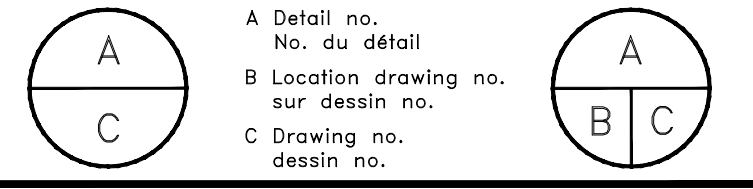




D	17.10.16	ISSUED FOR TENDER	D.v.g.
C	17.10.06	REVISED TO WOOD DEAD END	D.v.g.
B	17.08.18	ISSUED FOR FINAL REVIEW	D.v.g.
No.	YY.MM.DD	Date	By: / Par:

Date Printed: _____ Date imprimée: _____

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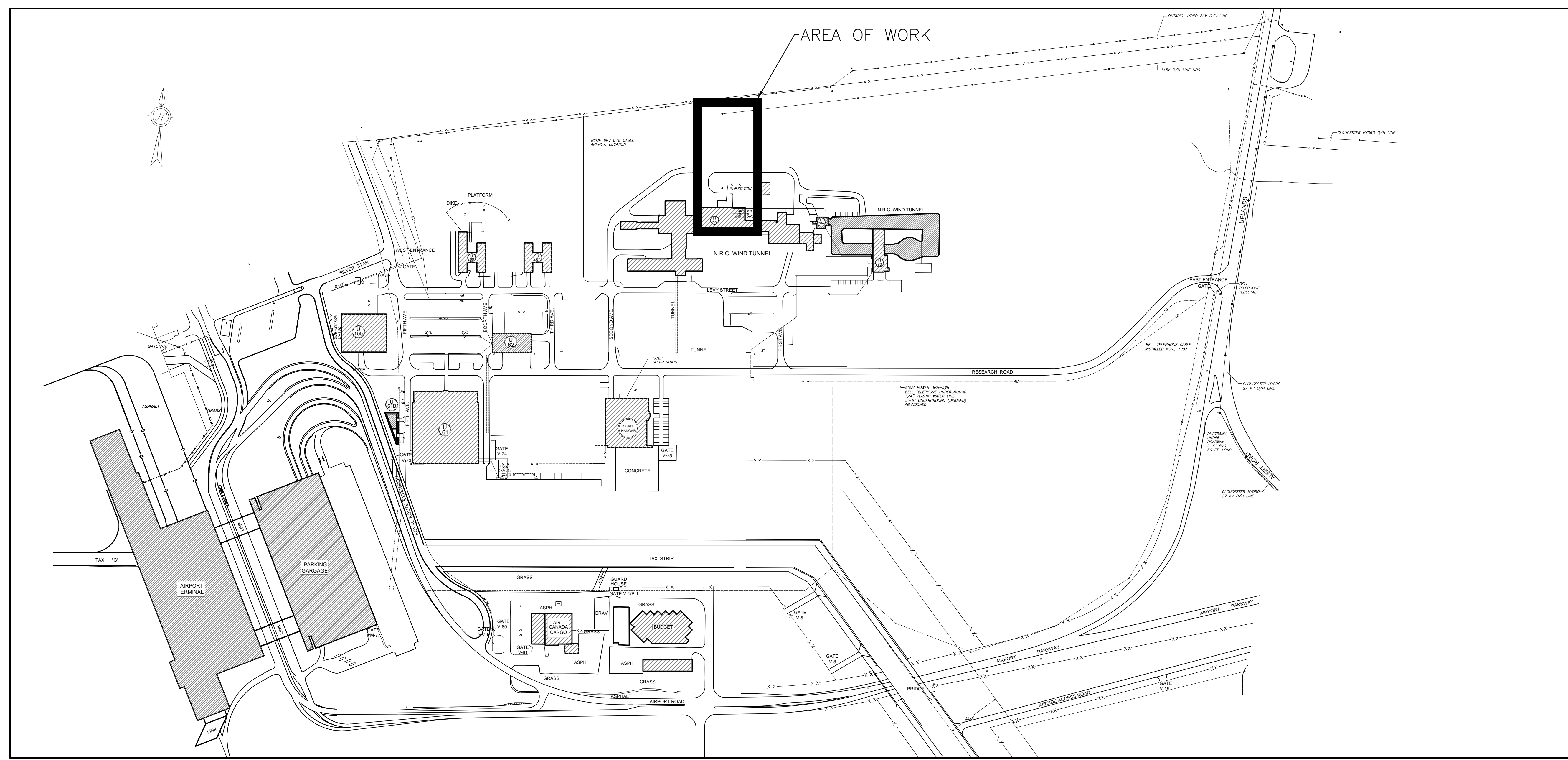
project: **BUILDING U-66**
115 KV OUTDOOR SUBSTATION

UPLANDS CAMPUS

drawing: **GENERAL PROJECT AREA, DRAWING LIST, AND GENERAL NOTES**

designed	conçu	date	date
D.v.g.		JULY 2017	
drawn	dessiné	scale	échelle
HS.		NOT TO SCALE	
checked	vérifié	sheet	feuille
P.D.		01	of/de 08
approved	approuvé	W.O.no.	D.T.no.
D.v.g.		Stantec No.: 163301846	
dwg.no.		dessin no.	

D-5078-G100



CAMPUS SITE PLAN
 N.T.S.

DRAWING LIST	
DWG#	DRAWING NAME
GENERAL	
G100	PROJECT AREA, DRAWING LIST, AND GENERAL NOTES
ELECTRICAL	
E100	PART SINGLE LINE DIAGRAM - PHASE 1 DEMOLITION
E101	PART SINGLE LINE DIAGRAM - PHASE 1 NEW CONSTRUCTION
E102	115KV SUBSTATION LAYOUT - DEMOLITION
E103	115KV SUBSTATION LAYOUT - NEW CONSTRUCTION
E104	115KV SUBSTATION LAYOUT - GROUNDING
E105	115KV SUBSTATION SECTION - DEMOLITION
E106	115KV SUBSTATION SECTION - NEW WORK

GENERAL NOTES:

- EXCEPT AS NOTED OTHERWISE ALL EXISTING EQUIPMENT TO REMAIN IS SHOWN IN THIN SOLID LINES.
- EXCEPT AS NOTED OTHERWISE ALL EQUIPMENT TO BE DEMOLISHED IS SHOWN IN THICK DASHED LINES.
- EXCEPT AS NOTED OTHERWISE ALL NEW EQUIPMENT IS SHOWN IN THICK SOLID LINES.

PROJECT SPECIFIC NOTES:

- ALL WORK REQUIRING EQUIPMENT SHUTDOWNS MUST BE COORDINATED WITH THE NRC, AND COMPLETED DURING OVERTIME HOURS. SHUTDOWNS MUST BE COMPLETE 8 HOURS IN ADVANCE OF THE SITE'S REGULAR WORKING HOURS, WHICH ARE MONDAY TO FRIDAY 6AM TO 10PM.
- CONTRACTOR IS RESPONSIBLE FOR CONFIRMING PHASING AND ROTATION MATCHES EXISTING SYSTEM CONFIGURATION PRIOR TO ENERGIZING ANY NEW FEEDER CABLES OR NEW EQUIPMENT AND SHALL SUBMIT DOCUMENTATION STATING EXISTING PHASE ROTATION BEFORE DE-ENERGIZATION OF ANY FEEDER.
- CONTRACTOR MUST COMPLETE SERVICE LOCATES IN ALL AREAS WHERE EXCAVATION IS BEING COMPLETED BEFORE COMMENCING EXCAVATIONS. CONTRACTOR MUST SUPPORT EXISTING SERVICES AS REQUIRED DURING EXCAVATION.
- ALL EXCAVATION IN 115KV SUBSTATION AND WITHIN 2 METERS OF EXISTING SERVICES MUST BE COMPLETED BY HYDRO VAC.
- CONTRACTOR IS RESPONSIBLE FOR THE SUPPLY, INSTALLATION, AND TERMINATION OF ALL NEW FEEDER CABLES IDENTIFIED IN THIS DRAWING SET.

