

DOCKETED

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Project Title:	Corby Battery Energy Storage System Project
TN #:	268369
Document Title:	Project Description Update #2, Part 1, Appendix 2-D
Description:	Project Substation Design Drawings
Filer:	Doug Urry
Organization:	Tetra Tech
Submitter Role:	Applicant Consultant
Submission Date:	1/30/2026 8:19:50 AM
Docketed Date:	1/30/2026

Project Description Update #2

Appendix 2-D, Substation Design Drawings

Corby Battery Energy Storage System Project

January 2026



Prepared for



700 Universe Boulevard
Juno Beach, FL 33408

Prepared by

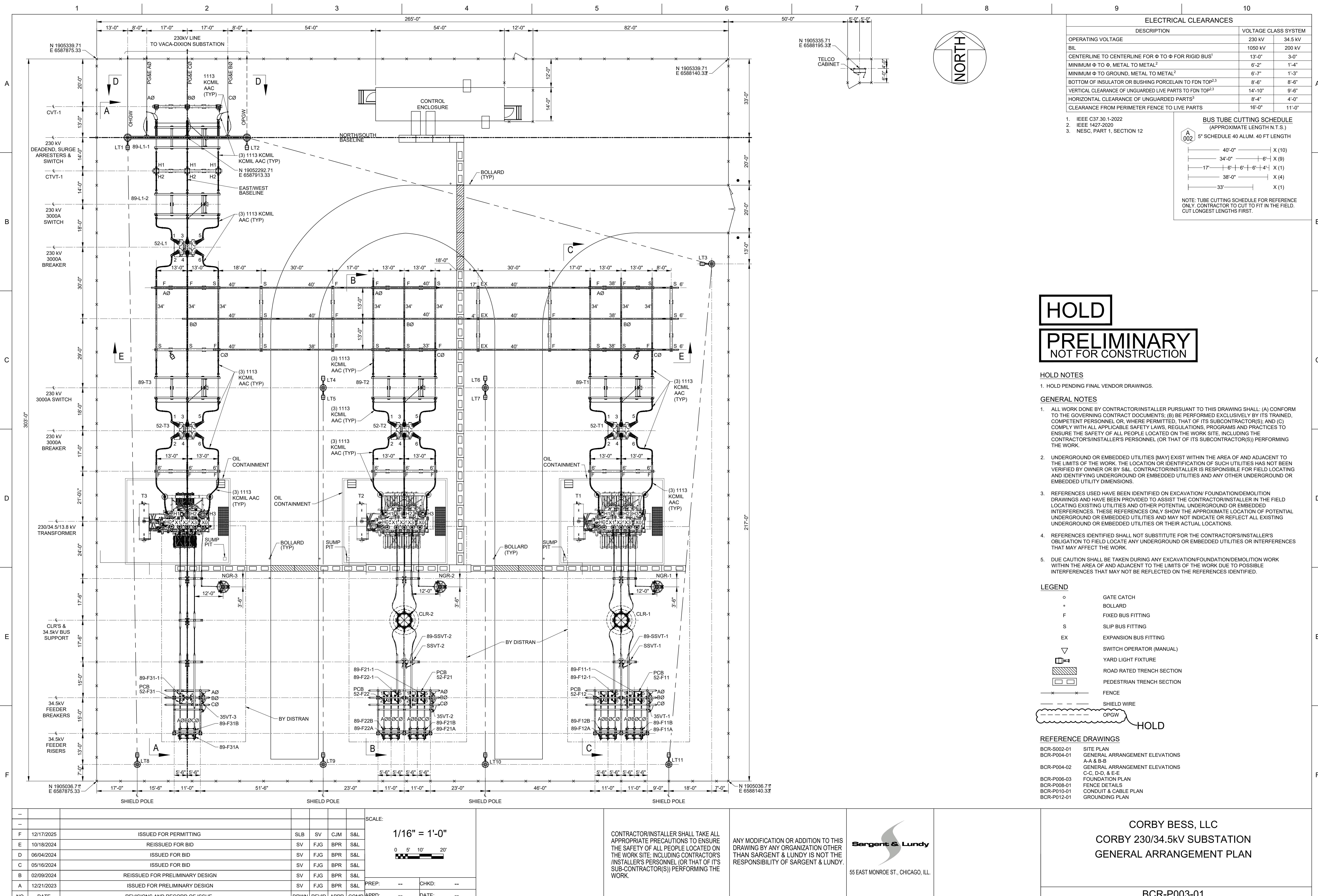


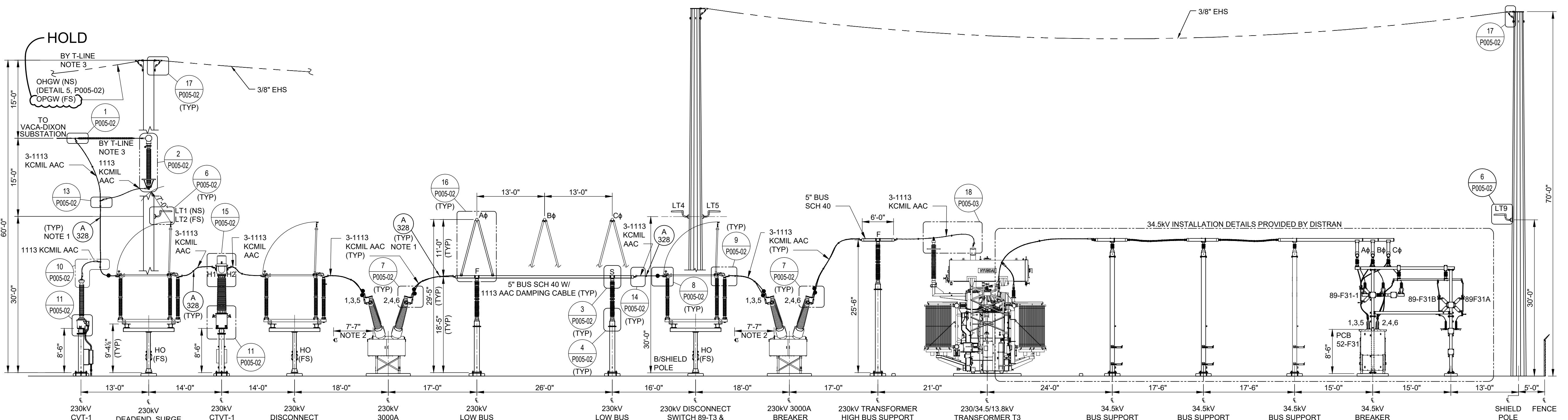
17885 Von Karman Avenue
Suite 500
Irvine, CA 92614

