-14
112.5 kVA
0.6/0.208 kV
5.92 %Z
CONFIRMED IN RFI 51
100 A
CB_EN-EMG-16
CONFIRMED IN RFI 51
Cable-G4-16
5 m
3-1/C 3
EN-EMG-16
0.208 kV
CONFIRMED IN RFI 51
EN-TRAN-14-HV
0.6 kV
Cable-DS-3
40 m
3-1/C 1/0
200 A
CB_EN-TRAN-14
EN-LVSG-02-FEEDER CELLS
EN-PP-211
0.6 kV
EN-PP-219
0.6 kV
CableDP-11
60 m
3-1/C 350
Cable-G4-6
18 m
3-1/C 3
Cable-I3-1
45 m
3-1/C 8
CB_EN-PP-211
100 A
CB_EN-PP-219
30 A
EN-DP-11
0.6 kV
CB_EN-PP-162
50 A
CB_EN-PP-157
70 A
CB_EN-PP-163
50 A
CB_EN-PP-158
50 A
CB_EN-PP-156
70 A
CB_EN-DP-16
200 A
CB_EN-TRAN-11
200 A
Cable-I3-2
30 m
3-1/C 6
Cable-I3-6
40 m
3-1/C 6
Cable-I3-7
20 m
3-1/C 6
Cable-J2-3
66 m
3-1/C 8
Cable-I3-8
30 m
3-1/C 6
CONFIRMED IN RFI 58
Cable-C6-2
51 m
3-1/C 3/0
EN-PP-162
0.6 kV
EN-PP-157
0.6 kV
EN-PP-163
0.6 kV
EN-PP-158
0.6 kV
EN-PP-156
0.6 kV
EN-DSW-069
0.6 kV
CONFIRMED IN RFI 51
CB_EN-TRAN-43
50 A
CB_EN-TRAN-42
30 A
Cable-TRAN-11
1 m
3-1/C 2/0
Cable-TRAN-43
50 m
3-1/C 6
Cable-TRAN-42
15 m
3-1/C 10
EN-TRAN-11-HV
0.6 kV
EN-TRAN-43-HV
0.6 kV
EN-TRAN-42-HV
0.6 kV
EN-TRAN-11
150 kVA
0.6/0.208 kV
6.47 %Z
EN-TRAN-43
45 kVA
0.6/0.208 kV
5.3 %Z
EN-TRAN-42
30 kVA
0.6/0.23 kV
6 %Z
EN-TRAN-11-LV
0.208 kV
Cable-B6-2
30 m
6-1/C 3/0
EN-TRAN-43-LV
0.208 kV
EN-TRAN-42-LV
0.23 kV
Cable-DSW-285
3 m
3-1/C 3
CableDP-16
3 m
3-1/C 3/0
EN-DSW-285
0.23 kV
Fuse_EN-DSW-285
40 A
EN-DP-16
0.6 kV
PA-TRAN-12
AB
CB_EN-TRAN-13
100 A
CB_EN-DSW-230
50 A
CB_EN-DSW-231
50 A
CB_EN-DSW-357
50 A
CB_EN-DSW-348
50 A
CB_EN-DSW-347
50 A
CB_EN-DSW-240
50 A
CB_EN-TRAN-12
30 A
Cable-F3-1
8 m
3-1/C 1
CableDSW-230
64 m
3-1/C 8
CableDSW-231
64 m
3-1/C 8
CableDSW-357
49 m
3-1/C 6
CableDSW-348
49 m
3-1/C 6
CableDSW-347
49 m
3-1/C 6
CableDSW-240
24 m
3-1/C 12
Cable-K1-7
8 m
2-1/C 10
EN-TRAN-13-HV
0.6 kV
EN-DSW-230
0.6 kV
EN-DSW-231
0.6 kV
EN-DSW-357
0.6 kV
EN-DSW-348
0.6 kV
EN-DSW-347
0.6 kV
EN-DSW-240
0.6 kV
EN-TRAN-12-HV
0.6 kV
EN-TRAN-13
75 kVA
0.6/0.208 kV
5.96 %Z
EN-PP-204
0.208 kV
EN-PP-205
0.208 kV
EN-TRAN-12
25 kVA
0.6/0.24 kV
4.09 %Z
EN-TRAN-13-LV
0.208 kV
Cable-J2-5
35 m
3-1/C 8
Cable-G4-4
20 m
3-1/C 3
Cable-DP-17
2 m
3-1/C 3/0
CB_EN-PP-204
40 A
CB_EN-PP-205
100 A
EN-TRAN-12-LV
0.24 kV
Cable-DSW-068
2 m
2-1/C 6
EN-DP-17
0.208 kV
EN-DSW-068
0.24 kV
Fuse_EN-DSW-068
60 A
CB_EN-PP-153
40 A
CB_EN-PP-154
40 A
CB_EN-PP-177
100 A
CB_EN-PP-175
100 A
CB_EN-PP-178
100 A
CB_EN-PP-114
150 A
CB_EN-PP-172
70 A
Cable-I3-10
30 m
2-1/C 6
Cable-J2-8
20 m
3-1/C 8
Cable-J2-10
20 m
3-1/C 8
Cable-G4-9
20 m
3-1/C 3
Cable-G4-11
20 m
3-1/C 3
Cable-G4-12
40 m
3-1/C 3
Cable-I3-13
2 m
3-1/C 6
Cable-I3-14
45 m
3-1/C 6
EN-PP-176
0.24 kV
EN-PP-153
0.208 kV
EN-PP-154
0.208 kV
EN-PP-177
0.208 kV
EN-PP-175
0.208 kV
EN-PP-178
0.208 kV
EN-PP-114
0.208 kV
EN-PP-172
0.208 kV
CB_EN-PP-195
70 A
Cable-PP-195
2 m
3-1/C 6
EN-PP-195
0.208 kV
EN-PP-201
0.208 kV
EN-PP-218
0.208 kV
CablePP-201
1 m
3-1/C 2
Cable-G4-14
7 m
3-1/C 3
100 A
CB_EN-PP-201
125 A
CB_EN-PP-218
EN-PP-200
0.208 kV


EN-LVSG-02-FEEDER CELLS
CU
Cable-D5-19
35 m
3-1/C 1/0
EN-TRAN-02-HV
0.6 kV
ΔY
EN-TRAN-02
112.5 kVA
0.6/0.208 kV
5.92 %Z
EN-TRAN-02-LV
0.208 kV
CU
Cable-DP-03
3 m
3-1/C 350
EN-DP-03
0.208 kV
EN-PP-206
0.208 kV
CU
Cable-I3-31
33 m
3-1/C 6
50 A
CB_EN-PP-206
EN-PP-207
0.208 kV
CU
Cable-H3-2
25 m
3-1/C 4
70 A
CB_EN-PP-207
EN-PP-208
0.208 kV
CU
Cable-G4-18
40 m
3-1/C 3
100 A
CB_EN-PP-208
CB_EN-PP-117
40 A
CU
Cable-J2-11
25 m
3-1/C 8
EN-PP-117
0.208 kV
CB_EN-PP-115
60 A
CU
Cable-H4-2
35 m
3-1/C 4
EN-PP-115
0.208 kV
CB_EN-PP-119
70 A
CU
Cable-D5-20
30 m
3-1/C 1/0
EN-PP-119
0.208 kV
CB_EN-PP-116
100 A
CU
Cable-F3-5
40 m
3-1/C 2
EN-PP-116
0.208 kV
CB_EN-PP-120
100 A
CU
Cable-G3-16
15 m
3-1/C 3
EN-PP-120
0.208 kV
CB_EN-TRAN-41
15 A
CU
Cable-K1-4
10 m
3-1/C 10
EN-TRAN-41-LV
0.208 kV
ΔΔ
EN-TRAN-41
6 kVA
0.6/0.208 kV
2.3 %Z
EN-TRAN-41-HV
0.6 kV
CU
Cable-DSW-283
1 m
3-1/C 8
EN-DSW-283
0.6 kV
CU
Cable-DSW-284
1 m
3-1/C 8
EN-DSW-284
0.6 kV
CB_EN-TRAN-26
60 A
PA1
AB
CU
Cable-I3-33
4 m
2-1/C 6
EN-TRAN-26-HV
0.208 kV
EN-TRAN-26
15 kVA
0.208/0.24 kV
6 %Z
EN-TRAN-26-LV
0.24 kV
CU
Cable-I3-35
3 m
2-1/C 6
EN-PP-179
0.24 kV

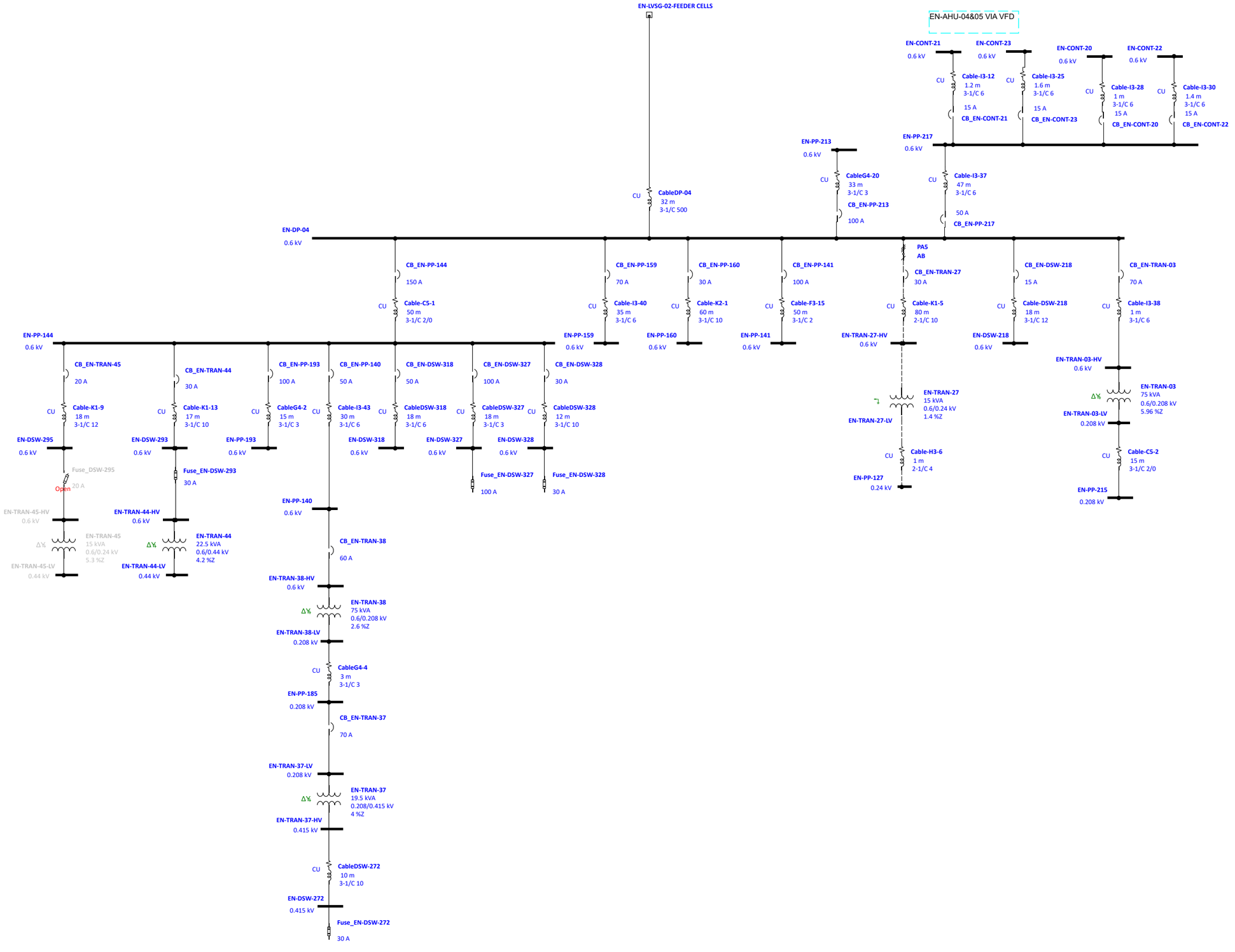

CableHYD PUMP
EN-SPT-02
0.6 kV
CU
CableEN-SPT-01
20 m
3-1/C 250
EN-SPT-01
0.6 kV
CU
CableHP-SPT-01
10 m
3-1/C 4/0
HP-SPT-01
0.6 kV
CU
CableHP-DSW-04
1 m
3-1/C 4
HP-DSW-04
0.6 kV
FuseHP-DSW-04
90 A
CU
CableHP-PANL-03
3 m
3-1/C 4
HP-PANL-03
0.6 kV
CU
CableHP-MTR-03
2 m
3-1/C 6
Bus7 (No Label)
HP-MTR-03
40 HP
CU
CableHP-DSW-01
1 m
3-1/C 250
HP-DSW-01
0.6 kV
FuseHP-DSW-01
225 A
CU
CableHP-PANL-02
3 m
3-1/C 3/0
HP-PANL-02
0.6 kV
CU
CableHP-MTR-02
2 m
6-1/C 4
Bus11 (No Label)
HP-MTR-02
125 HP
CU
CableHP-DSW-02
4 m
3-1/C 2
HP-DSW-02
0.6 kV
FuseHP-DSW-02
20 A
CU
CableHP-TRAN-01
1 m
3-1/C 2
HP-TRAN-01-HV
0.6 kV


EN-LVSG-02-FEEDER CELLS
CU
Cable-E3-1
50 m
3-1/C 1
EN-TRAN-10-HV
0.6 kV
ΔY
EN-TRAN-10
112.5 kVA
0.6/0.208 kV
5.92 %Z
EN-TRAN-10-LV
0.208 kV
CU
Cable-DP-10
2 m
3-1/C 350
EN-DP-10
0.208 kV
EN-PP-209
0.208 kV
CU
Cable-I3-16
15 m
3-1/C 6
50 A
CB_EN-PP-209
EN-PP-202
0.208 kV
CU
Cable-H3-1
18 m
3-1/C 6
CB_EN-PP-202
70 A
EN-PP-203
0.208 kV
CU
Cable-G4-17
45 m
3-1/C 3
70 A
CB_EN-PP-203
CB_EN-PP-106
50 A
CU
CablePP-106
30 m
3-1/C 3
EN-PP-106
0.208 kV
CB_EN-PP-110
100 A
CU
Cable-G3-2
23 m
3-1/C 3
EN-PP-110
0.208 kV
CB_EN-PP-107
50 A
CU
Cable-I3-21
18 m
3-1/C 6
EN-PP-107
0.208 kV
CB_EN-PP-111
50 A
CU
Cable-I3-23
30 m
3-1/C 6
EN-PP-111
0.208 kV
CB_EN-PP-108
50 A
CU
Cable-I3-24
10 m
3-1/C 6
EN-PP-108
0.208 kV
CB_EN-PP-112
100 A
CU
Cable-G3-13
32 m
3-1/C 3
EN-PP-112
0.208 kV
CB_EN-PP-109
50 A
CU
Cable-I3-26
12 m
3-1/C 6
EN-PP-109
0.208 kV
CB_EN-PP-149
50 A
CU
Cable-G3-15
30 m
3-1/C 3
EN-PP-149
0.208 kV

One-Line Diagram - EN->EN-EM | Edit Mode



One-Line Diagram - EN->EN-DP-04-CCT | Edit Mode



Arc Flash Labels for Panels

VDP_TAG	VDP_INCIDENT	VDP_WORKING	VDP_ARCFLASH	VDP_NOMINAL	VDP_PERFORMED	VDP_Limited	VDP_Restricted	VDP_Gloves	VDP_Equipment	VDP_Location	VDP_Fed From
EN-CONT-01	3.8 cal/cm²	457mm (18in)	941mm (37in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1037H	EN-DSW-094_Fuse-EN-DSW-094
EN-CONT-05	0.11 cal/cm²	457mm (18in)	103mm (4in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1035	EN-DSW-263_Fuse_EN-DSW-263
EN-DP-01	0.33 cal/cm²	610mm (24in)	273mm (11in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	RM-1036G	EN-DP-05_CB_EN-DP-01
EN-DP-03	64.39 cal/cm²	610mm (24in)	7366mm (290in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	RM-2059	EN-LVSG-02_CB_EN-TRAN-02
EN-DP-05	1.7 cal/cm²	610mm (24in)	759mm (30in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	RM-1037H	EN-LVSG-07_CB_EN-LVSG-07
EN-DP-07	0.34 cal/cm²	610mm (24in)	277mm (11in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	RM-1034	EN-DP-09_CB_EN-TRAN-09
EN-DP-08	39.06 cal/cm²	610mm (24in)	5387mm (212in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	RM-1038F	EN-DSW-216_NOT FUSED
EN-DP-09	0.85 cal/cm²	610mm (24in)	489mm (19in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	RM-1034	EN-LVSG-16_CB_EN-LVSG-16
EN-DP-14	0.52 cal/cm²	610mm (24in)	363mm (14in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	RM-3037	EN-LVSG-02_CB_EN-DP-14
EN-DP-15	85.43 cal/cm²	610mm (24in)	8791mm (346in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	RM-3037	EN-LVSG-02_CB_EN-TRAN-16
EN-DP-18	64.6 cal/cm²	610mm (24in)	7381mm (291in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	RM-4022	EN-LVSG-02_CB_EN-TRAN-17
EN-DP-19	1.3 cal/cm²	610mm (24in)	641mm (25in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	RM-2019	EN-LVSG-02_CB_EN-DP-19
EN-DP-20	77.35 cal/cm²	610mm (24in)	8261mm (325in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	RM-2119	EN-DP-19_CB_EN-TRAN-54
EN-DSW-009	0.32 cal/cm²	457mm (18in)	199mm (8in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	EN-2EROOF	EN-PP-255_CB_EN-DSW-009
EN-DSW-010	0.01 cal/cm²	457mm (18in)	25mm (1in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	EN-2EROOF	EN-PP-251_CB_EN-DSW-10
EN-DSW-043	1.42 cal/cm²	457mm (18in)	509mm (20in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-2059	EN-DSW-044_NOT FUSED
EN-DSW-044	1.46 cal/cm²	457mm (18in)	516mm (20in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-2059	EN-LVSG-02_CB_EN-DSW-044
EN-DSW-045	1.43 cal/cm²	457mm (18in)	510mm (20in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-2059	EN-DSW-044_NOT FUSED
EN-DSW-046	1.29 cal/cm²	457mm (18in)	479mm (19in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-2059	EN-DSW-044_NOT FUSED
EN-DSW-048	2.19 cal/cm²	457mm (18in)	666mm (26in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1036	EN-LVSG-12_CB_EN-LVSG-12
EN-DSW-050	0.09 cal/cm²	457mm (18in)	93mm (4in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1037H	EN-PP-171_EN-DSW-050
EN-DSW-052	0.1 cal/cm²	457mm (18in)	96mm (4in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-3034	EN-MCC-02_Fuse_EN-DSW-052
EN-DSW-053	0.33 cal/cm²	457mm (18in)	204mm (8in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-3034	EN-MCC-02_Fuse_EN-DSW-053
EN-DSW-060	0.21 cal/cm²	457mm (18in)	152mm (6in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-4024	EN-MCC-02_Fuse_EN-DSW-060
EN-DSW-061	0.32 cal/cm²	457mm (18in)	202mm (8in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-4024	EN-MCC-02_Fuse_EN-DSW-061
EN-DSW-062	0.17 cal/cm²	457mm (18in)	136mm (5in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-4024	EN-MCC-02_Fuse_EN-DSW-062
EN-DSW-063	0.37 cal/cm²	457mm (18in)	218mm (9in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-4024	EN-MCC-02_Fuse_EN-DSW-63
EN-DSW-071	42.88 cal/cm²	457mm (18in)	4283mm (169in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-3023	EN-DP-14_CB_EN-TRAN-18
EN-DSW-085	1.8 cal/cm²	457mm (18in)	588mm (23in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1037H	EN-DSW-087_Fuse-EN-DSW-087
EN-DSW-086	1.8 cal/cm²	457mm (18in)	588mm (23in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1037H	EN-DSW-087_Fuse-EN-DSW-087
EN-DSW-087	0.13 cal/cm²	457mm (18in)	115mm (5in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1037H	EN-DP-05_CB_EN-SPLITTER
EN-DSW-088	0.13 cal/cm²	457mm (18in)	115mm (5in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1037H	EN-DP-05_CB_EN-SPLITTER
EN-DSW-093	2.59 cal/cm²	457mm (18in)	739mm (29in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1037H	EN-LVSG-10_CB_EN-LVSG-10
EN-DSW-094	10.9 cal/cm²	457mm (18in)	1818mm (72in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1037H	EN-DSW-088_Fuse-EN-DSW-088
EN-DSW-145	0.2 cal/cm²	457mm (18in)	150mm (6in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1035	EN-DSW-146_NOT FUSED
EN-DSW-146	0.2 cal/cm²	457mm (18in)	151mm (6in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1035	EN-PP-146_CB_EN-DSW-146
EN-DSW-193	6.85 cal/cm²	457mm (18in)	1359mm (54in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1033	EN-PP-101_CB_EN-DSW-193
EN-DSW-194	6.93 cal/cm²	457mm (18in)	1370mm (54in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1033	EN-DSW-193_NOT FUSED
EN-DSW-201	0.03 cal/cm²	457mm (18in)	44mm (2in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1033	EN-PP-145_CB_EN-DSW-201
EN-DSW-203	0.13 cal/cm²	457mm (18in)	114mm (4in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1033	EN-PP-145_CB_EN-DSW-203 (CRANE)
EN-DSW-216	53.69 cal/cm²	457mm (18in)	4930mm (194in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1038F	EN-DSW-043_Fuse_EN-DSW-043
EN-DSW-225	0.08 cal/cm²	457mm (18in)	82mm (3in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1035E	EN-DSW-226_NOT FUSED
EN-DSW-226	0.08 cal/cm²	457mm (18in)	82mm (3in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1035E	EN-PP-147_CB_EN-DSW-226
EN-DSW-242	0.19 cal/cm²	457mm (18in)	143mm (6in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard		EN-PP-147_CB_EN-DSW-242
EN-DSW-244	0.14 cal/cm²	457mm (18in)	117mm (5in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1035	EN-PP-147_CB_EN-DSW-244
EN-DSW-247	0.2 cal/cm²	457mm (18in)	147mm (6in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1035	EN-PP-146_CB_EN-DSW-247
EN-DSW-248	0.12 cal/cm²	457mm (18in)	108mm (4in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1035	EN-PP-146_CB_EN-DSW-248
EN-DSW-250	1.34 cal/cm²	457mm (18in)	489mm (19in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard		EN-DP-07_CB_EN-DSW-250
EN-DSW-252	5.27 cal/cm²	457mm (18in)	1154mm (45in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-3023	EN-DSW-071_Fuse_EN-DSW-071
EN-DSW-253	0.06 cal/cm²	457mm (18in)	72mm (3in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard		EN-DP-20_CB_EN-DSW-253
EN-DSW-255	0.21 cal/cm²	457mm (18in)	152mm (6in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1035	EN-DSW-256_NOT FUSED
EN-DSW-256	0.24 cal/cm²	457mm (18in)	166mm (7in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1035	EN-PP-147_CB_EN-DSW-256
EN-DSW-259	0.24 cal/cm²	457mm (18in)	167mm (7in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1035	EN-PP-146_CB_EN-DSW-259
EN-DSW-260	0.24 cal/cm²	457mm (18in)	167mm (7in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1035	EN-DSW-259_CB_EN-DSW-259
EN-DSW-263	0.11 cal/cm²	457mm (18in)	103mm (4in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1035	EN-PP-146_CB_EN-DSW-263
EN-DSW-264	0.05 cal/cm²	457mm (18in)	66mm (3in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard		EN-DP-09_CB_EN-DSW-264
EN-DSW-268	0.21 cal/cm²	457mm (18in)	152mm (6in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1034A	EN-DP-09_CB_EN-DSW-268
EN-DSW-283	0.17 cal/cm²	457mm (18in)	134mm (5in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1019A	EN-PP-117_CB_EN-TRAN-41
EN-DSW-284	0.17 cal/cm²	457mm (18in)	134mm (5in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1019A	EN-PP-117_CB_EN-TRAN-41
EN-DSW-296	7.95 cal/cm²	457mm (18in)	1493mm (59in)	480VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard		EN-DSW-300_Fuse-EN-DSW-300
EN-DSW-300	7.95 cal/cm²	457mm (18in)	1493mm (59in)	480VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1023T	EN-DSW-301_CB_EN-TRAN-39
EN-DSW-301	7.94 cal/cm²	457mm (18in)	1490mm (59in)	480VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1023T	EN-PP-188_CB_EN-TRAN-39
EN-DSW-302	0.19 cal/cm²	457mm (18in)	146mm (6in)	460VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1023T	EN-PP-188_CB_EN-TRAN-58
EN-DSW-309	5.29 cal/cm²	457mm (18in)	1156mm (46in)	480VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1036G	EN-DP-01_CB_EN-TRAN-47
EN-DSW-310	0.42 cal/cm²	457mm (18in)	236mm (9in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1036G	EN-DP-01_CB_EN-HPU
EN-DSW-311	0.32 cal/cm²	457mm (18in)	199mm (8in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1036G	EN-DP-01_CB_EN-AIR COMP
EN-DSW-312	0.42 cal/cm²	457mm (18in)	235mm (9in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1036G	EN-DP-01_CB_EN-PUMP #2
EN-DSW-313	0.43 cal/cm²	457mm (18in)	240mm (9in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1036G	EN-DP-01_CB_EN-PUMP #3
EN-DSW-314	0.43 cal/cm²	457mm (18in)	240mm (9in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1036G	EN-DP-01_CB_EN-PUMP #4
EN-DSW-316	5.3 cal/cm²	457mm (18in)	1158mm (46in)	480VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1036G	EN-DSW-309_NOT FUSED

EN-DSW-338	0.14 cal/cm²	457mm (18in)	117mm (5in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-2035	EN-PP-146_CB_EN-DSW-338
EN-EF-046	0.1 cal/cm²	457mm (18in)	96mm (4in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	EN-2ROOF	EN-DSW-201_NOT FUSED
EN-HVAC-05	0.35 cal/cm²	457mm (18in)	210mm (8in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-2019	EN-DP-19_CB_EN-HVAC-05
EN-HVSG-01-BOTTOM	1.1 cal/cm²	914mm (36in)	864mm (34in)	12500VAC	Wednesday, June 24, 2026	1.5m (60in)	658mm (26in)	2	Switchgear	RM-1037H	ER-HVSG-04_BK-ER-HVSG-04
EN-HVSG-01-TOP	1.1 cal/cm²	914mm (36in)	864mm (34in)	12500VAC	Wednesday, June 24, 2026	1.5m (60in)	658mm (26in)	2	Switchgear	RM-1037H	ER-HVSG-04_BK-ER-HVSG-04
EN-HVSG-02-BOTTOM	0.13 cal/cm²	914mm (36in)	224mm (9in)	12500VAC	Wednesday, June 24, 2026	1.5m (60in)	658mm (26in)	2	Switchgear	RM-1037H	EN-HVSG-02-TOP_Fuse_EN-HVSG-02
EN-HVSG-02-TOP	1.1 cal/cm²	914mm (36in)	864mm (34in)	12500VAC	Wednesday, June 24, 2026	1.5m (60in)	658mm (26in)	2	Switchgear	RM-1037H	SW_EN-HVSG-01
EN-HVSG-03-BOTTOM	0.13 cal/cm²	914mm (36in)	224mm (9in)	12500VAC	Wednesday, June 24, 2026	1.5m (60in)	658mm (26in)	2	Switchgear	RM-1037H	EN-HVSG-03-TOP_Fuse_EN-HVSG-03
EN-HVSG-03-TOP	1.1 cal/cm²	914mm (36in)	864mm (34in)	12500VAC	Wednesday, June 24, 2026	1.5m (60in)	658mm (26in)	2	Switchgear	RM-1037H	SW_EN-HVSG-01
EN-HVSG-04-BOTTOM	0.13 cal/cm²	914mm (36in)	224mm (9in)	12500VAC	Wednesday, June 24, 2026	1.5m (60in)	658mm (26in)	2	Switchgear	RM-1037H	EN-HVSG-04-TOP_Fuse_EN-HVSG-04
EN-HVSG-04-TOP	1.1 cal/cm²	914mm (36in)	864mm (34in)	12500VAC	Wednesday, June 24, 2026	1.5m (60in)	658mm (26in)	2	Switchgear	RM-1037H	SW_EN-HVSG-01
EN-HVSG-05	0.13 cal/cm²	914mm (36in)	219mm (9in)	12500VAC	Wednesday, June 24, 2026	1.5m (60in)	658mm (26in)	2	Switchgear	RM-3034	EN-HVSG-03_Fuse_EN-HVSG-03
EN-HVTR-01-HV	0.15 cal/cm²	914mm (36in)	245mm (10in)	12500VAC	Wednesday, June 24, 2026	1.5m (60in)	658mm (26in)	2	Cable Bus	RM-1037H	EN-HVSG-04_Fuse_EN-HVSG-04
EN-HVTR-01-LV	135.17 cal/cm²	457mm (18in)	8787mm (346in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1037H	EN-HVSG-04_Fuse_EN-HVSG-04
EN-HVTR-02-HV	0.15 cal/cm²	914mm (36in)	239mm (9in)	12500VAC	Wednesday, June 24, 2026	1.5m (60in)	658mm (26in)	2	Cable Bus	RM-3034	EN-HVSG-05_NOT FUSED
EN-HVTR-02-LV	10.1 cal/cm²	457mm (18in)	1733mm (68in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-3034	EN-HVSG-05_NOT FUSED
EN-LVSG-01	120.82 cal/cm²	610mm (24in)	10921mm (430in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Switchgear	EN-1037H	EN-HVSG-04_Fuse_EN-HVSG-04
EN-LVSG-02-FEEDER CELLS	10.72 cal/cm²	610mm (24in)	2398mm (94in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Switchgear	RM-3034	EN-LVSG-02-INCOMER_Fuse_EN-HVSG-03
EN-LVSG-02-INCOMER	10.72 cal/cm²	610mm (24in)	2398mm (94in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Switchgear	RM-3034	EN-HVSG-05_NOT FUSED
EN-LVSG-03	2.02 cal/cm²	610mm (24in)	845mm (33in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Switchgear	EN-1037H	EN-LVSG-01_CB_EN-LVSG-01
EN-LVSG-04	2.03 cal/cm²	610mm (24in)	846mm (33in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Switchgear	EN-1037H	EN-LVSG-01_CB_EN-LVSG-01
EN-LVSG-07	2.02 cal/cm²	610mm (24in)	844mm (33in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Switchgear	EN-1037H	EN-LVSG-03_EN-LVSG-03
EN-LVSG-10	2.02 cal/cm²	610mm (24in)	844mm (33in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Switchgear	EN-1037H	EN-LVSG-03_EN-LVSG-03
EN-LVSG-12	2.02 cal/cm²	610mm (24in)	844mm (33in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Switchgear	EN-1037H	EN-LVSG-03_EN-LVSG-03
EN-LVSG-13	2.02 cal/cm²	610mm (24in)	844mm (33in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Switchgear	EN-1037H	EN-LVSG-03_EN-LVSG-03
EN-LVSG-14	2.02 cal/cm²	610mm (24in)	844mm (33in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Switchgear	EN-1037H	EN-LVSG-03_EN-LVSG-03
EN-LVSG-16	2.02 cal/cm²	610mm (24in)	844mm (33in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Switchgear	EN-1037H	EN-LVSG-03_EN-LVSG-03
EN-LVSG-17	2.02 cal/cm²	610mm (24in)	844mm (33in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Switchgear	EN-1037H	EN-LVSG-03_EN-LVSG-03
EN-LVSG-18	2.02 cal/cm²	610mm (24in)	844mm (33in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Switchgear	EN-1037H	EN-LVSG-03_EN-LVSG-03
EN-LVSG-19	2.02 cal/cm²	610mm (24in)	844mm (33in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Switchgear	EN-1037H	EN-LVSG-03_EN-LVSG-03
EN-LVSG-SPARES	2.02 cal/cm²	610mm (24in)	844mm (33in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Switchgear	EN-1037H	EN-LVSG-03_EN-LVSG-03
EN-MCC-01	1.46 cal/cm²	457mm (18in)	518mm (20in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	MCC	RM-1036C	EN-LVSG-19_CB_EN-MCC-01
EN-MCC-02	1.2 cal/cm²	457mm (18in)	456mm (18in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	MCC	RM-3034	EN-LVSG-02_CB_EN-MCC-02
EN-PP-101	0.12 cal/cm²	457mm (18in)	107mm (4in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1033	EN-DP-07_CB_EN-PP-101
EN-PP-102	0.14 cal/cm²	457mm (18in)	121mm (5in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1034	EN-DP-07_CB_EN-PP-102
EN-PP-103	0.14 cal/cm²	457mm (18in)	118mm (5in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1034	EN-DP-07_CB_EN-PP-103
EN-PP-104	4.96 cal/cm²	457mm (18in)	1110mm (44in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1035	EN-DP-07_CB_EN-PP-104
EN-PP-105	2 cal/cm²	457mm (18in)	629mm (25in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1C03	EN-DP-07_CB_EN-PP-105
EN-PP-115	0.02 cal/cm²	457mm (18in)	30mm (1in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1019B	EN-DP-03_CB_EN-PP-115
EN-PP-116	5.83 cal/cm²	457mm (18in)	1229mm (48in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1020	EN-DP-03_CB_EN-PP-116
EN-PP-117	0.01 cal/cm²	457mm (18in)	24mm (1in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1019A	EN-DP-03_CB_EN-PP-117
EN-PP-118	8.85 cal/cm²	457mm (18in)	1596mm (63in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1021	EN-DP-08_CB_EN-PP-118
EN-PP-119	0.03 cal/cm²	457mm (18in)	43mm (2in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1020	EN-DP-03_CB_EN-PP-119
EN-PP-120	5.11 cal/cm²	457mm (18in)	1131mm (45in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1C01	EN-DP-03_CB_EN-PP-120
EN-PP-121	0.5 cal/cm²	457mm (18in)	265mm (10in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1023	EN-DP-07_CB_EN-PP-121
EN-PP-122	6.71 cal/cm²	457mm (18in)	1342mm (53in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1023	EN-DP-07_CB_EN-PP-122
EN-PP-123	3.18 cal/cm²	457mm (18in)	841mm (33in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1023F	EN-DP-07_CB_EN-PP-123
EN-PP-124	2.04 cal/cm²	457mm (18in)	636mm (25in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1023F	EN-DP-07_CB_EN-PP-124
EN-PP-125	1.81 cal/cm²	457mm (18in)	592mm (23in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1026D	EN-DP-07_CB_EN-PP-125
EN-PP-126	6.19 cal/cm²	457mm (18in)	1276mm (50in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1026D	EN-DP-07_CB_EN-PP-126
EN-PP-128	7.2 cal/cm²	457mm (18in)	1402mm (55in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1021C	EN-DP-08_CB_EN-PP-128
EN-PP-130	6.93 cal/cm²	457mm (18in)	1370mm (54in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1038C	EN-DP-08_CB_EN-PP-130
EN-PP-131	5.65 cal/cm²	457mm (18in)	1205mm (47in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1038A	EN-DP-08_CB_EN-PP-131
EN-PP-133	7.29 cal/cm²	457mm (18in)	1413mm (56in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1021C	EN-DP-08_CB_EN-PP-133
EN-PP-134	5.65 cal/cm²	457mm (18in)	1205mm (47in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1038B	EN-DP-08_CB_EN-PP-134
EN-PP-135	7.96 cal/cm²	457mm (18in)	1493mm (59in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1038	EN-DP-08_CB_EN-PP-135
EN-PP-137	3.88 cal/cm²	457mm (18in)	953mm (38in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1037H	EN-DSW-094_Fuse-EN-DSW-094
EN-PP-139	1.81 cal/cm²	457mm (18in)	592mm (23in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1035E	EN-DSW-255_Fuse_EN-DSW-225
EN-PP-145	1.09 cal/cm²	457mm (18in)	430mm (17in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1033	CB_CB_EN-LVSG-17
EN-PP-146	0.84 cal/cm²	457mm (18in)	366mm (14in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1035	EN-LVSG-02_CB_EN-PP-146
EN-PP-147	1.73 cal/cm²	457mm (18in)	574mm (23in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1035	EN-LVSG-13_CB_EN-LVSG-13
EN-PP-151	0.56 cal/cm²	457mm (18in)	282mm (11in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM1037H	EN-DSW-086_Fuse-EN-DSW-086
EN-PP-152	5.09 cal/cm²	457mm (18in)	1129mm (44in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1035	EN-PP-169_CB_EN-PP-152
EN-PP-155	0.31 cal/cm²	457mm (18in)	194mm (8in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1034	EN-DP-09_CB_EN-PP-155
EN-PP-161	0.18 cal/cm²	457mm (18in)	139mm (5in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1035	EN-PP-147_CB_EN-PP-161
EN-PP-165	6.83 cal/cm²	457mm (18in)	1357mm (53in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1034	EN-PP-104_CB_EN-PP-165
EN-PP-168	0.74 cal/cm²	457mm (18in)	337mm (13in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1033	EN-DSW-194_Fuse_EN-DSW-194
EN-PP-169	6.36 cal/cm²	457mm (18in)	1298mm (51in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1036C	EN-DSW-087_Fuse-EN-DSW-087
EN-PP-170	0.23 cal/cm²	457mm (18in)	164mm (6in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1036C	EN-MCC-01_Fuse_EN-PP-170
EN-PP-171	0.2 cal/cm²	457mm (18in)	150mm (6in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1036C	EN-DP-05_CB_EN-PP-171
EN-PP-173	1.36 cal/cm²	457mm (18in)	495mm (19in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-0001	EN-DP-07_CB_EN-PP-173
EN-PP-174	2.02 cal/cm²	457mm (18in)	632mm (25in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-0001	EN-DP-07_CB_EN-PP-174
EN-PP-179	4.06 cal/cm²	457mm (18in)	979mm (39in)	240VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1020	EN-PP-119_CB_EN-TRAN-26
EN-PP-180	5.18 cal/cm²	457mm (18in)	1141mm (45in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1034	EN-PP-103_CB_EN-PP-180

EN-PP-181	2.45 cal/cm²	457mm (18in)	714mm (28in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1035	EN-PP-182_CB_EN-PP-181
EN-PP-182	12.59 cal/cm²	457mm (18in)	1990mm (78in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1035	EN-PP-146_CB_EN-TRAN-32
EN-PP-183	2.75 cal/cm²	457mm (18in)	768mm (30in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1034A	EN-PP-101_CB_EN-PP-183
EN-PP-184	10.79 cal/cm²	457mm (18in)	1806mm (71in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1034A	EN-DSW-268_Fuse_EN-DSW-268
EN-PP-186	0.2 cal/cm²	457mm (18in)	150mm (6in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1022	EN-DSW-045_Fuse_EN-DSW-045
EN-PP-186-MAIN	0.2 cal/cm²	457mm (18in)	150mm (6in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1022	EN-DSW-045_Fuse_EN-DSW-045
EN-PP-187	10.62 cal/cm²	457mm (18in)	1789mm (70in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1022	EN-PP-186_CB_EN-TRAN-33
EN-PP-188	0.19 cal/cm²	457mm (18in)	144mm (6in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1023T	EN-DP-09_CB_EN-PP-188
EN-PP-189	75.42 cal/cm²	457mm (18in)	6099mm (240in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1023T	EN-PP-188_CB_EN-TRAN-40
EN-PP-190	0.02 cal/cm²	457mm (18in)	32mm (1in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1036	EN-DSW-085_Fuse-EN-DSW-085
EN-PP-191	15.62 cal/cm²	457mm (18in)	2277mm (90in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1036G	EN-DP-01_CB_EN-TRAN-46
EN-PP-192	16.31 cal/cm²	457mm (18in)	2340mm (92in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1037G	EN-PP-146_CB_EN-TRAN-48
EN-PP-194	1.61 cal/cm²	457mm (18in)	549mm (22in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1035	EN-PP-139_CB_EN-PP-194
EN-PP-197	1.16 cal/cm²	457mm (18in)	447mm (18in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1035	EN-PP-151_CB_EN-PP-197
EN-PP-198	11.77 cal/cm²	457mm (18in)	1908mm (75in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1035K	EN-DSW-244_Fuse_EN-DSW-244
EN-PP-206	2.48 cal/cm²	457mm (18in)	719mm (28in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-2042A	EN-DP-03_CB_EN-PP-206
EN-PP-207	3.28 cal/cm²	457mm (18in)	857mm (34in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-2C02	EN-DP-03_CB_EN-PP-207
EN-PP-208	6.46 cal/cm²	457mm (18in)	1310mm (52in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-2C02A	EN-DP-03_CB_EN-PP-208
EN-PP-210	0.1 cal/cm²	457mm (18in)	97mm (4in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-2078	EN-DP-07_CB_EN-PP-210
EN-PP-216	0.1 cal/cm²	457mm (18in)	96mm (4in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-2079	EN-DP-07_CB_EN-PP-216
EN-PP-250	0.11 cal/cm²	457mm (18in)	103mm (4in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-2119	EN-DP-20_CB_EN-PP-250
EN-PP-251	0.11 cal/cm²	457mm (18in)	101mm (4in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-2119	EN-DP-20_CB_EN-PP-251
EN-PP-252	0.11 cal/cm²	457mm (18in)	101mm (4in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-2102	EN-DP-20_CB_EN-PP-252
EN-PP-253	0.11 cal/cm²	457mm (18in)	101mm (4in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-2102	EN-DP-20_CB_EN-PP-253
EN-PP-254	0.35 cal/cm²	457mm (18in)	210mm (8in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-2119	EN-DP-19_CB_EN-PP-254
EN-PP-255	33.22 cal/cm²	457mm (18in)	3651mm (144in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-2004C	EN-DSW-046_Fuse_EN-DSW-046
EN-PP-302	0.37 cal/cm²	457mm (18in)	218mm (9in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-3037	EN-DP-14_CB_EN-PP-302
EN-PP-303	5.14 cal/cm²	457mm (18in)	1135mm (45in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-3C01	EN-DP-15_CB_EN-PP-303
EN-PP-304	0.12 cal/cm²	457mm (18in)	107mm (4in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-3040	EN-DP-15_CB_EN-PP-304
EN-PP-305	3.49 cal/cm²	457mm (18in)	891mm (35in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-3039	EN-DP-15_CB_EN-PP-305
EN-PP-306	0.53 cal/cm²	457mm (18in)	275mm (11in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-3C01	EN-DP-18_CB_EN-PP-306
EN-PP-307	1.62 cal/cm²	457mm (18in)	551mm (22in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-3075	EN-DP-15_CB_EN-PP-307
EN-PP-308	7.03 cal/cm²	457mm (18in)	1381mm (54in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-3000	EN-DP-15_CB_EN-PP-308
EN-PP-309	0.12 cal/cm²	457mm (18in)	109mm (4in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-3029	EN-DP-15_CB_EN-PP-309
EN-PP-310	0.59 cal/cm²	457mm (18in)	292mm (11in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-3C01	EN-DP-18_CB_EN-PP-310
EN-PP-311	1.83 cal/cm²	457mm (18in)	596mm (23in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-3C01	EN-DP-18_CB_EN-PP-311
EN-PP-313	0.22 cal/cm²	457mm (18in)	156mm (6in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-3C01	EN-DP-14_CB_EN-PP-313
EN-PP-314	0.11 cal/cm²	457mm (18in)	103mm (4in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-3C01	EN-DP-14_CB_EN-PP-314
EN-PP-315	0.13 cal/cm²	457mm (18in)	112mm (4in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-3034	EN-DP-14_CB_EN-PP-315
EN-PP-316	1.47 cal/cm²	457mm (18in)	519mm (20in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-3000B	EN-DP-15_CB_EN-PP-316
EN-PP-317	5.34 cal/cm²	457mm (18in)	1163mm (46in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-3023	EN-DSW-252_NOT FUSED
EN-PP-318	4.06 cal/cm²	457mm (18in)	979mm (39in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-3023	EN-PP-317_CB_EN-PP-318
EN-PP-319	6.36 cal/cm²	457mm (18in)	1297mm (51in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-3023	EN-DP-15_CB_EN-PP-319
EN-PP-350	0.05 cal/cm²	457mm (18in)	65mm (3in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-3037	EN-DP-15_CB_EN-PP-350
EN-PP-400	1.73 cal/cm²	457mm (18in)	574mm (23in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-4032	EN-DP-18_CB_EN-PP-400
EN-PP-401	1.73 cal/cm²	457mm (18in)	574mm (23in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-4C01	EN-DP-18_CB_EN-PP-401
EN-PP-402	1.92 cal/cm²	457mm (18in)	613mm (24in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-4030	EN-DP-18_CB_EN-PP-402
EN-PP-403	22.37 cal/cm²	457mm (18in)	2850mm (112in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-4002B	EN-DP-18_CB_EN-PP-403
EN-PP-404	0.96 cal/cm²	457mm (18in)	397mm (16in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-4C01	EN-DP-18_CB_EN-PP-404
EN-PP-405	0.08 cal/cm²	457mm (18in)	81mm (3in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-4C01	EN-DP-14_CB_EN-PP-405
EN-PP-406	0.08 cal/cm²	457mm (18in)	85mm (3in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-4C01	EN-DP-14_CB_EN-PP-406
EN-PP-408	1.23 cal/cm²	457mm (18in)	465mm (18in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-4019	EN-DP-18_CB_EN-PP-408
EN-PP-409	0.89 cal/cm²	457mm (18in)	378mm (15in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-4C01	EN-DP-18_CB_EN-PP-409
EN-PP-500	0.08 cal/cm²	457mm (18in)	82mm (3in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-5003	EN-DP-18_CB_EN-PP-500
EN-SPT-01	0.98 cal/cm²	457mm (18in)	402mm (16in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard		EN-LVSG-18_CB_EN-LVSG-18
EN-SPT-02	1.11 cal/cm²	457mm (18in)	436mm (17in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard		EN-LVSG-18_CB_EN-LVSG-18
EN-TRAN-01-HV	0.24 cal/cm²	457mm (18in)	168mm (7in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-2059	EN-DSW-043_Fuse_EN-DSW-043
EN-TRAN-01-LV	34.23 cal/cm²	457mm (18in)	3720mm (146in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-2059	EN-DSW-043_Fuse_EN-DSW-043
EN-TRAN-02-HV	0.62 cal/cm²	457mm (18in)	304mm (12in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-2059	EN-LVSG-02_CB_EN-TRAN-02
EN-TRAN-02-LV	80.63 cal/cm²	457mm (18in)	6359mm (250in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-2059	EN-LVSG-02_CB_EN-TRAN-02
EN-TRAN-09-HV	0.18 cal/cm²	457mm (18in)	138mm (5in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1034	EN-DP-09_CB_EN-TRAN-09
EN-TRAN-09-LV	0.52 cal/cm²	457mm (18in)	270mm (11in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1034	EN-DP-09_CB_EN-TRAN-09
EN-TRAN-15-HV	0.11 cal/cm²	457mm (18in)	100mm (4in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1037H	EN-DSW-087_Fuse-EN-DSW-087
EN-TRAN-15-LV	0.86 cal/cm²	457mm (18in)	372mm (15in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1037H	EN-DSW-087_Fuse-EN-DSW-087
EN-TRAN-16-HV	0.57 cal/cm²	457mm (18in)	288mm (11in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-3037	EN-LVSG-02_CB_EN-TRAN-16
EN-TRAN-16-LV	105.17 cal/cm²	457mm (18in)	7509mm (296in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-3037	EN-LVSG-02_CB_EN-TRAN-16
EN-TRAN-17-HV	0.6 cal/cm²	457mm (18in)	298mm (12in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-4022	EN-LVSG-02_CB_EN-TRAN-17
EN-TRAN-17-LV	80.4 cal/cm²	457mm (18in)	6348mm (250in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-4022	EN-LVSG-02_CB_EN-TRAN-17
EN-TRAN-18-HV	0.08 cal/cm²	457mm (18in)	83mm (3in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-3005	EN-DP-14_CB_EN-TRAN-18
EN-TRAN-18-LV	27.79 cal/cm²	457mm (18in)	3265mm (129in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-3005	EN-DP-14_CB_EN-TRAN-18
EN-TRAN-22-HV	0.1 cal/cm²	457mm (18in)	99mm (4in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1037H	EN-DSW-088_Fuse-EN-DSW-088
EN-TRAN-22-LV	4.66 cal/cm²	457mm (18in)	1068mm (42in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1037H	EN-DSW-088_Fuse-EN-DSW-088
EN-TRAN-24-HV	0.03 cal/cm²	457mm (18in)	49mm (2in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1035E	EN-DSW-225_Fuse_EN-DSW-225
EN-TRAN-24-LV	0.9 cal/cm²	457mm (18in)	382mm (15in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1035E	EN-DSW-225_Fuse_EN-DSW-225

EN-TRAN-26-HV	0.02 cal/cm²	457mm (18in)	32mm (1in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1020	EN-PP-119_CB_EN-TRAN-26
EN-TRAN-26-LV	3.01 cal/cm²	457mm (18in)	813mm (32in)	240VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1020	EN-PP-119_CB_EN-TRAN-26
EN-TRAN-28	0.12 cal/cm²	457mm (18in)	110mm (4in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1035	EN-DSW-145_Fuse_EN-DSW-145
EN-TRAN-31	0.14 cal/cm²	457mm (18in)	117mm (5in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1035	EN-DSW-260_Fuse_EN-DSW-260
EN-TRAN-32-HV	0.05 cal/cm²	457mm (18in)	66mm (3in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1035	EN-PP-146_CB_EN-TRAN-32
EN-TRAN-32-LV	9.31 cal/cm²	457mm (18in)	1647mm (65in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1035	EN-PP-146_CB_EN-TRAN-32
EN-TRAN-33-HV	0.07 cal/cm²	457mm (18in)	79mm (3in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1022C	EN-PP-186_CB_EN-TRAN-33
EN-TRAN-33-LV	6.96 cal/cm²	457mm (18in)	1373mm (54in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1022C	EN-PP-186_CB_EN-TRAN-33
EN-TRAN-35	0.06 cal/cm²	457mm (18in)	68mm (3in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1035	EN-DSW-263_Fuse_EN-DSW-263
EN-TRAN-36-HV	0.12 cal/cm²	457mm (18in)	110mm (4in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1034A	EN-DSW-268_Fuse_EN-DSW-268
EN-TRAN-36-LV	6.44 cal/cm²	457mm (18in)	1308mm (51in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1034A	EN-DSW-268_Fuse_EN-DSW-268
EN-TRAN-39-HV	0.14 cal/cm²	457mm (18in)	119mm (5in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1023T	EN-PP-188_CB_EN-TRAN-39
EN-TRAN-39-LV	5.9 cal/cm²	457mm (18in)	1237mm (49in)	480VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1023T	EN-PP-188_CB_EN-TRAN-39
EN-TRAN-40-HV	0.13 cal/cm²	457mm (18in)	111mm (4in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1023T	EN-PP-188_CB_EN-TRAN-40
EN-TRAN-40-LV	34.73 cal/cm²	457mm (18in)	3754mm (148in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1023T	EN-PP-188_CB_EN-TRAN-40
EN-TRAN-41-HV	0.13 cal/cm²	457mm (18in)	114mm (4in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1019A	EN-PP-117_CB_EN-TRAN-41
EN-TRAN-41-LV	0.38 cal/cm²	457mm (18in)	222mm (9in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1019A	EN-PP-117_CB_EN-TRAN-41
EN-TRAN-46-HV	0.33 cal/cm²	457mm (18in)	202mm (8in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1036G	EN-DP-01_CB_EN-TRAN-46
EN-TRAN-46-LV	9.75 cal/cm²	457mm (18in)	1696mm (67in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1036G	EN-DP-01_CB_EN-TRAN-46
EN-TRAN-47-HV	0.35 cal/cm²	457mm (18in)	210mm (8in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1036G	EN-DP-01_CB_EN-TRAN-47
EN-TRAN-47-LV	3.91 cal/cm²	457mm (18in)	957mm (38in)	480VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1036G	EN-DP-01_CB_EN-TRAN-47
EN-TRAN-48-HV	0.08 cal/cm²	457mm (18in)	83mm (3in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1037G	EN-PP-146_CB_EN-TRAN-48
EN-TRAN-48-LV	11.31 cal/cm²	457mm (18in)	1860mm (73in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1037G	EN-PP-146_CB_EN-TRAN-48
EN-TRAN-54-HV	0.3 cal/cm²	457mm (18in)	194mm (8in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-2119	EN-DP-19_CB_EN-TRAN-54
EN-TRAN-54-LV	74.52 cal/cm²	457mm (18in)	6053mm (238in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-2119	EN-DP-19_CB_EN-TRAN-54
EN-TRAN-55-HV	0.1 cal/cm²	457mm (18in)	95mm (4in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1035	EN-DSW-255_Fuse_EN-DSW-255
EN-TRAN-55-LV	0.17 cal/cm²	457mm (18in)	136mm (5in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1035	EN-DSW-255_Fuse_EN-DSW-255
EN-TRAN-56-HV	0.04 cal/cm²	457mm (18in)	55mm (2in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1035	EN-DSW-244_Fuse_EN-DSW-244
EN-TRAN-56-LV	4.99 cal/cm²	457mm (18in)	1115mm (44in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1035	EN-DSW-244_Fuse_EN-DSW-244
EN-TRAN-57-HV	0.1 cal/cm²	457mm (18in)	98mm (4in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-2004C	EN-DSW-046_Fuse_EN-DSW-046
EN-TRAN-57-LV	22.75 cal/cm²	457mm (18in)	2881mm (113in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-2004C	EN-DSW-046_Fuse_EN-DSW-046
EN-TRAN-58-HV	0.15 cal/cm²	457mm (18in)	125mm (5in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1023T	EN-PP-188_CB_EN-TRAN-58
EN-TRAN-58-LV	0.16 cal/cm²	457mm (18in)	132mm (5in)	460VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1023T	EN-PP-188_CB_EN-TRAN-58
HP-DSW-01	0.91 cal/cm²	457mm (18in)	385mm (15in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	HP-1000	EN-LVSG-18_CB_EN-LVSG-18
HP-DSW-02	0.86 cal/cm²	457mm (18in)	372mm (15in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	HP-1000	EN-LVSG-18_CB_EN-LVSG-18
HP-DSW-04	0.9 cal/cm²	457mm (18in)	381mm (15in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	HP-1000	EN-LVSG-18_CB_EN-LVSG-18
HP-DSW-05	0.2 cal/cm²	457mm (18in)	147mm (6in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	HP-1000	EN-PP-147_CB_HP-DSW-05
HP-PANL-01	0.18 cal/cm²	457mm (18in)	138mm (5in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	HP-1000	HP-DSW-05_FuseHP-DSW-05
HP-PANL-02	0.18 cal/cm²	457mm (18in)	139mm (5in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	HP-1000	HP-DSW-01_FuseHP-DSW-01
HP-PANL-03	0.17 cal/cm²	457mm (18in)	133mm (5in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	HP-1000	HP-DSW-04_FuseHP-DSW-04
HP-SPT-01	0.92 cal/cm²	457mm (18in)	386mm (15in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	HP-1000	EN-LVSG-18_CB_EN-LVSG-18
HP-TRAN-01-HV	0.15 cal/cm²	457mm (18in)	122mm (5in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	HP-1000	HP-DSW-02_FuseHP-DSW-02
SPLITTER_DSW-044	1.45 cal/cm²	457mm (18in)	515mm (20in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-2059	EN-LVSG-02_CB_EN-DSW-044
SPLITTER-EN-DP-05	0.13 cal/cm²	457mm (18in)	116mm (5in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1037H	EN-DP-05_CB_EN-SPLITTER

Arc Flash Labels for Panels

VDP_TAG	VDP_INCIDENT	VDP_WORKING	VDP_ARCFLASH	VDP_NOMINAL	VDP_PERFORMED	VDP_Limited	VDP_Restricted	VDP_Gloves	VDP_Equipment	VDP_Location	VDP_Fed From
EN-CONT-20	0.11 cal/cm²	457mm (18in)	104mm (4in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-2075	EN-PP-217_CB_EN-CONT-20
EN-CONT-21	0.11 cal/cm²	457mm (18in)	104mm (4in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-2075	EN-PP-217_CB_EN-CONT-21
EN-CONT-22	0.11 cal/cm²	457mm (18in)	104mm (4in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-2075	EN-PP-217_CB_EN-CONT-22
EN-CONT-23	0.11 cal/cm²	457mm (18in)	103mm (4in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-2075	EN-PP-217_CB_EN-CONT-23
EN-DP-04	0.64 cal/cm²	610mm (24in)	412mm (16in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	RM-2059	EN-LVSG-02_CB_EN-DP-04
EN-DP-10	63.42 cal/cm²	610mm (24in)	7296mm (287in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	RM-2027	EN-LVSG-02_CB_EN-TRAN-10
EN-DP-11	0.52 cal/cm²	610mm (24in)	363mm (14in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	RM-2038	EN-LVSG-02_CB_EN-DP-11
EN-DP-12	1.29 cal/cm²	610mm (24in)	636mm (25in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	RM-2027	EN-DP-11_CB_EN-TRAN-14
EN-DP-16	0.14 cal/cm²	610mm (24in)	157mm (6in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	RM-1008	EN-DP-11_CB_EN-DP-16
EN-DP-17	60.95 cal/cm²	610mm (24in)	7117mm (280in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	RM-1008	EN-DP-16_CB_EN-TRAN-13
EN-DSW-068	6.28 cal/cm²	457mm (18in)	1288mm (51in)	240VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1008	EN-DP-16_CB_EN-TRAN-12
EN-DSW-069	0.23 cal/cm²	457mm (18in)	165mm (6in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1008	EN-DP-11_CB_EN-TRAN-11
EN-DSW-218	0.08 cal/cm²	457mm (18in)	84mm (3in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1038	EN-DP-04_CB_EN-DSW-218
EN-DSW-230	0.06 cal/cm²	457mm (18in)	71mm (3in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1020	EN-DP-16_CB_EN-DSW-230
EN-DSW-231	0.06 cal/cm²	457mm (18in)	71mm (3in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1020	EN-DP-16_CB_EN-DSW-231
EN-DSW-240	0.06 cal/cm²	457mm (18in)	72mm (3in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1015B	EN-DP-16_CB_EN-DSW-240
EN-DSW-272	1.61 cal/cm²	457mm (18in)	548mm (22in)	415VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1023F	EN-PP-185_CB_EN-TRAN-37
EN-DSW-285	5.91 cal/cm²	457mm (18in)	1240mm (49in)	230VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1019A	EN-PP-158_CB_EN-TRAN-42
EN-DSW-293	0.11 cal/cm²	457mm (18in)	101mm (4in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	EN-1023L	EN-PP-144_CB_EN-TRAN-44
EN-DSW-295	0.07 cal/cm²	457mm (18in)	79mm (3in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	EN-1023	EN-PP-144_CB_EN-TRAN-45
EN-DSW-318	0.15 cal/cm²	457mm (18in)	123mm (5in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	EN-1023F	EN-PP-144_CB_EN-DSW-318
EN-DSW-327	0.18 cal/cm²	457mm (18in)	139mm (5in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	EN-1023F	EN-PP-144_CB_EN-DSW-327
EN-DSW-328	0.13 cal/cm²	457mm (18in)	111mm (4in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	EN-1023F	EN-PP-144_CB_EN-DSW-328
EN-DSW-347	0.11 cal/cm²	457mm (18in)	104mm (4in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1020A	EN-DP-16_CB_EN-DSW-347
EN-DSW-348	0.11 cal/cm²	457mm (18in)	104mm (4in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1020A	EN-DP-16_CB_EN-DSW-348
EN-DSW-357	0.11 cal/cm²	457mm (18in)	104mm (4in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1020A	EN-DP-16_CB_EN-DSW-357
EN-EMG-16	3.19 cal/cm²	457mm (18in)	843mm (33in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1053A	EN-DP-12_CB_EN-EMG-16
EN-PP-106	0.02 cal/cm²	457mm (18in)	32mm (1in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1C01	EN-DP-10_CB_EN-PP-106
EN-PP-107	0.02 cal/cm²	457mm (18in)	33mm (1in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1054	EN-DP-10_CB_EN-PP-107
EN-PP-108	0.02 cal/cm²	457mm (18in)	39mm (2in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1052	EN-DP-10_CB_EN-PP-108
EN-PP-109	0.02 cal/cm²	457mm (18in)	37mm (1in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1051	EN-DP-10_CB_EN-PP-109
EN-PP-110	5.71 cal/cm²	457mm (18in)	1213mm (48in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1049	EN-DP-10_CB_EN-PP-110
EN-PP-111	2.41 cal/cm²	457mm (18in)	708mm (28in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1C01A	EN-DP-10_CB_EN-PP-111
EN-PP-112	6.16 cal/cm²	457mm (18in)	1272mm (50in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1C01A	EN-DP-10_CB_EN-PP-112
EN-PP-114	15.28 cal/cm²	457mm (18in)	2246mm (88in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1008	EN-DP-17_CB_EN-PP-114
EN-PP-127	7.6 cal/cm²	457mm (18in)	1450mm (57in)	240VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1020A	EN-DP-04_CB_EN-TRAN-27
EN-PP-132	35.19 cal/cm²	457mm (18in)	3785mm (149in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1049	EN-DP-12_CB_EN-PP-132
EN-PP-136	31.93 cal/cm²	457mm (18in)	3562mm (140in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1053A	EN-DP-12_CB_EN-PP-136
EN-PP-140	0.12 cal/cm²	457mm (18in)	110mm (4in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1023J	EN-PP-144_CB_EN-PP-140
EN-PP-141	0.2 cal/cm²	457mm (18in)	148mm (6in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1023F	EN-DP-04_CB_EN-PP-141
EN-PP-144	0.26 cal/cm²	457mm (18in)	175mm (7in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1023	EN-DP-04_CB_EN-PP-144
EN-PP-149	0.02 cal/cm²	457mm (18in)	32mm (1in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1C01	EN-DP-10_CB_EN-PP-149
EN-PP-153	1.17 cal/cm²	457mm (18in)	449mm (18in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1013	EN-DP-17_CB_EN-PP-153
EN-PP-154	1.17 cal/cm²	457mm (18in)	449mm (18in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1013	EN-DP-17_CB_EN-PP-154
EN-PP-156	0.15 cal/cm²	457mm (18in)	123mm (5in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1C01	EN-DP-11_CB_EN-PP-156
EN-PP-157	0.12 cal/cm²	457mm (18in)	109mm (4in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1C01	EN-DP-11_CB_EN-PP-157
EN-PP-158	0.08 cal/cm²	457mm (18in)	86mm (3in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1C02	EN-DP-11_CB_EN-PP-158
EN-PP-159	0.14 cal/cm²	457mm (18in)	121mm (5in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1C02	EN-DP-04_CB_EN-PP-159
EN-PP-160	0.49 cal/cm²	457mm (18in)	260mm (10in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1033	EN-DP-04_CB_EN-PP-160
EN-PP-162	0.15 cal/cm²	457mm (18in)	123mm (5in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1038	EN-DP-11_CB_EN-PP-162
EN-PP-163	0.18 cal/cm²	457mm (18in)	138mm (5in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1013	EN-DP-11_CB_EN-PP-163
EN-PP-172	11.7 cal/cm²	457mm (18in)	1900mm (75in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1040	EN-DP-17_CB_EN-PP-172
EN-PP-175	5.69 cal/cm²	457mm (18in)	1211mm (48in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1010	EN-DP-17_CB_EN-PP-175
EN-PP-176	1.09 cal/cm²	457mm (18in)	431mm (17in)	240VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1010	EN-DSW-068_Fuse_EN-DSW-068
EN-PP-177	13.11 cal/cm²	457mm (18in)	2040mm (80in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1011	EN-DP-17_CB_EN-PP-177
EN-PP-178	10.13 cal/cm²	457mm (18in)	1736mm (68in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1017	EN-DP-17_CB_EN-PP-178
EN-PP-185	8.52 cal/cm²	457mm (18in)	1559mm (61in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1023J	EN-PP-140_CB_EN-TRAN-38
EN-PP-193	0.19 cal/cm²	457mm (18in)	144mm (6in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1023F	EN-PP-144_CB_EN-PP-193
EN-PP-195	3.19 cal/cm²	457mm (18in)	842mm (33in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1000	EN-PP-114_CB_EN-PP-195

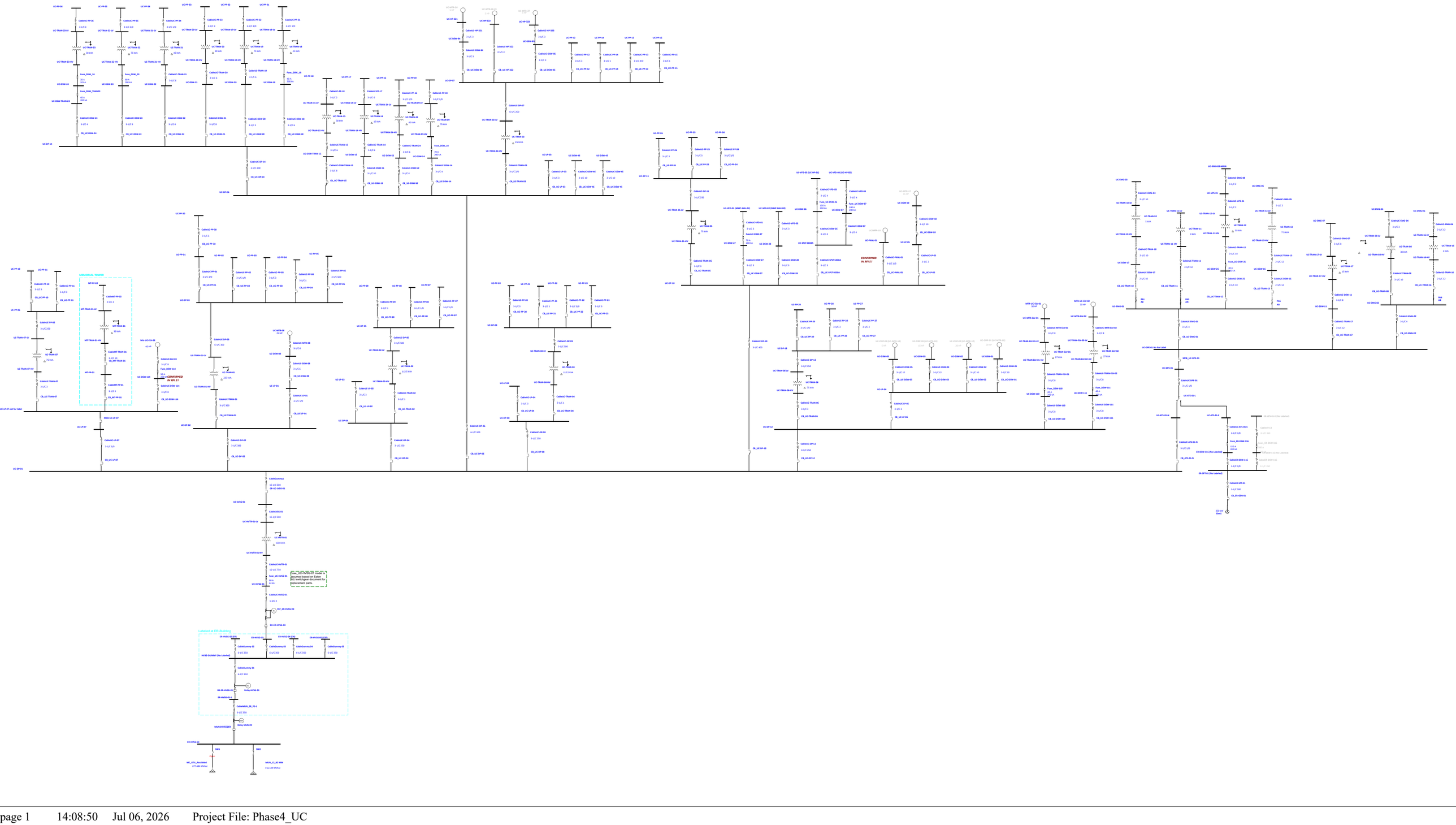
EN-PP-200	261.43 cal/cm²	457mm (18in)	13277mm (523in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-2C01	EN-DSW-069_NOT FUSED
EN-PP-201	0.09 cal/cm²	457mm (18in)	91mm (4in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-2C01	EN-PP-200_CB_EN-PP-201
EN-PP-202	3.44 cal/cm²	457mm (18in)	884mm (35in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-2C02	EN-DP-10_CB_EN-PP-202
EN-PP-203	3.94 cal/cm²	457mm (18in)	962mm (38in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-2C02	EN-DP-10_CB_EN-PP-203
EN-PP-204	1.6 cal/cm²	457mm (18in)	547mm (22in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-2006A	EN-DP-17_CB_EN-PP-204
EN-PP-205	13.11 cal/cm²	457mm (18in)	2040mm (80in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-2C01	EN-DP-17_CB_EN-PP-205
EN-PP-209	0.02 cal/cm²	457mm (18in)	35mm (1in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-2C01	EN-DP-10_CB_EN-PP-209
EN-PP-211	0.24 cal/cm²	457mm (18in)	165mm (6in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-2C02	EN-DP-11_CB_EN-PP-211
EN-PP-213	0.21 cal/cm²	457mm (18in)	152mm (6in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-2C02	EN-DP-11_CB_EN-PP-213
EN-PP-214	1.83 cal/cm²	457mm (18in)	594mm (23in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-2027	EN-DP-12_CB_EN-TRAN-14
EN-PP-215	25.32 cal/cm²	457mm (18in)	3081mm (121in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-2C01	EN-DP-04_CB_EN-TRAN-03
EN-PP-217	0.11 cal/cm²	457mm (18in)	105mm (4in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-2075	EN-DP-04_CB_EN-PP-217
EN-PP-218	2.67 cal/cm²	457mm (18in)	754mm (30in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-2004B	EN-PP-200_CB_EN-PP-218
EN-PP-219	0.08 cal/cm²	457mm (18in)	82mm (3in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-2006	EN-DP11_CB_EN-PP-219
EN-PP-220	33.54 cal/cm²	457mm (18in)	3673mm (145in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-2031A	EN-DP-12_CB_EN-PP-220
EN-TRAN-03-HV	0.38 cal/cm²	457mm (18in)	222mm (9in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-2059	EN-DP-04_CB_EN-TRAN-03
EN-TRAN-03-LV	15.34 cal/cm²	457mm (18in)	2252mm (89in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-2059	EN-DP-04_CB_EN-TRAN-03
EN-TRAN-10-HV	0.38 cal/cm²	457mm (18in)	221mm (9in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-2027	EN-LVSG-02_CB_EN-TRAN-10
EN-TRAN-10-LV	78.69 cal/cm²	457mm (18in)	6263mm (247in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-2027	EN-LVSG-02_CB_EN-TRAN-10
EN-TRAN-11-HV	0.2 cal/cm²	457mm (18in)	149mm (6in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1008	EN-DSW-069_CB_EN-TRAN-11
EN-TRAN-11-LV	129.7 cal/cm²	457mm (18in)	8563mm (337in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1008	EN-DSW-069_CB_EN-TRAN-11
EN-TRAN-12-HV	0.14 cal/cm²	457mm (18in)	120mm (5in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1008	EN-DP-16_CB_EN-TRAN-12
EN-TRAN-12-LV	4.44 cal/cm²	457mm (18in)	1037mm (41in)	240VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1008	EN-DP-16_CB_EN-TRAN-12
EN-TRAN-13-HV	0.16 cal/cm²	457mm (18in)	127mm (5in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1008	EN-DP-16_CB_EN-TRAN-13
EN-TRAN-13-LV	1.5 cal/cm²	457mm (18in)	526mm (21in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1008	EN-DP-16_CB_EN-TRAN-13
EN-TRAN-14-HV	0.14 cal/cm²	457mm (18in)	118mm (5in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-2027	EN-DP-11_CB_EN-TRAN-14
EN-TRAN-14-LV	1.19 cal/cm²	457mm (18in)	455mm (18in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-2027	EN-DP-11_CB_EN-TRAN-14
EN-TRAN-27-HV	0.95 cal/cm²	457mm (18in)	396mm (16in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1020A	EN-DP-04_CB_EN-TRAN-27
EN-TRAN-27-LV	5.55 cal/cm²	457mm (18in)	1192mm (47in)	240VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1020A	EN-DP-04_CB_EN-TRAN-27
EN-TRAN-37-HV	1.22 cal/cm²	457mm (18in)	462mm (18in)	415VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1023J	EN-PP-185_CB_EN-TRAN-37
EN-TRAN-37-LV	1.77 cal/cm²	457mm (18in)	583mm (23in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1023J	EN-PP-185_CB_EN-TRAN-37
EN-TRAN-38-HV	0.1 cal/cm²	457mm (18in)	98mm (4in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1023J	EN-PP-140_CB_EN-TRAN-38
EN-TRAN-38-LV	4.77 cal/cm²	457mm (18in)	1084mm (43in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1023J	EN-PP-140_CB_EN-TRAN-38
EN-TRAN-42-HV	0.37 cal/cm²	457mm (18in)	217mm (9in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1019A	EN-PP-158_CB_EN-TRAN-42
EN-TRAN-42-LV	4.14 cal/cm²	457mm (18in)	992mm (39in)	230VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1019A	EN-PP-158_CB_EN-TRAN-42
EN-TRAN-43-HV	0.06 cal/cm²	457mm (18in)	67mm (3in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1019B	EN-PP-157_CB_EN-TRAN-43
EN-TRAN-43-LV	21.99 cal/cm²	457mm (18in)	2820mm (111in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1019B	EN-PP-157_CB_EN-TRAN-43
EN-TRAN-44-HV	0.05 cal/cm²	457mm (18in)	66mm (3in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1023L	EN-DSW-293_Fuse_EN-DSW-293
EN-TRAN-44-LV	1.15 cal/cm²	457mm (18in)	445mm (18in)	440VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1023L	EN-DSW-293_Fuse_EN-DSW-293

