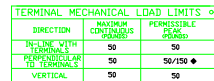




1. TOTAL WEIGHT 800 LBS (360 KG).
2. A TYPICAL BOLT CONNECTION FOR FIELD ASSEMBLY WILL REQUIRE ONE FLATWASHER UNDER THE BOLT AND UNDER THE NUT.
3. SUPPORT ANGLE (ITEM 17) TO BE SUPPLIED ATTACHED TO PERISTALTIC (ITEM 6A).
4. STANDARD FEATURES
 - R 100-VOLT 60 HZ OPERATOR CONTROL VOLTAGE
 - E16 16 INCH PERISTALSIS
 - H6 100-VOLT 60 HZ HEATER SUPPLY
5. SWITCH-RELATED OPTIONAL FEATURES
 - R2 LOW TEMPERATURE INTERRUPTER
6. SWITCH-RELATED SPECIAL FEATURES
 - REVERSE COLOR INDICATOR PLATE RED-ON GREEN-CLOSED
 - GRABBLE LUG ADAPTED PLATES



◆150 LBS. UNDER MOMENTARY SHORT-CIRCUIT CONDITIONS
O SERIES 2000 CIRCUIT-SWITCHES, WHEN INSTALLED WITH THE RECOMMENDED S&C ANCHOR BOLTS AND FLEXIBLE CONDUCTOR CONNECTIONS AT ALL (6) TERMINAL PADS, ARE CAPABLE OF WITHSTANDING SEISMIC LOADING OF 2G GROUND ACCELERATION IN ANY DIRECTION, AS WELL AS PERFORMING AS INTENDED DURING SUCH LOADING AND AFTERWARDS.

REVISIONS	PRINT DESCRIPTION
DESCRIPTION	CUSTOMER: <u>AT</u>
NO. / QTY. FROM / TO PLATES	SAC S.E. NUM.
	☒ THIS PL.
	☐ AFTER.
	☐ THIS PL.
	☐ WILL R.
	☐ THIS IS
	REMARKS: <u>LOW</u>
	CERTIFIED, NO.

[illegible][illegible]

CUSTOMER ORDER NO. 49007096 CUSTOMER ORDER NO. 49007096 THIS POINT IS FOR YOUR APPROVAL. STOP SCHEDULE IS VOID IF APPROVAL IS RECEIVED. THIS POINT IS FOR YOUR RECORDS. MANUFACTURING IS PROCEEDING AND ANY CHANGES WILL BE NOTED IN A SHIPMENT DELAY. THIS IS A REVISED POINT FOR YOUR RECORDS. REMAINS LONG AT: _____ CERTIFIED BY: _____		CUSTOMER ORDER NUMBER: 49007096 S&C ITEM NUMBER: _____ SHEET 1 OF 3 12/24/2019 11:44:02 KJ5000004700V1
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☒	☒	00	☒	ADDED HYDRO ONE TITLE BLOCK.	☒	☒
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Hydro One Networks Inc.
ENGINEERING & CONSTRUCTION
SERVICES

Project	LONGLAC TS	NQV116
Contract No.		

115kV AREA
CIRCUIT SWITCHER

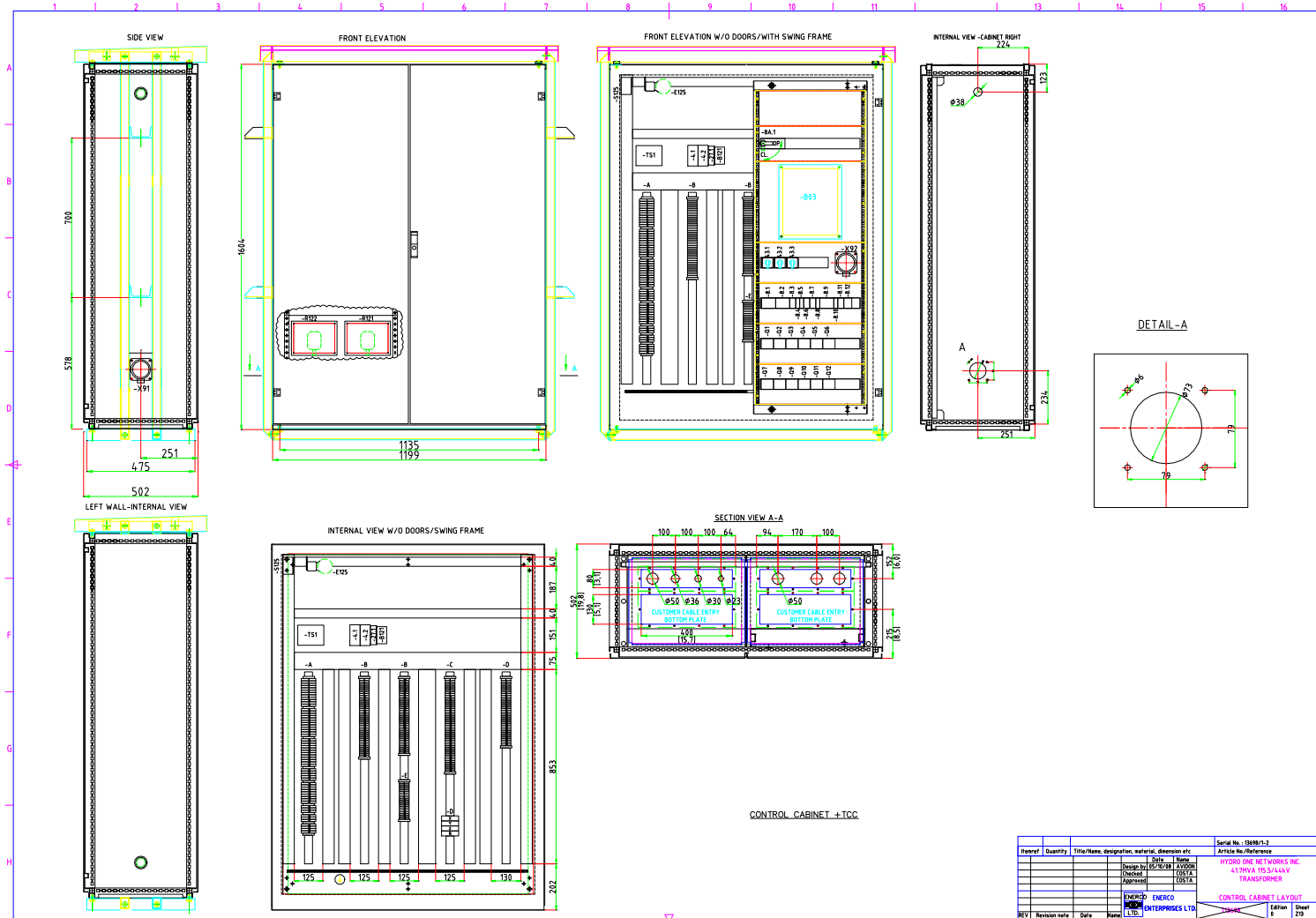
VIEW AND DETAILS ELECTRICAL ARRANGEMENT

U. Z604n208	designer	R. NG/T. BURMAZOVIC
V. Rial	design approved	ref. standard
2010/05/31	X. Shen	

sample number	substance
50014938	
scale	remarks
1:1	

Tracking No.	Inst. No.	Rec. No.
NQV116-D5S-51420-9001		00
microfilm no.		

NQV116-DSS-54410-9003



RELEASED FOR CONSTRUCTION
 REFER TO RECORD MANAGEMENT
 FOR SHEET STATUS

00	ADDED HYDRO ONE TITLE BLOCK & REF. DWG'S
01	HYDRO ONE NETWORKS INC. 115KV TSS/LAY TRANSFORMER
02	CONTROL CABINET LAYOUT
03	ENTERPRISES LTD
04	ENTERPRISES LTD
05	ENTERPRISES LTD
06	ENTERPRISES LTD
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100	ENTERPRISES LTD

TITLE BLOCK REV 07 - OCT 2002

B1 (707 x 1000)