APPENDIX 2-D: SUBSTATION DESIGN DRAWINGS

Appendix 2-D: Substation Design Drawings

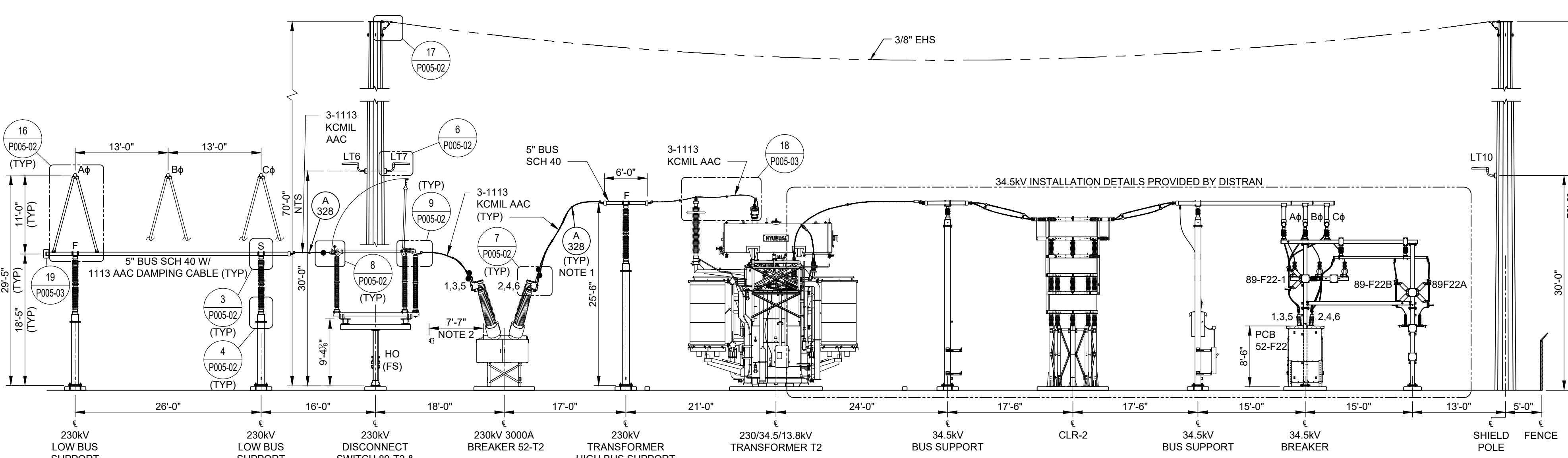
- Substation Layout BCR-P003-01
- Substation Elevation BCR-P004-01
- Substation Elevation BCR-P004-02
- Single Line Diagram BCR-S001-01
- Substation Grounding Plan BCR-P012-01
- Substation Grounding Detail BCR-P013-02
- Substation Grounding Detail BCR-P013-03
- Substation Lighting Plan BCR-P010-04





SECTION A-A

(BCR-P003-01)



SECTION B-B
(BCR-P003-01)

HOLD

PRELIMINARY
NOT FOR CONSTRUCTION

HOLD NOTES

HOLD NOTES

HOLD NOTES

1. HOLD PENDING FINAL VENDOR DRAWINGS.

GENERAL NOTES

1. CONTRACTOR/INSTALLER SHALL TAKE ALL APPROPRIATE PRECAUTIONS TO ENSURE THE SAFETY OF ALL PEOPLE LOCATED ON THE WORK SITE, INCLUDING CONTRACTOR'S/INSTALLER'S PERSONNEL (OR THAT OF ITS SUBCONTRACTOR(S)) PERFORMING THE WORK.

NOTES

1. CABLE SPACERS SHALL BE INSTALLED AT 8 TO 12 FT SPACING OR AS REQUIRED.
2. MINIMUM CLEARANCE FOR INTERRUPTER REMOVAL.
3. OHGW/OPGW CABLE, JUMPERS, AND CONNECTIONS SHALL BE PROVIDED AND

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<u>LEGEND</u>	
F	FIXED BUS FITTING
S	SLIP BUS FITTING
EX	EXPANSION BUS FITTING
HO	HAND OPERATOR
— — — —	SHIELD WIRE
	MATERIAL IN BOM, DWG BCR-P005-01
	DETAIL NUMBER

REFERENCE DRAWINGS	
BCR-P003-01	GENERAL ARRANGEMENT PLAN
BCR-P004-02	GENERAL ARRANGEMENT ELEVATIONS C-C, D-D, & E-E
BCR-P005-01	BILL OF MATERIAL
BCR-P005-02	GENERAL ARRANGEMENT BUS DETAILS 1-17
BCR-P005-03	GENERAL ARRANGEMENT BUS DETAILS 18-20

CONTRACTOR/INSTALLER SHALL TAKE ALL APPROPRIATE PRECAUTIONS TO ENSURE THE SAFETY OF ALL PEOPLE LOCATED ON THE WORK SITE; INCLUDING CONTRACTOR'S INSTALLER'S PERSONNEL (OR THAT OF IT'S SUB-CONTRACTOR(S)) PERFORMING THE WORK.