DESCRIPTION OF WORK:

- REMOVE EXISTING 115KV OVERHEAD LINE AND DEAD END STRUCTURE SUPPLYING EXISTING 115KV TRANSFORMER T1.
- REPLACE EXISTING WOOD DEAD END STRUCTURE WITH NEW WOOD DEAD END STRUCTURE.
- CONNECT 115KV OVERHEAD LINE TO EXISTING CIRCUIT SWITCHER.
- RE-CONNECT NEW 115KV OVERHEAD LINE AND INSTALL NEW LINE OPENERS.

PROJECT PHASING

- DISCONNECT AND REMOVE EXISTING 115KV STRUCTURES AND OVERHEAD LINE SUPPLYING EXISTING TRANSFORMER T1.
- CONSTRUCT NEW DEAD END WOOD STRUCTURE.
- CONNECT NEW 115KV OVERHEAD LINE TO EXISTING 115KV CIRCUIT SWITCHER.



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 - EXCEPT AS NOTED OTHERWISE ALL NEW EQUIPMENT IS SHOWN IN THICK SOLID LINES.
 - EXCEPT AS NOTED OTHERWISE ALL FUTURE EQUIPMENT IS SHOWN IN SHADED DASHED LINES.

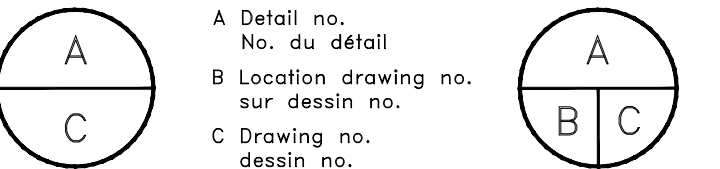
- DRAWING NOTES:**
- NRC TO SCHEDULE SHUTDOWN WITH HYDRO ONE TO ISOLATE EXISTING 115KV OVERHEAD LINE BY OPENING LINE OPENERS 5201A3RM-LC1 TO TRANSFORMER T1 AND T2.
 - DURING SHUTDOWN REMOVE OVERHEAD LINE FROM EXISTING CORNER POLE TO TRANSFORMER T1 CIRCUIT SWITCHER.



D	17.10.16	ISSUED FOR TENDER	D.v.g.
C	17.10.06	REVISED TO WOOD DEAD END	D.v.g.
B	17.08.18	ISSUED FOR FINAL REVIEW	D.v.g.
No.	YY.MM.DD	Revision	By: / Par:

Date Printed: _____ Date imprimée: _____

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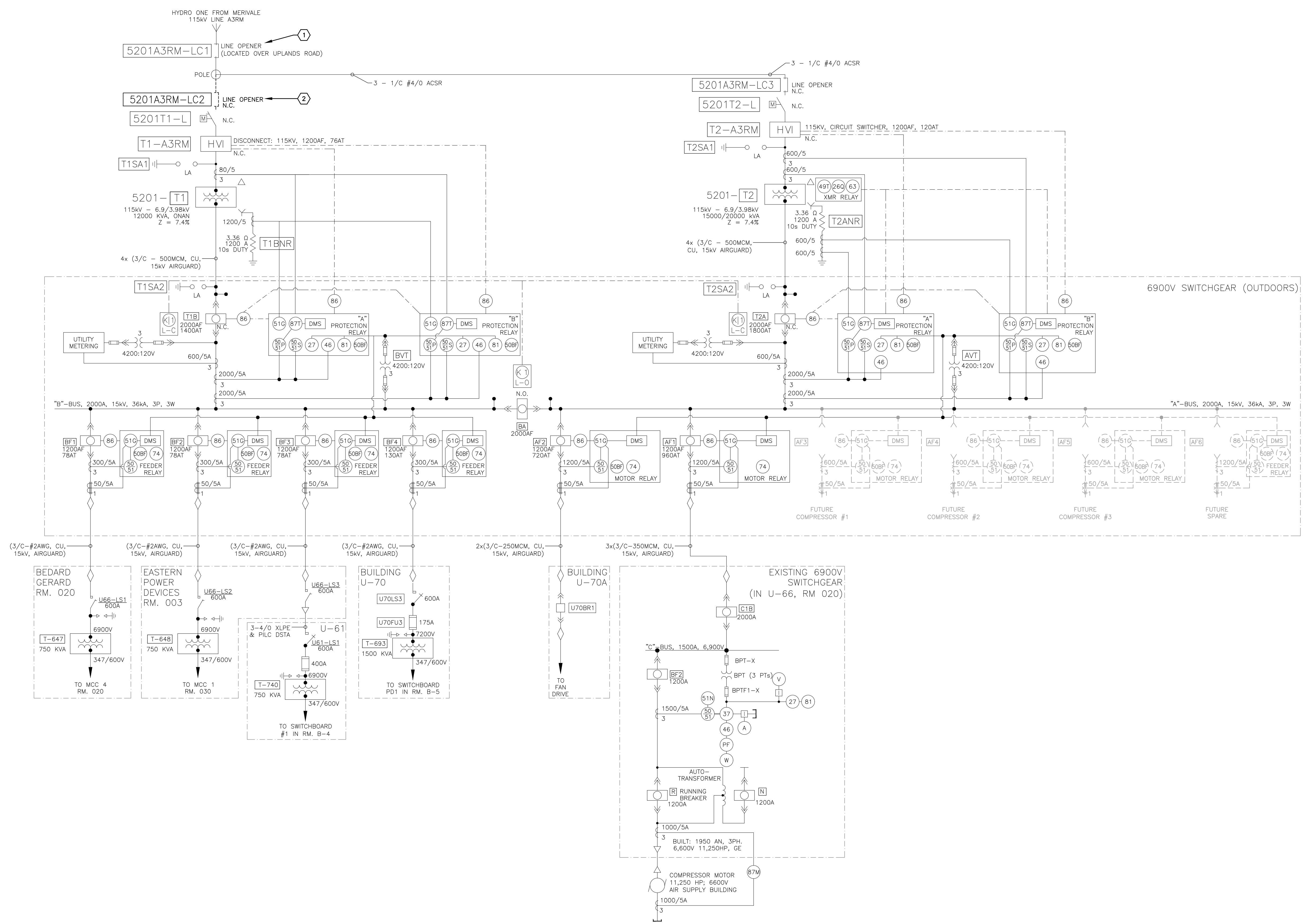


project: **BUILDING U-66**
115 KV OUTDOOR SUBSTATION

UPLANDS CAMPUS

drawing: **ELECTRICAL**
PART. SINGLE LINE DIAGRAM
PHASE 1 - DEMOLITION

designed	conçu	date	date
D.v.g.		JULY 2017	
drawn	dessiné	scale	échelle
HS.		NOT TO SCALE	
checked	vérifié	sheet	feuille
P.D.		02	of/de 08
approved	approuvé	W.O.no.	D.T.no.
D.v.g.		Stantec No.: 163301846	
dwg.no.		dessin no.	
D-5078-E100			



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 2017/10/18 1:13 PM By: Sullivan, Heather



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 - EXCEPT AS NOTED OTHERWISE ALL NEW EQUIPMENT IS SHOWN IN THICK SOLID LINES.
 - EXCEPT AS NOTED OTHERWISE ALL FUTURE EQUIPMENT IS SHOWN IN SHADED DASHED LINES.

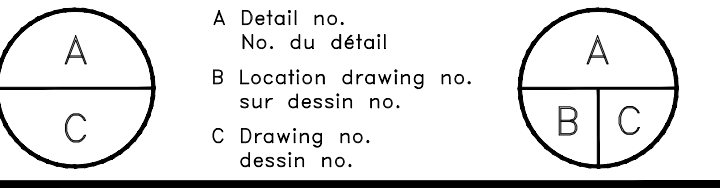
- DRAWING NOTES:**
- ONCE EXISTING 115KV OVERHEAD LINE IS REMOVED CONSTRUCT NEW DEAD END STRUCTURE, INSTALL LINE OPENERS AND CONNECT TO CIRCUIT SWITCHER OF TRANSFORMER T1.
 - NRC TO SCHEDULE A SHUTDOWN OF EXISTING 115KV OVERHEAD LINE WITH HYDRO ONE. DURING SCHEDULED SHUTDOWN CONNECT NEW OVERHEAD LINE TO EXISTING OVERHEAD LINE.
 - FOLLOWING ENERGIZATION OF TRANSFORMER T1, VERIFY PHASING AND ROTATION ACROSS 6900V SWITCHGEAR'S MAIN BREAKER T1B.