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CLASS NO 37

CLASS NO 28

2006-111599-S10-911A0N

No.	1ST LINE	2ND LINE	3RD LINE	4TH LINE	NAME PLATE	FIG #	QTY	No.	1ST LINE	2ND LINE	NAME PLATE	FIG #	QTY
N1	TSS1				H	1	1						
N2	TSS2				H	1	1						
N3	SS1				H	1	2						
N4	SS2				H	1	2						
N5	535PL1				H	1	1						
N6	OPEN				A	1	2						
N7	CLOSED				A	1	2						
N8	ATS TROUBLE				B	1	1						
N9	AUTO/MAN				B	1	1						
N10	SS1 CONTROL				B	1	1						
N11	SS2 CONTROL				B	1	1						
N12	TSS1	AVAILABLE			D	2	1						
N13	TSS2	AVAILABLE			D	2	1						
N14	TEST TSS1	PHASE FAILURE			E	2	1						
N15	TEST TSS2	PHASE FAILURE			E	2	1						
N16	IQ TEST	SWITCH			D	2	1						
N17	IQ CONTROLLER	SUPPLY HEALTHY			C	2	1						
N18	SS1 CONTROL	SUPPLY HEALTHY			C	2	1						
N19	SS2 CONTROL	SUPPLY HEALTHY			C	2	1						
N20	GEN				H	1	2						
N21	DIESEL	GENSET			H	2	1						
N22	TSS1				I	1	1						
N23	TSS2				I	1	1						
N24	SS1				I	1	1						
N25	SS2				I	1	1						
N26	535PL1				I	1	1						
N27	GEN				I	1	1						
N28	DIESEL	GENSET			I	2	1						

FIRST LINE
SECOND LINE
THIRD LINE
FIG. 1

FIRST LINE
SECOND LINE
THIRD LINE
FIG. 3

FIRST LINE
SECOND LINE
THIRD LINE
FIG. 2

FIRST LINE
SECOND LINE
THIRD LINE
FOURTH LINE
FIG. 4

NAMEPLATES

A

0.75" x 1.5" BLACK LETTERS ON WHITE BACKGROUND, LAMACOD, FONT SIZE 0.5".

B

0.75" x 2.5" BLACK LETTERS ON WHITE BACKGROUND, LAMACOD, FONT SIZE 0.5".

C

1.0" x 3.0" BLACK LETTERS ON WHITE BACKGROUND, LAMACOD, FONT SIZE 3/8".

D

2.0" x 2.5" BLACK LETTERS ON WHITE BACKGROUND, LAMACOD, FONT SIZE 0.5".

E

2.0" x 3.0" BLACK LETTERS ON WHITE BACKGROUND, LAMACOD, FONT SIZE 0.5".

F

2.0" x 3.5" BLACK LETTERS ON WHITE BACKGROUND, LAMACOD, FONT SIZE 0.5".

H

2.0" x 2.5" BLACK LETTERS ON WHITE BACKGROUND, LAMACOD, FONT SIZE 1.5".

I

1.0" x 2.5" BLACK LETTERS ON WHITE BACKGROUND, LAMACOD, FONT SIZE 3/8".

NAMEPLATES TO HAVE ADHESIVE BACK - CHARACTERS TO BE 0.50" (12MM) HIGH

01

REVISION

Certified
As-Built

This document accurately reflects the manufacturing details of this product when it shipped from the factory.

THE INFORMATION ON THIS DOCUMENT IS CREATED BY EATON CORPORATION. IF IT IS REQUIRED IN COMPLIANCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT IS SUPPLIED.
LES RENSEIGNEMENTS CI-DESSUS ONT ÉTÉ ÉLABORÉS PAR EATON CORPORATION. ILS SONT D'USAGE UNIQUEMENT EN TOUTE CONFORMITÉ ET LEUR UTILISATION SE LIMITE AUX BESOINS POUR LESQUELS ILS ONT ÉTÉ ÉLABORÉS.

N° ID FEDERAL/
PRODUCT CODE

PG 140

REVISION / REVISION

2

DIM. DU DESSIN/
DWG. SIZE

A

BON DE DEMANDE / C.O.

CSMU019960

BON DE FABRICATION / S.O.

23E210700

FEUILLE / SHEET

11 DE 19

MILTON, ON

TITRE / NAMEPLATE DATA

TITLE HYDRO ONE - NETWORKS INC.

TYPE / TYPE

S3000

PICTON ATS

hydro one

Hydro One Networks Inc.

ENGINEERING & CONSTRUCTION SERVICES

LONGIAC TS

NOV116

208V AC
AUTO TRANSFER SWITCH
NAMEPLATE DATA

0014895

INTS

NOV116-DIS-65344-9007

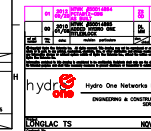
AS BUILT

REFER TO RECORDS MANAGEMENT FOR ASSEMBLY INSTRUCTIONS

A1 (594 x 841)

CLASS NO 29

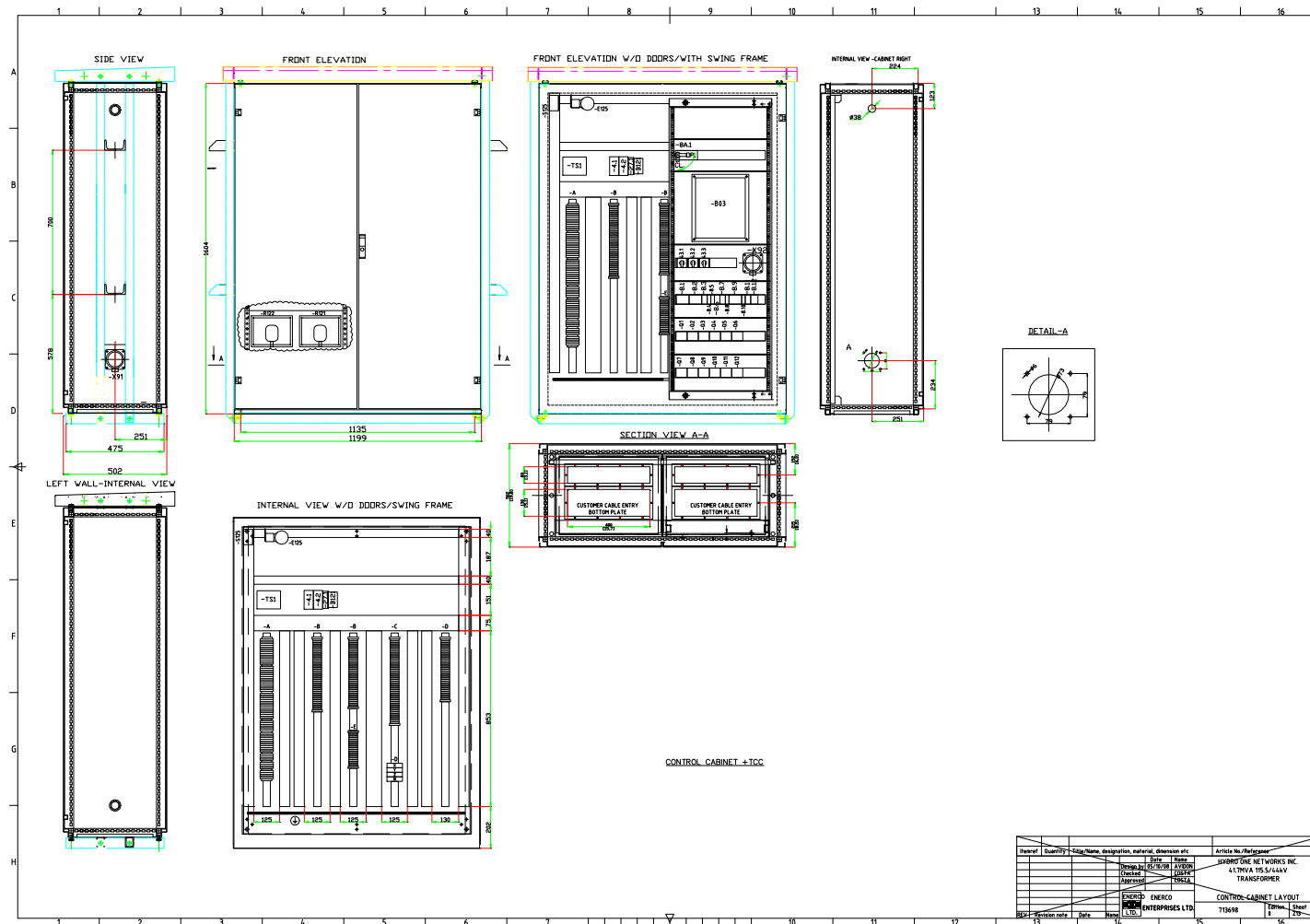
[illegible]



115.5/44kV TRANSFORMER
ENERCO 41.7MVA
TRANSFORMER ACCESSORIES
CONNECTION WIRING DIAGRAM

DESIGNED BY		DATE	APPROVED BY
REVISIONS		DATE	BY
NOTES		SCALE	
TITLE		SHEET NO.	