Arc Flash Labels for Panels

VDP_TAG	VDP_INCIDENT	VDP_WORKING	VDP_ARCFLASH	VDP_NOMINAL	VDP_PERFORMED	VDP_Limited	VDP_Restricted	VDP_Gloves	VDP_Equipment	VDP_Location	VDP_Fed From
EN-ATS-01-E	13.27 cal/cm²	610mm (24in)	2741mm (108in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Switchgear	RM-1037H	EN-GEN-02_CB_GEN-02
EN-ATS-01-N	0.53 cal/cm²	610mm (24in)	363mm (14in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Switchgear	RM-1037H	EN-DSW-093_CB_DSW-093
EN-ATS-02-E	15.91 cal/cm²	610mm (24in)	3070mm (121in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Switchgear	RM-1037H	EN-GEN-01_CB_GEN-01
EN-ATS-02-N	1.71 cal/cm²	610mm (24in)	759mm (30in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Switchgear	RM-1037H	EN-LVSG-14_CB_EN-LVSG-14
EN-DPE-01	17.71 cal/cm²	610mm (24in)	3283mm (129in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	RM-1037H	EN-ATS-02
EN-DSW-047	0.02 cal/cm²	457mm (18in)	40mm (2in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1036C	EN-DPE-01_Fuse_DPE TO DSW-047
EN-DSW-049	0.05 cal/cm²	457mm (18in)	62mm (2in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	EN-1036C	EN-EMCC-01_FuseEN-COMP-01
EN-DSW-051	0.08 cal/cm²	457mm (18in)	86mm (3in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-3034	EN-EMG-10_CB_DSW-051
EN-DSW-089	10.48 cal/cm²	457mm (18in)	1774mm (70in)	240VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1037H	EN-DSW-90_CB_DSW-90
EN-DSW-206	2.28 cal/cm²	457mm (18in)	683mm (27in)	240VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-3005	EN-EMG-08_CB_TRAN-23
EN-DSW-207	2.28 cal/cm²	457mm (18in)	683mm (27in)	240VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-3005	EN-EMG-08_CB_TRAN-23
EN-DSW-208	2.28 cal/cm²	457mm (18in)	683mm (27in)	240VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-3005	EN-EMG-08_CB_TRAN-23
EN-DSW-235	0.15 cal/cm²	457mm (18in)	125mm (5in)	240VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1034	EN-DSW-238_Fuse_DSW-238
EN-DSW-236	0.15 cal/cm²	457mm (18in)	125mm (5in)	240VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1034	EN-DSW-238_Fuse_DSW-238
EN-DSW-237	0.15 cal/cm²	457mm (18in)	125mm (5in)	240VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1034	EN-DSW-238_Fuse_DSW-238
EN-DSW-238	10.15 cal/cm²	457mm (18in)	1739mm (68in)	240VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1034	EN-DPE-01_Fuse_TRAN-29
EN-DSW-341	0.05 cal/cm²	457mm (18in)	63mm (2in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard		EN-EMG-02_CB_DSW-341
EN-DSW-352	0.11 cal/cm²	457mm (18in)	101mm (4in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-5001	EN-EMG-08_CB_DSW-352
EN-DSW-353	0.11 cal/cm²	457mm (18in)	101mm (4in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-5001	EN-EMG-08_CB_DSW-353
EN-DSW-357-ELV	7.93 cal/cm²	457mm (18in)	1488mm (59in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-5001	EN-EMG-08_CB_DSW-357ELV
EN-DSW-64	2.42 cal/cm²	457mm (18in)	709mm (28in)	240VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1008	EN-EMG-08_CB_TRAN-25
EN-DSW-65	2.42 cal/cm²	457mm (18in)	709mm (28in)	240VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1008	EN-EMG-08_CB_TRAN-25
EN-DSW-66	2.42 cal/cm²	457mm (18in)	709mm (28in)	240VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1008	EN-EMG-08_CB_TRAN-25
EN-DSW-67	2.42 cal/cm²	457mm (18in)	709mm (28in)	240VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1008	EN-EMG-08_CB_TRAN-25
EN-DSW-90	23.5 cal/cm²	457mm (18in)	2939mm (116in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1037H	EN-ATS-02_CB_GEN-01
EN-ELV1-CONTROL	18.73 cal/cm²	457mm (18in)	2550mm (100in)	480VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-5001	EN-DSW-353_CB_DSW-353
EN-ELV2-CONTROL	2.19 cal/cm²	457mm (18in)	664mm (26in)	480VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-5001	EN-DSW-352_Fuse_DSW-352
EN-ELV3-CONTROL	1.49 cal/cm²	457mm (18in)	521mm (21in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-5001	EN-DSW-357-ELV_Fuse_DSW-357-ELV
EN-EMCC-01	0.12 cal/cm²	457mm (18in)	111mm (4in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	MCC	RM-1036C	EN-DPE-01_Fuse_EMCC-01
EN-EMG-01	4.69 cal/cm²	457mm (18in)	1071mm (42in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-2075	EN-EMG-19_CB_EMG-01
EN-EMG-02	0.05 cal/cm²	457mm (18in)	64mm (3in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-2075	EN-DPE-01_Fuse_EMG-02
EN-EMG-03	31.04 cal/cm²	457mm (18in)	3499mm (138in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1037H	EN-DSW-047_Fuse_DPE TO DSW-047
EN-EMG-04	10.32 cal/cm²	457mm (18in)	1756mm (69in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-3034	EN-EMG-05_CB_TRAN-06
EN-EMG-05	4.23 cal/cm²	457mm (18in)	1004mm (40in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-3034	EN-DPE-01_Fuse_EMG-05
EN-EMG-06	1.96 cal/cm²	457mm (18in)	618mm (24in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-3034	EN-EMG-05_CB_TRAN-07
EN-EMG-07	9.85 cal/cm²	457mm (18in)	1707mm (67in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1037H	EN-DPE-01_Fuse_TRAN-19
EN-EMG-08	6.26 cal/cm²	457mm (18in)	1283mm (51in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-3005	EN-EMG-05_Fuse_EMG-05
EN-EMG-09-MAIN	12.05 cal/cm²	457mm (18in)	1936mm (76in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-3034	EN-EMG-10_CB_DSW-051
EN-EMG-10	18.68 cal/cm²	457mm (18in)	2545mm (100in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-4024	EN-ATS-01
EN-EMG-11	14.57 cal/cm²	457mm (18in)	2179mm (86in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-4024	EN-EMG-10_CB_TRAN-53
EN-EMG-15	0.07 cal/cm²	457mm (18in)	74mm (3in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1013	EN-EMG-02_CB_EMG-15
EN-EMG-17	16.8 cal/cm²	457mm (18in)	2383mm (94in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1022	EN-EMG-15_CB_EMG-TRAN-34
EN-EMG-18	0.12 cal/cm²	457mm (18in)	109mm (4in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-2119	EN-EMG-05_CB_EMG-18
EN-EMG-19	9.98 cal/cm²	457mm (18in)	1720mm (68in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-2119	EN-EMG-18_CB_TRAN-30
EN-EMG-20	0.19 cal/cm²	457mm (18in)	145mm (6in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	EN-4024A	EN-EMG-10_CB_EN-EMG-20
EN-EMG-21	0.14 cal/cm²	457mm (18in)	121mm (5in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	EN-4024A	EN-EMG-20_CB_EN-EMG-21
EN-GEN-01	49.74 cal/cm²	610mm (24in)	6267mm (247in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Switchgear		
EN-GEN-02	29.72 cal/cm²	610mm (24in)	4540mm (179in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Switchgear		
EN-SPLITTER-DSW-238	10.15 cal/cm²	457mm (18in)	1739mm (68in)	240VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1034	EN-DSW-238_Fuse_DSW-238
EN-SPLITTER-TRAN-23	2.27 cal/cm²	457mm (18in)	681mm (27in)	240VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-3005	EN-EMG-08_CB_TRAN-23
EN-SPLITTER-TRAN-25	2.41 cal/cm²	457mm (18in)	708mm (28in)	240VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-1008	EN-EMG-08_CB_TRAN-25
EN-TRAN-04-HV	0.02 cal/cm²	457mm (18in)	35mm (1in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1036C	EN-DSW-047_Fuse_DSW-047
EN-TRAN-04-LV	20.8 cal/cm²	457mm (18in)	2723mm (107in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1036C	EN-DSW-047_Fuse_DSW-047
EN-TRAN-05-HV	0.04 cal/cm²	457mm (18in)	54mm (2in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-3034	EN-DSW-051_FuseDSW-051
EN-TRAN-05-LV	8.94 cal/cm²	457mm (18in)	1606mm (63in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-3034	EN-DSW-051_FuseDSW-051
EN-TRAN-06-HV	0.07 cal/cm²	457mm (18in)	76mm (3in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-3034	EN-EMG-05_CB_TRAN-06
EN-TRAN-06-LV	8.5 cal/cm²	457mm (18in)	1555mm (61in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-3034	EN-EMG-05_CB_TRAN-06
EN-TRAN-07-HV	0.1 cal/cm²	457mm (18in)	99mm (4in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-3034	EN-EMG-05_CB_TRAN-07
EN-TRAN-07-LV	1.4 cal/cm²	457mm (18in)	500mm (20in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-3034	EN-EMG-05_CB_TRAN-07
EN-TRAN-19-HV	0.33 cal/cm²	457mm (18in)	203mm (8in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1037H	EN-DPE-01_Fuse_TRAN-19
EN-TRAN-19-LV	7.23 cal/cm²	457mm (18in)	1404mm (55in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1037H	EN-DPE-01_Fuse_TRAN-19
EN-TRAN-20-HV	0.28 cal/cm²	457mm (18in)	184mm (7in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1037H	EN-DPE-01_Fuse_TRAN-20
EN-TRAN-20-LV	0.07 cal/cm²	457mm (18in)	79mm (3in)	240VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1037H	EN-DPE-01_Fuse_TRAN-20
EN-TRAN-21-HV	0.39 cal/cm²	457mm (18in)	225mm (9in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1037H	EN-DSW-90_CB_DSW-90
EN-TRAN-23-HV	0.09 cal/cm²	457mm (18in)	92mm (4in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-3005	EN-EMG-08_CB_TRAN-23
EN-TRAN-25-HV	0.04 cal/cm²	457mm (18in)	58mm (2in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1008	EN-EMG-08_CB_TRAN-25
EN-TRAN-29-HV	0.02 cal/cm²	457mm (18in)	31mm (1in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1034	EN-DPE-01_Fuse_TRAN-29
EN-TRAN-30-HV	0.09 cal/cm²	457mm (18in)	92mm (4in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-2119	EN-EMG-18_CB_TRAN-30
EN-TRAN-30-LV	7.23 cal/cm²	457mm (18in)	1405mm (55in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-2119	EN-EMG-18_CB_TRAN-30
EN-TRAN-34-HV	0.68 cal/cm²	457mm (18in)	317mm (12in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1022C	EN-EMG-15_CB_EMG-TRAN-34

EN-TRAN-34-LV	10.88 cal/cm²	457mm (18in)	1815mm (71in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-1022C	EN-EMG-15_CB_EMG-TRAN-34
EN-TRAN-51-HV	0.14 cal/cm²	457mm (18in)	119mm (5in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-5001	EN-DSW-353_Fuse_DSW-353
EN-TRAN-51-LV	12.82 cal/cm²	457mm (18in)	2012mm (79in)	480VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-5001	EN-DSW-353_Fuse_DSW-353
EN-TRAN-52-HV	0.03 cal/cm²	457mm (18in)	48mm (2in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-5001	EN-DSW-352_Fuse_DSW-352
EN-TRAN-52-LV	1.41 cal/cm²	457mm (18in)	503mm (20in)	480VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-5001	EN-DSW-352_Fuse_DSW-352
EN-TRAN-53-HV	0.21 cal/cm²	457mm (18in)	153mm (6in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-4024M	EN-EMG-10_CB_TRAN-53
EN-TRAN-53-LV	9.71 cal/cm²	457mm (18in)	1691mm (67in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	RM-4024M	EN-EMG-10_CB_TRAN-53
EN-UPS-01	11.99 cal/cm²	457mm (18in)	1930mm (76in)	208VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-3034	EN-DSW-051_Fuse_DSW-051
EN-UPS-03	0.21 cal/cm131	457mm (18in)	152mm (6in)	600VAC	Wednesday, June 24, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	RM-4024	EN-EMG-10_CB_EN-EMG-20

One-Line Diagram - UC | Star - Protection & Coordination | SM



Arc Flash Labels for Panels

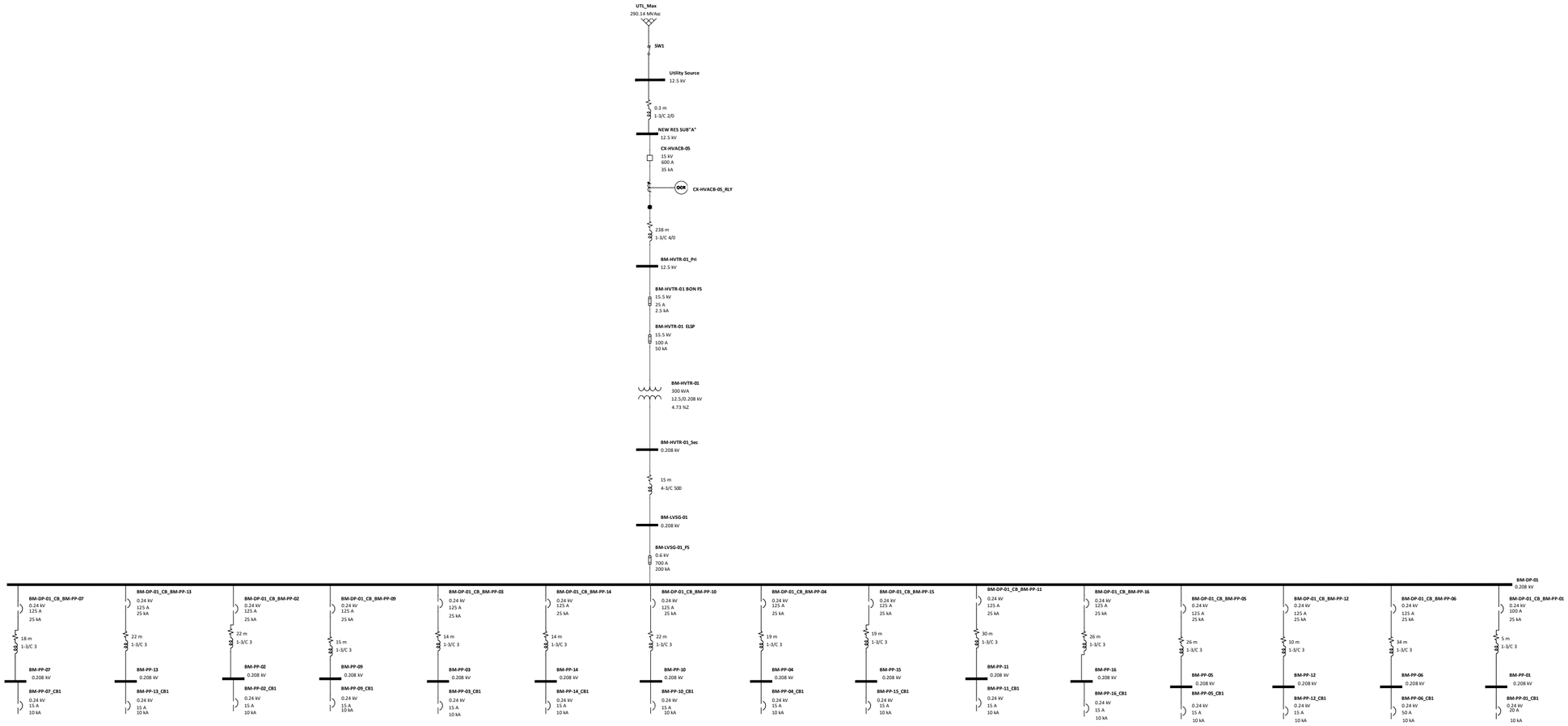
VDP_TAG	VDP_INCIDENT	VDP_WORKING	VDP_ARCFLASH	VDP_NOMINAL	VDP_PERFORMED	VDP_Limited	VDP_Restricted	VDP_Gloves	VDP_Equipment	VDP_Location	VDP_Fed From
MT-PP-01	0.1 cal/cm²	457mm (18in)	88mm (3in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	MT-2000	UC-LP-07_CB_MT-PP-01
MT-PP-02	7 cal/cm²	457mm (18in)	1382mm (54in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	MT-2000	MT-PP-01_CB_MT-TRAN-01
MT-TRAN-01-HV	0.1 cal/cm²	457mm (18in)	78mm (3in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	MT-2000	MT-PP-01_CB_MT-TRAN-01
MT-TRAN-01-LV	5 cal/cm²	457mm (18in)	1121mm (44in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	MT-2000	MT-PP-01_CB_MT-TRAN-01
UC-ATS-01-E	11.8 cal/cm²	610mm (24in)	2551mm (100in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	UC-1014	ER-DSW-116_Fuse_ER-DSW-116
UC-ATS-01-N	0.3 cal/cm²	610mm (24in)	258mm (10in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	UC-1014	UC-DP-01_CB_ATS-01-N
UC-DP-01	1.5 cal/cm²	610mm (24in)	704mm (28in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	UC-1014	UC-LVSG-01_CB-UC-LVSG-01
UC-DP-02	0.2 cal/cm²	610mm (24in)	212mm (8in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	UC-1010A	UC-DP-01_CB_UC-DP-02
UC-DP-03	205.8 cal/cm²	610mm (24in)	15238mm (600in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	UC-1010A	UC-DP-02_CB_UC-TRAN-01
UC-DP-04	0.2 cal/cm²	610mm (24in)	195mm (8in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	UC-2006F	UC-DP-01_CB_UC-DP-04
UC-DP-05	19.7 cal/cm²	610mm (24in)	3515mm (138in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	UC-2006F	UC-DP-04_CB_UC-TRAN-02
UC-DP-06	0.5 cal/cm²	610mm (24in)	344mm (14in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	UC-3007A	UC-DP-01_CB_UC-DP-06
UC-DP-07	62 cal/cm²	610mm (24in)	7194mm (283in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	UC-3007A	UC-DP-06_CB_UC-TRAN-03
UC-DP-08	0.2 cal/cm²	610mm (24in)	198mm (8in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	UC-4022	UC-DP-01_CB_UC-DP-08
UC-DP-09	29.6 cal/cm²	610mm (24in)	4527mm (178in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	UC-4022	UC-DP-08_CB_UC-TRAN-04
UC-DP-10	0.2 cal/cm²	610mm (24in)	210mm (8in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	UC-5040	UC-DP-01_CB_UC-DP-10
UC-DP-11	15.6 cal/cm²	610mm (24in)	3032mm (119in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	UC-5040	UC-DP-10_CB_UC-TRAN-05
UC-DP-12	0.2 cal/cm²	610mm (24in)	190mm (7in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	UC-6025	UC-DP-01_CB_UC-DP-12
UC-DP-13	16.6 cal/cm²	610mm (24in)	3150mm (124in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	UC-6025	UC-DP-12_CB_UC-TRAN-06
UC-DP-14	0.2 cal/cm²	610mm (24in)	191mm (8in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	UC-3012D	UC-DP-06_CB_UC-DP-14
UC-DPE-01	0.2 cal/cm²	610mm (24in)	179mm (7in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Switchboard	UC-1014	UC-ATS-01
UC-DSW-01	0.1 cal/cm²	457mm (18in)	92mm (4in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-6025A	UC-LP-06_CB_UC-DSW-01
UC-DSW-02	0.1 cal/cm²	457mm (18in)	86mm (3in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-6025A	UC-LP-06_CB_UC-DSW-02
UC-DSW-03	0 cal/cm²	457mm (18in)	56mm (2in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-6025A	UC-LP-06_CB_UC-DSW-03
UC-DSW-05	0 cal/cm²	457mm (18in)	60mm (2in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-6025A	UC-LP-06_CB_UC-DSW-05
UC-DSW-07	0.3 cal/cm²	457mm (18in)	178mm (7in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-5030A	UC-DP-10_CB_UC-SPLT-5030A
UC-DSW-08	0.2 cal/cm²	457mm (18in)	150mm (6in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-1010B	UC-LP-01_CB_UC-DSW-08
UC-DSW-10	0.1 cal/cm²	457mm (18in)	88mm (3in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-5030A	UC-LP-05_CB_UC-DSW-10
UC-DSW-11	0.2 cal/cm²	457mm (18in)	168mm (7in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-1010	UC-DPE-01_CB_UC-TRAN-17
UC-DSW-110	0.2 cal/cm²	457mm (18in)	140mm (6in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-7000	UC-DP-12_CB_UC-DSW-110
UC-DSW-111	0.2 cal/cm²	457mm (18in)	140mm (6in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-7000	UC-DP-12_CB_UC-DSW-111
UC-DSW-114	0.1 cal/cm²	457mm (18in)	102mm (4in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-1E01	UC-LP-07_CB_UC-DSW-114
UC-DSW-14	0.2 cal/cm²	457mm (18in)	124mm (5in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-3017	UC-DP-06_CB_UC-DSW-14
UC-DSW-15	0.1 cal/cm²	457mm (18in)	75mm (3in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-3018	UC-DP-06_CB_UC-DSW-15
UC-DSW-16	0.2 cal/cm²	457mm (18in)	159mm (6in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-5C02	UC-EMG-01_CB_UC-TRAN-13
UC-DSW-17	0.2 cal/cm²	457mm (18in)	151mm (6in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-4025	UC-EMG-01_CB_UC-TRAN-10
UC-DSW-18	0.3 cal/cm²	457mm (18in)	172mm (7in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-3012B	UC-DP-14_CB_UC-DSW-18
UC-DSW-20	0.2 cal/cm²	457mm (18in)	152mm (6in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-3012C	UC-DP-14_CB_UC-DSW-20
UC-DSW-21	0.2 cal/cm²	457mm (18in)	136mm (5in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-3012K	UC-DP-14_CB_UC-DSW-21
UC-DSW-22	0.1 cal/cm²	457mm (18in)	119mm (5in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-3012E	UC-DP-14_CB_UC-DSW-22
UC-DSW-23	0.2 cal/cm²	457mm (18in)	130mm (5in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-3012F	UC-DP-14_CB_UC-DSW-23
UC-DSW-24	0.1 cal/cm²	457mm (18in)	119mm (5in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-3012H	UC-DSW-TRAN-23_Fuse_DSW_TRAN23
UC-DSW-25	0.6 cal/cm²	457mm (18in)	293mm (12in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-5038	UC-EMG-01_CB_UC-TRAN-12
UC-DSW-26	0.3 cal/cm²	457mm (18in)	178mm (7in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-5030A	UC-DP-10_CB_UC-SPLT-5030A
UC-DSW-27	0.3 cal/cm²	457mm (18in)	179mm (7in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-5030A	UC-DP-10_CB_UC-DSW-27
UC-DSW-28	0.2 cal/cm²	457mm (18in)	169mm (7in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-5030A	UC-DP-10_CB_UC-DSW-28
UC-DSW-45	0.1 cal/cm²	457mm (18in)	99mm (4in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-3003	UC-DP-06_CB_UC-DSW-45
UC-DSW-46	0.1 cal/cm²	457mm (18in)	99mm (4in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-3003	UC-DP-06_CB_UC-DSW-46
UC-DSW-52	0.2 cal/cm²	457mm (18in)	126mm (5in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-3015	UC-DP-06_CB_UC-DSW-52
UC-DSW-84	153 cal/cm²	457mm (18in)	9495mm (374in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-3 ROOF	UC-DP-07_CB_UC-DSW-84
UC-DSW-85	153 cal/cm²	457mm (18in)	9495mm (374in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-3 ROOF	UC-DP-07_CB_UC-DSW-85
UC-DSW-TRAN-15	0.1 cal/cm²	457mm (18in)	92mm (4in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-3019	UC-DP-06_CB_UC-TRAN-15
UC-DSW-TRAN-23	0.1 cal/cm²	457mm (18in)	119mm (5in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-3012H	UC-DP-14_CB_UC-DSW-24
UC-EMG-01	1217.6 cal/cm²	457mm (18in)	34770mm (1369in	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-5040	UC-DPE-01_CB_UC-EMG-01
UC-EMG-02	1258.6 cal/cm²	457mm (18in)	35500mm (1398in	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-1017A	UC-DPE-01_CB_UC-EMG-02
UC-EMG-03	2.8 cal/cm²	457mm (18in)	770mm (30in)	240VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-4025	UC-DSW-17_No Fuse
UC-EMG-04	2152 cal/cm²	457mm (18in)	49450mm (1947in	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-2009M	UC-EMG-02_CB_UC-TRAN-08
UC-EMG-05	2.2 cal/cm²	457mm (18in)	663mm (26in)	240VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-5C02	UC-DSW-16_No Fuse
UC-EMG-06	4.6 cal/cm²	457mm (18in)	1058mm (42in)	240VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-1017A	UC-EMG-02_CB_UC-TRAN-16
UC-EMG-07	31.8 cal/cm²	457mm (18in)	3550mm (140in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-1010	UC-DPE-01_CB_UC-TRAN-17
UC-EMG-08-MAIN	2114.6 cal/cm²	457mm (18in)	48920mm (1926in	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-5038	UC-DSW-25_Fuse_DSW_25

UC-HP-321	160.6 cal/cm²	457mm (18in)	9788mm (385in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-3 ROOF	UC-DSW-84_No Fuse
UC-HP-322	11.9 cal/cm²	457mm (18in)	1920mm (76in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-3 ROOF	UC-DP-07_CB_UC-HP-322
UC-HP-323	160.6 cal/cm²	457mm (18in)	9788mm (385in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-3 ROOF	UC-DSW-85_No Fuse
UC-HVSG-01	1 cal/cm²	914mm (36in)	813mm (32in)	12470VAC	Friday, July 3, 2026	1.5m (60in)	658mm (26in)	2	Switchgear	UC-1014	ER-HVSG-03
UC-HVTR-01-HV	0.1 cal/cm²	914mm (36in)	230mm (9in)	12470VAC	Friday, July 3, 2026	1.5m (60in)	658mm (26in)	2	Cable Bus	UC-1014	UC-HVSG-01_Fuse_UC-HVSG-01
UC-HVTR-01-LV	5.6 cal/cm²	457mm (18in)	1198mm (47in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	UC-1014	UC-HVSG-01_Fuse_UC-HVSG-01
UC-LP-01	0.3 cal/cm²	457mm (18in)	198mm (8in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-1010A	UC-DP-02_CB_UC-LP-01
UC-LP-02	0.3 cal/cm²	457mm (18in)	173mm (7in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-2006F	UC-DP-04_CB_UC-LP-02
UC-LP-03	0.4 cal/cm²	457mm (18in)	239mm (9in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-3007A	UC-DP-06_CB_UC-LP-03
UC-LP-04	0.3 cal/cm²	457mm (18in)	188mm (7in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-4022	UC-DP-08_CB_UC-LP-04
UC-LP-05	0.3 cal/cm²	457mm (18in)	194mm (8in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-5040	UC-DP-10_CB_UC-LP-05
UC-LP-06	0.3 cal/cm²	457mm (18in)	175mm (7in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-6025	UC-DP-12_CB_UC-LP-06
UC-LP-07	0.3 cal/cm²	457mm (18in)	200mm (8in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-1017A	UC-DP-01_CB_UC-LP-07
UC-LVSG-01	6.2 cal/cm²	610mm (24in)	1709mm (67in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Switchgear	UC-1014	UC-HVTR-01_Fuse_UC-HVSG-01
UC-PANL-01	0.3 cal/cm²	457mm (18in)	185mm (7in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-5030A	UC-DP-10_CB_UC-PANL-01
UC-PP-01	19.3 cal/cm²	457mm (18in)	2602mm (102in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-1005	UC-DP-03_CB_UC-PP-01
UC-PP-02	0.1 cal/cm²	457mm (18in)	117mm (5in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-1010A	UC-DP-03_CB_UC-PP-02
UC-PP-03	8.6 cal/cm²	457mm (18in)	1570mm (62in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-1004A	UC-DP-03_CB_UC-PP-03
UC-PP-04	7.9 cal/cm²	457mm (18in)	1486mm (59in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-1004A	UC-DP-03_CB_UC-PP-04
UC-PP-05	95.6 cal/cm²	457mm (18in)	7075mm (279in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-1010A	UC-DP-03_CB_UC-PP-05
UC-PP-06	19.9 cal/cm²	457mm (18in)	2646mm (104in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-1017A	UC-LP-07_CB_UC-TRAN-07
UC-PP-07	0.1 cal/cm²	457mm (18in)	96mm (4in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-2006F	UC-DP-05_CB_UC-PP-07
UC-PP-08	0.1 cal/cm²	457mm (18in)	96mm (4in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-2006F	UC-DP-05_CB_UC-PP-08
UC-PP-09	0.1 cal/cm²	457mm (18in)	98mm (4in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-2006F	UC-DP-05_CB_UC-PP-09
UC-PP-10	6.4 cal/cm²	457mm (18in)	1306mm (51in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-2009M	UC-PP-06_CB_UC-PP-10
UC-PP-11	6.4 cal/cm²	457mm (18in)	1306mm (51in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-2009M	UC-PP-06_CB_UC-PP-11
UC-PP-12	0.1 cal/cm²	457mm (18in)	108mm (4in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-3007A	UC-DP-07_CB_UC-PP-12
UC-PP-13	0.1 cal/cm²	457mm (18in)	111mm (4in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-3007A	UC-DP-07_CB_UC-PP-13
UC-PP-14	51.1 cal/cm²	457mm (18in)	4779mm (188in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-3012J	UC-DP-07_CB_UC-PP-14
UC-PP-15	4.1 cal/cm²	457mm (18in)	978mm (39in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-3008A	UC-DP-07_CB_UC-PP-15
UC-PP-16	24.3 cal/cm²	457mm (18in)	2999mm (118in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-3013	UC-DSW-52_No Fuse
UC-PP-17	18.3 cal/cm²	457mm (18in)	2512mm (99in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-3018	UC-DSW-15_No Fuse
UC-PP-18	11 cal/cm²	457mm (18in)	1823mm (72in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-3019	UC-DSW-TRAN-15_No Fuse
UC-PP-19	0.2 cal/cm²	457mm (18in)	161mm (6in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-3017	UC-DSW-14_Fuse_DSW_14
UC-PP-20	0.1 cal/cm²	457mm (18in)	95mm (4in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-4022	UC-DP-09_CB_UC-PP-20
UC-PP-21	0.1 cal/cm²	457mm (18in)	95mm (4in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-4022	UC-DP-09_CB_UC-PP-21
UC-PP-22	22.2 cal/cm²	457mm (18in)	2839mm (112in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-4022	UC-DP-09_CB_UC-PP-22
UC-PP-23	0.1 cal/cm²	457mm (18in)	93mm (4in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-4022	UC-DP-09_CB_UC-PP-23
UC-PP-24	22.4 cal/cm²	457mm (18in)	2854mm (112in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-5040	UC-DP-11_CB_UC-PP-24
UC-PP-25	0.1 cal/cm²	457mm (18in)	92mm (4in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-5040	UC-DP-11_CB_UC-PP-25
UC-PP-26	0.1 cal/cm²	457mm (18in)	90mm (4in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-5040	UC-DP-11_CB_UC-PP-26
UC-PP-27	0.1 cal/cm²	457mm (18in)	91mm (4in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-6025	UC-DP-13_CB_UC-PP-27
UC-PP-28	0.1 cal/cm²	457mm (18in)	91mm (4in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-6025	UC-DP-13_CB_UC-PP-28
UC-PP-29	0.1 cal/cm²	457mm (18in)	110mm (4in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-6025	UC-DP-13_CB_UC-PP-29
UC-PP-30	0 cal/cm²	457mm (18in)	55mm (2in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-1005	UC-PP-01_CB_UC-PP-30
UC-PP-31	0.1 cal/cm²	457mm (18in)	123mm (5in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-3012B	UC-DSW-18_Fuse_DSW_18
UC-PP-32	78.8 cal/cm²	457mm (18in)	6269mm (247in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-3012C	UC-DSW-20_No Fuse
UC-PP-33	11.1 cal/cm²	457mm (18in)	1843mm (73in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-3012K	UC-DSW-21_No Fuse
UC-PP-34	31.1 cal/cm²	457mm (18in)	3501mm (138in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-3012E	UC-DSW-22_No Fuse
UC-PP-35	0.4 cal/cm²	457mm (18in)	236mm (9in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-3012F	UC-DSW-23_Fuse_DSW_23
UC-PP-36	0.6 cal/cm²	457mm (18in)	300mm (12in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-3012H	UC-DSW-24_Fuse_DSW_24
UC-SPLT-5030A	0.3 cal/cm²	457mm (18in)	179mm (7in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-5030A	UC-DP-10_CB_CB_UC-SPLT-5030A
UC-TRAN-01-HV	0.3 cal/cm²	457mm (18in)	182mm (7in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	UC-1010A	UC-DP-02_CB_UC-TRAN-01
UC-TRAN-01-LV	185.9 cal/cm²	457mm (18in)	10726mm (422in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	UC-1010A	UC-DP-02_CB_UC-TRAN-01
UC-TRAN-02-HV	0.2 cal/cm²	457mm (18in)	164mm (6in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	UC-2006F	UC-DP-04_CB_UC-TRAN-02
UC-TRAN-02-LV	16.6 cal/cm²	457mm (18in)	2368mm (93in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	UC-2006F	UC-DP-04_CB_UC-TRAN-02
UC-TRAN-03-HV	0.4 cal/cm²	457mm (18in)	244mm (10in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	UC-3007A	UC-DP-06_CB_UC-TRAN-03
UC-TRAN-03-LV	61 cal/cm²	457mm (18in)	5341mm (210in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	UC-3007A	UC-DP-06_CB_UC-TRAN-03
UC-TRAN-04-HV	0.2 cal/cm²	457mm (18in)	166mm (7in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	UC-4022	UC-DP-08_CB_UC-TRAN-04
UC-TRAN-04-LV	24.6 cal/cm²	457mm (18in)	3024mm (119in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	UC-4022	UC-DP-08_CB_UC-TRAN-04
UC-TRAN-05-HV	0.3 cal/cm²	457mm (18in)	175mm (7in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	UC-5040	UC-DP-10_CB_UC-TRAN-05
UC-TRAN-05-LV	13.3 cal/cm²	457mm (18in)	2058mm (81in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	UC-5040	UC-DP-10_CB_UC-TRAN-05
UC-TRAN-06-HV	0.2 cal/cm²	457mm (18in)	160mm (6in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	UC-6025	UC-DP-12_CB_UC-TRAN-06
UC-TRAN-06-LV	13.6 cal/cm²	457mm (18in)	2084mm (82in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	UC-6025	UC-DP-12_CB_UC-TRAN-06
UC-TRAN-07-HV	0.2 cal/cm²	457mm (18in)	128mm (5in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	UC-1017A	UC-LP-07_CB_UC-TRAN-07

UC-TRAN-07-LV	13.5 cal/cm²	457mm (18in)	2078mm (82in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	UC-1017A	UC-LP-07_CB_UC-TRAN-07
UC-TRAN-08-HV	0.5 cal/cm²	457mm (18in)	256mm (10in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	UC-1017A	UC-EMG-02_CB_UC-TRAN-08
UC-TRAN-08-LV	879.9 cal/cm²	457mm (18in)	28375mm (1117in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	UC-1017A	UC-EMG-02_CB_UC-TRAN-08
UC-TRAN-09-HV	0.1 cal/cm²	457mm (18in)	88mm (3in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	UC-3017	UC-DSW-14_Fuse_DSW_14
UC-TRAN-09-LV	0.1 cal/cm²	457mm (18in)	100mm (4in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	UC-3017	UC-DSW-14_Fuse_DSW_14
UC-TRAN-10-HV	0.2 cal/cm²	457mm (18in)	129mm (5in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	UC-4025	UC-DSW-17_No Fuse
UC-TRAN-10-LV	1.8 cal/cm²	457mm (18in)	587mm (23in)	240VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	UC-4025	UC-DSW-17_No Fuse
UC-TRAN-11-HV	0.2 cal/cm²	457mm (18in)	132mm (5in)	347VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	UC-5040	UC-EMG-01_CB_UC-TRAN-11
UC-TRAN-11-LV	1.6 cal/cm²	457mm (18in)	543mm (21in)	240VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	UC-5040	UC-EMG-01_CB_UC-TRAN-11
UC-TRAN-12-HV	0.1 cal/cm²	457mm (18in)	72mm (3in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	UC-5038	UC-DSW-25_Fuse_DSW_25
UC-TRAN-12-LV	1637.6 cal/cm²	457mm (18in)	41850mm (1648in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	UC-5038	UC-DSW-25_Fuse_DSW_25
UC-TRAN-13-HV	0.2 cal/cm²	457mm (18in)	136mm (5in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	UC-5C02	UC-DSW-16_No Fuse
UC-TRAN-13-LV	1.5 cal/cm²	457mm (18in)	534mm (21in)	240VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	UC-5C02	UC-DSW-16_No Fuse
UC-TRAN-14-HV	0.1 cal/cm²	457mm (18in)	66mm (3in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	UC-3018	UC-DSW-15_No Fuse
UC-TRAN-14-LV	12.4 cal/cm²	457mm (18in)	1974mm (78in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	UC-3018	UC-DSW-15_No Fuse
UC-TRAN-15-HV	0.1 cal/cm²	457mm (18in)	83mm (3in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	UC-3019	UC-DSW-TRAN-15_No Fuse
UC-TRAN-15-LV	7.5 cal/cm²	457mm (18in)	1433mm (56in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	UC-3019	UC-DSW-TRAN-15_No Fuse
UC-TRAN-16-HV	0.2 cal/cm²	457mm (18in)	127mm (5in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	UC-1017A	UC-EMG-02_CB_UC-TRAN-16
UC-TRAN-16-LV	3.1 cal/cm²	457mm (18in)	821mm (32in)	240VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	UC-1017A	UC-EMG-02_CB_UC-TRAN-16
UC-TRAN-17-HV	0.2 cal/cm²	457mm (18in)	143mm (6in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	UC-1010	UC-DSW-11_CB_UC-TRAN-17
UC-TRAN-17-LV	17.7 cal/cm²	457mm (18in)	2463mm (97in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	UC-1010	UC-DSW-11_CB_UC-TRAN-17
UC-TRAN-18-HV	0.2 cal/cm²	457mm (18in)	146mm (6in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	UC-3012B	UC-DSW-18_Fuse_DSW_18
UC-TRAN-18-LV	0.1 cal/cm²	457mm (18in)	84mm (3in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	UC-3012B	UC-DSW-18_Fuse_DSW_18
UC-TRAN-19-HV	0.2 cal/cm²	457mm (18in)	135mm (5in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	UC-3012C	UC-DSW-20_No Fuse
UC-TRAN-19-LV	47.4 cal/cm²	457mm (18in)	4561mm (180in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	UC-3012C	UC-DSW-20_No Fuse
UC-TRAN-20-HV	0.1 cal/cm²	457mm (18in)	120mm (5in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	UC-3012K	UC-DSW-21_No Fuse
UC-TRAN-20-LV	8.1 cal/cm²	457mm (18in)	1510mm (59in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	UC-3012K	UC-DSW-21_No Fuse
UC-TRAN-21-HV	0.1 cal/cm²	457mm (18in)	105mm (4in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	UC-3012E	UC-DSW-22_No Fuse
UC-TRAN-21-LV	20.5 cal/cm²	457mm (18in)	2702mm (106in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	UC-3012E	UC-DSW-22_No Fuse
UC-TRAN-22-HV	0.1 cal/cm²	457mm (18in)	96mm (4in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	UC-3012F	UC-DSW-23_Fuse_DSW_23
UC-TRAN-22-LV	0.2 cal/cm²	457mm (18in)	132mm (5in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	UC-3012F	UC-DSW-23_Fuse_DSW_23
UC-TRAN-23-HV	0.1 cal/cm²	457mm (18in)	84mm (3in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	UC-3012H	UC-DSW-24_Fuse_DSW_24
UC-TRAN-23-LV	0.3 cal/cm²	457mm (18in)	195mm (8in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	UC-3012H	UC-DSW-24_Fuse_DSW_24
UC-TRAN-24-HV	0.1 cal/cm²	457mm (18in)	113mm (4in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	UC-3015	UC-DSW-52_No Fuse
UC-TRAN-24-LV	15.9 cal/cm²	457mm (18in)	2299mm (91in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	UC-3015	UC-DSW-52_No Fuse
UC-TRAN-ELV-01-HV	0.1 cal/cm²	457mm (18in)	82mm (3in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	UC-7000	UC-DSW-110_Fuse_DSW-110
UC-TRAN-ELV-01-LV	6.6 cal/cm²	457mm (18in)	1330mm (52in)	480VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	UC-7000	UC-DSW-110_Fuse_DSW-110
UC-TRAN-ELV-02-HV	0.1 cal/cm²	457mm (18in)	78mm (3in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	UC-7000	UC-DSW-111_Fuse_DSW-111
UC-TRAN-ELV-02-LV	6.7 cal/cm²	457mm (18in)	1336mm (53in)	480VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Cable Bus	UC-7000	UC-DSW-111_Fuse_DSW-111
UC-UPS-01	2116.4 cal/cm²	457mm (18in)	48950mm (1927in)	208VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-5038	UC-DSW-25_Fuse_DSW_25
UC-VFD-01 (60HP AHU-	0.2 cal/cm²	457mm (18in)	159mm (6in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-5030A	UC-DSW-27_FuseUC-DSW-27
UC-VFD-02 (50HP AHU-	0.2 cal/cm²	457mm (18in)	168mm (7in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-5030A	UC-DSW-28_No Fuse
UC-VFD-03 (UC-HP-01)	0.2 cal/cm²	457mm (18in)	153mm (6in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-5030A	UC-DSW-26_Fuse_UC-DSW-26
UC-VFD-04 (UC-HP-02)	0.2 cal/cm²	457mm (18in)	150mm (6in)	600VAC	Friday, July 3, 2026	1.1m (42in)	305mm (12in)	0	Panelboard	UC-5030A	UC-DSW-07_Fuse_UC-DSW-07

Arc Flash Report - IEEE 1584 Calculations
Worst Case Based on All Scenarios

Bus Name	Equipment Type (Bus Gap (mm))	Upstream Protective Device Clearing Fault	Bolted Fault Current @ Bus	Bolted Fault Current Through Prot. Device	Arcing Fault Current @ Bus	Arcing Fault Current Through Prot. Device	Clearing Time (ms)	Arc Flash Hazard Analysis Results FPB (mm)	WD (mm)	IE (cal/cm²)
12,500 Volt Busses										
BM-HVTR-01_Pri	Cable Bus (153)	CX-HVACB-08	12,731	12,731	11,444	11,444	295	3,099	914	9.15
208 Volt Busses										
BM-DP-01	Switchboard (32)	BM-HVTR-01 BON FS	16,185	269	6,550	109	2,000	3,176	610	34.26
BM-HVTR-01_Sec	Cable Bus (25)	BM-HVTR-01 BON FS	17,213	286	7,411	123	2,000	3,200	610	34.62
BM-LVSG-01	Switchboard (32)	BM-HVTR-01 BON FS	16,185	269	6,550	109	2,000	3,176	610	34.26
BM-PP-01	Panelboard (25)	BM-DP-01_CB_BM-PP-01	12,079	12,079	5,152	5,152	23	305	457	0.53
BM-PP-02	Panelboard (25)	BM-DP-01_CB_BM-PP-02	5,410	5,410	2,211	2,211	23	204	457	0.22
BM-PP-03	Panelboard (25)	BM-DP-01_CB_BM-PP-03	7,445	7,445	3,092	3,092	23	229	457	0.32
BM-PP-04	Panelboard (25)	BM-DP-01_CB_BM-PP-04	6,037	6,037	2,480	2,480	23	204	457	0.25
BM-PP-05	Panelboard (25)	BM-DP-01_CB_BM-PP-05	4,745	4,745	1,929	1,929	24	177	457	0.20
BM-PP-06	Panelboard (25)	BM-DP-01_CB_BM-PP-06	3,800	3,800	1,292	1,292	2,000	1,347	457	10.89
BM-PP-07	Panelboard (25)	BM-DP-01_CB_BM-PP-07	6,277	6,277	2,584	2,584	23	204	457	0.26
BM-PP-09	Panelboard (25)	BM-DP-01_CB_BM-PP-09	7,117	7,117	2,949	2,949	23	229	457	0.30
BM-PP-10	Panelboard (25)	BM-DP-01_CB_BM-PP-10	5,410	5,410	2,211	2,211	23	204	457	0.22
BM-PP-11	Panelboard (25)	BM-DP-01_CB_BM-PP-11	4,222	4,222	1,440	1,440	31	177	457	0.19
BM-PP-12	Panelboard (25)	BM-DP-01_CB_BM-PP-12	9,068	9,068	3,809	3,809	23	253	457	0.39
BM-PP-13	Panelboard (25)	BM-DP-01_CB_BM-PP-13	5,410	5,410	2,211	2,211	23	204	457	0.22
BM-PP-14	Panelboard (25)	BM-DP-01_CB_BM-PP-14	7,445	7,445	3,092	3,092	23	229	457	0.32
BM-PP-15	Panelboard (25)	BM-DP-01_CB_BM-PP-15	6,037	6,037	2,480	2,480	23	204	457	0.25
BM-PP-16	Panelboard (25)	BM-DP-01_CB_BM-PP-16	4,745	4,745	1,929	1,929	24	177	457	0.19



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1	ISSUED FOR FINAL	A.T.	A.Z.	2023.02.16
0		A.T.	A.Z.	2022.11.18

No.	Issued	By	Appd	YYYY.MM.DD
A	ISSUED WITH REPORT	A.T.	A.Z.	2023.02.10

Re Name: MUN_BALTIMORE	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD
	A.T.		A.Z.	2022.11.18

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MEMORIAL UNIVERISTY OF NEWFOUNDLAND

SHORT CIRCUIT, COORDINATION, DEVICE EVALUATION, & ARC FLASH

ST. JOHN'S, NL

Title

BURTON'S POND APARTMENTS - BALTIMORE
POWER SYSTEM MODEL

Project No. 133411869

Scale NONE

Revision 0

Sheet 2 of 2

Drawing No. **G1**

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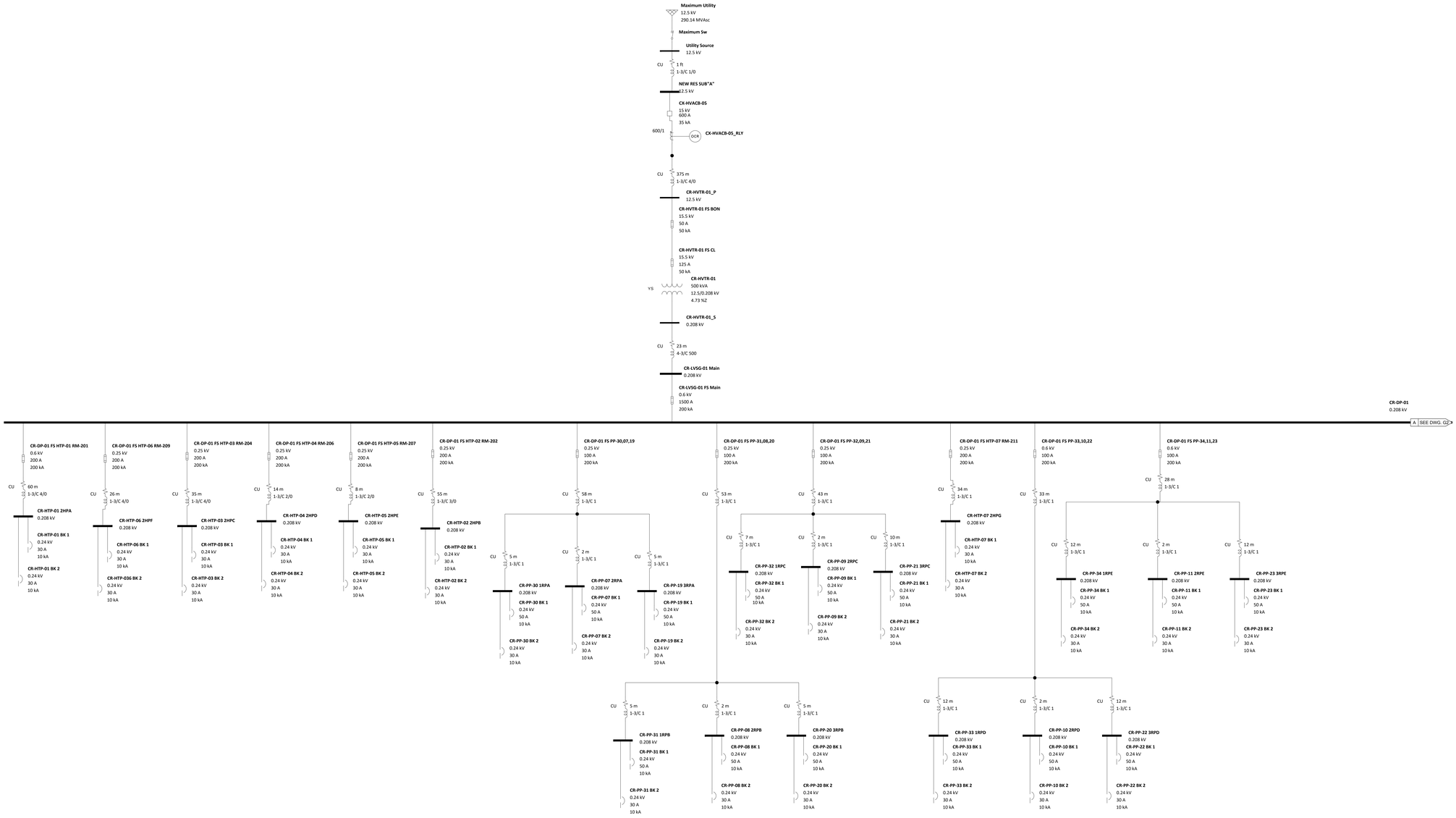
Arc Flash Report - IEEE 1584 Calculations
Worst Case Based on All Scenarios

Bus Name	Equipment Type (Bus Gap (mm))	Upstream Protective Device Clearing Fault	Bolted Fault Current @ Bus	Bolted Fault Current Through Prot. Device	Arcing Fault Current @ Bus	Arcing Fault Current Through Prot. Device	Clearing Time (ms)	Arc Flash Hazard Analysis Results FPB (mm)	WD (mm)	IE (cal/cm²)
12,500 Volt Busses										
CR-HVTR-01_P	Cable Bus (152)	CX-HVACB-05	12,071	12,071	10,850	10,850	113	1,676	610	6.49
208 Volt Busses										
CR-DP-01	Switchgear (32)	CR-LVSG-01 FS Main	23,704	23,704	7,965	7,965	2,000	3,682	610	46.11
CR-DSW-01	Panelboard (25)	CR-LVSG-01 FS Main	20,771	20,771	8,895	8,895	2,000	3,658	457	82.37
CR-HTP-01 2HPA	Panelboard (25)	CR-DP-01 FS HTP-01 RM-201	6,342	6,342	2,202	2,202	85	381	457	0.79
CR-HTP-02 2HPB	Panelboard (25)	CR-DP-01 FS HTP-02 RM-202	5,931	5,931	2,053	2,053	562	914	457	4.90
CR-HTP-03 2HPC	Panelboard (25)	CR-DP-01 FS HTP-03 RM-204	9,277	9,277	3,901	3,901	8	152	457	0.14
CR-HTP-04 2HPD	Panelboard (25)	CR-DP-01 FS HTP-04 RM-206	12,927	12,927	4,662	4,662	8	177	457	0.17
CR-HTP-05 2HPE	Panelboard (25)	CR-DP-01 FS HTP-05 RM-207	16,330	16,330	7,030	7,030	4	152	457	0.13
CR-HTP-06 2HPF	Panelboard (25)	CR-DP-01 FS HTP-06 RM-209	11,097	11,097	4,713	4,713	8	177	457	0.17
CR-HTP-07 2HPG	Panelboard (25)	CR-DP-01 FS HTP-07 RM-211	5,478	5,478	1,889	1,889	51	280	457	0.41
CR-HVTR-01_S	Cable Bus (25)	CR-HVTR-01 FS BON	28,204	469	11,628	193	2,000	4,014	610	55.44
CR-LVSG-01 Main	Switchgear (32)	CR-HVTR-01 FS BON	23,704	394	9,448	157	2,000	4,014	610	55.04
CR-PP-01 1RPF	Panelboard (25)	CR-DP-01 FS PP-01,12,24	11,550	11,550	4,915	4,915	4	128	457	0.09
CR-PP-02 1RPG	Panelboard (25)	CR-DP-01 FS PP-02,13,25	12,769	12,769	5,460	5,460	10	204	457	0.25
CR-PP-03 1RPH	Panelboard (25)	CR-DP-01 FS PP-03,14,26	10,077	10,077	4,257	4,257	4	101	457	0.08
CR-PP-04 1RPJ	Panelboard (25)	CR-DP-01 FS PP-04,15,27	5,758	5,758	2,361	2,361	8	128	457	0.09
CR-PP-05 1RPK	Panelboard (25)	CR-DP-01 FS PP-05,16,28	4,777	4,777	1,942	1,942	8	101	457	0.07
CR-PP-06 1RPL	Panelboard (25)	CR-DP-01 FS PP-06,17,29	4,581	4,581	1,860	1,860	8	101	457	0.07
CR-PP-07 2RPA	Panelboard (25)	CR-DP-01 FS PP-30,07,19	3,343	3,343	1,132	1,132	13	101	457	0.06
CR-PP-08 2RPB	Panelboard (25)	CR-DP-01 FS PP-31,08,20	3,615	3,615	1,456	1,456	8	101	457	0.05
CR-PP-09 2RPC	Panelboard (25)	CR-DP-01 FS PP-32,09,21	4,315	4,315	1,748	1,748	8	101	457	0.06
CR-PP-10 2RPD	Panelboard (25)	CR-DP-01 FS PP-33,10,22	5,347	5,347	2,185	2,185	8	101	457	0.08
CR-PP-11 2RPE	Panelboard (25)	CR-DP-01 FS PP-34,11,23	6,068	6,068	2,102	2,102	8	128	457	0.08
CR-PP-12 2RPF	Panelboard (25)	CR-DP-01 FS PP-01,12,24	10,527	10,527	4,458	4,458	4	128	457	0.08

Arc Flash Report - IEEE 1584 Calculations
Worst Case Based on All Scenarios

Bus Name	Equipment Type (Bus Gap (mm))	Upstream Protective Device Clearing Fault	Bolted Fault Current @ Bus	Bolted Fault Current Through Prot. Device	Arcing Fault Current @ Bus	Arcing Fault Current Through Prot. Device	Clearing Time (ms)	Arc Flash Hazard Analysis Results FPB (mm)	WD (mm)	IE (cal/cm²)
CR-PP-13 2RPG	Panelboard (25)	CR-DP-01 FS PP-02,13,25	14,237	14,237	6,112	6,112	10	229	457	0.28
CR-PP-14 2RPH	Panelboard (25)	CR-DP-01 FS PP-03,14,26	10,077	10,077	4,257	4,257	4	101	457	0.08
CR-PP-15 2RPJ	Panelboard (25)	CR-DP-01 FS PP-04,15,27	6,798	6,798	2,369	2,369	8	128	457	0.09
CR-PP-16 2RPK	Panelboard (25)	CR-DP-01 FS PP-05,16,28	5,909	5,909	2,045	2,045	8	128	457	0.07
CR-PP-17 2RPL	Panelboard (25)	CR-DP-01 FS PP-06,17,29	5,478	5,478	2,240	2,240	8	101	457	0.08
CR-PP-18 2RPM	Panelboard (25)	CR-DP-01 FS PP-18	10,077	10,077	4,257	4,257	4	101	457	0.08
CR-PP-19 3RPA	Panelboard (25)	CR-DP-01 FS PP-30,07,19	3,199	3,199	1,082	1,082	17	128	457	0.08
CR-PP-20 3RPB	Panelboard (25)	CR-DP-01 FS PP-31,08,20	3,447	3,447	1,169	1,169	11	101	457	0.06
CR-PP-21 3RPC	Panelboard (25)	CR-DP-01 FS PP-32,09,21	3,736	3,736	1,506	1,506	8	101	457	0.05
CR-PP-22 3RPD	Panelboard (25)	CR-DP-01 FS PP-33,10,22	4,315	4,315	1,748	1,748	8	101	457	0.06
CR-PP-23 3RPE	Panelboard (25)	CR-DP-01 FS PP-34,11,23	4,777	4,777	1,942	1,942	8	101	457	0.07
CR-PP-24 3RPF	Panelboard (25)	CR-DP-01 FS PP-01,12,24	8,919	8,919	3,743	3,743	4	101	457	0.07
CR-PP-25 3RPG	Panelboard (25)	CR-DP-01 FS PP-02,13,25	11,550	11,550	4,915	4,915	10	204	457	0.22
CR-PP-26 3RPH	Panelboard (25)	CR-DP-01 FS PP-03,14,26	8,279	8,279	3,459	3,459	4	101	457	0.06
CR-PP-27 3RPJ	Panelboard (25)	CR-DP-01 FS PP-04,15,27	5,758	5,758	2,361	2,361	8	128	457	0.09
CR-PP-28 3RPK	Panelboard (25)	CR-DP-01 FS PP-05,16,28	4,990	4,990	2,033	2,033	8	101	457	0.07
CR-PP-29 3RPL	Panelboard (25)	CR-DP-01 FS PP-06,17,29	4,777	4,777	1,942	1,942	8	101	457	0.07
CR-PP-30 1RPA	Panelboard (25)	CR-DP-01 FS PP-30,07,19	3,199	3,199	1,082	1,082	17	128	457	0.08
CR-PP-31 1RPB	Panelboard (25)	CR-DP-01 FS PP-31,08,20	3,447	3,447	1,169	1,169	11	101	457	0.06
CR-PP-32 1RPC	Panelboard (25)	CR-DP-01 FS PP-32,09,21	3,935	3,935	1,589	1,589	8	101	457	0.06
CR-PP-33 1RPD	Panelboard (25)	CR-DP-01 FS PP-33,10,22	4,315	4,315	1,748	1,748	8	101	457	0.06
CR-PP-34 1RPE	Panelboard (25)	CR-DP-01 FS PP-34,11,23	4,777	4,777	1,942	1,942	8	101	457	0.07
CR-PP-35 2RPN	Panelboard (25)	CR-DSW-01 FS	20,516	20,516	7,411	7,411	50	533	457	1.67



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1	ISSUED FOR FINAL	A.T.	A.Z.	2023.02.13
0		A.T.	P.D.	2022.11.22
Revision		By	Appd	YYYY.MM.DD
A	ISSUED WITH REPORT	A.T.	A.Z.	2022.11.22
Issued		By	Appd	YYYY.MM.DD
File Name: MUN_CARTIER		A.T.	P.D.	2022.11.22
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SHORT CIRCUIT, COORDINATION, DEVICE EVALUATION, & ARC FLASH

ST. JOHN'S, NL

Title
BURTON'S POND APARTMENTS - CARTIER
POWER SYSTEM MODEL

Project No.	Scale
133411869	NONE
Revision	Sheet
1	1 of 2

Drawing No.
G1

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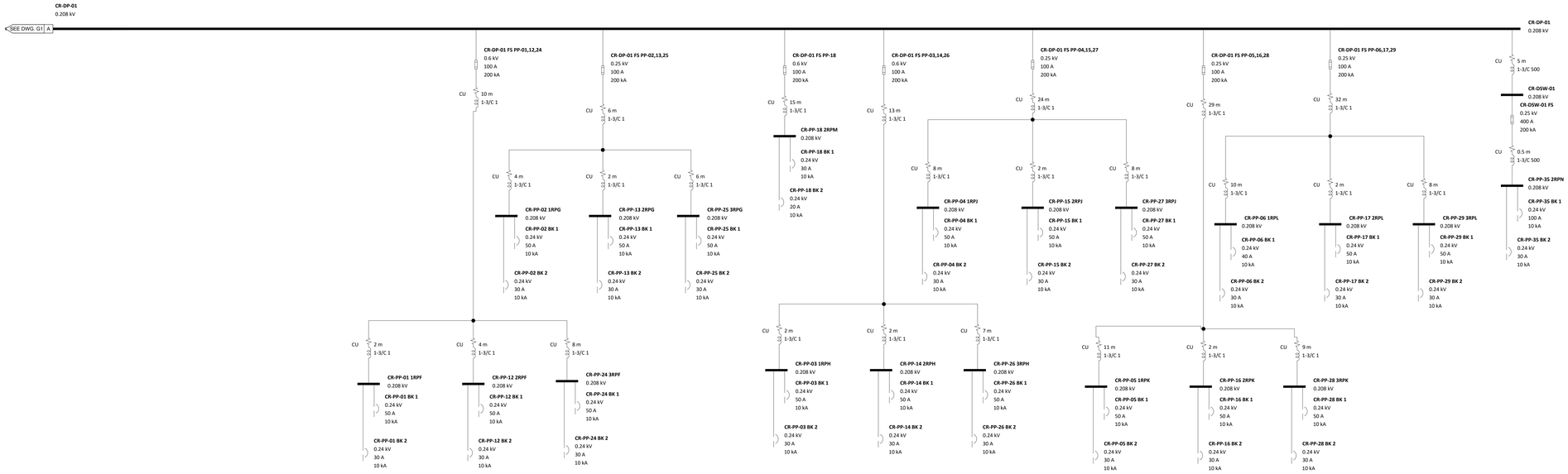

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1	ISSUED FOR FINAL	A.T.	A.Z.	2023.02.13
0		A.T.	P.D.	2022.11.22
Revision		By	Appd	YYYY.MM.DD
A	ISSUED WITH REPORT	A.T.	A.Z.	2022.11.22
Issued		By	Appd	YYYY.MM.DD
File Name: MUN_CARTIER		A.T.	P.D.	2022.11.22
		Dwn.	Dsgn.	Chkd. YYYY.MM.DD

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MEMORIAL UNIVERISTY OF NEWFOUNDLAND

SHORT CIRCUIT, COORDINATION, DEVICE EVALUATION, & ARC FLASH

ST. JOHN'S, NL

Title
BURTON'S POND APARTMENTS - CARTIER POWER SYSTEM MODEL

Project No.	Scale
133411869	NONE
Revision 1	Sheet 2 of 2
Drawing No.	**G2**

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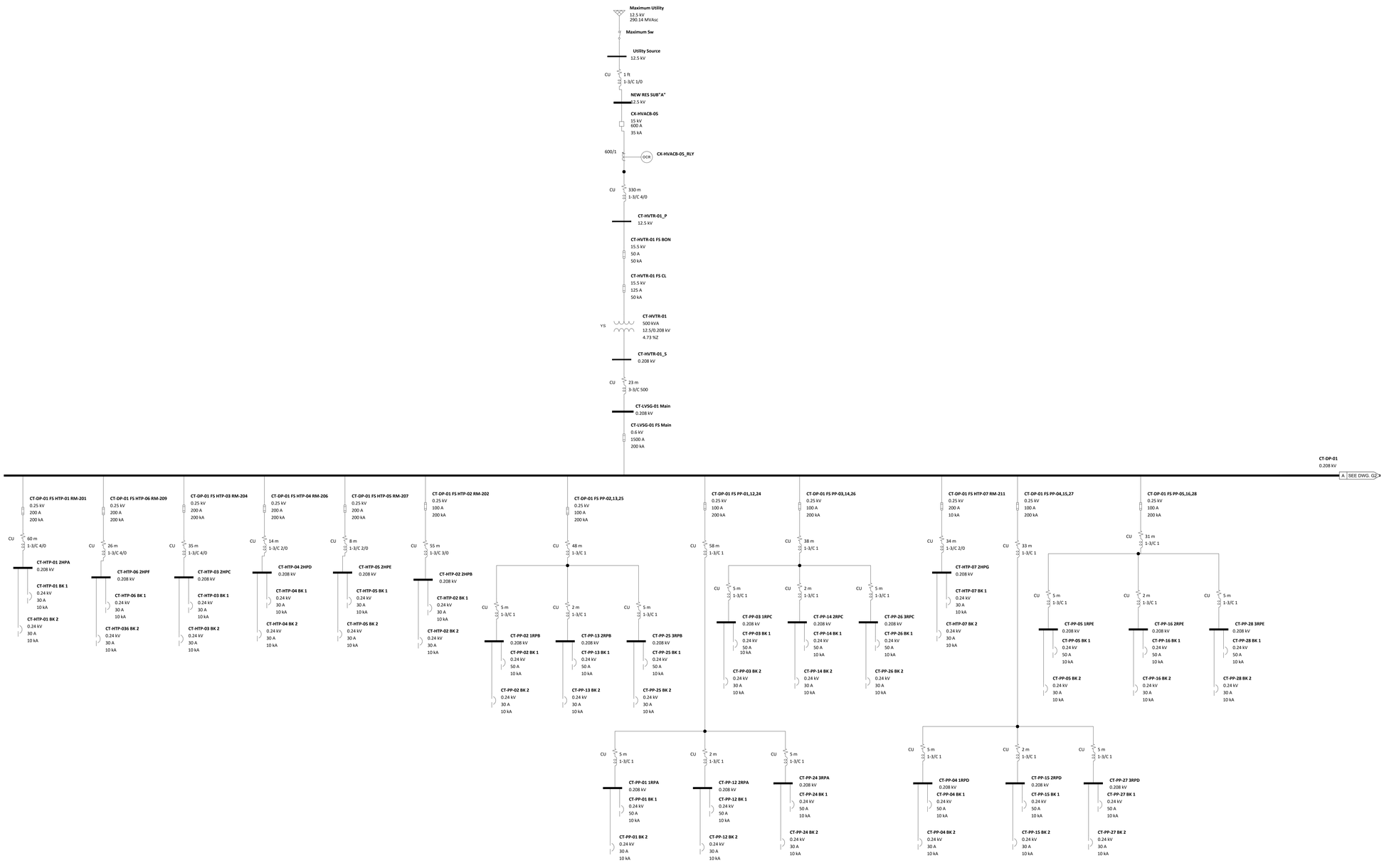
ORIGINAL SHEET - ISO A1

Arc Flash Report - IEEE 1584 Calculations
Worst Case Based on All Scenarios

Bus Name	Equipment Type (Bus Gap (mm))	Upstream Protective Device Clearing Fault	Bolted Fault Current @ Bus	Bolted Fault Current Through Prot. Device	Arcing Fault Current @ Bus	Arcing Fault Current Through Prot. Device	Clearing Time (ms)	Arc Flash Hazard Analysis Results FPB (mm)	WD (mm)	IE (cal/cm²)
12,500 Volt Busses										
CT-HVTR-01_P	Cable Bus (152)	CX-HVACB-05	12,468	12,468	11,208	11,208	113	1,701	610	6.72
208 Volt Busses										
CT-DP-01	Switchgear (32)	CT-LVSG-01 FS Main	22,711	22,711	9,090	9,090	1,831	3,758	610	48.39
CT-DSW-01	Panelboard (25)	CT-LVSG-01 FS Main	20,910	20,910	8,951	8,951	1,995	3,682	457	82.69
CT-HTP-01 2HPA	Panelboard (25)	CT-DP-01 FS HTP-01 RM-201	6,268	6,268	2,175	2,175	21	177	457	0.20
CT-HTP-02 2HPB	Panelboard (25)	CT-DP-01 FS HTP-02 RM-202	5,867	5,867	2,029	2,029	44	253	457	0.38
CT-HTP-03 2HPC	Panelboard (25)	CT-DP-01 FS HTP-03 RM-204	9,116	9,116	3,830	3,830	8	152	457	0.14
CT-HTP-04 2HPD	Panelboard (25)	CT-DP-01 FS HTP-04 RM-206	12,618	12,618	4,546	4,546	8	177	457	0.17
CT-HTP-05 2HPE	Panelboard (25)	CT-DP-01 FS HTP-05 RM-207	15,835	15,835	6,815	6,815	4	152	457	0.13
CT-HTP-06 2HPF	Panelboard (25)	CT-DP-01 FS HTP-06 RM-209	10,867	10,867	4,610	4,610	8	177	457	0.17
CT-HTP-07 2HPG	Panelboard (25)	CT-DP-01 FS HTP-07 RM-211	7,331	7,331	2,565	2,565	103	433	457	1.13
CT-HVTR-01_S	Cable Bus (25)	CT-HVTR-01 FS BON	28,534	475	11,735	195	2,000	4,039	610	55.98
CT-LVSG-01 Main	Switchgear (32)	CT-HVTR-01 FS BON	22,711	378	9,090	151	2,000	3,938	610	52.86
CT-PP-01 1RPA	Panelboard (25)	CT-DP-01 FS PP-01,12,24	3,182	3,182	1,077	1,077	111	305	457	0.51
CT-PP-02 1RPB	Panelboard (25)	CT-DP-01 FS PP-02,13,25	3,713	3,713	1,497	1,497	8	101	457	0.05
CT-PP-03 1RPC	Panelboard (25)	CT-DP-01 FS PP-03,14,26	4,455	4,455	1,807	1,807	8	101	457	0.07
CT-PP-04 1RPD	Panelboard (25)	CT-DP-01 FS PP-04,15,27	4,948	4,948	2,015	2,015	8	101	457	0.07
CT-PP-05 1RPE	Panelboard (25)	CT-DP-01 FS PP-05,16,28	5,177	5,177	2,112	2,112	8	101	457	0.08
CT-PP-06 1RPF	Panelboard (25)	CT-DP-01 FS PP-06,17,29	13,136	13,136	5,623	5,623	4	128	457	0.11
CT-PP-07 1RPG	Panelboard (25)	CT-DP-01 FS PP-07,18,30	13,136	13,136	5,623	5,623	4	128	457	0.11
CT-PP-08 1RPH	Panelboard (25)	CT-DP-01 FS PP-08,19,31	10,328	10,328	4,369	4,369	4	101	457	0.08
CT-PP-09 1RPJ	Panelboard (25)	CT-DP-01 FS PP-09,20,32	6,006	6,006	2,080	2,080	40	253	457	0.36
CT-PP-10 1RPK	Panelboard (25)	CT-DP-01 FS PP-10,21,33	5,299	5,299	2,164	2,164	8	101	457	0.08
CT-PP-11 1RPL	Panelboard (25)	CT-DP-01 FS PP-11,22,34	4,455	4,455	1,807	1,807	8	101	457	0.07
CT-PP-12 2RPA	Panelboard (25)	CT-DP-01 FS PP-01,12,24	3,325	3,325	1,126	1,126	99	280	457	0.47

