three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot

GENERAL NOTES

A. SEE SPECIFICATIONS FOR ALLOWED OUTAGE TIMES. OUTAGES SHALL BE COORDINATED AND APPROVED BY OWNER.

B. REFER TO GENERAL PLANS FOR CONCRETE REMOVAL AND REPLACEMENT.

C. REFER TO GENERAL AND CIVIL PLANS FOR EXISTING UTILITIES.

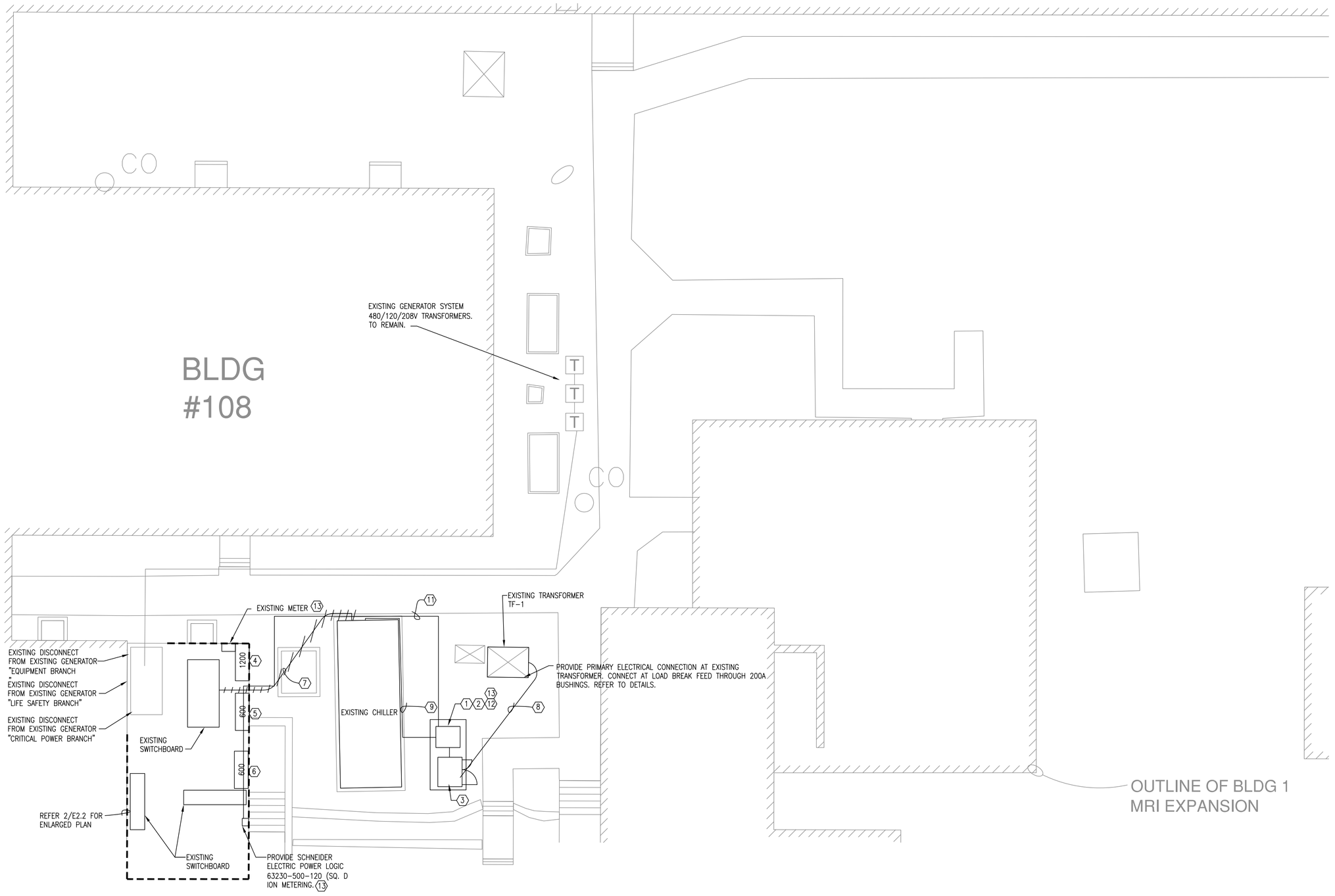
D. CONTRACTOR SHALL DOCUMENT PHASE AND ROTATION BEFORE AND AFTER SWITCH REPLACEMENT. COORDINATE AND DEMONSTRATE TO OWNER PRIOR TO PLACING BACK INTO SERVICE.