6006-116-DIS-65441-9009



CONTROL CABINET +TCC

Item	Quantity	Unit	Description, designation, material, dimension etc.	Article No./Reference
1	1	EA	HYDRO ONE NETWORKS INC. ULTRAVIA 115.5/44KV TRANSFORMER	719698
2	1	EA	ENERCO 41.7MVA TRANSFORMER	719698
3	1	EA	CONTROL CABINET LAYOUT	719698
4	1	EA	ENTERPRISES LTD.	719698

RELEASED FOR CONSTRUCTION
REFER TO RECORDS MANAGEMENT
FOR SIGNED ORIGINAL

01	2012	NTWK #50014894	25	00
00	2010	NTWK #50014895	DL	MM
01/08		ADDED HYDRO ONE	AP	
01/08		TITLEBLOCK		
Hydro One Networks Inc. Engineering & Construction Services 115.5/44KV TRANSFORMER ENERCO 41.7MVA CONTROL CABINET LAYOUT ELECTRICAL ARRANGEMENT Scale: 1:10 Sheet No. 01				

DESCRIPTION TYPE TECH. DATA	LOCATION APPARATUS PANEL, DESIGNATION	SYMBOL, CIRCUIT NO. / SHEET, NENPATH	DESCRIPTION TYPE	LOCATION APPARATUS PANEL, DESIGNATION	SYMBOL, CIRCUIT NO. / SHEET, NENPATH
TYPE: 042-301-02CS MAKE: QUALITROL 2 SPST 0.25A 250VDC	TANK +T501	-B01	TYPE: 213 MAKE: QUALITROL 1SPST 0.25A, 250V DIRECTIONAL SHIELD	TANK +T501	-B04
OIL LEVEL GAUGE	TANK +T501	-B02	TEMPERATURE RELAY TYPE: 133-08-03 MAKE: QUALITROL P1 100 Ohm RANGE: 0-150°C CONNECTOR STYLE: 3A01	TANK +T501	-B05
MODEL 12 MAKE:ABB ALARM SPST CONTACT 0.25A 120VAC TSP SPST CONTACT 0.5A 115VDC GAS DETECTOR RELAY	TANK +T501	-B02	TEMPERATURE TRANSMITTER MODEL: 73236806 MAKE:REINHAUSEN PT1000AT 0°C RANGE:-40 TO +130°C	TANK +T501	-B09
TYPE: ETMS09-100 MODEL: 12309-0002038 MAKE: QUALITROL PANEL MOUNT INPUT: TENSERUNIVERSAL 90-264VAC 47-63HZ 40-250VDC 10RELAY OUTPUTS 2 OF 10AMP CLIP ON CT INPUT/OUTPUT 1 OF 0-10V SCADA OUTPUT/TEMPERATURE 2 OF 0-10V SCADA OUTPUT/TEMPERATURE 1 OF 4-20mA SCADA OUTPUT/TEMPERATURE R232/R485/RS485 CONNECTIONS RS232/485/TIME OPTIC PORTS SWP COM. PROTOCOL TRANSFORMER MONITOR	TANK +T501	-B03	TYPE: R2504 MAKE:REINHAUSEN SELF RESET IN/5 NO CONTACT 0A-250VDC LTC PROTECTIVE RELAY	TANK +T501	-B10
			TYPE: 032-300-02CS MAKE: QUALITROL 2 SPST CONTACTS 0.5A 120VDC	TANK +T501	-B11
			OIL LEVEL GAUGE	TANK +T501	-B12
			TYPE: FZX 011 SPST 5A, 250VAC	CTRL CABINET +TCC	-B121
			THERMOSTAT	CTRL CABINET +TCC	-B121

DESCRIPTION TYPE TECH. DATA	LOCATION APPARATUS PANEL, DESIGNATION	SYMBOL, CIRCUIT NO. / SHEET, NENPATH	DESCRIPTION TYPE	LOCATION APPARATUS PANEL, DESIGNATION	SYMBOL, CIRCUIT NO. / SHEET, NENPATH
TYPE: C3-256-D MAKE: AVO/STATES CO. FRONT CONNECTED CLEAR COVER	CTRL CABINET +TCC	-T51	TYPE: FAZ-C10 MAKE: MOELLER 10A BREAKING CAPACITY 10/15KA AUX. CONT. BLOCK FAZ-KH11 MAX DP. VOLT 440V 50/60HZ MINIATURE CIRCUIT BREAKER	CTRL CABINET +TCC	-B4
MINIATURE TEST SWITCH	CTRL CABINET +TCC	-T51	TYPE: FAZ-C16 MAKE: MOELLER 16A BREAKING CAPACITY 10/15KA AUX. CONT. BLOCK FAZ-KH11 MAX DP. VOLT 440V 50/60HZ MINIATURE CIRCUIT BREAKER	CTRL CABINET +TCC	-B5
TYPE: HBL310SV MAKE: HUBBELL 20A 125V/60HZ WATERTIGHT SAFETY - SHROUD TWIST LOCK	CTRL CABINET +TCC	-X91	TYPE: FAZ-C15 MAKE: MOELLER 15A 3POLE BREAKING CAPACITY 10/15KA AUX. CONT. BLOCK FAZ-KH11 MAX DP. VOLT 440V 50/60HZ MINIATURE CIRCUIT BREAKER	CTRL CABINET +TCC	-B9
TYPE: FAZ-C15/3 MAKE: MOELLER 15A 3PH-IND-NC BREAKING CAPACITY 10/15KA AUX. CONT. BLOCK FAZ-KH11 MAX DP. VOLT 440V 50/60HZ MINIATURE CIRCUIT BREAKER	CTRL CABINET +TCC	-B1	TYPE: FAZ-C6/R-2C MAKE: MOELLER 6A DP BREAKING CAPACITY 10KA MAX DP. VOLT 500V/ 2 POLE MINIATURE CIRCUIT BREAKER	CTRL CABINET +TCC	-B12
TYPE: FAZ-C6 MAKE: MOELLER 10A 3PH-IND-NC BREAKING CAPACITY 10/15KA AUX. CONT. BLOCK FAZ-KH11 MAX DP. VOLT 440V 50/60HZ MINIATURE CIRCUIT BREAKER	CTRL CABINET +TCC	-B2			

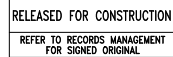
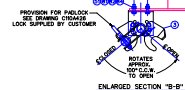
DESCRIPTION TYPE TECH. DATA	LOCATION APPARATUS PANEL, DESIGNATION	SYMBOL, CIRCUIT NO. / SHEET, NENPATH	DESCRIPTION TYPE	LOCATION APPARATUS PANEL, DESIGNATION	SYMBOL, CIRCUIT NO. / SHEET, NENPATH
STANDARD: ANSI C57-13 MAKE: HERAKE BUSHING CT	TANK +T501	-B13	TYPE: DSLV/2P MAKE: SYLVANIA 75W 120V 60HZ INCANDESCENT LAMP	CTRL CABINET +TCC	-C125
1600/5A 0.3B0.9	X1.2.3	-CT14.15.16	TYPE: P24 A-8671 MAKE: KREZ 1/8 HP 0.9A FLC 3 PHASE 208V 60/850 RPM VITH TERMINAL BOX	TANK +T501	-M12
STANDARD: ANSI C57-13 MAKE: HERAKE REVENUE METERING CT	TANK +T501	-B13	TYPE: M120-1.0 MAKE: MOELLER RANGE: 0.5-1.0A 14A MAGNETIC RELEASE AUX. CONTACT MEDIA: M12-PK20 COMMUNIC LINK R31/2-PK20 X2	CTRL CABINET +TCC	-C125
1200/5A 1.2B0.9	X1.2.3	-CT17.18	TYPE: M120-1.0 MAKE: MOELLER RANGE: 0.5-1.0A 14A MAGNETIC RELEASE AUX. CONTACT MEDIA: M12-PK20 COMMUNIC LINK R31/2-PK20 X2	CTRL CABINET +TCC	-C125
800/5A 0.6B1.8	X2	-CT19	SPACE HEATER	CTRL CABINET +TCC	-B121
TYPE: 3B000M-T MAKE: MESSKO PART NO: 686-21-05-106-00 SUPPLY: 120VAC	TANK +T501	-B13	DOOR ACTUATED SWITCH	CTRL CABINET +TCC	-B121
DEHYDRATING BREATHING	TANK +T501	-B13			
DEHYDRATING BREATHING	TANK +T501	-B13			