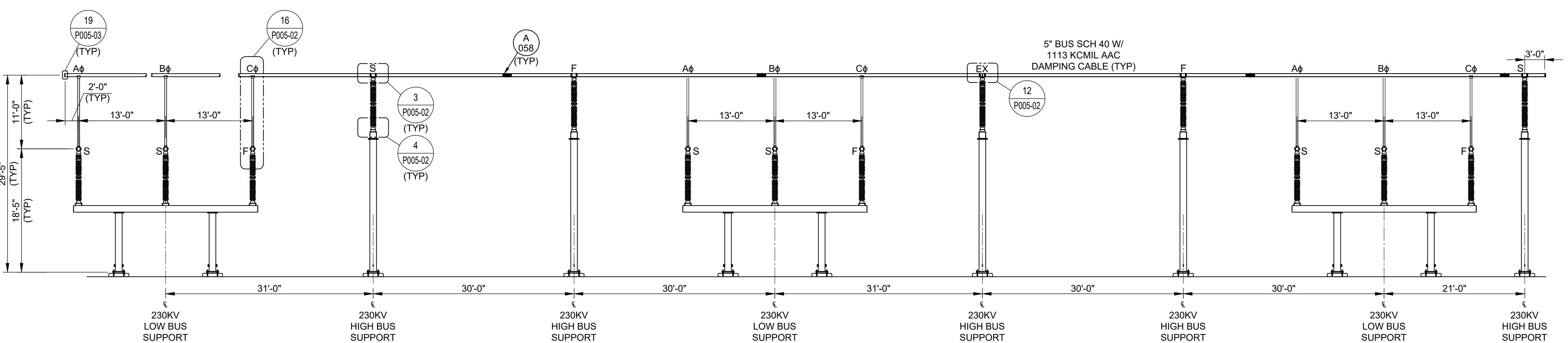
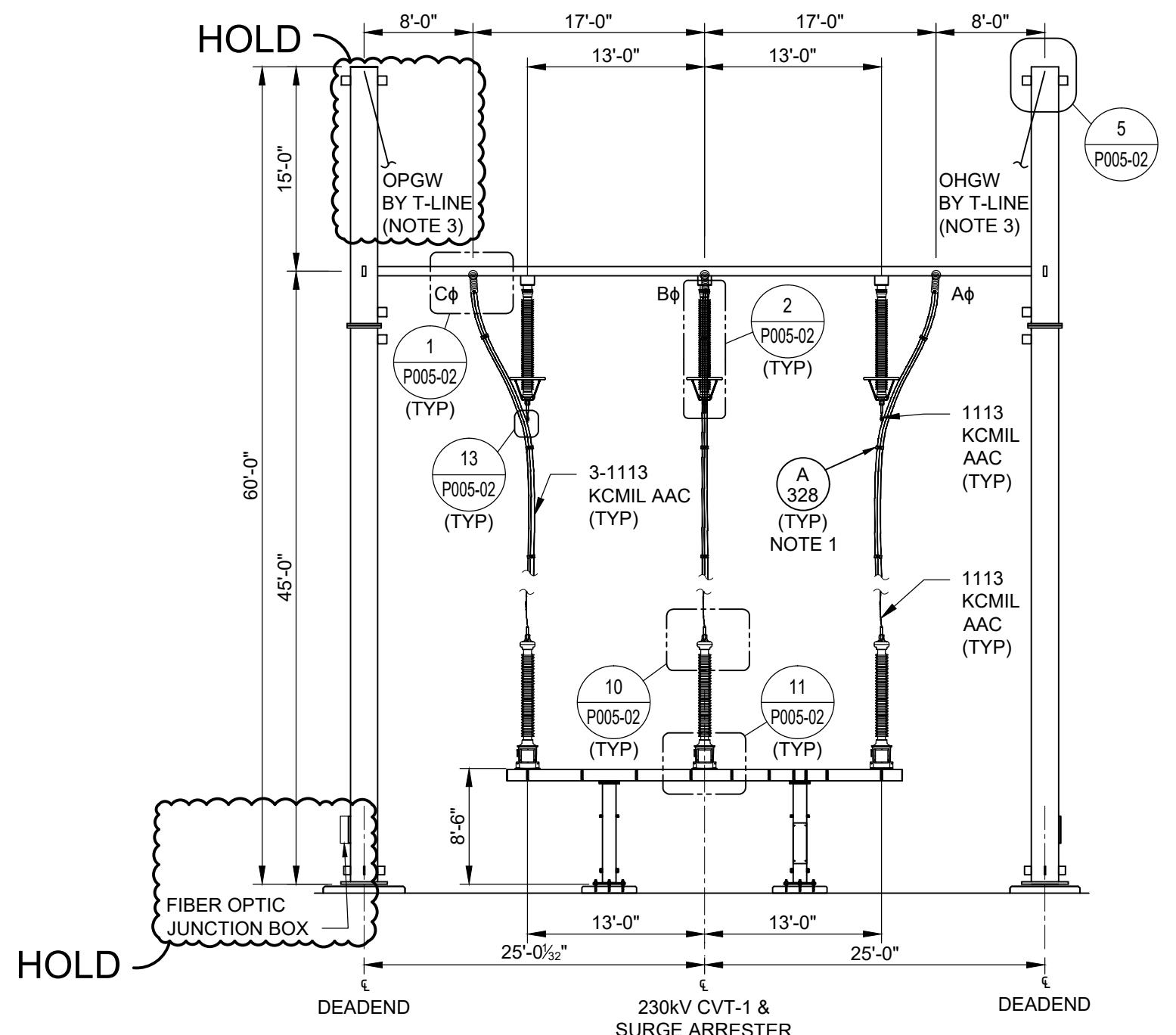
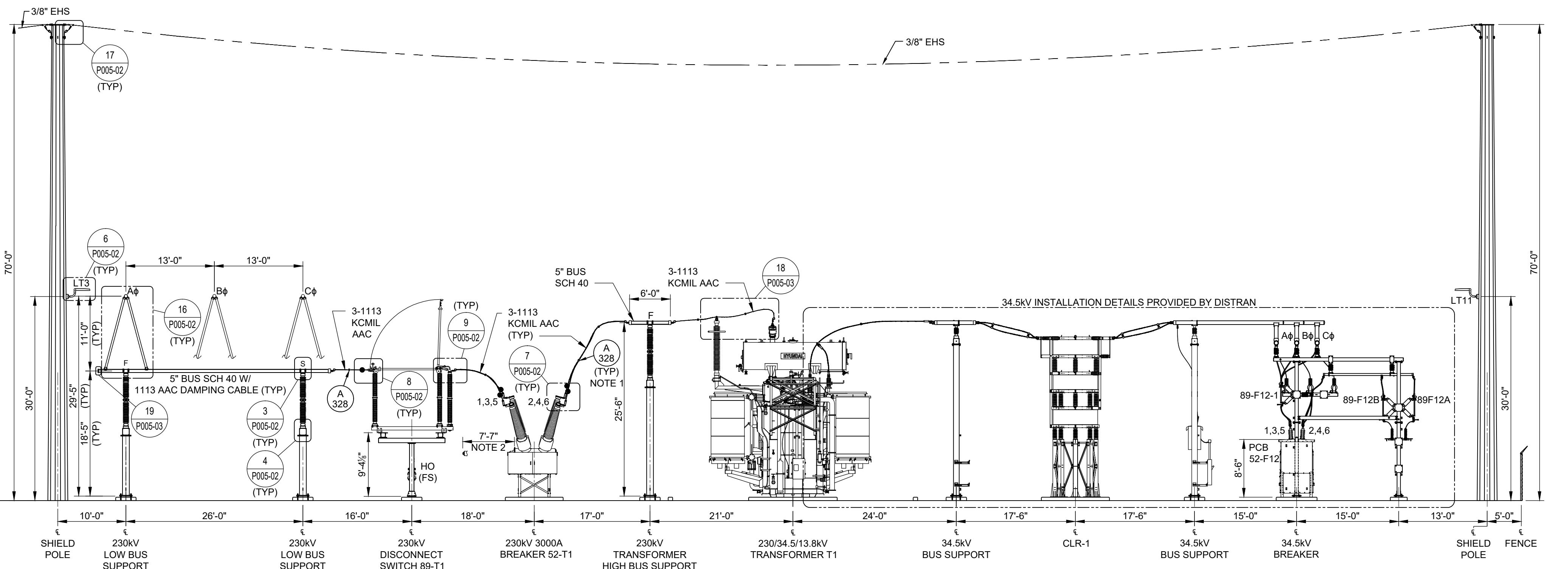
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5 EAST MONROE ST., CHICAGO, ILL.