PLAN NOTES

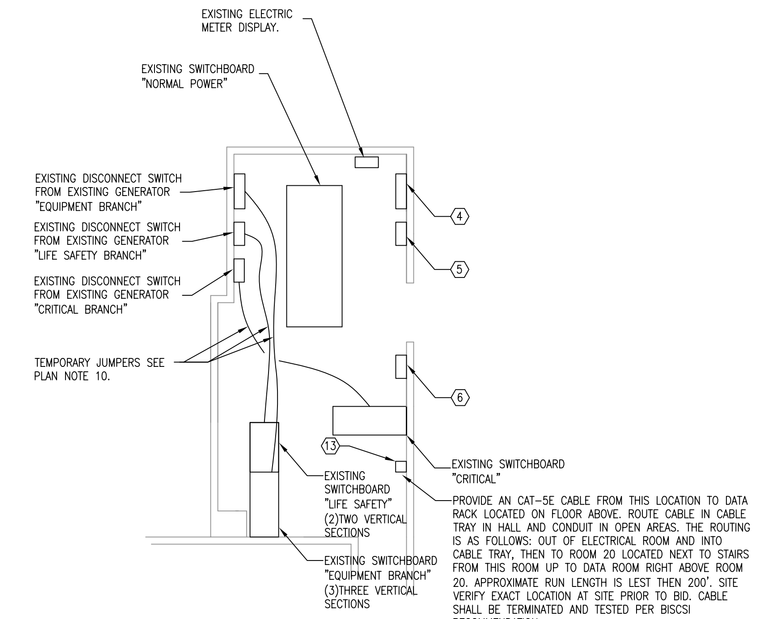
1. PROVIDE CONCRETE PAD FOR NEW TRANSFORMER, C/T METER CONNECTION CABINET AND SERVICE RATED DISCONNECT.
2. PROVIDE A NEW NEMA 3R, FREE STANDING, 1200 AMP, 120/208, 3 PHASE, 4 WIRE, 65K AIC SERVICE RATED DISCONNECT, C/T METER CONNECTION CABINET BY AMP, SHALLBETTER OR EQUAL FOR NEW CHILLER SERVICE. REFER CHILLER ONE-LINE AND DETAILS.
3. PROVIDE A NEW PAD MOUNTED TRANSFORMER FOR CHILLER.
4. DISCONNECT, REMOVE AND REPLACE EXISTING "EQUIPMENT BRANCH" 1200 AMP-3 POLE OPEN TRANSITION ATS WITH NEW ASCO 7000 SERIES OR EQUAL 1200 AMP-4 POLE CLOSED TRANSITION ATS. REFER TO SPECIFICATION 26 36 23 FOR ATS. REFER DETAILS.
5. DISCONNECT, REMOVE AND REPLACE EXISTING "LIFE SAFETY BRANCH" 600 AMP-3 POLE OPEN TRANSITION ATS WITH A NEW ASCO 7000 SERIES OR EQUAL 600 AMP-4 POLE CLOSED TRANSITION ATS. REFER TO SPECIFICATION 26 36 23 FOR ATS. REFER DETAILS.
6. DISCONNECT, REMOVE AND REPLACE EXISTING "CRITICAL BRANCH" 600 AMP-3 POLE OPEN TRANSITION ATS WITH A NEW ASCO 7000 SERIES OR EQUAL 600 AMP-4 POLE CLOSED TRANSITION ATS. REFER TO SPECIFICATION 26 36 23 FOR ATS. REFER DETAILS.
7. DISCONNECT AND REMOVE EXISTING 1200 AMP FEEDER TO EXISTING CHILLER. RE-LABEL SWITCH AS SPARE. REMOVE CONDUCTOR TO SOURCE. REMOVE ALL SURFACE ACCESSIBLE CONDUIT AND SUPPORTS. PLUG AND CAP ALL UNUSED CONDUIT OPENINGS. FEEDER CONDUCTOR SHALL BE REMOVED.
8. SEE TO 15KV PRIMARY SYSTEM ON-LINE DIAGRAM. PROVIDE NEW PRIMARY SYSTEM DUCT BANK AND FEEDER FROM EXISTING TRANSFORMER TO NEW CHILLER TRANSFORMER.
9. PROVIDE NEW CHILLER FEEDER. PROVIDE METERING CT/TRANSITION CABINET, SERVICE ENTRANCE DISCONNECT SWITCH AND CONNECTION TO EXISTING CHILLER.
10. TO FACILITATE ATS REPLACEMENT PROVIDE TEMPORARY JUMPERS AND FEED SWITCHBOARDS FROM DIRECTLY FROM THE EXISTING GENERATOR SERVICE DISCONNECTS. OWNER WILL OPERATE GENERATOR FOR DURATION OF ATS REPLACEMENT. SEE ALSO OUTAGE SCHEDULES:

EQUIPMENT BRANCH	1200A	(4 RUNS OF 350MCM)
LIFE SAFETY BRANCH	600A	(2 RUNS OF 350MCM)
CRITICAL POWER BRANCH	600A	(2 RUNS OF 350MCM)

11. APPROXIMATE LOCATION OF 1" CONDUIT WITH METERING CABLING. PROVIDE CABLING FROM C/T CABINET INTO BUILDING AND MAKE ALL REQUIRED CONNECTION TO OWNER SQUARE D "ION" METER SYSTEM. SEE SPECIFICATION SECTION 25.10.10.
12. PROVIDE ALL REQUIRED MOUNTING FOR NEW C/T METER CONNECTION CABINET AND DISCONNECT. ANCHOR TO THE CONCRETE PAD. PROVIDE ANCHORS AND STEEL FRAME PAINT TO MATCH C/T METER CONNECTION CABINET AND DISCONNECT.
13. PROVIDE METERING FOR CHILLER TRANSFORMER. SEE SECTION 25.10.10. SEE METERING BLOCK DIAGRAM. PROVIDE METERING CT'S IN CT CABINET (1200A RATED). INTERFACE WITH EXISTING SYSTEM AT EXISTING METER LOCATION. PROVIDE 1" DUCT TRENCHED FROM CT CABINET TO EXISTING BUILDING 1 METER LOCATION. PROVIDE INTERFACE CONDUCTOR PER MANUFATIURER.



N 1 E2.2 BUILDING ONE ELECTRICAL PLAN
SCALE = 1/8"=1'-0"



N 2 E2.2 ENLARGED ELECTRICAL ROOM
SCALE = 1/8"=1'-0"

100% CONSTRUCTION DOCUMENTS - FOR CONSTRUCTION

Revisions:	Date

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Drawing Title	BUILDING ONE ELECTRICAL PLAN
Approved:	JOEL A. KATH LICENSE #25677
Project Title	Transfer Switches
Location	St. Cloud VA Health Care System
Date	April 6, 2012
Checked	JAK
Drawn	CAB/DLJ
Project Number	656-12-193
Building Number	-
Drawing Number	E2.2
Dwg.	5 of 8

VAMC SAINT CLOUD MN