Arc Flash Report - IEEE 1584 Calculations
Worst Case Based on All Scenarios

Bus Name	Equipment Type (Bus Gap (mm))	Upstream Protective Device Clearing Fault	Bolted Fault Current @ Bus	Bolted Fault Current Through Prot. Device	Arcing Fault Current @ Bus	Arcing Fault Current Through Prot. Device	Clearing Time (ms)	Arc Flash Hazard Analysis Results FPB (mm)	WD (mm)	IE (cal/cm²)
CT-PP-13 2RPB	Panelboard (25)	CT-DP-01 FS PP-02,13,25	3,909	3,909	1,578	1,578	8	101	457	0.06
CT-PP-14 2RPC	Panelboard (25)	CT-DP-01 FS PP-03,14,26	4,739	4,739	1,926	1,926	8	101	457	0.07
CT-PP-15 2RPD	Panelboard (25)	CT-DP-01 FS PP-04,15,27	5,299	5,299	2,164	2,164	8	101	457	0.08
CT-PP-16 2RPE	Panelboard (25)	CT-DP-01 FS PP-05,16,28	5,561	5,561	2,276	2,276	8	128	457	0.08
CT-PP-17 2RPF	Panelboard (25)	CT-DP-01 FS PP-06,17,29	12,471	12,471	5,327	5,327	4	128	457	0.10
CT-PP-18 2RPG	Panelboard (25)	CT-DP-01 FS PP-07,18,30	14,663	14,663	6,300	6,300	4	152	457	0.12
CT-PP-19 2RPH	Panelboard (25)	CT-DP-01 FS PP-08,19,31	11,864	11,864	5,056	5,056	4	128	457	0.10
CT-PP-20 2RPJ	Panelboard (25)	CT-DP-01 FS PP-09,20,32	6,923	6,923	2,415	2,415	23	204	457	0.24
CT-PP-21 2RPK	Panelboard (25)	CT-DP-01 FS PP-10,21,33	6,006	6,006	2,080	2,080	8	128	457	0.08
CT-PP-22 2RPL	Panelboard (25)	CT-DP-01 FS PP-11,22,34	4,739	4,739	1,926	1,926	8	101	457	0.07
CT-PP-23 2RPM	Panelboard (25)	CT-DP-01 FS PP-23	12,471	12,471	5,327	5,327	4	128	457	0.10
CT-PP-24 3RPA	Panelboard (25)	CT-DP-01 FS PP-01,12,24	3,182	3,182	1,077	1,077	111	305	457	0.51
CT-PP-25 3RPB	Panelboard (25)	CT-DP-01 FS PP-02,13,25	3,713	3,713	1,497	1,497	8	101	457	0.05
CT-PP-26 3RPC	Panelboard (25)	CT-DP-01 FS PP-03,14,26	4,455	4,455	1,807	1,807	8	101	457	0.06
CT-PP-27 3RPD	Panelboard (25)	CT-DP-01 FS PP-04,15,27	4,948	4,948	2,015	2,015	8	101	457	0.07
CT-PP-28 3RPE	Panelboard (25)	CT-DP-01 FS PP-05,16,28	5,177	5,177	2,112	2,112	8	101	457	0.08
CT-PP-29 3RPF	Panelboard (25)	CT-DP-01 FS PP-06,17,29	10,798	10,798	4,579	4,579	4	128	457	0.09
CT-PP-30 3RPG	Panelboard (25)	CT-DP-01 FS PP-07,18,30	13,136	13,136	5,623	5,623	4	128	457	0.11
CT-PP-31 3RPH	Panelboard (25)	CT-DP-01 FS PP-08,19,31	10,328	10,328	4,369	4,369	4	101	457	0.08
CT-PP-32 3RPJ	Panelboard (25)	CT-DP-01 FS PP-09,20,32	6,006	6,006	2,080	2,080	40	253	457	0.36
CT-PP-33 3RPK	Panelboard (25)	CT-DP-01 FS PP-10,21,33	5,299	5,299	2,164	2,164	8	101	457	0.08
CT-PP-34 3RPL	Panelboard (25)	CT-DP-01 FS PP-11,22,34	4,455	4,455	1,807	1,807	8	101	457	0.07
CT-PP-35 2RPN	Panelboard (25)	CT-DSW-01 FS	20,490	20,490	8,782	8,782	10	253	457	0.40



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1 ISSUED FOR FINAL	A.T.	A.Z.	2023.02.13
0	A.T.	P.D.	2022.11.22

Issued	By	Appd	YYYY.MM.DD
A ISSUED WITH REPORT	A.T.	A.Z.	2022.11.22
File Name: MUN_CABOT	A.T. Dwn.	P.D. Dsgn.	2022.11.22 Chkd. YYYY.MM.DD

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SHORT CIRCUIT, COORDINATION, DEVICE EVALUATION, & ARC FLASH

ST. JOHN'S, NL

Title

BURTON'S POND APARTMENTS - CABOT POWER SYSTEM MODEL

Project No. 133411869

Scale NONE

Revision 1

Sheet 1 of 2

Drawing No. **G1**

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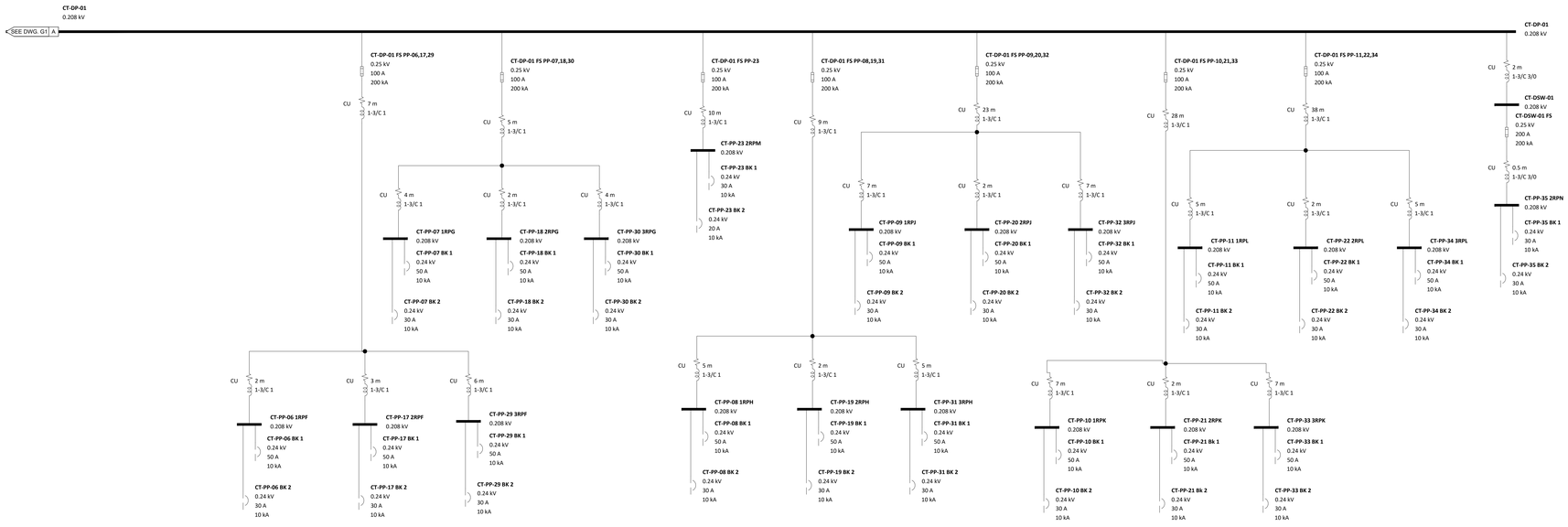

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ISSUED FOR FINAL	A.T.	A.Z.	2023.03.10
0	A.T.	P.D.	2022.11.22
A ISSUED WITH REPORT	A.T.	A.Z.	2022.11.22

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	A.T.		P.D.	2022.11.22

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ST. JOHN'S, NL

Title

BURTON'S POND APARTMENTS - CABOT POWER SYSTEM MODEL

Project No.	Scale
133411869	NONE
Revision 1	Sheet 2 of 2
	Drawing No. G2

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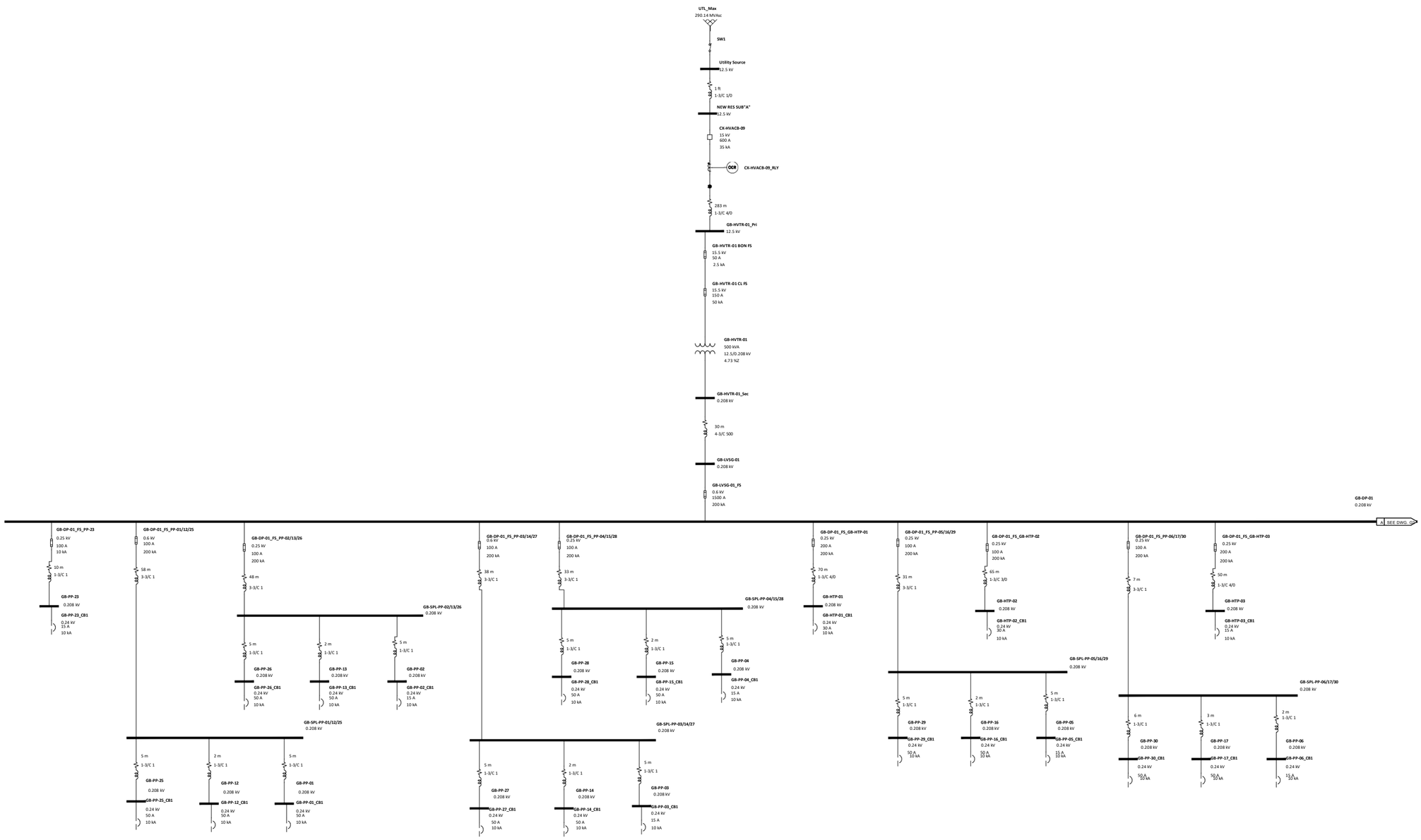
ORIGINAL SHEET - ISO A0

Arc Flash Report - IEEE 1584 Calculations
Worst Case Based on All Scenarios

Bus Name	Equipment Type (Bus Gap (mm))	Upstream Protective Device Clearing Fault	Bolted Fault Current @ Bus	Bolted Fault Current Through Prot. Device	Arcing Fault Current @ Bus	Arcing Fault Current Through Prot. Device	Clearing Time (ms)	Arc Flash Hazard Analysis Results FPB (mm)	WD (mm)	IE (cal/cm²)
12,500 Volt Busses										
GB-HVTR-01_Pri	Cable Bus (153)	CX-HVACB-09	12,385	12,385	11,133	11,133	155	2,413	914	6.02
208 Volt Busses										
GB-DP-01	Switchboard (32)	GB-HVTR-01 BON FS	23,289	388	9,300	155	2,000	3,911	610	52.38
GB-DSW-01	Panelboard (25)	GB-HVTR-01 BON FS	18,993	316	8,165	136	2,000	3,328	457	68.03
GB-HTP-01	Panelboard (25)	GB-DP-01_FS_GB-HTP-01	5,869	5,869	2,030	2,030	32	229	457	0.27
GB-HTP-02	Panelboard (25)	GB-DP-01_FS_GB-HTP-02	5,406	5,406	2,210	2,210	10	128	457	0.09
GB-HTP-03	Panelboard (25)	GB-DP-01_FS_GB-HTP-03	7,558	7,558	3,142	3,142	10	152	457	0.14
GB-HTP-04	Panelboard (25)	GB-DP-01_FS_GB-HTP-04	13,689	13,689	5,869	5,869	10	204	457	0.26
GB-HTP-05	Panelboard (25)	GB-DP-01_FS_GB-HTP-05	15,277	15,277	6,570	6,570	10	229	457	0.29
GB-HTP-06	Panelboard (25)	GB-DP-01_FS_GB-HTP-06	11,437	11,437	4,865	4,865	10	204	457	0.21
GB-HTP-07	Panelboard (25)	GB-DP-01_FS_GB-HTP-07	7,392	7,392	3,069	3,069	10	152	457	0.13
GB-HVTR-01_Sec	Cable Bus (25)	GB-HVTR-01 BON FS	28,230	470	10,970	183	2,000	4,115	610	57.82
GB-LVSG-01	Switchboard (32)	GB-HVTR-01 BON FS	23,289	388	9,300	155	2,000	3,911	610	52.38
GB-PP-01	Panelboard (25)	GB-DP-01_FS_PP-01/12/25	7,379	7,379	3,063	3,063	10	152	457	0.14
GB-PP-02	Panelboard (25)	GB-DP-01_FS_PP-02/13/26	8,225	8,225	3,436	3,436	10	152	457	0.15
GB-PP-03	Panelboard (25)	GB-DP-01_FS_PP-03/14/27	9,279	9,279	3,902	3,902	10	177	457	0.17
GB-PP-04	Panelboard (25)	GB-DP-01_FS_PP-04/15/28	9,907	9,907	4,182	4,182	10	177	457	0.19
GB-PP-05	Panelboard (25)	GB-DP-01_FS_PP-05/16/29	10,182	10,182	4,304	4,304	10	177	457	0.19
GB-PP-06	Panelboard (25)	GB-DP-01_FS_PP-06/17/30	17,824	17,824	7,672	7,672	10	253	457	0.35
GB-PP-07	Panelboard (25)	GB-DP-01_FS_PP-07/18/31	16,459	16,459	7,086	7,086	10	229	457	0.33
GB-PP-08	Panelboard (25)	GB-HVTR-01 BON FS	14,426		5,223			3,328	457	67.86
GB-PP-09	Panelboard (25)	GB-DP-01_FS_PP-09/20/33	10,470	10,470	4,433	4,433	10	177	457	0.20
GB-PP-10	Panelboard (25)	GB-DP-01_FS_PP-10/21/34	9,776	9,776	4,123	4,123	10	177	457	0.19
GB-PP-11	Panelboard (25)	GB-DP-01_FS_PP-11/22/35	9,279	9,279	3,902	3,902	10	177	457	0.17
GB-PP-12	Panelboard (25)	GB-DP-01_FS_PP-01/12/25	8,132	8,132	3,395	3,395	10	152	457	0.15

Arc Flash Report - IEEE 1584 Calculations
Worst Case Based on All Scenarios

Bus Name	Equipment Type (Bus Gap (mm))	Upstream Protective Device Clearing Fault	Bolted Fault Current @ Bus	Bolted Fault Current Through Prot. Device	Arcing Fault Current @ Bus	Arcing Fault Current Through Prot. Device	Clearing Time (ms)	Arc Flash Hazard Analysis Results FPB (mm)	Arc Flash Hazard Analysis Results WD (mm)	Arc Flash Hazard Analysis Results IE (cal/cm²)
GB-PP-13	Panelboard (25)	GB-DP-01_FS_PP-02/13/26	9,163	9,163	3,851	3,851	10	177	457	0.17
GB-PP-14	Panelboard (25)	GB-DP-01_FS_PP-03/14/27	10,470	10,470	4,433	4,433	10	177	457	0.20
GB-PP-15	Panelboard (25)	GB-DP-01_FS_PP-04/15/28	11,261	11,261	4,786	4,786	10	204	457	0.22
GB-PP-16	Panelboard (25)	GB-DP-01_FS_PP-05/16/29	11,609	11,609	4,942	4,942	10	204	457	0.22
GB-PP-17	Panelboard (25)	GB-DP-01_FS_PP-06/17/30	16,785	16,785	7,227	7,227	10	229	457	0.33
GB-PP-18	Panelboard (25)	GB-DP-01_FS_PP-07/18/31	18,567	18,567	7,987	7,987	10	253	457	0.37
GB-PP-19	Panelboard (25)	GB-HVTR-01 BON FS	17,122	285	7,372	123	2,000	3,328	457	67.86
GB-PP-20	Panelboard (25)	GB-DP-01_FS_PP-09/20/33	13,214	13,214	5,658	5,658	10	204	457	0.26
GB-PP-21	Panelboard (25)	GB-DP-01_FS_PP-10/21/34	12,168	12,168	5,191	5,191	10	204	457	0.24
GB-PP-22	Panelboard (25)	GB-DP-01_FS_PP-11/22/35	10,470	10,470	4,433	4,433	10	177	457	0.20
GB-PP-23	Panelboard (25)	GB-DP-01_FS_PP-23	12,992	12,992	5,559	5,559	10	204	457	0.25
GB-PP-24	Panelboard (25)	GB-DSW-01_FS	14,194	14,194	6,093	6,093	10	204	457	0.27
GB-PP-25	Panelboard (25)	GB-DP-01_FS_PP-01/12/25	7,379	7,379	3,063	3,063	10	152	457	0.14
GB-PP-26	Panelboard (25)	GB-DP-01_FS_PP-02/13/26	8,225	8,225	3,436	3,436	10	152	457	0.15
GB-PP-27	Panelboard (25)	GB-DP-01_FS_PP-03/14/27	9,279	9,279	3,902	3,902	10	177	457	0.17
GB-PP-28	Panelboard (25)	GB-DP-01_FS_PP-04/15/28	9,907	9,907	4,182	4,182	10	177	457	0.19
GB-PP-29	Panelboard (25)	GB-DP-01_FS_PP-05/16/29	10,182	10,182	4,304	4,304	10	177	457	0.19
GB-PP-30	Panelboard (25)	GB-DP-01_FS_PP-06/17/30	14,169	14,169	6,082	6,082	10	229	457	0.28
GB-PP-31	Panelboard (25)	GB-DP-01_FS_PP-07/18/31	16,459	16,459	7,086	7,086	10	229	457	0.33
GB-PP-32	Panelboard (25)	GB-HVTR-01 BON FS	14,426		5,223			3,328	457	67.86
GB-PP-33	Panelboard (25)	GB-DP-01_FS_PP-09/20/33	10,470	10,470	4,433	4,433	10	177	457	0.20
GB-PP-34	Panelboard (25)	GB-DP-01_FS_PP-10/21/34	9,776	9,776	4,123	4,123	10	177	457	0.19
GB-PP-35	Panelboard (25)	GB-DP-01_FS_PP-11/22/35	9,279	9,279	3,902	3,902	10	177	457	0.17



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No.	Revision	By	Appd	YYYY.MM.DD
1	ISSUED FOR FINAL	A.T.	A.Z.	2023.02.13
0		A.T.	P.D.	2022.11.25
A	ISSUED WITH REPORT	A.T.	A.Z.	2022.11.25

File Name: MUN_GILBERT — Dwn. A.T. — Dsgn. — Chkd. P.D. — YYYY.MM.DD

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SHORT CIRCUIT, COORDINATION, DEVICE EVALUATION, & ARC FLASH

ST. JOHN'S, NL

Title
BURTON'S POND APARTMENTS - GILBERT
POWER SYSTEM MODEL

Project No. 133411869 — Scale NONE

Revision 1 — Sheet 1 of 2 — Drawing No. **G1**

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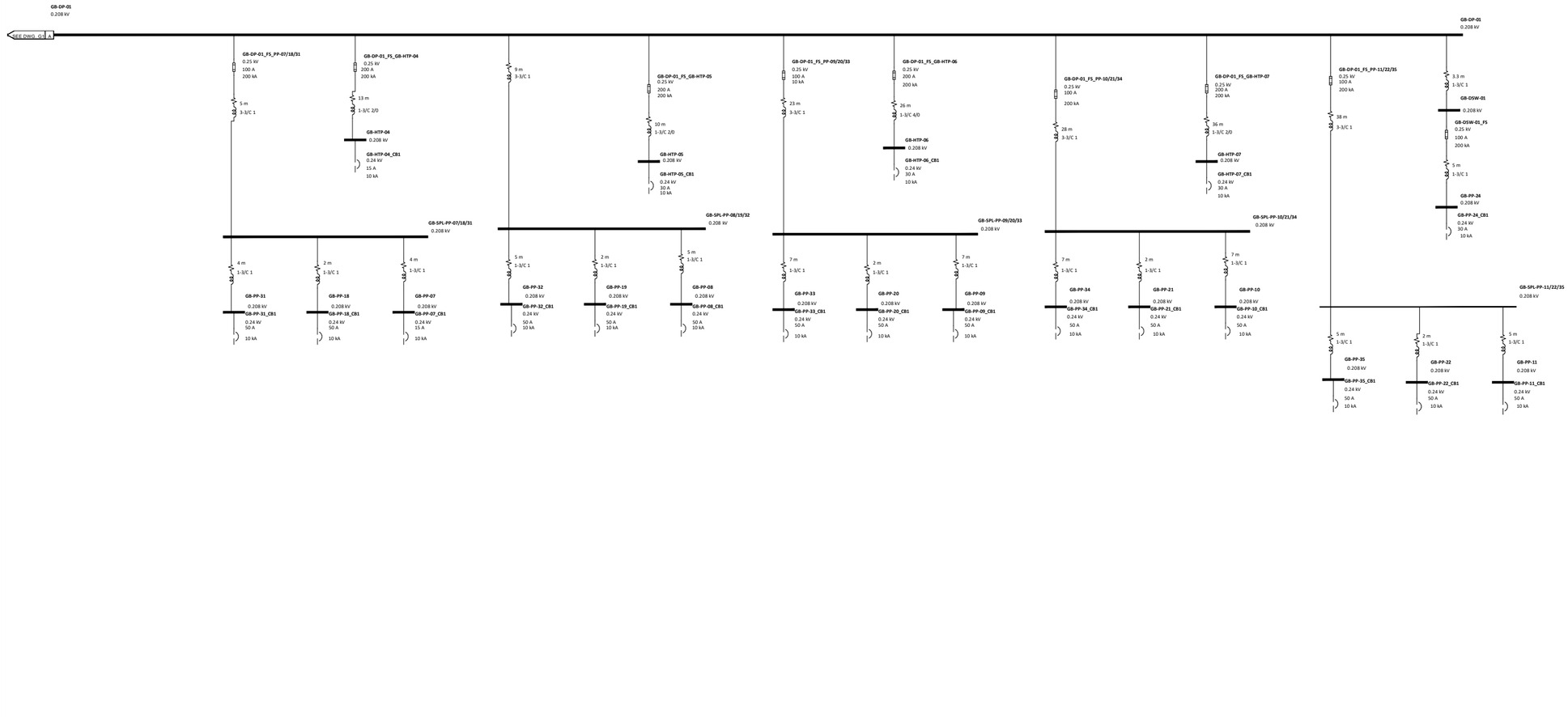

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No.	Revision	By	Appd	YYYY.MM.DD
1	ISSUED FOR FINAL	A.T.	A.Z.	2023.02.13
0		A.T.	P.D.	2022.11.25
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Issued

File Name: MUN_GILBERT	By	Appd	YYYY.MM.DD
	A.T.	P.D.	2022.11.25
	Dwn.	Chkd.	YYYY.MM.DD

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Title

BURTON'S POND APARTMENTS - GILBERT POWER SYSTEM MODEL

Project No.	Scale
133411869	NONE
Revision	Drawing No.
1	**G2**

Sheet 2 of 2

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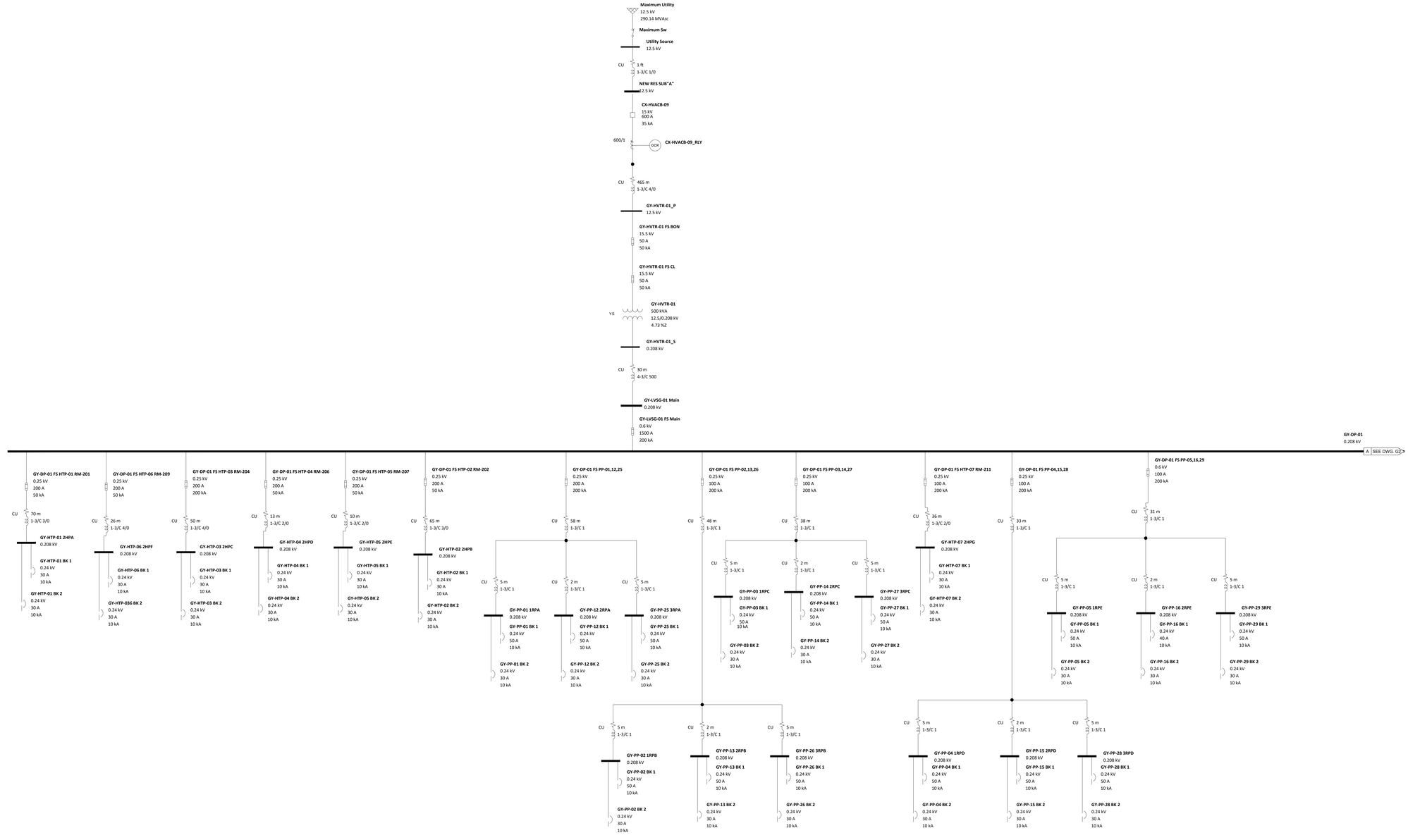
ORIGINAL SHEET - ISO A2

Arc Flash Report - IEEE 1584 Calculations
Worst Case Based on All Scenarios

Bus Name	Equipment Type (Bus Gap (mm))	Upstream Protective Device Clearing Fault	Bolted Fault Current @ Bus	Bolted Fault Current Through Prot. Device	Arcing Fault Current @ Bus	Arcing Fault Current Through Prot. Device	Clearing Time (ms)	Arc Flash Hazard Analysis Results FPB (mm)	WD (mm)	IE (cal/cm²)
12,500 Volt Busses										
GY-HVTR-01_P	Cable Bus (152)	CX-HVACB-09	12,542	12,542	11,275	11,275	113	1,728	610	6.76
208 Volt Busses										
GY-DP-01	Switchgear (32)	GY-HVTR-01 FS CL	22,619	376	9,056	151	1,276	3,149	610	33.60
GY-DSW-01	Panelboard (25)	GY-HVTR-01 FS CL	19,924	332	8,551	142	1,276	2,743	457	45.56
GY-HTP-01 2HPA	Panelboard (25)	GY-DP-01 FS HTP-01 RM-201	4,831	4,831	1,657	1,657	193	482	457	1.35
GY-HTP-02 2HPB	Panelboard (25)	GY-DP-01 FS HTP-02 RM-202	5,132	5,132	1,764	1,764	148	433	457	1.10
GY-HTP-03 2HPC	Panelboard (25)	GY-DP-01 FS HTP-03 RM-204	7,157	7,157	2,501	2,501	59	329	457	0.63
GY-HTP-04 2HPD	Panelboard (25)	GY-DP-01 FS HTP-04 RM-206	13,035	13,035	5,578	5,578	8	177	457	0.21
GY-HTP-05 2HPE	Panelboard (25)	GY-DP-01 FS HTP-05 RM-207	14,573	14,573	6,260	6,260	8	204	457	0.23
GY-HTP-06 2HPF	Panelboard (25)	GY-DP-01 FS HTP-06 RM-209	10,842	10,842	3,877	3,877	21	253	457	0.36
GY-HTP-07 2HPG	Panelboard (25)	GY-DP-01 FS HTP-07 RM-211	7,020	7,020	2,907	2,907	4	101	457	0.05
GY-HVTR-01_S	Cable Bus (25)	GY-HVTR-01 FS CL	28,243	470	11,640	194	1,276	3,225	610	35.42
GY-LVSG-01 Main	Switchgear (32)	GY-HVTR-01 FS CL	22,619	376	9,056	151	1,276	3,149	610	33.60
GY-PP-01 1RPA	Panelboard (25)	GY-DP-01 FS PP-01,12,25	3,180	3,180	1,076	1,076	892	838	457	4.07
GY-PP-02 1RPB	Panelboard (25)	GY-DP-01 FS PP-02,13,26	3,711	3,711	1,495	1,495	8	101	457	0.05
GY-PP-03 1RPC	Panelboard (25)	GY-DP-01 FS PP-03,14,27	4,451	4,451	1,522	1,522	148	405	457	0.97
GY-PP-04 1RPD	Panelboard (25)	GY-DP-01 FS PP-04,15,28	4,943	4,943	2,013	2,013	8	101	457	0.07
GY-PP-05 1RPE	Panelboard (25)	GY-DP-01 FS PP-05,16,29	5,171	5,171	1,778	1,778	10	128	457	0.08
GY-PP-06 1RPF	Panelboard (25)	GY-DP-01 FS PP-06,17,30	10,773	10,773	4,568	4,568	4	128	457	0.09
GY-PP-07 1RPG	Panelboard (25)	GY-DP-01 FS PP-07,18,31	13,099	13,099	5,607	5,607	4	128	457	0.11
GY-PP-08 1RPH	Panelboard (25)	GY-DP-01 FS PP-08,19,32	10,305	10,305	4,359	4,359	4	101	457	0.08
GY-PP-09 1RPJ	Panelboard (25)	GY-DP-01 FS PP-09,20,33	5,998	5,998	2,077	2,077	8	128	457	0.08
GY-PP-10 1RPK	Panelboard (25)	GY-DP-01 FS PP-10,21,34	5,293	5,293	2,161	2,161	8	101	457	0.08
GY-PP-11 1RPL	Panelboard (25)	GY-DP-01 FS PP-11,22,35	4,281	4,281	1,733	1,733	8	101	457	0.06
GY-PP-12 2RPA	Panelboard (25)	GY-DP-01 FS PP-01,12,25	3,322	3,322	1,125	1,125	721	762	457	3.45

Arc Flash Report - IEEE 1584 Calculations
Worst Case Based on All Scenarios

Bus Name	Equipment Type (Bus Gap (mm))	Upstream Protective Device Clearing Fault	Bolted Fault Current		Arcing Fault Current		Clearing Time (ms)	Arc Flash Hazard Analysis Results		
			@ Bus	Through Prot. Device	@ Bus	Through Prot. Device		FPB (mm)	WD (mm)	IE (cal/cm²)
GY-PP-13 2RPB	Panelboard (25)	GY-DP-01 FS PP-02,13,26	3,906	3,906	1,577	1,577	8	101	457	0.06
GY-PP-14 2RPC	Panelboard (25)	GY-DP-01 FS PP-03,14,27	4,734	4,734	1,622	1,622	114	381	457	0.80
GY-PP-15 2RPD	Panelboard (25)	GY-DP-01 FS PP-04,15,28	5,293	5,293	2,161	2,161	8	101	457	0.08
GY-PP-16 2RPE	Panelboard (25)	GY-DP-01 FS PP-05,16,29	5,554	5,554	2,273	2,273	8	128	457	0.08
GY-PP-17 2RPF	Panelboard (25)	GY-DP-01 FS PP-06,17,30	12,438	12,438	5,312	5,312	4	128	457	0.10
GY-PP-18 2RPG	Panelboard (25)	GY-DP-01 FS PP-07,18,31	15,491	15,491	6,664	6,664	4	152	457	0.13
GY-PP-19 2RPH	Panelboard (25)	GY-DP-01 FS PP-08,19,32	11,834	11,834	5,042	5,042	4	128	457	0.10
GY-PP-20 2RPJ	Panelboard (25)	GY-DP-01 FS PP-09,20,33	6,913	6,913	2,860	2,860	4	101	457	0.05
GY-PP-21 2RPK	Panelboard (25)	GY-DP-01 FS PP-10,21,34	5,998	5,998	2,077	2,077	8	128	457	0.08
GY-PP-22 2RPL	Panelboard (25)	GY-DP-01 FS PP-11,22,35	4,734	4,734	1,924	1,924	8	101	457	0.07
GY-PP-23 2RPM	Panelboard (25)	GY-DP-01 FS PP-23	8,490	8,490	3,552	3,552	8	152	457	0.13
GY-PP-24 2RPN	Panelboard (25)	GY-DSW-01 FS	19,689	19,689	8,454	8,454	10	253	457	0.38
GY-PP-25 3RPA	Panelboard (25)	GY-DP-01 FS PP-01,12,25	3,180	3,180	1,076	1,076	892	838	457	4.07
GY-PP-26 3RPB	Panelboard (25)	GY-DP-01 FS PP-02,13,26	3,711	3,711	1,495	1,495	8	101	457	0.05
GY-PP-27 3RPC	Panelboard (25)	GY-DP-01 FS PP-03,14,27	4,451	4,451	1,522	1,522	148	405	457	0.94
GY-PP-28 3RPD	Panelboard (25)	GY-DP-01 FS PP-04,15,28	4,943	4,943	2,013	2,013	8	101	457	0.07
GY-PP-29 3RPE	Panelboard (25)	GY-DP-01 FS PP-05,16,29	5,171	5,171	1,778	1,778	10	128	457	0.08
GY-PP-30 3RPF	Panelboard (25)	GY-DP-01 FS PP-06,17,30	10,773	10,773	4,568	4,568	4	128	457	0.09
GY-PP-31 3RPG	Panelboard (25)	GY-DP-01 FS PP-07,18,31	13,099	13,099	5,607	5,607	4	128	457	0.11
GY-PP-32 3RPH	Panelboard (25)	GY-DP-01 FS PP-08,19,32	10,305	10,305	4,359	4,359	4	101	457	0.08
GY-PP-33 3RPJ	Panelboard (25)	GY-DP-01 FS PP-09,20,33	5,998	5,998	2,077	2,077	8	128	457	0.08
GY-PP-34 3RPK	Panelboard (25)	GY-DP-01 FS PP-10,21,34	5,293	5,293	2,161	2,161	8	101	457	0.08
GY-PP-35 3RPL	Panelboard (25)	GY-DP-01 FS PP-11,22,35	4,281	4,281	1,733	1,733	8	101	457	0.06



1	ISSUED AS FINAL	A.T.	A.Z.	2023.02.21
0		A.T.	A.Z.	2022.11.23
Revision		By	Appd	YYYY.MM.DD
A	ISSUED WITH REPORT	A.T.	A.Z.	2022.11.23
Issued		By	Appd	YYYY.MM.DD

File Name: MUN_GUY — Dwn. A.T. — Dsgn. — Chkd. A.Z. — 2022.11.23 YYYY.MM.DD

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ST. JOHN'S, NL

Title

BURTON'S POND APARTMENTS - GUY POWER SYSTEM MODEL

Project No. 133411869 — Scale NONE

Revision 1 — Sheet 1 of 2 — Drawing No. **G1**

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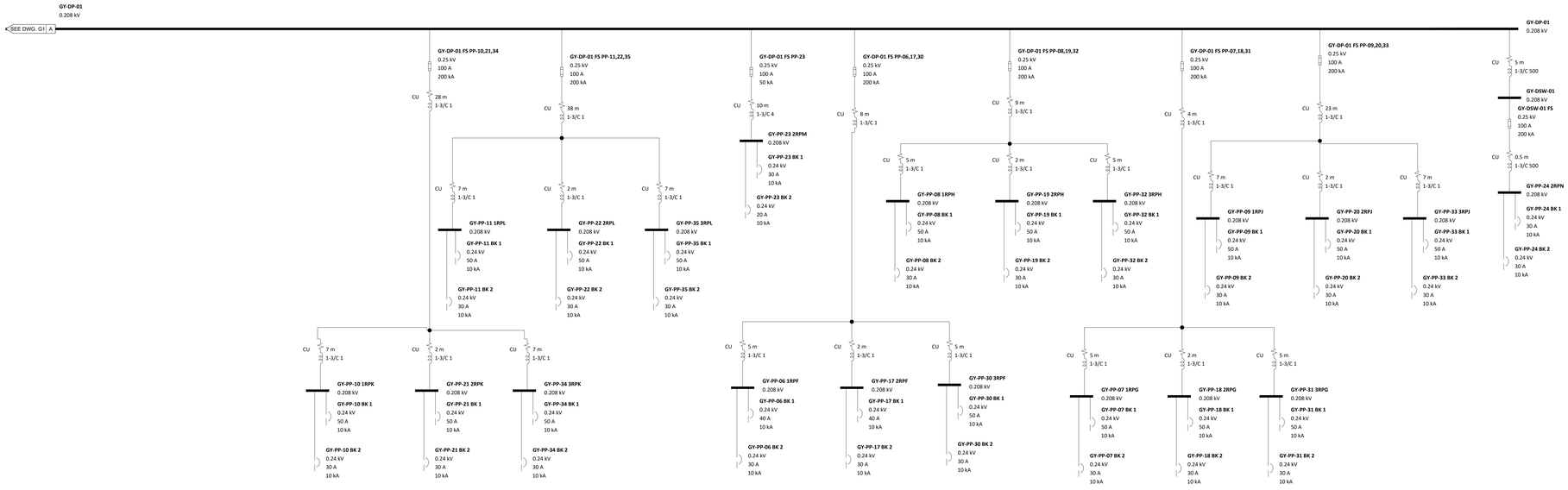

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A	ISSUED WITH REPORT	A.T.	A.Z.	2022.11.23
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BURTON'S POND APARTMENTS - GUY POWER SYSTEM MODEL

Project No.	Scale
133411869	NONE
Revision: 1	Sheet: 2 of 2
Drawing No.	**G2**

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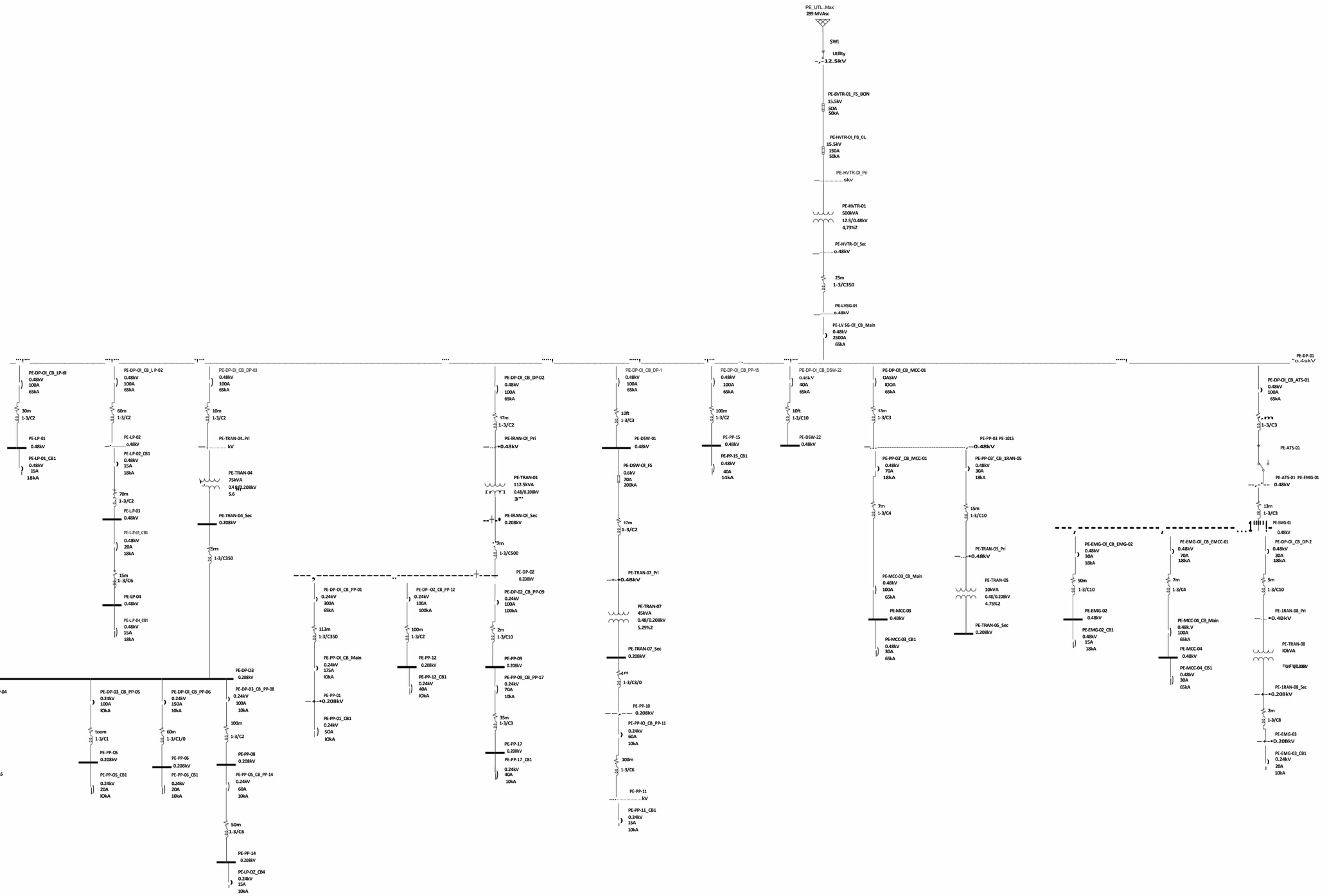

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A	ISSUED FOR REVIEW	D.T.	A.Z.	2023.07.31

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By	Appd	YYYY.MM.DD
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File Name: MUN_PHYSICAL_EDUCATION

D.T.	A.Z.	2023.07.31
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ST. JOHN'S, NL

Title

PHYSICAL EDUCATION POWER SYSTEM MODEL

Project No.	Scale
133411869	*NONE*

Revision	Sheet	*Drawing No.*
0	1 of 1	**GI**

Arc Flash Report - IEEE 1584 Calculations
Worst case Based on All Scenarios

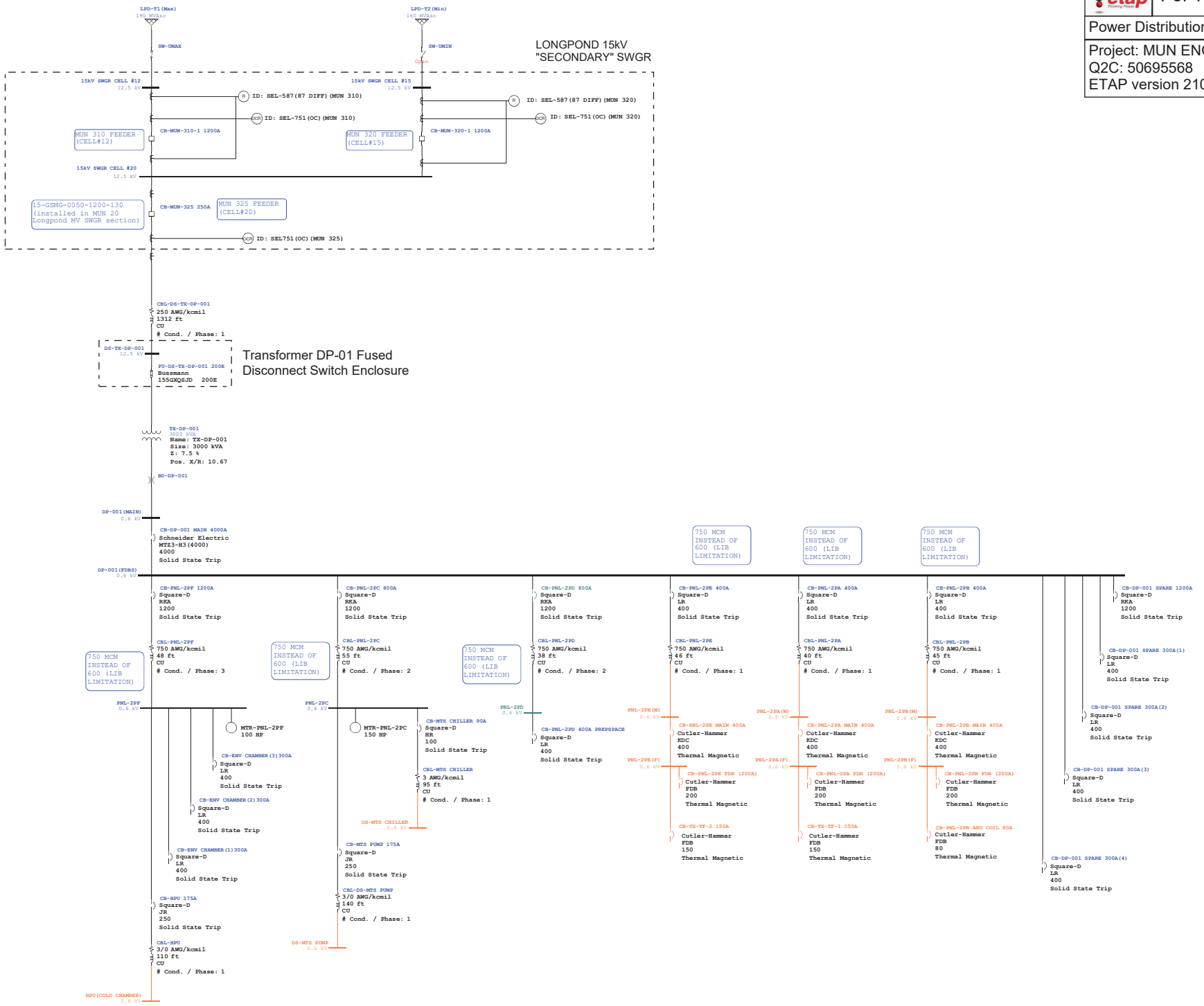
Bus Name	Equipment Type (Bus Gap (mm))	Upstream Protective Device Clearing Fault	Bolted Fault Current @ Bus	Bolted Fault Current Through Prot. Device	Arcing Fault Current @ Bus	Arcing Fault Current Through Prot. Device	Clearing Time (ms)	Arc Flash Hazard Analysis Results FPB (mm)	WD (mm)	IE (cal/cm²)
12,500 Volt Busses										
PE-HVTR-01_Pri	Cable Bus (153)	PE-HVTR-01_FS_CL	13,348	13,348	12,336	12,336	10	406	914	0.32
480 Volt Busses										
PE-ATS-01 PE-DP-01	Panelboard (25)	PE-DP-01_CB_ATS-01	9,346	9,346	7,124	7,124	50	357	457	0.80
PE-ATS-01 PE-EMG-01	Panelboard (25)	PE-DP-01_CB_ATS-01	9,346	9,346	7,124	7,124	50	357	457	0.80
PE-DP-01	Switchboard (32)	PE-BVTR-01_FS_BON	10,723	412	7,995	307	2,000	4,039	610	24.67
PE-DSW-01	Panelboard (25)	PE-DP-01_CB_DP-1	10,197	10,197	8,188	8,188	50	433	457	1.10
PE-DSW-22	Panelboard (25)	PE-DP-01_CB_DSW-22	8,409	8,409	6,695	6,695	17	152	457	0.20
PE-EMG-01	Panelboard (25)	PE-DP-01_CB_ATS-01	7,402	7,402	5,368	5,368	50	457	457	1.18
PE-EMG-02	Panelboard (25)	PE-EMG-01_CB_EMG-02	702	702	429	429	445	357	457	0.77
PE-HVTR-01_Sec	Cable Bus (32)	PE-BVTR-01_FS_BON	12,278	471	8,731	335	2,000	3,633	610	45.28
PE-LP-01	Panelboard (25)	PE-DP-01_CB_LP-01	6,958	6,958	5,498	5,498	50	329	457	0.66
PE-LP-02	Panelboard (25)	PE-DP-01_CB_LP-02	4,847	4,847	3,474	3,474	50	357	457	0.77
PE-LP-03	Panelboard (25)	PE-LP-02_CB1	2,749	2,749	2,125	2,125	17	101	457	0.07
PE-LP-04	Panelboard (25)	PE-LP-03_CB1	2,233	2,233	1,724	1,724	17	76	457	0.06
PE-LVSG-01	Switchboard (32)	PE-BVTR-01_FS_BON	10,723	412	7,597	292	2,000	3,530	610	42.21
PE-MCC-03	Panelboard (25)	PE-PP-03'_CB_MCC-01	7,320	7,320	5,795	5,795	17	177	457	0.21
PE-MCC-04	Panelboard (25)	PE-EMG-01_CB_EMCC-01	6,403	6,403	5,043	5,043	17	152	457	0.18
PE-PP-03 PE-1015	Panelboard (25)	PE-DP-01_CB_MCC-01	8,536	8,536	6,219	6,219	50	482	457	1.38
PE-PP-15	Panelboard (25)	PE-DP-01_CB_PP-15	3,385	3,385	2,409	2,409	50	305	457	0.51
PE-TRAN-01_Pri	Cable Bus (25)	PE-DP-01_CB_DP-02	8,377	8,377	6,099	6,099	50	482	457	1.30
PE-TRAN-04_Pri	Cable Bus (25)	PE-DP-01_CB_DP-03	9,294	9,294	6,790	6,790	50	509	457	1.52
PE-TRAN-05_Pri	Cable Bus (25)	PE-PP-03'_CB_TRAN-05	3,231	3,231	2,298	2,298	17	177	457	0.17
PE-TRAN-07_Pri	Cable Bus (25)	PE-DSW-01_FS	7,935	7,935	5,767	5,767	10	204	457	0.26
PE-TRAN-08_Pri	Cable Bus (25)	PE-DP-01_CB_DP-2	5,113	5,113	3,670	3,670	17	229	457	0.28
208 Volt Busses										
PE-DP-02	Panelboard (32)	PE-DP-01_CB_DP-02	6,488	2,811	3,045	1,320	500	762	610	1.85

Arc Flash Report - IEEE 1584 Calculations
Worst case Based on All Scenarios

Bus Name	Equipment Type (Bus Gap (mm))	Upstream Protective Device Clearing Fault	Bolted Fault Current @ Bus	Bolted Fault Current Through Prot. Device	Arcing Fault Current @ Bus	Arcing Fault Current Through Prot. Device	Clearing Time (ms)	Arc Flash Hazard Analysis Results FPB (mm)	Arc Flash Hazard Analysis Results WD (mm)	Arc Flash Hazard Analysis Results IE (cal/cm²)
PE-DP-03	Panelboard (25)	PE-DP-01_CB_DP-03	3,147	1,364	1,474	639	500	482	457	1.39
PE-EMG-03	Panelboard (25)		380		153			457	457	1.20
PE-PP-01	Panelboard (25)	PE-DP-01_CB_DP-02	3,401	1,474	1,153	499	2,000	1,271	457	9.55
PE-PP-04	Panelboard (25)		1,940		773			457	457	1.20
PE-PP-05	Panelboard (25)		1,463		683			457	457	1.20
PE-PP-06	Panelboard (25)	PE-DP-01_CB_DP-03	2,055	891	690	299	718	585	457	2.01
PE-PP-08	Panelboard (25)		1,284		511			457	457	1.20
PE-PP-09	Panelboard (25)	PE-DP-02_CB_PP-09	5,137	5,137	2,095	2,095	21	177	457	0.19
PE-PP-10	Panelboard (25)	PE-DSW-01_FS	2,064	894	822	356	2,000	1,067	457	6.70
PE-PP-11	Panelboard (25)		596		239			457	457	1.20
PE-PP-12	Panelboard (25)		1,555		619			457	457	1.20
PE-PP-14	Panelboard (25)		704		282			457	457	1.20
PE-PP-16	Panelboard (25)		1,107		441			457	457	1.20
PE-PP-17	Panelboard (25)	PE-PP-09_CB_PP-17	2,456	2,456	827	827	733	661	457	2.54
PE-TRAN-01_Sec	Cable Bus (25)	PE-DP-01_CB_DP-02	6,893	2,987	2,852	1,236	500	991	457	5.92
PE-TRAN-04_Sec	Cable Bus (25)	PE-DP-01_CB_DP-03	3,171	1,374	1,272	551	500	686	457	2.66
PE-TRAN-05_Sec	Cable Bus (25)		547		219			457	457	1.20
PE-TRAN-07_Sec	Cable Bus (25)	PE-DSW-01_FS	2,096	908	835	362	2,000	1,067	457	6.85
PE-TRAN-08_Sec	Cable Bus (25)		384		155			457	457	1.20

Power Distribution

Project: MUN ENGG Annex
Q2C: 50695568
ETAP version 2102



5.7 Worst Case Arc Flash Hazard Table with Proposed Settings

Schneider Electric

Table 5.7 - FLASH HAZARD TABLE FOR PROPOSED SETTINGS

MUN ENGG ANNEX: 50695568

Memorial University of Newfoundland, St. John's, NL A1C 5S7

Date: August 19, 2024

Bus Name	Protective Device Name	kV	Total Ibf at FCT (kA)	Ia at FCT (kA)	Final Fault Clearing Time (sec)	Trip Time (sec)	Breaker Opening Time (sec)	Equipment Type	Electrode Config.	Bus Gap (mm)	Arc Flash Boundary (in)	Working Distance (in)	Incident Energy (cal/cm^2)	Worst Case Scenario
DP-001(FDRS)	CB-DP-001 MAIN 4000A	0.6	35.26	27.2	0.2	0.2		AF Switchboard	HCB	25	81	18	25.2	Utility Max
DP-001(MAIN)	CB-MUN-325 250A	0.6	35.26	27.2	0.424	0.341	0.083	AF Switchboard	HCB	25	116	18	53.1	Utility Max
DS-MTS CHILLER	CB-MTS CHILLER 90A	0.6	12.34	10.67	0.05	0.05		AF LV Equipment	VCBB	25	20	18	1.5	Utility Max
DS-MTS PUMP	CB-MTS PUMP 175A	0.6	18.12	15.82	0.05	0.05		AF LV Equipment	VCBB	25	26	18	2.4	Utility Max
DS-TX-DP-001	CB-MUN-325 250A	12.5	8.26	7.42	0.103	0.02	0.083	AF 15kV Switchgear	HCB	152	49	36	2.0	Utility Max
HPU(COLD CHAMBER)	CB-HPU 175A	0.6	20.95	18.29	0.05	0.05		AF LV Equipment	VCBB	25	29	18	2.8	Utility Max
PNL-2PA	CB-PNL-2PA 400A	0.6	32.32	27.63	0.05	0.05		AF Power Panel	VCBB	25	34	18	3.8	Utility Max
PNL-2PB	CB-PNL-2PB 400A	0.6	31.87	27.28	0.05	0.05		AF Power Panel	VCBB	25	33	18	3.7	Utility Max
PNL-2PC	CB-PNL-2PC 800A	0.6	33.61	28.61	0.05	0.05		AF Power Panel	VCBB	25	34	18	3.9	Utility Max
PNL-2PD	CB-PNL-2PD 800A	0.6	34.36	29.16	0.05	0.05		AF Power Panel	VCBB	25	35	18	4.0	Utility Max
PNL-2PE	CB-PNL-2PE 400A	0.6	31.78	27.21	0.05	0.05		AF Power Panel	VCBB	25	33	18	3.7	Utility Max
PNL-2PF	CB-PNL-2PF 1200A	0.6	26.54	19.11	0.14	0.14		AF Power Panel	VCB	25	44	18	5.0	Utility Min

Cases:

UTIL MAX — Maximum fault supplied by utility, all motors running, with proposed protective device settings and utility transformer impedance at 6.5%.

UTIL MIN — Minimum fault supplied by utility, all motors off, with proposed protective device settings and utility transformer impedance at 8.5%.

Incident Energy <= 12 cal/cm^2

12 cal/cm^2 < Incident Energy < 40 cal/cm^2

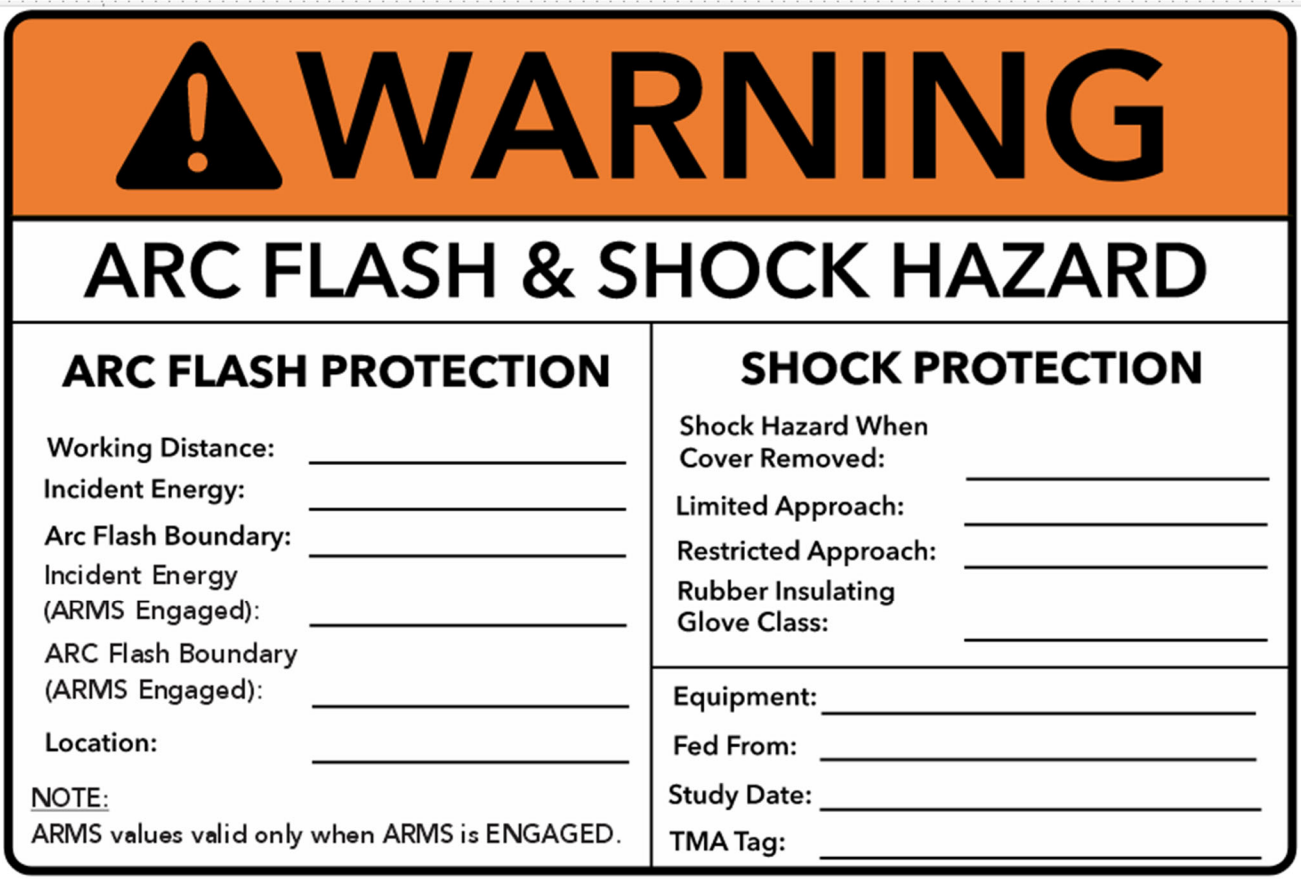
Incident Energy >= 40 cal/cm^2

APPENDIX K – MUN ARC FLASH TEMPLATES

Arc Flash Labels for Panels

VDP_TAG	VDP_INCIDENT	VDP_WORKING	VDP_ARCFLASH	VDP_NOMINAL	VDP_PERFORMED	VDP_Limited	VDP_Restricted	VDP_Gloves	VDP_Equipment	VDP_Location	VDP_Fed From
SP-DP-01	51.69 cal/cm²	610mm (24in)	6419mm (253in)	208VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Switchboard	SP-004	SP-DSW-02_Fuse_SP-DSW-02
SP-DSW-01	0.18 cal/cm²	457mm (18in)	138mm (5in)	600VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	SP-002	SP-DSW-08_Fuse_SP-DSW-08
SP-DSW-02	0.27 cal/cm²	457mm (18in)	179mm (7in)	600VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	SP-002	SP-LVSG-01_Fuse_SP-LVSG-01
SP-DSW-03	0.27 cal/cm²	457mm (18in)	178mm (7in)	600VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	SP-002	SP-LVSG-01_Fuse_SP-LVSG-01
SP-DSW-04	0.26 cal/cm²	457mm (18in)	177mm (7in)	600VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	SP-002	SP-LVSG-01_Fuse_SP-LVSG-01
SP-DSW-05	72.66 cal/cm²	457mm (18in)	5958mm (235in)	208VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	SP-003	SP-DSW-02_Fuse_SP-DSW-02
SP-DSW-06	0.15 cal/cm²	457mm (18in)	126mm (5in)	600VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	SP-004	SP-DSW-04_Fuse_SP-DSW-04
SP-DSW-08	0.19 cal/cm²	457mm (18in)	142mm (6in)	600VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	SP-002	SP-DSW-03_Fuse_SP-DSW-03
SP-DSW-09	115.74 cal/cm²	457mm (18in)	7974mm (314in)	208VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	SP-ROOF	SP-DSW-02_Fuse_SP-DSW-02
SP-DSW-10	0.04 cal/cm²	457mm (18in)	58mm (2in)	208VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	SP-ROOF	SP-PP-11_CB_DSW-10
SP-DSW-11	0.04 cal/cm²	457mm (18in)	58mm (2in)	208VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	SP-002	SP-PP-11_CB_DSW-11
SP-DSW-12	1.32 cal/cm²	457mm (18in)	485mm (19in)	208VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	SP-2000A	SP-PP-11_CB_DSW-12
SP-DSW-13	0.05 cal/cm²	457mm (18in)	61mm (2in)	208VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	SP-2000A	SP-PP-11_CB_DSW-13
SP-LVSG-01	0.18 cal/cm²	610mm (24in)	187mm (7in)	600VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Switchgear	SP-4C02	GH-DP-01_CB_SPENCER HALL
SP-PP-01	2.41 cal/cm²	457mm (18in)	708mm (28in)	208VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	SP-002	SP-DP-01_Fuse_SP-PP-01
SP-PP-02	0.25 cal/cm²	457mm (18in)	173mm (7in)	208VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	SP-002	SP-DP-01_Fuse_SP-PP-02
SP-PP-03	0.75 cal/cm²	457mm (18in)	342mm (13in)	208VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	SP-002	SP-DP-01_Fuse_SP-PP-03
SP-PP-04	0.46 cal/cm²	457mm (18in)	249mm (10in)	208VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	SP-002	SP-DP-01_Fuse_SP-PP-04
SP-PP-05	0.04 cal/cm²	457mm (18in)	55mm (2in)	208VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	SP-002	SP-DP-01_Fuse_SP-PP-05
SP-PP-06	0.03 cal/cm²	457mm (18in)	44mm (2in)	208VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	SP-GR	SP-DP-01_Fuse_SP-PP-06
SP-PP-07	0.04 cal/cm²	457mm (18in)	54mm (2in)	208VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	SP-ROOF	SP-DP-01_Fuse_SP-PP-07
SP-PP-08	0.24 cal/cm²	457mm (18in)	167mm (7in)	208VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	SP-ROOF	SP-DP-01_Fuse_SP-PP-08
SP-PP-09	0.15 cal/cm²	457mm (18in)	126mm (5in)	208VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	SP-1C02	SP-DP-01_Fuse_SP-PP-09
SP-PP-10	0.29 cal/cm²	457mm (18in)	188mm (7in)	208VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	SP-1C02	SP-DP-01_Fuse_SP-PP-10
SP-PP-11	5.87 cal/cm²	457mm (18in)	1234mm (49in)	208VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	SP-2C02	SP-DP-01_Fuse_SP-PP-11
SP-PP-12	0.03 cal/cm²	457mm (18in)	44mm (2in)	208VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	SP-2C02	SP-DP-01_Fuse_SP-PP-12
SP-PP-13	0.06 cal/cm²	457mm (18in)	71mm (3in)	208VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	SP-3001	SP-DP-01_Fuse_SP-PP-13
SP-PP-14	0.22 cal/cm²	457mm (18in)	156mm (6in)	208VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	SP-3001	SP-DP-01_Fuse_SP-PP-14
SP-PP-15	0.14 cal/cm²	457mm (18in)	120mm (5in)	208VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	SP-3009	SP-DP-01_Fuse_SP-PP-15
SP-PP-17	0.11 cal/cm²	457mm (18in)	103mm (4in)	208VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	SP-3009	SP-DP-01_Fuse_SP-PP-17
SP-PP-18	0.03 cal/cm²	457mm (18in)	42mm (2in)	208VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	SP-3009	SP-DP-01_Fuse_SP-UPS-01
SP-SPT-01	0.27 cal/cm²	457mm (18in)	179mm (7in)	600VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Panelboard	SP-4C02	SP-LVSG-01_Fuse_SP-LVSG-01
SP-TRAN-01-HV	0.18 cal/cm²	457mm (18in)	139mm (5in)	600VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	SP-4014	SP-DSW-02_Fuse_SP-DSW-02
SP-TRAN-01-LV	31.55 cal/cm²	457mm (18in)	3535mm (139in)	208VAC	Friday, July 25, 2025	1.1m (42in)	305mm (12in)	0	Cable Bus	SP-4014	SP-DSW-02_Fuse_SP-DSW-02

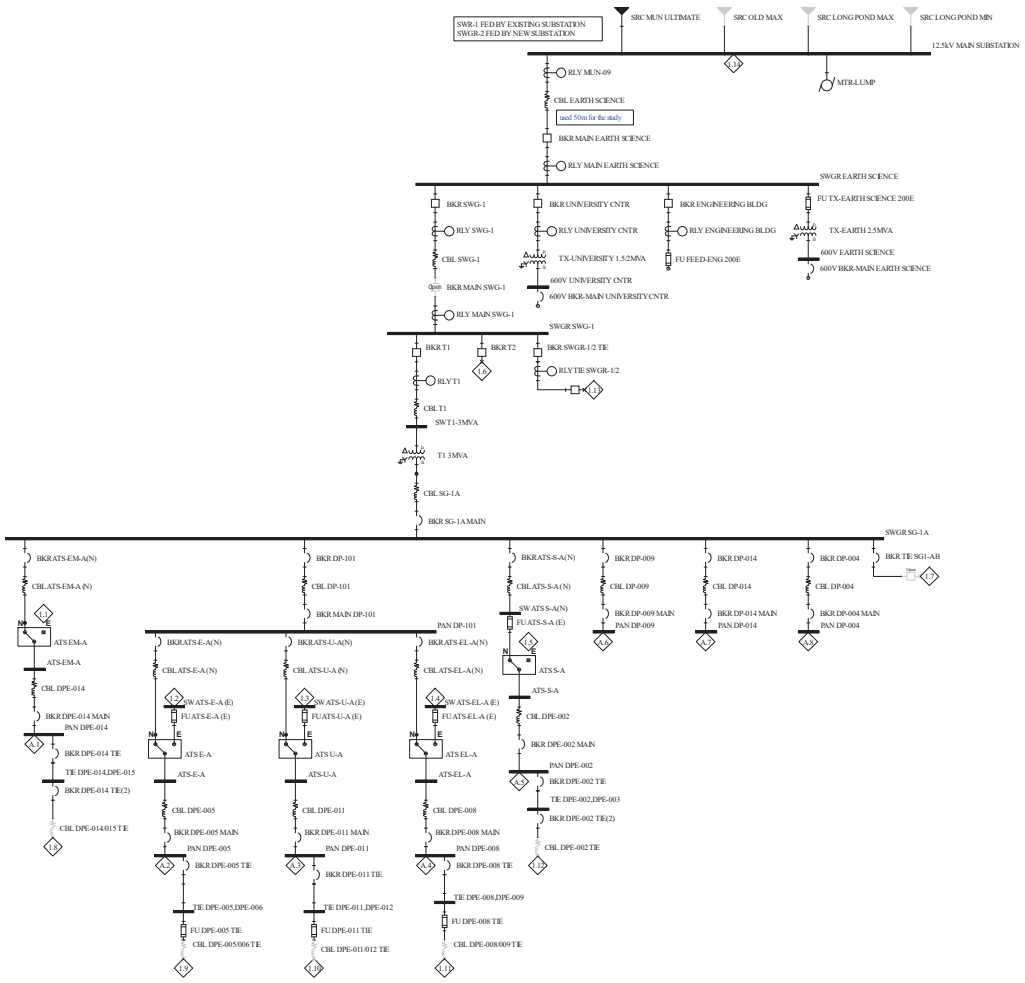
Blank template will be provided upon award. Information filled in to table for demonstrative purposes. The information in the tabel is used by Memorial University to generate arc flash labels.



Printing of arc flash stickers will be completed by Memorial University. Label template is provided for demonstrative purposes.