CORBY BESS, LLC
CORBY 230/34.5kV SUBSTATION
GENERAL ARRANGEMENT ELEVATIONS
A-A & B-B

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C	12/17/2025	ISSUED FOR PERMITTING	SLB	SV	CJM
B	10/18/2024	REISSUED FOR BID	SV	FJG	BPI
A	05/16/2024	ISSUED FOR BID	SV	FJG	BPI
NO	DATE	REVISIONS AND RECORD OF ISSUE	DRWN	REV'D	APR'D



OLD

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RELIMINARY FOR CONSTRUCTION

OLD NOTES

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SEE DRAWING BCR-P003-01 FOR ADDITIONAL NOTES.

OTES

CABLE SPACERS SHALL BE INSTALLED AT 8 TO 12 FT SPACING OR AS REQUIRED.
MINIMUM CLEARANCE FOR INTERRUPTER REMOVAL.
OHGW/OPGW CABLE, JUMPERS, AND CONNECTIONS SHALL BE PROVIDED AND
INSTALLED BY T-LINE CONTRACTOR.

EGFND

F	FIXED BUS FITTING
S	SLIP BUS FITTING
EX	EXPANSION BUS FITTING
HO	HAND OPERATOR
— — — —	SHIELD WIRE
(-)	MATERIAL IN BOM, DWG BCR-P005-01
(-)	DETAIL NUMBER
(-)	SHEET NUMBER

REFERENCE DRAWINGS

<u>REFERENCE DRAWINGS</u>	
CR-P003-01	GENERAL ARRANGEMENT PLAN
CR-P004-01	GENERAL ARRANGEMENT ELEVATIONS A-A & B-B
CR-P005-01	BILL OF MATERIAL
CR-P005-02	GENERAL ARRANGEMENT BUS DETAILS 1-17
CR-P005-03	GENERAL ARRANGEMENT BUS DETAILS 18-26