DESCRIPTION TYPE TECH. DATA	LOCATION APPARATUS PANEL, DESIGNATION	SYMBOL, CIRCUIT NO. / SHEET, NENPATH	DESCRIPTION TYPE	LOCATION APPARATUS PANEL, DESIGNATION	SYMBOL, CIRCUIT NO. / SHEET, NENPATH
TYPE: 3100 VNI 125A MAKE: MOELLER 3POLE WATER TIGHT VOLTAGE 145V 50/60HZ SWITCH-BLOCK/CONNECTOR BUSHING	CTRL CABINET +TCC	-B13	TYPE: 3100 VNI 125A MAKE: MOELLER 3POLE WATER TIGHT VOLTAGE 145V 50/60HZ SWITCH-BLOCK/CONNECTOR BUSHING	CTRL CABINET +TCC	-B13
TYPE: 3100 VNI 125A MAKE: MOELLER 3POLE WATER TIGHT VOLTAGE 145V 50/60HZ SWITCH-BLOCK/CONNECTOR BUSHING	CTRL CABINET +TCC	-B13	TYPE: 3100 VNI 125A MAKE: MOELLER 3POLE WATER TIGHT VOLTAGE 145V 50/60HZ SWITCH-BLOCK/CONNECTOR BUSHING	CTRL CABINET +TCC	-B13
TYPE: 3100 VNI 125A MAKE: MOELLER 3POLE WATER TIGHT VOLTAGE 145V 50/60HZ SWITCH-BLOCK/CONNECTOR BUSHING	CTRL CABINET +TCC	-B13	TYPE: 3100 VNI 125A MAKE: MOELLER 3POLE WATER TIGHT VOLTAGE 145V 50/60HZ SWITCH-BLOCK/CONNECTOR BUSHING	CTRL CABINET +TCC	-B13
TYPE: 3100 VNI 125A MAKE: MOELLER 3POLE WATER TIGHT VOLTAGE 145V 50/60HZ SWITCH-BLOCK/CONNECTOR BUSHING	CTRL CABINET +TCC	-B13	TYPE: 3100 VNI 125A MAKE: MOELLER 3POLE WATER TIGHT VOLTAGE 145V 50/60HZ SWITCH-BLOCK/CONNECTOR BUSHING	CTRL CABINET +TCC	-B13
TYPE: 3100 VNI 125A MAKE: MOELLER 3POLE WATER TIGHT VOLTAGE 145V 50/60HZ SWITCH-BLOCK/CONNECTOR BUSHING	CTRL CABINET +TCC	-B13	TYPE: 3100 VNI 125A MAKE: MOELLER 3POLE WATER TIGHT VOLTAGE 145V 50/60HZ SWITCH-BLOCK/CONNECTOR BUSHING	CTRL CABINET +TCC	-B13

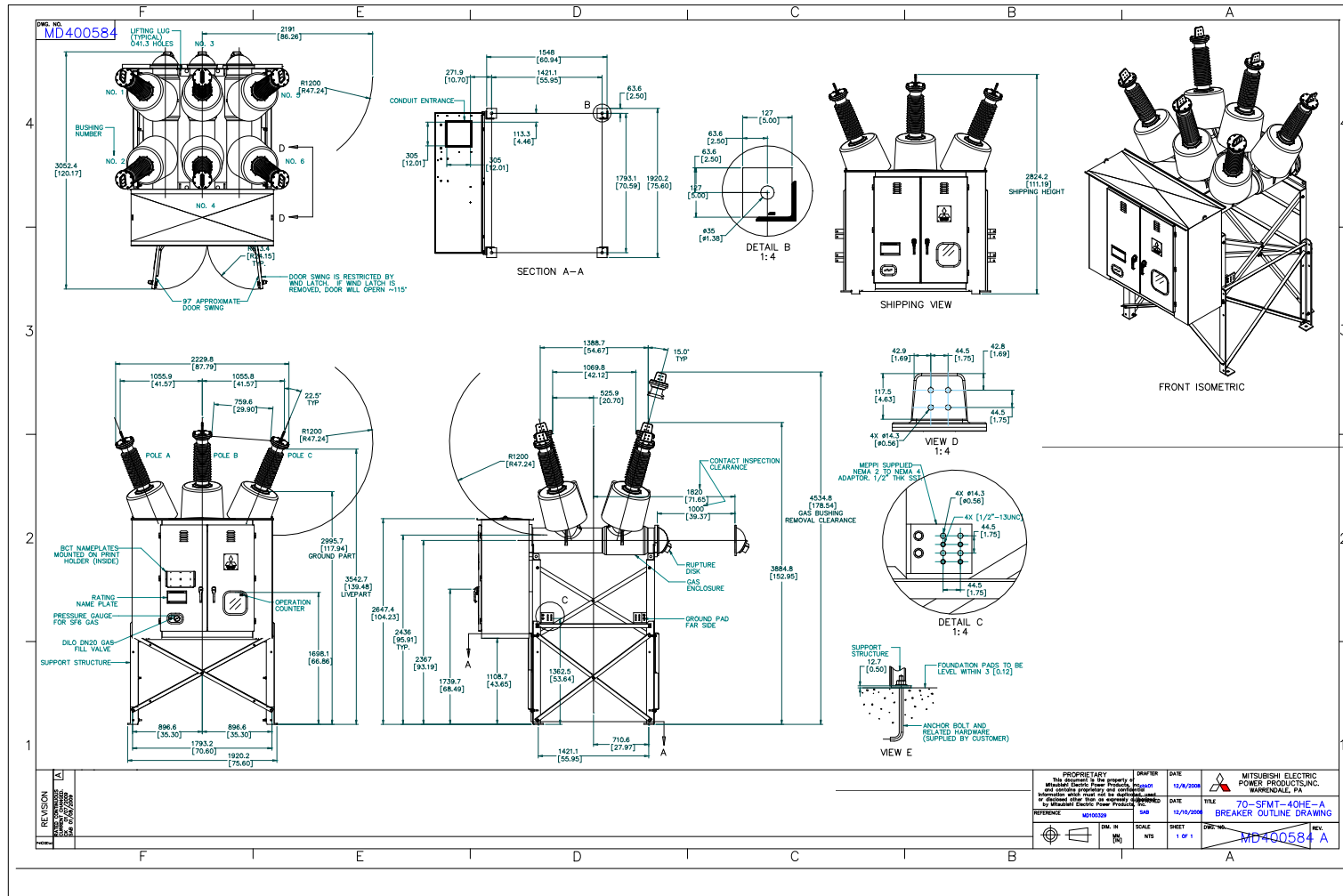
B1 (707 x 1000)

AS BUILT
REFER TO RECORDS MANAGEMENT
FOR DOWNSHIFTING

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04 2013 NTKW #0014887			
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230 2013 NTKW #0015113			
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232 20			

CLASS NO 39





RELEASED FOR CONSTRUCTION
REFER TO RECORDS MANAGEMENT
FOR SIGNED ORIGINAL

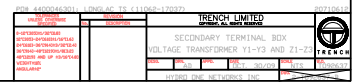
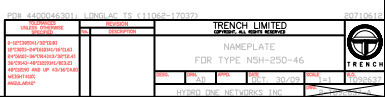
NO.	DATE	DESCRIPTION
00	12/10/2009	ISSUED FOR CONSTRUCTION

hydra one
Hydro One Networks Inc.
ENGINEERING & CONSTRUCTION SERVICES

Project: CONGLAC TS
Contract No: NOV116

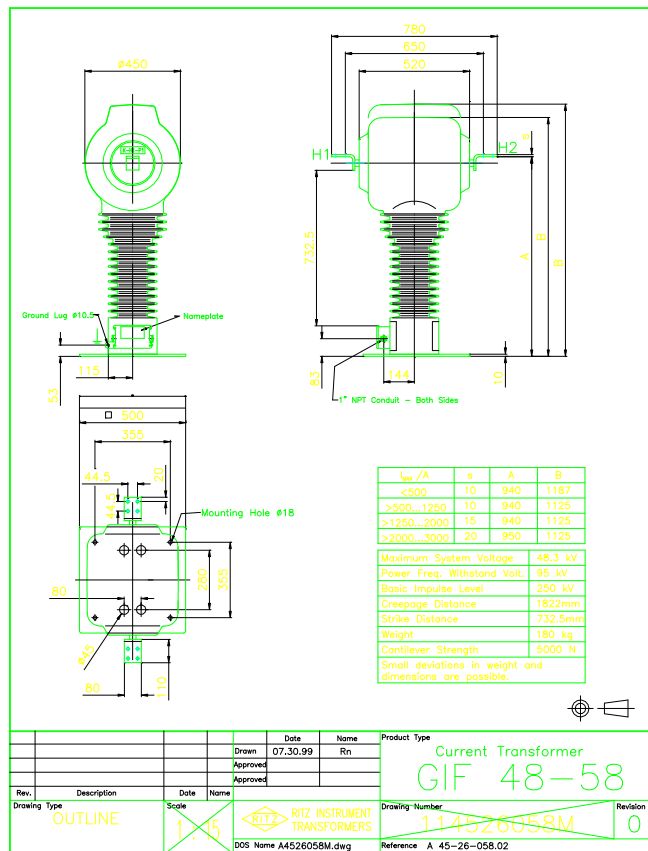
46kV AREA CIRCUIT BREAKER MITSUBISHI OUTLINE ELECTRICAL ARRANGEMENT

Rev: 1
Date: 2010/11/23
Design: V. Riga
Check: K. Shen
Scale: 1" = 1'
Sheet No: 00