APPENDIX L – SKM/EASYPOWER MODELS

2.4 System Single Line Diagram (SKM Study Model)



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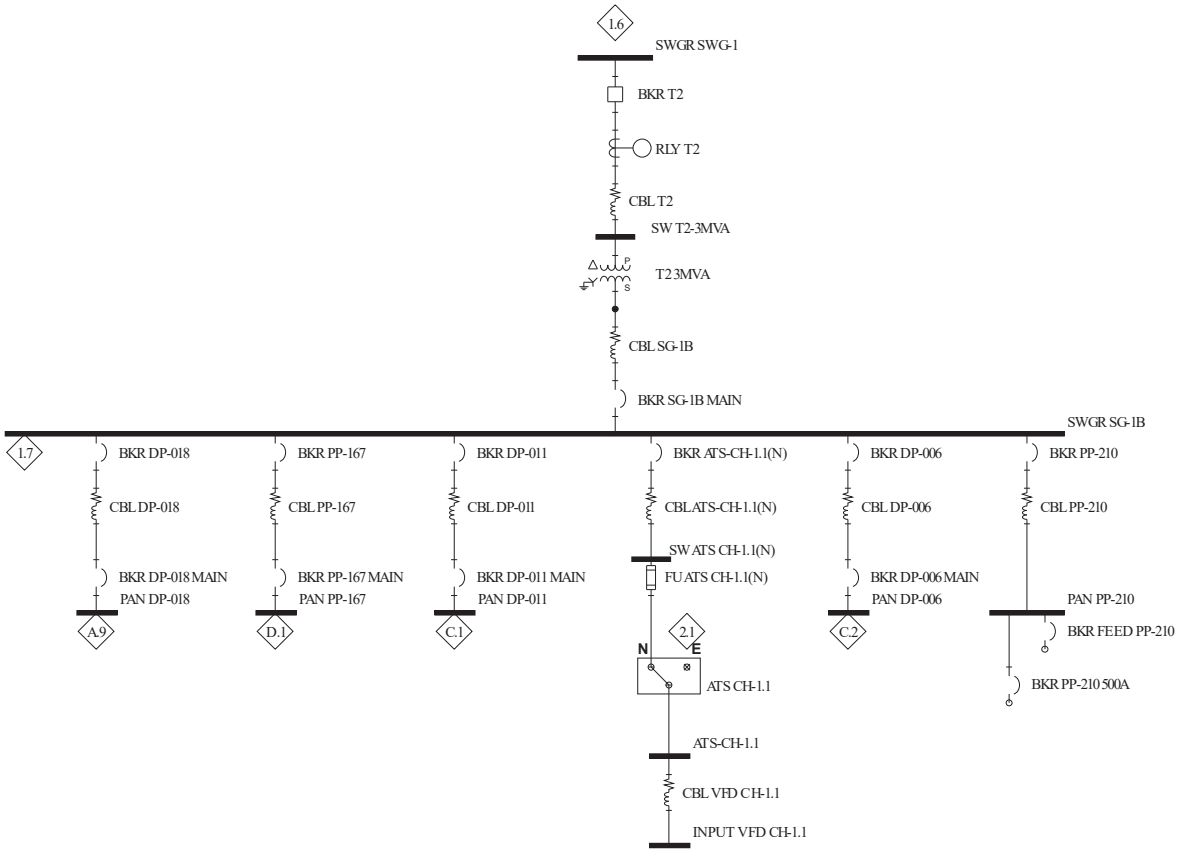
	Project #: Q2C-38187869	Date: February 22, 2021
	Drawing Title: SLD01.1 - Normal Operation	Author: Kyriakos Gogas



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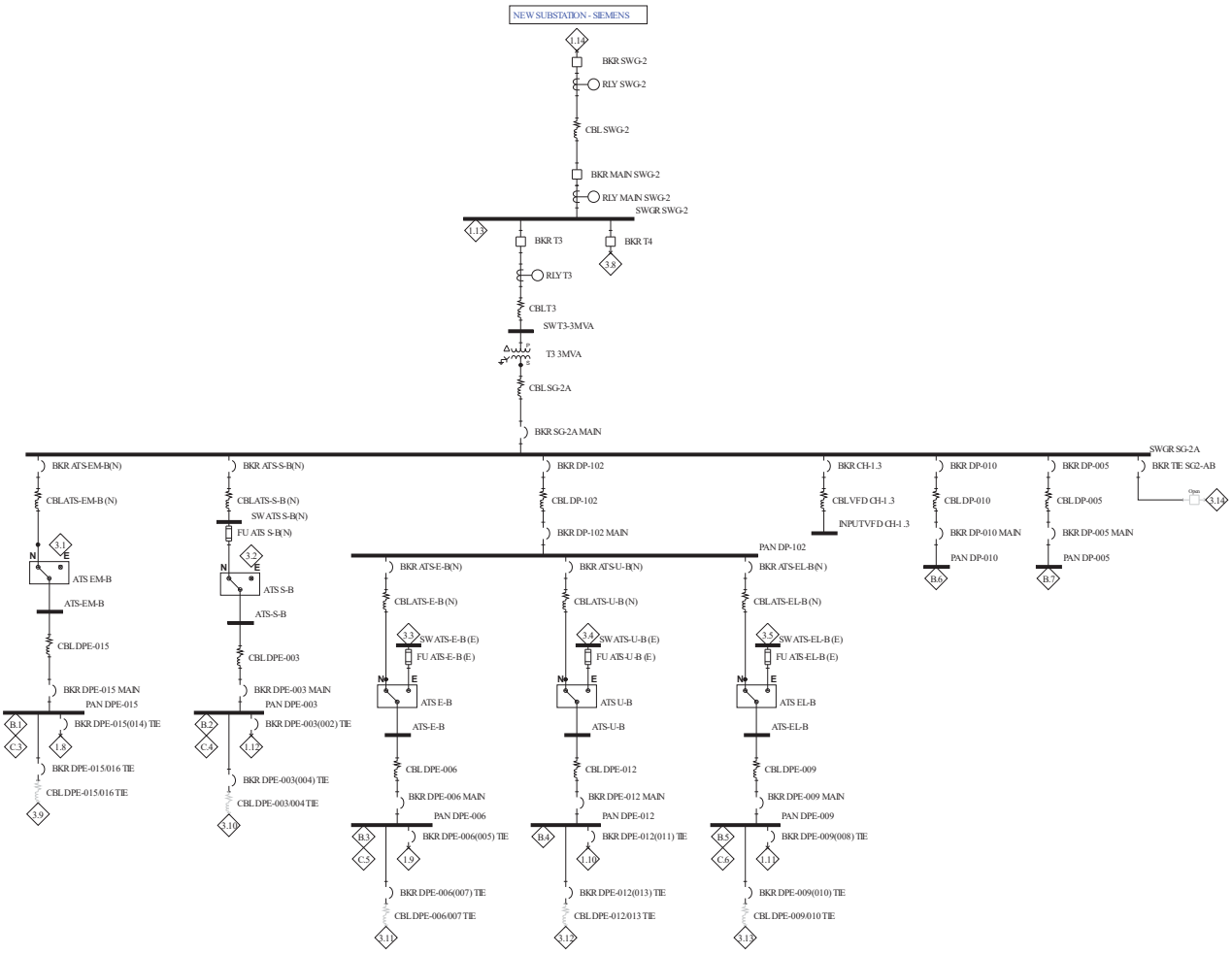

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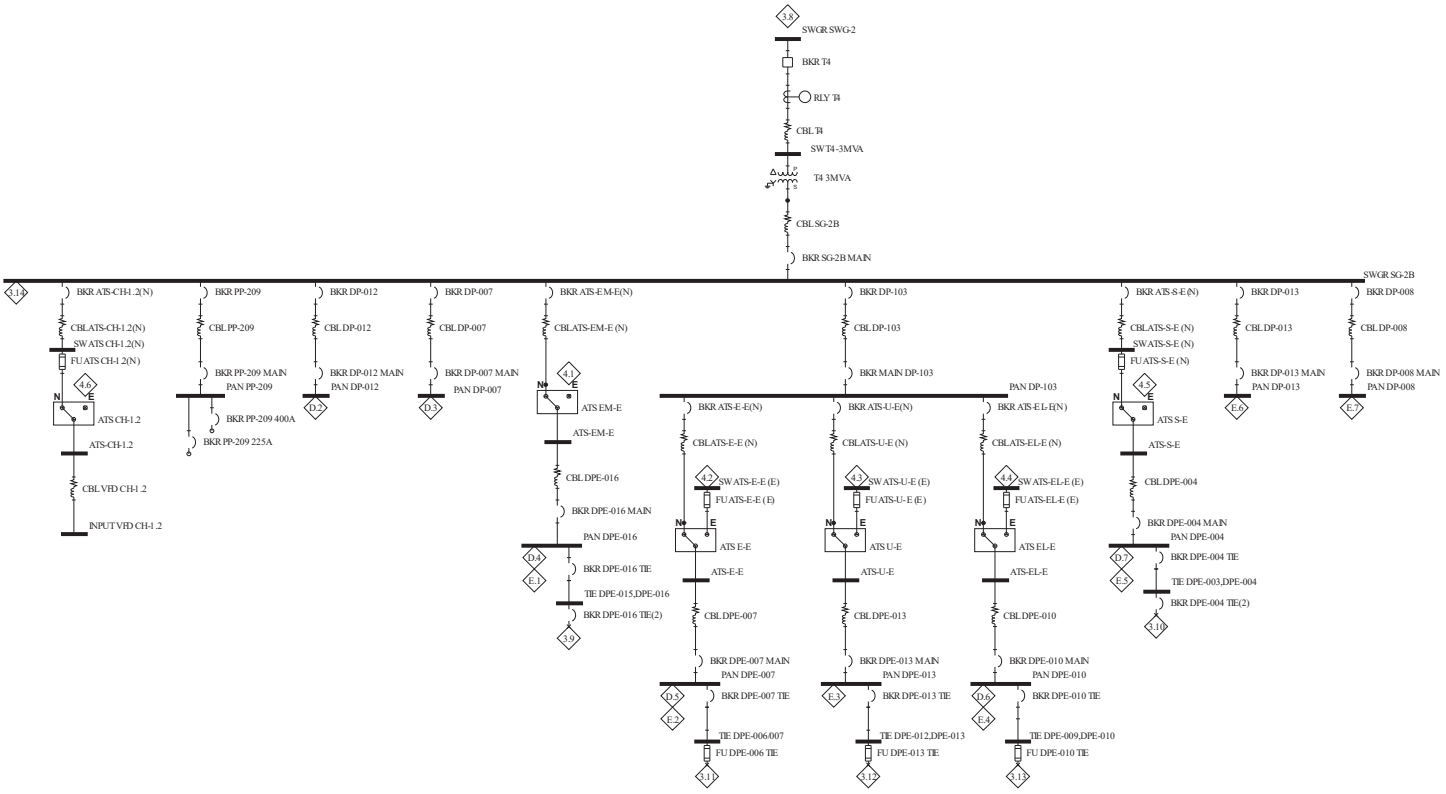

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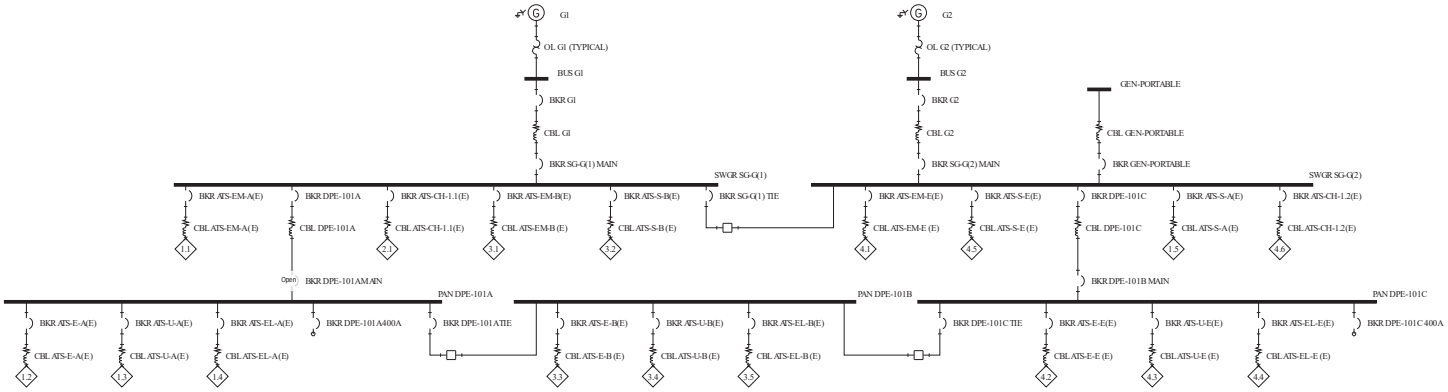

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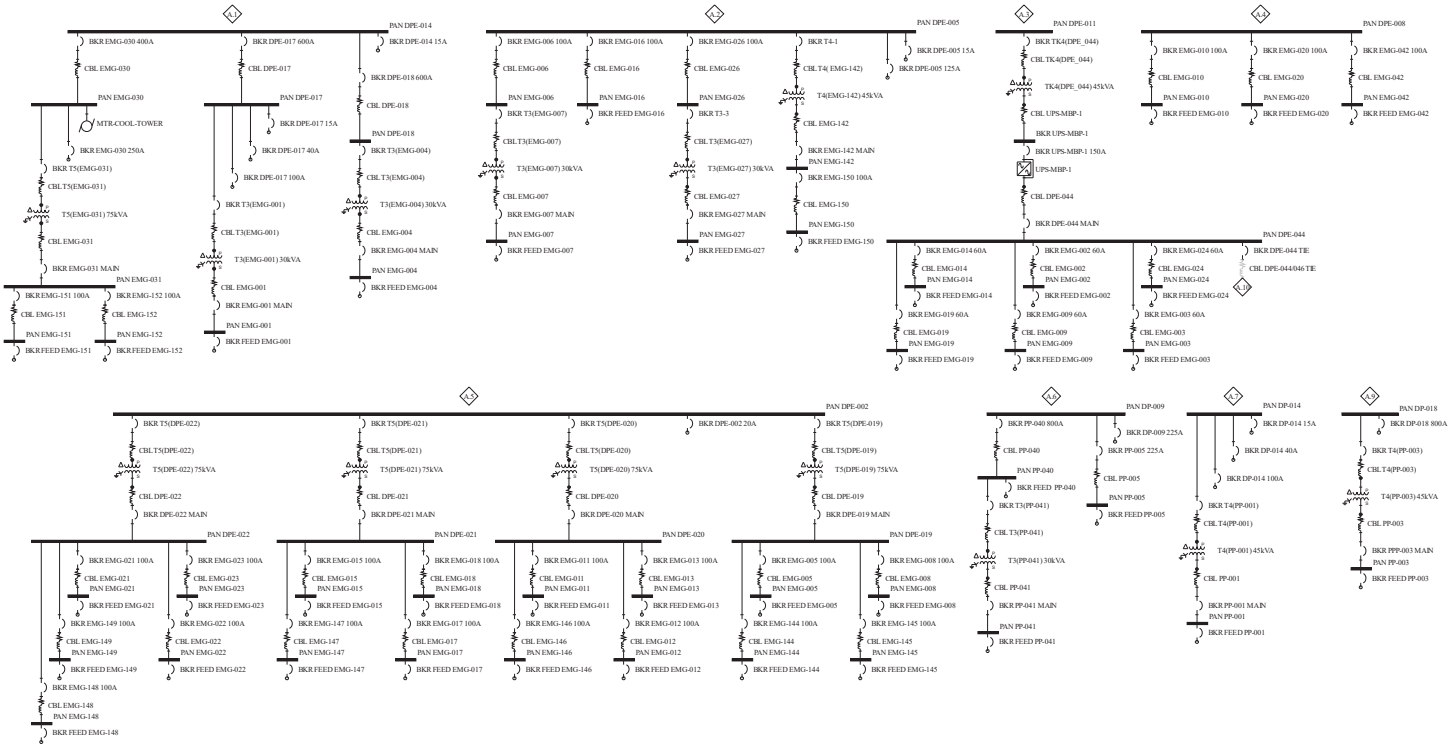

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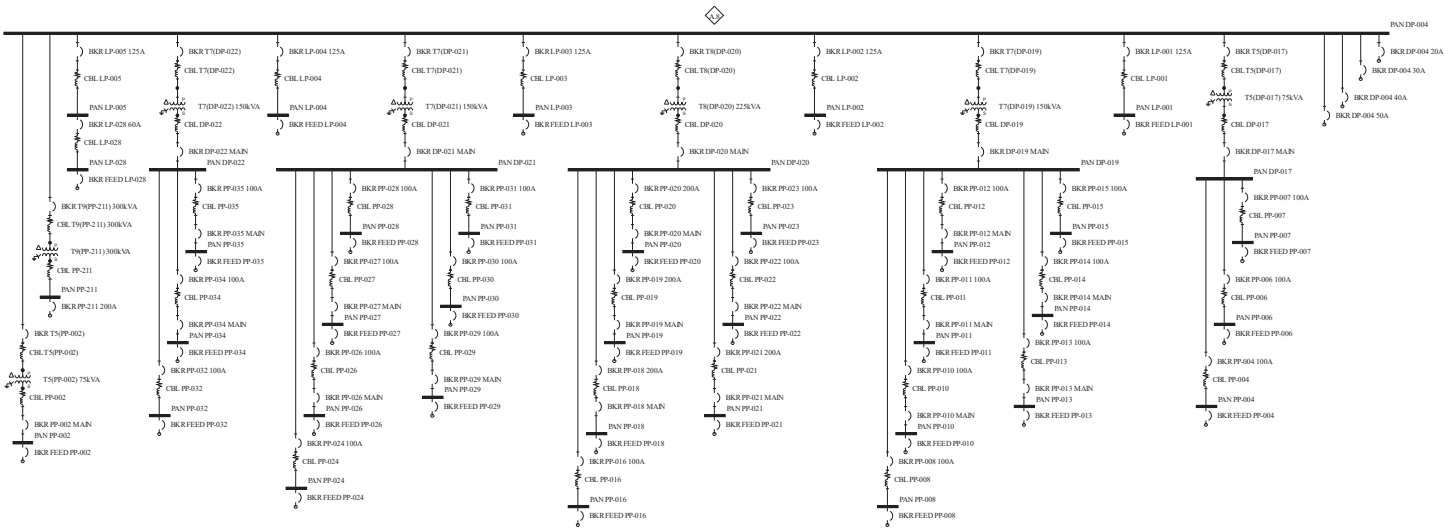

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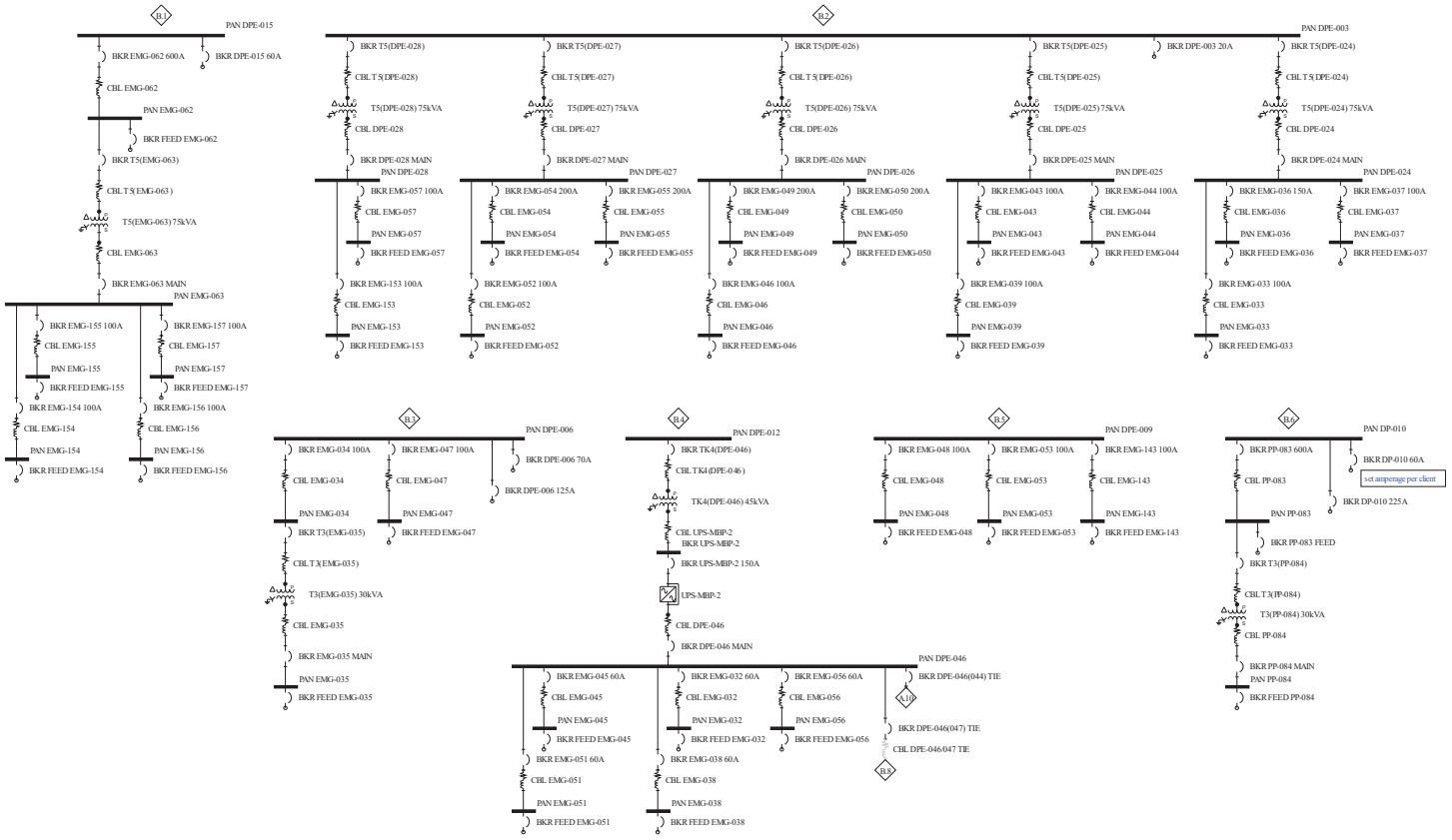

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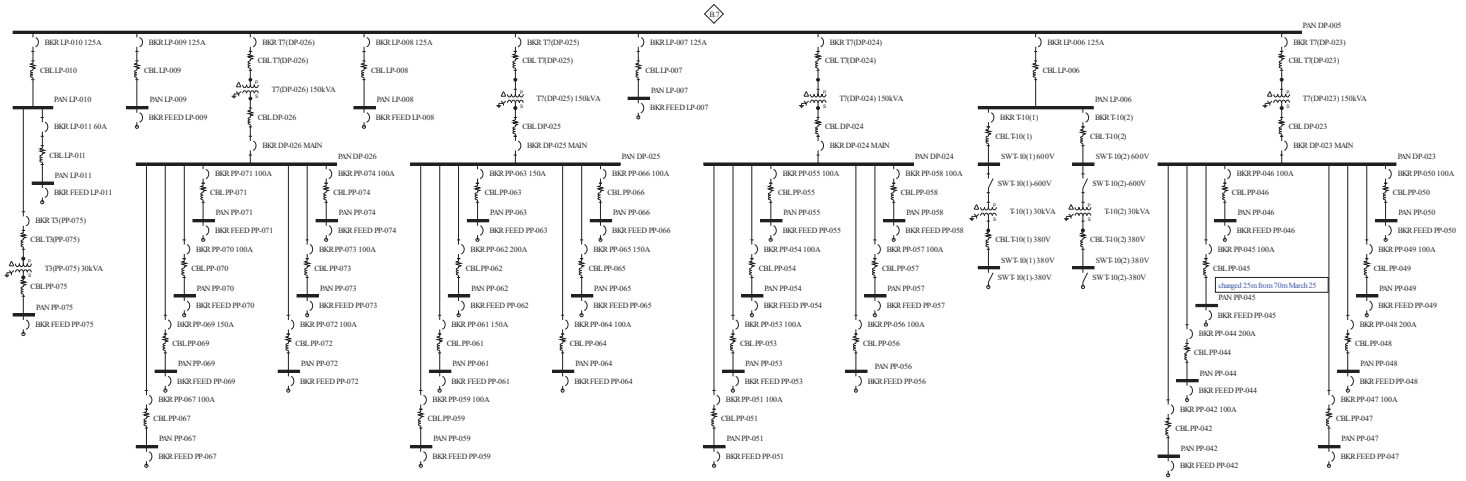

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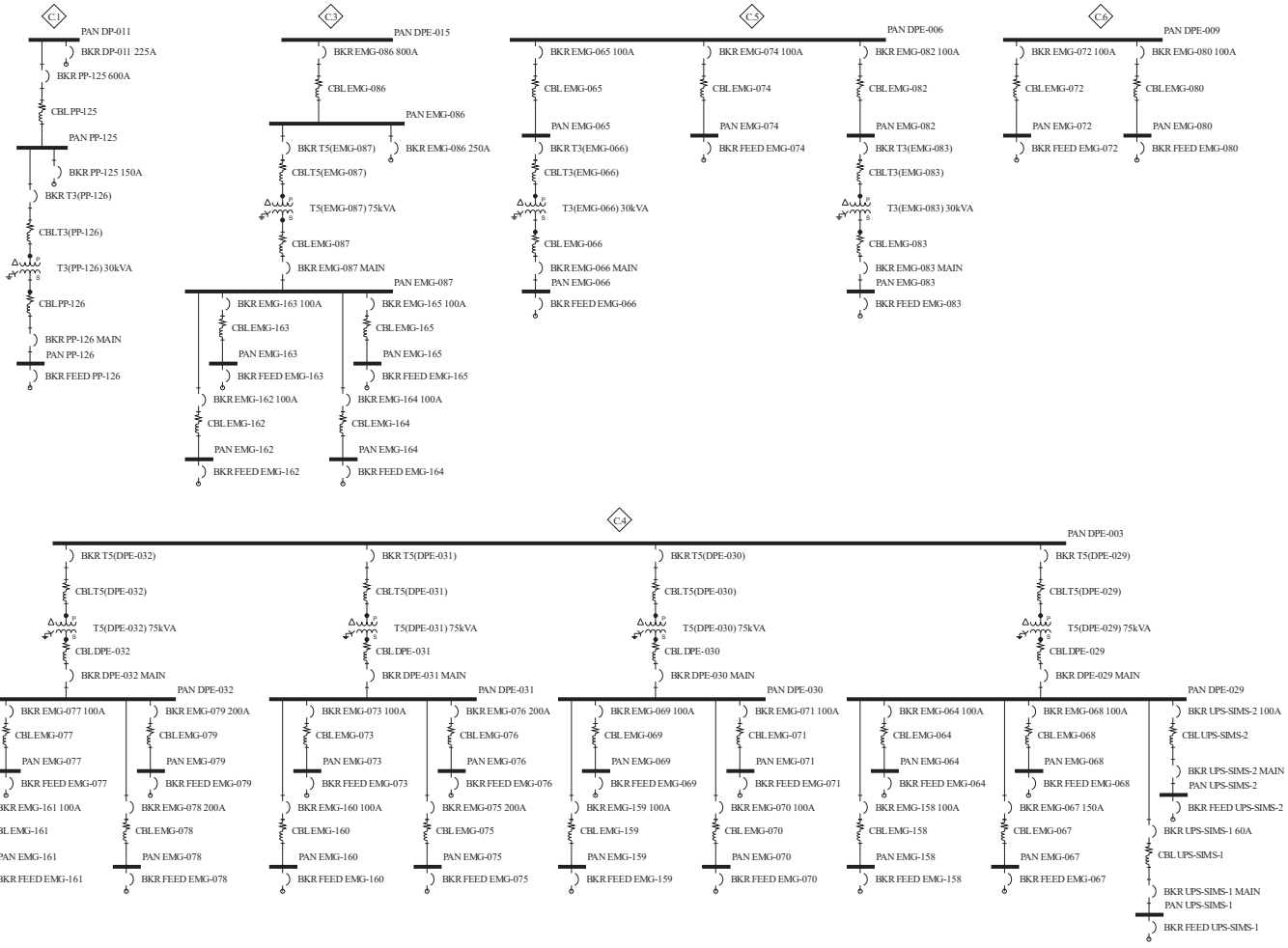

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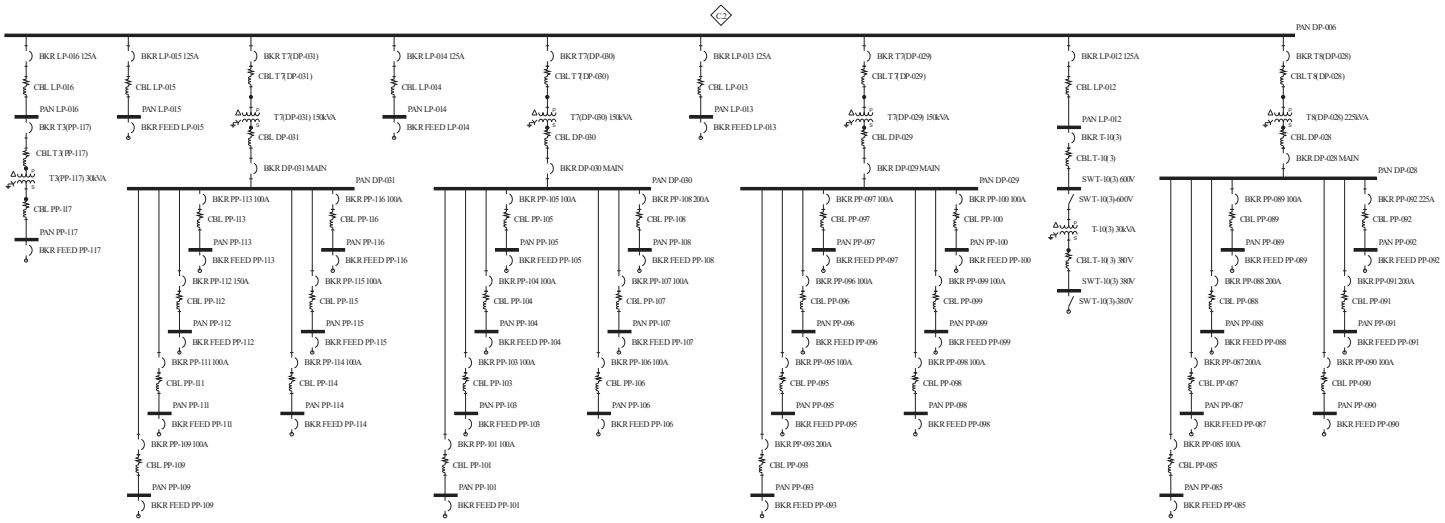

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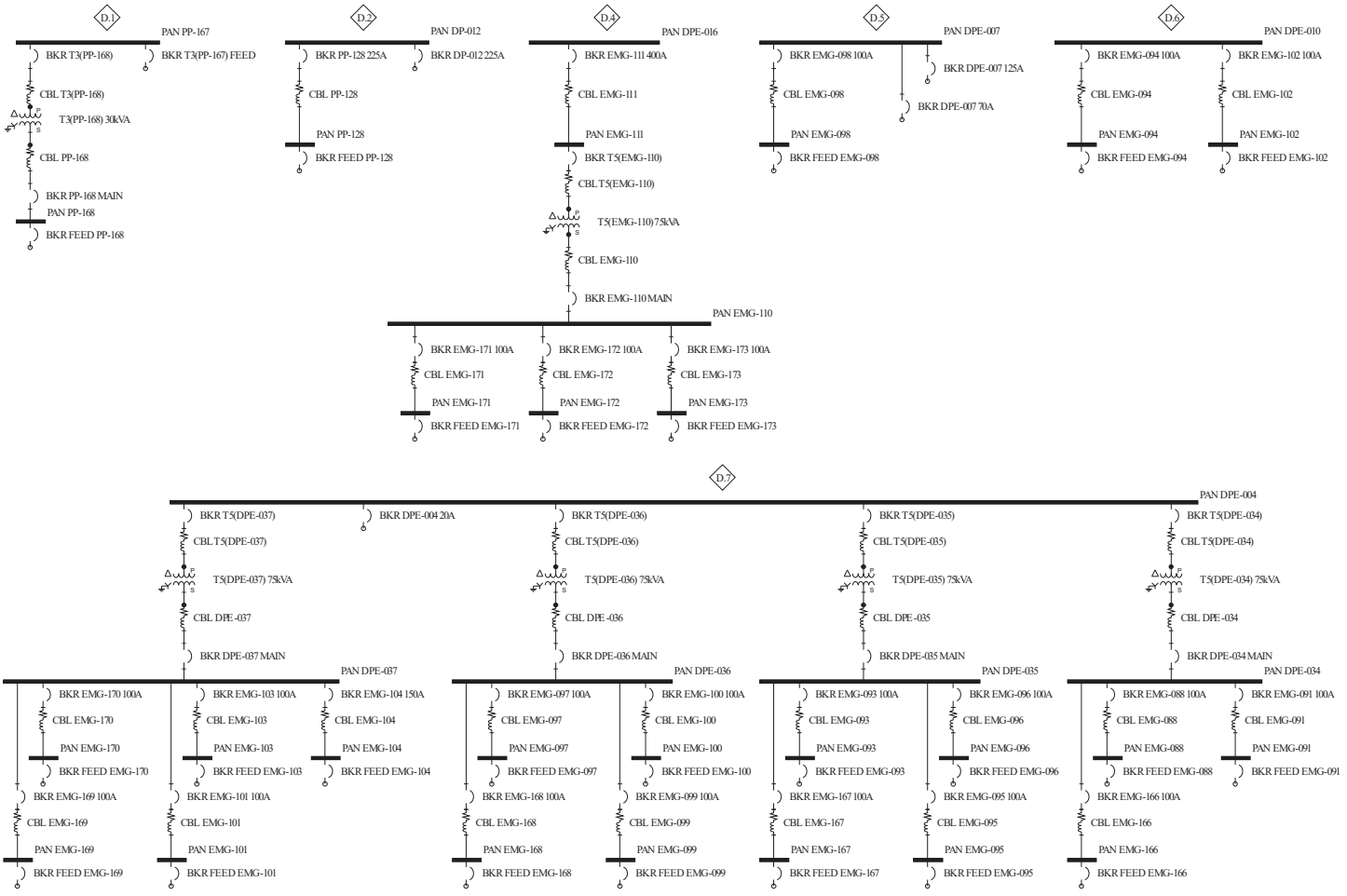

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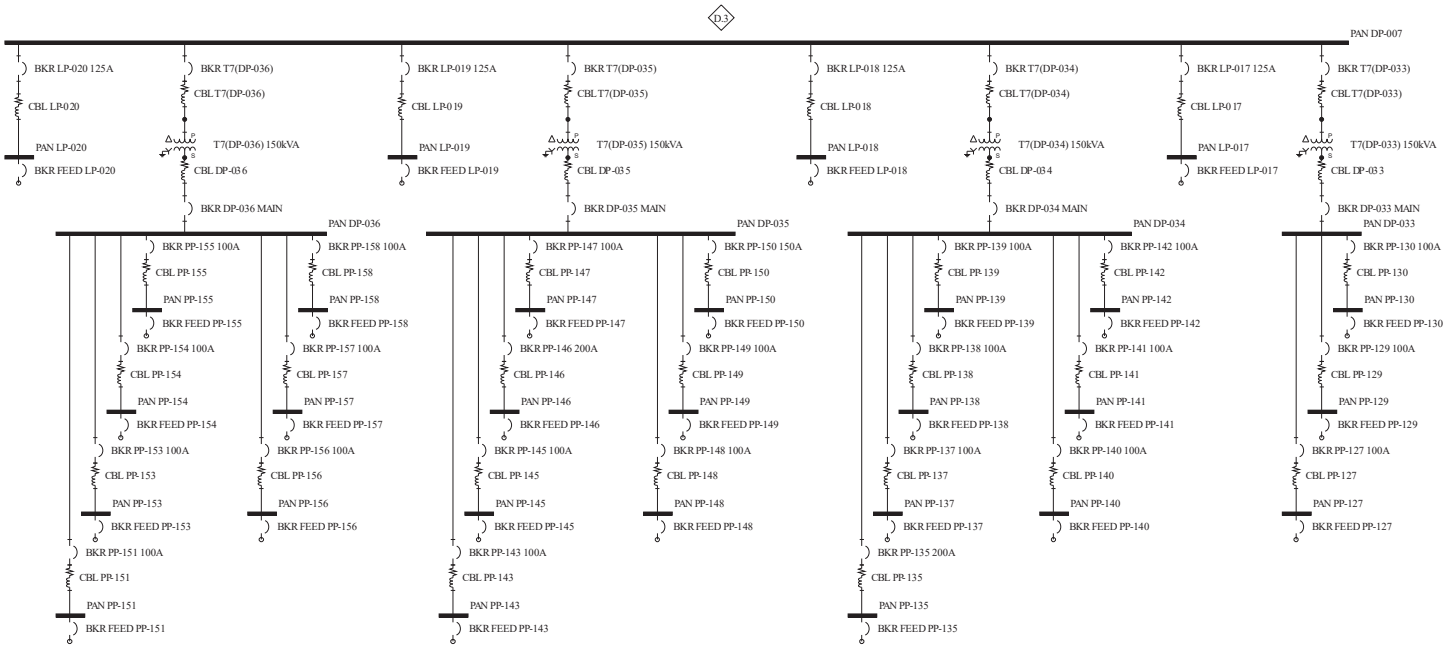

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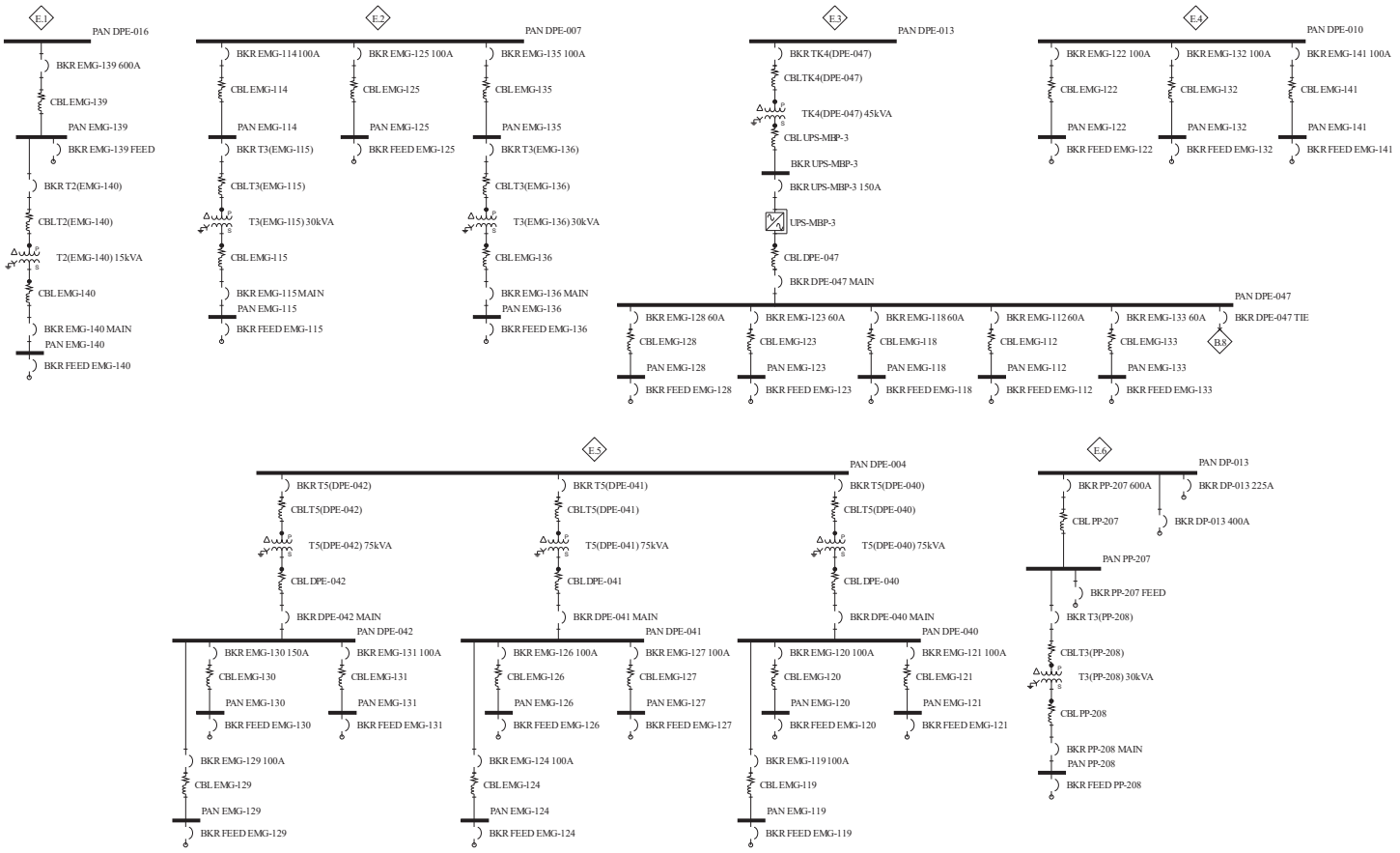

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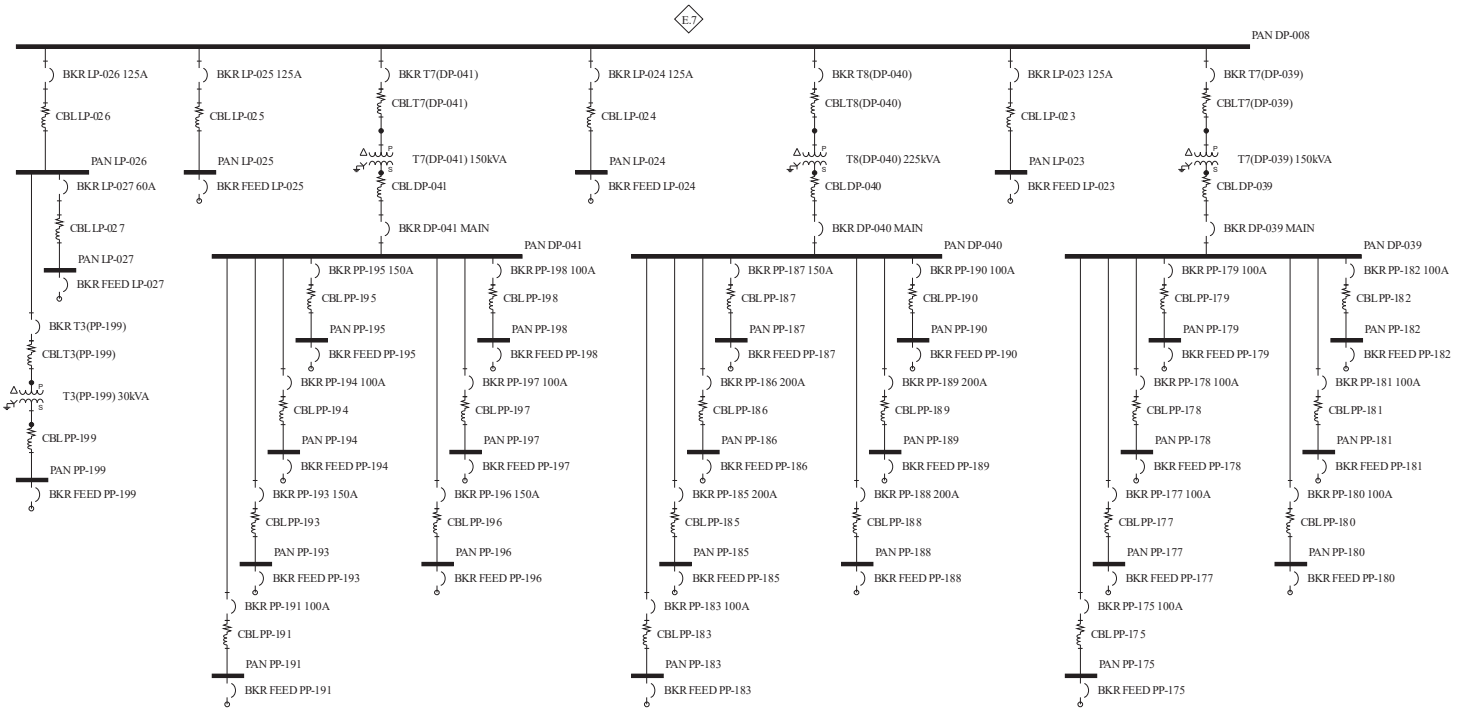

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	Drawing Title: SLD0E.2 - E Riser — Author: Kyriakos Gogas	

5.7 Worst Case Arc Flash Hazard Table with Proposed Settings

5.7.1 Normal - Maintenance OFF

Schneider Electric

Table 5.7 - FLASH HAZARD TABLE FOR PROPOSED SETTINGS

MUN CORE SCIENCE

Date: March 1, 2021

Bus Name	Protective Device Name	kV	Bus Bolted Fault (kA)	Prot. Dev. Bolted Fault (kA)	Prot. Dev. Arcing Fault (kA)	Trip / Delay Time (sec)	Breaker Opening Time (sec)	Equip. Category	BusBar Config	Gap (mm)	Arc Flash Boundary (in)	Working Distance (in)	Incident Energy (cal/cm2)	Analysis Notes / Worse Case Scenario
ATS-CH-1.1	BKR ATS-CH-1.1(E)	0.6	11.20	11.20	4.00	2		AF LV Equipment	VCBB	25	98.80	18.00	21.98	(*N3) (*N9) (*N16) (*N25d) (*S7)
ATS-CH-1.2	BKR ATS-CH-1.2(E)	0.6	11.11	11.11	3.99	2		AF LV Equipment	VCBB	25	98.53	18.00	21.88	(*N3) (*N9) (*N16) (*N25d) (*S7)
ATS-E-A	BKR ATS-E-A(N)	0.6	16.94	16.94	14.77	0.0552		AF LV Equipment	VCBB	25	26.45	18.00	2.41	(*S0)
ATS-E-B	BKR ATS-E-B(N)	0.6	16.44	16.44	14.33	0.0556		AF LV Equipment	VCBB	25	26.06	18.00	2.34	(*S0)
ATS-E-E	BKR ATS-E-E(N)	0.6	16.82	16.82	14.67	0.0553		AF LV Equipment	VCBB	25	26.36	18.00	2.39	(*S0)
ATS-EL-A	FU ATS-EL-A (E)	0.6	24.32	24.32	21.18	0.01		AF LV Equipment	VCBB	25	12.90	18.00	0.66	(*S6)
ATS-EL-B	FU ATS-EL-B (E)	0.6	24.90	24.90	21.66	0.01		AF LV Equipment	VCBB	25	13.08	18.00	0.67	(*S6)
ATS-EL-E	FU ATS-EL-E (E)	0.6	26.68	26.68	23.14	0.01		AF LV Equipment	VCBB	25	13.63	18.00	0.73	(*S6)
ATS-EM-A	BKR ATS-EM-A(E)	0.6	14.96	14.96	4.95	2		AF LV Equipment	VCBB	25	116.38	18.00	29.42	(*N9) (*N16) (*N25d) (*S7)
ATS-EM-B	BKR ATS-EM-B(E)	0.6	14.93	14.93	4.94	2		AF LV Equipment	VCBB	25	116.29	18.00	29.38	(*N9) (*N16) (*N25d) (*S7)
ATS-EM-E	BKR ATS-EM-E(E)	0.6	14.47	14.47	4.88	2		AF LV Equipment	VCBB	25	115.09	18.00	28.85	(*N9) (*N16) (*N25d) (*S7)
ATS-S-A	BKR ATS-S-A(E)	0.6	13.94	13.94	4.82	2		AF LV Equipment	VCBB	25	113.64	18.00	28.22	(*N9) (*N16) (*N25d) (*S7)
ATS-S-B	BKR ATS-S-B(E)	0.6	14.16	14.16	4.84	2		AF LV Equipment	VCBB	25	114.25	18.00	28.49	(*N9) (*N16) (*N25d) (*S7)
ATS-S-E	BKR ATS-S-E(E)	0.6	13.82	13.82	4.80	2		AF LV Equipment	VCBB	25	113.31	18.00	28.08	(*N9) (*N16) (*N25d) (*S7)
ATS-U-A	FU ATS-U-A (E)	0.6	26.42	26.42	22.93	0.01		AF LV Equipment	VCBB	25	13.56	18.00	0.72	(*S6)
ATS-U-B	FU ATS-U-B (E)	0.6	27.06	27.06	23.46	0.01		AF LV Equipment	VCBB	25	13.75	18.00	0.74	(*S6)
ATS-U-E	FU ATS-U-E (E)	0.6	27.72	27.72	23.99	0.01		AF LV Equipment	VCBB	25	13.94	18.00	0.76	(*S6)
BKR UPS-MBP-1	BKR TK4(DPE_044)	0.208	2.58	2.58	1.16	2		AF LV Equipment	VCBB	25	39.80	18.00	4.71	(*N9) (*N16) (*N25d) (*S6)
BKR UPS-MBP-2	BKR TK4(DPE-046)	0.208	2.03	2.03	0.92	2		AF LV Equipment	VCBB	25	33.84	18.00	3.63	(*N9) (*N16) (*N25d) (*S6)
BKR UPS-MBP-3	BKR TK4(DPE-047)	0.208	1.56	1.56	0.73	2		AF LV Equipment	VCBB	25	18.00	18.00	< 1.2	(*N9) (*N15b) (*S0)
BUS G1	BKR SG-G(1) TIE	0.6	34.37	17.23	5.47	2		AF LV Equipment	VCBB	25	192.76	18.00	70.13	(*N9) (*N16) (*N25d) (*S6)
BUS G2	BKR SG-G(1) TIE	0.6	34.37	17.23	5.24	2		AF LV Equipment	VCBB	25	192.76	18.00	70.13	(*N9) (*N16) (*N25d) (*S6)
INPUT VFD CH-1.1	BKR ATS-CH-1.1(E)	0.6	10.21	10.21	4.33	2		AF Power Panel	VCBB	25	87.90	18.00	20.20	(*N9) (*N16) (*N25d) (*S7)
INPUT VFD CH-1.2	BKR ATS-CH-1.2(E)	0.6	10.46	10.46	3.90	2		AF Power Panel	VCBB	25	88.62	18.00	17.87	(*N3) (*N9) (*N16) (*N25d) (*S7)
INPUT VFD CH-1.3	BKR CH-1.3	0.6	32.31	32.31	27.62	0.06		AF Power Panel	VCBB	25	37.35	18.00	4.49	(*S0)
PAN DP-004	BKR DP-004	0.6	34.27	34.27	29.10	0.2		AF Power Panel	VCBB	25	74.18	18.00	15.55	(*S0)
PAN DP-005	BKR DP-005	0.6	34.52	34.52	26.73	0.2		AF Switchboard	HCB	25	79.03	18.00	24.18	(*S0)
PAN DP-006	BKR DP-006	0.6	32.77	32.77	27.97	0.2		AF Power Panel	VCBB	25	72.83	18.00	15.04	(*S0)
PAN DP-007	BKR DP-007	0.6	33.78	33.78	28.73	0.2		AF Power Panel	VCBB	25	74.05	18.00	15.50	(*S0)
PAN DP-008	BKR DP-008	0.6	33.98	33.98	26.37	0.2		AF Switchboard	HCB	25	78.48	18.00	23.84	(*S0)
PAN DP-009	BKR DP-009	0.6	34.27	34.27	29.10	0.2		AF Power Panel	VCBB	25	74.18	18.00	15.55	(*S0)
PAN DP-010	BKR DP-010	0.6	34.44	34.44	26.68	0.2		AF Switchboard	HCB	25	78.95	18.00	24.13	(*S0)
PAN DP-011	BKR DP-011	0.6	33.33	33.33	25.94	0.2		AF Switchboard	HCB	25	77.83	18.00	23.44	(*S0)
PAN DP-012	BKR DP-012	0.6	33.22	33.22	28.31	0.2		AF Power Panel	VCBB	25	73.38	18.00	15.25	(*S0)
PAN DP-013	BKR DP-013	0.6	33.78	33.78	26.25	0.2		AF Switchboard	HCB	25	78.29	18.00	23.72	(*S0)
PAN DP-014	BKR DP-014	0.6	32.91	32.91	28.07	0.2		AF Power Panel	VCBB	25	72.57	18.00	14.95	(*S0)
PAN DP-017	BKR T5(DP-017)	0.208	5.20	5.20	2.13	2		AF Power Panel	VCBB	25	57.26	18.00	7.85	(*N3) (*N9) (*N25d) (*S0)
PAN DP-018	BKR DP-018	0.6	28.31	28.31	24.48	0.2		AF Power Panel	VCBB	25	67.06	18.00	12.96	(*S0)
PAN DP-019	BKR T7(DP-019)	0.208	7.36	7.36	3.61	2		AF Power Panel	VCBB	25	73.75	18.00	14.43	(*N9) (*N25d) (*S0)
PAN DP-020	BKR T8(DP-020)	0.208	14.83	14.83	7.73	0.2		AF Power Panel	VCBB	25	32.18	18.00	3.43	(*S0)
PAN DP-021	BKR T7(DP-021)	0.208	7.27	7.27	3.56	2		AF Power Panel	VCBB	25	73.06	18.00	14.20	(*N9) (*N25d) (*S0)
PAN DP-022	BKR T7(DP-022)	0.208	7.22	7.22	3.53	2		AF Power Panel	VCBB	25	72.76	18.00	14.10	(*N9) (*N25d) (*S0)
PAN DP-023	BKR T7(DP-023)	0.208	7.43	7.43	3.64	2		AF Power Panel	VCBB	25	74.33	18.00	14.63	(*N9) (*N25d) (*S0)
PAN DP-024	BKR T7(DP-024)	0.208	7.08	7.08	3.46	2		AF Power Panel	VCBB	25	71.78	18.00	13.78	(*N9) (*N25d) (*S0)
PAN DP-025	BKR T7(DP-025)	0.208	6.98	6.98	3.40	2		AF Power Panel	VCBB	25	71.02	18.00	13.53	(*N9) (*N25d) (*S0)
PAN DP-026	BKR T7(DP-026)	0.208	6.93	6.93	3.38	2		AF Power Panel	VCBB	25	70.65	18.00	13.41	(*N9) (*N25d) (*S0)
PAN DP-028	BKR T8(DP-028)	0.208	15.60	15.60	8.16	0.2		AF Power Panel	VCBB	25	33.33	18.00	3.66	(*S0)
PAN DP-029	BKR T7(DP-029)	0.208	6.74	6.74	3.28	2		AF Power Panel	VCBB	25	69.27	18.00	12.97	(*N9) (*N25d) (*S0)
PAN DP-030	BKR T7(DP-030)	0.208	6.64	6.64	3.23	2		AF Power Panel	VCBB	25	68.55	18.00	12.74	(*N9) (*N25d) (*S0)
PAN DP-031	BKR T7(DP-031)	0.208	6.59	6.59	3.20	2		AF Power Panel	VCBB	25	68.19	18.00	12.62	(*N9) (*N25d) (*S0)
PAN DP-033	BKR T7(DP-033)	0.208	6.01	6.01	2.90	2		AF Power Panel	VCBB	25	63.79	18.00	11.27	(*N9) (*N25d) (*S0)
PAN DP-034	BKR T7(DP-034)	0.208	6.23	6.23	3.01	2		AF Power Panel	VCBB	25	65.46	18.00	11.78	(*N9) (*N25d) (*S0)
PAN DP-035	BKR T7(DP-035)	0.208	6.11	6.11	2.95	2		AF Power Panel	VCBB	25	64.60	18.00	11.52	(*N9) (*N25d) (*S0)
PAN DP-036	BKR T7(DP-036)	0.208	6.07	6.07	2.93	2		AF Power Panel	VCBB	25	64.27	18.00	11.42	(*N9) (*N25d) (*S0)
PAN DP-039	BKR T7(DP-039)	0.208	5.81	5.81	2.80	2		AF Power Panel	VCBB	25	62.31	18.00	10.84	(*N9) (*N25d) (*S0)

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Table 5.7 - FLASH HAZARD TABLE FOR PROPOSED SETTINGS

MUN CORE SCIENCE

Date: March 1, 2021

Bus Name	Protective Device Name	kV	Bus Bolted Fault (kA)	Prot. Dev. Bolted Fault (kA)	Prot. Dev. Arcing Fault (kA)	Trip / Delay Time (sec)	Breaker Opening Time (sec)	Equip. Category	BusBar Config	Gap (mm)	Arc Flash Boundary (in)	Working Distance (in)	Incident Energy (cal/cm2)	Analysis Notes / Worse Case Scenario
PAN DP-040	BKR T8(DP-040)	0.208	10.66	10.66	5.40	0.2		AF Power Panel	VCBB	25	87.83	18.00	2.29	(*S0)
PAN DP-041	BKR T7(DP-041)	0.208	5.73	5.73	2.75	2		AF Power Panel	VCBB	25	61.64	18.00	10.64	(*N9) (*N25d) (*S0)
PAN DP-101	BKR DP-101	0.6	34.11	34.11	28.98	0.2		AF Power Panel	VCBB	25	74.00	18.00	15.48	(*S0)
PAN DP-102	BKR DP-102	0.6	31.75	31.75	27.19	0.2		AF Power Panel	VCBB	25	71.56	18.00	14.57	(*S0)
PAN DP-103	BKR DP-103	0.6	32.58	32.58	27.82	0.2		AF Power Panel	VCBB	25	72.59	18.00	14.95	(*S0)
PAN DPE-002	BKR ATS-S-A(E)	0.6	13.80	13.80	4.80	2		AF Power Panel	VCBB	25	96.46	18.00	23.72	(*N9) (*N16) (*N25d) (*S7)
PAN DPE-003	BKR ATS-S-B(E)	0.6	14.02	14.02	4.83	2		AF Power Panel	VCBB	25	96.98	18.00	23.94	(*N9) (*N16) (*N25d) (*S7)
PAN DPE-004	BKR ATS-S-E(E)	0.6	13.68	13.68	4.78	2		AF Power Panel	VCBB	25	96.18	18.00	23.60	(*N9) (*N16) (*N25d) (*S7)
PAN DPE-005	BKR ATS-E-A(N)	0.6	16.51	16.51	14.39	0.0555		AF Power Panel	VCBB	25	23.80	18.00	1.99	(*S0)
PAN DPE-006	BKR ATS-E-B(N)	0.6	16.03	16.03	13.96	0.056		AF Power Panel	VCBB	25	23.45	18.00	1.94	(*S0)
PAN DPE-007	BKR ATS-E-E(N)	0.6	16.35	16.35	14.24	0.0557		AF Power Panel	VCBB	25	23.68	18.00	1.97	(*S0)
PAN DPE-008	FU ATS-EL-A (E)	0.6	22.45	22.45	19.58	0.01		AF Power Panel	VCBB	25	11.19	18.00	0.51	(*S6)
PAN DPE-009	FU ATS-EL-B (E)	0.6	22.96	22.96	20.02	0.01		AF Power Panel	VCBB	25	11.35	18.00	0.52	(*S6)
PAN DPE-010	FU ATS-EL-E (E)	0.6	24.61	24.61	21.42	0.01		AF Power Panel	VCBB	25	11.84	18.00	0.56	(*S6)
PAN DPE-011	FU ATS-U-A (E)	0.6	24.32	24.32	21.18	0.01		AF Power Panel	VCBB	25	11.75	18.00	0.56	(*S6)
PAN DPE-012	FU ATS-U-B (E)	0.6	24.90	24.90	21.66	0.01		AF Power Panel	VCBB	25	11.92	18.00	0.57	(*S6)
PAN DPE-013	FU ATS-U-E (E)	0.6	25.49	25.49	22.16	0.01		AF Power Panel	VCBB	25	12.09	18.00	0.58	(*S6)
PAN DPE-014	BKR ATS-EM-A(E)	0.6	14.60	14.60	4.59	2		AF Switchboard	HCB	25	106.39	18.00	44.22	(*N9) (*N16) (*S7)
PAN DPE-015	BKR ATS-EM-B(E)	0.6	14.68	14.68	4.60	2		AF Switchboard	HCB	25	106.54	18.00	44.35	(*N9) (*N16) (*S7)
PAN DPE-016	BKR ATS-EM-E(E)	0.6	14.28	14.28	4.55	2		AF Switchboard	HCB	25	105.79	18.00	43.72	(*N9) (*N16) (*S7)
PAN DPE-017	BKR DPE-017 600A	0.6	28.94	28.94	24.98	0.05		AF Power Panel	VCBB	25	31.72	18.00	3.34	(*S0)
PAN DPE-018	BKR DPE-018 600A	0.6	27.58	27.58	23.88	0.05		AF Power Panel	VCBB	25	30.84	18.00	3.18	(*S0)
PAN DPE-019	BKR T5(DPE-019)	0.208	4.91	4.91	2.15	2		AF Power Panel	VCBB	25	56.09	18.00	8.12	(*N9) (*N16) (*N25d) (*S6)
PAN DPE-020	BKR T5(DPE-020)	0.208	4.61	4.61	2.19	2		AF Power Panel	VCBB	25	52.71	18.00	8.20	(*N9) (*N25d) (*S0)
PAN DPE-021	BKR T5(DPE-021)	0.208	4.56	4.56	2.16	2		AF Power Panel	VCBB	25	52.26	18.00	8.08	(*N9) (*N25d) (*S0)
PAN DPE-022	BKR T5(DPE-022)	0.208	4.50	4.50	2.14	2		AF Power Panel	VCBB	25	51.82	18.00	7.97	(*N9) (*N25d) (*S0)
PAN DPE-024	BKR T5(DPE-024)	0.208	4.55	4.55	2.16	2		AF Power Panel	VCBB	25	52.25	18.00	8.08	(*N9) (*N25d) (*S0)
PAN DPE-025	BKR T5(DPE-025)	0.208	4.18	4.18	1.97	2		AF Power Panel	VCBB	25	49.13	18.00	7.29	(*N9) (*N25d) (*S0)
PAN DPE-026	BKR T5(DPE-026)	0.208	4.13	4.13	1.95	2		AF Power Panel	VCBB	25	48.70	18.00	7.19	(*N9) (*N25d) (*S0)
PAN DPE-027	BKR T5(DPE-027)	0.208	4.07	4.07	1.92	2		AF Power Panel	VCBB	25	48.27	18.00	7.08	(*N9) (*N25d) (*S0)
PAN DPE-028	BKR T5(DPE-028)	0.208	4.02	4.02	1.90	2		AF Power Panel	VCBB	25	47.84	18.00	6.98	(*N9) (*N25d) (*S0)
PAN DPE-029	BKR T5(DPE-029)	0.208	4.59	4.59	2.18	2		AF Power Panel	VCBB	25	52.61	18.00	8.17	(*N9) (*N25d) (*S0)
PAN DPE-030	BKR T5(DPE-030)	0.208	3.81	3.81	1.80	2		AF Power Panel	VCBB	25	46.02	18.00	6.55	(*N9) (*N25d) (*S0)
PAN DPE-031	BKR T5(DPE-031)	0.208	3.74	3.74	1.76	2		AF Power Panel	VCBB	25	45.42	18.00	6.40	(*N9) (*S0)
PAN DPE-032	BKR T5(DPE-032)	0.208	3.69	3.69	1.74	2		AF Power Panel	VCBB	25	45.06	18.00	6.31	(*N9) (*S0)
PAN DPE-034	BKR T5(DPE-034)	0.208	3.08	3.08	1.44	2		AF Power Panel	VCBB	25	40.09	18.00	5.11	(*N9) (*S0)
PAN DPE-035	BKR T5(DPE-035)	0.208	3.28	3.28	1.54	2		AF Power Panel	VCBB	25	41.76	18.00	5.50	(*N9) (*S0)
PAN DPE-036	BKR T5(DPE-036)	0.208	3.19	3.19	1.49	2		AF Power Panel	VCBB	25	40.97	18.00	5.31	(*N9) (*S0)
PAN DPE-037	BKR T5(DPE-037)	0.208	3.15	3.15	1.48	2		AF Power Panel	VCBB	25	40.67	18.00	5.24	(*N9) (*S0)
PAN DPE-040	BKR T5(DPE-040)	0.208	3.14	3.14	1.47	2		AF Power Panel	VCBB	25	40.55	18.00	5.22	(*N9) (*S0)
PAN DPE-041	BKR T5(DPE-041)	0.208	3.10	3.10	1.45	2		AF Power Panel	VCBB	25	40.26	18.00	5.15	(*N9) (*S0)
PAN DPE-042	BKR T5(DPE-042)	0.208	2.93	2.93	1.37	2		AF Power Panel	VCBB	25	38.82	18.00	4.82	(*N9) (*S0)
PAN DPE-044	BKR UPS-MBP-1 150A	0.208	2.32	2.32	1.04	2		AF Power Panel	VCBB	25	32.79	18.00	3.55	(*N9) (*N16) (*S6)
PAN DPE-046	BKR UPS-MBP-2 150A	0.208	1.76	1.76	0.82	2		AF Power Panel	VCBB	25	18.00	18.00	< 1.2	(*N9) (*N15b) (*S0)
PAN DPE-047	BKR UPS-MBP-3 150A	0.208	1.44	1.44	0.67	2		AF Power Panel	VCBB	25	18.00	18.00	< 1.2	(*N9) (*N15b) (*S0)
PAN DPE-101A	BKR DPE-101C TIE	0.6	16.42	16.42	4.79	2		AF Switchboard	HCB	25	109.62	18.00	46.98	(*N9) (*N16) (*S7)
PAN DPE-101B	BKR DPE-101C TIE	0.6	16.42	16.42	4.79	2		AF Switchboard	HCB	25	109.62	18.00	46.98	(*N9) (*N16) (*S7)
PAN DPE-101C	BKR DPE-101B MAIN	0.6	16.42	16.42	4.79	2		AF Switchboard	HCB	25	109.62	18.00	46.98	(*N9) (*N16) (*S7)
PAN EMG-001	BKR T3(EMG-001)	0.208	2.13	2.13	0.99	2		AF LV Equipment	VCBB	25	35.59	18.00	3.94	(*N9) (*N25d) (*S0)
PAN EMG-002	BKR EMG-002 60A	0.208	0.82	0.82	0.39	2		AF LV Equipment	VCBB	25	18.00	18.00	< 1.2	(*N9) (*N15b) (*S0)
PAN EMG-003	BKR EMG-003 60A	0.208	0.79	0.79	0.37	2		AF LV Equipment	VCBB	25	18.00	18.00	< 1.2	(*N9) (*N15b) (*S0)
PAN EMG-004	BKR T3(EMG-004)	0.208	2.11	2.11	0.98	2		AF LV Equipment	VCBB	25	35.33	18.00	3.89	(*N9) (*N25d) (*S0)
PAN EMG-005	BKR EMG-005 100A	0.208	2.13	2.13	0.99	2		AF LV Equipment	VCBB	25	35.57	18.00	3.94	(*N9) (*N25d) (*S0)
PAN EMG-006	BKR EMG-006 100A	0.6	6.15	6.15	5.21	0.05		AF Power Panel	VCBB	25	11.87	18.00	0.57	(*S6)
PAN EMG-007	BKR T3(EMG-007)	0.208	1.95	1.95	0.91	2		AF LV Equipment	VCBB	25	18.00	18.00	< 1.2	(*N9) (*N15b) (*S0)

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Table 5.7 - FLASH HAZARD TABLE FOR PROPOSED SETTINGS

MUN CORE SCIENCE

Date: March 1, 2021

Bus Name	Protective Device Name	kV	Bus Bolted Fault (kA)	Prot. Dev. Bolted Fault (kA)	Prot. Dev. Arcing Fault (kA)	Trip / Delay Time (sec)	Breaker Opening Time (sec)	Equip. Category	BusBar Config	Gap (mm)	Arc Flash Boundary (in)	Working Distance (in)	Incident Energy (cal/cm2)	Analysis Notes / Worse Case Scenario
PAN EMG-008	BKR EMG-008 100A	0.208	2.50	2.50	1.16	2		AF LV Equipment	VCBB	25	39.88	18.00	4.73	(*N9) (*N25d) (*S0)
PAN EMG-009	BKR EMG-009 60A	0.208	0.87	0.87	0.41	2		AF LV Equipment	VCBB	25	18.00	18.00	< 1.2	(*N9) (*N15b) (*S0)
PAN EMG-010	BKR DPE-008 MAIN	0.6	7.08	7.08	6.02	0.0161		AF Power Panel	VCBB	25	6.95	18.00	0.21	(*N5) (*S6)
PAN EMG-011	BKR EMG-011 100A	0.208	4.06	4.06	1.47	2		AF LV Equipment	VCBB	25	51.68	18.00	6.47	(*N3) (*N9) (*N25a) (*N25d) (*S2)
PAN EMG-012	BKR EMG-012 100A	0.208	2.26	2.26	1.06	2		AF LV Equipment	VCBB	25	37.21	18.00	4.23	(*N9) (*N25d) (*S0)
PAN EMG-013	BKR EMG-013 100A	0.208	2.16	2.16	1.01	2		AF LV Equipment	VCBB	25	36.01	18.00	4.01	(*N9) (*N25d) (*S0)
PAN EMG-014	BKR EMG-014 60A	0.208	0.89	0.89	0.42	2		AF LV Equipment	VCBB	25	18.00	18.00	< 1.2	(*N9) (*N15b) (*S0)
PAN EMG-015	BKR EMG-015 100A	0.208	4.03	4.03	1.46	2		AF LV Equipment	VCBB	25	51.35	18.00	6.41	(*N3) (*N9) (*N25a) (*N25d) (*S0)
PAN EMG-016	BKR EMG-016 100A	0.6	9.03	9.03	7.74	0.05		AF Power Panel	VCBB	25	15.22	18.00	0.89	(*S6)
PAN EMG-017	BKR EMG-017 100A	0.208	3.21	3.21	1.50	1.933		AF LV Equipment	VCBB	25	47.94	18.00	6.11	(*N25d) (*S5)
PAN EMG-018	BKR EMG-018 100A	0.208	3.17	3.17	1.48	1.986		AF LV Equipment	VCBB	25	47.52	18.00	6.19	(*N25d) (*S5)
PAN EMG-019	BKR EMG-019 60A	0.208	0.97	0.97	0.45	2		AF LV Equipment	VCBB	25	18.00	18.00	< 1.2	(*N9) (*N15b) (*S0)
PAN EMG-020	BKR DPE-008 MAIN	0.6	6.86	6.86	5.83	0.0161		AF Power Panel	VCBB	25	6.81	18.00	0.21	(*N5) (*S7)
PAN EMG-021	BKR EMG-021 100A	0.208	3.98	3.98	1.44	2		AF LV Equipment	VCBB	25	50.91	18.00	6.32	(*N3) (*N9) (*N25a) (*N25d) (*S0)
PAN EMG-022	BKR EMG-022 100A	0.208	3.21	3.21	1.50	1.923		AF LV Equipment	VCBB	25	47.97	18.00	6.09	(*N25d) (*S5)
PAN EMG-023	BKR EMG-023 100A	0.208	3.17	3.17	1.49	1.982		AF LV Equipment	VCBB	25	47.56	18.00	6.19	(*N25d) (*S5)
PAN EMG-024	BKR EMG-024 60A	0.208	2.10	2.10	0.95	1.967		AF LV Equipment	VCBB	25	34.61	18.00	3.71	(*N16) (*N25d) (*S6)
PAN EMG-026	BKR EMG-026 100A	0.6	10.44	10.44	8.01	0.05		AF Power Panel	VCBB	25	15.50	18.00	0.92	(*N3) (*S6)
PAN EMG-027	BKR T3-3	0.208	1.78	1.78	0.83	2		AF LV Equipment	VCBB	25	18.00	18.00	< 1.2	(*N9) (*N15b) (*S0)
PAN EMG-030	BKR EMG-030 400A	0.6	14.35	13.79	11.98	0.05		AF Power Panel	VCBB	25	20.79	18.00	1.56	(*S0)
PAN EMG-031	BKR T5(EMG-031)	0.208	4.68	4.68	2.22	2		AF Power Panel	VCBB	25	53.20	18.00	8.32	(*N9) (*N25d) (*S0)
PAN EMG-032	BKR EMG-032 60A	0.208	0.95	0.95	0.45	2		AF LV Equipment	VCBB	25	18.00	18.00	< 1.2	(*N9) (*N15b) (*S0)
PAN EMG-033	BKR EMG-033 100A	0.208	3.96	3.96	1.44	2		AF LV Equipment	VCBB	25	50.82	18.00	6.30	(*N3) (*N9) (*N25a) (*N25d) (*S0)
PAN EMG-034	BKR EMG-034 100A	0.6	4.18	4.18	3.51	0.0528		AF Power Panel	VCBB	25	9.56	18.00	0.38	(*S6)
PAN EMG-035	BKR T3(EMG-035)	0.208	1.90	1.90	0.88	2		AF LV Equipment	VCBB	25	18.00	18.00	< 1.2	(*N9) (*N15b) (*S0)
PAN EMG-036	BKR DPE-024 MAIN	0.208	2.62	2.62	1.22	2		AF LV Equipment	VCBB	25	41.29	18.00	5.00	(*N5) (*N9) (*N25d) (*S0)
PAN EMG-037	BKR EMG-037 100A	0.208	2.35	2.35	1.10	2		AF LV Equipment	VCBB	25	38.21	18.00	4.41	(*N9) (*N25d) (*S0)
PAN EMG-038	BKR EMG-038 60A	0.208	1.05	1.05	0.49	2		AF LV Equipment	VCBB	25	18.00	18.00	< 1.2	(*N9) (*N15b) (*S0)
PAN EMG-039	BKR EMG-039 100A	0.208	3.95	3.95	1.43	2		AF LV Equipment	VCBB	25	50.70	18.00	6.28	(*N3) (*N9) (*N25a) (*N25d) (*S0)
PAN EMG-042	FU ATS-EL-A (E)	0.6	16.05	16.05	13.98	0.01		AF Power Panel	VCBB	25	9.06	18.00	0.35	(*N5) (*S6)
PAN EMG-043	BKR EMG-043 100A	0.208	1.73	1.73	0.81	2		AF LV Equipment	VCBB	25	18.00	18.00	< 1.2	(*N9) (*N15b) (*S0)
PAN EMG-044	BKR EMG-044 100A	0.208	1.72	1.72	0.80	2		AF LV Equipment	VCBB	25	18.00	18.00	< 1.2	(*N9) (*N15b) (*S0)
PAN EMG-045	BKR EMG-045 60A	0.208	1.27	1.27	0.59	2		AF LV Equipment	VCBB	25	18.00	18.00	< 1.2	(*N9) (*N15b) (*S0)
PAN EMG-046	BKR EMG-046 100A	0.208	3.90	3.90	1.41	2		AF LV Equipment	VCBB	25	50.26	18.00	6.19	(*N3) (*N9) (*N25a) (*N25d) (*S0)
PAN EMG-047	BKR EMG-047 100A	0.6	6.25	6.25	5.29	0.05		AF Power Panel	VCBB	25	11.99	18.00	0.58	(*S6)
PAN EMG-048	BKR DPE-009 MAIN	0.6	5.56	5.56	4.70	0.0161		AF Power Panel	VCBB	25	5.95	18.00	0.16	(*N5) (*S6)
PAN EMG-049	BKR DPE-026 MAIN	0.208	3.30	3.30	1.55	2		AF LV Equipment	VCBB	25	48.73	18.00	6.54	(*N5) (*N9) (*N25d) (*S0)
PAN EMG-050	BKR DPE-026 MAIN	0.208	2.61	2.61	1.22	2		AF LV Equipment	VCBB	25	41.23	18.00	4.99	(*N5) (*N9) (*N25d) (*S0)
PAN EMG-051	BKR EMG-051 60A	0.208	1.37	1.37	0.64	2		AF LV Equipment	VCBB	25	18.00	18.00	< 1.2	(*N9) (*N15b) (*S0)
PAN EMG-052	BKR EMG-052 100A	0.208	3.86	3.86	1.40	2		AF LV Equipment	VCBB	25	49.82	18.00	6.11	(*N3) (*N9) (*N25a) (*N25d) (*S0)
PAN EMG-053	BKR DPE-009 MAIN	0.6	6.57	6.57	5.57	0.0161		AF Power Panel	VCBB	25	6.62	18.00	0.20	(*N5) (*S6)
PAN EMG-054	BKR DPE-027 MAIN	0.208	2.65	2.65	1.24	2		AF LV Equipment	VCBB	25	41.68	18.00	5.07	(*N5) (*N9) (*N25d) (*S0)
PAN EMG-055	BKR DPE-027 MAIN	0.208	2.57	2.57	1.20	2		AF LV Equipment	VCBB	25	40.78	18.00	4.90	(*N5) (*N9) (*N25d) (*S0)
PAN EMG-056	BKR EMG-056 60A	0.208	1.61	1.61	0.75	2		AF LV Equipment	VCBB	25	18.00	18.00	< 1.2	(*N9) (*N15b) (*S0)
PAN EMG-057	BKR EMG-057 100A	0.208	3.81	3.81	1.79	0.0165		AF LV Equipment	VCBB	25	3.55	18.00	0.06	(*S0)
PAN EMG-062	BKR EMG-062 600A	0.6	9.61	9.61	7.35	0.14		AF Power Panel	VCBB	25	25.95	18.00	2.33	(*N3) (*S7)
PAN EMG-063	BKR T5(EMG-063)	0.208	4.89	4.89	2.33	2		AF Power Panel	VCBB	25	55.00	18.00	8.79	(*N9) (*N25d) (*S0)
PAN EMG-064	BKR EMG-064 100A	0.208	4.27	4.27	1.45	2		AF LV Equipment	VCBB	25	51.40	18.00	6.42	(*N3) (*N9) (*N16) (*N25a) (*N25d)
PAN EMG-065	BKR EMG-065 100A	0.6	4.15	4.15	3.49	0.0529		AF Power Panel	VCBB	25	9.52	18.00	0.38	(*S6)
PAN EMG-066	BKR T3(EMG-066)	0.208	1.90	1.90	0.88	2		AF LV Equipment	VCBB	25	18.00	18.00	< 1.2	(*N9) (*N15b) (*S0)
PAN EMG-067	BKR DPE-029 MAIN	0.208	3.02	3.02	1.41	2		AF LV Equipment	VCBB	25	45.74	18.00	5.90	(*N5) (*N9) (*N25d) (*S0)
PAN EMG-068	BKR EMG-068 100A	0.208	2.79	2.79	1.30	2		AF LV Equipment	VCBB	25	43.23	18.00	5.38	(*N9) (*N25d) (*S0)
PAN EMG-069	BKR EMG-069 100A	0.208	3.57	3.57	1.49	2		AF LV Equipment	VCBB	25	51.56	18.00	6.45	(*N9) (*N25a) (*N25d) (*S4)
PAN EMG-070	BKR DPE-030 MAIN	0.208	2.23	2.23	1.04	2		AF LV Equipment	VCBB	25	36.87	18.00	4.17	(*N5) (*N9) (*N25d) (*S0)
PAN EMG-071	BKR DPE-030 MAIN	0.208	2.21	2.21	1.03	2		AF LV Equipment	VCBB	25	36.63	18.00	4.12	(*N5) (*N9) (*N25d) (*S0)