D	17.10.16	ISSUED FOR TENDER	D.v.g.
C	17.10.06	REVISED TO WOOD DEAD END	D.v.g.
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No.	YY.MM.DD	Revision	By: / Par:

Date Printed: _____ Date imprimée: _____

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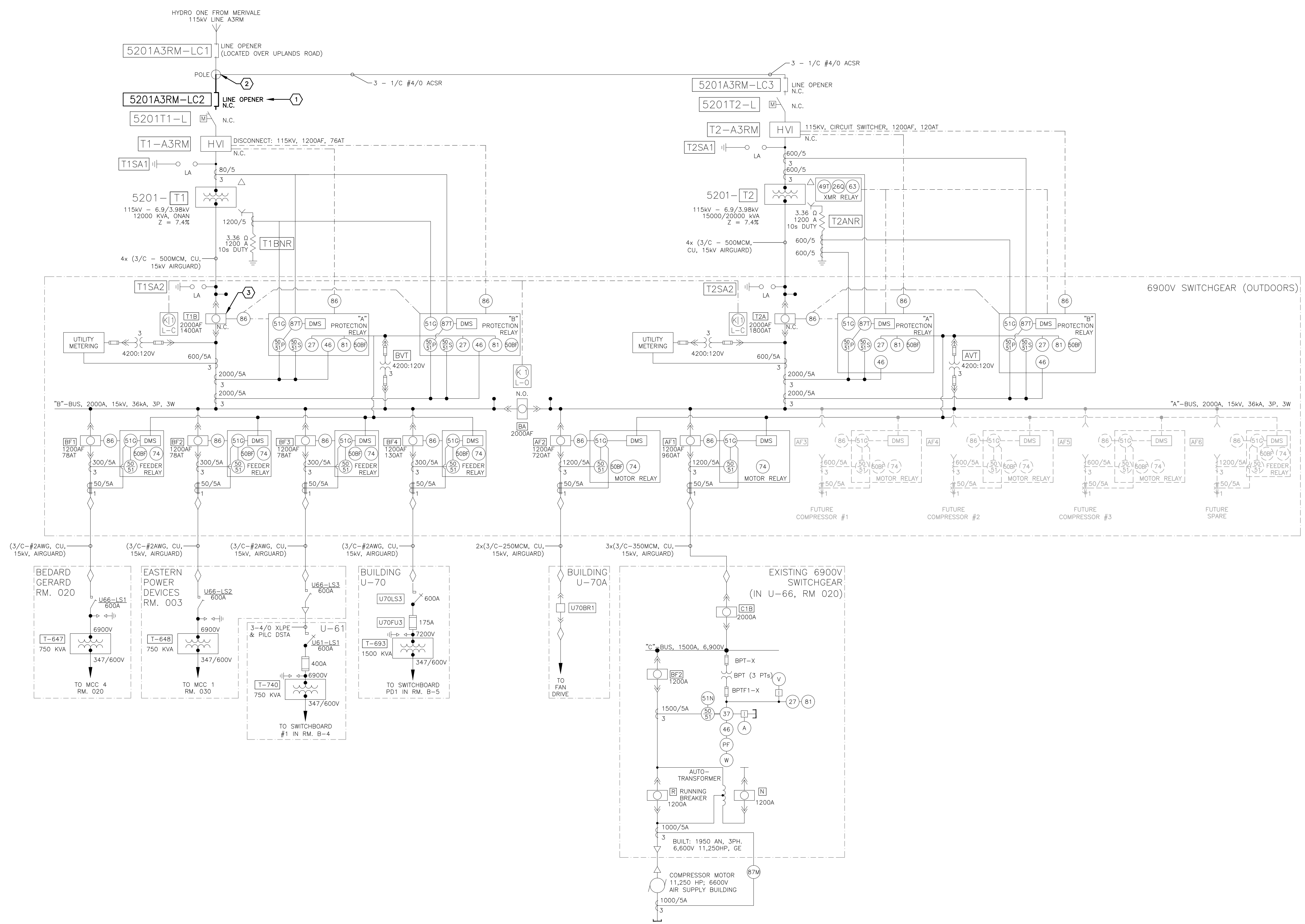


**BUILDING U-66
 115 KV OUTDOOR SUBSTATION**

UPLANDS CAMPUS

**ELECTRICAL
 PART. SINGLE LINE DIAGRAM
 PHASE 1 - NEW CONSTRUCTION**

designed	conçu	date	date
D.v.g.		JULY 2017	
drawn	dessiné	scale	échelle
HS.		NOT TO SCALE	
checked	vérifié	sheet	feuille
P.D.		03 of/de	08
approved	approuvé	W.O.no.	D.T.no.
D.v.g.		Stantec No.: 163301846	
dwg.no.	dessin no.		
D-5078-E101			



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 2017/10/19 1:13 PM By: Sullivan, Heather

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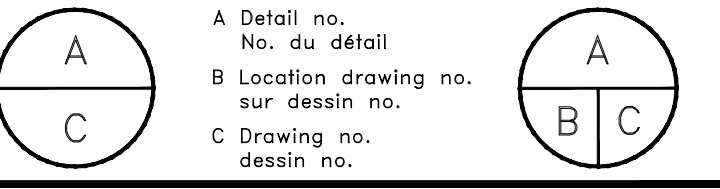
- GENERAL NOTES:**
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 - EXCEPT AS NOTED OTHERWISE ALL EQUIPMENT TO BE DEMOLISHED IS SHOWN IN THICK DASHED LINES.
 - EXCEPT AS NOTED OTHERWISE ALL NEW EQUIPMENT IS SHOWN IN THICK SOLID LINES.
 - EXCEPT AS NOTED OTHERWISE ALL FUTURE EQUIPMENT IS SHOWN IN SHADED DASHED LINES.

- DRAWING NOTES:**
- OBTAIN ISOLATION OF OVERHEAD LINE FROM HYDRO ONE.
 - DISCONNECT AND REMOVE EXISTING OVERHEAD LINE AND UTILITY POLES DURING A SCHEDULED SHUTDOWN. DISPOSE OF INSULATORS AND STRUCTURE OFFSITE AT CONTRACTORS EXPENSE.
 - INSTALL TEMPORARY FENCING DURING CONSTRUCTION TO PREVENT PUBLIC ACCESS TO EXISTING 115KV SUBSTATION.
 - REMOVE EXISTING FENCING.



D	17.10.16	ISSUED FOR TENDER	D.v.g.
C	17.10.06	REVISED TO WOOD DEAD END	D.v.g.
B	17.08.18	ISSUED FOR FINAL REVIEW	D.v.g.
No.	YY.MM.DD	Date	By: / Par:

Date Printed: _____ Date imprimée: _____
 • Verify all dimensions and site conditions and be responsible for same
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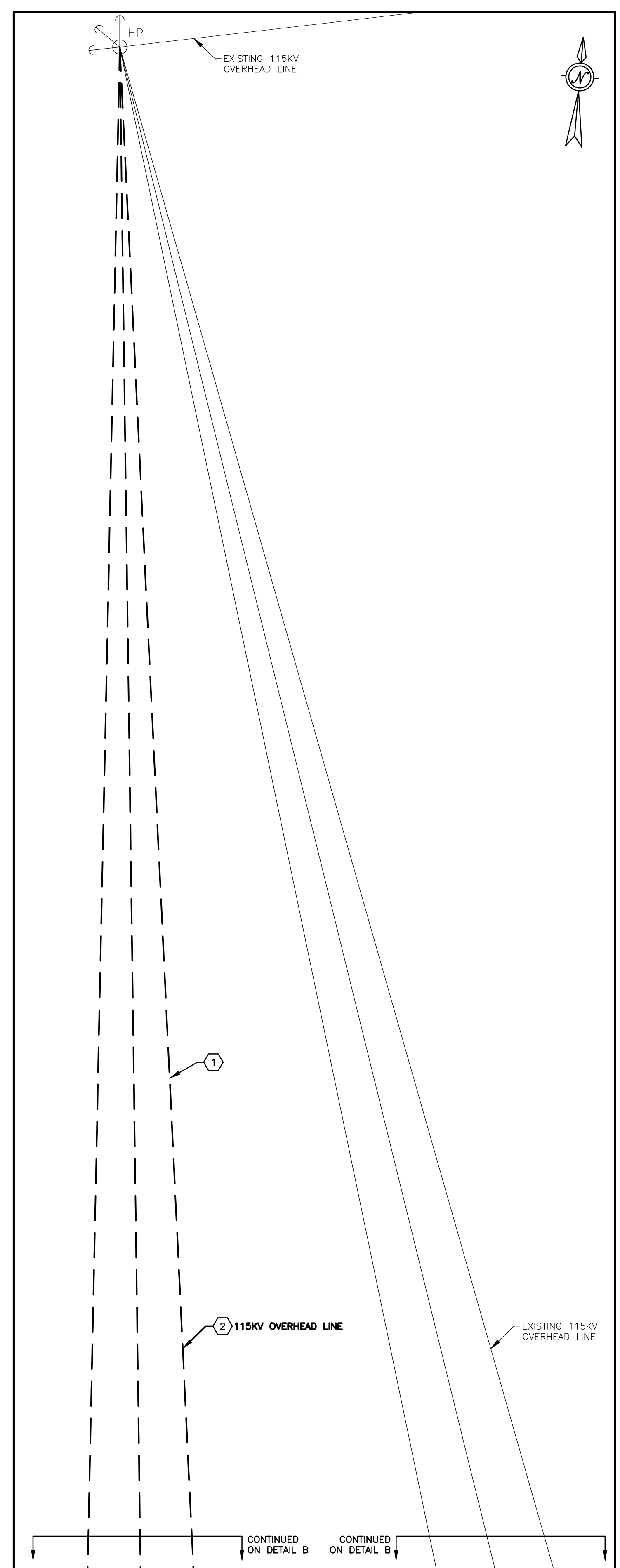


project: **BUILDING U-66
115 KV OUTDOOR SUBSTATION**

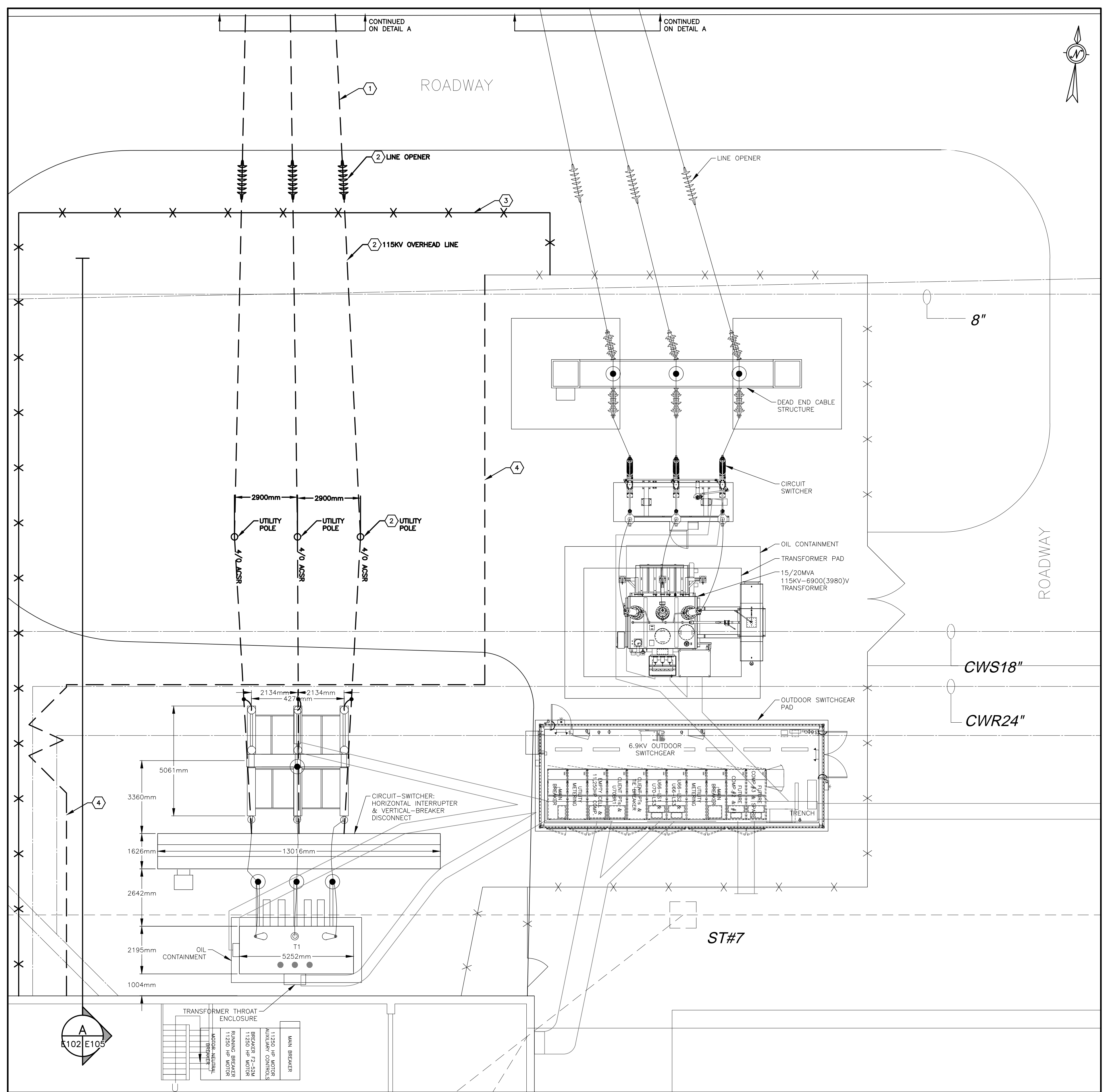
UPLANDS CAMPUS

drawing: **ELECTRICAL
115KV SUBSTATION LAYOUT
DEMOLITION**

designed	conçu	date	date
D.v.g.		JULY 2017	
drawn	dessiné	scale	échelle
HS		1:100	
checked	vérifié	sheet	feuille
P.D.		04	of/de 08
approved	approuvé	W.O.no.	D.T.no.
D.v.g.		Stantec No.: 163301846	
dwg.no.		dessin no.	
D-5078-E102			



A
E102
115KV POWER LINES
1:100



B
E102
115KV SUBSTATION LAYOUT
1:100

V:\01-437\action\43701846_NRC_Uplands_115KV_Sub\Working_Phase2\01846_E102-E104.dwg
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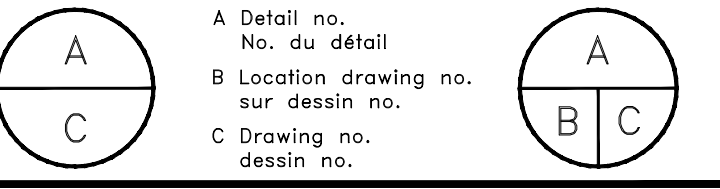
- GENERAL NOTES:**
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 - EXCEPT AS NOTED OTHERWISE ALL EQUIPMENT TO BE DEMOLISHED IS SHOWN IN THICK DASHED LINES.
 - EXCEPT AS NOTED OTHERWISE ALL NEW EQUIPMENT IS SHOWN IN THICK SOLID LINES.
 - EXCEPT AS NOTED OTHERWISE ALL FUTURE EQUIPMENT IS SHOWN IN SHADED DASHED LINES.