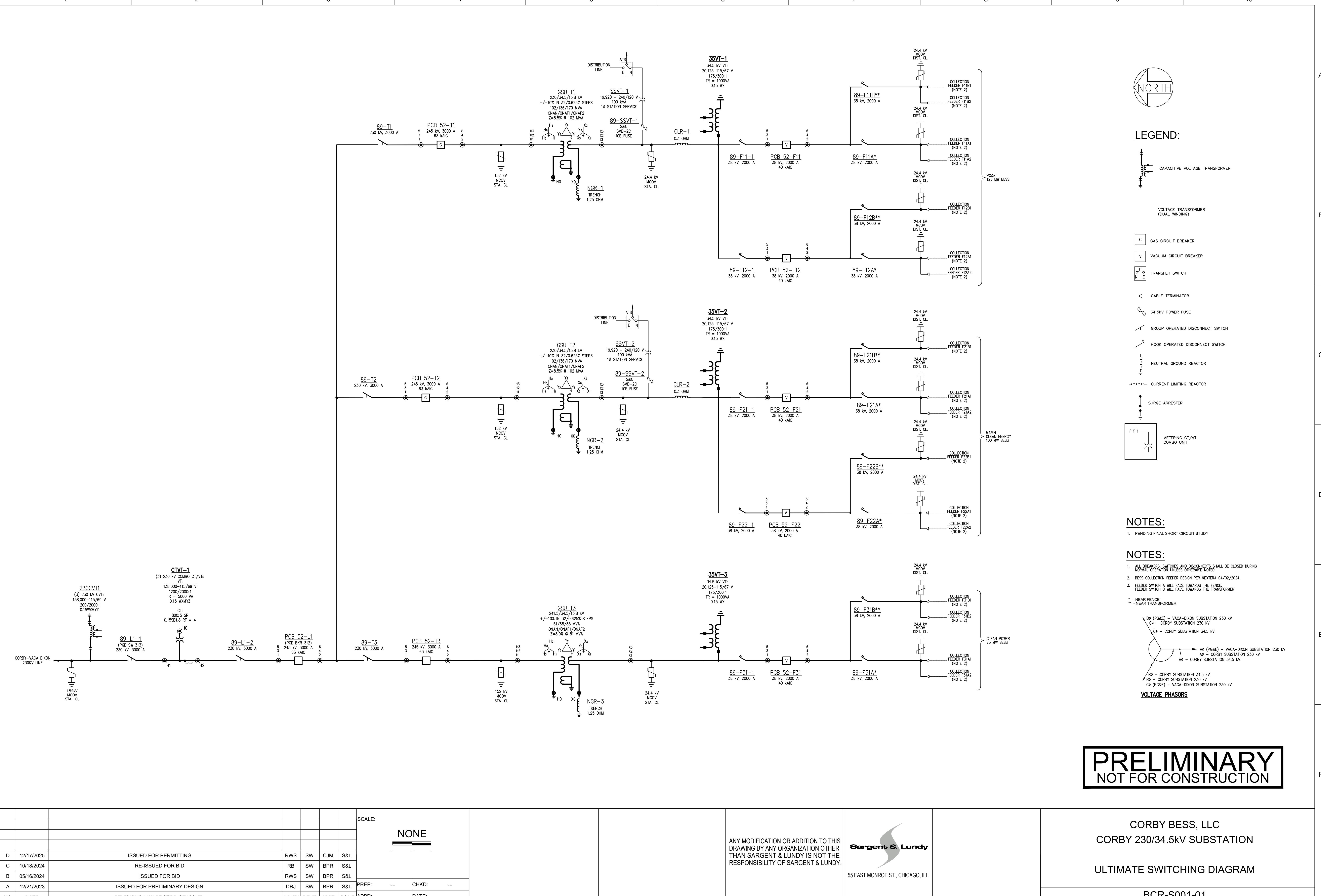
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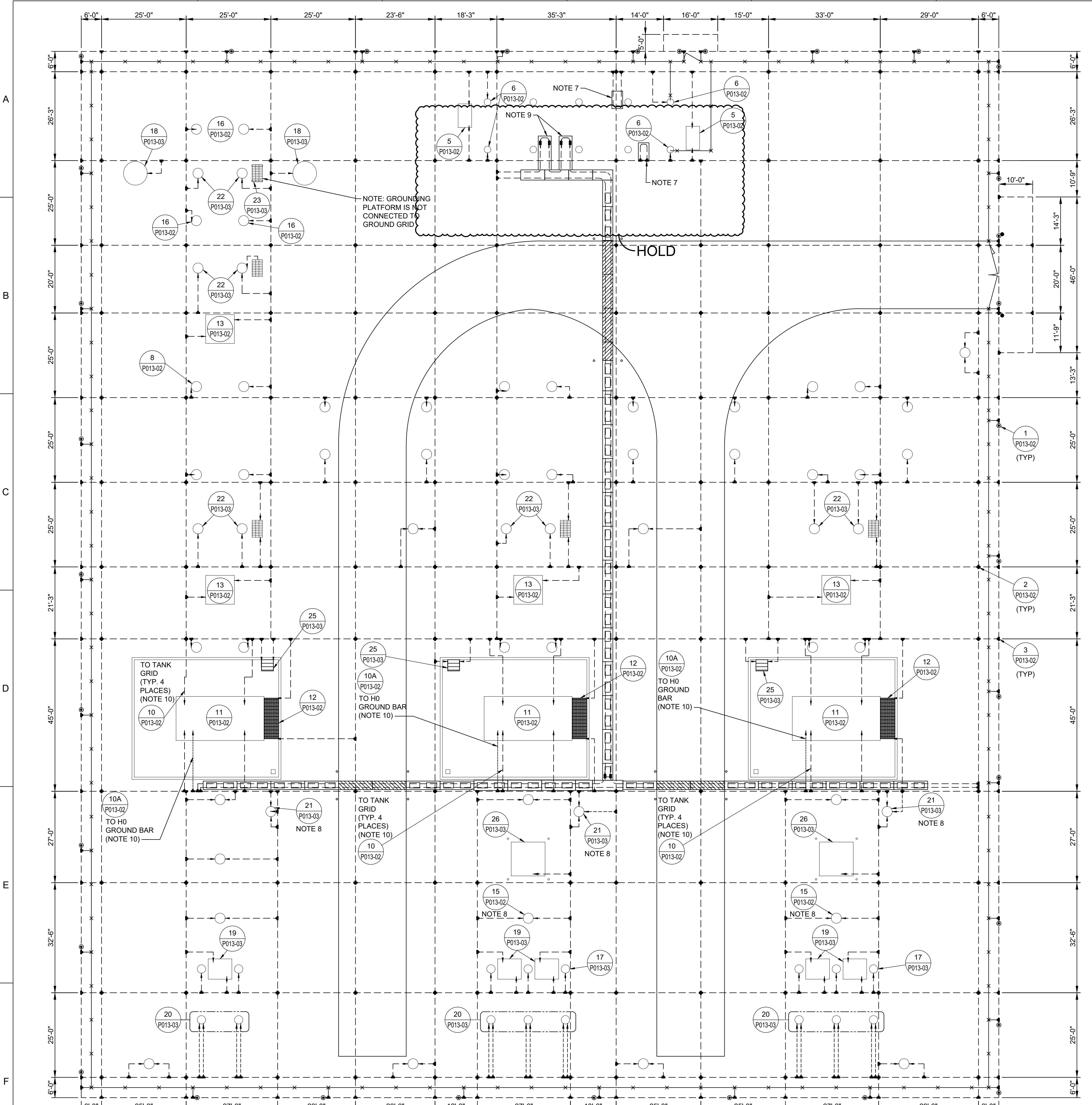
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AST MONROE ST., CHICAGO, ILL