00		ADDED HYDRO ONE TITLE BLOCK			
DATE	BY	DATE	REVISION	PROJECT NO.	ISSUE NO.
THIS DRAWING IS THE PROPERTY OF HYDRO ONE NETWORKS INC. IT IS TO BE USED FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. IT IS NOT TO BE REPRODUCED, COPIED, REPRODUCED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF HYDRO ONE NETWORKS INC.					
		Hydro One Networks Inc. ENGINEERING & CONSTRUCTION SERVICES			
TONGLAUGH TS				NOV116	
Title 46KV AREA CURRENT & VOLT. MTG. TRFR. PLAN, SECTIONS & DETAILS ELECTRICAL ARRANGEMENT					
DATE	DESIGNED BY		BY		
2001	jym/rm/ml		M. Standard		
HYDRO ONE NUMBER	APPROVED BY		DATE		
2001-4685	[Signature]		11/01/01		
PROJECT NUMBER	REVISION		DATE		
TS-116	1		11/01/01		
ISSUED SHOWING Drawing No. 116-DS-51640-9001					
				Scale	1" = 100'
				Sheet No.	0

RELEASED FOR CONSTRUCTION
REFER TO RECORDS MANAGEMENT FOR SIGNED ORIGINAL



mf roll number	rev. no.	date:	revision	particulars	dwn	chld	Eng. App'd
	00			ADDED HYDRO ONE TITLE BLOCK.			

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ENGINEERING & CONSTRUCTION SERVICES

Project: **LONGGLAC TS** NQV116
Contract No.

Title: **46kV AREA CURRENT TRANSFORMER PLAN, SECTION AND DETAILS ELECTRICAL ARRANGEMENT**

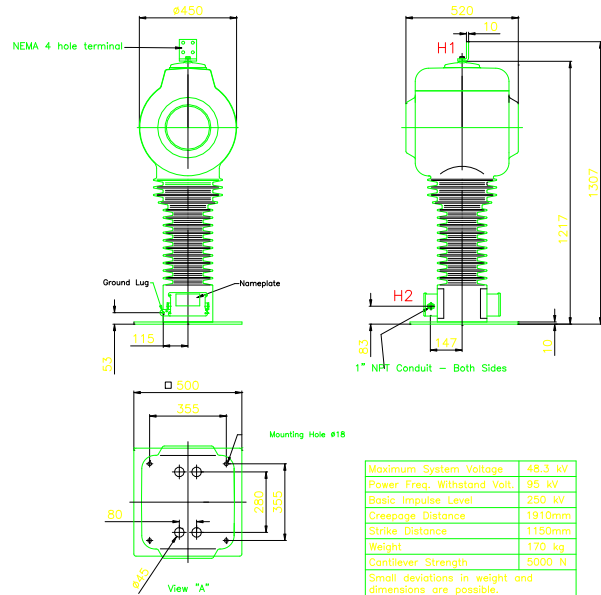
dwn **D. Zobenica** designed by **R.NG/E.BURNAZOVIC**
chld **V. Risi**
date **2010/11/23** design approved **X. Shen** ref. Standard
network number **50014958** subconsultant
scale **1:15** remarks

Drawing No. **NQV116-D2S-51647-9001** Sheet No. **00** Rev. No.

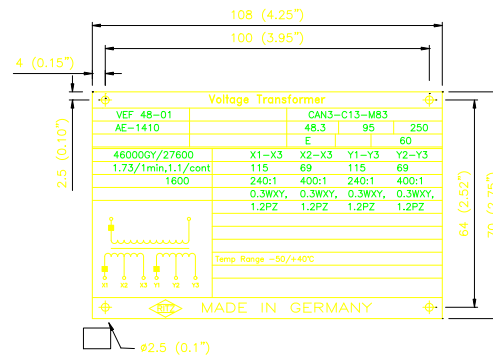
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CLASS NO 39

NQV116-D2S-51648-9001



Rev.	Description	Date	Name	Drawn	Date	Name	Product Type	Revision
1	Added Dims	11.03.09	CSF	Approved	08.06.99	Rn	Voltage Transformer VEF 48-01	1
Drawing Type		Scale	RITZ INSTRUMENT TRANSFORMERS		Drawing Number		Revision	
OUTLINE		1:15	DOS Name V4531001M.dwg		124531001M		1	
			Reference		V 45-31-001.02			



Rev.	Description	Date	Name	Drawn	Date	Name	Product Type	Revision
2	Added OVF	11.03.09	CSF	Approved	05.12.06	DQ	Voltage Transformer VEF 48-01	2
1	COUNTRY OF ORIGIN	9.6.07	IH	Approved				
Drawing Type		Scale	RITZ INSTRUMENT TRANSFORMERS		Drawing Number		Revision	
NAMEPLATE		1:1	DOS Name n12-130082.dwg		N12-30082		2	
			Reference					

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00	ADDED HYDRO ONE TITLE BLOCK.			
ml	rev.	date:	revision	particulars
number	no.		den	Eng. App'd
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hydro one		Hydro One Networks Inc.		
ENGINEERING & CONSTRUCTION SERVICES				

Project	LONGGLAC TS	NQV116
Contract No.		
Title:	46kV AREA VOLTAGE TRANSFORMER PLAN, SECTION AND DETAILS ELECTRICAL ARRANGEMENT	
dwn	D. Zobenica	designed by
chld	V. Risi	R.NG/E.BURNAZOVIC
date	yyyy/mm/dd	design approved
2010/11/23	X. Shen	ref. Standard
network number	subconsultant	
50014958		
scale	remarks	
AS SHOWN		
Drawing No.	Sheet No.	Rev. No.
NQV116-D2S-51648-9001		00

CLASS NO 39

A2 (420 x 594)

millimetres

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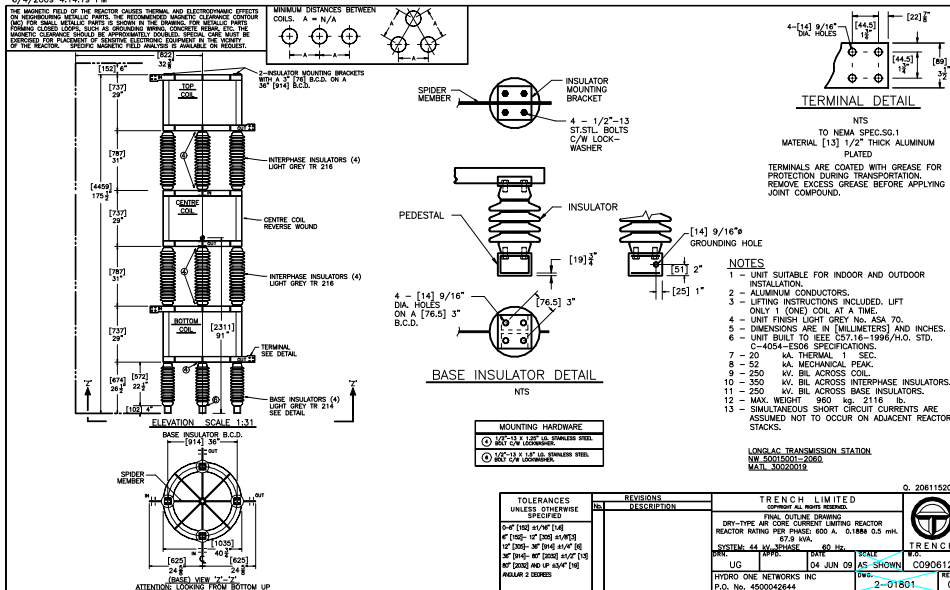
200

250

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microfilm no.