- DRAWING NOTES:**
- CONSTRUCT NEW DEAD END STRUCTURE USING WOOD POLES AS PER SPECIFICATIONS. INSTALL ALL REQUIRED CROSS BRACING AND GUYING.
 - SUPPLY AND INSTALL NEW LINE OPENERS.
 - SUPPLY AND INSTALL NEW FENCE TO MATCH EXISTING. GROUND FENCE AS PER DETAIL B ON DRAWING E106.
 - SUPPLY AND INSTALL NEW 115KV OVERHEAD LINE AND TWO SKY WIRES. ONE SKY WIRE TO BE RUN TO EACH OF THE OUTSIDE WOOD POLES.



D	17.10.16	ISSUED FOR TENDER	D.v.g.
C	17.10.06	REVISED TO WOOD DEAD END	D.v.g.
B	17.08.18	ISSUED FOR FINAL REVIEW	D.v.g.
No.	YY.MM.DD	Date	By: / For:

Date Printed: _____ Date imprimée: _____
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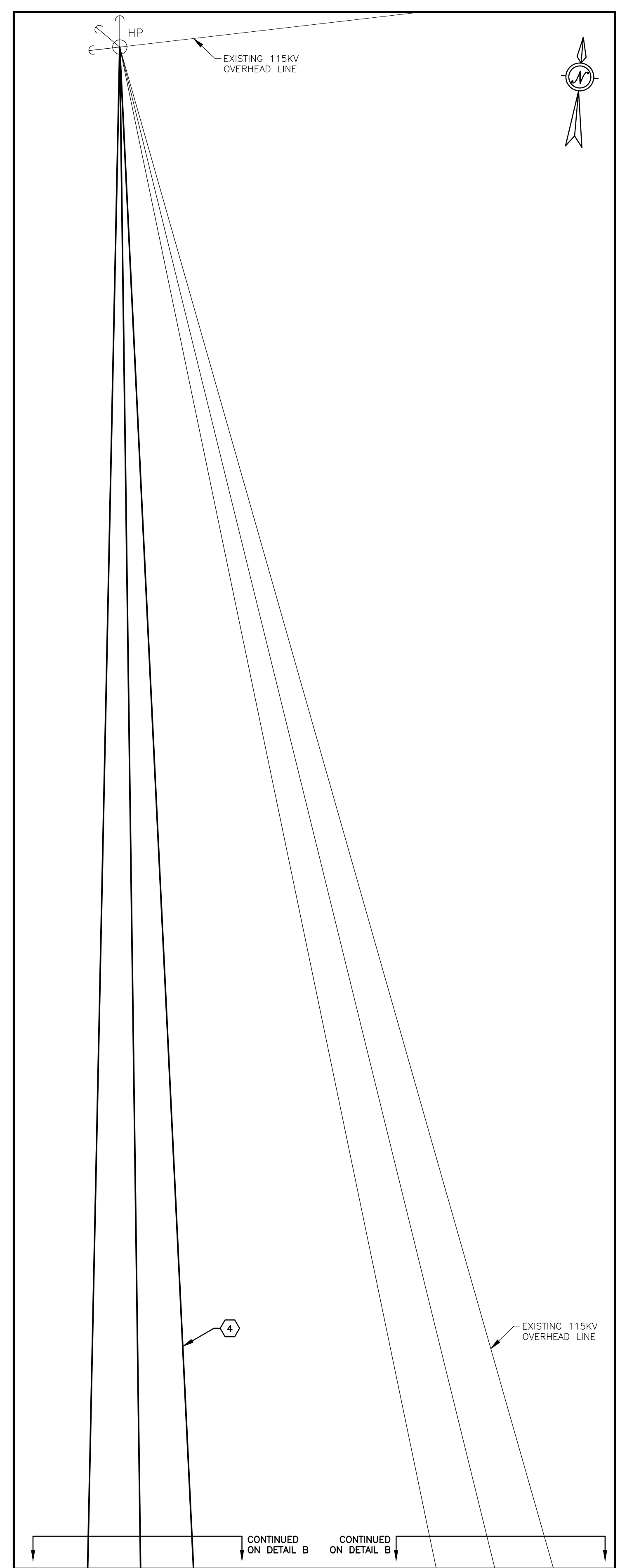


**BUILDING U-66
 115 KV OUTDOOR SUBSTATION**

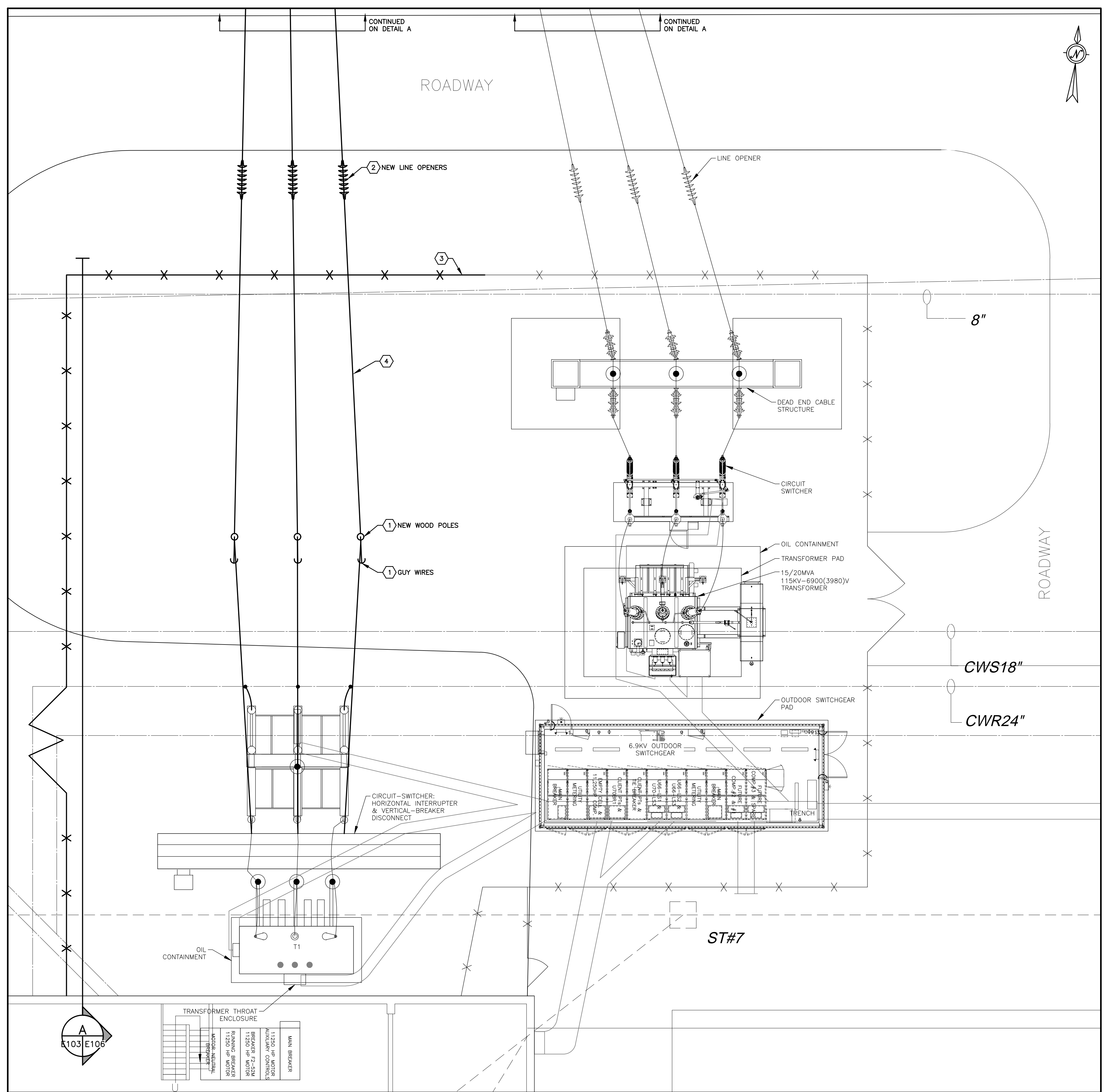
UPLANDS CAMPUS

**ELECTRICAL
 115KV SUBSTATION LAYOUT
 NEW CONSTRUCTION**

designed	conçu	date	date
D.v.g.		JULY 2017	
drawn	dessiné	scale	échelle
HS.		1:100	
checked	vérifié	sheet	feuille
P.D.		05 of/de	08
approved	approuvé	W.O.no.	D.T.no.
D.v.g.		Stantec No.: 163301846	
dwg.no.	dessin no.		
D-5078-E103			