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Table 5.7 - FLASH HAZARD TABLE FOR PROPOSED SETTINGS

MUN CORE SCIENCE

Date: March 1, 2021

Bus Name	Protective Device Name	kV	Bus Bolted Fault (kA)	Prot. Dev. Bolted Fault (kA)	Prot. Dev. Arcing Fault (kA)	Trip / Delay Time (sec)	Breaker Opening Time (sec)	Equip. Category	BusBar Config	Gap (mm)	Arc Flash Boundary (in)	Working Distance (in)	Incident Energy (cal/cm2)	Analysis Notes / Worse Case Scenario
PAN EMG-072	BKR ATS-EL-B(E)	0.6	3.81	3.81	3.20	0.0161		AF Power Panel	VCBB	25	4.67	18.00	0.10	(*N5) (*S6)
PAN EMG-073	BKR EMG-073 100A	0.208	3.54	3.54	1.48	2		AF LV Equipment	VCBB	25	51.27	18.00	6.39	(*N9) (*N25a) (*N25d) (*S0)
PAN EMG-074	BKR EMG-074 100A	0.6	4.32	4.32	3.63	0.0524		AF Power Panel	VCBB	25	9.72	18.00	0.39	(*S6)
PAN EMG-075	BKR DPE-031 MAIN	0.208	3.18	3.18	1.49	2		AF LV Equipment	VCBB	25	47.45	18.00	6.26	(*N5) (*N9) (*N25d) (*S0)
PAN EMG-076	BKR DPE-031 MAIN	0.208	2.74	2.74	1.28	2		AF LV Equipment	VCBB	25	42.65	18.00	5.27	(*N5) (*N9) (*N25d) (*S0)
PAN EMG-077	BKR EMG-077 100A	0.208	3.50	3.50	1.46	2		AF LV Equipment	VCBB	25	50.84	18.00	6.31	(*N9) (*N25a) (*N25d) (*S0)
PAN EMG-078	BKR DPE-032 MAIN	0.208	2.78	2.78	1.30	2		AF LV Equipment	VCBB	25	43.14	18.00	5.36	(*N5) (*N9) (*N25d) (*S0)
PAN EMG-079	BKR DPE-032 MAIN	0.208	2.77	2.77	1.29	2		AF LV Equipment	VCBB	25	42.94	18.00	5.32	(*N5) (*N9) (*N25d) (*S0)
PAN EMG-080	BKR ATS-EL-B(E)	0.6	4.06	4.06	3.40	0.0161		AF Power Panel	VCBB	25	4.86	18.00	0.11	(*N5) (*S6)
PAN EMG-082	BKR EMG-082 100A	0.6	4.81	4.81	3.88	0.0516		EMG-074	VCB	25	9.46	18.00	0.43	(*S6)
PAN EMG-083	BKR T3(EMG-083)	0.208	1.92	1.92	0.90	2		AF LV Equipment	VCBB	25	18.00	18.00	< 1.2	(*N9) (*N15b) (*S0)
PAN EMG-086	BKR EMG-086 800A	0.6	16.89	16.89	14.73	0.14		AF Power Panel	VCBB	25	40.19	18.00	5.13	(*S0)
PAN EMG-087	BKR T5(EMG-087)	0.208	4.96	4.96	2.37	2		AF Power Panel	VCBB	25	55.61	18.00	8.96	(*N9) (*N25d) (*S0)
PAN EMG-088	BKR EMG-088 100A	0.208	2.94	2.94	1.37	2		AF LV Equipment	VCBB	25	44.83	18.00	5.71	(*N9) (*N25d) (*S0)
PAN EMG-091	BKR EMG-091 100A	0.208	1.80	1.80	0.84	2		AF LV Equipment	VCBB	25	18.00	18.00	< 1.2	(*N9) (*N15b) (*S0)
PAN EMG-093	BKR EMG-093 100A	0.208	3.12	3.12	1.46	2		AF LV Equipment	VCBB	25	46.84	18.00	6.13	(*N9) (*N25d) (*S0)
PAN EMG-094	FU DPE-010 TIE	0.6	2.47	2.47	1.72	1.313		AF Power Panel	VCBB	25	35.92	18.00	3.62	(*N3) (*N5) (*N25a) (*N25d) (*S5)
PAN EMG-095	BKR DPE-035 MAIN	0.208	2.10	2.10	0.98	2		AF LV Equipment	VCBB	25	35.33	18.00	3.89	(*N5) (*N9) (*N25d) (*S0)
PAN EMG-096	BKR EMG-096 100A	0.208	1.90	1.90	0.89	2		AF LV Equipment	VCBB	25	18.00	18.00	< 1.2	(*N9) (*N15b) (*S0)
PAN EMG-097	BKR EMG-097 100A	0.208	3.04	3.04	1.42	2		AF LV Equipment	VCBB	25	45.88	18.00	5.93	(*N9) (*N25d) (*S0)
PAN EMG-098	BKR EMG-098 100A	0.6	3.57	3.57	3.00	0.0548		AF Power Panel	VCBB	25	8.83	18.00	0.33	(*S6)
PAN EMG-099	BKR DPE-036 MAIN	0.208	1.94	1.94	0.90	2		AF LV Equipment	VCBB	25	18.00	18.00	< 1.2	(*N5) (*N9) (*N15b) (*S0)
PAN EMG-100	BKR EMG-100 100A	0.208	1.93	1.93	0.90	2		AF LV Equipment	VCBB	25	18.00	18.00	< 1.2	(*N9) (*N15b) (*S0)
PAN EMG-101	BKR EMG-101 100A	0.208	3.00	3.00	1.40	2		AF LV Equipment	VCBB	25	45.53	18.00	5.85	(*N9) (*N25d) (*S0)
PAN EMG-102	BKR ATS-EL-E(E)	0.6	3.48	3.48	2.92	0.0161		AF Power Panel	VCBB	25	4.41	18.00	0.09	(*N5) (*S6)
PAN EMG-103	BKR DPE-037 MAIN	0.208	2.01	2.01	0.94	2		AF LV Equipment	VCBB	25	34.18	18.00	3.69	(*N5) (*N9) (*N25d) (*S0)
PAN EMG-104	BKR DPE-037 MAIN	0.208	1.88	1.88	0.88	2		AF LV Equipment	VCBB	25	18.00	18.00	< 1.2	(*N5) (*N9) (*N15b) (*S0)
PAN EMG-110	BKR T5(EMG-110)	0.208	4.60	4.60	2.19	2		AF Power Panel	VCBB	25	52.69	18.00	8.19	(*N9) (*N25d) (*S0)
PAN EMG-111	BKR EMG-111 400A	0.6	8.00	8.00	6.83	0.0585		AF Power Panel	VCBB	25	15.34	18.00	0.90	(*S0)
PAN EMG-112	BKR EMG-112 60A	0.208	0.91	0.91	0.43	2		AF LV Equipment	VCBB	25	18.00	18.00	< 1.2	(*N9) (*N15b) (*S0)
PAN EMG-114	BKR EMG-114 100A	0.6	2.08	2.08	1.42	0.73		AF Power Panel	VCBB	25	23.37	18.00	1.92	(*N3) (*N16) (*S7)
PAN EMG-115	BKR T3(EMG-115)	0.208	1.70	1.70	0.79	2		AF LV Equipment	VCBB	25	18.00	18.00	< 1.2	(*N9) (*N15b) (*S0)
PAN EMG-118	BKR EMG-118 60A	0.208	1.04	1.04	0.49	2		AF LV Equipment	VCBB	25	18.00	18.00	< 1.2	(*N9) (*N15b) (*S0)
PAN EMG-119	BKR EMG-119 100A	0.208	2.99	2.99	1.40	2		AF LV Equipment	VCBB	25	45.39	18.00	5.82	(*N9) (*N25d) (*S0)
PAN EMG-120	BKR EMG-120 100A	0.208	1.66	1.66	0.77	2		AF LV Equipment	VCBB	25	18.00	18.00	< 1.2	(*N9) (*N15b) (*S0)
PAN EMG-121	BKR DPE-040 MAIN	0.208	2.19	2.19	1.02	2		AF LV Equipment	VCBB	25	36.31	18.00	4.07	(*N5) (*N9) (*N25d) (*S0)
PAN EMG-122	BKR EMG-122 100A	0.6	2.13	2.13	1.58	2		AF Power Panel	VCBB	25	45.40	18.00	5.82	(*N3) (*N9) (*N25d) (*S0)
PAN EMG-123	BKR EMG-123 60A	0.208	1.12	1.12	0.53	2		AF LV Equipment	VCBB	25	18.00	18.00	< 1.2	(*N9) (*N15b) (*S0)
PAN EMG-124	BKR EMG-124 100A	0.208	2.96	2.96	1.38	2		AF LV Equipment	VCBB	25	45.04	18.00	5.75	(*N9) (*N25d) (*S0)
PAN EMG-125	BKR EMG-125 100A	0.6	2.45	2.45	1.70	0.5081		AF Power Panel	VCBB	25	19.72	18.00	1.39	(*N3) (*N25a) (*N25d) (*S5)
PAN EMG-126	BKR EMG-126 100A	0.208	1.68	1.68	0.78	2		AF LV Equipment	VCBB	25	18.00	18.00	< 1.2	(*N9) (*N15b) (*S0)
PAN EMG-127	BKR EMG-127 100A	0.208	1.65	1.65	0.77	2		AF LV Equipment	VCBB	25	18.00	18.00	< 1.2	(*N9) (*N15b) (*S0)
PAN EMG-128	BKR EMG-128 60A	0.208	1.17	1.17	0.55	2		AF LV Equipment	VCBB	25	18.00	18.00	< 1.2	(*N9) (*N15b) (*S0)
PAN EMG-129	BKR EMG-129 100A	0.208	2.80	2.80	1.31	2		AF LV Equipment	VCBB	25	43.30	18.00	5.40	(*N9) (*N25d) (*S0)
PAN EMG-130	BKR DPE-042 MAIN	0.208	2.34	2.34	1.09	2		AF LV Equipment	VCBB	25	38.07	18.00	4.39	(*N5) (*N9) (*N25d) (*S0)
PAN EMG-131	BKR EMG-131 100A	0.208	1.73	1.73	0.80	2		AF LV Equipment	VCBB	25	18.00	18.00	< 1.2	(*N9) (*N15b) (*S0)
PAN EMG-132	BKR EMG-132 100A	0.6	2.26	2.26	1.69	2		AF Power Panel	VCBB	25	44.80	18.00	6.25	(*N3) (*N9) (*S0)
PAN EMG-133	BKR EMG-133 60A	0.208	1.31	1.31	0.61	2		AF LV Equipment	VCBB	25	18.00	18.00	< 1.2	(*N9) (*N15b) (*S0)
PAN EMG-135	BKR EMG-135 100A	0.6	2.58	2.58	1.92	0.0782		AF Power Panel	VCBB	25	8.11	18.00	0.28	(*N3) (*S5)
PAN EMG-136	BKR T3(EMG-136)	0.208	1.79	1.79	0.83	2		AF LV Equipment	VCBB	25	18.00	18.00	< 1.2	(*N9) (*N15b) (*S0)
PAN EMG-139	BKR EMG-139 600A	0.6	9.76	9.76	7.47	0.14		AF Power Panel	VCBB	25	26.21	18.00	2.37	(*N3) (*S2)
PAN EMG-140	BKR T2(EMG-140)	0.208	0.82	0.82	0.39	2		AF LV Equipment	VCBB	25	18.00	18.00	< 1.2	(*N9) (*N15b) (*S0)
PAN EMG-141	BKR EMG-141 100A	0.6	2.43	2.43	1.68	2		AF Power Panel	VCBB	25	46.10	18.00	5.39	(*N3) (*N9) (*N25a) (*N25d) (*S0)
PAN EMG-142	BKR T4-1	0.208	2.67	2.67	1.25	2		AF LV Equipment	VCBB	25	41.86	18.00	5.11	(*N9) (*N25d) (*S0)
PAN EMG-143	BKR DPE-009 MAIN	0.6	4.57	4.57	3.85	0.0161		AF Power Panel	VCBB	25	5.25	18.00	0.13	(*N5) (*S6)

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Table 5.7 - FLASH HAZARD TABLE FOR PROPOSED SETTINGS

MUN CORE SCIENCE

Date: March 1, 2021

Bus Name	Protective Device Name	kV	Bus Bolted Fault (kA)	Prot. Dev. Bolted Fault (kA)	Prot. Dev. Arcing Fault (kA)	Trip / Delay Time (sec)	Breaker Opening Time (sec)	Equip. Category	BusBar Config	Gap (mm)	Arc Flash Boundary (in)	Working Distance (in)	Incident Energy (cal/cm2)	Analysis Notes / Worse Case Scenario
PAN EMG-144	BKR EMG-144 100A	0.208	3.25	3.25	1.46	2		AF LV Equipment	VCBB	25	48.69	18.00	6.14	(*N9) (*N16) (*N25d) (*S6)
PAN EMG-145	BKR EMG-145 100A	0.208	2.77	2.77	1.29	2		AF LV Equipment	VCBB	25	42.99	18.00	5.33	(*N9) (*N25d) (*S0)
PAN EMG-146	BKR EMG-146 100A	0.208	3.00	3.00	1.40	2		AF LV Equipment	VCBB	25	45.51	18.00	5.85	(*N9) (*N25d) (*S0)
PAN EMG-147	BKR EMG-147 100A	0.208	3.04	3.04	1.42	2		AF LV Equipment	VCBB	25	45.92	18.00	5.93	(*N9) (*N25d) (*S0)
PAN EMG-148	BKR EMG-148 100A	0.208	3.04	3.04	1.42	2		AF LV Equipment	VCBB	25	45.96	18.00	5.94	(*N9) (*N25d) (*S0)
PAN EMG-149	BKR EMG-149 100A	0.208	2.87	2.87	1.34	2		AF LV Equipment	VCBB	25	44.10	18.00	5.56	(*N9) (*N25d) (*S0)
PAN EMG-150	BKR EMG-150 100A	0.208	2.15	2.15	1.00	2		AF LV Equipment	VCBB	25	35.88	18.00	3.99	(*N9) (*N25d) (*S0)
PAN EMG-151	BKR EMG-151 100A	0.208	3.59	3.59	1.50	1.951		AF LV Equipment	VCBB	25	51.00	18.00	6.34	(*N25a) (*N25d) (*S5)
PAN EMG-152	BKR EMG-152 100A	0.208	3.53	3.53	1.47	2		AF LV Equipment	VCBB	25	51.02	18.00	6.34	(*N9) (*N25a) (*N25d) (*S0)
PAN EMG-153	BKR EMG-153 100A	0.208	1.77	1.77	0.82	2		AF LV Equipment	VCBB	25	18.00	18.00	< 1.2	(*N9) (*N15b) (*S0)
PAN EMG-154	BKR EMG-154 100A	0.208	3.04	3.04	1.42	2		AF LV Equipment	VCBB	25	45.91	18.00	5.93	(*N9) (*N25d) (*S0)
PAN EMG-155	BKR EMG-155 100A	0.208	3.83	3.83	1.39	2		AF LV Equipment	VCBB	25	49.61	18.00	6.06	(*N3) (*N9) (*N25a) (*N25d) (*S0)
PAN EMG-156	BKR EMG-156 100A	0.208	3.69	3.69	1.49	2		AF LV Equipment	VCBB	25	48.26	18.00	6.18	(*N3) (*N9) (*N25d) (*S0)
PAN EMG-157	BKR EMG-157 100A	0.208	3.00	3.00	1.40	2		AF LV Equipment	VCBB	25	45.53	18.00	5.85	(*N9) (*N25d) (*S0)
PAN EMG-158	BKR EMG-158 100A	0.208	2.05	2.05	0.95	2		AF LV Equipment	VCBB	25	34.62	18.00	3.77	(*N9) (*N25d) (*S0)
PAN EMG-159	BKR EMG-159 100A	0.208	1.87	1.87	0.87	2		AF LV Equipment	VCBB	25	18.00	18.00	< 1.2	(*N9) (*N15b) (*S0)
PAN EMG-160	BKR EMG-160 100A	0.208	1.90	1.90	0.89	2		AF LV Equipment	VCBB	25	18.00	18.00	< 1.2	(*N9) (*N15b) (*S0)
PAN EMG-161	BKR EMG-161 100A	0.208	1.86	1.86	0.87	2		AF LV Equipment	VCBB	25	18.00	18.00	< 1.2	(*N9) (*N15b) (*S0)
PAN EMG-162	BKR EMG-162 100A	0.208	3.26	3.26	1.35	2		AF LV Equipment	VCBB	25	48.28	18.00	5.81	(*N9) (*N25a) (*N25d) (*S0)
PAN EMG-163	BKR EMG-163 100A	0.208	3.72	3.72	1.50	2		AF LV Equipment	VCBB	25	48.72	18.00	6.25	(*N3) (*N9) (*N25d) (*S5)
PAN EMG-164	BKR EMG-164 100A	0.208	3.84	3.84	1.39	2		AF LV Equipment	VCBB	25	49.63	18.00	6.07	(*N3) (*N9) (*N25a) (*N25d) (*S0)
PAN EMG-165	BKR EMG-165 100A	0.208	3.51	3.51	1.46	2		AF LV Equipment	VCBB	25	50.90	18.00	6.32	(*N9) (*N25a) (*N25d) (*S0)
PAN EMG-166	BKR EMG-166 100A	0.208	2.49	2.49	1.16	2		AF LV Equipment	VCBB	25	39.86	18.00	4.72	(*N9) (*N25d) (*S0)
PAN EMG-167	BKR EMG-167 100A	0.208	1.56	1.56	0.73	2		AF LV Equipment	VCBB	25	18.00	18.00	< 1.2	(*N9) (*N15b) (*S0)
PAN EMG-168	BKR EMG-168 100A	0.208	1.55	1.55	0.73	2		AF LV Equipment	VCBB	25	18.00	18.00	< 1.2	(*N9) (*N15b) (*S0)
PAN EMG-169	BKR EMG-169 100A	0.208	1.56	1.56	0.73	2		AF LV Equipment	VCBB	25	18.00	18.00	< 1.2	(*N9) (*N15b) (*S0)
PAN EMG-170	BKR EMG-170 100A	0.208	1.43	1.43	0.67	2		AF LV Equipment	VCBB	25	18.00	18.00	< 1.2	(*N9) (*N15b) (*S0)
PAN EMG-171	BKR EMG-171 100A	0.208	2.72	2.72	1.27	2		AF LV Equipment	VCBB	25	42.40	18.00	5.22	(*N9) (*N25d) (*S0)
PAN EMG-172	BKR EMG-172 100A	0.208	4.37	4.37	2.07	0.0175		AF LV Equipment	VCBB	25	4.02	18.00	0.08	(*S0)
PAN EMG-173	BKR EMG-173 100A	0.208	3.65	3.65	1.47	2		AF LV Equipment	VCBB	25	47.85	18.00	6.09	(*N3) (*N9) (*N25d) (*S0)
PAN LP-001	BKR LP-001 125A	0.6	31.76	31.76	27.20	0.05		AF Power Panel	VCBB	25	33.45	18.00	3.68	(*S0)
PAN LP-002	BKR LP-002 125A	0.6	11.93	11.93	10.31	0.05		AF Power Panel	VCBB	25	18.22	18.00	1.23	(*S0)
PAN LP-003	BKR LP-003 125A	0.6	12.28	12.28	10.62	0.05		AF Power Panel	VCBB	25	18.56	18.00	1.27	(*S0)
PAN LP-004	BKR LP-004 125A	0.6	10.22	10.22	8.78	0.05		AF Power Panel	VCBB	25	16.48	18.00	1.02	(*S0)
PAN LP-005	BKR LP-005 125A	0.6	9.86	9.86	8.47	0.05		AF Power Panel	VCBB	25	16.10	18.00	0.98	(*S0)
PAN LP-006	BKR LP-006 125A	0.6	9.57	9.57	8.21	0.05		AF Power Panel	VCBB	25	15.80	18.00	0.95	(*S0)
PAN LP-007	BKR LP-007 125A	0.6	6.82	6.82	5.80	0.0516		AF Power Panel	VCBB	25	12.92	18.00	0.66	(*S0)
PAN LP-008	BKR LP-008 125A	0.6	6.30	6.30	5.34	0.0526		AF Power Panel	VCBB	25	12.41	18.00	0.61	(*S0)
PAN LP-009	BKR LP-009 125A	0.6	6.03	6.03	5.10	0.0532		AF Power Panel	VCBB	25	12.13	18.00	0.59	(*S0)
PAN LP-010	BKR LP-010 125A	0.6	5.86	5.86	4.95	0.0536		AF Power Panel	VCBB	25	11.95	18.00	0.57	(*S0)
PAN LP-011	BKR LP-011 60A	0.6	1.98	1.98	1.48	0.6231		AF Power Panel	VCBB	25	21.91	18.00	1.68	(*N3) (*N25d) (*S5)
PAN LP-012	BKR LP-012 125A	0.6	10.24	10.24	8.80	0.05		AF Power Panel	VCBB	25	16.50	18.00	1.03	(*S0)
PAN LP-013	BKR LP-013 125A	0.6	5.50	5.50	4.64	0.0544		AF Power Panel	VCBB	25	11.57	18.00	0.54	(*S0)
PAN LP-014	BKR LP-014 125A	0.6	5.15	5.15	4.35	0.0555		AF Power Panel	VCBB	25	11.22	18.00	0.51	(*S0)
PAN LP-015	BKR LP-015 125A	0.6	4.94	4.94	4.16	0.0565		AF Power Panel	VCBB	25	11.03	18.00	0.50	(*S0)
PAN LP-016	BKR LP-016 125A	0.6	4.82	4.82	4.06	0.0571		AF Power Panel	VCBB	25	10.93	18.00	0.49	(*S0)
PAN LP-017	BKR LP-017 125A	0.6	3.45	3.45	2.57	1.391		AF Power Panel	VCBB	25	50.37	18.00	7.02	(*N3) (*N25d) (*S5)
PAN LP-018	BKR LP-018 125A	0.6	3.89	3.89	2.91	0.0772		AF Power Panel	VCBB	25	10.43	18.00	0.45	(*N3) (*S5)
PAN LP-019	BKR LP-019 125A	0.6	3.76	3.76	2.81	0.0818		AF Power Panel	VCBB	25	10.55	18.00	0.46	(*N3) (*S5)
PAN LP-020	BKR LP-020 125A	0.6	3.68	3.68	2.60	1.376		AF Power Panel	VCBB	25	48.54	18.00	5.86	(*N3) (*N25a) (*N25d) (*S1)
PAN LP-023	BKR LP-023 125A	0.6	3.20	3.20	2.39	1.611		AF Power Panel	VCBB	25	52.68	18.00	7.48	(*N3) (*N25d) (*S5)
PAN LP-024	BKR LP-024 125A	0.6	3.13	3.13	2.34	1.689		AF Power Panel	VCBB	25	53.44	18.00	7.64	(*N3) (*N25d) (*S5)
PAN LP-025	BKR LP-025 125A	0.6	3.05	3.05	2.27	1.782		AF Power Panel	VCBB	25	54.11	18.00	7.82	(*N3) (*N25d) (*S5)
PAN LP-026	BKR LP-026 125A	0.6	3.00	3.00	2.24	1.836		AF Power Panel	VCBB	25	53.56	18.00	7.92	(*N3) (*N25d) (*S5)
PAN LP-027	BKR LP-027 60A	0.6	1.59	1.59	1.19	1.04		AF Power Panel	VCBB	25	25.06	18.00	2.18	(*N3) (*S5)

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Table 5.7 - FLASH HAZARD TABLE FOR PROPOSED SETTINGS

MUN CORE SCIENCE

Date: March 1, 2021

Bus Name	Protective Device Name	kV	Bus Bolted Fault (kA)	Prot. Dev. Bolted Fault (kA)	Prot. Dev. Arcing Fault (kA)	Trip / Delay Time (sec)	Breaker Opening Time (sec)	Equip. Category	BusBar Config	Gap (mm)	Arc Flash Boundary (in)	Working Distance (in)	Incident Energy (cal/cm2)	Analysis Notes / Worse Case Scenario
PAN LP-028	BKR LP-028 60A	0.6	3.29	3.29	2.75	0.0187		AF Power Panel	VCBB	25	4.62	18.00	0.10	(*S0)
PAN PP-001	BKR T4(PP-001)	0.208	2.78	2.78	1.30	2		AF LV Equipment	VCBB	25	43.07	18.00	5.35	(*N9) (*N25d) (*S0)
PAN PP-002	BKR T5(PP-002)	0.208	5.13	5.13	2.21	2		AF LV Equipment	VCBB	25	66.85	18.00	9.77	(*N9) (*N25a) (*N25d) (*S0)
PAN PP-003	BKR T4(PP-003)	0.208	2.75	2.75	1.28	2		AF LV Equipment	VCBB	25	42.72	18.00	5.28	(*N9) (*N25d) (*S0)
PAN PP-004	BKR PP-004 100A	0.208	2.35	2.35	1.09	2		AF LV Equipment	VCBB	25	38.16	18.00	4.40	(*N9) (*N25d) (*S0)
PAN PP-005	BKR PP-005 225A	0.6	14.67	14.67	12.75	0.0161		AF Power Panel	VCBB	25	11.13	18.00	0.50	(*S0)
PAN PP-006	BKR PP-006 100A	0.208	2.82	2.82	1.32	2		AF LV Equipment	VCBB	25	43.57	18.00	5.45	(*N9) (*N25d) (*S0)
PAN PP-007	BKR PP-007 100A	0.208	2.89	2.89	1.35	2		AF LV Equipment	VCBB	25	44.27	18.00	5.59	(*N9) (*N25d) (*S0)
PAN PP-008	BKR PP-008 100A	0.208	6.81	6.81	3.32	0.0172		AF LV Equipment	VCBB	25	5.35	18.00	0.13	(*S0)
PAN PP-010	BKR PP-010 100A	0.208	3.54	3.54	1.48	2		AF LV Equipment	VCBB	25	51.22	18.00	6.38	(*N9) (*N25a) (*N25d) (*S0)
PAN PP-011	BKR PP-011 100A	0.208	3.58	3.58	1.49	1.966		AF LV Equipment	VCBB	25	51.09	18.00	6.36	(*N25a) (*N25d) (*S5)
PAN PP-012	BKR PP-012 100A	0.208	2.67	2.67	1.25	2		AF LV Equipment	VCBB	25	41.90	18.00	5.12	(*N9) (*N25d) (*S0)
PAN PP-013	BKR PP-013 100A	0.208	2.64	2.64	1.23	2		AF LV Equipment	VCBB	25	41.57	18.00	5.05	(*N9) (*N25d) (*S0)
PAN PP-014	BKR PP-014 100A	0.208	2.59	2.59	1.21	2		AF LV Equipment	VCBB	25	40.91	18.00	4.93	(*N9) (*N25d) (*S0)
PAN PP-015	BKR PP-015 100A	0.208	2.35	2.35	1.10	2		AF LV Equipment	VCBB	25	38.25	18.00	4.42	(*N9) (*N25d) (*S0)
PAN PP-016	BKR PP-016 100A	0.208	12.15	12.15	6.23	0.0167		AF LV Equipment	VCBB	25	7.82	18.00	0.27	(*S0)
PAN PP-018	BKR PP-018 200A	0.208	6.50	6.50	2.70	2		AF LV Equipment	VCBB	25	72.79	18.00	12.19	(*N3) (*N9) (*N25d) (*S2)
PAN PP-019	BKR PP-019 200A	0.208	6.44	6.44	2.67	2		AF LV Equipment	VCBB	25	72.00	18.00	12.03	(*N3) (*N9) (*N25d) (*S0)
PAN PP-020	BKR PP-020 200A	0.208	6.44	6.44	2.67	2		AF LV Equipment	VCBB	25	72.00	18.00	12.03	(*N3) (*N9) (*N25d) (*S0)
PAN PP-021	BKR PP-021 200A	0.208	4.77	4.77	2.27	2		AF LV Equipment	VCBB	25	63.42	18.00	10.08	(*N9) (*N25d) (*S0)
PAN PP-022	BKR PP-022 100A	0.208	2.90	2.90	1.36	2		AF LV Equipment	VCBB	25	44.43	18.00	5.63	(*N9) (*N25d) (*S0)
PAN PP-023	BKR PP-023 100A	0.208	5.81	5.81	2.80	0.0185		AF LV Equipment	VCBB	25	5.00	18.00	0.12	(*S0)
PAN PP-024	BKR PP-024 100A	0.208	6.73	6.73	3.27	0.0173		AF LV Equipment	VCBB	25	5.31	18.00	0.13	(*S0)
PAN PP-026	BKR PP-026 100A	0.208	3.67	3.67	1.48	2		AF LV Equipment	VCBB	25	49.20	18.00	6.13	(*N3) (*N9) (*N25d) (*S0)
PAN PP-027	BKR PP-027 100A	0.208	3.51	3.51	1.46	2		AF LV Equipment	VCBB	25	50.90	18.00	6.32	(*N9) (*N25a) (*N25d) (*S0)
PAN PP-028	BKR PP-028 100A	0.208	2.72	2.72	1.27	2		AF LV Equipment	VCBB	25	42.38	18.00	5.21	(*N9) (*N25d) (*S0)
PAN PP-029	BKR PP-029 100A	0.208	2.44	2.44	1.14	2		AF LV Equipment	VCBB	25	39.20	18.00	4.60	(*N9) (*N25d) (*S0)
PAN PP-030	BKR PP-030 100A	0.208	4.34	4.34	1.59	1.522		AF LV Equipment	VCBB	25	45.74	18.00	5.33	(*N3) (*N25a) (*N25d) (*S5)
PAN PP-031	BKR PP-031 100A	0.208	4.27	4.27	1.56	1.647		AF LV Equipment	VCBB	25	47.48	18.00	5.65	(*N3) (*N25a) (*N25d) (*S5)
PAN PP-032	BKR PP-032 100A	0.208	4.39	4.39	1.61	1.437		AF LV Equipment	VCBB	25	44.51	18.00	5.10	(*N3) (*N25a) (*N25d) (*S5)
PAN PP-034	BKR PP-034 100A	0.208	3.88	3.88	1.40	2		AF LV Equipment	VCBB	25	50.01	18.00	6.14	(*N3) (*N9) (*N25a) (*N25d) (*S0)
PAN PP-035	BKR PP-035 100A	0.208	3.75	3.75	1.51	1.898		AF LV Equipment	VCBB	25	48.93	18.00	5.98	(*N3) (*N25d) (*S5)
PAN PP-040	BKR PP-040 800A	0.6	21.63	21.63	18.88	0.14		AF Power Panel	VCBB	25	46.79	18.00	6.76	(*S0)
PAN PP-041	BKR T3(PP-041)	0.208	1.96	1.96	0.91	2		AF LV Equipment	VCBB	25	18.00	18.00	< 1.2	(*N9) (*N15b) (*S0)
PAN PP-042	BKR PP-042 100A	0.208	6.73	6.73	3.28	0.0173		AF LV Equipment	VCBB	25	5.32	18.00	0.13	(*S0)
PAN PP-044	BKR PP-044 200A	0.208	4.31	4.31	2.04	2		AF LV Equipment	VCBB	25	58.96	18.00	8.93	(*N9) (*N25d) (*S0)
PAN PP-045	BKR PP-045 100A	0.208	4.56	4.56	1.68	1.208		AF LV Equipment	VCBB	25	40.99	18.00	4.47	(*N3) (*N25a) (*N25d) (*S5)
PAN PP-046	BKR PP-046 100A	0.208	2.45	2.45	1.14	2		AF LV Equipment	VCBB	25	39.41	18.00	4.64	(*N9) (*N25d) (*S0)
PAN PP-047	BKR PP-047 100A	0.208	2.62	2.62	1.22	2		AF LV Equipment	VCBB	25	41.27	18.00	5.00	(*N9) (*N25d) (*S0)
PAN PP-048	BKR PP-048 200A	0.208	3.69	3.69	1.74	2		AF LV Equipment	VCBB	25	52.80	18.00	7.45	(*N9) (*N25d) (*S0)
PAN PP-049	BKR PP-049 100A	0.208	2.43	2.43	1.13	2		AF LV Equipment	VCBB	25	39.12	18.00	4.58	(*N9) (*N25d) (*S0)
PAN PP-050	BKR PP-050 100A	0.208	2.40	2.40	1.12	2		AF LV Equipment	VCBB	25	38.83	18.00	4.53	(*N9) (*N25d) (*S0)
PAN PP-051	BKR PP-051 100A	0.208	6.41	6.41	3.11	0.0175		AF LV Equipment	VCBB	25	5.18	18.00	0.13	(*S0)
PAN PP-053	BKR PP-053 100A	0.208	2.06	2.06	0.96	2		AF LV Equipment	VCBB	25	34.78	18.00	3.80	(*N9) (*N25d) (*S0)
PAN PP-054	BKR PP-054 100A	0.208	2.04	2.04	0.95	2		AF LV Equipment	VCBB	25	34.56	18.00	3.76	(*N9) (*N25d) (*S0)
PAN PP-055	BKR PP-055 100A	0.208	2.02	2.02	0.94	2		AF LV Equipment	VCBB	25	34.35	18.00	3.72	(*N9) (*N25d) (*S0)
PAN PP-056	BKR PP-056 100A	0.208	2.04	2.04	0.95	2		AF LV Equipment	VCBB	25	34.56	18.00	3.76	(*N9) (*N25d) (*S0)
PAN PP-057	BKR PP-057 100A	0.208	2.08	2.08	0.97	2		AF LV Equipment	VCBB	25	35.00	18.00	3.84	(*N9) (*N25d) (*S0)
PAN PP-058	BKR PP-058 100A	0.208	2.06	2.06	0.96	2		AF LV Equipment	VCBB	25	34.78	18.00	3.80	(*N9) (*N25d) (*S0)
PAN PP-059	BKR PP-059 100A	0.208	5.30	5.30	2.54	0.0165		AF LV Equipment	VCBB	25	4.42	18.00	0.09	(*S0)
PAN PP-061	BKR PP-061 150A	0.208	4.62	4.62	2.20	2		AF LV Equipment	VCBB	25	62.07	18.00	9.72	(*N9) (*N25d) (*S0)
PAN PP-062	BKR PP-062 200A	0.208	3.25	3.25	1.52	2		AF LV Equipment	VCBB	25	48.14	18.00	6.41	(*N9) (*N25d) (*S0)
PAN PP-063	BKR PP-063 150A	0.208	2.58	2.58	1.20	2		AF LV Equipment	VCBB	25	40.85	18.00	4.91	(*N9) (*N25d) (*S0)
PAN PP-064	BKR PP-064 100A	0.208	2.20	2.20	1.03	2		AF LV Equipment	VCBB	25	36.48	18.00	4.10	(*N9) (*N25d) (*S0)
PAN PP-065	BKR PP-065 150A	0.208	2.72	2.72	1.27	2		AF LV Equipment	VCBB	25	42.46	18.00	5.23	(*N9) (*N25d) (*S0)

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Table 5.7 - FLASH HAZARD TABLE FOR PROPOSED SETTINGS

MUN CORE SCIENCE

Date: March 1, 2021

Bus Name	Protective Device Name	kV	Bus Bolted Fault (kA)	Prot. Dev. Bolted Fault (kA)	Prot. Dev. Arcing Fault (kA)	Trip / Delay Time (sec)	Breaker Opening Time (sec)	Equip. Category	BusBar Config	Gap (mm)	Arc Flash Boundary (in)	Working Distance (in)	Incident Energy (cal/cm2)	Analysis Notes / Worse Case Scenario
PAN PP-066	BKR PP-066 100A	0.208	2.29	2.29	1.07	2		AF LV Equipment	VCBB	25	37.49	18.00	4.28	(*N9) (*N25d) (*S0)
PAN PP-067	BKR PP-067 100A	0.208	5.36	5.36	2.57	0.0175		AF LV Equipment	VCBB	25	4.60	18.00	0.10	(*S0)
PAN PP-069	BKR PP-069 150A	0.208	4.35	4.35	2.06	2		AF LV Equipment	VCBB	25	59.37	18.00	9.03	(*N9) (*N25d) (*S0)
PAN PP-070	BKR PP-070 100A	0.208	2.61	2.61	1.22	2		AF LV Equipment	VCBB	25	41.19	18.00	4.98	(*N9) (*N25d) (*S0)
PAN PP-071	BKR PP-071 100A	0.208	2.55	2.55	1.19	2		AF LV Equipment	VCBB	25	40.55	18.00	4.86	(*N9) (*N25d) (*S0)
PAN PP-072	BKR PP-072 100A	0.208	2.42	2.42	1.13	2		AF LV Equipment	VCBB	25	39.05	18.00	4.57	(*N9) (*N25d) (*S0)
PAN PP-073	BKR PP-073 100A	0.208	2.37	2.37	1.11	2		AF LV Equipment	VCBB	25	38.48	18.00	4.46	(*N9) (*N25d) (*S0)
PAN PP-074	BKR PP-074 100A	0.208	2.35	2.35	1.10	2		AF LV Equipment	VCBB	25	38.21	18.00	4.41	(*N9) (*N25d) (*S0)
PAN PP-075	BKR T3(PP-075)	0.208	1.97	1.97	0.92	2		AF LV Equipment	VCBB	25	18.00	18.00	< 1.2	(*N9) (*N15b) (*S0)
PAN PP-083	BKR PP-083 600A	0.6	17.99	17.99	15.70	0.0543		AF Power Panel	VCBB	25	24.83	18.00	2.15	(*S0)
PAN PP-084	BKR T3(PP-084)	0.208	2.08	2.08	0.97	2		AF LV Equipment	VCBB	25	35.00	18.00	3.84	(*N9) (*N25d) (*S0)
PAN PP-085	BKR PP-085 100A	0.208	13.27	13.27	6.85	0.0167		AF LV Equipment	VCBB	25	8.31	18.00	0.30	(*S0)
PAN PP-087	BKR PP-087 200A	0.208	4.59	4.59	2.18	2		AF LV Equipment	VCBB	25	61.77	18.00	9.64	(*N9) (*N25d) (*S0)
PAN PP-088	BKR PP-088 200A	0.208	4.64	4.64	2.21	2		AF LV Equipment	VCBB	25	62.26	18.00	9.77	(*N9) (*N25d) (*S0)
PAN PP-089	BKR PP-089 100A	0.208	3.05	3.05	1.43	2		AF LV Equipment	VCBB	25	46.08	18.00	5.97	(*N9) (*N25d) (*S0)
PAN PP-090	BKR PP-090 100A	0.208	3.01	3.01	1.41	2		AF LV Equipment	VCBB	25	45.65	18.00	5.88	(*N9) (*N25d) (*S0)
PAN PP-091	BKR PP-091 200A	0.208	4.54	4.54	2.16	2		AF LV Equipment	VCBB	25	61.28	18.00	9.52	(*N9) (*N25d) (*S0)
PAN PP-092	BKR PP-092 225A	0.208	4.92	4.92	2.34	2		AF LV Equipment	VCBB	25	64.88	18.00	10.47	(*N9) (*N25d) (*S0)
PAN PP-093	BKR PP-093 200A	0.208	6.41	6.41	2.66	2		AF LV Equipment	VCBB	25	71.79	18.00	11.97	(*N3) (*N9) (*N25d) (*S0)
PAN PP-095	BKR PP-095 100A	0.208	3.04	3.04	1.42	2		AF LV Equipment	VCBB	25	45.90	18.00	5.93	(*N9) (*N25d) (*S0)
PAN PP-096	BKR PP-096 100A	0.208	3.00	3.00	1.40	2		AF LV Equipment	VCBB	25	45.48	18.00	5.84	(*N9) (*N25d) (*S0)
PAN PP-097	BKR PP-097 100A	0.208	2.96	2.96	1.39	2		AF LV Equipment	VCBB	25	45.08	18.00	5.76	(*N9) (*N25d) (*S0)
PAN PP-098	BKR PP-098 100A	0.208	2.93	2.93	1.37	2		AF LV Equipment	VCBB	25	44.69	18.00	5.68	(*N9) (*N25d) (*S0)
PAN PP-099	BKR PP-099 100A	0.208	2.82	2.82	1.32	2		AF LV Equipment	VCBB	25	43.55	18.00	5.45	(*N9) (*N25d) (*S0)
PAN PP-100	BKR PP-100 100A	0.208	2.79	2.79	1.30	2		AF LV Equipment	VCBB	25	43.18	18.00	5.37	(*N9) (*N25d) (*S0)
PAN PP-101	BKR PP-101 100A	0.208	6.14	6.14	2.97	0.0175		AF LV Equipment	VCBB	25	5.03	18.00	0.12	(*S0)
PAN PP-103	BKR PP-103 100A	0.208	4.12	4.12	1.50	2		AF LV Equipment	VCBB	25	52.23	18.00	6.58	(*N3) (*N9) (*N25a) (*N25d) (*S0)
PAN PP-104	BKR PP-104 100A	0.208	2.97	2.97	1.39	2		AF LV Equipment	VCBB	25	45.21	18.00	5.79	(*N9) (*N25d) (*S0)
PAN PP-105	BKR PP-105 100A	0.208	2.87	2.87	1.34	2		AF LV Equipment	VCBB	25	44.04	18.00	5.55	(*N9) (*N25d) (*S0)
PAN PP-106	BKR PP-106 100A	0.208	2.83	2.83	1.32	2		AF LV Equipment	VCBB	25	43.66	18.00	5.47	(*N9) (*N25d) (*S0)
PAN PP-107	BKR PP-107 100A	0.208	2.80	2.80	1.31	2		AF LV Equipment	VCBB	25	43.30	18.00	5.40	(*N9) (*N25d) (*S0)
PAN PP-108	BKR PP-108 200A	0.208	3.73	3.73	1.75	2		AF LV Equipment	VCBB	25	53.14	18.00	7.53	(*N9) (*N25d) (*S0)
PAN PP-109	BKR PP-109 100A	0.208	6.09	6.09	2.94	0.0175		AF LV Equipment	VCBB	25	5.01	18.00	0.12	(*S0)
PAN PP-111	BKR PP-111 100A	0.208	4.37	4.37	2.07	0.0175		AF LV Equipment	VCBB	25	4.02	18.00	0.08	(*S0)
PAN PP-112	BKR PP-112 150A	0.208	3.25	3.25	1.53	2		AF LV Equipment	VCBB	25	48.23	18.00	6.43	(*N9) (*N25d) (*S0)
PAN PP-113	BKR PP-113 100A	0.208	2.92	2.92	1.37	2		AF LV Equipment	VCBB	25	44.68	18.00	5.68	(*N9) (*N25d) (*S0)
PAN PP-114	BKR PP-114 100A	0.208	2.96	2.96	1.38	2		AF LV Equipment	VCBB	25	45.07	18.00	5.76	(*N9) (*N25d) (*S0)
PAN PP-115	BKR PP-115 100A	0.208	3.04	3.04	1.42	2		AF LV Equipment	VCBB	25	45.89	18.00	5.93	(*N9) (*N25d) (*S0)
PAN PP-116	BKR PP-116 100A	0.208	3.07	3.07	1.44	2		AF LV Equipment	VCBB	25	46.30	18.00	6.01	(*N9) (*N25d) (*S0)
PAN PP-117	BKR T3(PP-117)	0.208	1.91	1.91	0.89	2		AF LV Equipment	VCBB	25	18.00	18.00	< 1.2	(*N9) (*N15b) (*S0)
PAN PP-125	BKR PP-125 600A	0.6	17.75	17.75	15.49	0.0545		AF Power Panel	VCBB	25	24.67	18.00	2.12	(*S0)
PAN PP-126	BKR T3(PP-126)	0.208	2.09	2.09	0.98	2		AF LV Equipment	VCBB	25	35.21	18.00	3.87	(*N9) (*N25d) (*S0)
PAN PP-127	BKR PP-127 100A	0.208	5.56	5.56	2.67	0.0175		AF LV Equipment	VCBB	25	4.71	18.00	0.11	(*S0)
PAN PP-128	BKR PP-128 225A	0.6	5.44	5.44	4.59	0.0161		AF Power Panel	VCBB	25	5.86	18.00	0.16	(*S0)
PAN PP-129	BKR PP-129 100A	0.208	2.68	2.68	1.25	2		AF LV Equipment	VCBB	25	41.96	18.00	5.13	(*N9) (*N25d) (*S0)
PAN PP-130	BKR PP-130 100A	0.208	2.68	2.68	1.25	2		AF LV Equipment	VCBB	25	41.96	18.00	5.13	(*N9) (*N25d) (*S0)
PAN PP-135	BKR PP-135 200A	0.208	5.93	5.93	2.59	2		AF LV Equipment	VCBB	25	74.24	18.00	11.55	(*N9) (*N25a) (*N25d) (*S0)
PAN PP-137	BKR PP-137 100A	0.208	3.12	3.12	1.46	2		AF LV Equipment	VCBB	25	46.85	18.00	6.13	(*N9) (*N25d) (*S0)
PAN PP-138	BKR PP-138 100A	0.208	3.17	3.17	1.48	2		AF LV Equipment	VCBB	25	47.29	18.00	6.22	(*N9) (*N25d) (*S0)
PAN PP-139	BKR PP-139 100A	0.208	2.64	2.64	1.23	2		AF LV Equipment	VCBB	25	41.54	18.00	5.05	(*N9) (*N25d) (*S0)
PAN PP-140	BKR PP-140 100A	0.208	2.61	2.61	1.22	2		AF LV Equipment	VCBB	25	41.22	18.00	4.98	(*N9) (*N25d) (*S0)
PAN PP-141	BKR PP-141 100A	0.208	2.61	2.61	1.22	2		AF LV Equipment	VCBB	25	41.22	18.00	4.98	(*N9) (*N25d) (*S0)
PAN PP-142	BKR PP-142 100A	0.208	3.58	3.58	1.50	2		AF LV Equipment	VCBB	25	51.68	18.00	6.47	(*N9) (*N25a) (*N25d) (*S0)
PAN PP-143	BKR PP-143 100A	0.208	5.66	5.66	2.72	0.0175		AF LV Equipment	VCBB	25	4.77	18.00	0.11	(*S0)
PAN PP-145	BKR PP-145 100A	0.208	2.64	2.64	1.23	2		AF LV Equipment	VCBB	25	41.58	18.00	5.06	(*N9) (*N25d) (*S0)

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Table 5.7 - FLASH HAZARD TABLE FOR PROPOSED SETTINGS

MUN CORE SCIENCE

Date: March 1, 2021

Bus Name	Protective Device Name	kV	Bus Bolted Fault (kA)	Prot. Dev. Bolted Fault (kA)	Prot. Dev. Arcing Fault (kA)	Trip / Delay Time (sec)	Breaker Opening Time (sec)	Equip. Category	BusBar Config	Gap (mm)	Arc Flash Boundary (in)	Working Distance (in)	Incident Energy (cal/cm2)	Analysis Notes / Worse Case Scenario
PAN PP-146	BKR PP-146 200A	0.208	3.49	3.49	1.64	2		AF LV Equipment	VCBB	25	50.72	18.00	6.98	(*N9) (*N25d) (*S0)
PAN PP-147	BKR PP-147 100A	0.208	2.59	2.59	1.21	2		AF LV Equipment	VCBB	25	40.93	18.00	4.93	(*N9) (*N25d) (*S0)
PAN PP-148	BKR PP-148 100A	0.208	2.50	2.50	1.17	2		AF LV Equipment	VCBB	25	40.00	18.00	4.75	(*N9) (*N25d) (*S0)
PAN PP-149	BKR PP-149 100A	0.208	2.48	2.48	1.16	2		AF LV Equipment	VCBB	25	39.70	18.00	4.69	(*N9) (*N25d) (*S0)
PAN PP-150	BKR PP-150 150A	0.208	2.50	2.50	1.17	2		AF LV Equipment	VCBB	25	39.95	18.00	4.74	(*N9) (*N25d) (*S0)
PAN PP-151	BKR PP-151 100A	0.208	5.62	5.62	2.70	0.0175		AF LV Equipment	VCBB	25	4.75	18.00	0.11	(*S0)
PAN PP-153	BKR PP-153 100A	0.208	3.52	3.52	1.47	2		AF LV Equipment	VCBB	25	51.02	18.00	6.34	(*N9) (*N25a) (*N25d) (*S0)
PAN PP-154	BKR PP-154 100A	0.208	2.50	2.50	1.16	2		AF LV Equipment	VCBB	25	39.89	18.00	4.73	(*N9) (*N25d) (*S0)
PAN PP-155	BKR PP-155 100A	0.208	2.42	2.42	1.13	2		AF LV Equipment	VCBB	25	39.01	18.00	4.56	(*N9) (*N25d) (*S0)
PAN PP-156	BKR PP-156 100A	0.208	2.35	2.35	1.09	2		AF LV Equipment	VCBB	25	38.17	18.00	4.41	(*N9) (*N25d) (*S0)
PAN PP-157	BKR PP-157 100A	0.208	2.19	2.19	1.02	2		AF LV Equipment	VCBB	25	36.38	18.00	4.08	(*N9) (*N25d) (*S0)
PAN PP-158	BKR PP-158 100A	0.208	2.15	2.15	1.00	2		AF LV Equipment	VCBB	25	35.90	18.00	3.99	(*N9) (*N25d) (*S0)
PAN PP-167	BKR PP-167	0.6	16.04	16.04	13.97	0.2		AF Power Panel	VCBB	25	47.31	18.00	6.89	(*S0)
PAN PP-168	BKR T3(PP-168)	0.208	2.09	2.09	0.97	2		AF LV Equipment	VCBB	25	35.10	18.00	3.85	(*N9) (*N25d) (*S0)
PAN PP-175	BKR PP-175 100A	0.208	5.39	5.39	2.58	0.0197		AF LV Equipment	VCBB	25	4.92	18.00	0.11	(*S0)
PAN PP-177	BKR PP-177 100A	0.208	2.75	2.75	1.29	2		AF LV Equipment	VCBB	25	42.81	18.00	5.30	(*N9) (*N25d) (*S0)
PAN PP-178	BKR PP-178 100A	0.208	2.75	2.75	1.29	2		AF LV Equipment	VCBB	25	42.81	18.00	5.30	(*N9) (*N25d) (*S0)
PAN PP-179	BKR PP-179 100A	0.208	2.25	2.25	1.05	2		AF LV Equipment	VCBB	25	37.11	18.00	4.21	(*N9) (*N25d) (*S0)
PAN PP-180	BKR PP-180 100A	0.208	2.69	2.69	1.26	2		AF LV Equipment	VCBB	25	42.11	18.00	5.16	(*N9) (*N25d) (*S0)
PAN PP-181	BKR PP-181 100A	0.208	2.69	2.69	1.26	2		AF LV Equipment	VCBB	25	42.11	18.00	5.16	(*N9) (*N25d) (*S0)
PAN PP-182	BKR PP-182 100A	0.208	3.67	3.67	1.48	2		AF LV Equipment	VCBB	25	49.04	18.00	6.14	(*N3) (*N9) (*N25d) (*S0)
PAN PP-183	BKR PP-183 100A	0.208	9.31	9.31	4.66	0.0175		AF LV Equipment	VCBB	25	6.69	18.00	0.20	(*S0)
PAN PP-185	BKR PP-185 200A	0.208	3.72	3.72	1.75	2		AF LV Equipment	VCBB	25	53.04	18.00	7.50	(*N9) (*N25d) (*S0)
PAN PP-186	BKR PP-186 200A	0.208	3.41	3.41	1.60	2		AF LV Equipment	VCBB	25	49.86	18.00	6.78	(*N9) (*N25d) (*S0)
PAN PP-187	BKR PP-187 150A	0.208	2.86	2.86	1.34	2		AF LV Equipment	VCBB	25	43.96	18.00	5.53	(*N9) (*N25d) (*S0)
PAN PP-188	BKR PP-188 200A	0.208	3.75	3.75	1.76	2		AF LV Equipment	VCBB	25	53.38	18.00	7.58	(*N9) (*N25d) (*S0)
PAN PP-189	BKR PP-189 200A	0.208	3.72	3.72	1.75	2		AF LV Equipment	VCBB	25	53.04	18.00	7.50	(*N9) (*N25d) (*S0)
PAN PP-190	BKR PP-190 100A	0.208	2.41	2.41	1.13	2		AF LV Equipment	VCBB	25	38.97	18.00	4.55	(*N9) (*N25d) (*S0)
PAN PP-191	BKR PP-191 100A	0.208	5.31	5.31	2.54	0.0175		AF LV Equipment	VCBB	25	4.57	18.00	0.10	(*S0)
PAN PP-193	BKR PP-193 150A	0.208	4.39	4.39	2.08	2		AF LV Equipment	VCBB	25	59.78	18.00	9.13	(*N9) (*N25d) (*S0)
PAN PP-194	BKR PP-194 100A	0.208	3.00	3.00	1.41	2		AF LV Equipment	VCBB	25	45.56	18.00	5.86	(*N9) (*N25d) (*S0)
PAN PP-195	BKR PP-195 150A	0.208	2.81	2.81	1.31	2		AF LV Equipment	VCBB	25	43.46	18.00	5.43	(*N9) (*N25d) (*S0)
PAN PP-196	BKR PP-196 150A	0.208	2.79	2.79	1.30	2		AF LV Equipment	VCBB	25	43.17	18.00	5.37	(*N9) (*N25d) (*S0)
PAN PP-197	BKR PP-197 100A	0.208	2.24	2.24	1.04	2		AF LV Equipment	VCBB	25	36.92	18.00	4.18	(*N9) (*N25d) (*S0)
PAN PP-198	BKR PP-198 100A	0.208	2.16	2.16	1.00	2		AF LV Equipment	VCBB	25	35.94	18.00	4.00	(*N9) (*N25d) (*S0)
PAN PP-199	BKR T3(PP-199)	0.208	1.80	1.80	0.84	2		AF LV Equipment	VCBB	25	18.00	18.00	< 1.2	(*N9) (*N15b) (*S0)
PAN PP-207	BKR PP-207 600A	0.6	13.50	13.50	11.71	0.0585		AF Power Panel	VCBB	25	21.53	18.00	1.66	(*S0)
PAN PP-208	BKR T3(PP-208)	0.208	2.07	2.07	0.96	2		AF LV Equipment	VCBB	25	34.92	18.00	3.82	(*N9) (*N25d) (*S0)
PAN PP-209	BKR PP-209	0.6	13.64	13.64	11.84	0.2		AF Power Panel	VCBB	25	42.67	18.00	5.72	(*S0)
PAN PP-210	BKR PP-210	0.6	14.37	14.37	12.49	0.2		AF Power Panel	VCBB	25	44.11	18.00	6.07	(*S0)
PAN PP-211	BKR T9(PP-211) 300kVA	0.48	5.40	5.40	3.73	1.966		AF Power Panel	VCBB	25	76.26	18.00	15.03	(*N3) (*N25d) (*S5)
PAN UPS-SIMS-1	BKR UPS-SIMS-1 60A	0.208	0.71	0.71	0.34	2		AF LV Equipment	VCBB	25	17.72	18.00	1.17	(*N9) (*N15b) (*S0)
PAN UPS-SIMS-2	BKR UPS-SIMS-2 100A	0.208	1.73	1.73	0.81	2		AF LV Equipment	VCBB	25	18.00	18.00	< 1.2	(*N9) (*N15b) (*S0)
SW ATS CH-1.1(N)	BKR ATS-CH-1.1(N)	0.6	29.91	29.91	25.75	0.06		AF LV Equipment	VCBB	25	39.24	18.00	4.91	(*S0)
SW ATS CH-1.2(N)	BKR ATS-CH-1.2(N)	0.6	31.85	31.85	27.27	0.06		AF LV Equipment	VCBB	25	40.67	18.00	5.24	(*S0)
SW ATS S-A(N)	BKR ATS-S-A(N)	0.6	34.07	34.07	28.95	0.06		AF LV Equipment	VCBB	25	42.21	18.00	5.61	(*S0)
SW ATS S-B(N)	BKR ATS-S-B(N)	0.6	33.98	33.98	28.88	0.06		AF LV Equipment	VCBB	25	42.14	18.00	5.59	(*S0)
SW ATS-E-A (E)	BKR ATS-E-A(E)	0.6	28.02	28.02	24.24	0.05		AF LV Equipment	VCBB	25	34.16	18.00	3.82	(*S6)
SW ATS-E-B (E)	BKR ATS-E-B(E)	0.6	28.60	28.60	24.71	0.05		AF LV Equipment	VCBB	25	34.57	18.00	3.91	(*S6)
SW ATS-E-E (E)	BKR ATS-E-E(E)	0.6	28.60	28.60	24.71	0.05		AF LV Equipment	VCBB	25	34.57	18.00	3.91	(*S6)
SW ATS-EL-A (E)	BKR ATS-EL-A(E)	0.6	24.32	24.32	21.18	0.0161		AF LV Equipment	VCBB	25	16.78	18.00	1.06	(*S6)
SW ATS-EL-B (E)	BKR ATS-EL-B(E)	0.6	24.90	24.90	21.66	0.0161		AF LV Equipment	VCBB	25	17.02	18.00	1.08	(*S6)
SW ATS-EL-E (E)	BKR ATS-EL-E(E)	0.6	26.68	26.68	23.14	0.0161		AF LV Equipment	VCBB	25	17.74	18.00	1.17	(*S6)
SW ATS-S-E (N)	BKR ATS-S-E(N)	0.6	32.11	32.11	27.47	0.06		AF LV Equipment	VCBB	25	40.85	18.00	5.28	(*S0)
SW ATS-U-A (E)	BKR ATS-U-A(E)	0.6	26.42	26.42	22.93	0.0161		AF LV Equipment	VCBB	25	17.64	18.00	1.16	(*S6)

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Table 5.7 - FLASH HAZARD TABLE FOR PROPOSED SETTINGS

MUN CORE SCIENCE

Date: March 1, 2021

Bus Name	Protective Device Name	kV	Bus Bolted Fault (kA)	Prot. Dev. Bolted Fault (kA)	Prot. Dev. Arcing Fault (kA)	Trip / Delay Time (sec)	Breaker Opening Time (sec)	Equip. Category	BusBar Config	Gap (mm)	Arc Flash Boundary (in)	Working Distance (in)	Incident Energy (cal/cm2)	Analysis Notes / Worse Case Scenario
SW ATS-U-B (E)	BKR ATS-U-B(E)	0.6	27.06	27.06	23.46	0.0161		AF LV Equipment	VCBB	25	17.89	18.00	1.19	(*S6)
SW ATS-U-E (E)	BKR ATS-U-E(E)	0.6	27.72	27.72	23.99	0.0161		AF LV Equipment	VCBB	25	18.14	18.00	1.22	(*S6)
SW T-10(1) 380V	BKR T-10(1)	0.38	0.90	0.90	0.63	2		AF LV Equipment	VCBB	25	26.53	18.00	2.42	(*N9) (*S0)
SW T-10(1) 600V	BKR T-10(1)	0.6	1.50	1.50	1.25	0.0232		AF LV Equipment	VCBB	25	3.48	18.00	0.06	(*S0)
SW T-10(2) 380V	BKR T-10(2)	0.38	0.90	0.90	0.63	2		AF LV Equipment	VCBB	25	26.53	18.00	2.42	(*N9) (*S0)
SW T-10(2) 600V	BKR T-10(2)	0.6	1.50	1.50	1.25	0.0232		AF LV Equipment	VCBB	25	3.48	18.00	0.06	(*S0)
SW T-10(3) 380V	BKR T-10(3)	0.38	1.08	1.08	0.75	1.984		AF LV Equipment	VCBB	25	29.37	18.00	2.91	(*S5)
SW T-10(3) 600V	BKR T-10(3)	0.6	7.52	7.52	6.41	0.0162		AF LV Equipment	VCBB	25	7.96	18.00	0.27	(*S0)
SW T1-3MVA	RLY SWG-2	12.5	19.12	19.09	19.09	0.0167	0.08	AF 15kV Equipment	VCBB	152	124.06	36.00	14.19	(*N5) (*N_box) (*S0)
SW T2-3MVA	RLY SWG-2	12.5	19.19	19.19	19.19	0.0167	0.08	AF 15kV Equipment	VCBB	152	124.28	36.00	14.24	(*N5) (*N_box) (*S0)
SW T3-3MVA	RLY SWG-2	12.5	19.31	19.31	19.31	0.0167	0.08	AF 15kV Equipment	VCBB	152	124.65	36.00	14.33	(*N5) (*N_box) (*S0)
SW T4-3MVA	RLY SWG-2	12.5	19.40	19.40	19.40	0.0167	0.08	AF 15kV Equipment	VCBB	152	124.93	36.00	14.39	(*N5) (*N_box) (*S0)
SWGR EARTH SCIENCE	RLY MUN-09	12.5	22.04	22.04	19.86	0.0167	0.08	AF 15kV Switchgear	HCB	152	89.85	36.00	5.50	(*S0)
SWGR SG-1A - FEEDER SECTION (LOAD)	BKR SG-1A MAIN	0.6	36.23	35.49	26.52	0.32		AF Switchgear	HCB	32	113.42	24.00	26.27	(*N25e) (*S0)
SWGR SG-1A - MAIN SECTION (LINE)	RLY T1	0.6	36.23	35.49	26.52	0.5	0.08	AF Switchgear	HCB	32	164.72	24.00	47.69	(*N25e) (*S0)
SWGR SG-1B - FEEDER SECTION (LOAD)	BKR SG-1B MAIN	0.6	34.86	34.86	26.23	0.32		AF Switchgear	HCB	32	111.98	24.00	25.75	(*N25e) (*S0)
SWGR SG-1B - MAIN SECTION (LINE)	RLY T2	0.6	34.86	34.86	26.23	0.5	0.08	AF Switchgear	HCB	32	187.87	24.00	46.84	(*N25e) (*S0)
SWGR SG-2A - FEEDER SECTION (LOAD)	BKR SG-2A MAIN	0.6	35.74	35.74	26.78	0.32		AF Switchgear	HCB	32	113.52	24.00	26.31	(*N25e) (*S0)
SWGR SG-2A - MAIN SECTION (LINE)	RLY T3	0.6	35.74	35.74	26.78	0.5	0.08	AF Switchgear	HCB	32	165.07	24.00	47.85	(*N25e) (*S0)
SWGR SG-2B - FEEDER SECTION (LOAD)	BKR SG-2B MAIN	0.6	35.36	35.36	26.54	0.32		AF Switchgear	HCB	32	112.86	24.00	26.06	(*N25e) (*S0)
SWGR SG-2B - MAIN SECTION (LINE)	RLY T4	0.6	35.36	35.36	26.54	0.5	0.08	AF Switchgear	HCB	32	189.33	24.00	47.42	(*N25e) (*S0)
SWGR SG-G	BKR SG-G(1) TIE	0.6	34.40	16.84	4.78	2		AF Switchgear	HCB	32	199.86	24.00	65.36	(*N9) (*N16) (*N25e) (*S6)
SWGR SWG-1	RLY SWG-2	12.5	19.85	19.81	17.85	0.0167	0.08	AF 15kV Switchgear	HCB	152	84.08	36.00	4.93	(*N5) (*S0)
SWGR SWG-2	RLY SWG-2	12.5	19.85	19.81	17.85	0.0167	0.08	AF 15kV Switchgear	HCB	152	84.08	36.00	4.93	(*S0)
TIE DPE-002,DPE-003	FU ATS S-B(N)	0.6	27.44	27.44	22.30			AF LV Equipment	VCBB	25	52.40	18.00	6.62	(*N4a) (*N5) (*N25a) (*N25d) (*S5)
TIE DPE-003,DPE-004	FU ATS S-B(N)	0.6	26.23	26.23	21.42			AF LV Equipment	VCBB	25	56.06	18.00	7.37	(*N4a) (*N5) (*N25a) (*N25d) (*S5)
TIE DPE-005,DPE-006	BKR DPE-005 TIE	0.6	16.47	16.47	14.35	0.05		AF LV Equipment	VCBB	25	24.61	18.00	2.11	(*S0)
TIE DPE-006/007	BKR DPE-007 TIE	0.6	16.31	16.31	14.21	0.05		AF LV Equipment	VCBB	25	24.45	18.00	2.09	(*S0)
TIE DPE-008,DPE-009	FU ATS-EL-A (E)	0.6	22.38	22.38	19.52	0.01		AF LV Equipment	VCBB	25	12.26	18.00	0.60	(*N5) (*S6)
TIE DPE-009,DPE-010	FU ATS-EL-E (E)	0.6	24.53	24.53	21.35	0.01		AF LV Equipment	VCBB	25	12.96	18.00	0.66	(*N5) (*S6)
TIE DPE-011,DPE-012	FU ATS-U-A (E)	0.6	24.24	24.24	21.11	0.01		AF LV Equipment	VCBB	25	12.87	18.00	0.65	(*N5) (*S6)
TIE DPE-012,DPE-013	FU ATS-U-E (E)	0.6	25.40	25.40	22.09	0.01		AF LV Equipment	VCBB	25	13.24	18.00	0.69	(*N5) (*S6)
TIE DPE-014,DPE-015	BKR DPE-014 TIE	0.6	14.58	14.58	4.90	2		AF LV Equipment	VCBB	25	115.36	18.00	28.97	(*N9) (*N16) (*N25d) (*S7)
TIE DPE-015,DPE-016	BKR DPE-016 TIE	0.6	14.26	14.26	4.86	2		AF LV Equipment	VCBB	25	114.52	18.00	28.60	(*N9) (*N16) (*N25d) (*S7)

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Table 5.7 - FLASH HAZARD TABLE FOR PROPOSED SETTINGS

MUN CORE SCIENCE

Date: March 1, 2021

Bus Name	Protective Device Name	kV	Bus Bolted Fault (kA)	Prot. Dev. Bolted Fault (kA)	Prot. Dev. Arcing Fault (kA)	Trip / Delay Time (sec)	Breaker Opening Time (sec)	Equip. Category	BusBar Config	Gap (mm)	Arc Flash Boundary (in)	Working Distance (in)	Incident Energy (cal/cm2)	Analysis Notes / Worse Case Scenario

Notes:

(*N_box) - Out of IEEE 1584 Box Range. Lee Equation Used. Consider NESC/EPRI method to compare
(*N2) < 99% Cleared Fault Threshold
(*N3) - Arcing Current Low Tolerances Used
(*N4a) - Equipment Specific Equations Used
(*N5) - Miscoordinated, Upstream Device Tripped
(*N9) - Max Arcing Duration Reached
(*N15b) - Apply exception if Bolted Fault Current < 2000 A (IEEE 1584 2018 Section 4.3)
(*N16) - Trip Time Recalculated
(*N25a) - IE VCB > VCBB, (*N25d) - FB VCB > VCBB, (*N25e) - FB VCB > HCB
IEEE 1584 2018 Bus + Line Side - Comprehensive Fault99% Cleared Fault Threshold, mis-coordination checked

Worst Case:

(*S0) - ULTIMATE
(*S1) - MAX OLD_SUB
(*S2) - MAX LONG_POND, M-OFF
(*S3) - MIN LONG_POND, M-OFF
(*S4) - MIN LONG_POND, TIE-A
(*S5) - MIN LONG_POND, TIE-B
(*S6) - GENERATORS (x2)
(*S7) - GENERATORS (x1)

Incident Energy <= 12cal/cm2
12 cal/cm^2 < Incident Energy < 40cal/cm^2
Incident Energy > 40cal/cm^2

5.7.2 Maintenance Activated (Generator Operation not considered)

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Table 5.7 - FLASH HAZARD TABLE FOR PROPOSED SETTINGS