CORBY BESS, LLC
CORBY 230/34.5kV SUBSTATION
GENERAL ARRANGEMENT ELEVATIONS
C-C, D-D, & E-E

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C	12/17/2025	ISSUED FOR PERMITTING		SLB	SV	CJM
B	10/18/2024	REISSUED FOR BID		SV	FJG	BPP
A	05/16/2024	ISSUED FOR BID		SV	FJG	BPP
NO.	DATE	REVISIONS AND RECORDS OF ISSUE		REVIEW	REVIEW	APPROVAL





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GROUND NOTES:

1. HOLD PENDING FINAL VENDOR DRAWINGS.
2. HOLD PENDING FINAL GROUNDING CALC.

GROUND GRID CRITERIA

GROUNDING SYSTEM DESIGN IS BASED ON THE FOLLOWING

PARAMETERS:

- 30.00 KA, 34.5 KV SINGLE PHASE TO GROUND FAULT
- EARTH CURRENT SPLIT FACTOR OF 0.75
- 0.5 SECOND MAXIMUM SHOCK DURATION
- MAINTAINED 4 INCHES OF 3000 OHM-METER SURFACING MATERIAL

THICKNESS	LAYER #	RESISTIVITY	FEET
	1	28.20 OHM-METERS	0.37 FEET
	2	153.76 OHM-METERS	0.83 FEET
	3	33.62 OHM-METERS	8.78 FEET
	4	10.44 OHM-METERS	95.73 FEET
	5	20.29 OHM-METERS	121.56 FEET
	6	8.95 OHM-METERS	INFINITE

UPON COMPLETION OF STATION GROUNDING SYSTEM, THE RESISTANCE OF MAT TO EARTH SHALL BE DETERMINED BY A THREE-ELECTRODE TEST METHOD. IF THE RESISTANCE TO REMOTE EARTH IS GREATER THAN 0.07 OHMS, ADDITIONAL GROUNDING FACILITIES MAY BE REQUIRED.

GENERAL NOTES

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2. SEE DRAWING BCR-P003-01 FOR ADDITIONAL NOTES.

NOTES

1. CONTROL ENCLOSURE GROUND TO BE CONNECTED TO GROUND GRID THROUGH PULL BOX GROUND. DETAIL 6 (P013-02) SHOWS EXISTING CONNECTION TO GRID
2. SEE FENCE GROUNDING DETAILS FOR GROUNDING GATES, POSTS, WIRE, FABRIC, ETC.
3. BURIAL DEPTH OF GROUND GRID SHALL BE 18" BELOW SUBGRADE.
4. EVERY FOURTH FENCE LINE POST TO BE CONNECTED TO GROUND GRID PER DWG P013-04. DISTANCE BETWEEN FENCE POST GROUND CONNECTIONS SHALL NOT EXCEED 40'-0".
5. ARRESTER GROUNDING CONNECTIONS SHALL BE LOOPED FORMING TWO PATHS TO THE GROUND GRID.
6. FROM H0 GROUND BAR, CONNECT 350 KCMIL CU 600V INSULATED CABLE (ITEM G034) TO GROUND GRID WITH 4/0 TO 350 TEE (ITEM G036).
7. CONTRACTOR SHALL CONNECT PULL BOX STATIONARY COVER TO GROUND GRID WITH A #2 CU CABLE. THE REMOVABLE COVER CAN BE CONNECTED TO THE STATIONARY COVER OR THE GROUND GRID WITH A #2 CU CABLE.
8. COIL 30 FEET OF 350 KCMIL CU 600V INSULATED CABLE AT NGR & SSVT STRUCTURE FOUNDATION, CONNECT TO GROUND GRID WITH 4/0 TO 350 TEE (ITEM G036).
9. CONTRACTOR TO CONNECT LID AT CONDUIT PENETRATION TO GROUND GRID WITH A #2 CU CABLE.
10. REFER TO DRAWING BCR-P011-02 FOR TRANSFORMER CONDUIT DETAILS.

LEGEND

- #4/0 SD COPPER GROUND CONDUCTOR
- 350 KCMIL CU 600V INSULATED GROUND CABLE
- GROUND CONDUCTOR STUB-UP PIGTAIL
- GROUND CONDUCTOR BOND CROSS CONNECTION, CADWELD OR EQUAL
- GROUND CONDUCTOR BOND TEE CONNECTION, CADWELD OR EQUAL
- 5/8" x 10' COPPER CLAD STEEL GROUND ROD
- FENCE GROUND (CONNECT CONDUCTOR TO INSIDE OF FENCE & GATE POST AND MAKE SINGLE GROUND ROD CONNECTION).
- TRENCH GROUND TO GRID, TYPE C COMPRESSION CONNECTOR (G017)
- SWITCH OPERATOR PLATFORM (5'x3')
- DETAIL NUMBER
SHEET NUMBER
IN WHICH DETAIL APPEARS

REFERENCE DRAWINGS

BCR-P003-01 GENERAL ARRANGEMENT PLAN
 BCR-P006-03 FOUNDATION PLAN
 BCR-P007-02 85 MVA TRANSFORMER FOUNDATION & OIL CONTAINMENT
 BCR-P007-03 170 MVA TRANSFORMER FOUNDATION & OIL CONTAINMENT
 BCR-P011-02 CONDUIT, CABLE & LIGHTING DETAILS
 1-1 GROUNDING DETAILS
 1-16 GROUNDING DETAILS
 BCR-P013-02 GROUNDING DETAILS
 BCR-P013-03 GROUNDING DETAILS
 17-26 FENCE GROUNDING DETAILS