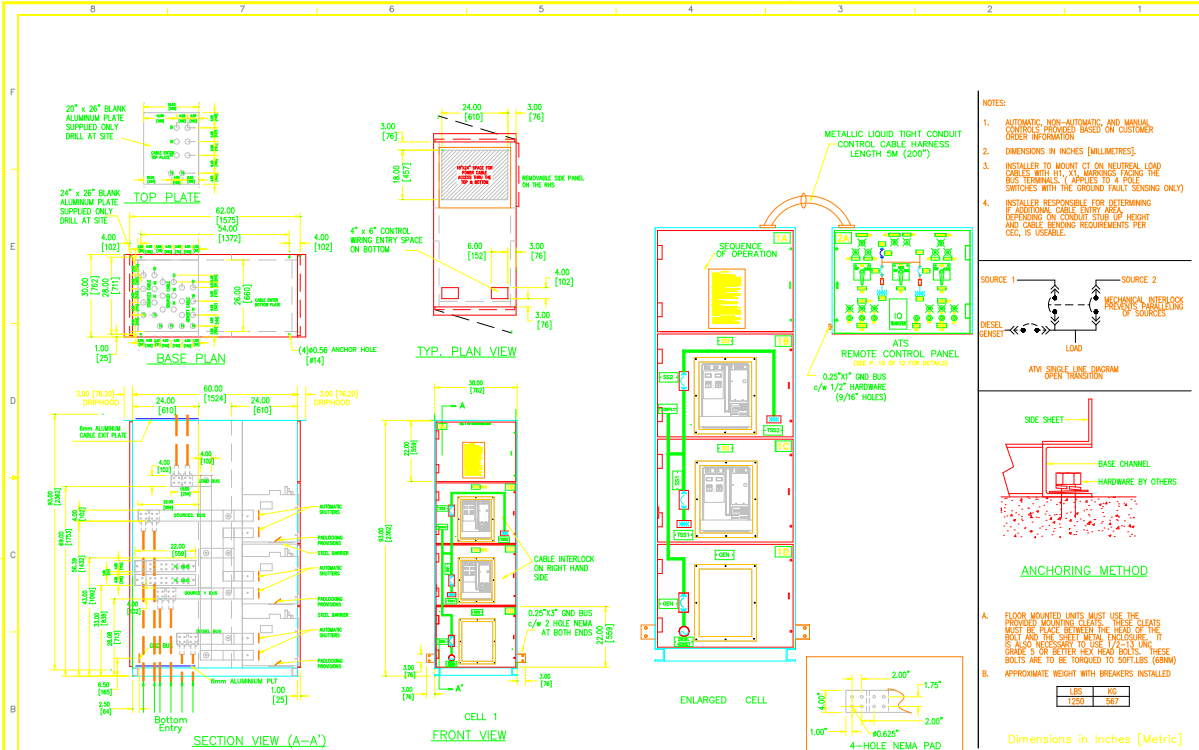
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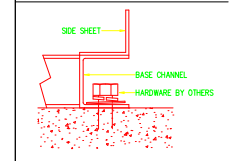
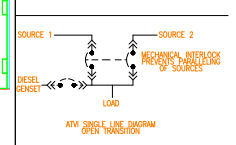
RELEASED FOR CONSTRUCTION
REFER TO RECORDS MANAGEMENT
FOR SIGNED ORIGINAL

195		ADDED HYDRO ONE TITLE BLOCK	
DATE	BY	REVISION	DESCRIPTION
06/04/09	NTS	1	ADDED HYDRO ONE TITLE BLOCK
Hydro One Networks Inc. ENGINEERING & CONSTRUCTION SERVICES LONGLAC TS NOV116 Contract No. 46kV AREA REACTOR 600A VIEW AND DETAILS ELECTRICAL ARRANGEMENT DESIGNED BY: [Signature] CHECKED BY: [Signature] DATE: 06/04/09 SCALE: AS SHOWN PROJECT NO: 5000148508 REV: 0 NOV116-D1S-51657-9002			

NOV116-D15-53530-9001



- NOTES:
1. AUTOMATIC, NON-AUTOMATIC AND MANUAL CONTROLS PROVIDED BASED ON CUSTOMER ORDER INFORMATION
 2. DIMENSIONS IN INCHES [MILLIMETERS]
 3. INSTALLER TO MOUNT CT ON NEUTRAL LOAD CABLES WITH HT, XT, MARKINGS FACING THE BUS TERMINALS. (APPLIES TO 4 POLE SWITCHES WITH THE GROUND FAULT SENSING ONLY)
 4. INSTALLER RESPONSIBLE FOR DETERMINING IF ADDITIONAL CABLE ENTRY AREA, DEPENDING ON CONDUIT SIZE UP HEIGHT AND CABLE BUNDLING REQUIREMENTS PER NEC, IS USABLE.



ANCHORING METHOD

- A. FLOOR MOUNTED UNITS MUST USE THE PROVIDED MOUNTING CLEATS. THESE CLEATS MUST BE PLACED BETWEEN THE HOLES OF THE BODY AND THE SHEET METAL ENCLOSURE. IT IS ALSO RECOMMENDED TO USE 1/2" DIA. 5 OR BETTER HEX HEAD BOLTS. THESE BOLTS ARE TO BE TIGHTENED TO 20 FT-LBS (27 NM).
- B. APPROXIMATE WEIGHT WITH BREAKERS INSTALLED

150	150
1250	507

Dimensions in inches [Metric]

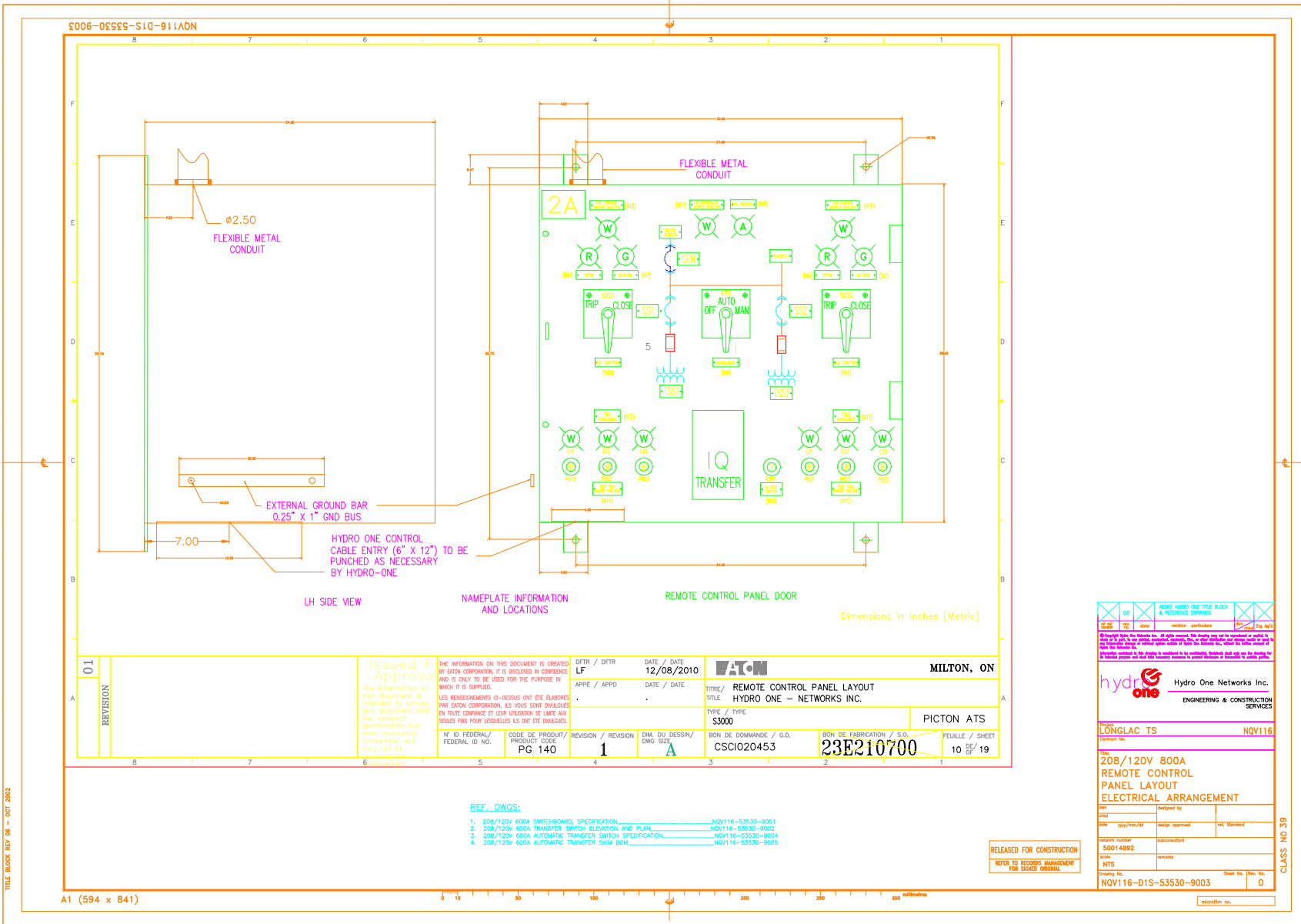
01 REVISION	THE INFORMATION ON THIS DOCUMENT IS CREATED BY EATON CORPORATION. IT IS DISCLOSED IN CONFERENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT IS SUPPLIED. LES RENSEIGNEMENTS CI-DESSUS ONT ÉTÉ ÉLABORÉS PAR EATON CORPORATION. ILS SONT SONT DIVULGUÉS EN CONFÉRENCE ET LEUR UTILISATION SE LIMITE AUX SEULES FINS POUR LESQUELLES ILS ONT ÉTÉ DIVULGUÉS.	DTR / DTR LF	DATE / DATE 12/08/2010	EATON MILTON, ON
		APPE / APPE LF	DATE / DATE	
		TITRE / TITLE TRANSFER SWITCH ELEVATION AND PLAN VIEW HYDRO ONE - NETWORKS INC.		PICTON ATS
		TYPE / TYPE S3000		
		BON DE DEMANDE / G.O. CSCIO20453		FEUILLE / SHEET 3 DE 19
		BON DE FABRICATION / S.O. 23E210700		
		N° ID FEDERAL / FEDERAL ID NO. PG 140		
		REVISION / REVISION 1		
		DIM. DU DESSIN / DWG SIZE A		