MUN CORE SCIENCE

ERMS (MAINTENANCE SWITCH) ACTIVATED - UTILITY ONLY

Date: February 24, 2021

Bus Name	Protective Device Name	kV	Bus Bolted Fault (kA)	Prot. Dev. Bolted Fault (kA)	Prot. Dev. Arcing Fault (kA)	Trip / Delay Time (sec)	Breaker Opening Time (sec)	Equip. Category	BusBar Config	Gap (mm)	Arc Flash Boundary (in)	Working Distance (in)	Incident Energy (cal/cm2)	Analysis Notes / Worse Case Scenario
ATS-CH-1.1	FU ATS CH-1.1(N)	0.6	26.62	26.62	21.70			AF LV Equipment	VCBB	25	18.92	18.00	1.30	(*N4a) (*N25a) (*N25d) (*S5)
ATS-CH-1.2	FU ATS CH-1.2(N)	0.6	28.11	28.11	22.79			AF LV Equipment	VCBB	25	18.09	18.00	1.21	(*N4a) (*N25a) (*N25d) (*S5)
ATS-EM-A	BKR ATS-EM-A(N)	0.6	34.16	33.42	28.38	0.06		AF LV Equipment	VCBB	25	42.38	18.00	5.65	(*S0)
ATS-EM-B	BKR ATS-EM-B(N)	0.6	33.47	33.47	28.50	0.06		AF LV Equipment	VCBB	25	41.80	18.00	5.51	(*S0)
ATS-EM-E	BKR ATS-EM-E(N)	0.6	33.63	33.63	28.62	0.06		AF LV Equipment	VCBB	25	41.91	18.00	5.54	(*S0)
ATS-S-A	FU ATS-S-A (E)	0.6	29.29	29.29	23.62			AF LV Equipment	VCBB	25	46.91	18.00	5.55	(*N4a) (*N25a) (*N25d) (*S5)
ATS-S-B	FU ATS S-B(N)	0.6	29.71	29.71	23.92			AF LV Equipment	VCBB	25	45.68	18.00	5.31	(*N4a) (*N25a) (*N25d) (*S5)
ATS-S-E	FU ATS-S-E (N)	0.6	28.28	28.28	22.91			AF LV Equipment	VCBB	25	49.90	18.00	6.12	(*N4a) (*N25a) (*N25d) (*S5)
INPUT VFD CH-1.1	FU ATS CH-1.1(N)	0.6	22.12	22.12	18.29			AF Power Panel	VCBB	25	21.29	18.00	1.57	(*N4a) (*N25a) (*N25d) (*S5)
INPUT VFD CH-1.2	FU ATS CH-1.2(N)	0.6	24.89	24.89	20.42			AF Power Panel	VCBB	25	19.85	18.00	1.40	(*N4a) (*N25a) (*N25d) (*S5)
INPUT VFD CH-1.3	BKR CH-1.3	0.6	32.31	32.31	27.62	0.06		AF Power Panel	VCBB	25	37.35	18.00	4.49	(*S0)
PAN DP-004	BKR DP-004	0.6	34.27	34.27	29.10	0.06		AF Power Panel	VCBB	25	38.58	18.00	4.77	(*S0)
PAN DP-005	BKR DP-005	0.6	34.52	34.52	26.73	0.06		AF Switchboard	HCB	25	43.88	18.00	7.32	(*S0)
PAN DP-006	BKR DP-006	0.6	32.77	32.77	27.97	0.06		AF Power Panel	VCBB	25	37.65	18.00	4.56	(*S0)
PAN DP-007	BKR DP-007	0.6	33.78	33.78	28.73	0.06		AF Power Panel	VCBB	25	38.28	18.00	4.70	(*S0)
PAN DP-008	BKR DP-008	0.6	33.98	33.98	26.37	0.06		AF Switchboard	HCB	25	43.57	18.00	7.22	(*S0)
PAN DP-009	BKR DP-009	0.6	34.27	34.27	29.10	0.06		AF Power Panel	VCBB	25	38.58	18.00	4.77	(*S0)
PAN DP-010	BKR DP-010	0.6	34.44	34.44	26.68	0.06		AF Switchboard	HCB	25	43.83	18.00	7.31	(*S0)
PAN DP-011	BKR DP-011	0.6	33.33	33.33	25.94	0.06		AF Switchboard	HCB	25	43.21	18.00	7.10	(*S0)
PAN DP-012	BKR DP-012	0.6	33.22	33.22	28.31	0.06		AF Power Panel	VCBB	25	37.93	18.00	4.62	(*S0)
PAN DP-013	BKR DP-013	0.6	33.78	33.78	26.25	0.06		AF Switchboard	HCB	25	43.47	18.00	7.18	(*S0)
PAN DP-014	BKR DP-014	0.6	32.91	32.91	28.07	0.06		AF Power Panel	VCBB	25	37.73	18.00	4.58	(*S0)
PAN DP-018	BKR DP-018	0.6	28.31	28.31	24.48	0.06		AF Power Panel	VCBB	25	34.64	18.00	3.92	(*S0)
PAN DP-101	BKR DP-101	0.6	34.11	34.11	28.98	0.06		AF Power Panel	VCBB	25	38.49	18.00	4.74	(*S0)
PAN DP-102	BKR DP-102	0.6	31.75	31.75	27.19	0.06		AF Power Panel	VCBB	25	36.99	18.00	4.42	(*S0)
PAN DP-103	BKR DP-103	0.6	32.58	32.58	27.82	0.06		AF Power Panel	VCBB	25	37.52	18.00	4.53	(*S0)
PAN DPE-002	FU ATS S-B(N)	0.6	27.35	27.35	22.24			AF Power Panel	VCBB	25	52.67	18.00	6.67	(*N4a) (*N5) (*N25a) (*N25d) (*S5)
PAN DPE-003	FU ATS-S-E (N)	0.6	25.01	25.01	20.51			AF Power Panel	VCBB	25	59.82	18.00	8.18	(*N4a) (*N5) (*N25a) (*N25d) (*S4)
PAN DPE-004	FU ATS S-B(N)	0.6	26.15	26.15	21.35			AF Power Panel	VCBB	25	56.32	18.00	7.43	(*N4a) (*N5) (*N25a) (*N25d) (*S5)
PAN DPE-014	BKR ATS-EM-A(N)	0.6	32.41	31.67	24.75	0.06		AF Switchboard	HCB	25	42.84	18.00	6.98	(*S0)
PAN DPE-015	BKR ATS-EM-B(N)	0.6	32.26	32.26	25.23	0.06		AF Switchboard	HCB	25	42.59	18.00	6.89	(*N5) (*S0)
PAN DPE-016	BKR ATS-EM-E(N)	0.6	32.66	32.66	25.50	0.06		AF Switchboard	HCB	25	42.82	18.00	6.97	(*N5) (*S0)
SW ATS CH-1.1(N)	BKR ATS-CH-1.1(N)	0.6	29.91	29.91	25.75	0.06		AF LV Equipment	VCBB	25	39.24	18.00	4.91	(*S0)
SW ATS CH-1.2(N)	BKR ATS-CH-1.2(N)	0.6	31.85	31.85	27.27	0.06		AF LV Equipment	VCBB	25	40.67	18.00	5.24	(*S0)
SW ATS S-A(N)	BKR ATS-S-A(N)	0.6	34.07	34.07	28.95	0.06		AF LV Equipment	VCBB	25	42.21	18.00	5.61	(*S0)
SW ATS S-B(N)	BKR ATS-S-B(N)	0.6	33.98	33.98	28.88	0.06		AF LV Equipment	VCBB	25	42.14	18.00	5.59	(*S0)
SW ATS-S-E (N)	BKR ATS-S-E(N)	0.6	32.11	32.11	27.47	0.06		AF LV Equipment	VCBB	25	40.85	18.00	5.28	(*S0)
SWGR SG-1A - FEEDER SECTION (LOAD)	BKR SG-1A MAIN	0.6	36.23	35.49	26.52	0.06		AF Switchgear	HCB	32	48.89	24.00	5.09	(*S0)
SWGR SG-1A - MAIN SECTION (LINE)	RLY T1	0.6	36.23	35.49	26.52	0.2	0.08	AF Switchgear	HCB	32	105.18	24.00	23.29	(*N25e) (*S0)
SWGR SG-1B - FEEDER SECTION (LOAD)	BKR SG-1B MAIN	0.6	34.86	34.86	26.23	0.06		AF Switchgear	HCB	32	47.93	24.00	4.89	(*S0)
SWGR SG-1B - MAIN SECTION (LINE)	RLY T2	0.6	34.86	34.86	26.23	0.2	0.08	AF Switchgear	HCB	32	103.80	24.00	22.81	(*N25e) (*S0)
SWGR SG-2A - FEEDER SECTION (LOAD)	BKR SG-2A MAIN	0.6	35.74	35.74	26.78	0.06		AF Switchgear	HCB	32	48.45	24.00	4.99	(*S0)
SWGR SG-2A - MAIN SECTION (LINE))	RLY T3	0.6	35.74	35.74	26.78	0.2	0.08	AF Switchgear	HCB	32	105.22	24.00	23.30	(*N25e) (*S0)
SWGR SG-2B - FEEDER SECTION (LOAD)	BKR SG-2B MAIN	0.6	35.36	35.36	26.54	0.06		AF Switchgear	HCB	32	48.23	24.00	4.95	(*S0)
SWGR SG-2B - MAIN SECTION (LINE)	RLY T4	0.6	35.36	35.36	26.54	0.2	0.08	AF Switchgear	HCB	32	104.61	24.00	23.09	(*N25e) (*S0)
TIE DPE-014,DPE-015	BKR DPE-014 TIE	0.6	32.29	32.29	27.60	0.06		AF LV Equipment	VCBB	25	40.97	18.00	5.31	(*S0)
TIE DPE-015,DPE-016	BKR DPE-016 TIE	0.6	32.53	32.53	27.79	0.06		AF LV Equipment	VCBB	25	41.15	18.00	5.35	(*S0)

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Table 5.7 - FLASH HAZARD TABLE FOR PROPOSED SETTINGS

MUN CORE SCIENCE

ERMS (MAINTENANCE SWITCH) ACTIVATED - UTILITY ONLY

Date: February 24, 2021

Bus Name	Protective Device Name	kV	Bus Bolted Fault (kA)	Prot. Dev. Bolted Fault (kA)	Prot. Dev. Arcing Fault (kA)	Trip / Delay Time (sec)	Breaker Opening Time (sec)	Equip. Category	BusBar Config	Gap (mm)	Arc Flash Boundary (in)	Working Distance (in)	Incident Energy (cal/cm2)	Analysis Notes / Worse Case Scenario

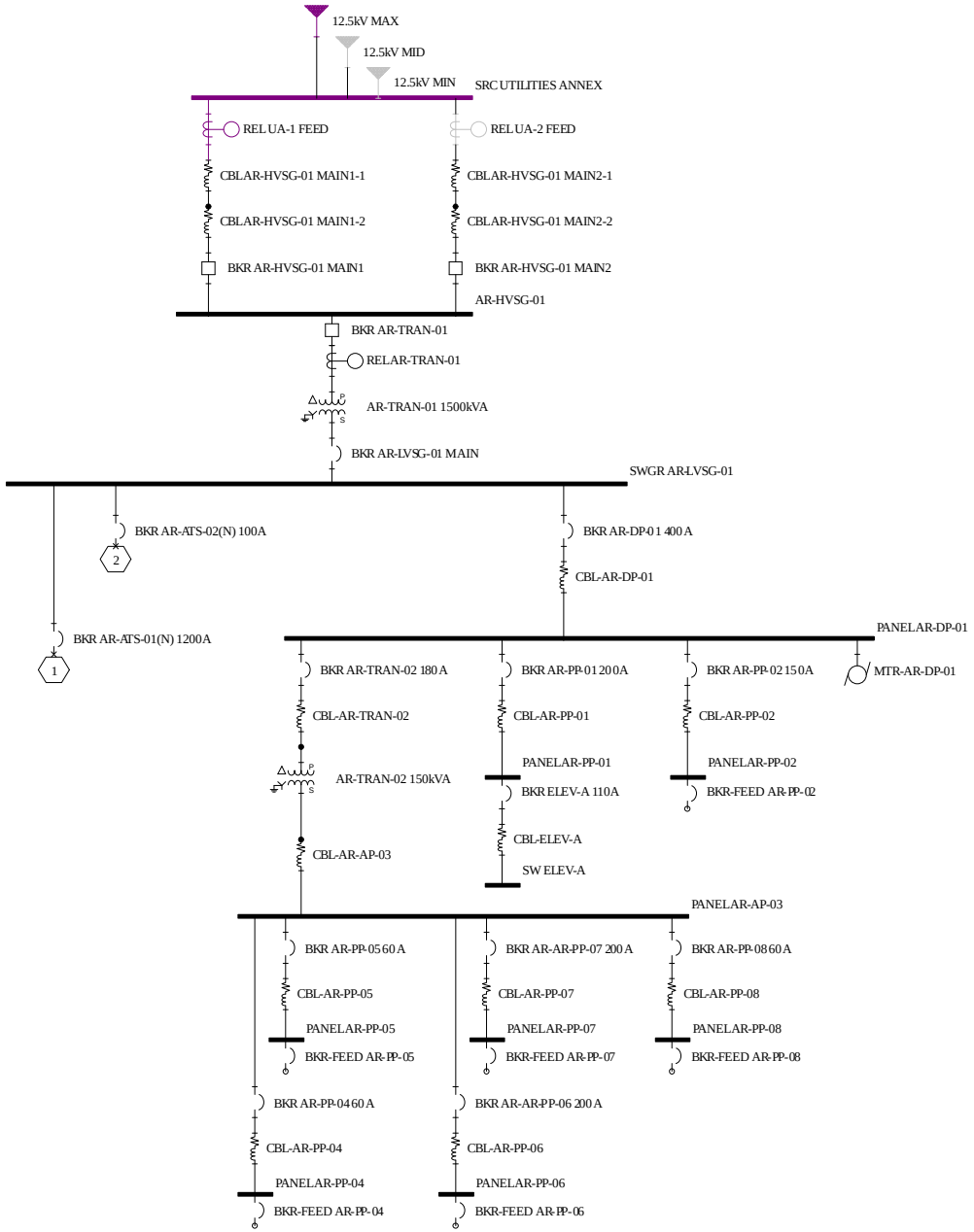
Notes:

(*N2) < 99% Cleared Fault Threshold
(*N3) - Arcing Current Low Tolerances Used
(*N4a) - Equipment Specific Equations Used
(*N5) - Miscoordinated, Upstream Device Tripped
(*N9) - Max Arcing Duration Reached
(*N15b) - Apply exception if Bolted Fault Current < 2000 A (IEEE 1584 2018 Section 4.3)
(*N16) - Trip Time Recalculated
(*N25a) - IE VCB > VCBB, (*N25d) - FB VCB > VCBB, (*N25e) - FB VCB > HCB
IEEE 1584 2018 Bus + Line Side - Comprehensive Fault99% Cleared Fault Threshold, mis-coordination checked

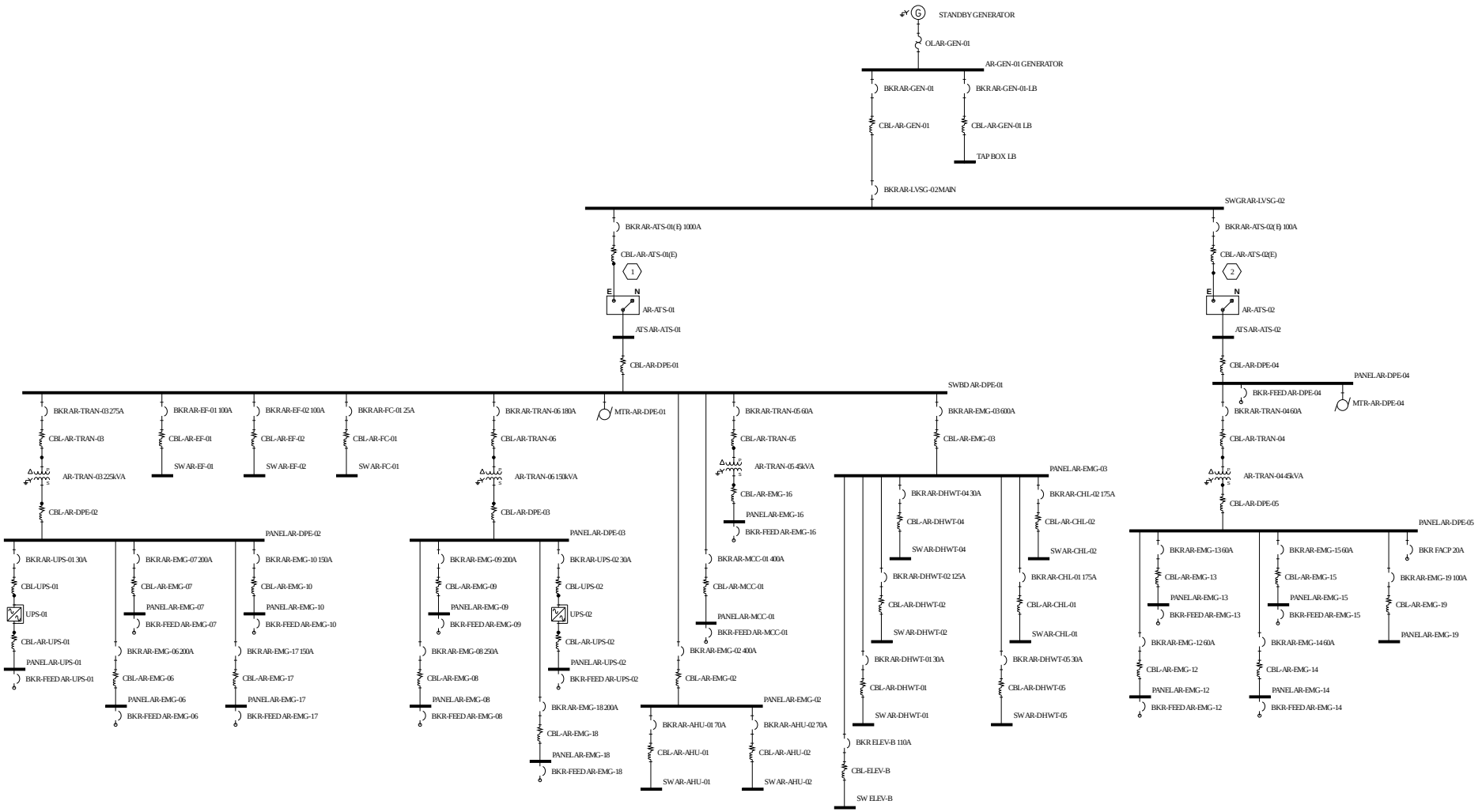
Worst Case:
(*S0) - ULTIMATE - ERMS ACTIVATED
(*S1) - MAX OLD_SUB - ERMS ACTIVATED
(*S2) - MAX LONG_POND, M-OFF - ERMS ACTIVATED
(*S3) - MIN LONG_POND, M-OFF - ERMS ACTIVATED
(*S4) - MIN LONG_POND, TIE-A - ERMS ACTIVATED
(*S5) - MIN LONG_POND, TIE-B - ERMS ACTIVATED

Incident Energy <= 12cal/cm2
12 cal/cm^2 < Incident Energy < 40cal/cm^2
Incident Energy > 40cal/cm^2

2.4 System Single Line Diagram (SKM Study Model)



Schneider Electric	Project Title: MUN Animal Resource Centre	
	Project #: Q2C-39857007	Date: February 24, 2019
	Drawing Title: SLD001	Author: Kyriakos Gogas



Schneider Electric	Project Title: MUN Animal Resource Centre	
	Project #: Q2C-39857007	Date: February 24, 2019
	Drawing Title: SLD002	Author: Kyriakos Gogas

5.7 Worst Case Arc Flash Hazard Table with Proposed Settings

5.7.1 Normal Operation – ERMS De-activate

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Table 5.7 - ARC-FLASH HAZARD TABLE FOR PROPOSED SETTINGS

Date: October 27, 2018

Bus Name	Protective Device Name	kV	Bus Bolted Fault (kA)	Prot. Dev. Bolted Fault (kA)	Arcing Fault (kA)	Trip / Delay Time (sec)	Breaker Opening Time (sec)	Ground	Equip. Type	Gap (mm)	Arc Flash Boundary (in)	Working Distance (in)	Incident Energy (cal/cm2)	Analysis Notes / Worst Case Scenario
AR-GEN-01 GENERATOR	OL AR-GEN-01	0.6	9.00	7.13	2.93	2		Yes	PNL	25	98.97	18.00	19.59	(*N9) (*N16) (*S3)
AR-HVSG-01	REL UA-1 FEED	12.47	15.05	14.94	14.40	0.3322	0.07	Yes	SWG	152	241.19	36.00	7.61	(*S0)
ATS AR-ATS-01	BKR AR-ATS-01(E) 1000A	0.6	8.93	7.36	2.92	2		Yes	PNL	25	98.61	18.00	19.48	(*N9) (*N16) (*S3)
ATS AR-ATS-02	BKR AR-ATS-02(N) 100A	0.6	18.46	18.17	13.61	0.06		Yes	PNL	25	30.54	18.00	2.85	(*S0)
PANEL AR-AP-03	BKR AR-TRAN-02 180A	0.208	8.43	8.43	3.28	2		Yes	PNL	25	99.11	18.00	19.64	(*N3) (*N9) (*S0)
PANEL AR-DP-01	BKR AR-DP-01 400A	0.6	20.52	19.90	14.78	0.32		Yes	PNL	25	85.39	18.00	15.38	(*S0)
PANEL AR-DPE-02	BKR AR-TRAN-03 275A	0.208	9.43	9.43	3.02	2		Yes	PNL	25	96.37	18.00	18.75	(*N9) (*N16) (*S3)
PANEL AR-DPE-03	BKR AR-TRAN-06 180A	0.208	8.16	8.16	3.20	2		Yes	PNL	25	97.63	18.00	19.16	(*N3) (*N9) (*S0)
PANEL AR-DPE-04	BKR AR-ATS-02(N) 100A	0.6	14.90	14.64	11.15	0.06		Yes	PNL	25	26.83	18.00	2.30	(*S0)
PANEL AR-DPE-05	BKR AR-TRAN-04 60A	0.208	3.14	3.14	1.93	0.32		Yes	PNL	25	18.04	18.00	1.20	(*N15) (*S0)
PANEL AR-EMG-02	BKR AR-EMG-02 400A	0.6	18.28	18.28	13.70	0.05		Yes	PNL	25	27.06	18.00	2.33	(*S0)
PANEL AR-EMG-03	BKR AR-EMG-03 600A	0.6	17.48	17.48	13.15	0.05		Yes	PNL	25	26.33	18.00	2.23	(*S0)
PANEL AR-EMG-06	BKR AR-EMG-06 200A	0.208	5.85	5.85	2.54	2		Yes	PNL	25	83.97	18.00	14.96	(*N3) (*N9) (*S0)
PANEL AR-EMG-07	BKR AR-EMG-07 200A	0.208	6.72	6.72	2.80	0.0313		Yes	PNL	25	7.14	18.00	0.26	(*N3) (*S3)
PANEL AR-EMG-08	BKR AR-EMG-08 250A	0.208	5.82	5.82	2.97	0.0161		Yes	PNL	25	4.96	18.00	0.14	(*S0)
PANEL AR-EMG-09	BKR AR-EMG-09 200A	0.208	5.40	5.40	2.40	2		Yes	PNL	25	80.94	18.00	14.09	(*N3) (*N9) (*S0)
PANEL AR-EMG-10	BKR AR-EMG-10 150A	0.208	4.26	4.26	2.39	2		Yes	PNL	25	80.81	18.00	14.05	(*N9) (*S0)
PANEL AR-EMG-12	BKR AR-EMG-12 60A	0.208	1.36	1.36	0.91	0.2		Yes	PNL	25	10.54	18.00	0.50	(*N3) (*N15) (*S0)
PANEL AR-EMG-13	BKR AR-EMG-13 60A	0.208	1.62	1.62	1.03	0.2		Yes	PNL	25	11.45	18.00	0.57	(*N3) (*N15) (*S0)
PANEL AR-EMG-14	BKR AR-EMG-14 60A	0.208	0.83	0.83	0.76	0.2		Yes	PNL	25	9.36	18.00	0.41	(*N15) (*S0)
PANEL AR-EMG-15	BKR AR-EMG-15 60A	0.208	1.29	1.29	1.03	0.2		Yes	PNL	25	11.45	18.00	0.57	(*N15) (*S0)
PANEL AR-EMG-16	BKR AR-TRAN-05 60A	0.48	1.16	1.16	0.79	1.337		Yes	PNL	25	30.87	18.00	2.90	(*N3) (*N16) (*S3)
PANEL AR-EMG-17	BKR AR-EMG-17 150A	0.208	4.67	4.67	2.55	2		Yes	PNL	25	84.31	18.00	15.06	(*N9) (*S0)
PANEL AR-EMG-18	BKR AR-EMG-18 200A	0.208	5.46	5.46	2.42	2		Yes	PNL	25	81.36	18.00	14.21	(*N3) (*N9) (*S0)
PANEL AR-EMG-19	BKR AR-EMG-19 100A	0.208	2.46	2.46	1.62	0.2		Yes	PNL	25	15.44	18.00	0.93	(*N15) (*S0)
PANEL AR-MCC-01	BKR AR-MCC-01 400A	0.6	18.33	18.33	13.73	0.05		Yes	PNL	25	27.10	18.00	2.34	(*S0)
PANEL AR-PP-01	BKR AR-PP-01 200A	0.6	12.73	12.73	9.82	0.0161		Yes	PNL	25	10.89	18.00	0.52	(*S0)
PANEL AR-PP-02	BKR AR-PP-02 150A	0.6	11.75	11.75	9.12	0.0161		Yes	PNL	25	10.37	18.00	0.48	(*S0)
PANEL AR-PP-04	BKR AR-PP-04 60A	0.208	1.88	1.88	1.14	1.199		Yes	PNL	25	36.56	18.00	3.82	(*N3) (*S2)
PANEL AR-PP-05	BKR AR-PP-05 60A	0.208	1.58	1.58	1.01	1.733		Yes	PNL	25	42.14	18.00	4.83	(*N3) (*S2)
PANEL AR-PP-06	BKR AR-AR-PP-06 200A	0.208	4.25	4.25	2.38	2		Yes	PNL	25	80.70	18.00	14.02	(*N9) (*S0)
PANEL AR-PP-07	BKR AR-AR-PP-07 200A	0.208	6.13	6.13	2.62	2		Yes	PNL	25	85.74	18.00	15.48	(*N3) (*N9) (*S0)
PANEL AR-PP-08	BKR AR-PP-08 60A	0.208	1.48	1.48	0.97	1.901		Yes	PNL	25	43.29	18.00	5.04	(*N3) (*S2)
PANEL AR-UPS-01	BKR AR-UPS-01 30A	0.208	0.41	0.41	0.41	2		Yes	PNL	25	10.66	18.00	0.42	(*N9) (*N11) (*S0)
PANEL AR-UPS-02	BKR AR-UPS-02 30A	0.208	0.42	0.42	0.42	2		Yes	PNL	25	10.72	18.00	0.42	(*N9) (*N11) (*S0)
SW AR-AHU-01	BKR AR-AHU-01 70A	0.6	12.87	12.87	9.92	0.05		Yes	PNL	25	21.87	18.00	1.64	(*S0)
SW AR-AHU-02	BKR AR-AHU-02 70A	0.6	11.43	11.43	8.89	0.05		Yes	PNL	25	20.35	18.00	1.46	(*S0)
SW AR-CHL-01	BKR AR-CHL-01 175A	0.6	12.69	12.69	9.79	0.0161		Yes	PNL	25	10.87	18.00	0.52	(*S0)
SW AR-CHL-02	BKR AR-CHL-02 175A	0.6	12.43	12.43	9.60	0.0161		Yes	PNL	25	10.73	18.00	0.51	(*S0)
SW AR-DHWT-01	BKR AR-DHWT-01 30A	0.6	1.77	1.77	1.60	0.0165		Yes	PNL	25	3.34	18.00	0.08	(*S0)
SW AR-DHWT-02	BKR AR-DHWT-02 125A	0.6	9.46	9.46	7.47	0.0175		Yes	PNL	25	9.57	18.00	0.42	(*S0)
SW AR-DHWT-04	BKR AR-DHWT-04 30A	0.6	1.70	1.70	1.53	0.0165		Yes	PNL	25	3.25	18.00	0.07	(*S0)
SW AR-DHWT-05	BKR AR-DHWT-05 30A	0.6	1.65	1.65	1.49	0.0165		Yes	PNL	25	3.20	18.00	0.07	(*S0)
SW AR-EF-01	BKR AR-EF-01 100A	0.6	3.88	3.88	3.28	0.0175		Yes	PNL	25	5.57	18.00	0.17	(*S0)

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Table 5.7 - ARC-FLASH HAZARD TABLE FOR PROPOSED SETTINGS

Date: October 27, 2018

Bus Name	Protective Device Name	kV	Bus Bolted Fault (kA)	Prot. Dev. Bolted Fault (kA)	Arcing Fault (kA)	Trip / Delay Time (sec)	Breaker Opening Time (sec)	Ground	Equip. Type	Gap (mm)	Arc Flash Boundary (in)	Working Distance (in)	Incident Energy (cal/cm2)	Analysis Notes / Worst Case Scenario
SW AR-EF-02	BKR AR-EF-02 100A	0.6	4.47	4.47	3.75	0.0175		Yes	PNL	25	6.07	18.00	0.20	(*S0)
SW AR-FC-01	BKR AR-FC-01 25A	0.6	2.13	2.13	1.89	0.0162		Yes	PNL	25	3.69	18.00	0.09	(*S0)
SW AR-FC-02	BKR AR-FC-02 25A	0.6	2.99	2.99	2.58	0.0162		Yes	PNL	25	4.54	18.00	0.12	(*S0)
SW ELEV-A	BKR AR-PP-01 200A	0.6	4.40	4.40	3.69	0.0161		Yes	PNL	25	5.71	18.00	0.18	(*N5) (*S0)
SW ELEV-B	BKR ELEV-B 110A	0.6	3.96	3.96	3.35	0.0175		Yes	PNL	25	5.64	18.00	0.18	(*S0)
SWBD AR-DPE-01	BKR AR-ATS-01(E) 1000A	0.6	8.89	7.32	2.91	2		Yes	PNL	25	98.44	18.00	19.42	(*N9) (*N16) (*S3)
SWGR AR-LVSG-01	BKR AR-LVSG-01 MAIN	0.6	21.84	19.34	13.50	0.5		Yes	SWG	32	134.13	24.00	15.07	(*S0)
SWGR AR-LVSG-01 - Main Breaker	REL AR-TRAN-01	0.6	21.84	19.34	13.50	1.221	0.07	Yes	SWG	32	252.77	24.00	38.33	(*S0)
SWGR AR-LVSG-02	BKR AR-GEN-01	0.6	8.95	7.08	2.87	2		Yes	SWG	32	115.61	24.00	12.11	(*N9) (*N16) (*S3)
TAP BOX LB	BKR AR-GEN-01-LB	0.6	6.80	6.80	2.44	2		Yes	PNL	25	86.43	18.00	15.69	(*N3) (*N9) (*N16) (*S0)

Notes:

(*N11) - Out of IEEE 1584 Range, Lee Equation Used. Applicable for Open Air only. Existing Equipment type is not Open Air!
(*N2) < 99% Cleared Fault Threshold
(*N3) - Arcing Current Low Tolerances Used
(*N5) - Miscoordinated, Upstream Device Tripped
(*N9) - Max Arcing Duration Reached
(*N15) - Equivalent IE for Level 0 or less is reported if fed by one transformer sized < 125kVA
(*N16) - Trip Time Recalculated
IEEE 1584 - Preferred Method (NFPA 70E 2015 Annex D.4) Bus + Line Side - 99% Cleared Fault Threshold, mis-coordination checked

Worst Case:

(*S0) - Max Utility
(*S1) - Mid Utility
(*S2) - Min Utility
(*S3) - Generator

Incident Energy < 12 cal/cm^2
12 cal/cm^2 <= Incident Energy < 40 cal/cm^2
Incident Energy >= 40cal/cm^2

5.7.2 Maintenance Operation – ERMS Activated

Schneider Electric

Table 5.7 - ARC-FLASH HAZARD TABLE FOR PROPOSED SETTINGS

ERMS ACTIVATED

Date: December 13, 2018

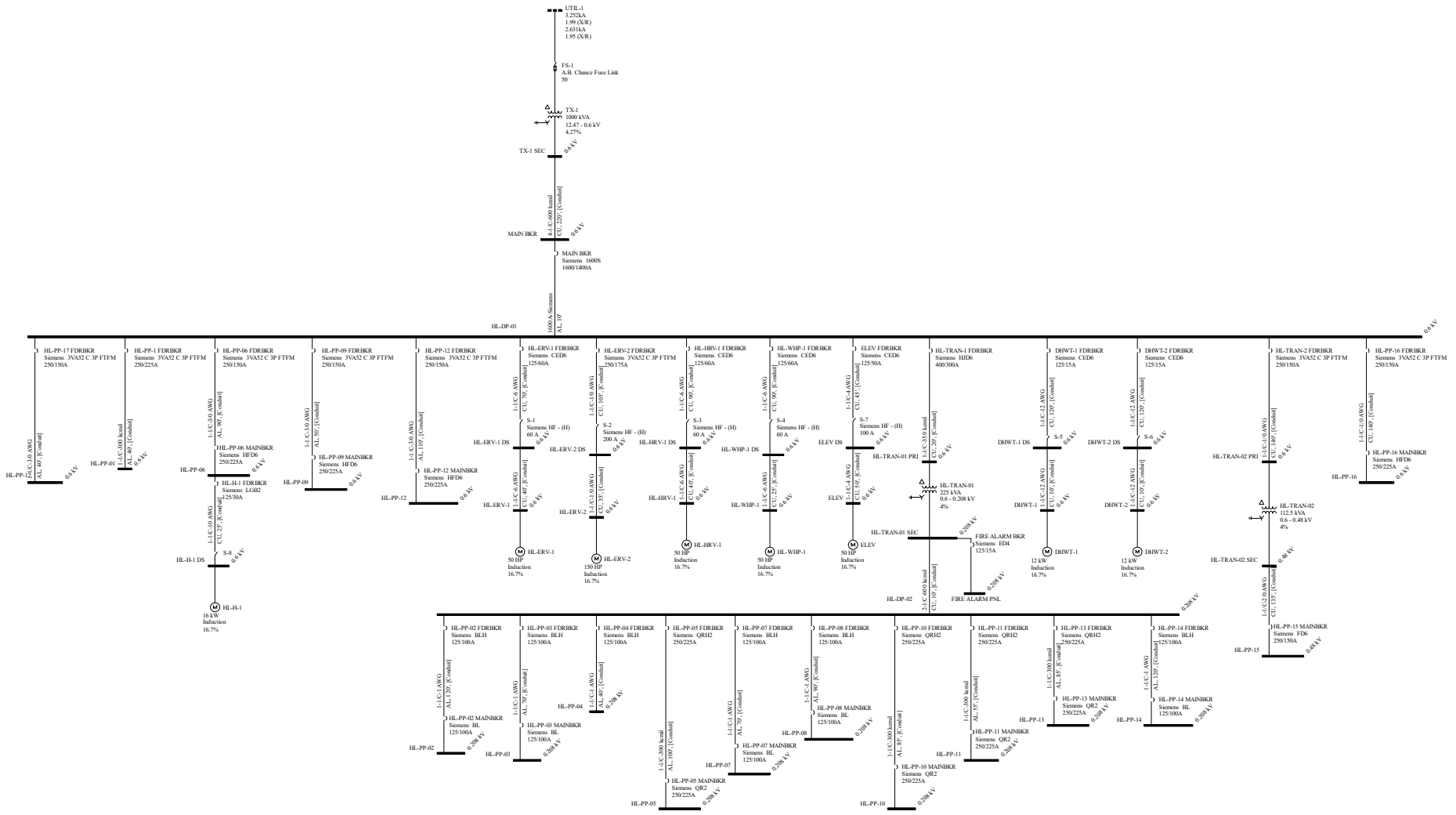
Bus Name	Protective Device Name	kV	Bus Bolted Fault (kA)	Prot. Dev. Bolted Fault (kA)	Arcing Fault (kA)	Trip / Delay Time (sec)	Breaker Opening Time (sec)	Ground	Equip. Type	Gap (mm)	Arc Flash Boundary (in)	Working Distance (in)	Incident Energy (cal/cm2)	Analysis Notes / Worst Case Scenario
ATS AR-ATS-01	BKR AR-ATS-01(N) 1200A	0.6	21.54	19.97	14.78	0.06		Yes	PNL	25	33.98	18.00	3.39	(*S4)
ATS AR-ATS-02	BKR AR-ATS-02(N) 100A	0.6	18.46	18.17	13.61	0.06		Yes	PNL	25	30.54	18.00	2.85	(*S4)
PANEL AR-DP-01	BKR AR-DP-01 400A	0.6	20.52	19.90	14.78	0.06		Yes	PNL	25	32.67	18.00	3.18	(*S4)
PANEL AR-DPE-04	BKR AR-ATS-02(N) 100A	0.6	14.90	14.64	11.15	0.06		Yes	PNL	25	26.83	18.00	2.30	(*S4)
SWBD AR-DPE-01	BKR AR-ATS-01(N) 1200A	0.6	21.23	19.66	14.56	0.06		Yes	PNL	25	33.69	18.00	3.34	(*S4)
SWGR AR-LVSG-01 Feeders (Load Side	BKR AR-LVSG-01 MAIN	0.6	21.84	19.34	13.50	0.06		Yes	SWG	32	35.06	24.00	2.09	(*S4)
SWGR AR-LVSG-01 Main (Line Side)	REL AR-TRAN-01	0.6	21.84	19.34	13.50	0.0167	0.07	Yes	SWG	32	42.57	24.00	2.78	(*S4)
SWGR AR-LVSG-02 Feeders (Load Side	BKR AR-LVSG-02 MAIN	0.6	8.95	7.08	5.40	0.06		Yes	SWG	32	19.75	24.00	0.90	(*S7)

Notes:

Worst Case:

(*S4) - Max Utility ERMS
(*S5) - Mid Utility ERMS
(*S6) - Min Utility ERMS
(*S7) - Generator ERMS

Incident Energy < 12 cal/cm^2
12 cal/cm^2 <= Incident Energy < 40 cal/cm^2
Incident Energy >= 40cal/cm^2



SIEMENS
Canada Ltd.
Holyrood Marine Base

NO.	REVISION NOTE	BY	DATE
0	First Issue	CB	21/01/21
1	Fire Alarm BKR and PNL added	CB	22/04/21
2			
3			
4			

SCALE		DATE
DRAWN BY:	Calvin Bursey, CET	20/01/21
CHECKED BY:	Zlatko Bogevski, P.Eng.	
APPROVED BY:		
APPROVED BY:		
APPROVED BY:		

TITLE	PLANT
Marine Institute	JOB NO. AEAJFCN
1 Northside Road	
Holyrood, NL	REVISION NO.
One Line Diagram	DWG NO. AEAJFCN-001

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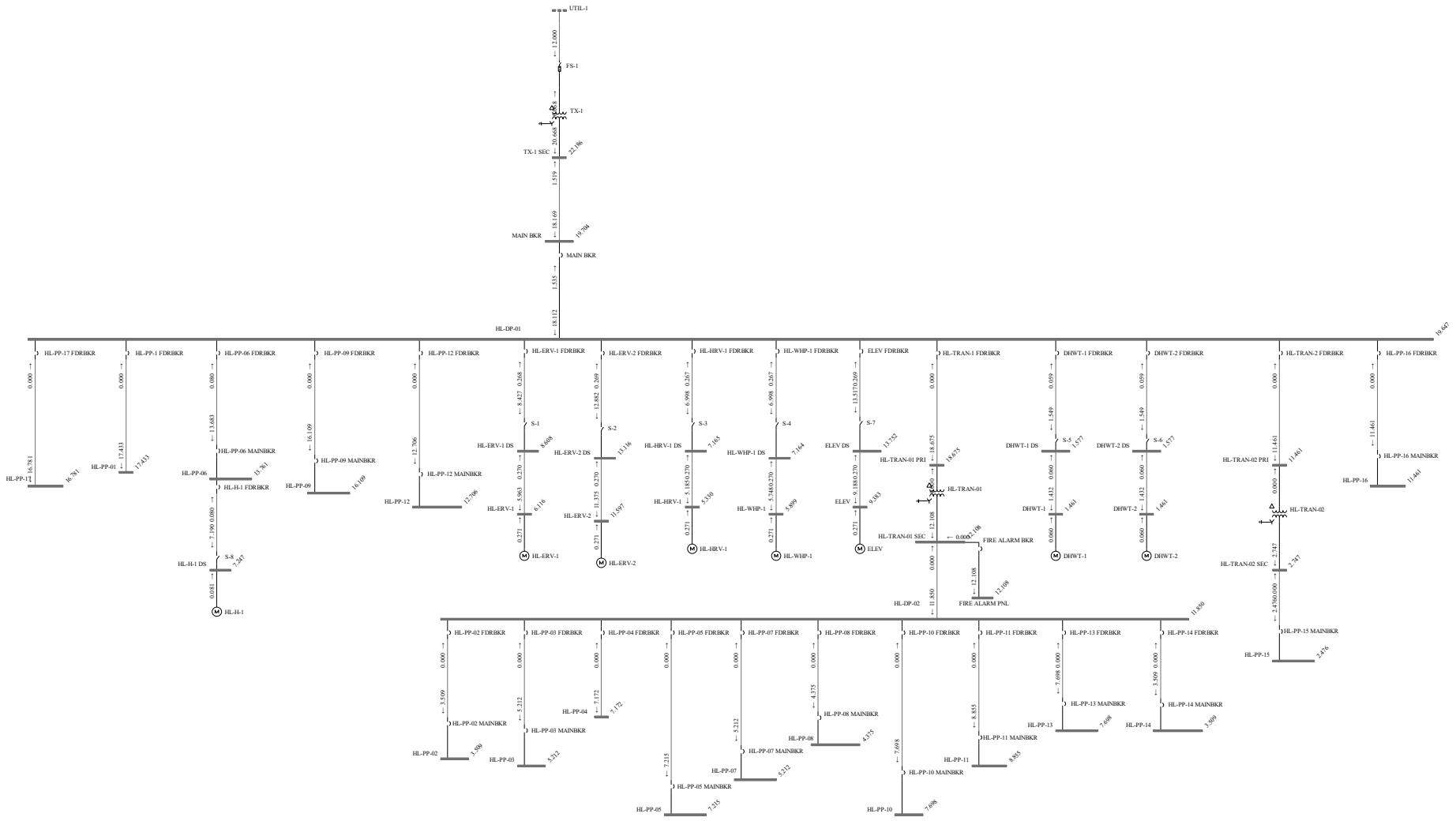


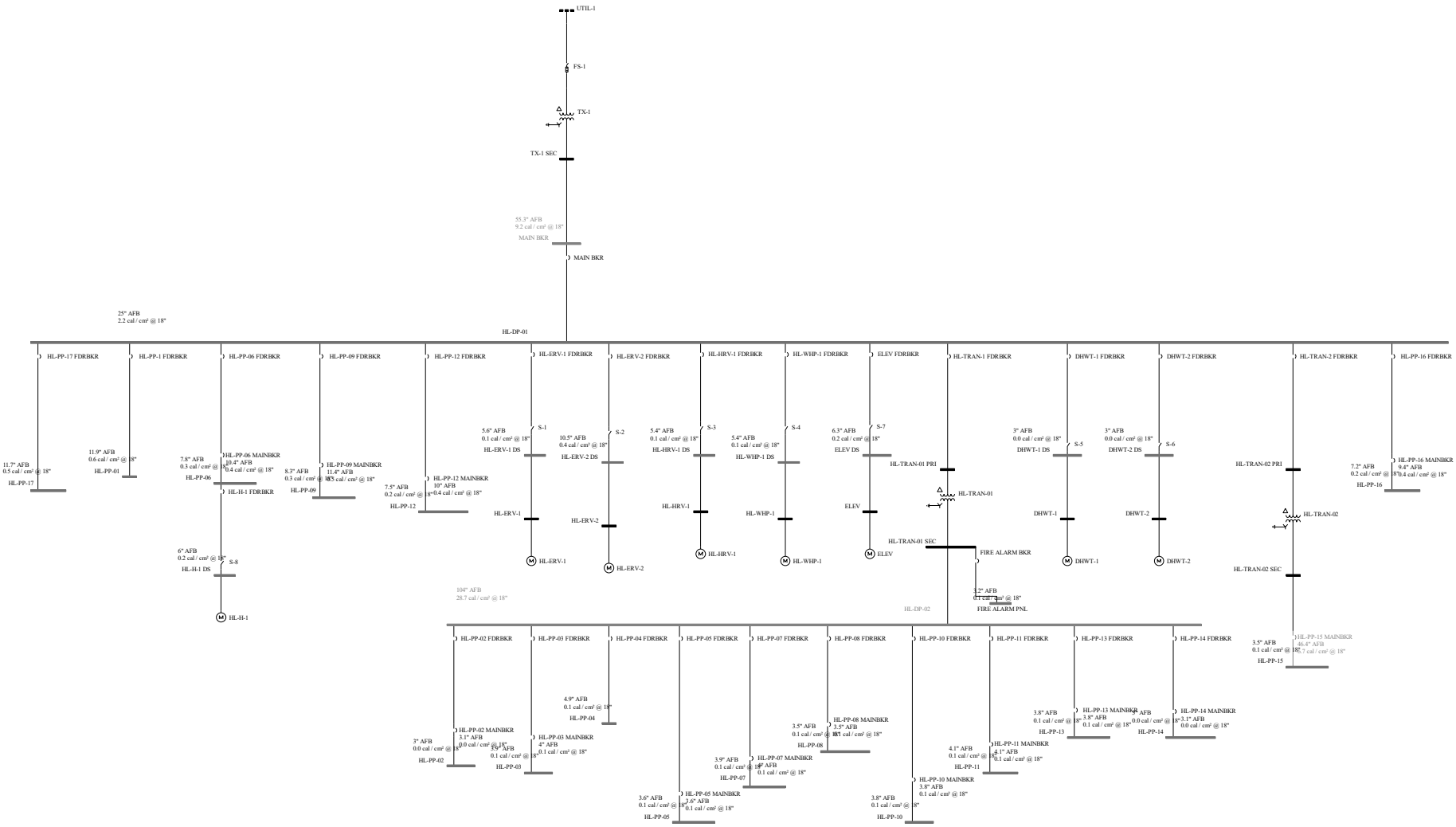
SIEMENS
Canada Ltd.
Holyrood Marine Base

NO.	REVISION NOTE	BY	DATE
0	First Issue	CB	21/01/21
1	Fire Alarm BKR and PNL added	CB	22/04/21
2			
3			
4			

SCALE		DATE
DRAWN BY:	Calvin Bursey, CET	20/01/21
CHECKED BY:	Zlatko Bogevski, P.Eng.	
APPROVED BY:		
APPROVED BY:		
APPROVED BY:		

TITLE	PLANT
Marine Institute	JOB NO. AEAJFCN
1 Northside Road	
Holyrood, NL	REVISION NO.
Max Fault level	DWG NO. AEAJFCN-002
SC Analysis Diagram	

Printed by EasyPower



SIEMENS
Canada Ltd.
Holyrood Marine Base

NO.	REVISION NOTE	BY	DATE
0	First Issue	CB	21/01/21
1	Fire Alarm BKR and PNL added	CB	22/04/21
2			
3			
4			

SCALE		DATE
DRAWN BY:	Calvin Bursey, CET	20/01/21
CHECKED BY:	Zlatko Bogevski, P.Eng.	
APPROVED BY:		
APPROVED BY:		
APPROVED BY:		

TITLE	PLANT
Marine Institute	JOB NO. AEAJFCN
1 Northside Road	
Holyrood, NL	REVISION NO.
Utility Fault Level	
AF Analysis Diagram	DWG NO. AEAJFCN-003

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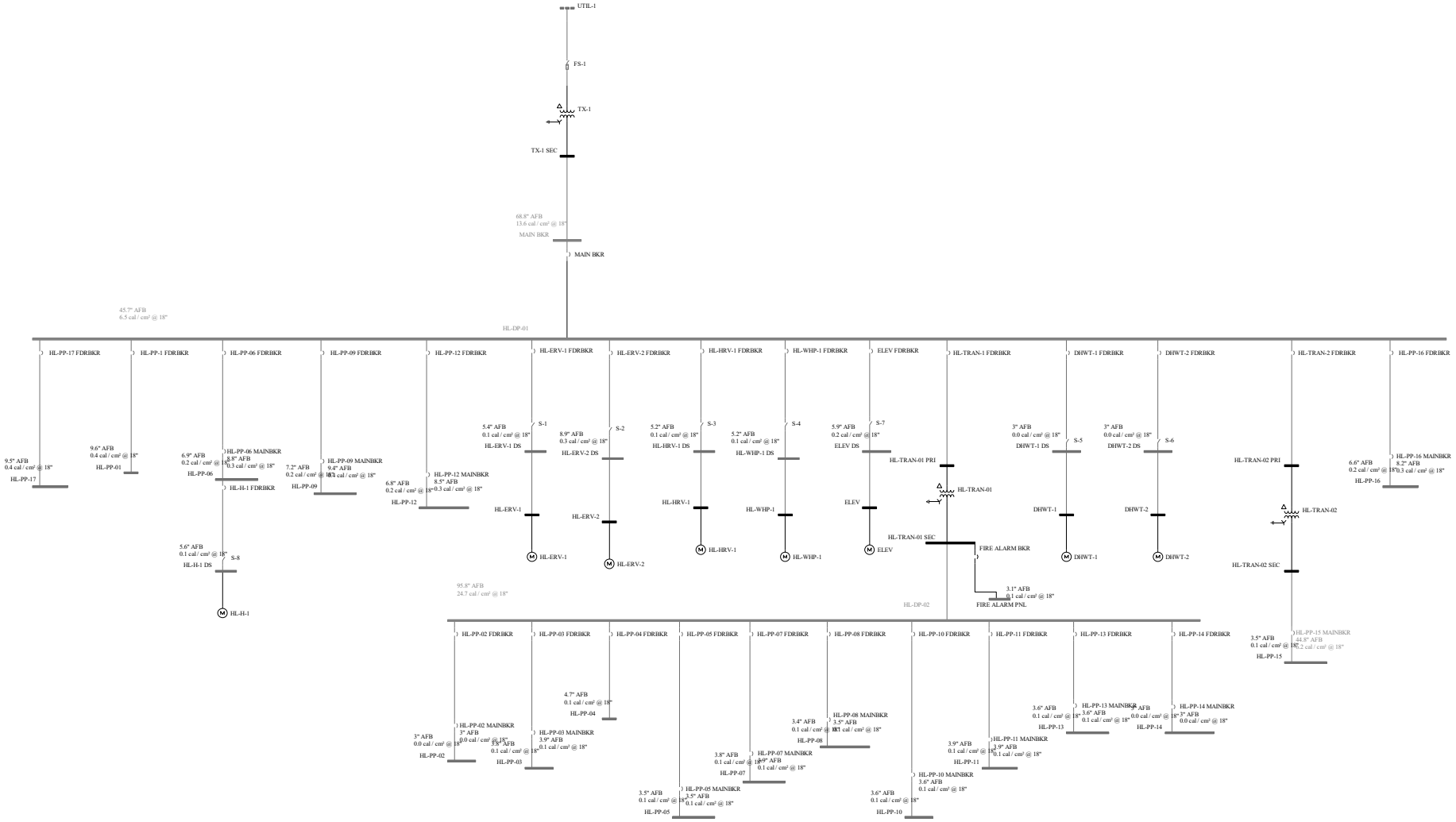

SIEMENS
Canada Ltd.
Holyrood Marine Base

NO.	REVISION NOTE	BY	DATE
0	First Issue	CB	21/01/21
1	Fire Alarm BKR and PNL added	CB	22/04/21
2			
3			
4			

SCALE		DATE
DRAWN BY:	Calvin Bursey, CET	20/01/21
CHECKED BY:	Zlatko Bogevski, P.Eng.	
APPROVED BY:		
APPROVED BY:		
APPROVED BY:		

TITLE	PLANT
Marine Institute	JOB NO. AEAJFCN
1 Northside Road	
Holyrood, NL	REVISION NO.
Min Fault Level	DWG NO. AEAJFCN-004
AF Analysis Diagram	

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Siemens (Serial #C2-19736-4M)

Arc Fault Bus Name	Worst Case Scenario	Arc Fault Bus kV	Upstream Trip Device Name	Upstream Trip Device Function	Equip Type	Electrode Configuration	Electrode Gap (mm)	Bus Bolted Fault (kA)	Bus Arc Fault (kA)	Trip Time (sec)	Opening Time (sec)	Arc Time (sec)	Est Arc Flash Boundary (inches)	Working Distance (inches)	Incident Energy (cal/cm2)	Comments
DHWT-1 DS	Scenario-Max	0.6	DHWT-1 FDRBKR		Int Switch	VCBB	32	1.577	1.302	0.016	0	0.016	3	18	0	
DHWT-2 DS	Scenario-Max	0.6	DHWT-2 FDRBKR		Int Switch	VCBB	32	1.577	1.302	0.016	0	0.016	3	18	0	
ELEV DS	Scenario-Max	0.6	ELEV FDRBKR		Int Switch	VCBB	32	13.752	11.789	0.005	0	0.005	6.5	18	0.2	
FIRE ALARM PNL	Scenario-Max	0.208	FIRE ALARM BKR		Other	VCBB	32	2.417	1.092	0.022	0	0.022	3.2	18	0.1	
HL-DP-01	Scenario-Min	0.6	MAIN BKR		Switchboard	VCBB	32	10.070	7.621	0.28	0	0.28	45.7	18	6.5	
HL-DP-02	Base Case	0.208	[Manual Time]		Panelboard	VCBB	25	11.166	5.677	0	0	2	104	18	28.7	
HL-ERV-1 DS	Scenario-Max	0.6	HL-ERV-1 FDRBKR		Int Switch	VCBB	32	8.608	7.271	0.007	0	0.007	5.7	18	0.2	
HL-ERV-2 DS	Scenario-Max	0.6	HL-ERV-2 FDRBKR		Int Switch	VCBB	32	13.116	11.228	0.015	0	0.015	11.2	18	0.5	
HL-H-1 DS	Scenario-Max	0.6	HL-H-1 FDRBKR		Int Switch	VCBB	32	7.247	6.089	0.01	0	0.01	6.2	18	0.2	
HL-HRV-1 DS	Scenario-Max	0.6	HL-HRV-1 FDRBKR		Int Switch	VCBB	32	7.165	6.018	0.008	0	0.008	5.4	18	0.1	
HL-PP-01	Scenario-Max	0.6	HL-PP-1 FDRBKR		Panel	VCBB	25	17.433	15.208	0.015	0	0.015	13.1	18	0.7	
HL-PP-02	Scenario-Max	0.208	HL-PP-02 FDRBKR		Panel	VCBB	25	3.502	1.645	0.018	0	0.018	3.1	18	0	
HL-PP-03	Scenario-Max	0.208	HL-PP-03 FDRBKR		Panel	VCBB	25	5.194	2.483	0.018	0	0.018	4	18	0.1	
HL-PP-04	Scenario-Max	0.208	HL-PP-04 FDRBKR		Panel	VCBB	25	7.132	3.484	0.018	0	0.018	5	18	0.1	
HL-PP-05	Scenario-Max	0.208	HL-PP-05 FDRBKR		Panel	VCBB	25	7.215	3.528	0.01	0	0.01	3.7	18	0.1	
HL-PP-06	Scenario-Max	0.6	HL-PP-06 FDRBKR		Panel	VCBB	25	13.761	11.943	0.015	0	0.015	11.3	18	0.5	
HL-PP-07	Scenario-Max	0.208	HL-PP-07 FDRBKR		Panel	VCBB	25	5.194	2.483	0.018	0	0.018	4	18	0.1	
HL-PP-08	Scenario-Max	0.208	HL-PP-08 FDRBKR		Panel	VCBB	25	4.363	2.067	0.018	0	0.018	3.6	18	0.1	
HL-PP-09	Scenario-Max	0.6	HL-PP-09 FDRBKR		Panel	VCBB	25	16.109	14.034	0.015	0	0.015	12.5	18	0.6	
HL-PP-10	Scenario-Max	0.208	HL-PP-10 FDRBKR		Panel	VCBB	25	7.698	3.785	0.01	0	0.01	3.8	18	0.1	
HL-PP-11	Scenario-Max	0.208	HL-PP-11 FDRBKR		Panel	VCBB	25	8.855	4.406	0.01	0	0.01	4.2	18	0.1	
HL-PP-12	Scenario-Max	0.6	HL-PP-12 FDRBKR		Panel	VCBB	25	12.706	11.002	0.015	0	0.015	10.7	18	0.5	
HL-PP-13	Scenario-Max	0.208	HL-PP-13 FDRBKR		Panel	VCBB	25	7.698	3.785	0.01	0	0.01	3.8	18	0.1	
HL-PP-14	Scenario-Max	0.208	HL-PP-14 FDRBKR		Panel	VCBB	25	3.502	1.645	0.018	0	0.018	3.1	18	0	

The test results are a function of specific humidity, barometric pressure, temperature, arc distance, and many other variables.
These parameters will NOT be the same in your application. These results should be applied only by experienced engineers in the application of Arc-flash hazards. EasyPower makes no warranty concerning the accuracy of these results as applied to real world scenarios.

For integrated calculations, the fault currents displayed are just before 'Arc Time'.

Arc Fault Bus Name	Worst Case Scenario	Arc Fault Bus kV	Upstream Trip Device Name	Upstream Trip Device Function	Equip Type	Electrode Configuration	Electrode Gap (mm)	Bus Bolted Fault (kA)	Bus Arc Fault (kA)	Trip Time (sec)	Opening Time (sec)	Arc Time (sec)	Est Arc Flash Boundary (inches)	Working Distance (inches)	Incident Energy (cal/cm2)	Comments
HL-PP-15	Scenario-Max	0.48	[Manual Time]		Panel	VCBB	25	2.456	1.898	0	0	2	47	18	6.8	
HL-PP-16	Scenario-Max	0.6	HL-PP-16 FDRBKR		Panel	VCBB	25	11.461	9.892	0.015	0	0.015	10	18	0.4	
HL-PP-17	Scenario-Max	0.6	HL-PP-17 FDRBKR		Panel	VCBB	25	16.781	14.631	0.015	0	0.015	12.8	18	0.6	
HL-WHP-1 DS	Scenario-Max	0.6	HL-WHP-1 FDRBKR		Int Switch	VCBB	32	7.164	6.017	0.008	0	0.008	5.4	18	0.1	
MAIN BKR	Scenario-Min	0.6	FS-1		Other	VCBB	32	10.087	7.635	0.598	0	0.598	68.8	18	13.6	

The test results are a function of specific humidity, barometric pressure, temperature, arc distance, and many other variables.
These parameters will NOT be the same in your application. These results should be applied only by experienced engineers in the application of Arc-flash hazards. EasyPower makes no warranty concerning the accuracy of these results as applied to real world scenarios.

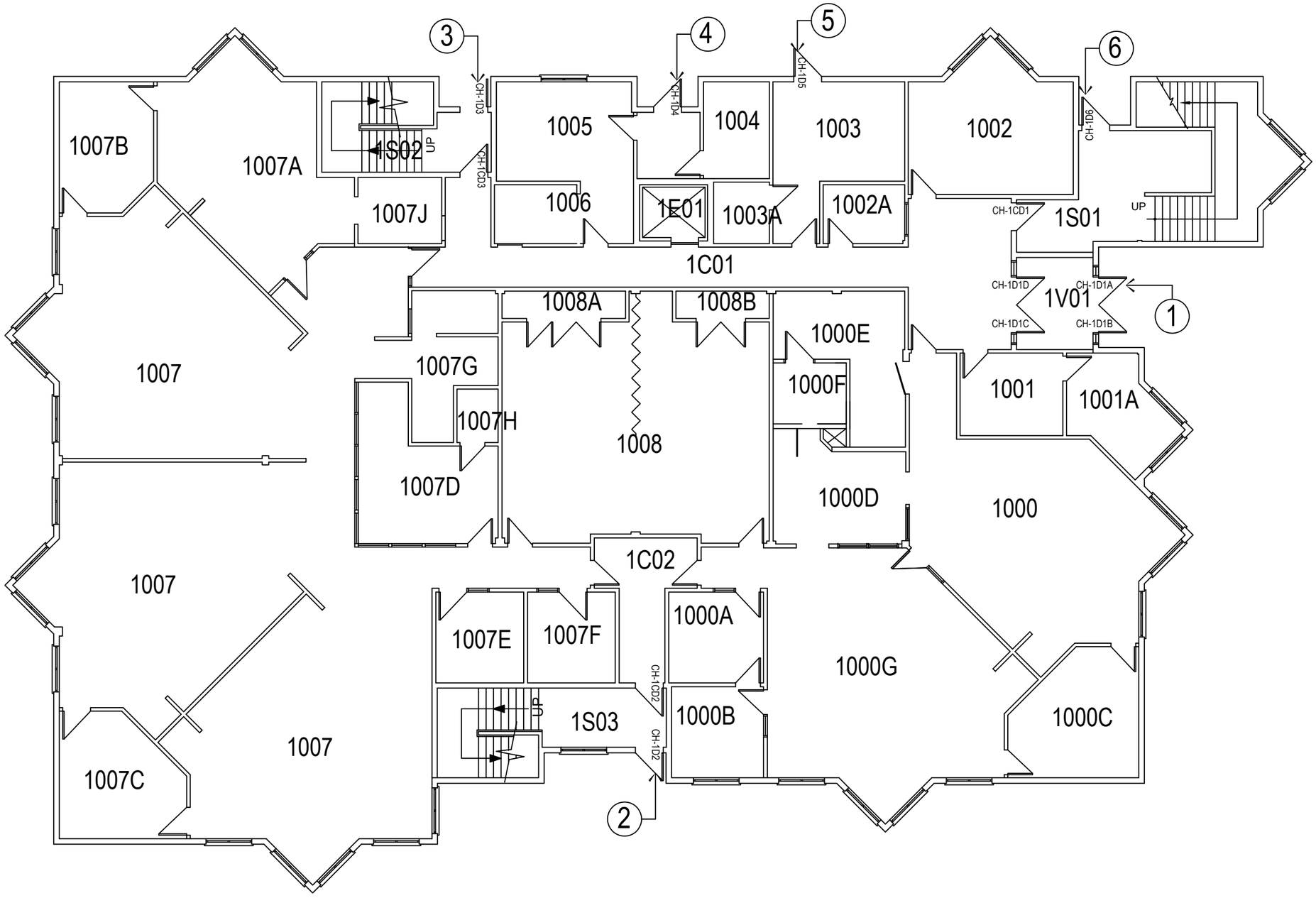
For integrated calculations, the fault currents displayed are just before 'Arc Time'.