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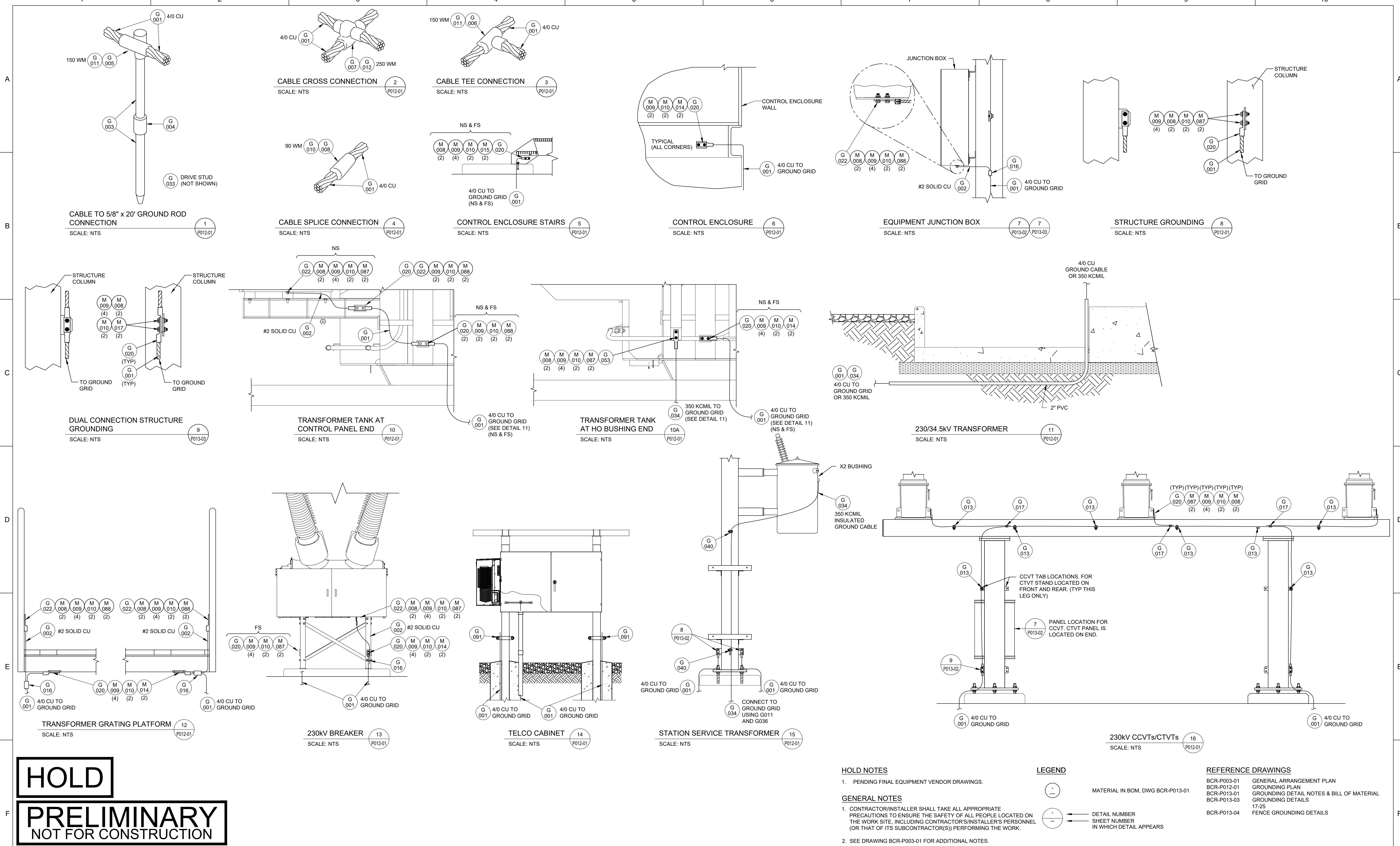


55 EAST MONROE ST, CHICAGO, IL

CORBY BESS, LLC
 CORBY 230/34.5kV SUBSTATION
 GROUNDING PLAN

BCR-P012-01

		SCALE:							
		1/16" = 1'-0"							
C	12/17/2025	ISSUED FOR PERMITTING	SLB	SV	CJM	S&L			
B	10/18/2024	RE-ISSUED FOR BID	SV	FJG	BPR	S&L	PREP: --	CHKD: --	
A	05/18/2024	ISSUED FOR BID	SV	FJG	BPR	S&L	APPD: --	DATE: --	
NO	DATE	REVISIONS AND RECORD OF ISSUE	DRWN	REV'D	APPR	COMP	APPD: --	DATE: --	



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NOT FOR CONSTRUCTION

		SCALE:				NONE			
--	--	SLB	SV	CJM	S&L				
C	12/17/2025	ISSUED FOR PERMITTING							
B	10/18/2024	RE-ISSUED FOR BID	SV	FJG	BPR	S&L			
A	05/16/2024	ISSUED FOR BID	SV	FJG	BPR	S&L	PREP: --	CHKD: --	
NO	DATE	REVISIONS AND RECORD OF ISSUE	DRWN	REV'D	APPR	COMP	APP'D: --	DATE: --	

SCALE:
NONE

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HOLD NOTES

- PENDING FINAL EQUIPMENT VENDOR DRAWINGS.

GENERAL NOTES

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- SEE DRAWING BCR-P003-01 FOR ADDITIONAL NOTES.