- REF. DWGS:
1. 208/120V 600A SWITCHBOARD, SPECIFICATION NOV116-53530-9001
 2. 208/120V 600A REMOTE CONTROL PANEL LAYOUT NOV116-53530-9003
 3. 208/120V 600A AUTOMATIC TRANSFER SWITCH SPECIFICATION NOV116-53530-9004
 4. 208/120V 600A AUTOMATIC TRANSFER SKM BOW NOV116-53530-9005

RELEASED FOR CONSTRUCTION
REFER TO RECORDS MANAGEMENT
FOR SIGNED ORIGINAL

ADD HYDRO ONE TITLE BLOCK & REFERENCE DRAWINGS	NOV116
Hydro One Networks Inc. ENGINEERING & CONSTRUCTION SERVICES	
LONGGLAC TS	NOV116
208/120V 800A TRANSFER SWITCH ELEVATION AND PLAN ELECTRICAL ARRANGEMENT	
designed by	designed by
checked by	checked by
drawn by	drawn by
scale	scale
date	date
NOV116-D15-53530-9002	0

CLASS NO 39



CATALOGUE NUMBER:	ATVIMGE30800BSC
TYPE (A OR B):	A
AMPERES:	800A
VOLTAGE:	208V 3 PHASE 60HZ
POLES:	3
WIRES:	5
I.R. (KA SYM):	42 KA
CURRENT RATING:	100%
CSA APPROVED C22.2 #31	

2000

01	REVISION	The information on this document is intended to convey and document that the contract specification has been accurately interpreted and may not be available.	Issued For Approval The information on this document is created by EXTON CORPORATION. IT IS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSES OF WHOLESALE SUPPLY. LES RECHERCHES O-DESSEIN ONT ÉTÉ ELABORÉES PAR EXTON CORPORATION. LES RÉSULTATS SONT DIVULGUÉS EN TOUTE CONFIANCE ET L'UTILISATION SE LIMITE AUX VENTES POUR LOUABLES À ONI DES BRASERS.	DPTR / DTPR LF	DATE / DATE 12/08/2010		MILTON, ON
				APPE / APPO	DATE / DATE		
				REVISION / REVISION	QML DU DESSIN/ DWG SIZE	TYPE / TYPE S3000	FORM OF FABRICATION / S.O. FORM OF MANUFACTURE / G.O. CSCIO20453
				FEDERAL ID NO. PG 140	1	A	23E210700 12 DE / 19

1.	208/120V 600A SWITCHBOARD, SPECIFICATION	NQV116-53530-9001
2.	208/120V 600A TRANSFER SWITCH ELEVATION AND PLAN	NQV116-53530-9002
3.	208/120V 600A REMOTE CONTROL PANEL LAYOUT	NQV116-53530-9003
4.	208/120V 600A AUTOMATIC TRANSFER SWITCH SPECIFICATION	NQV116-53530-9004

RELEASED FOR CONSTRUCTION
REFER TO RECORDS MANAGEMENT
FOR SIGNED ORIGINAL

00		ADD: HYDRO ONE TITLE BLOCK & REFERENCE DRAWINGS		
01	02	03	04	05
description	date	revision	particulars	by (signature)
By signature field, the Engineer, on all signed matters, shall indicate only his or her position or position in relation to the work and not any specific contents, quantity, date, or other details and shall indicate on the drawings the location of the work. The Engineer shall not be responsible for the work of the contractor. By signature field, the Engineer shall indicate the location of the work. The Engineer shall not be responsible for the work of the contractor.				



Hydro One Networks Inc.

ENGINEERING & CONSTRUCTION SERVICES

Project LONGGLAC TS Contract No.	NQV116
120V 800A AUTOMATIC TRANSFER BILL OF MATERIALS ELECTRICAL ARRANGEMENT	
Rev 001 0001/rev/01	design by design approved hf. Standart
revision 5001/4892	submittal sheet
circle NTS	remarks
NQV116-D1S-55350-9005	
	Sheet No. Rev. No.
	0

1. NQV116-53580-9002_____208/120V 600A POW-R-LINE C CUSTOM PANEL PANEL AC15/1/S
2. NQV116-53580-9003_____208/120V 600A POW-R-LINE C CUSTOM PANEL PANEL AC20/1/S
3. NQV116-56180-0001_____208/120V ATS BUILDING, PLAN, ELEVATIONS AND DETAILS

CLASS NO 39

2006-08-09-0001

PURCHASE ORDER: 4400084786 PANEL DESIGNATION: AC15/1/S
 NAMEPLATE: 535PL2; AC MAIN PANEL; 120/208V 600A
 PANEL RATING
 I.C. ASYM: 18KA FREQ.: 60HZ
 VOLTAGE: 120/208V AMPERAGE: 600A PHASE : 3 WIRE: 5 (3W + G & N)

PANEL TYPE PRL4
 BUS BAR: COPPER
 INCOMING: TOP
 ENCLOSURE NEMA 1

INCOMING SUPPLY
 MAIN LUGS: 4 HOLE NEMA 1/PHASE
 NEUTRAL LUGS: 4 HOLE NEMA
 GND LUGS: 1X 2/0MCM CU

SPEC REQUIREMENTS

BREAKER LOCKS
 CONTACT VIEWING WINDOWS
 ON ALL BREAKERS
 ENCL. PAINTED ASA-61
 DOOR-IN-DOOR HINGED TRIM

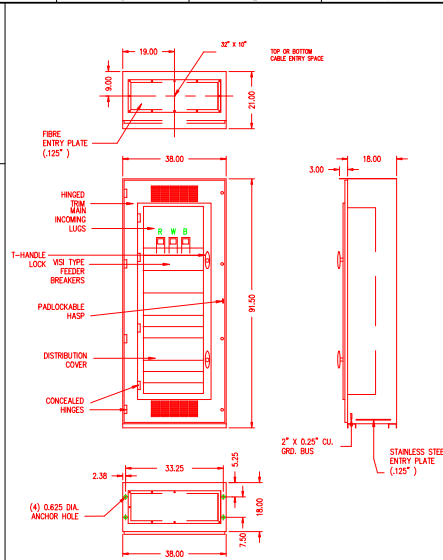
OPTIONAL EQUIPMENT

HYDRO NAMEPLATE (ALUM)
 6" X 2" WHITE WITH BLACK TEXT
 AS PER NAMEPLATE ABOVE

ENTRY PLATE (TOP) FIBRE
 ENTRY PLATE (BTM) STAINLESS

DISTRIBUTION LAYOUT

1X	SPACE	SPACE
2X		
3X		
4X		
5X		
6X		
7X		
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39X		
40X		



Dimensions in inches [Metric]

01	2	CHANGES MADE PER 2/3/11 REQUEST ED WHITE 2/8/11	Issued For Approval	DATE 01/25/11	ED WHITE	DATE	FILENAME 24B868000	TYPE POW-R-Line C CUSTOM PANEL	AC15/1/S
THE INFORMATION ON THIS DOCUMENT IS CHECKED BY CUTLER-HAMMER. IT IS DISCLOSED IN CONFERENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT IS SUPPLIED. LES RENSEIGNEMENTS CI-DESSUS ONT ETE VERIFIES PAR CUTLER-HAMMER. ILS SONT DONNES EN CONFERENCE ET SONT A UTILISER SEULEMENT A L'INTENTION DE L'UTILISATION POUR LAQUELLE ILS ONT ETE FOURNIS.			FEDERAL ID NO. PG 240 PRODUCT CODE REVISION 2 DWG SIZE A		DATE 01/25/11 APPD G.D. CSMU022111		SHEET 2 OF 3 24B868000		

REF. DWG:

- NOV116-53580-9001 208/120V 600A POW-R-LINE C CUSTOM PANEL PANEL AC15/1/S
- NOV116-53580-9003 208/120V 600A POW-R-LINE C CUSTOM PANEL PANEL AC20/1/S
- NOV116-56180-0001 208/120V ATS BUILDING, PLAN, ELEVATIONS AND DETAILS

RELEASED FOR CONSTRUCTION
 REFER TO RECORDS MANAGEMENT
 FOR SIGNED ORIGINAL

01	00	ADDED HYDRO ONE TITLE BLOCK & REFERENCE DRAWINGS
01	00	ADDED HYDRO ONE TITLE BLOCK & REFERENCE DRAWINGS
hydro one Hydro One Networks Inc. ENGINEERING & CONSTRUCTION SERVICES		
Project: 208/120V 600A Contract No.: NOV116		
Title: 208/120V 600A POW-R-LINE C CUSTOM PANEL PANEL AC15/1/S ELECTRICAL ARRANGEMENT		
Date: 01/25/11 Drawn by: yyyz/mm/ld Release number: 50014982 Title: NTS	Design approved: mt, Standard Subcontract: Remarks: Drawing No.: NOV116-D1S-53580-9002 Sheet No.: 0	CLASS NO 39

A1 (594 x 841)

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 millimetres

microfilm no.