A 115KV POWER LINES
 E103 1:100



B 115KV SUBSTATION LAYOUT
 E103 1:100

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 2017/10/18 1:13 PM By: Sullivan, Heather



ROADWAY

- DRAWING NOTES:**
- 1 SUPPLY AND INSTALL NEW GROUND CONDUCTORS AS INDICATED.
 - 2 SUPPLY AND INSTALL NEW LAYER OF 150mm CRUSHED STONE OVER COMPLETE SUBSTATION EXTENDING 2000mm BEYOND FENCE.
 - 3 SUPPLY AND INSTALL NEW FENCING. GROUND FENCE AS PER DETAIL B ON DRAWING E106.
 - 4 SUPPLY AND INSTALL 6m x 19mm COPPER CLAD STEEL GROUND RODS.
 - 5 MAINTAIN GUY WIRE GROUNDING CONNECTIONS.
 - 6 CONNECT SKY WIRES DOWN WIRES TO GROUND GRID.

NRC - CNRC



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 3. EXCEPT AS NOTED OTHERWISE ALL NEW EQUIPMENT IS SHOWN IN THICK SOLID LINES.
 4. EXCEPT AS NOTED OTHERWISE ALL FUTURE EQUIPMENT IS SHOWN IN SHADED DASHED LINES.
 5. ALL CONNECTIONS BELOW GRADE MUST BE EXOTHERMIC WELDS OR COMPRESSION CONNECTIONS.
 6. ALL GROUND CONDUCTORS MUST BE A MINIMUM #4/0 AWG BARE COPPER CONDUCTORS.
 7. ALL EQUIPMENT MUST BE GROUNDED WITH A MINIMUM OF TWO #4/0 AWG BARE COPPER CONDUCTORS CONNECTED TO GROUND GRID.
 8. NEW GROUND GRID MUST BE CONNECTED TO EXISTING GROUND GRID DURING COMPLETE SHUTDOWN OF EXISTING 115KV SUBSTATION.



D	17.10.16	ISSUED FOR TENDER	D.v.g.
C	17.10.06	REVISED TO WOOD DEAD END	D.v.g.
B	17.08.18	ISSUED FOR FINAL REVIEW	D.v.g.
No.	YY.MM.DD	Revision	By: Par:

Date Printed: _____ Date imprimée: _____

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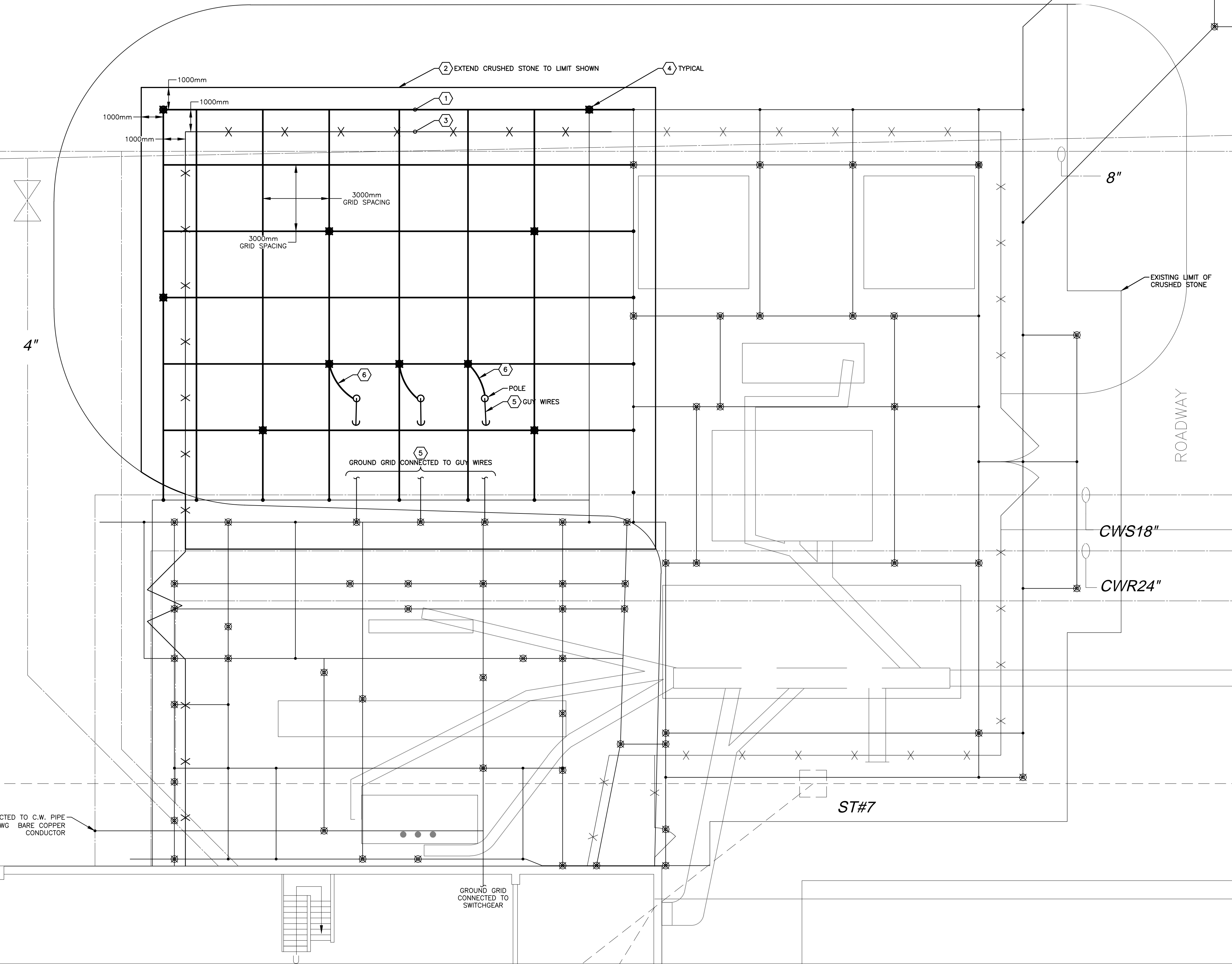
A	A Detail no. No. du détail	A
B	B Location drawing no. sur dessin no.	B
C	C Drawing no. dessin no.	C

project: **BUILDING U-66**
115 KV OUTDOOR SUBSTATION

UPLANDS CAMPUS

drawing: **ELECTRICAL**
115KV SUBSTATION LAYOUT
GROUNING

designed	conçu	date	date
D.v.g.		JULY 2017	
drawn	dessiné	scale	échelle
H.S.		1:100	
checked	vérifié	sheet	feuille
P.D.		06 of/de	08
approved	approuvé	W.O.no.	D.T.no.
D.v.g.		Stantec No.: 163301846	
dwg.no.		dessin no.	
D-5078-E104			



B 115KV SUBSTATION LAYOUT - GROUNING PLAN
E104 1:100

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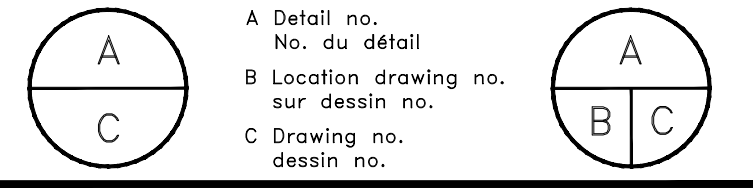
- DRAWING NOTES:**
- DISCONNECT AND REMOVE EXISTING OVERHEAD LINE AND UTILITY POLES DURING A SCHEDULED SHUTDOWN. DISPOSE OF INSULATORS AND STRUCTURE OFFSITE AT CONTRACTORS EXPENSE.
 - INSTALL TEMPORARY FENCING DURING CONSTRUCTION TO PREVENT PUBLIC ACCESS TO EXISTING 115kV SUBSTATION.
 - REMOVE EXISTING FENCING.