2. SEE DRAWING BCR-P003-01 FOR ADDITIONAL NOTES.

LEGEND

- MATERIAL IN BOM, DWG BCR-P013-01
- DETAIL NUMBER
- Sheet Number in which detail appears

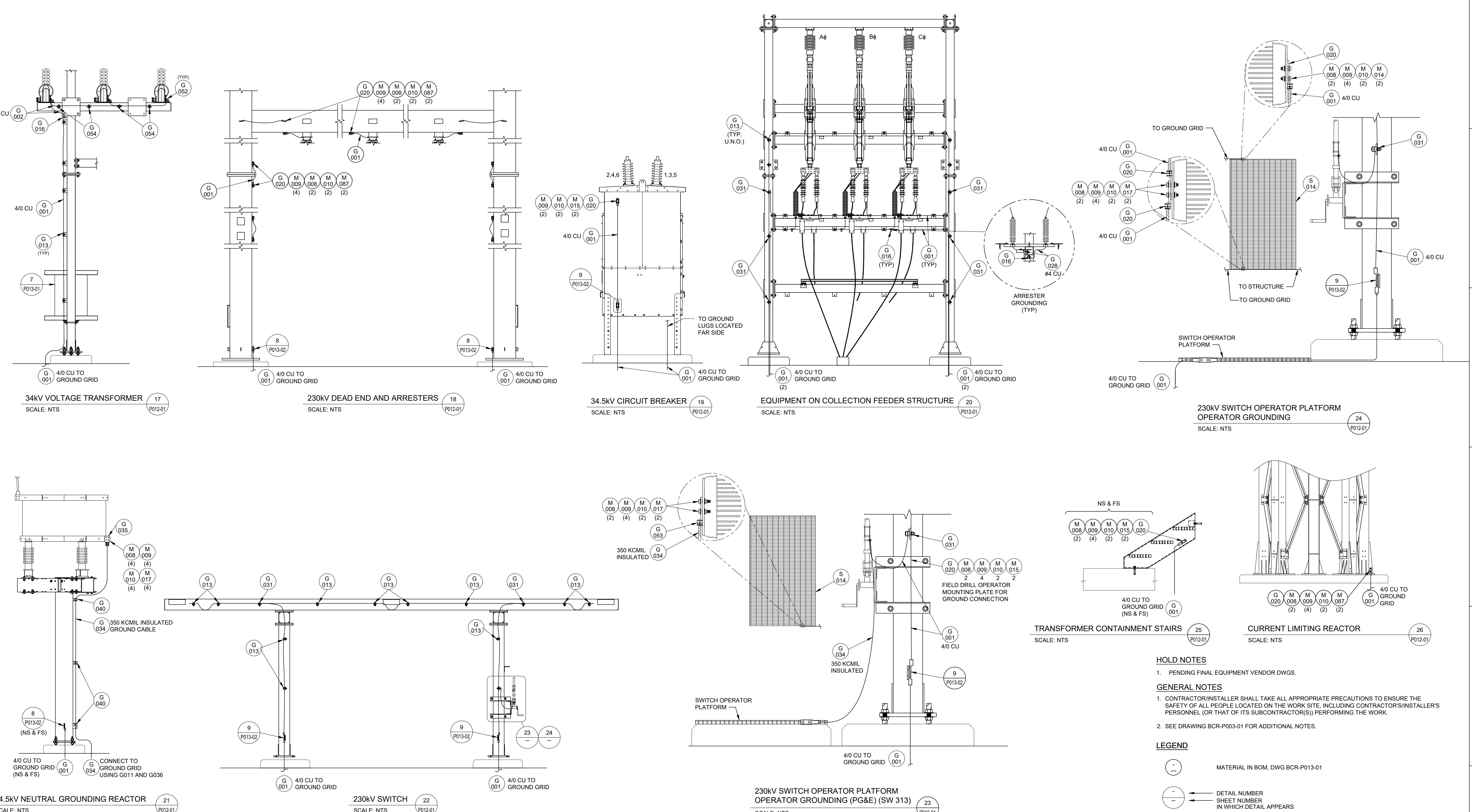
REFERENCE DRAWINGS

- BCR-P003-01 GENERAL ARRANGEMENT PLAN
- BCR-P012-01 GROUNDING PLAN
- BCR-P013-01 GROUNDING DETAIL NOTES & BILL OF MATERIAL
- BCR-P013-03 GROUNDING DETAILS
- 17-25 FENCE GROUNDING DETAILS
- BCR-P013-04

CORBY BESS, LLC
CORBY 230/34.5kV SUBSTATION
GROUNDING DETAILS

1-16

BCR-P013-02



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C	12/17/2025	ISSUED FOR PERMITTING		SLB	SV	CJM	S
B	10/18/2024	REISSUED FOR BID		SV	FJG	BPR	S
A	05/16/2024	ISSUED FOR BID		SV	FJG	BPR	S

SCALE:

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The logo consists of a large, light gray, stylized 'S' shape on the left, which is partially cut off on the right. To the right of the 'S', the words 'ent & Lundy' are written in a bold, black, sans-serif font. The 'S' and the text are positioned above a thin horizontal line.

CORBY BESS, LLC
CORBY 230/34.5kV SUBSTATION
GROUNDING DETAILS
17-25

17-25

CR-P013-03

DRAWINGS

TERIAL ARRANGEMENT PLAN

MATERIAL IN BOM, DWG BCR-P013-01

DETAIL NUMBER
SHEET NUMBER
IN WHICH DETAIL APPEARS

DRAWINGS

TERIAL ARRANGEMENT PLAN

GENERAL ARRANGEMENT PLAN
FUNDING PLAN
FUNDING DETAIL NOTES & BILL OF MATERIAL

UNDING DETAIL NOTES & BILL OF MATERIAL UNDING DETAILS

GE GROUNDING DETAILS

CE GROUNDING DETAILS

Digitized by srujanika@gmail.com

CORBY BESS, LLC

COPPER 230/34 EK V SURGE

CORBY 230/34.5kV SUBSTATION

GROUNDING DETAIL

17-25