NOV116-D1S-53580-9003

PURCHASE ORDER: 4400084786 PANEL DESIGNATION: AC20/1/S
NAMEPLATE: PANEL 535PLSS; 120/208V 800A
PANEL RATING
I.C. ASYM: 18KA FREQ.: 60HZ
VOLTAGE: 120/208V AMPERAGE: 800A PHASE : 3 WIRE: 5 (3W + G & N)

PANEL TYPE	PRL4
BUS BAR:	COPPER
INCOMING:	TOP
ENCLOSURE	NEMA 1

INCOMING SUPPLY

MAIN LUGS: 4 HOLE NEMA 1/PHASE
NEUTRAL LUGS: 4 HOLE NEMA
GND LUGS: 1X 2/0 MCM CU

SPEC REQUIREMENTS

ENCL. PAINTED ASA-61

DOOR-IN-DOOR HINGED TRIM

OPTIONAL EQUIPMENT
HYDRO NAMEPLATE (ALUM)
6" X 2" WHITE WITH BLACK TEXT
AS PER NAMEPLATE ABOVE

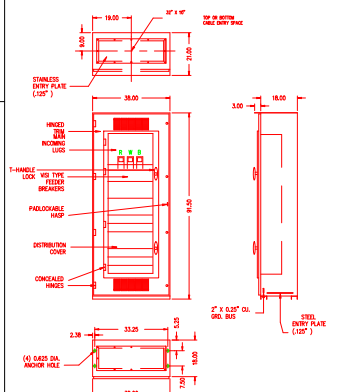
ENTRY PLATE (TOP)	STAINLESS
ENTRY PLATE (BTM)	N/A

100

1. *Journal of the American Medical Association*, 2000; 284: 2669-2674.

DISTRIBUTION LAYOUT

1X		
2X		
3X		
4X		
5X		
6X		
7X		
8X		
9X		
10X		
11X		
12X		
13X	400 AMP FUSIBLE SWITCH	
14X	(750 MCM LOAD LUGS STANDARD)	
15X		
16X		
17X		
18X		
19X		
20X		
21X	400 AMP SPACE	
22X		
23X		
24X		
25X		
26X		
27X		
28X		
29X		
30X		
31X	400 AMP FUSIBLE SWITCH	
32X	(750 MCM LOAD LUGS STANDARD)	
33X		
34X		
35X		
36X		
37X	100AMP	100AMP
38X	SPACE	SPACE
39X		
40X		

[illegible]

REF. DWG:

1. NGV116-53580-9001 _____ 208/120V 600A POW-R-LINE C CUSTOM PANEL PANEL AC15/1/S
2. NGV116-53580-9002 _____ 208/120V 600A POW-R-LINE C CUSTOM PANEL PANEL AC15/1/S
3. NGV116-56180-0001 _____ 208/120V ATS BUILDING, PLAN, ELEVATIONS AND DETAILS

RELEASED FOR CONSTRUCTION
REFER TO RECORDS MANAGEMENT
FOR SIGNED ORIGINAL

00	HYDRO ONE ONE TIME BLOCK & RESERVING CHARGES				
DATE	TO	DATE	NUMBER	PAYMENT	BY
Hydro One Networks Inc. is pleased to provide you with this statement of account. This statement is for your information only and does not constitute an offer or a contract. The only contract between you and Hydro One Networks Inc. is the contract of service that you have entered into with us. This statement is subject to the terms and conditions of the contract of service. If you have any questions or concerns, please contact your account manager or call 1-800-387-0000.					
hydro one			Hydro One Networks Inc.		
			ENGINEERING & CONSTRUCTION SERVICES		
LONGLAC TS					NOV11
Invoice No.					
208/120V 500A					
Pow-R-Line C CUSTOM PANEL					
PANEL AC20/1/S					
ELECTRICAL ARRANGEMENT					
DATE	DESIGNED BY				
DATE	DESIGN APPROVED		MR. BORDO		
INVOICE NUMBER	ALLOCATION				
90014892					
FROM	TO				
NTS	REVISED				
PROJECT			SHEET NO. OF NO.		
NOV11E-D1S-53580-9003			0		

CLASS NO 39

A1 (594 x 841)



- WEIGHTS:

CUSTOMER : HYDRO ONE
HYDRO ONE BPO NUMBER 44897 REL. 7
SERIAL No. : 13698/

REFERENCE DWG'S:

NQV116-54410-9002--115KV AREA MAIN TRFR.
GENERAL ASSEMBLY E.A.

NQV116-54410-9003--115KV AREA MAIN TRFR.
C. CABINET LAYOUT E.A.

GO	TITLE BLOCK	ADDED HYDRO ONE	TITLE BLOCK	AND	REF. ONE'S						
ref. and	ref. and	date	revision	particulars							

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Hydro One Networks Inc.
ENGINEERING & CONSTRUCTION SERVICES

Project	LONGLAC TS	NQV116
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Contract No.	
Price	

115kV AREA

MAIN TRANSFORMER

VIEW AND DETAILS
ELECTRICAL ARRANGEMENT

ELECTRICAL ARRANGEMENT		
for	designed by	

date		
date	year/mo./da	design approved
		ref. standard

release number	subsequence
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50014938	
scale	percentage

1:30	
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Drawing No.	Issue No.	Rev.	Rev.
NQV116-DOS-54410-9001			0

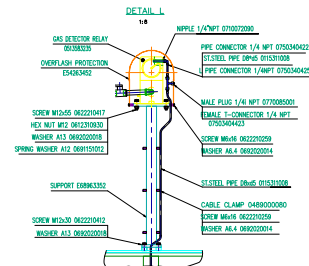
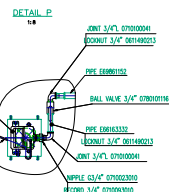
microfilm, etc.

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NOV116-54410-9001--115KV AREA MAIN TRFR.
VIEW & DETAILS E.A.

NOV116-54410-9003--115KV AREA MAIN TRFR.
C. CABINET LAYOUT E.A.



1. PIPING ASSEMBLY - ACCORDING TO DRAWING 13698-1110
2. ASSEMBLY REMOTE CONSERVATOR SUPPORT - ACCORDING TO DRAWING 13698-1120

FINISH	MATERIAL	WEIGHT	Scale 1:250	TRANSFORMER 41.7MVA, 115.5/44kV GENERAL ASSEMBLY DRAWING NO 13698-1100	Form A1
DATE	SIGNATURE	ISSUED	PAGE: 1		
04.04.2019		Uspakov	DESIGNED		
04.04.2019		A. Shermay	APPROVED		

RELEASED FOR CONSTRUCTION

REFER TO RECORDS MANAGEMENT
FOR SIGNATURE PROGRAM

XX	00	XX	ADDED HYDRO ONE TITLE BLOCK & REF. page 10	XX	XX
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[illegible]

Hydro One Networks Inc.
ENGINEERING & CONSTRUCTION

Project	LONGLAC TS	NQY1
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Contract No.	
City	

115kV AREA

MAIN TRANSFORMER GENERAL ASSEMBLY

GENERAL ASSEMBLY ELECTRICAL ARRANGEMENT

ELECTRICAL ARRANGEMENT	
des. D. Zobenica	designed by

date	V. Riel	R.RO/L.BURNAZOVIC
size	yyyy/mm/dd	design approved
		ref. standard

2016/11/16	X. Silven	
relatör number	subconsulent	

50014958	
scale	retroactive

1:30	
Grading No.	Sheet No. Rev. No.

NQV116-DOS-54410-9002	00
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recluse. ca.