APPENDIX M – BUILDING FLOOR PLANS

CH

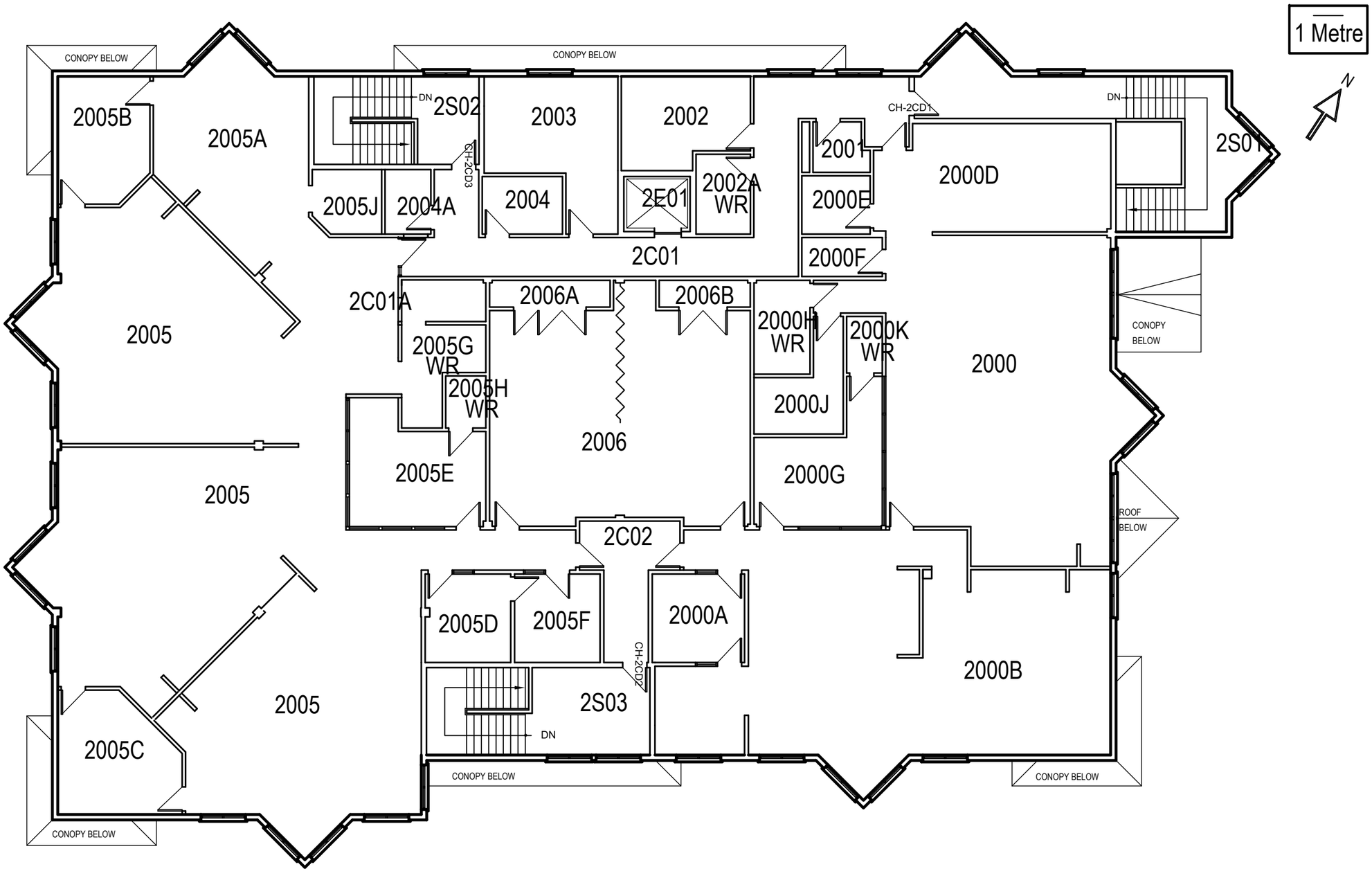
CHILDCARE CENTRE
LEVEL 1

1 Metre



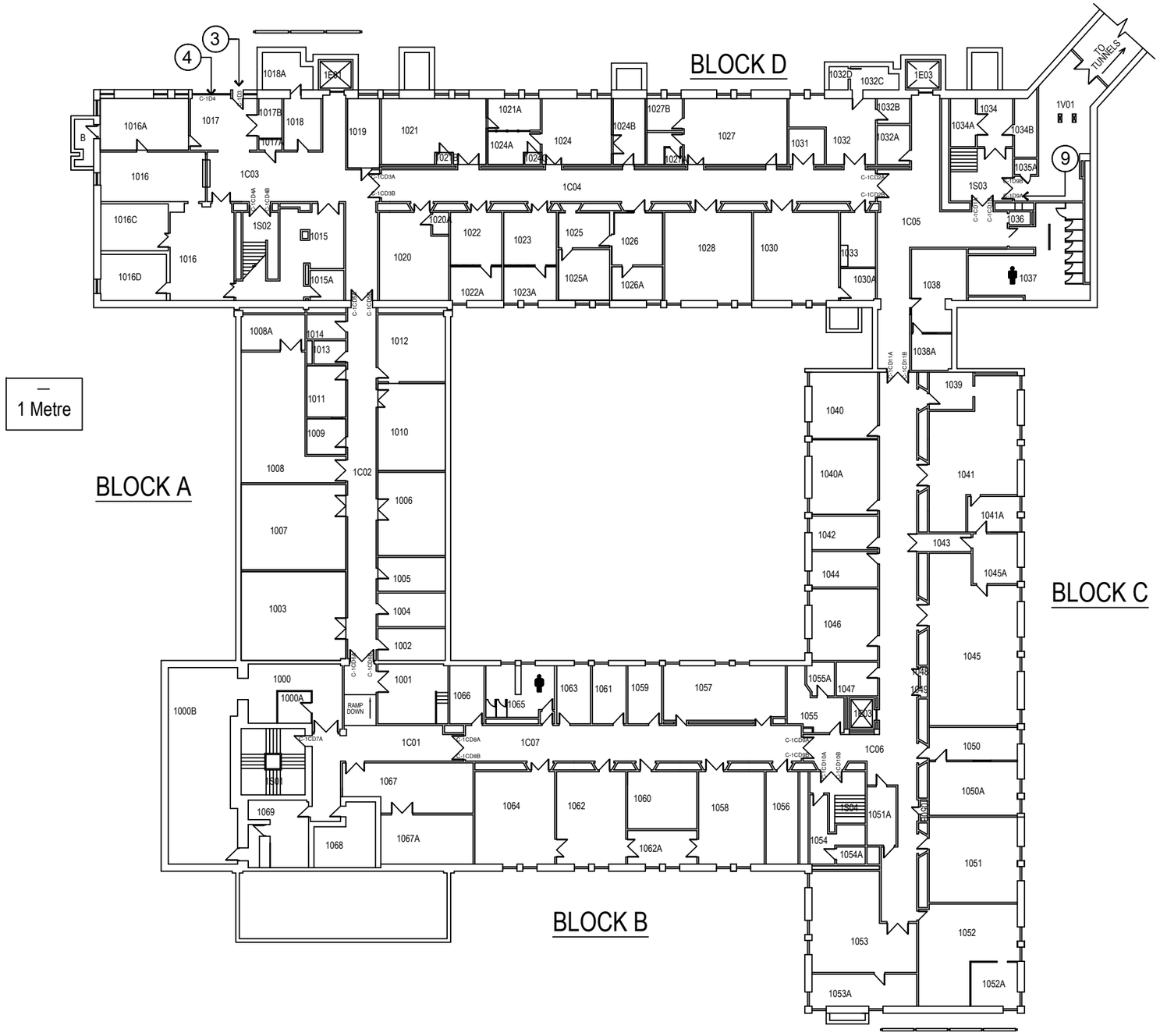
CH

CHILDCARE CENTRE
LEVEL 2



CP

CHEMESTRY-PHYSICS
LEVEL 1



CHEMICAL STORAGE BUILDING

ROOF PLAN

FIRST LEVEL PLAN

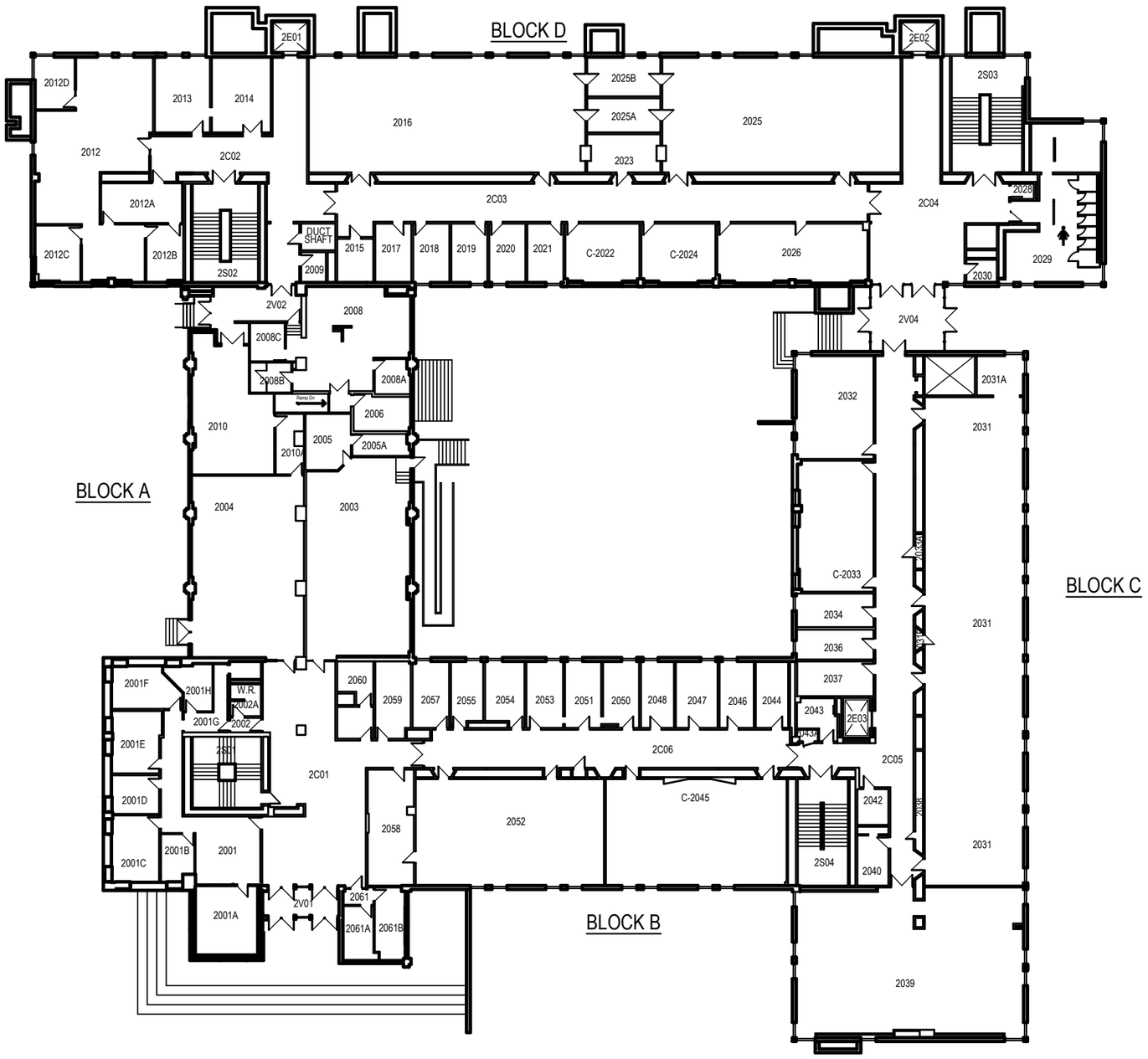
FL-1001

FL-1000

CP

CHEMESTRY-PHYSICS
LEVEL 2

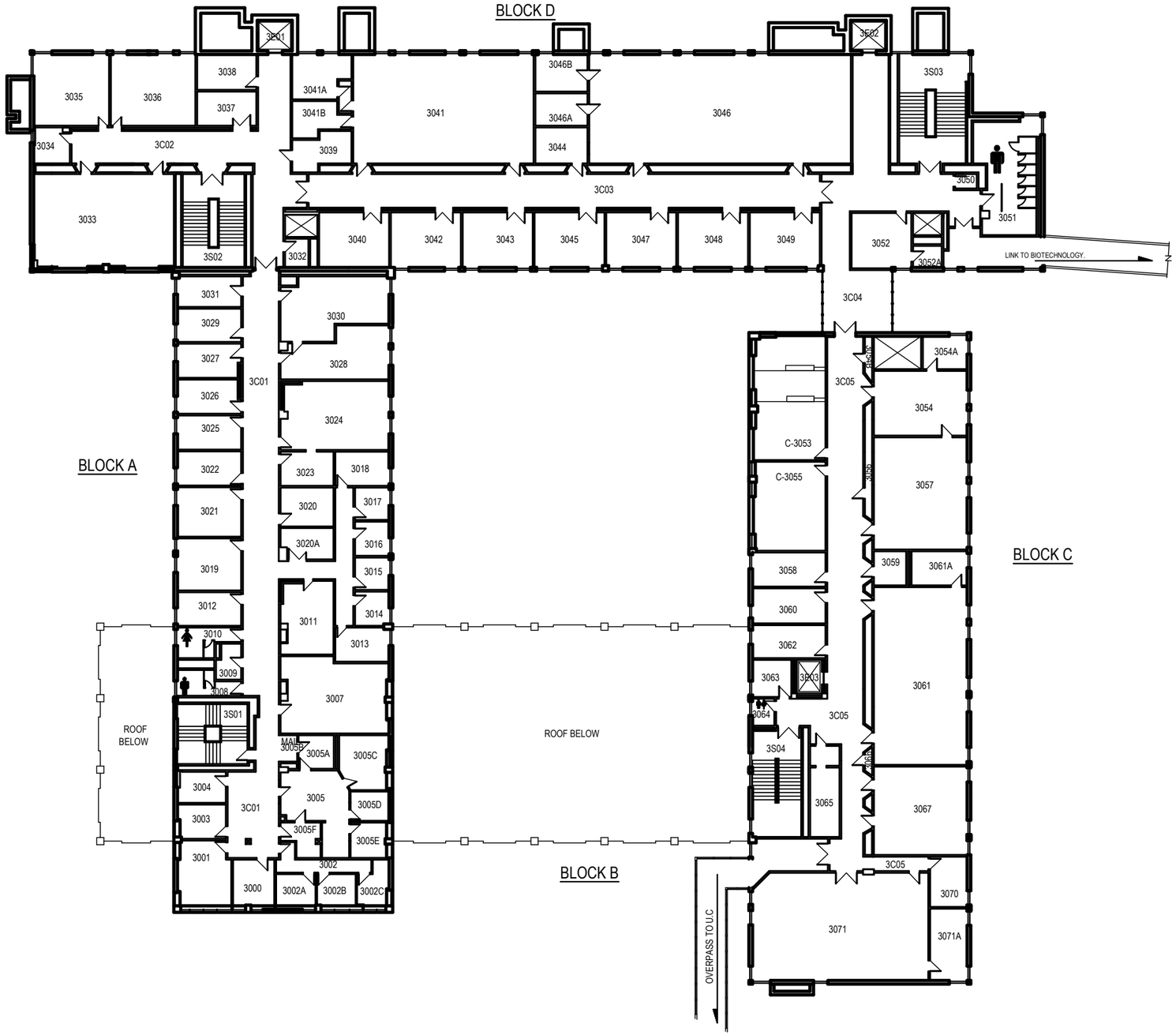
1 Metre



CP

CHEMESTRY-PHYSICS
LEVEL 3

1 Metre

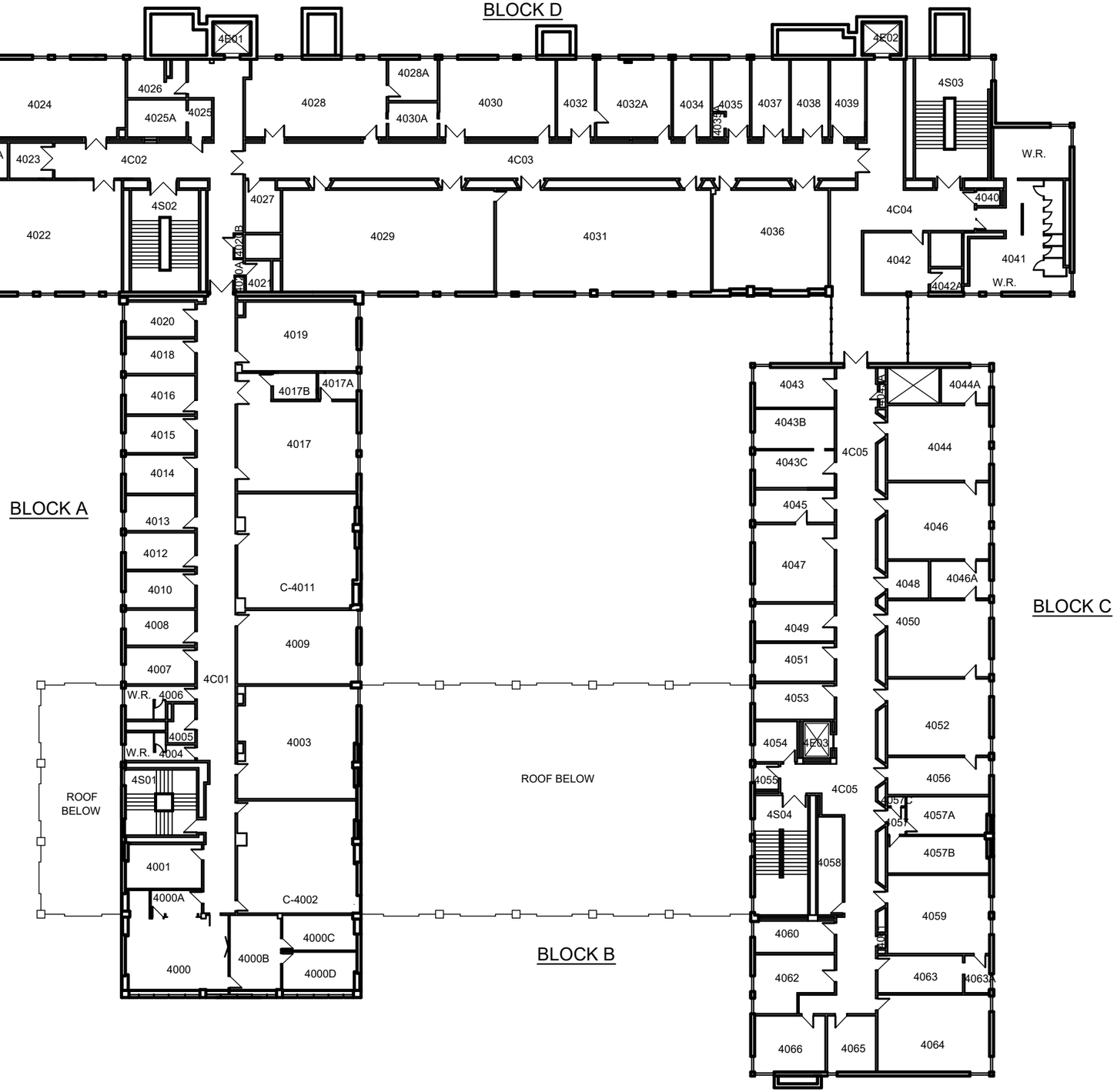


CP

CHEMISTRY / PHYSICS BUILDING

LEVEL 4

1 Metre

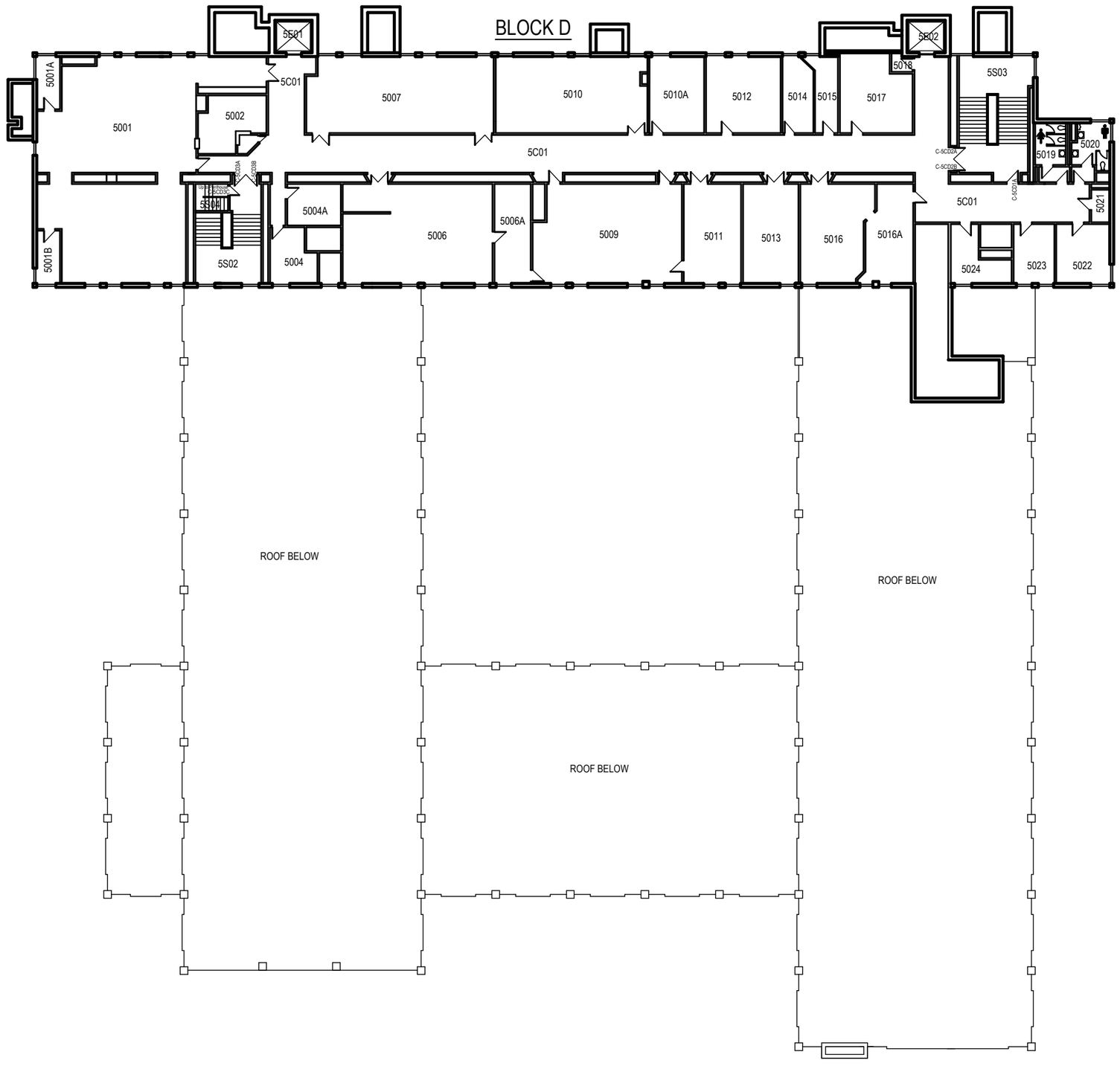


CP

CHEMISTRY / PHYSICS BUILDING

LEVEL 5

1 Metre



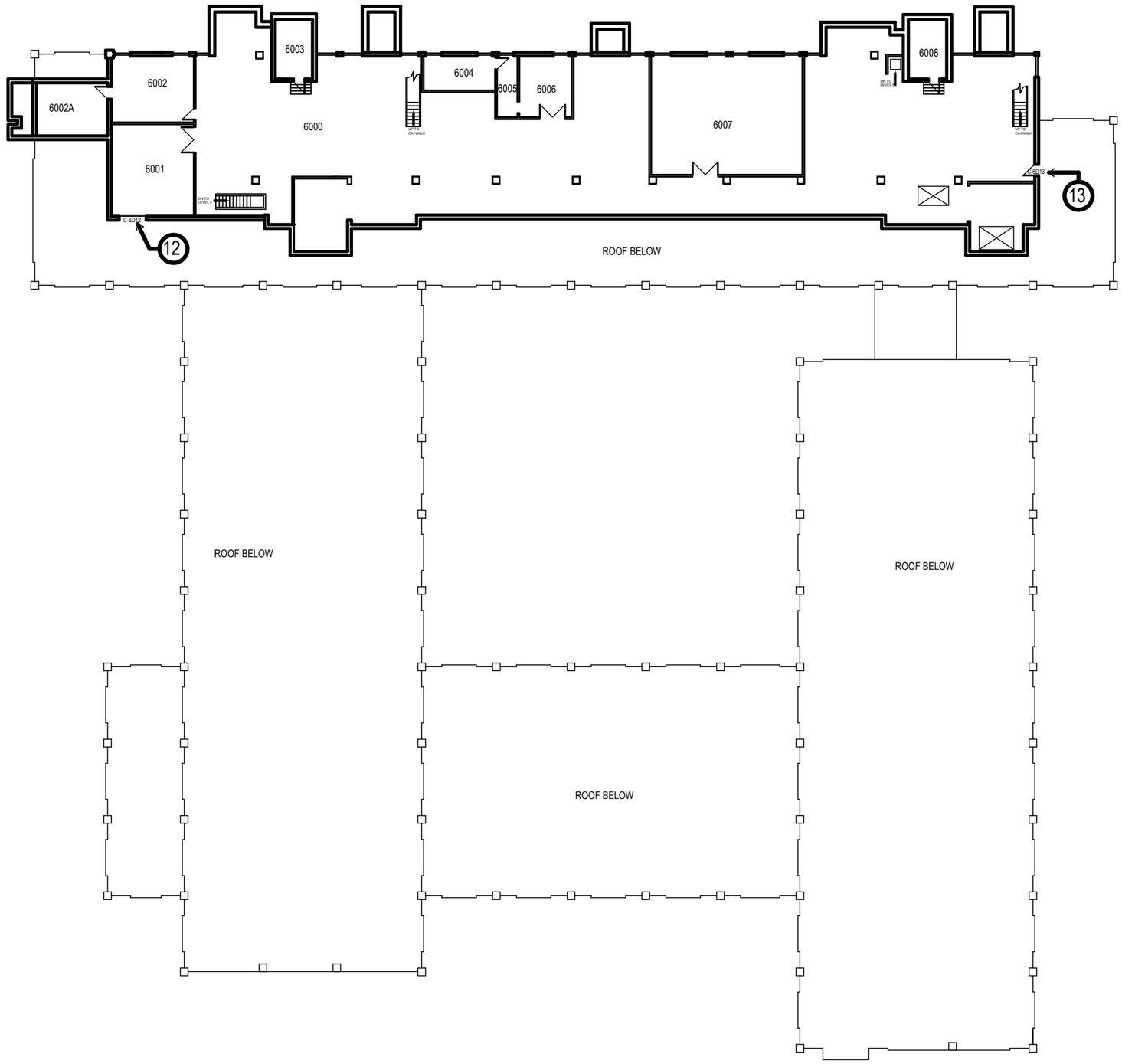
CP

CHEMISTRY / PHYSICS BUILDING

LEVEL 6

1 Metre

N

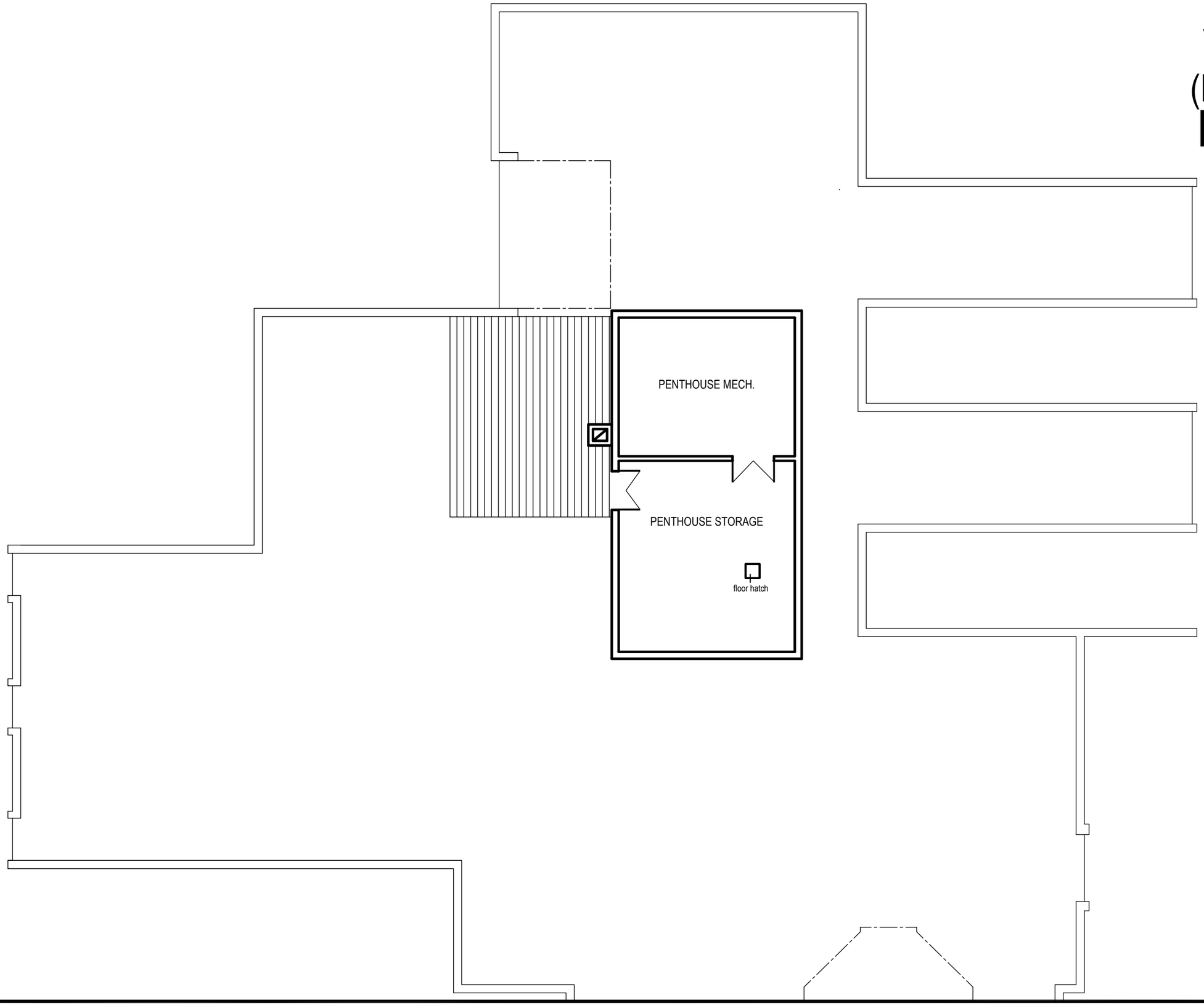


VIVARIUM
(MT SCIO ROAD)
LEVEL ONE

N

9A
9
8
10
11
1C04
7
15A
15B
15
13
1C03
6B
OUTSIDE OIL TANK
V-EXT-FTNK01
1C01
6
16
17
14
5
6A
4B
4A
4
1C01
19
18
29
1C02
3
31
33
1C01
27
27A
28
30
32
1V01
1
27B
32A

VIVARIUM
(MT SCIO ROAD)
LEVEL TWO



VIVARIUM
ROOF PLAN

N

1

FAN NO.1

PLUMBING VENTS

VENT

R.W.

ROOF DRAIN

DOWN

FAN NO.2

2

VENTS

VENT

ROOF DRAIN

PLUMBING VENTS

EXHAUST HOOD

PLUMBING VENTS

R.W.

EXHAUST HOOD

DOWN

ROOF DRAIN

PENTHOUSE ROOF

5

ROOF DRAIN

R.W.

DOWN

FAN NO.3

FAN NO.4

ROOF DRAIN

3

FAN NO.5

PLUMBING VENT

PLUMBING VENT

FAN NO.6

ROOF DRAIN

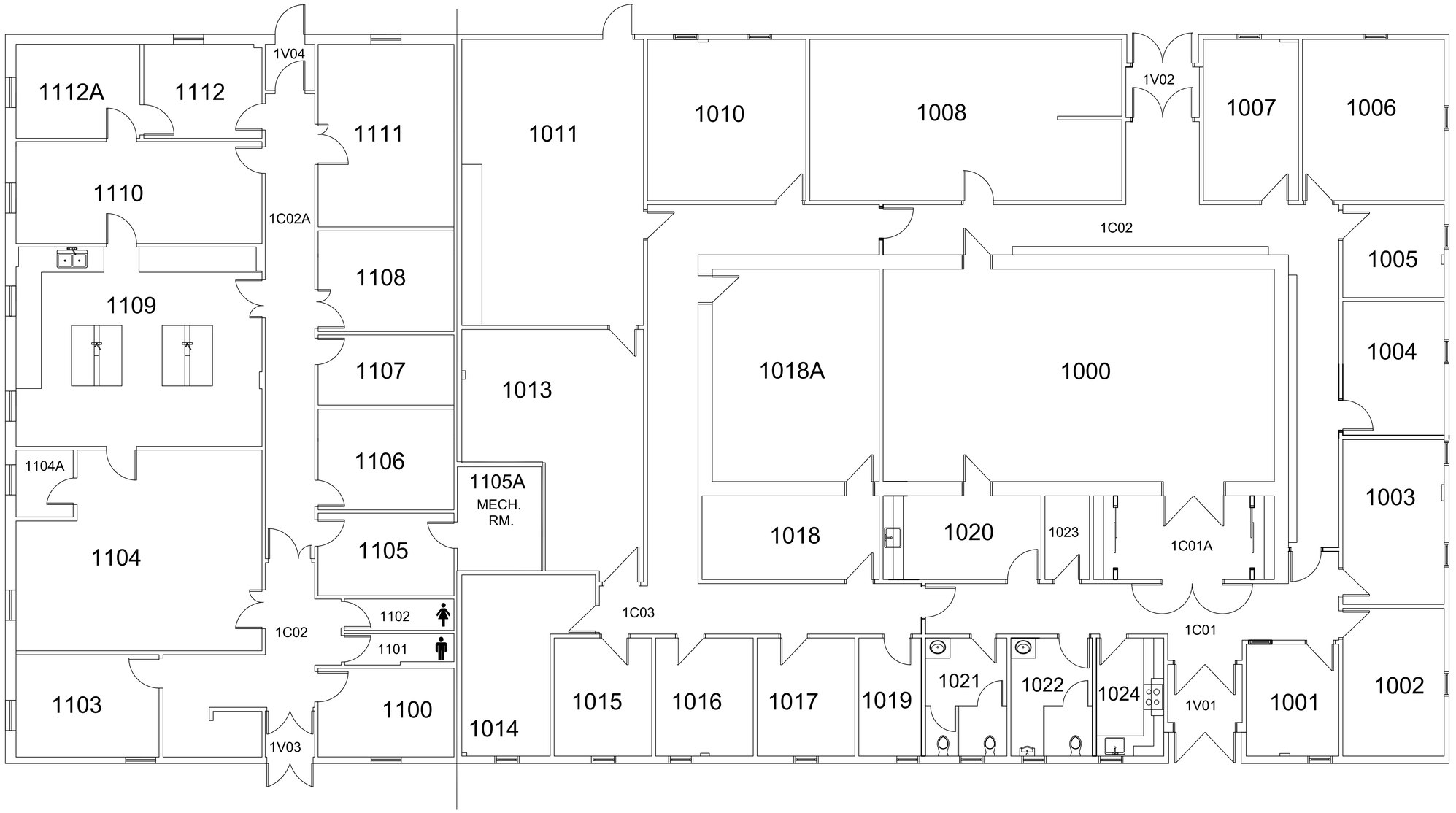
4

PLUMBING VENT

PLUMBING VENT

EXHAUST HOOD

MT. SCIO RD. RESEARCH LABS
LEVEL ONE



REVISION DATE	
94-05-31	
95-01-30	
JUNE 1/00	BS
JUNE 1/01	BS
MAY 16/02	MM
JULY 30/03	MM
MAY-2009	BS

PREFIX -MS

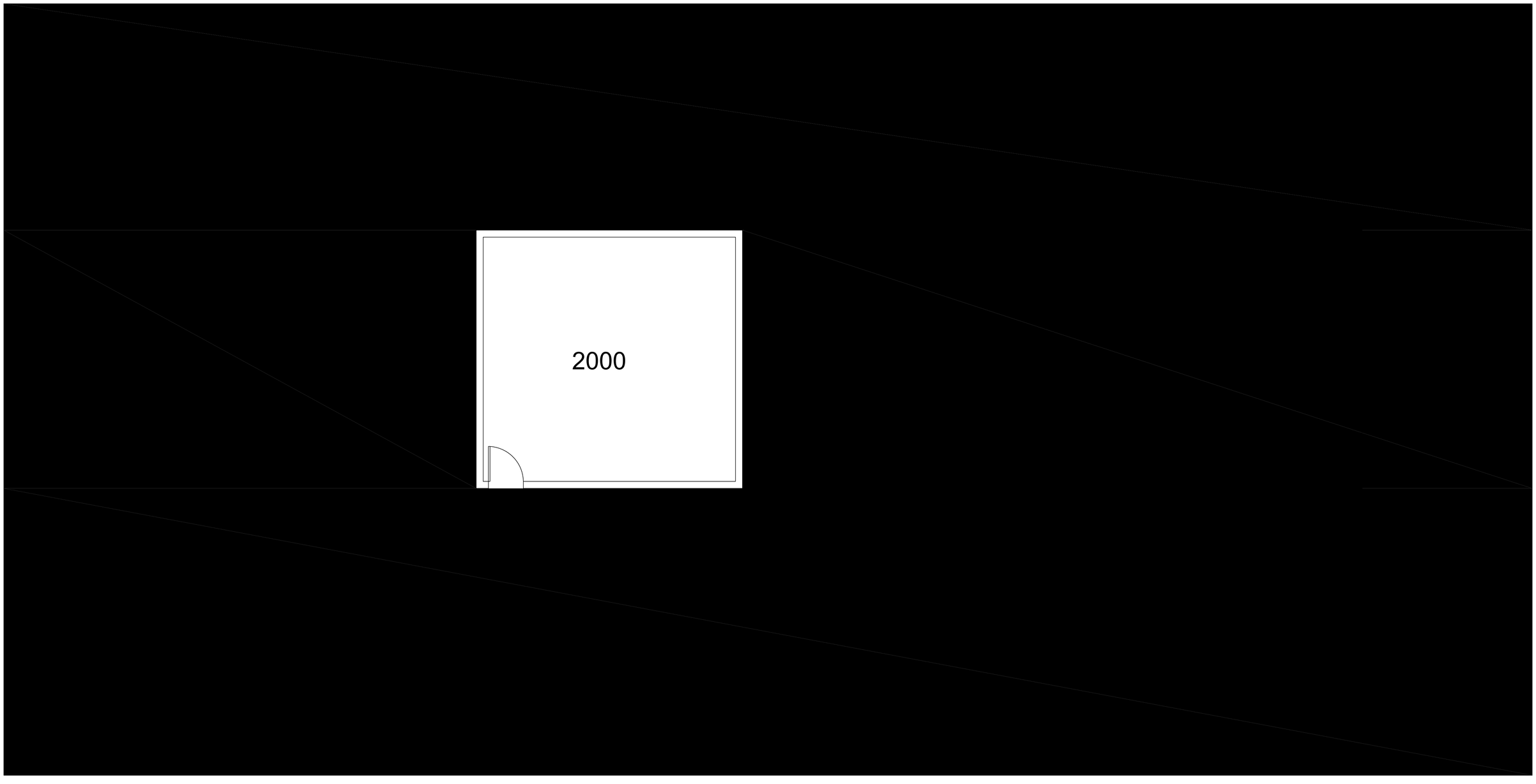
1 Metre

MT. SCIO RD. RESEARCH LABS
LEVEL TWO

N

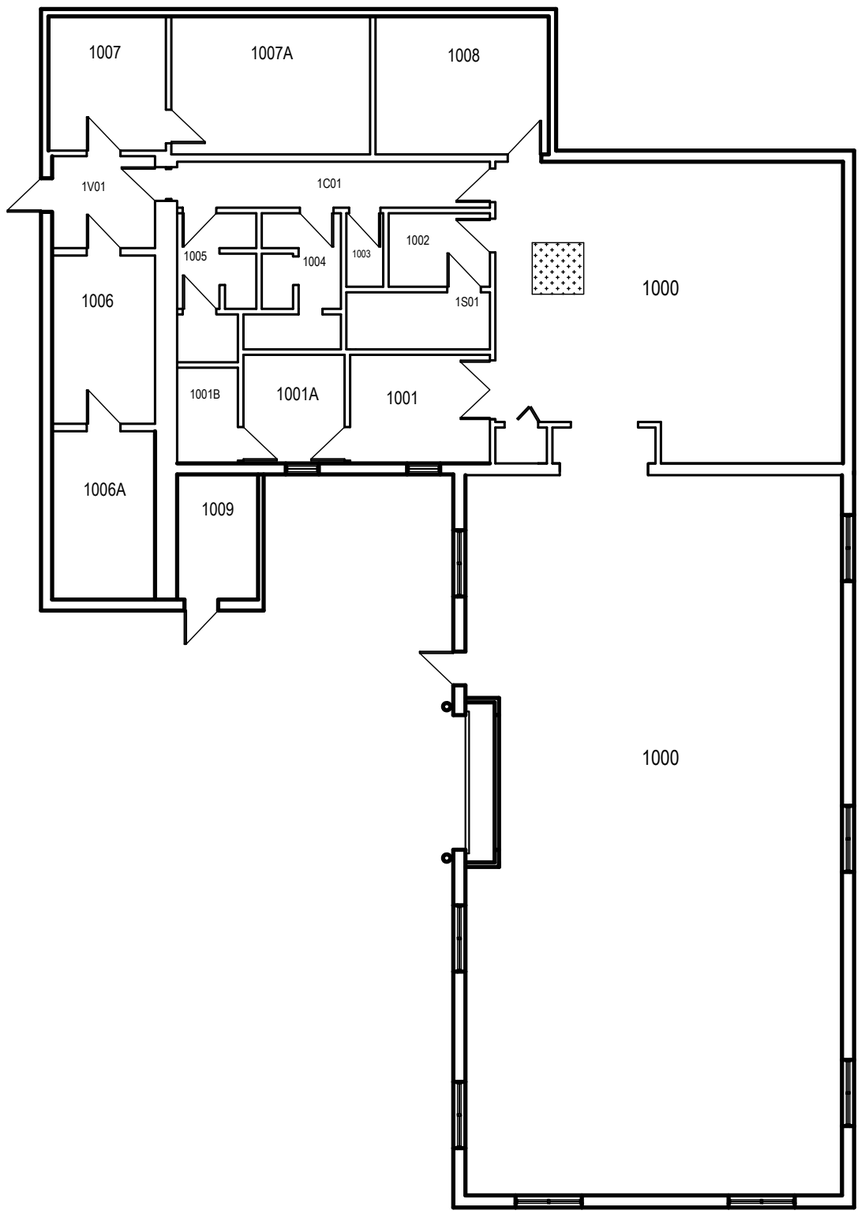
REVISION DATE	
94-05-31	
94-01-30	
JUNE 1/00	BS
MAY-2009	BS

PREFIX-MS

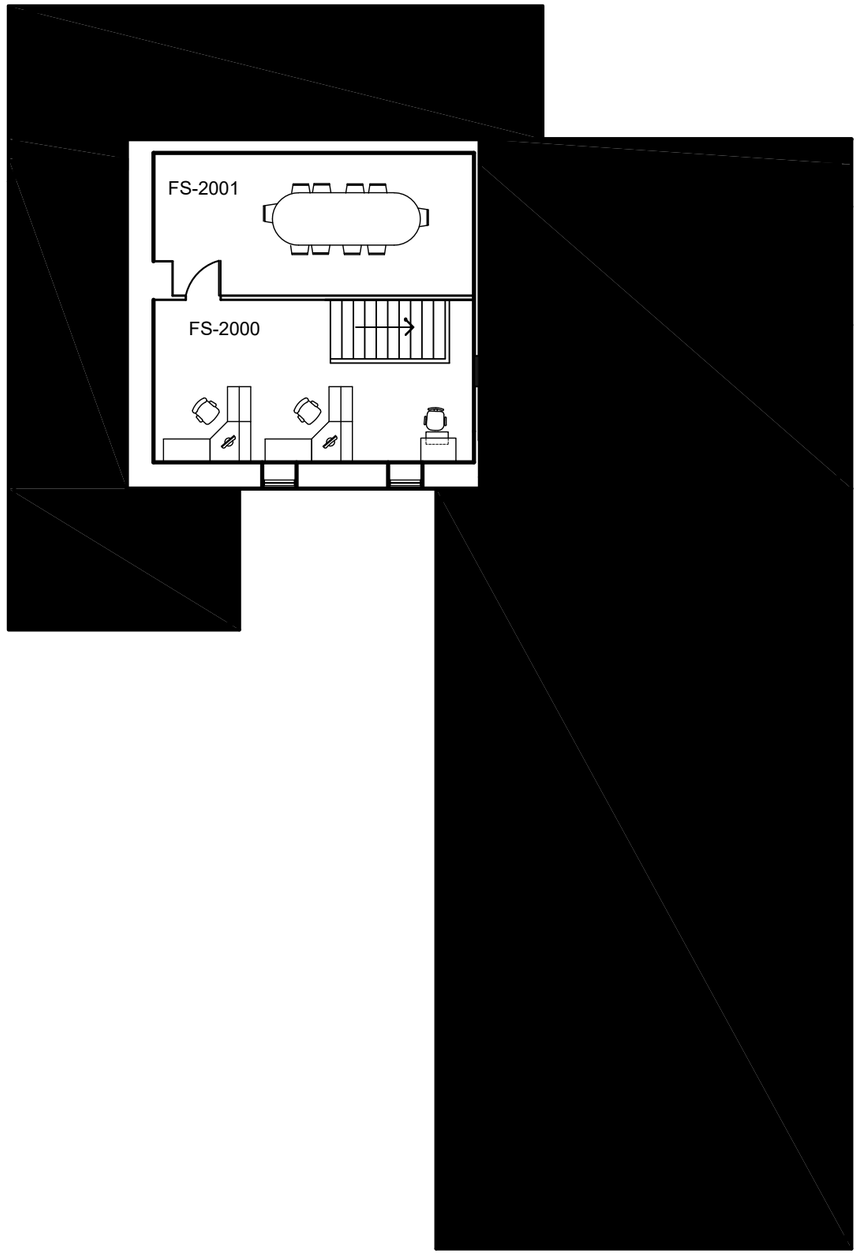


FOOD PILOT BUILDING
(MT. SCIO ROAD)
LEVEL ONE

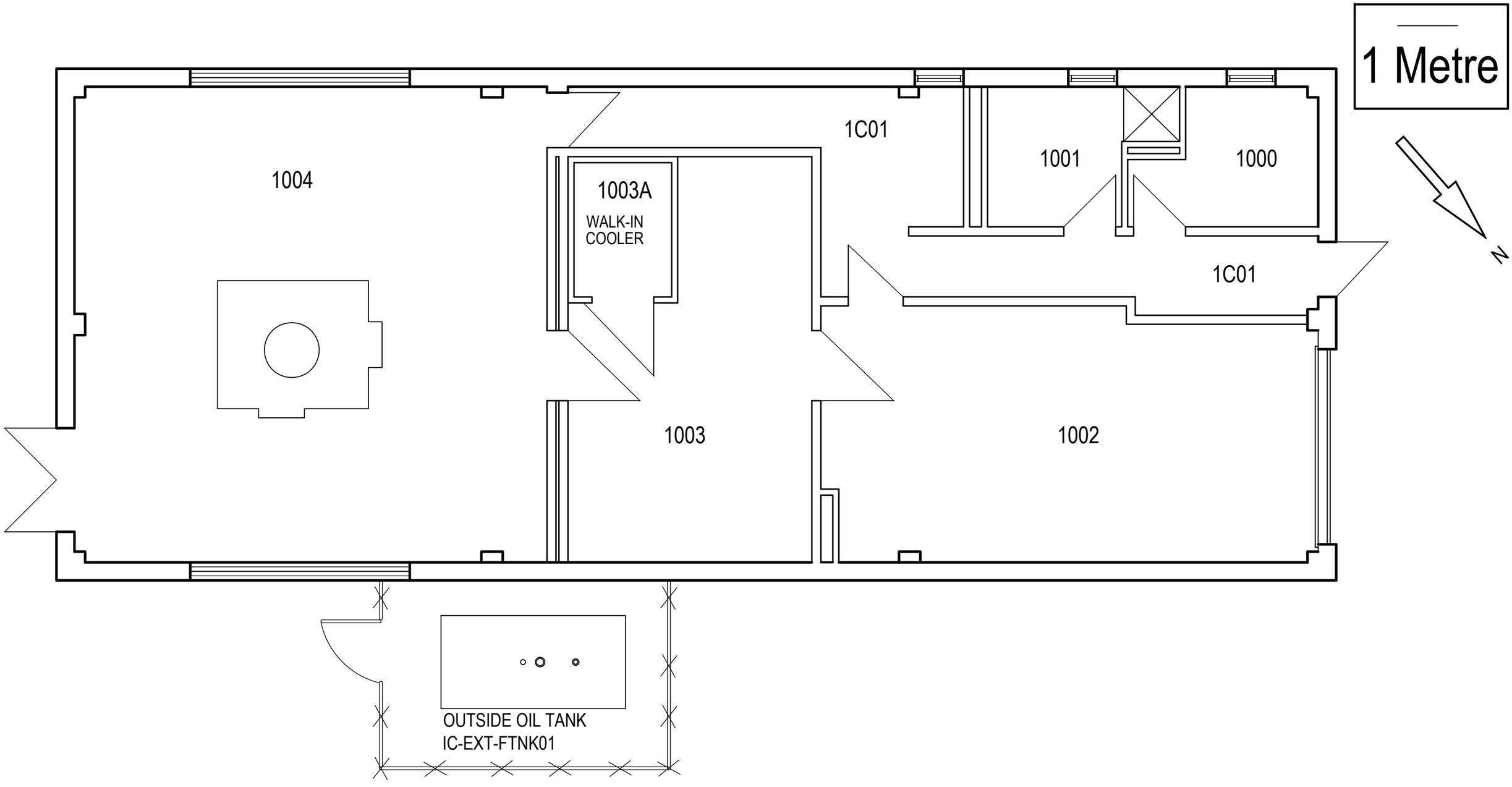
1 Metre



FOOD PILOT BUILDING
(MT. SCIO ROAD)
LEVEL TWO - MEZZANINE

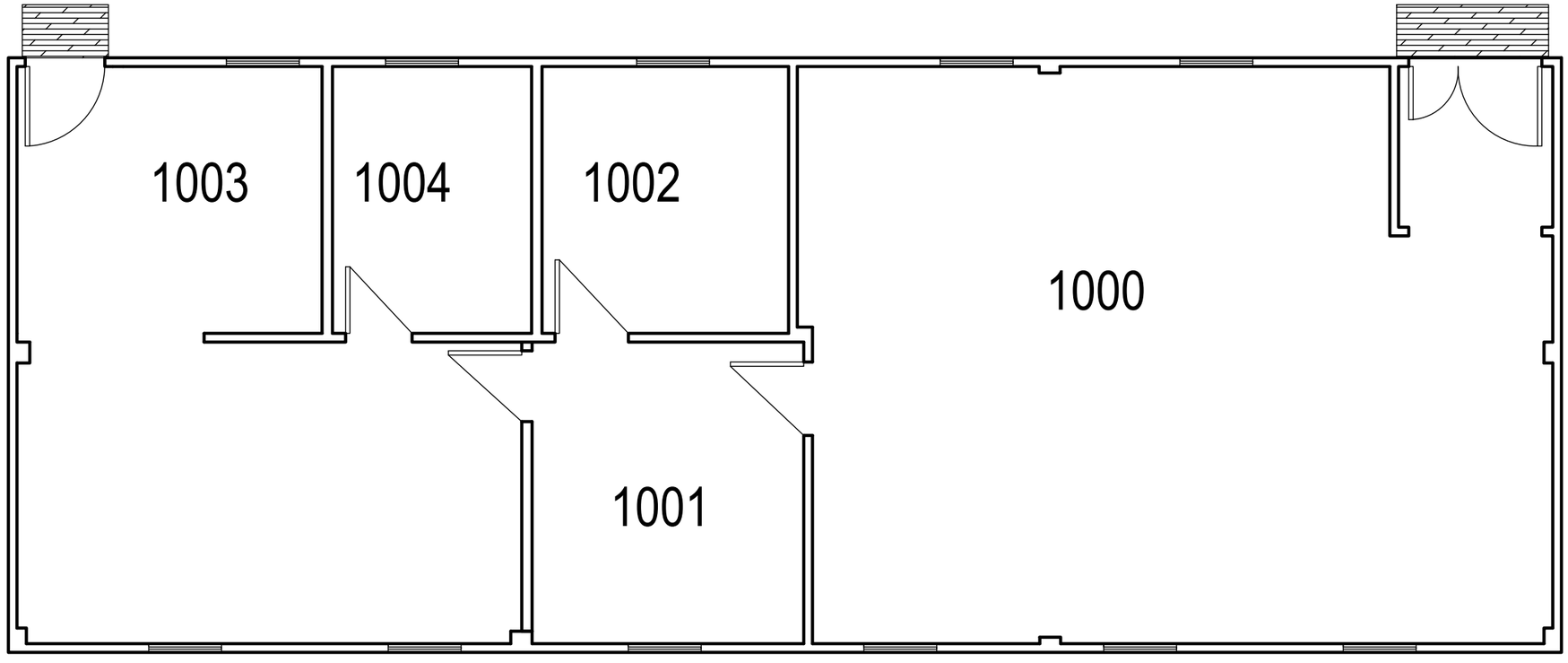


INCINERATOR BUILDING
LEVEL ONE



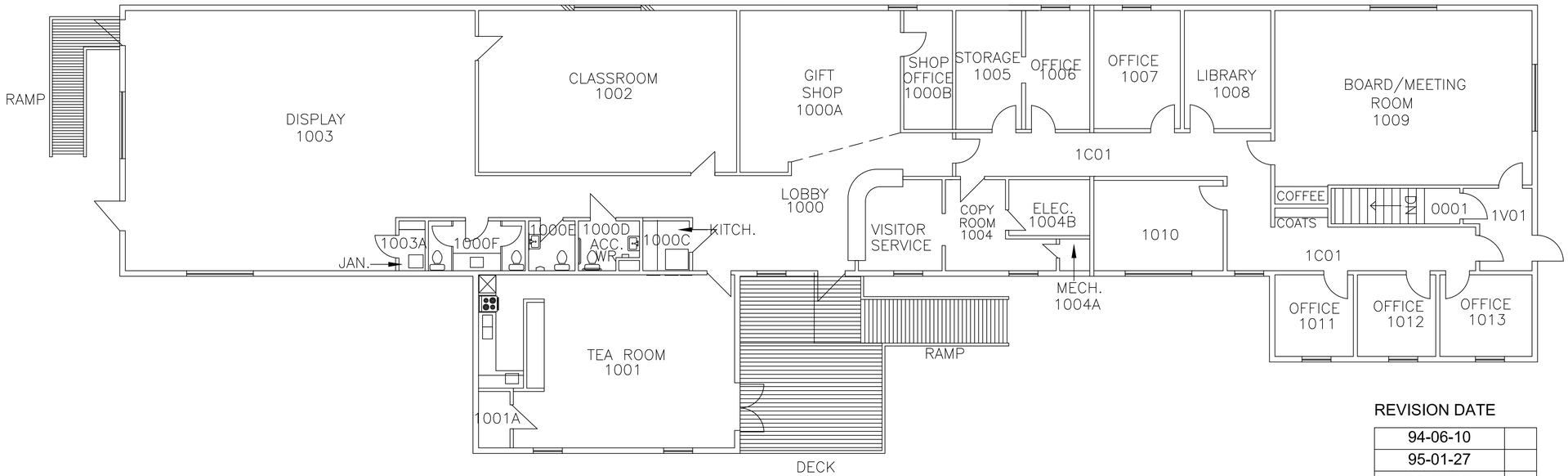
STORAGE ANNEX.
LEVEL 1

1 Metre



LEVEL ONE
BOTANICAL GARDEN
INTERPRETIVE CENTRE

N



REVISION DATE

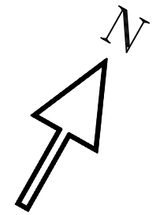
94-06-10	
95-01-27	
95-02-22	
JUNE 2/00	BS
JAN./03	BS
Oct./03	MM
April 19, 2016	PF

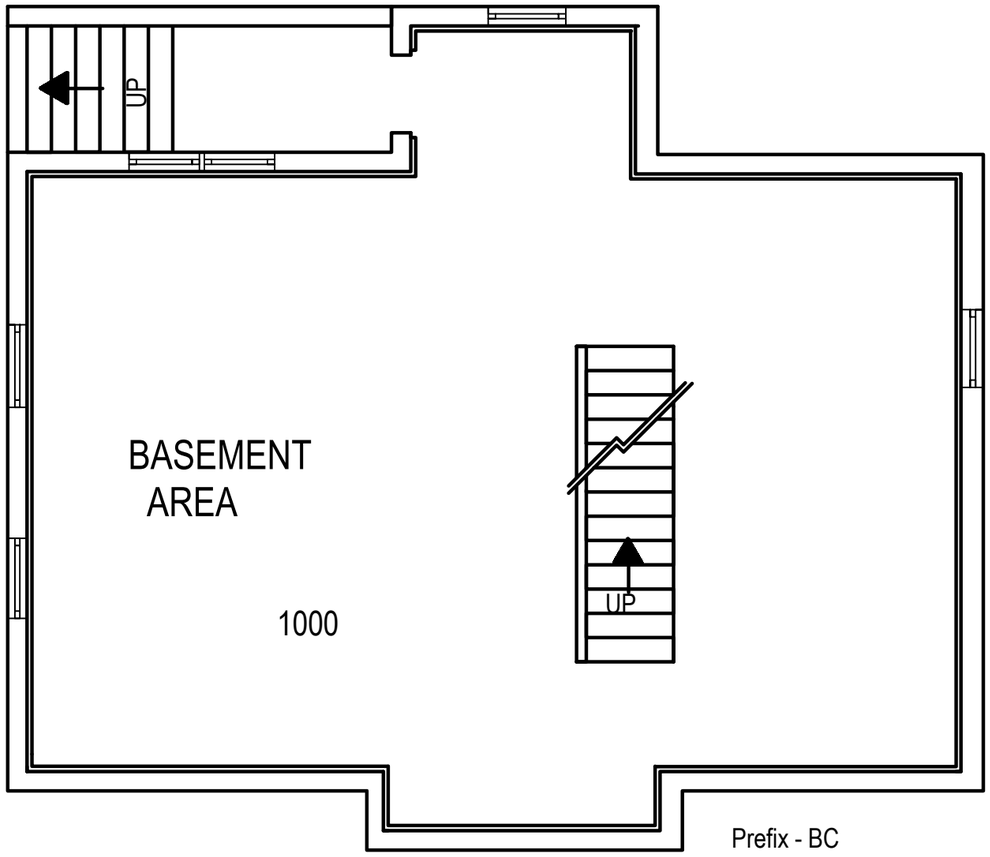
PREFIX BG

BASEMENT LEVEL

CARETAKERS RESIDENCE

LEVEL 1

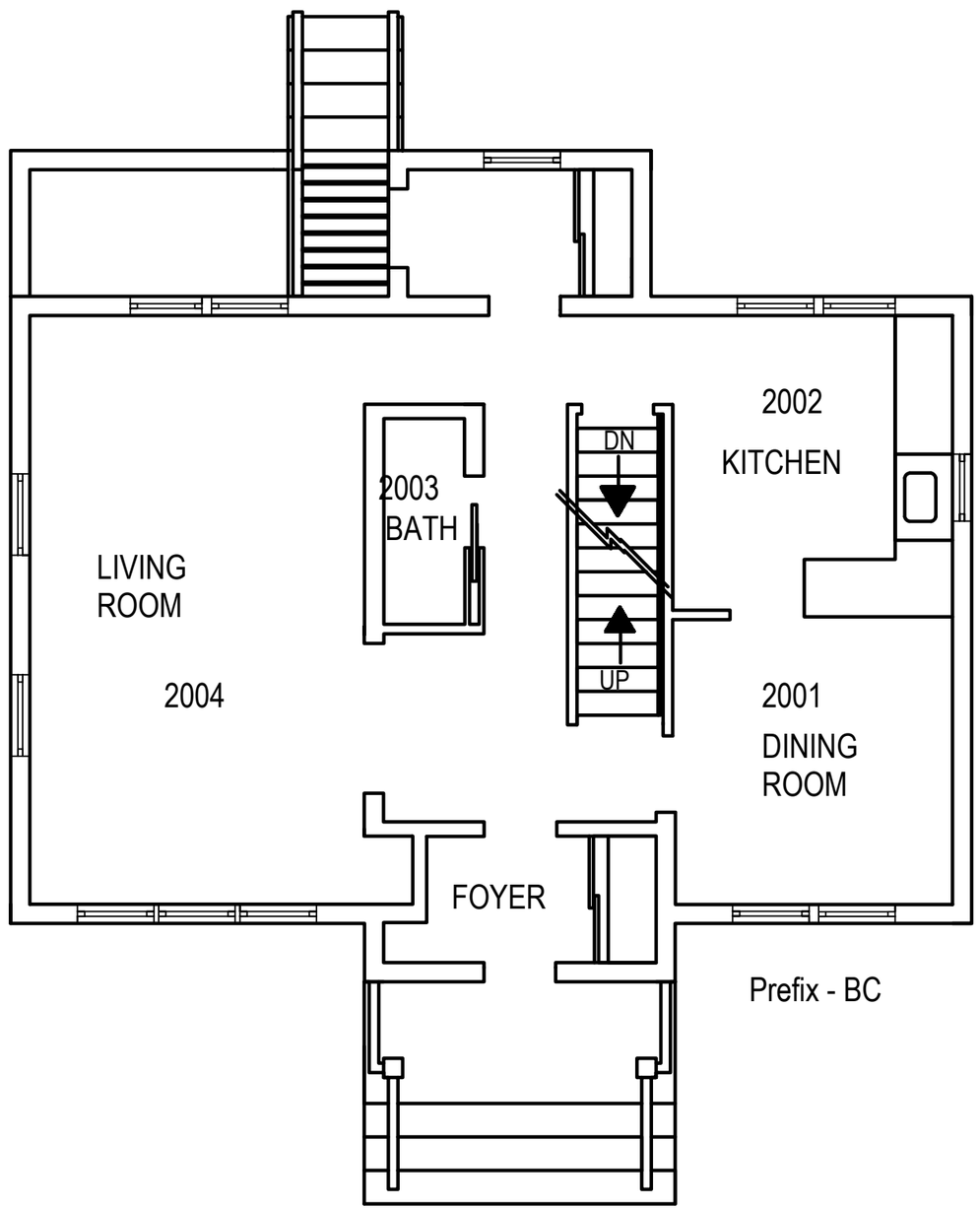




Prefix - BC

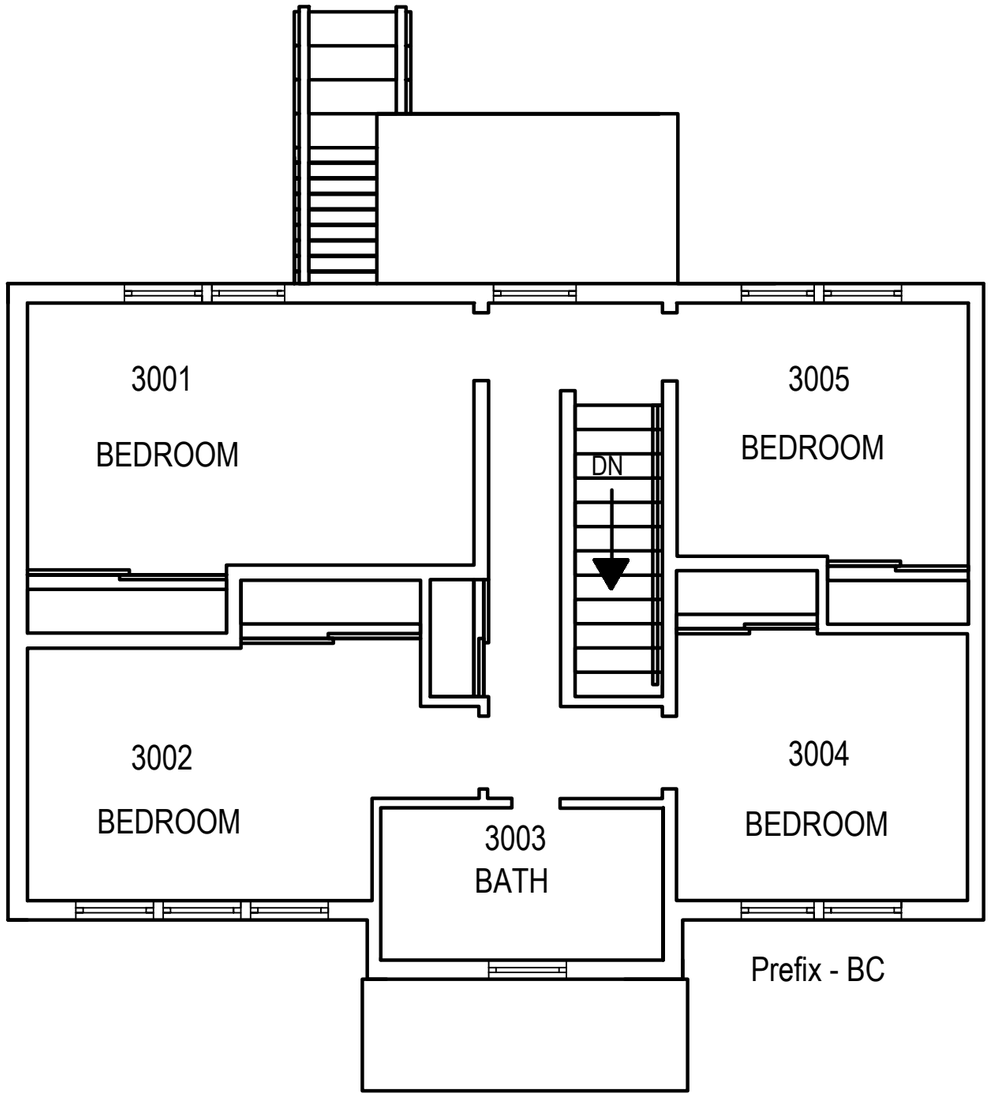
CARETAKERS RESIDENCE

LEVEL 2

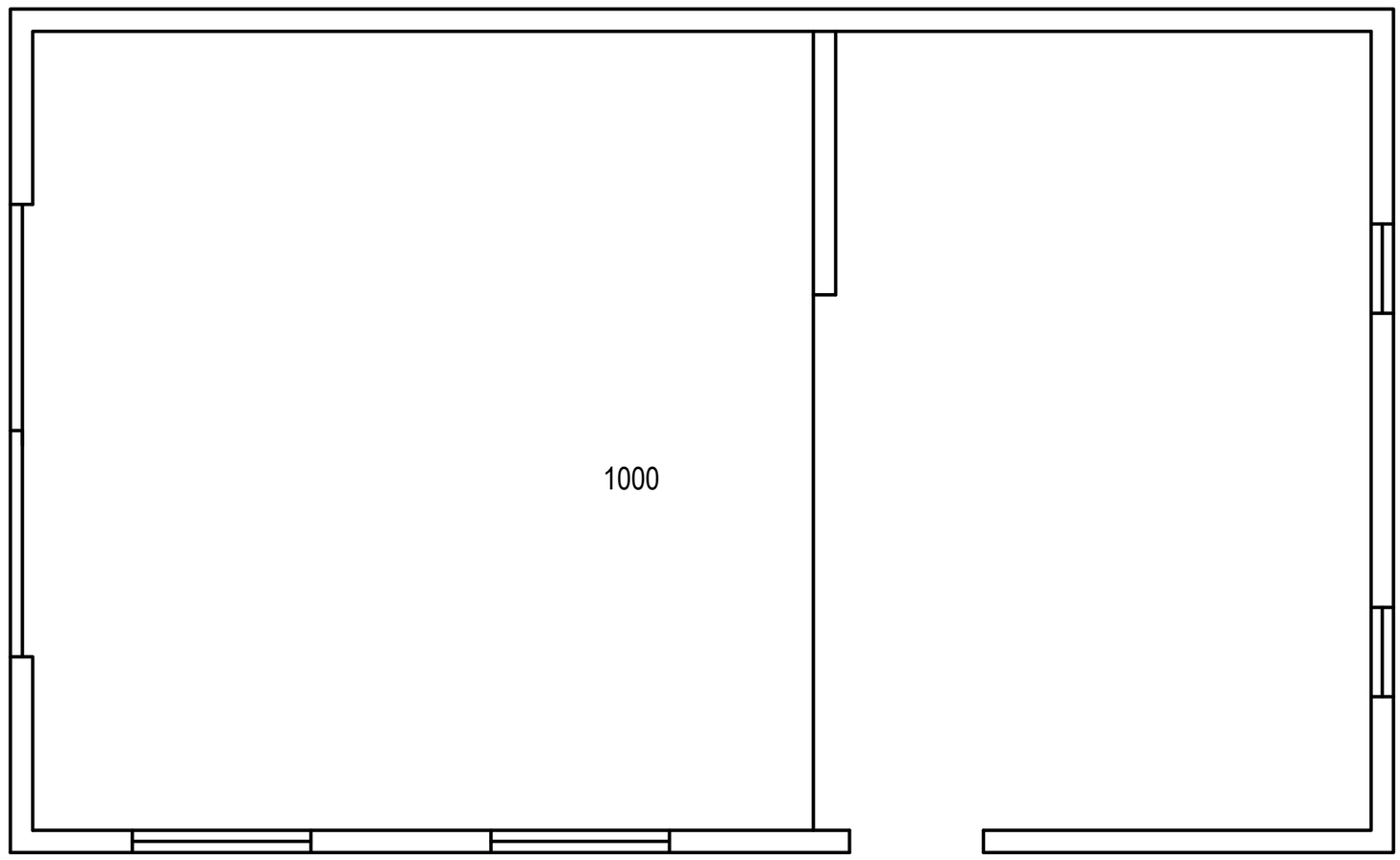


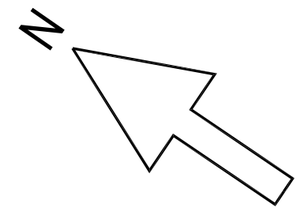
CARETAKERS RESIDENCE

LEVEL 3



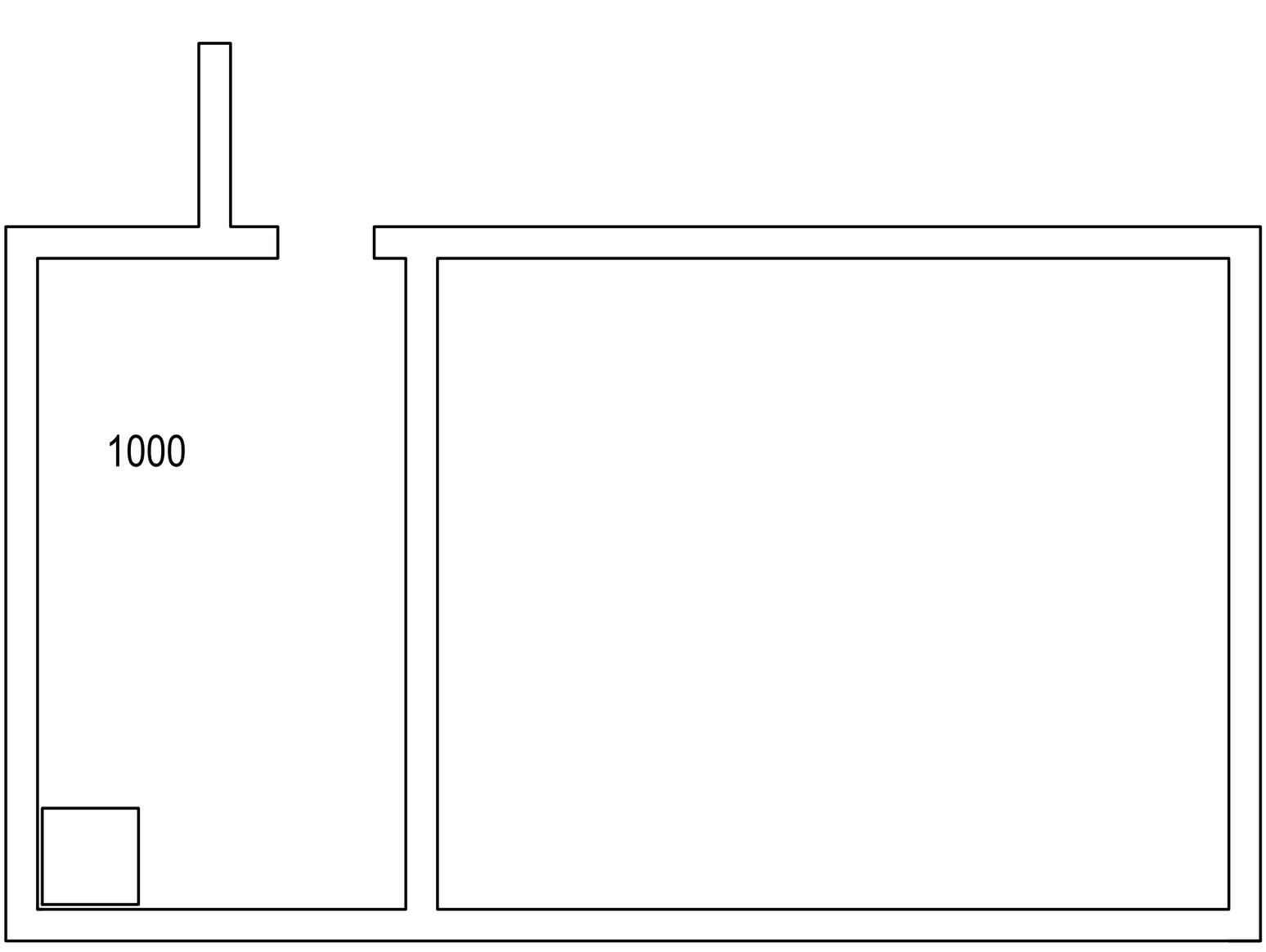
BOTANICAL GARDENS
GARAGE





GREENHOUSE

LEVEL 1

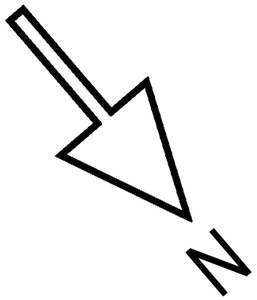


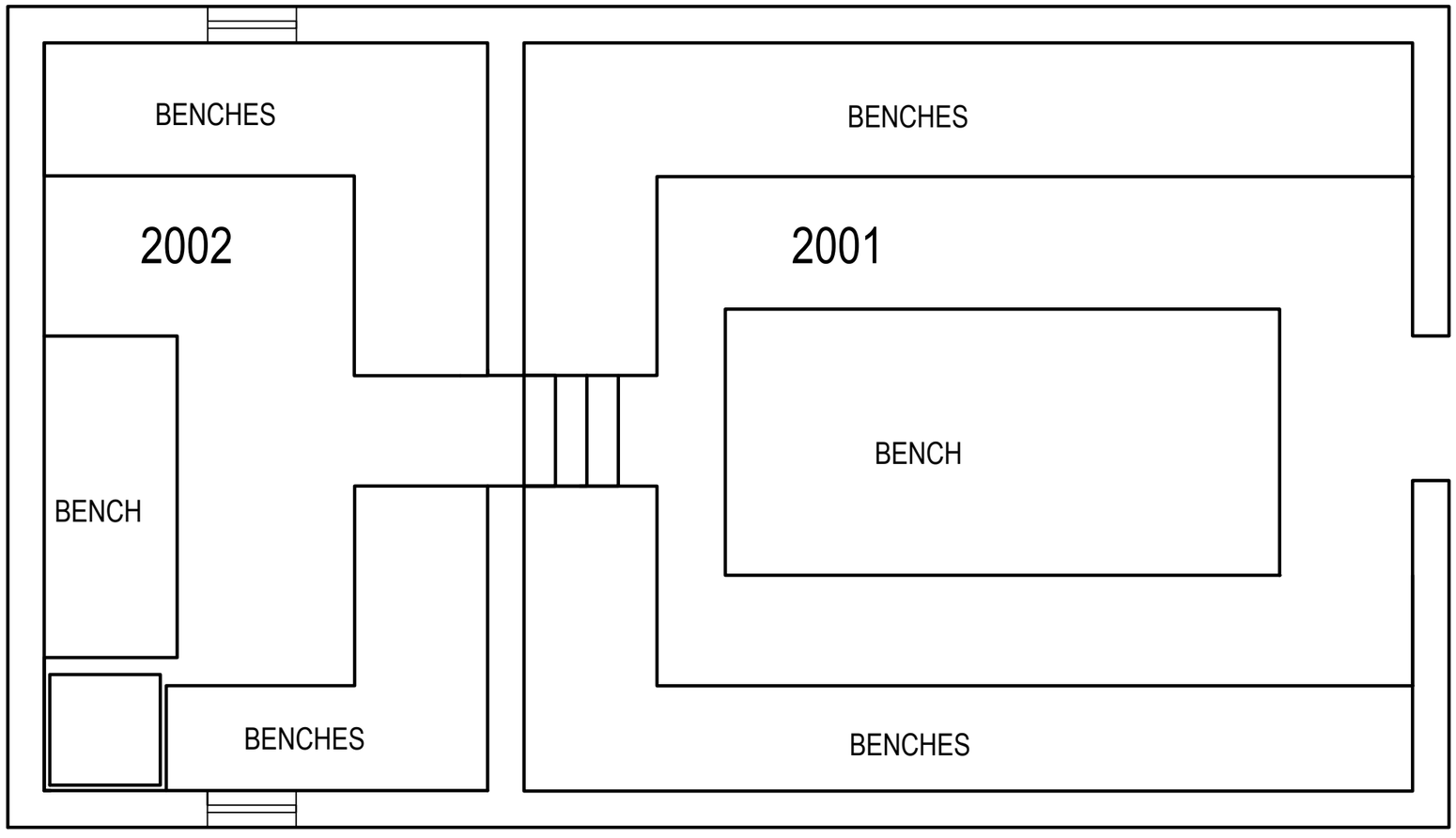
N

Prefix - BH

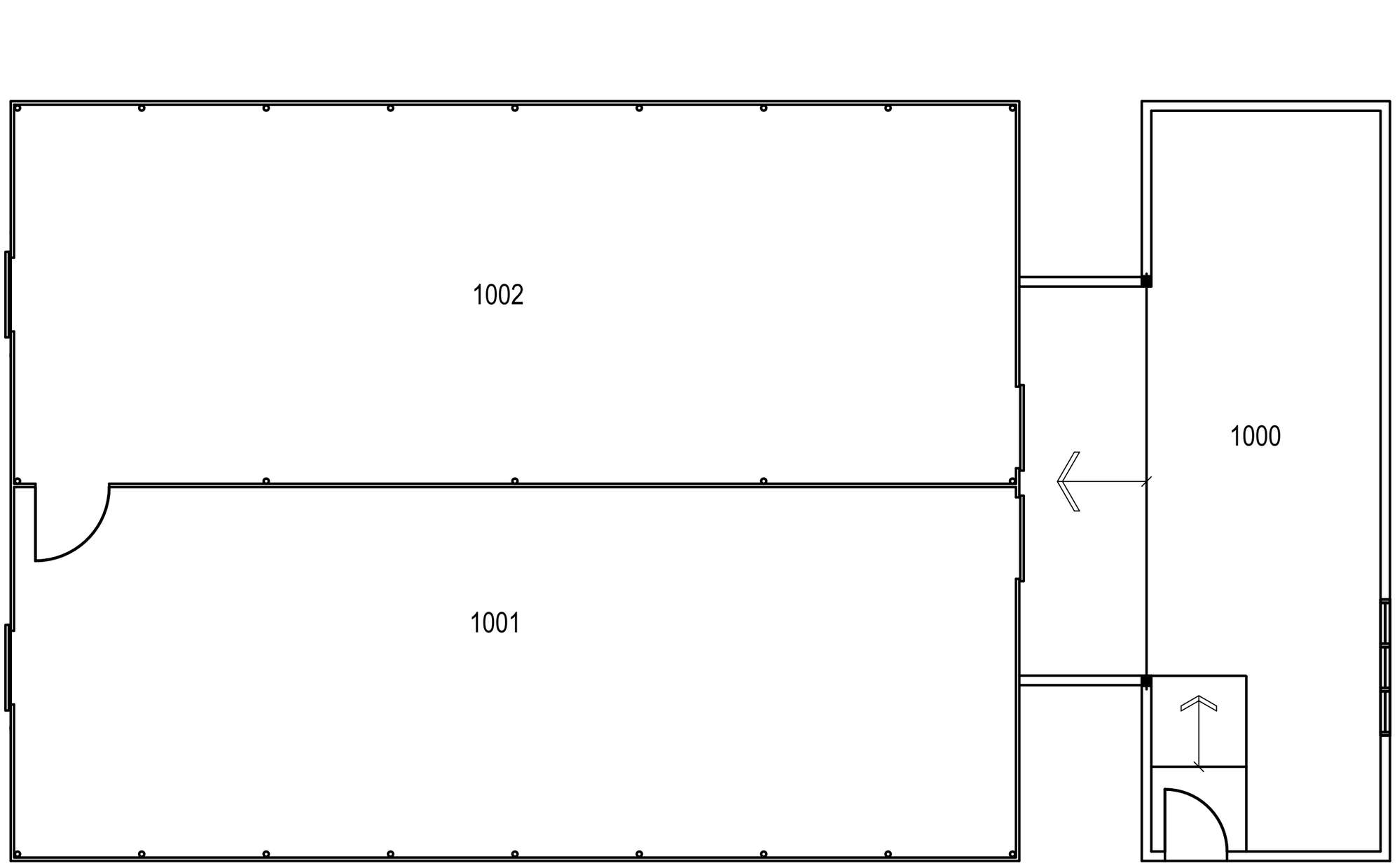
GREENHOUSE

LEVEL 2



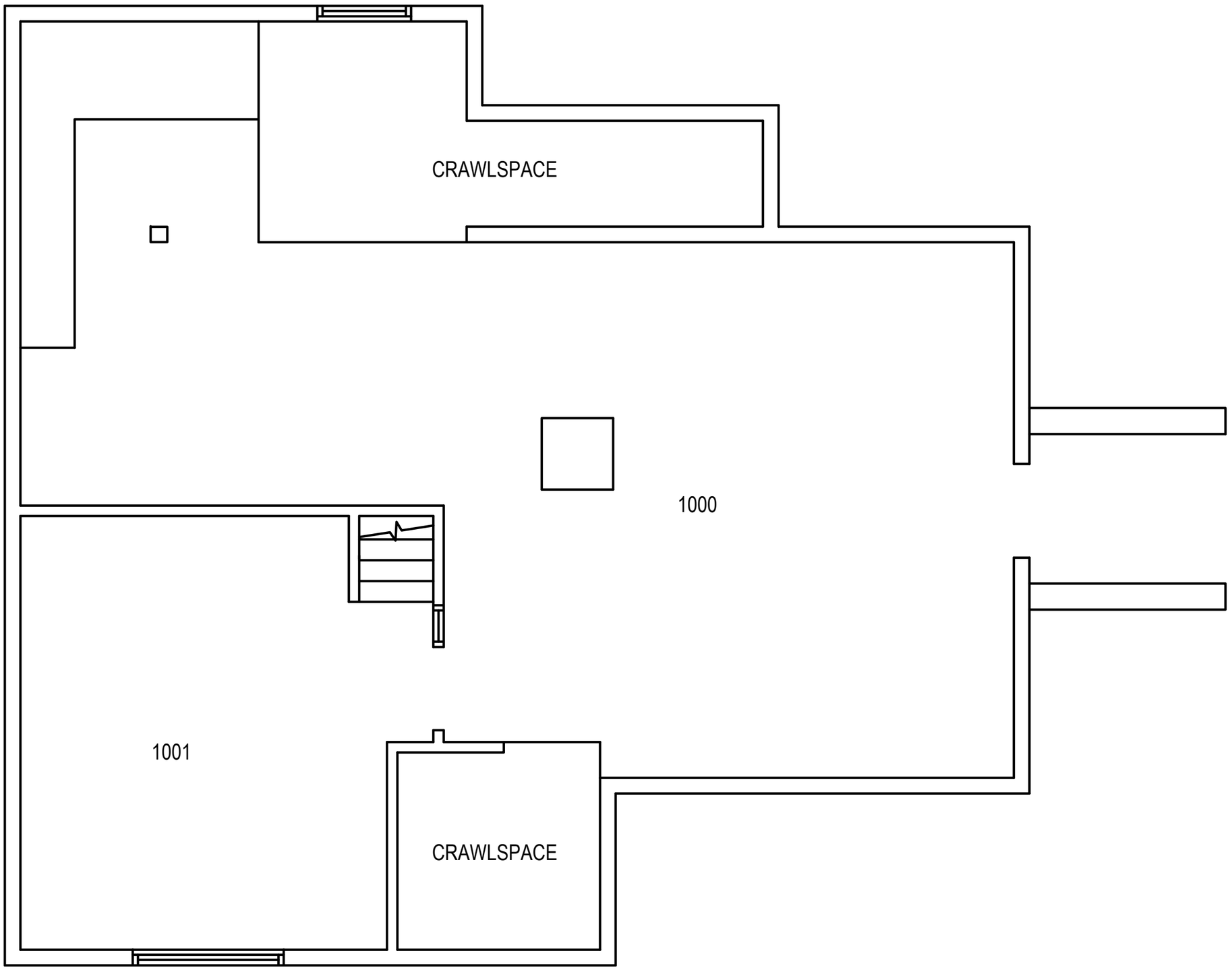


GREENHOUSE FACILITY
BOTANICAL GARDENS
LEVEL ONE

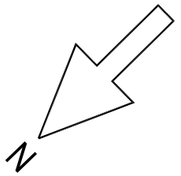


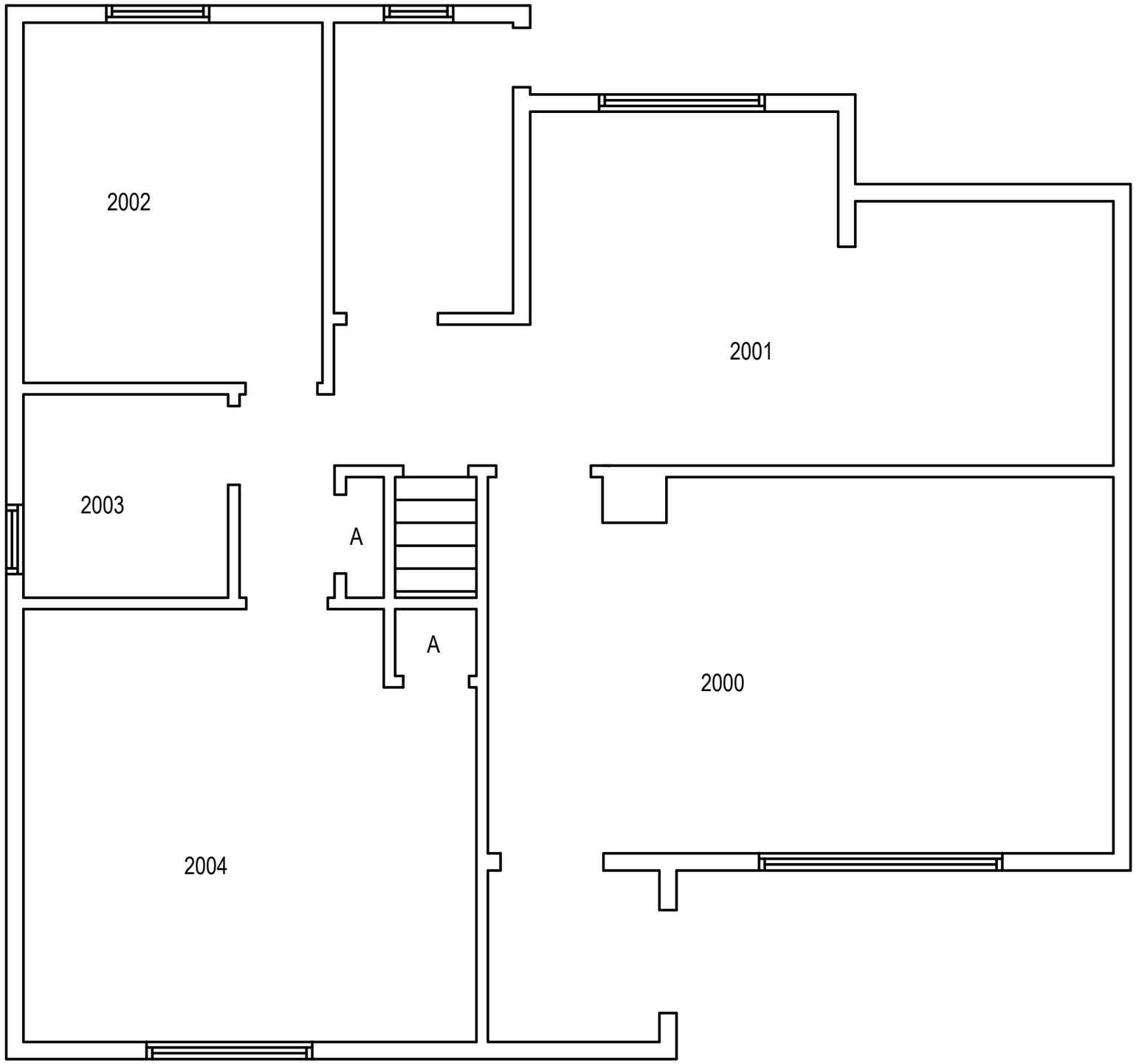
BOTANICAL GARDENS HOUSE (307)