D	17.10.16	ISSUED FOR TENDER	D.v.g.
C	17.10.06	REVISED TO WOOD DEAD END	D.v.g.
B	17.08.18	ISSUED FOR FINAL REVIEW	D.v.g.
No.	YY.MM.DD	Revision	By: / Par:

Date Printed / Date imprimée

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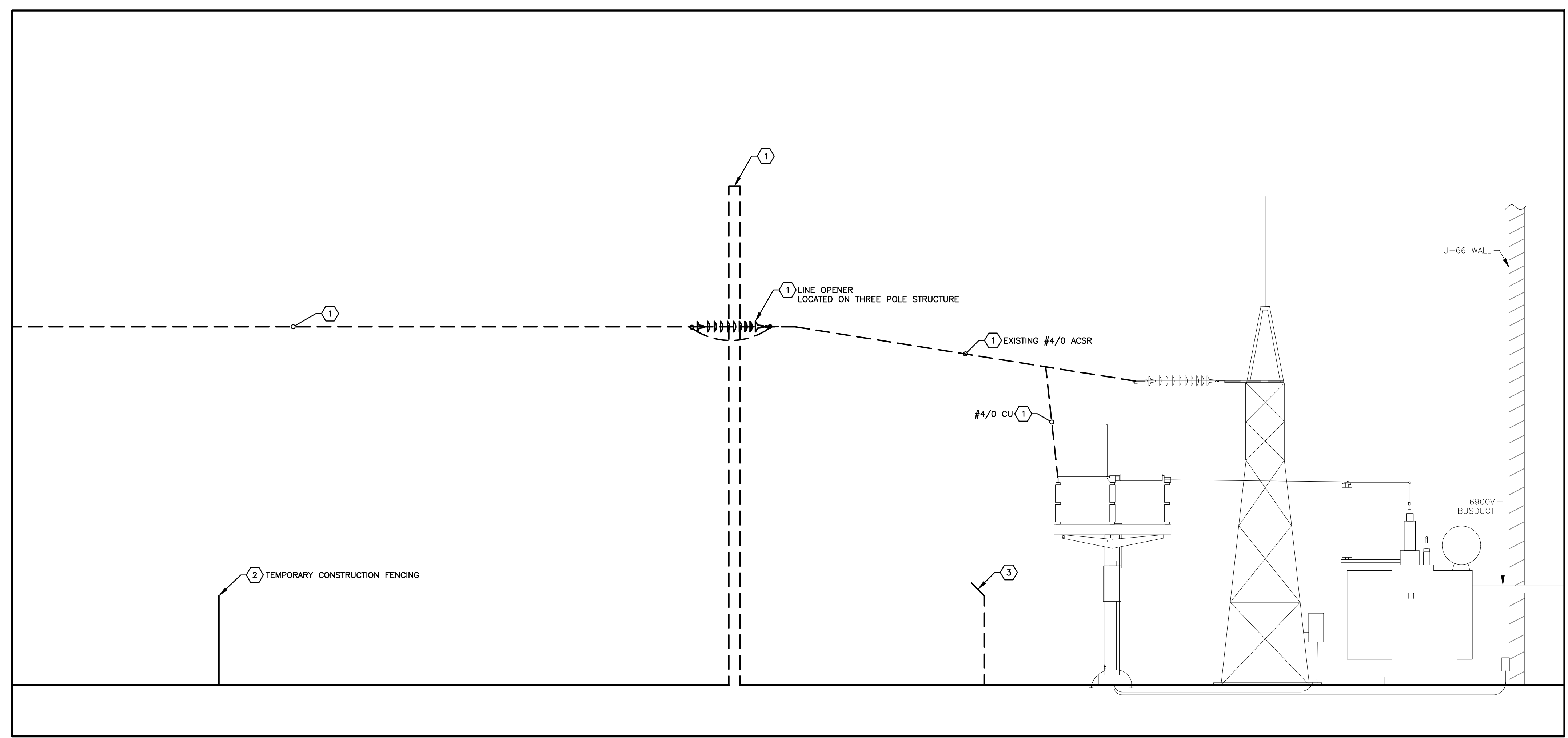
project / projet
BUILDING U-66
115 KV OUTDOOR SUBSTATION

UPLANDS CAMPUS

drawing / dessin
ELECTRICAL
115KV SUBSTATION
SECTION - DEMOLITION

designed / conçu	D.v.g.	date	JULY 2017
drawn / dessiné	H.S.	scale / échelle	NOT TO SCALE
checked / vérifié	P.D.	sheet / feuille	07 of/de 08
approved / approuvé	D.v.g.	W.O.no.	D.T.no.
		Stantec No.: 163301846	