LEVEL 1



BOTANICAL GARDENS HOUSE (307)
LEVEL 2





UA

UTILITIES ANNEX
LEVEL 1

1 Metre

N

1007

1004

1006

1008

1005

1S03

SERVICE TUNNEL
TO HSCC

DN

UA-1D9

9

4

UA-1D4A

UA-1D4B

UP

1S02

DN

1C01

1003

SERVICE TUNNEL
TO SOUTH
CAMPUS

DN

UA-1D10

10

7

UA-1D7

1001

1002

UA-1D3

3

UA-1D2

2

1001A

1S01

UP

UA-1D1

1

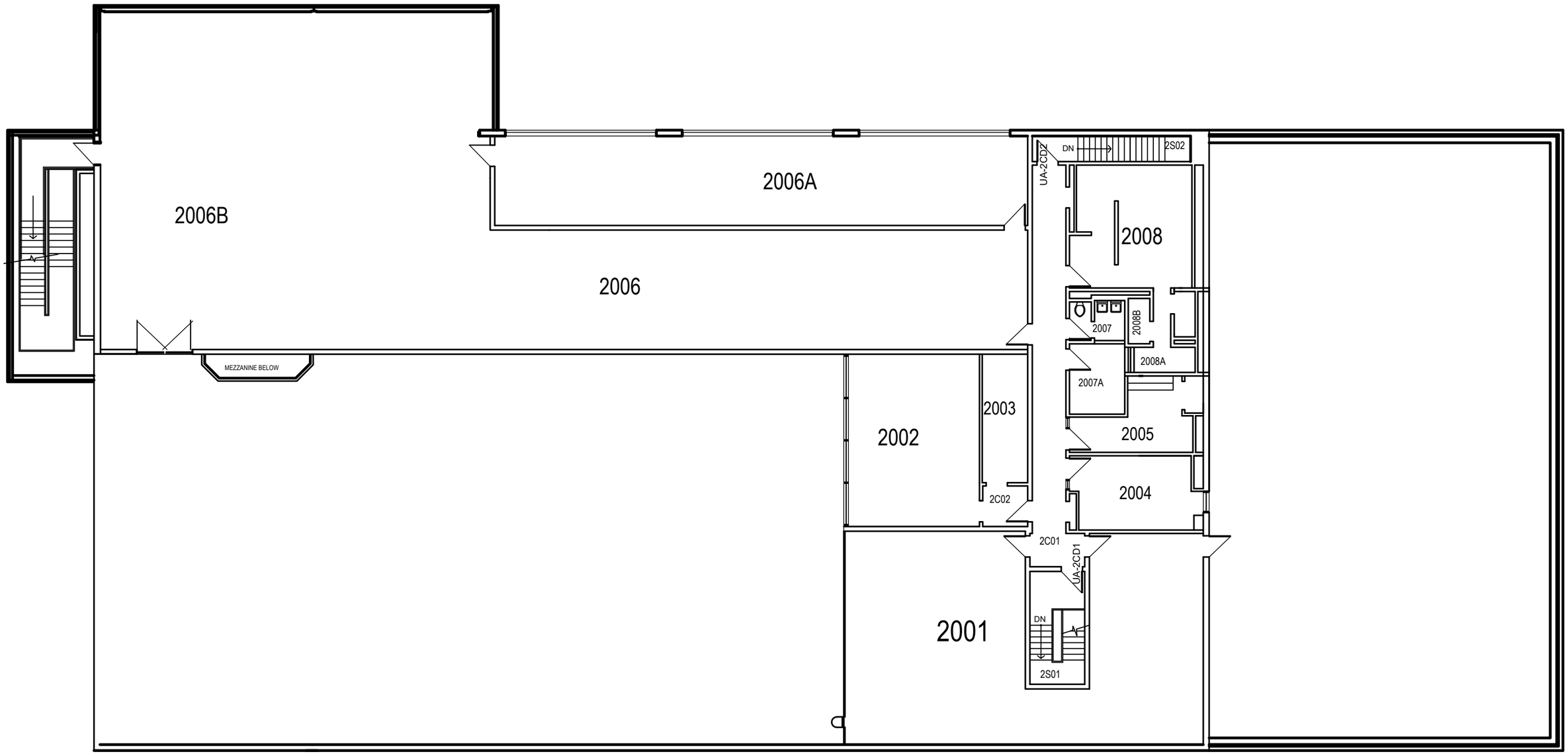
UA-1D8

8

UA

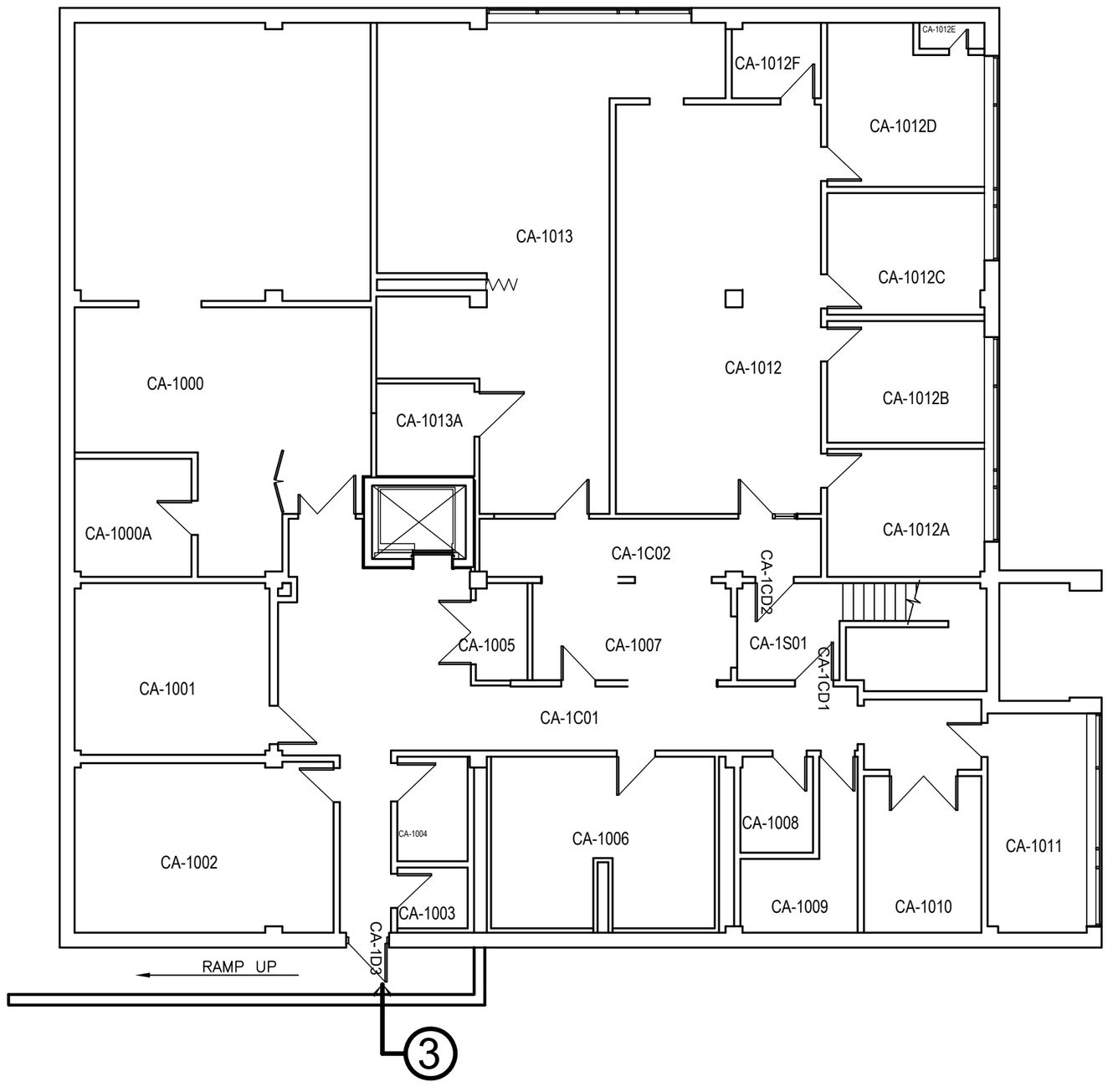
UTILITIES ANNEX
LEVEL 2

1 Metre



CA

GLOBAL LEARNING CENTRE
LEVEL 1

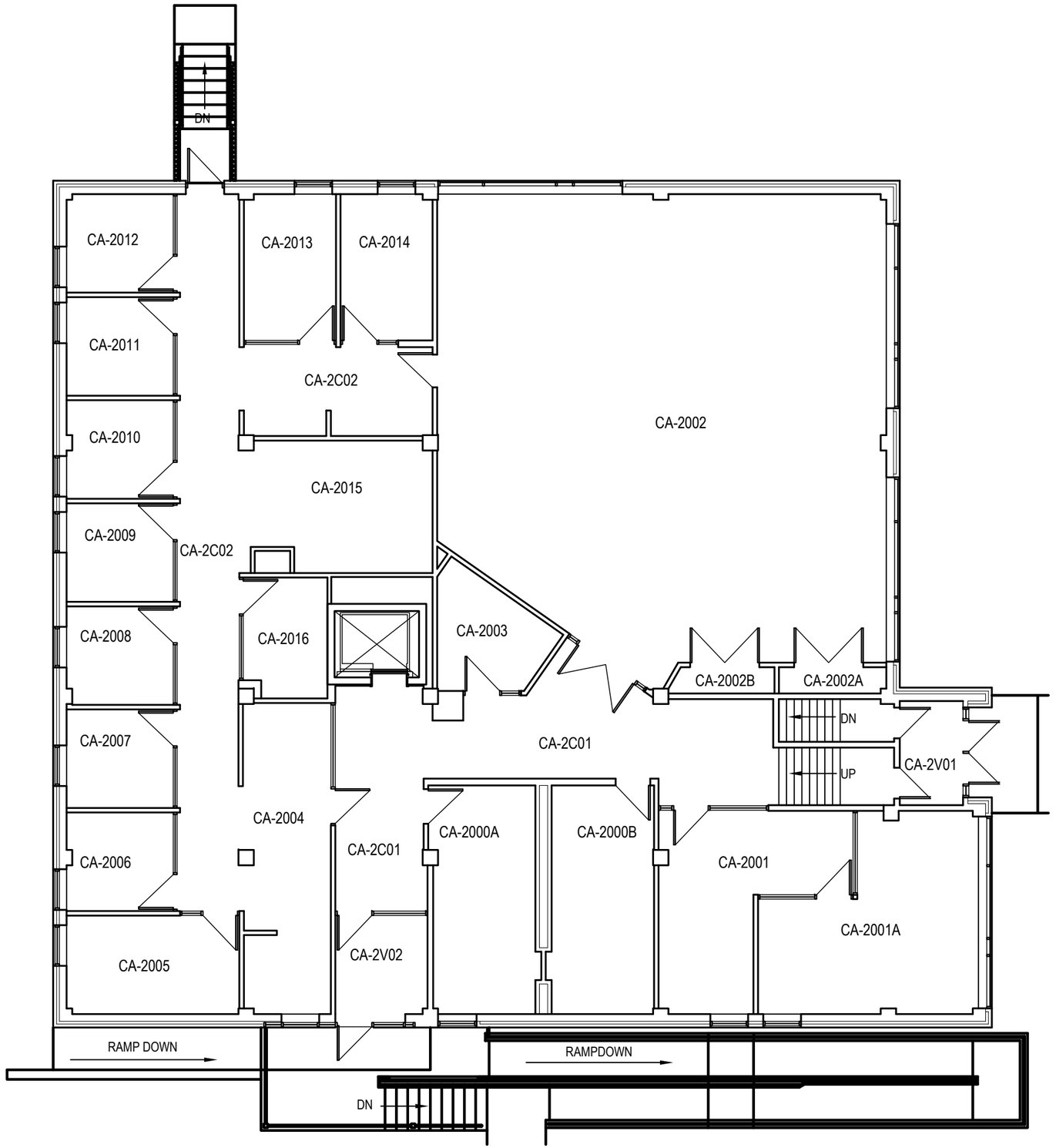


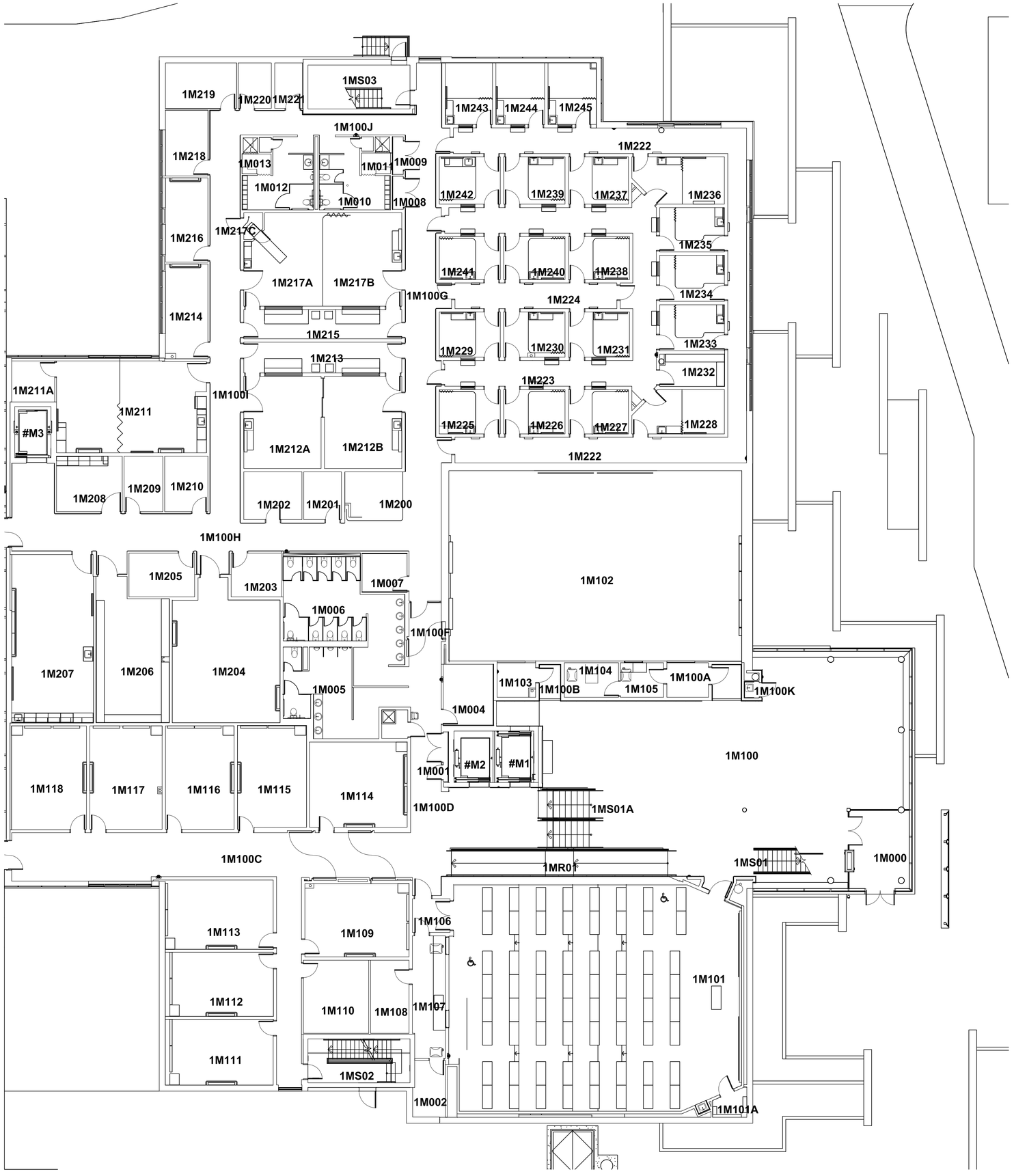
CA

GLOBAL LEARNING CENTRE

LEVEL 2

1 Metre

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1M220
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1M100J
1M218
1M013
1M012
1M011
1M009
1M010
1M008
1M217C
1M216
1M217A
1M217B
1M100G
1M214
1M215
1M213
1M211A
1M100I
1M211
#M3
1M212A
1M212B
1M208
1M209
1M210
1M202
1M201
1M200
1M100H
1M205
1M203
1M007
1M006
1M100F
1M207
1M206
1M204
1M005
1M004
1M118
1M117
1M116
1M115
1M114
1M001
#M2
#M1
1M100D
1M100C
1M113
1M109
1M112
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1MS02
1M106
1M002
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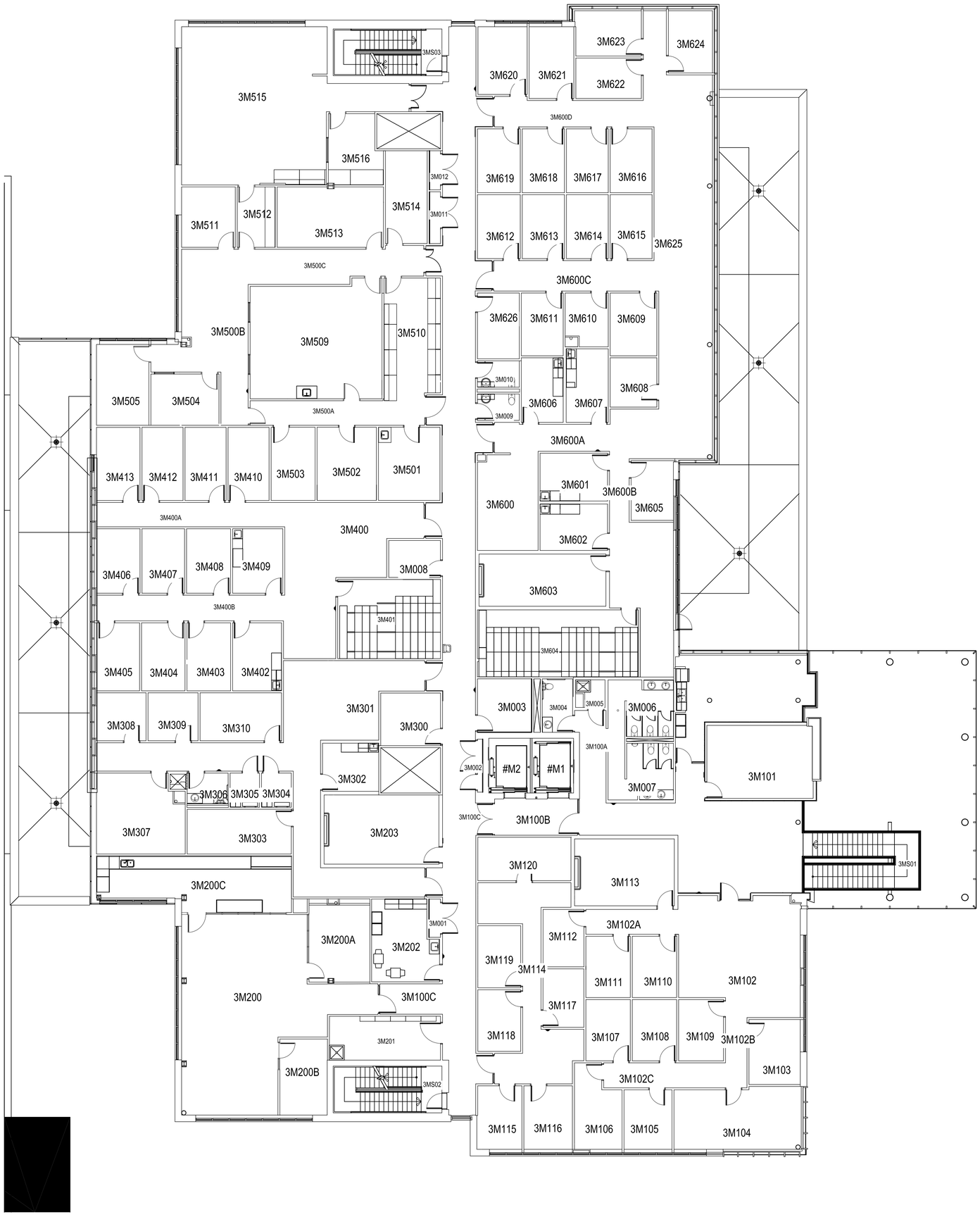
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3M202
3M200
3M100C
3M201
3M200B
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3M614
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3M600C
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3M005
3M006
3M100A
3M002
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#M1
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3M101
3M100B
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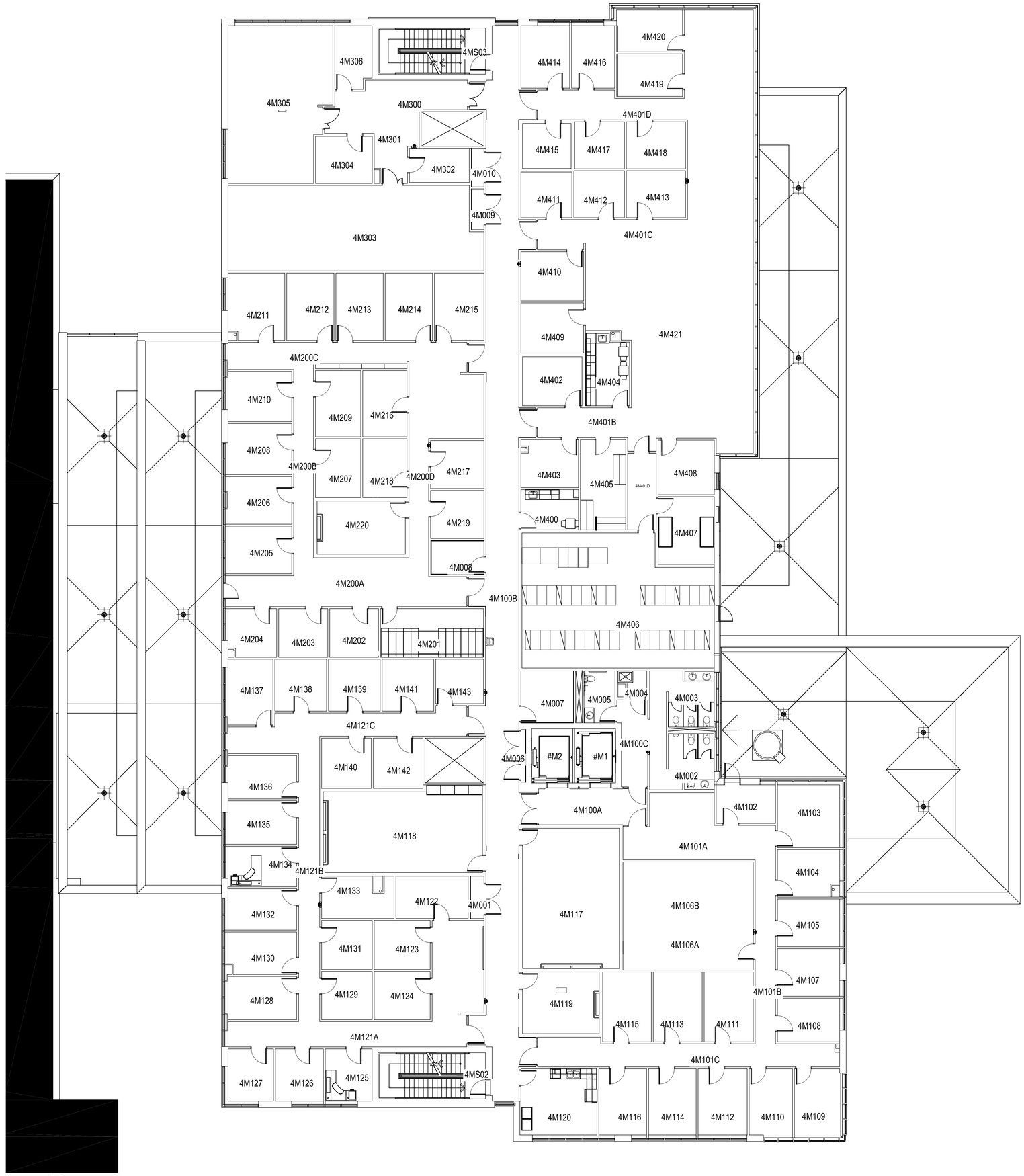
3M104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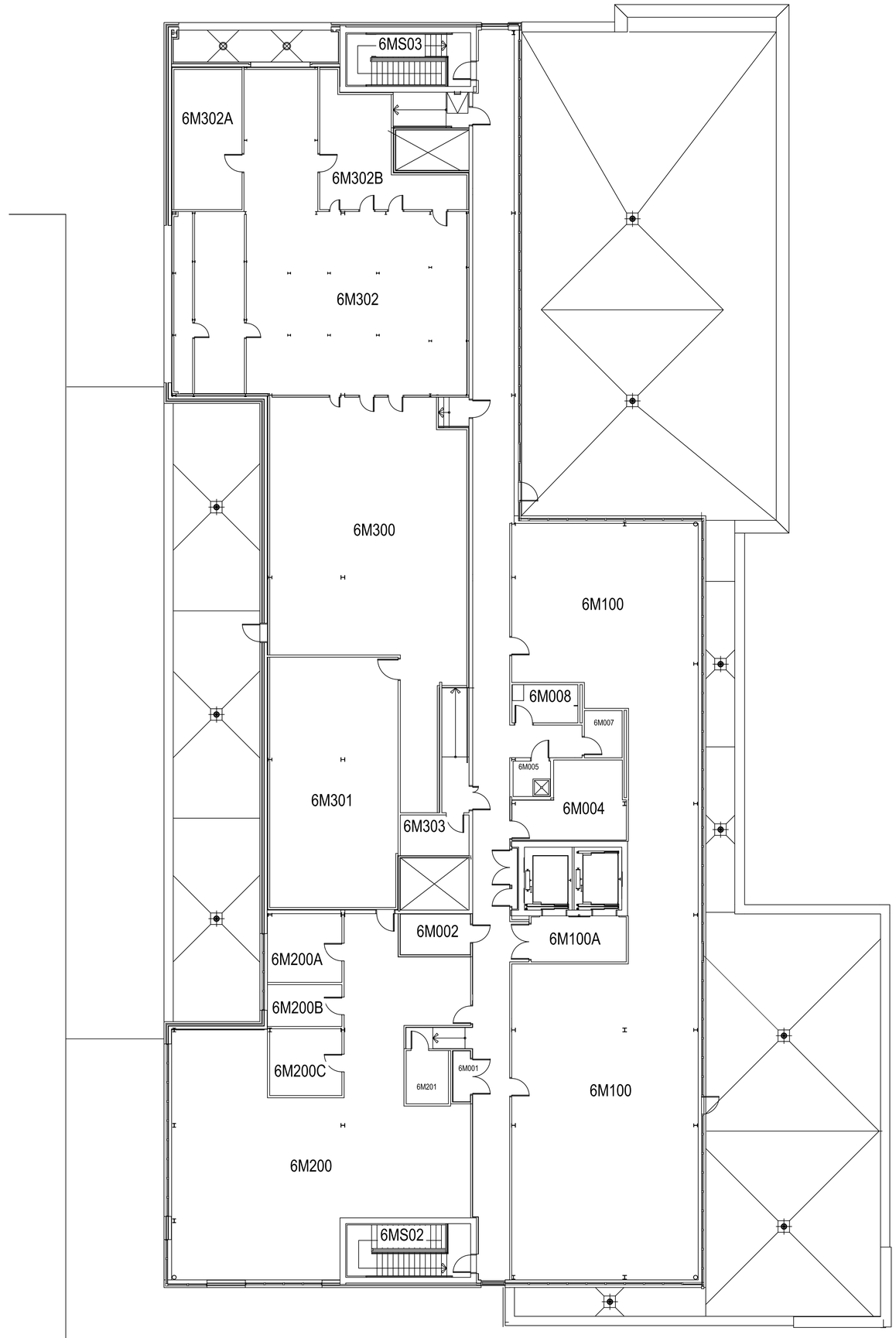
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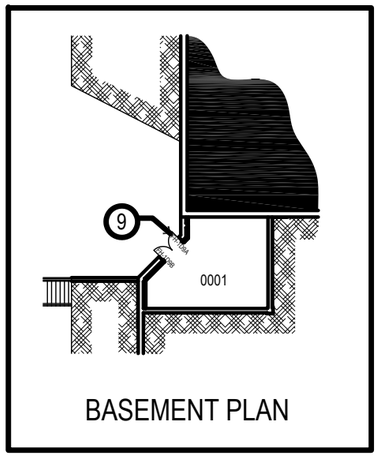
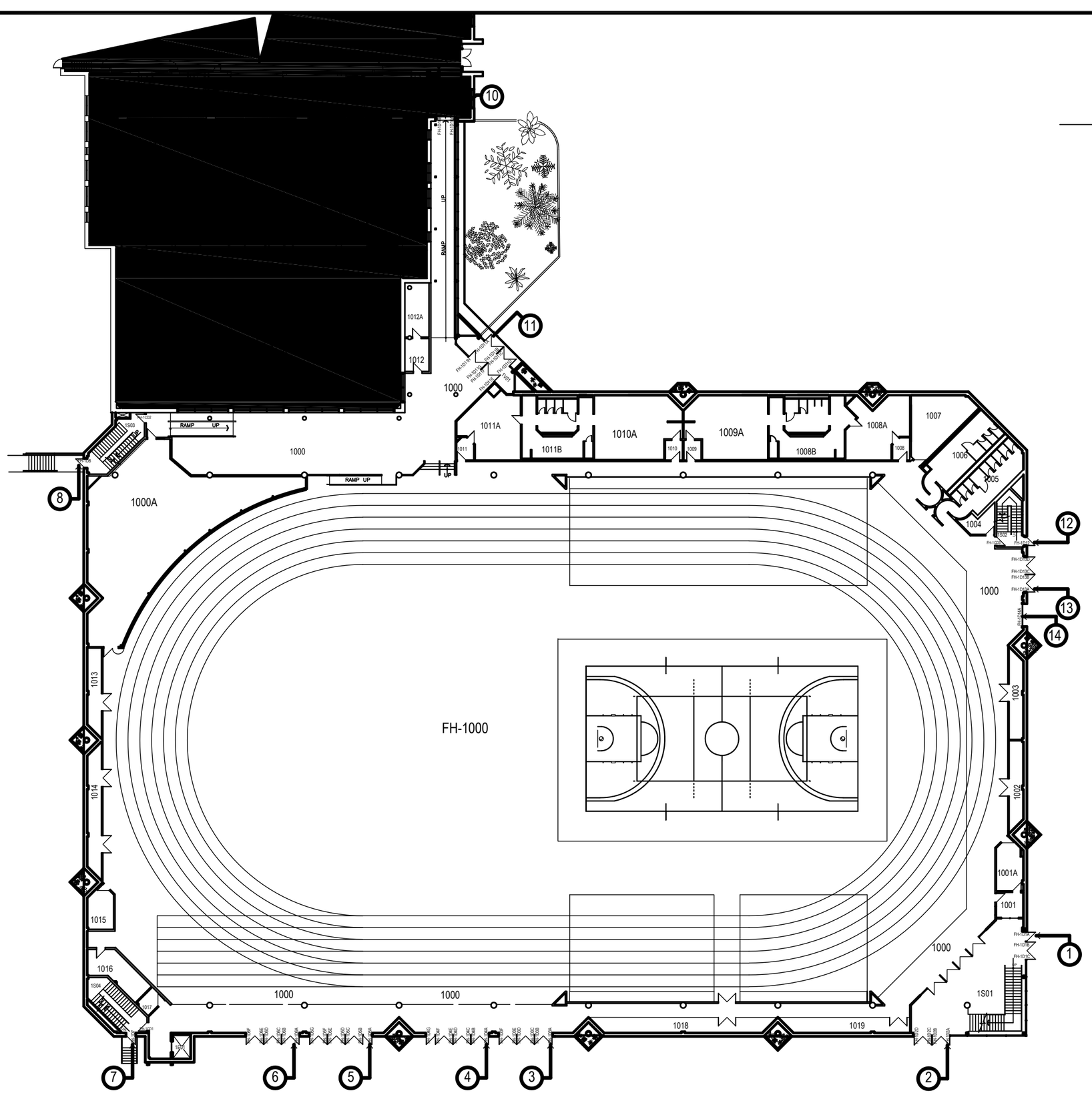
FH

FIELD HOUSE
LEVEL 1

1 Metre



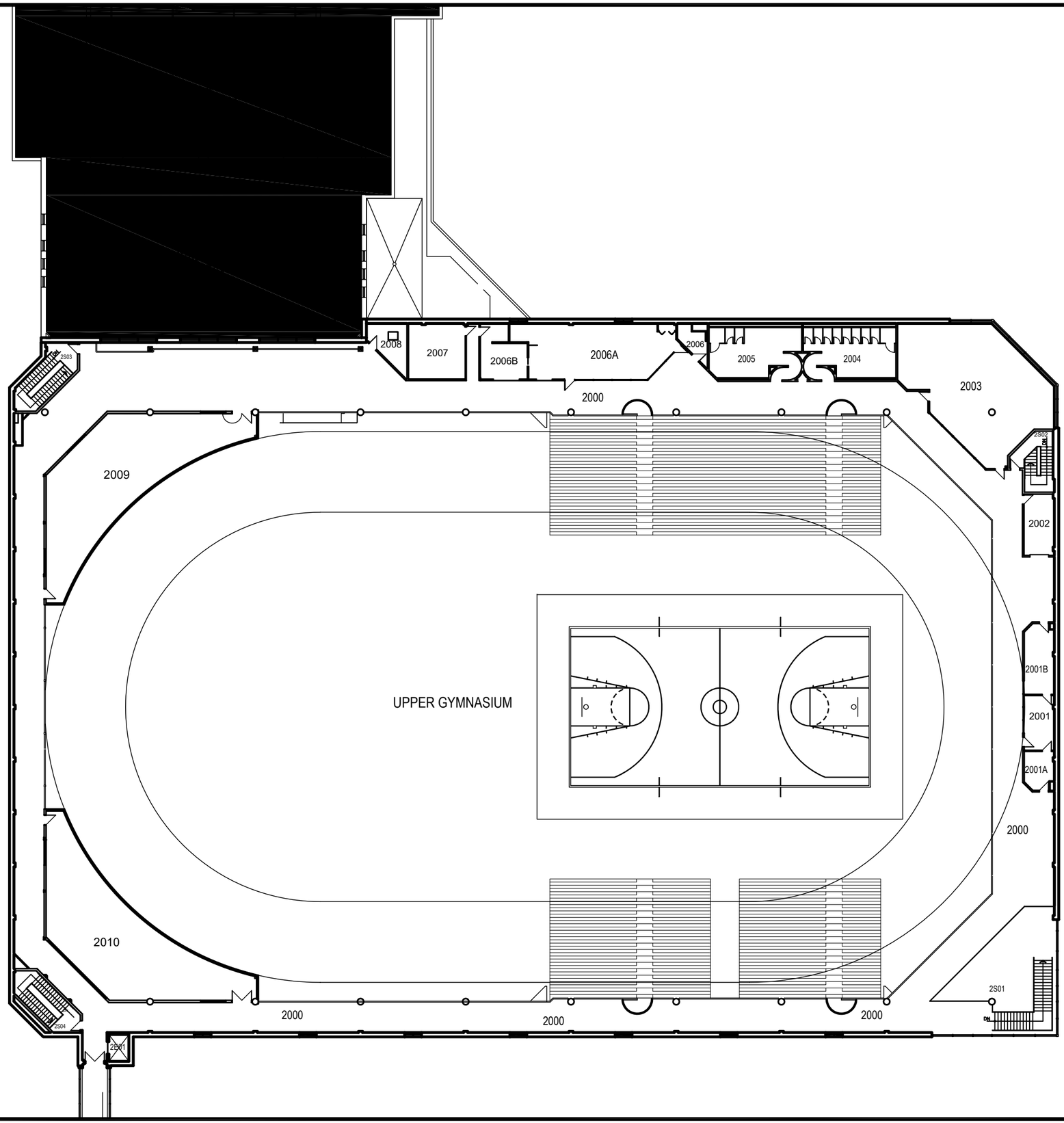
BASEMENT PLAN



FH

FIELD HOUSE
LEVEL 2

1 Metre



NEW RESIDENCE.
LEVEL 1

N

REVISION DATE	
MAR, 2013	BK

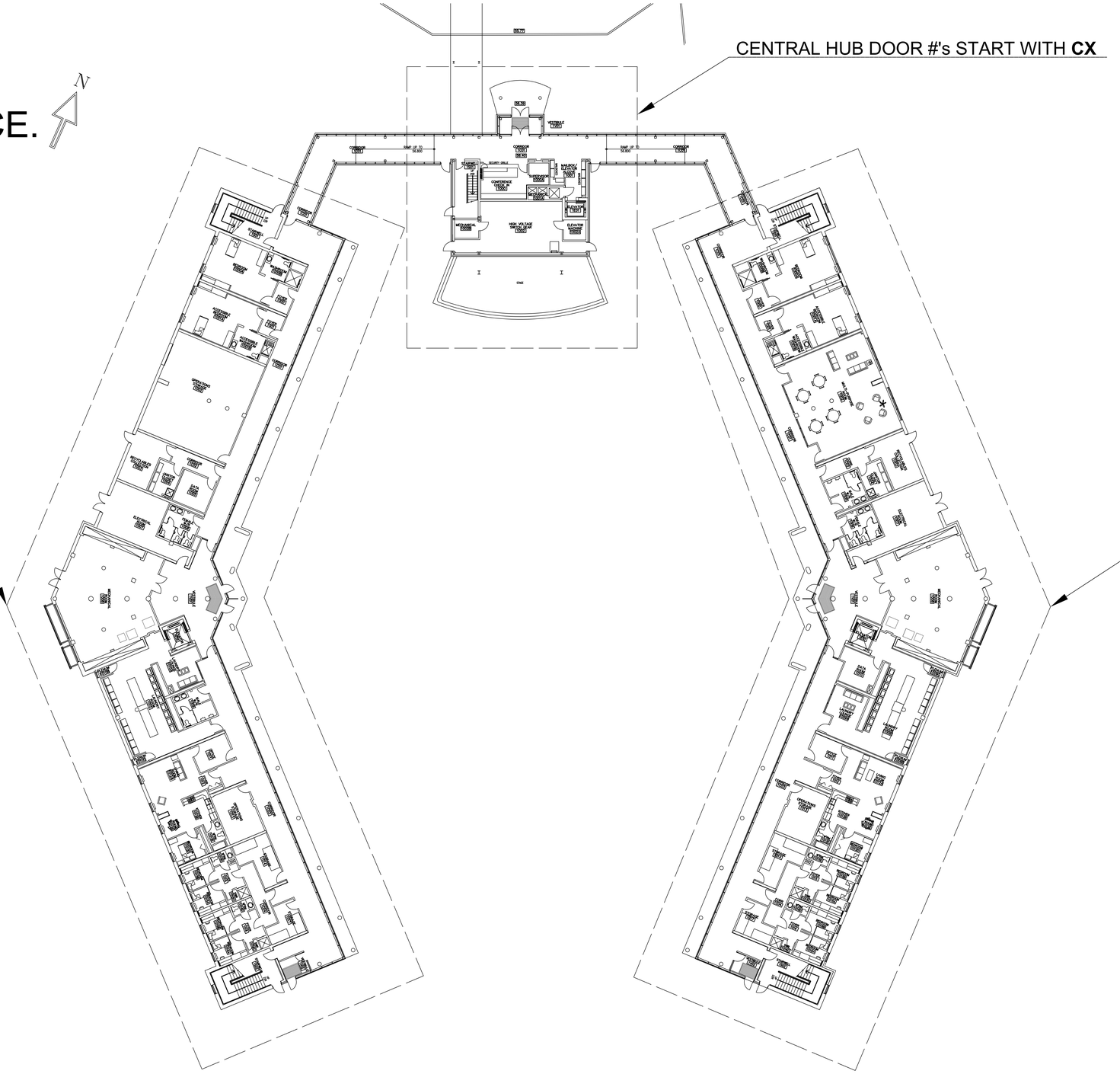
PREFIX C

1 Metre

CENTRAL HUB DOOR #'s START WITH **CX**

WEST WING DOOR #'s START WITH **WX**

EAST WING DOOR #'s START WITH **EX**



NEW RESIDENCE.
LEVEL 2

N

REVISION DATE	
MAR, 2013	BK

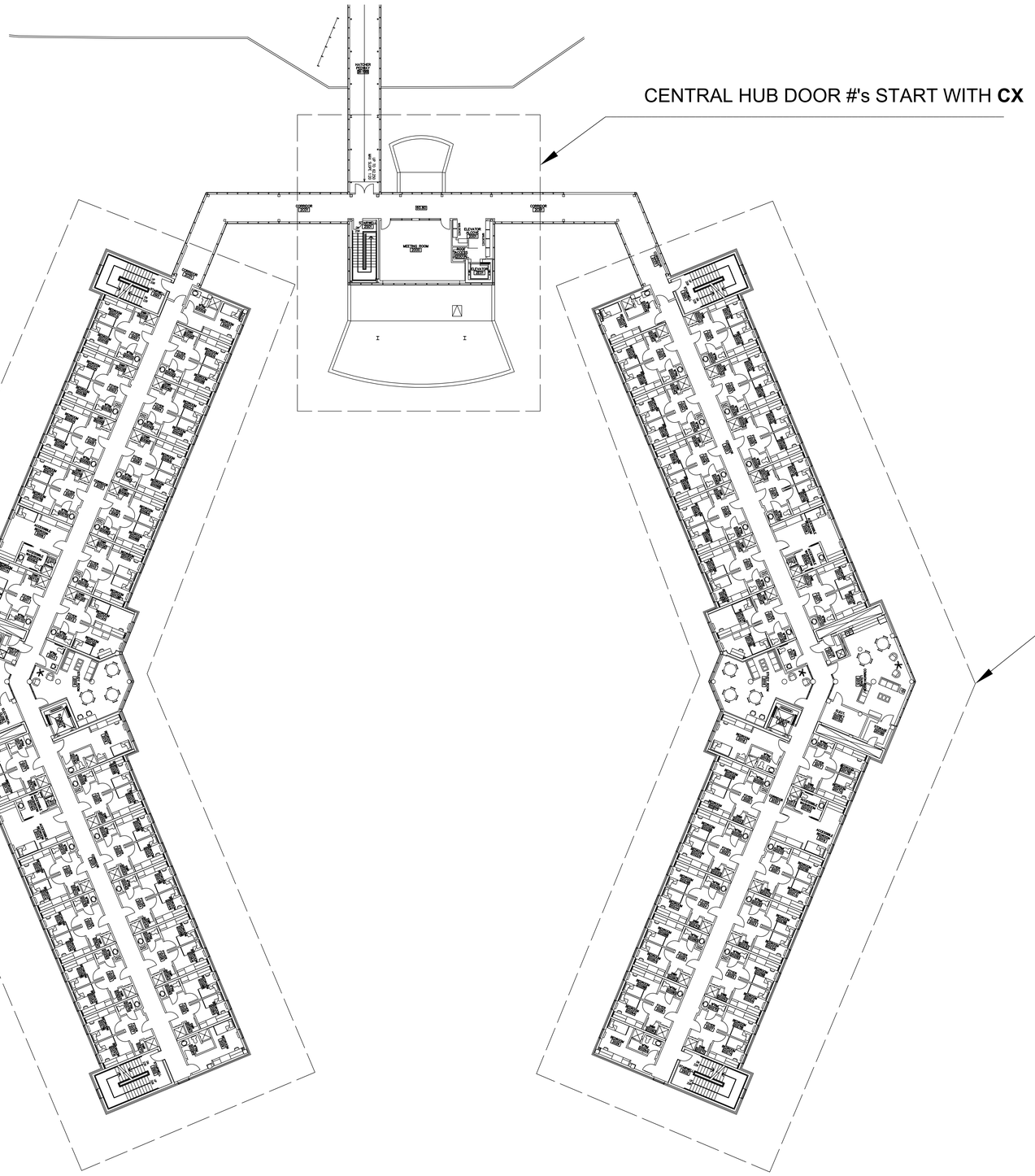
PREFIX C

1 Metre

CENTRAL HUB DOOR #'s START WITH **CX**

WEST WING DOOR #'s START WITH **WX**

EAST WING DOOR #'s START WITH **EX**

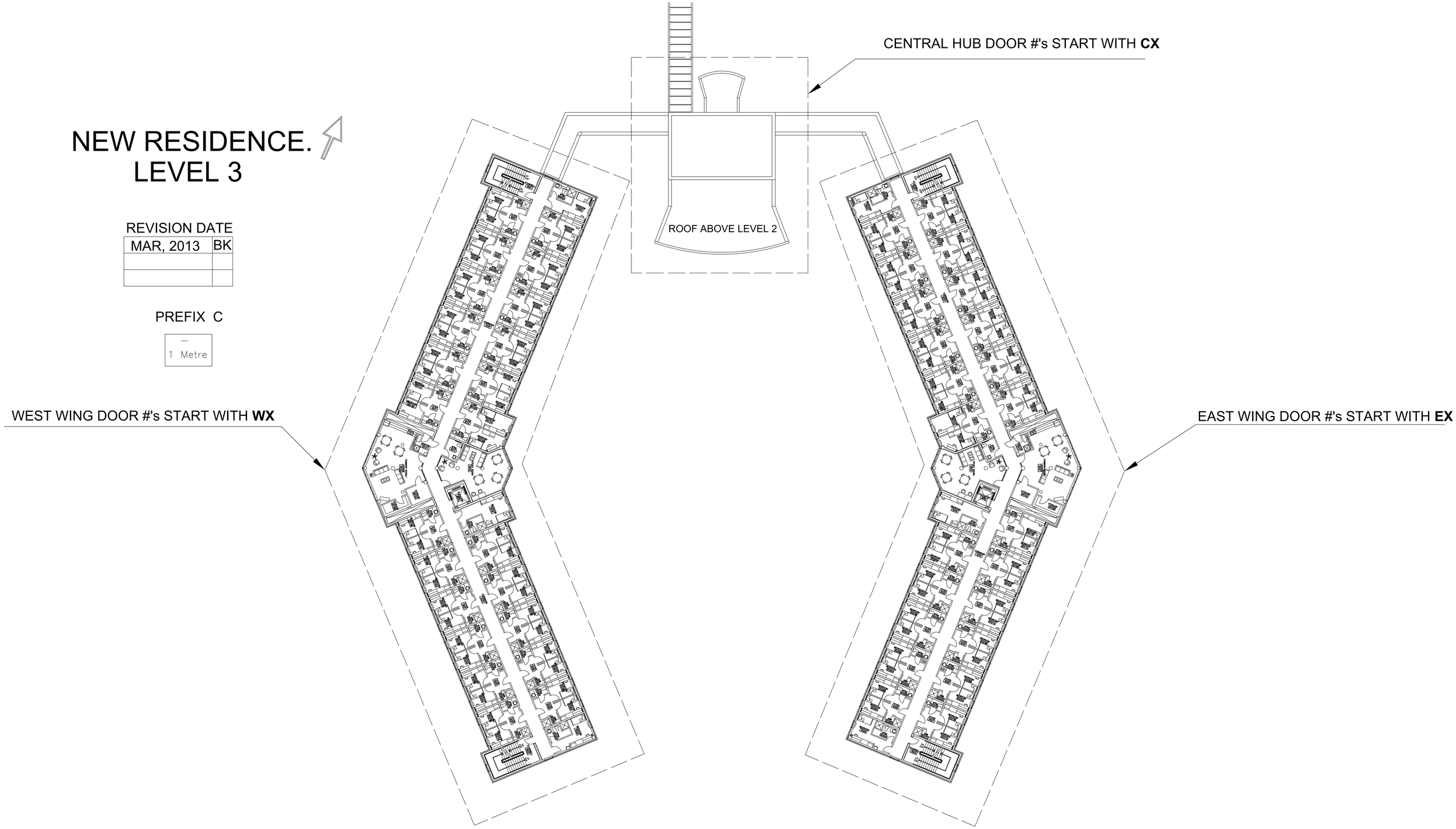


NEW RESIDENCE.
LEVEL 3

REVISION DATE	
MAR, 2013	BK

PREFIX C

1 Metre

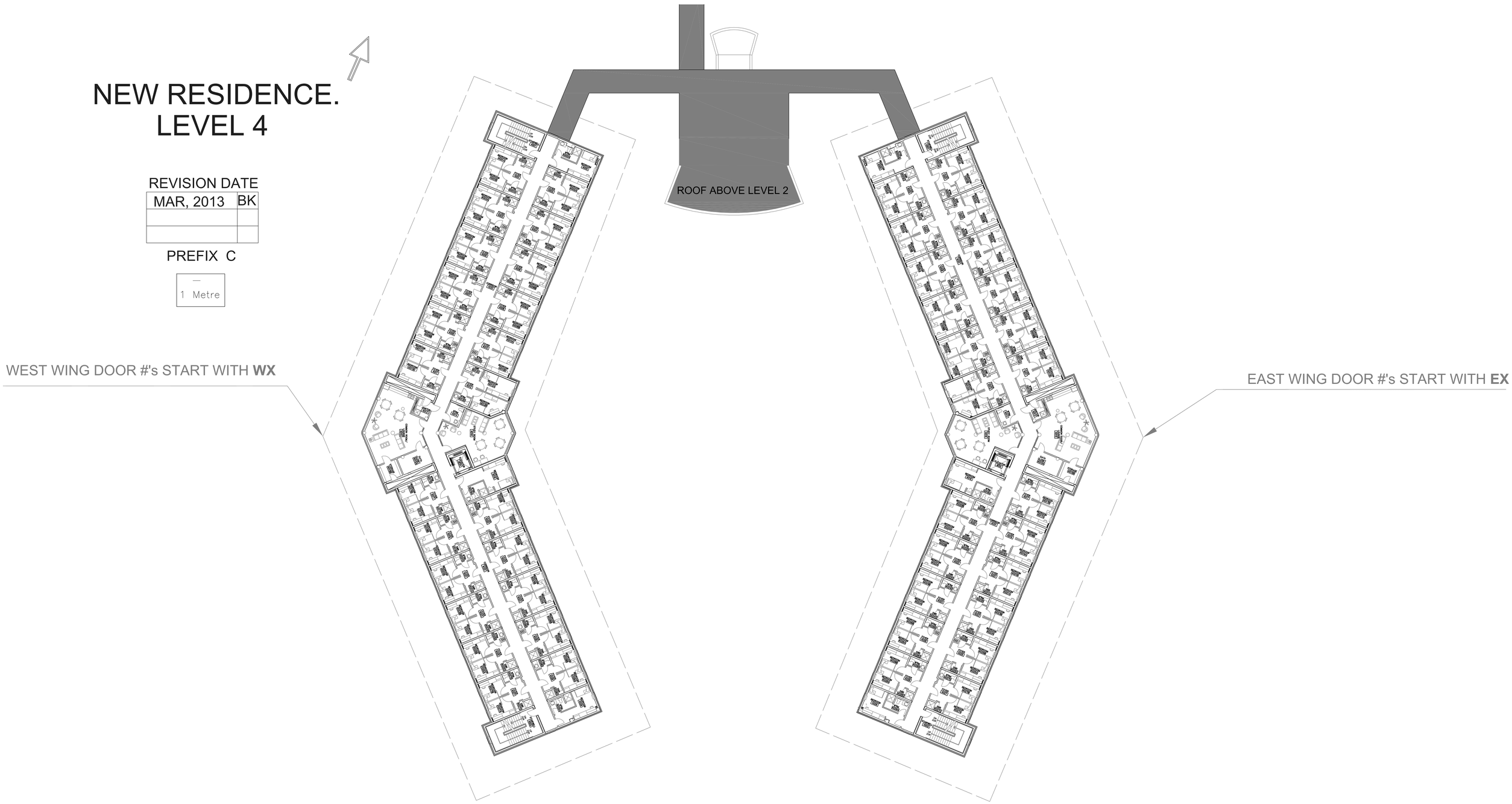


NEW RESIDENCE.
LEVEL 4

REVISION DATE	
MAR, 2013	BK

PREFIX C

1 Metre

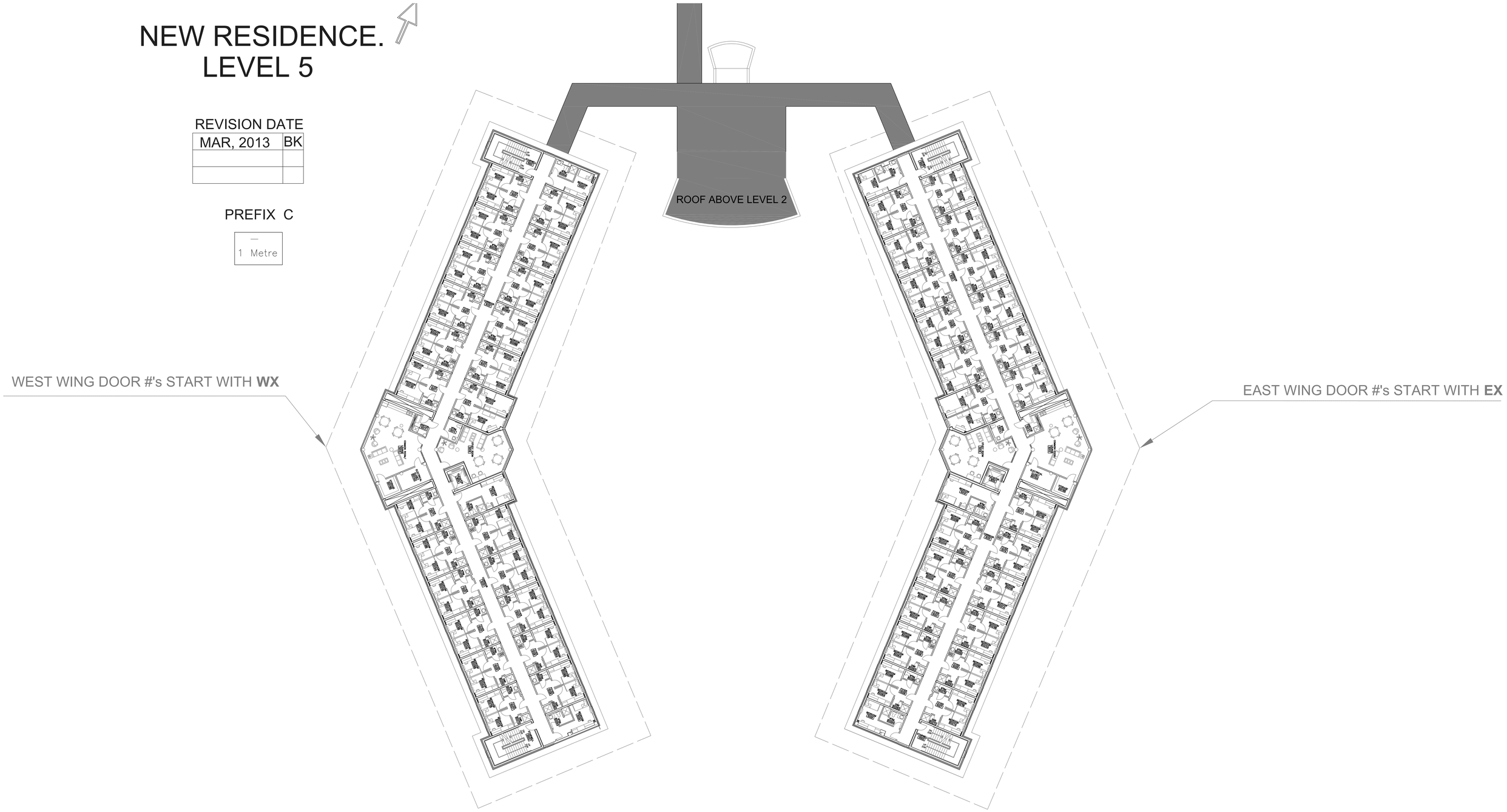


NEW RESIDENCE.
LEVEL 5

REVISION DATE	
MAR, 2013	BK

PREFIX C

1 Metre

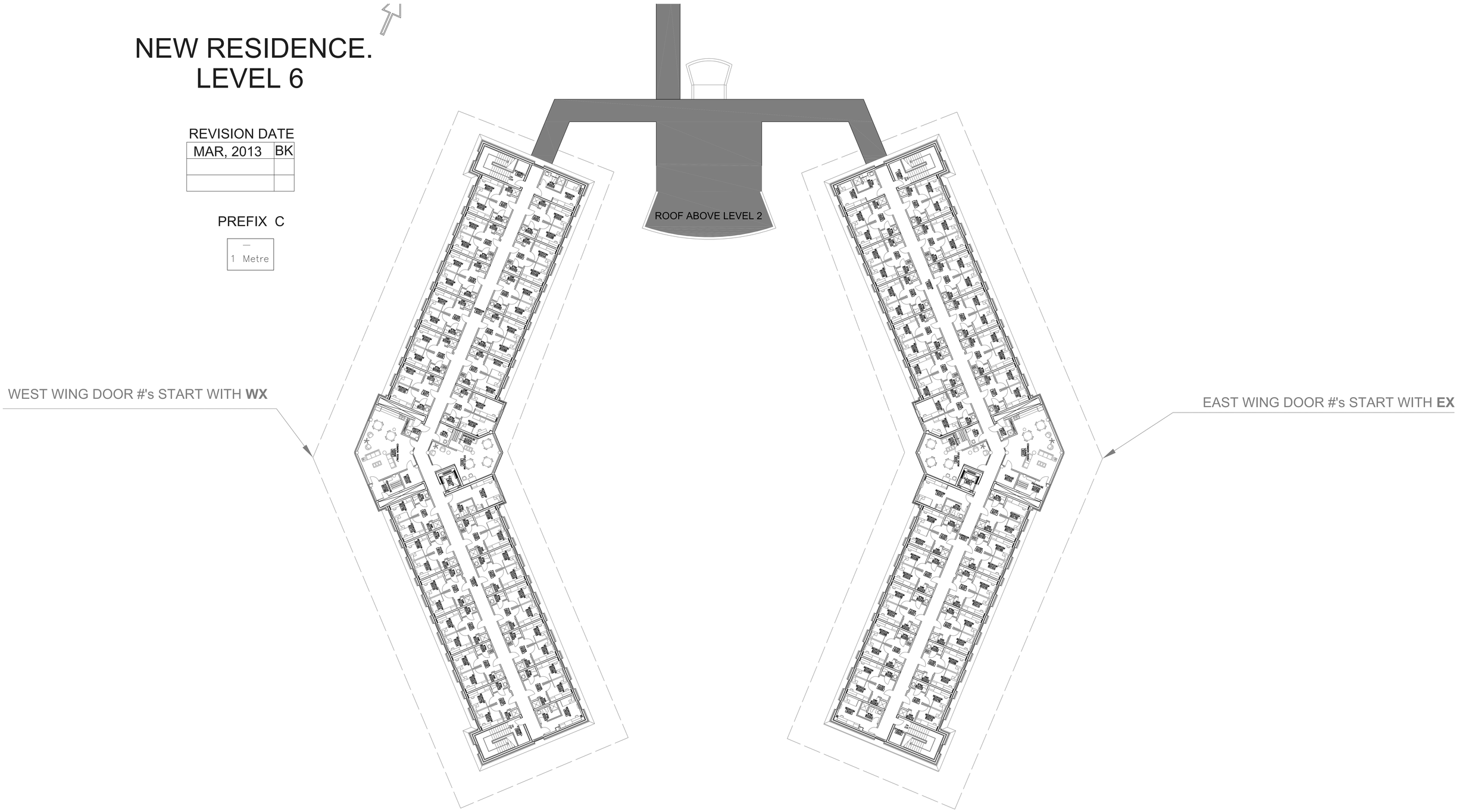


NEW RESIDENCE.
LEVEL 6

REVISION DATE	
MAR, 2013	BK

PREFIX C

1 Metre



NEW RESIDENCE.
PENTHOUSE

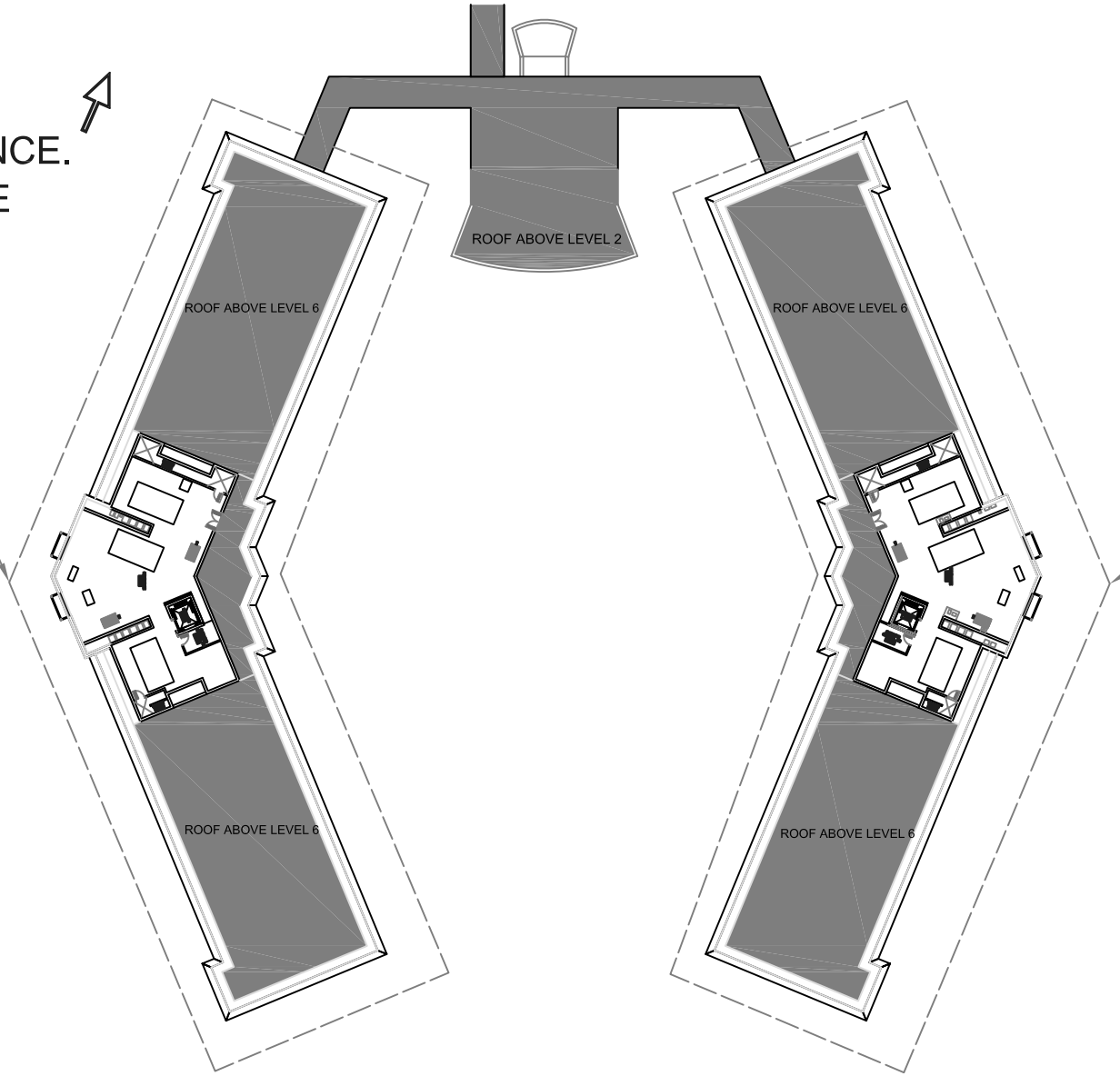
REVISION DATE	
MAR, 2013	BK

PREFIX C

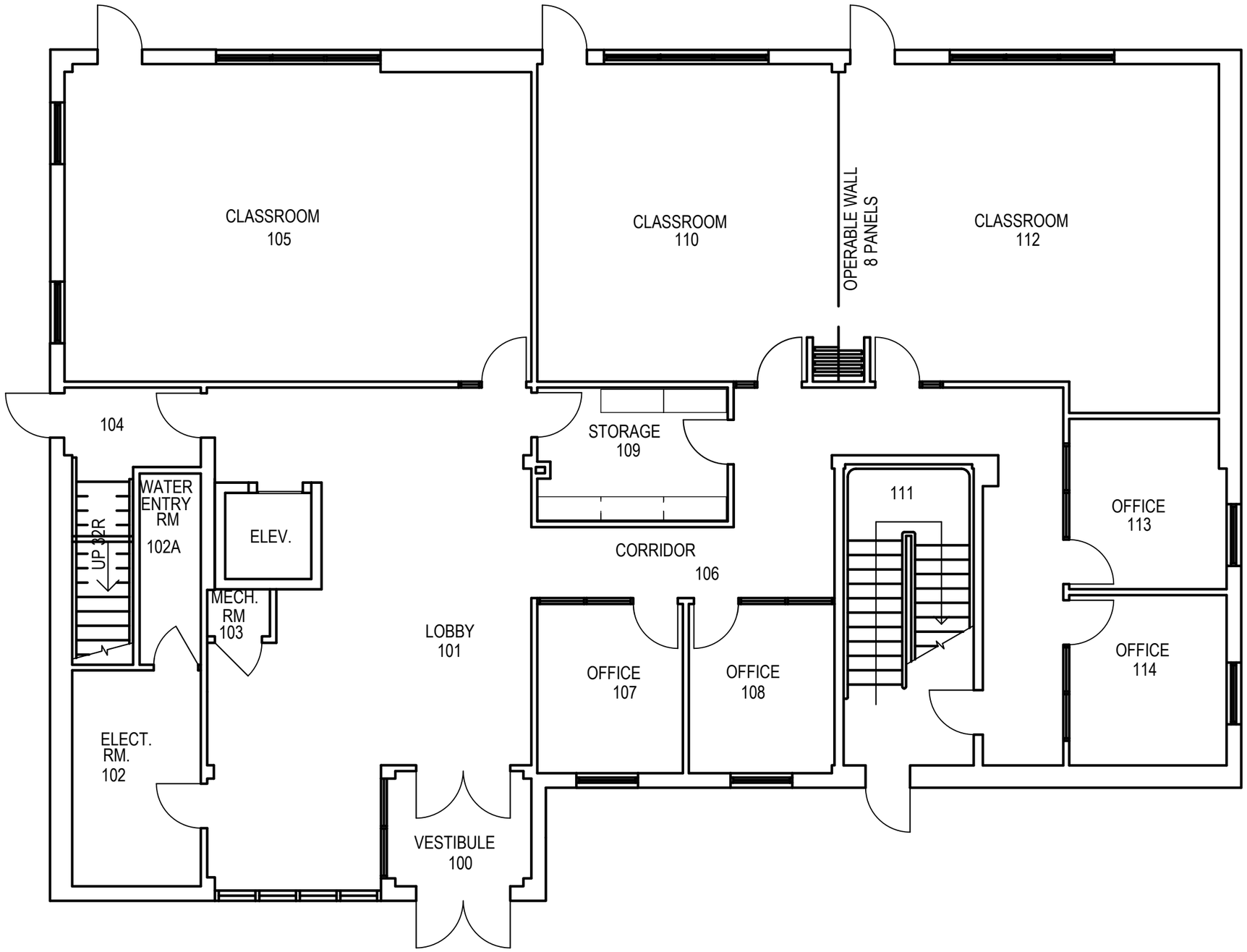
1 Metre

WEST WING DOOR #'s START WITH **WX**

EAST WING DOOR #'s START WITH **EX**



MARINE INSTITUTE
EMERGENCY TRAINING FACILITY - LEVEL ONE



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LEVEL TWO