dwg.no. / dessin no.
D-5078-E105

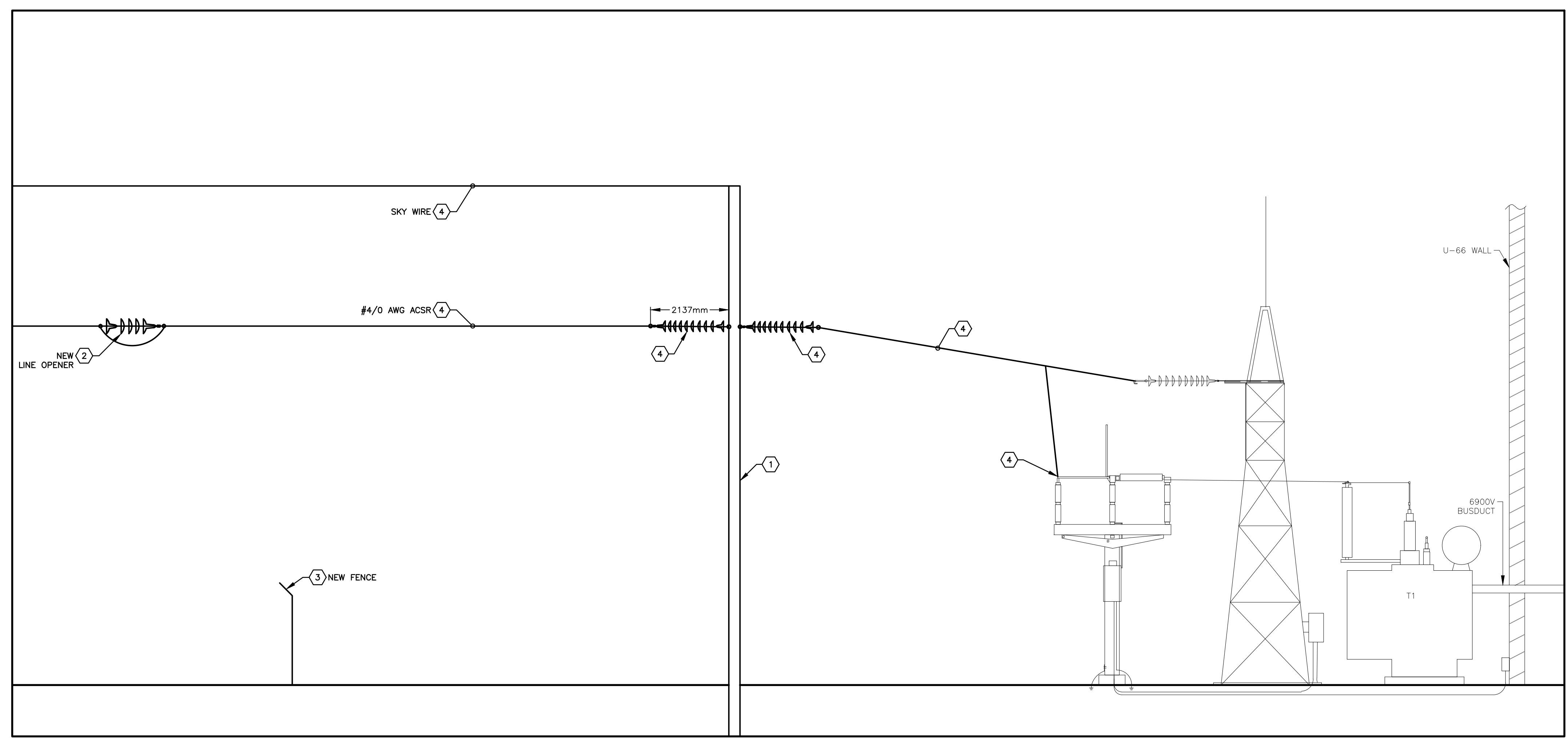


A
E102
 CROSS SECTIONAL VIEW OF
 115 KV SUBSTATION - DEMOLITION
 NOT TO SCALE

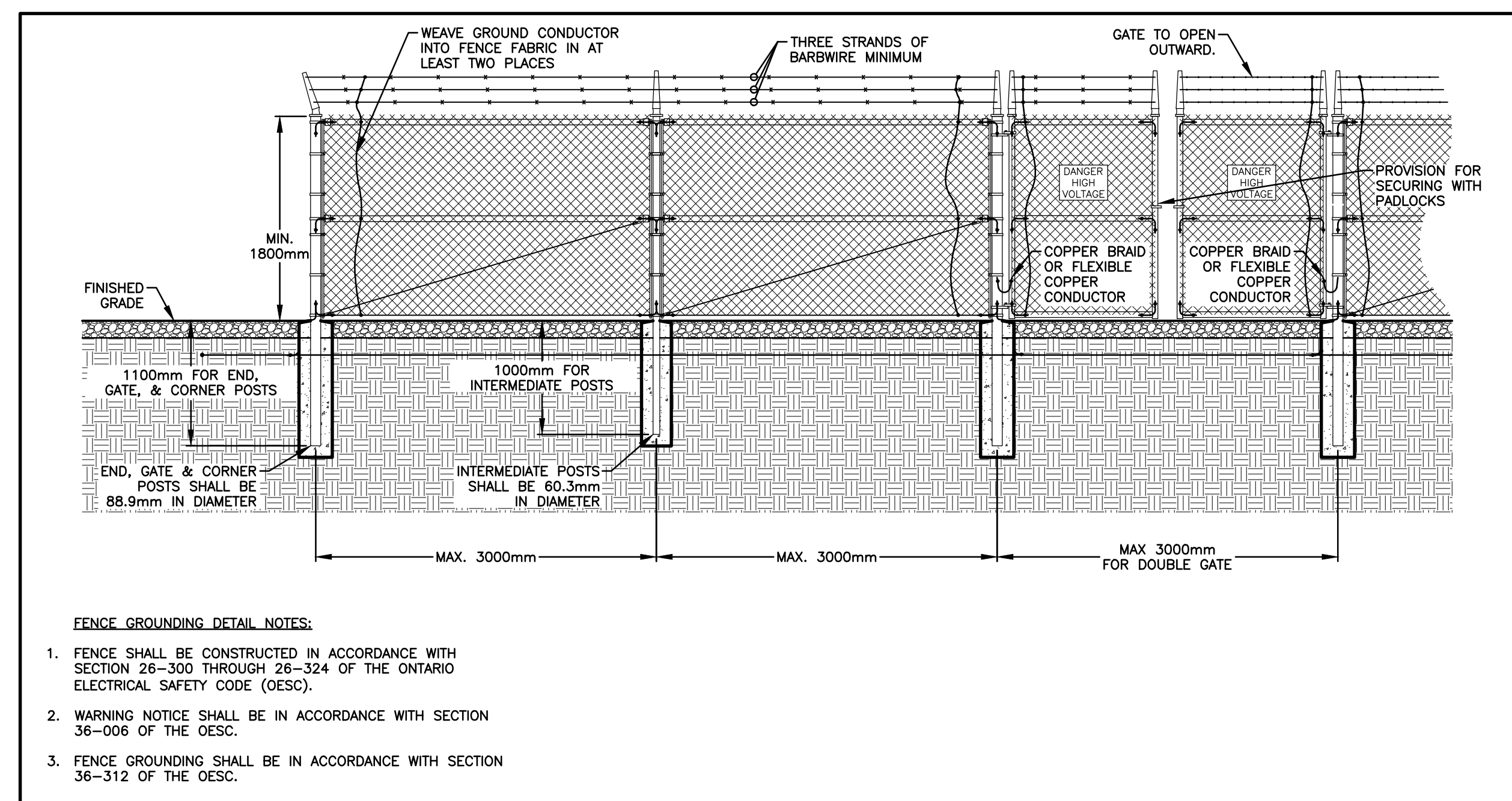
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 - EXCEPT AS NOTED OTHERWISE ALL EQUIPMENT TO BE DEMOLISHED IS SHOWN IN THICK DASHED LINES.
 - EXCEPT AS NOTED OTHERWISE ALL NEW EQUIPMENT IS SHOWN IN THICK SOLID LINES.
 - EXCEPT AS NOTED OTHERWISE ALL FUTURE EQUIPMENT IS SHOWN IN SHADED DASHED LINES.

- DRAWING NOTES:**
- CONSTRUCT NEW DEAD END STRUCTURE USING WOOD POLES AS PER SPECIFICATIONS.
 - SUPPLY AND INSTALL NEW LINE OPENERS.
 - SUPPLY AND INSTALL NEW FENCE TO MATCH EXISTING GROUND FENCE AS PER DETAIL B.
 - SUPPLY AND INSTALL NEW 115KV OVERHEAD LINE, NEW DEAD END ISOLATORS AND TWO SKY WIRES. ONE SKY WIRE TO BE RUN TO EACH OUTSIDE WOOD POLE. TERMINATE NEW 115KV OVERHEAD LINE TO EXISTING 115KV CIRCUIT SWITCHER.



A
 CROSS SECTIONAL VIEW OF
 115 KV SUBSTATION - NEW CONSTRUCTION
 E103 NOT TO SCALE

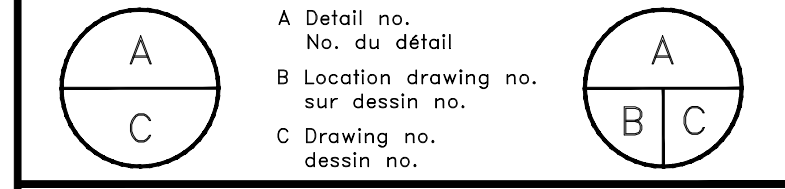


B
 ELEVATION
 FENCE GROUNDING DETAIL
 E104 1:40

- FENCE GROUNDING DETAIL NOTES:**
- FENCE SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 26-300 THROUGH 26-324 OF THE ONTARIO ELECTRICAL SAFETY CODE (OESC).
 - WARNING NOTICE SHALL BE IN ACCORDANCE WITH SECTION 36-006 OF THE OESC.
 - FENCE GROUNDING SHALL BE IN ACCORDANCE WITH SECTION 36-312 OF THE OESC.

D	17.10.16	ISSUED FOR TENDER	D.v.g.
C	17.10.06	REVISED TO WOOD DEAD END	D.v.g.
B	17.08.18	ISSUED FOR FINAL REVIEW	D.v.g.
No.	YY.MM.DD	Date	Revision
			By: Par:

Date Printed: _____ Date imprimée: _____
 Verify all dimensions and site conditions and be responsible for same.
 Vérifier toutes les dimensions et l'état des lieux et en assumer la responsabilité.



project: BUILDING U-66
 115 KV OUTDOOR SUBSTATION

UPLANDS CAMPUS

drawing: ELECTRICAL
 115KV SUBSTATION
 SECTION - NEW WORK

designed	conçu	date	date
D.v.g.		JULY 2017	
drawn	dessiné	scale	échelle
H.S.		NOT TO SCALE	
checked	vérifié	sheet	feuille
P.D.		08	of/de 08
approved	approuvé	W.O.no.	D.T.no.
D.v.g.			
dwg.no.		Stantec No.: 163301846	
		dessin no.	

D-5078-E106