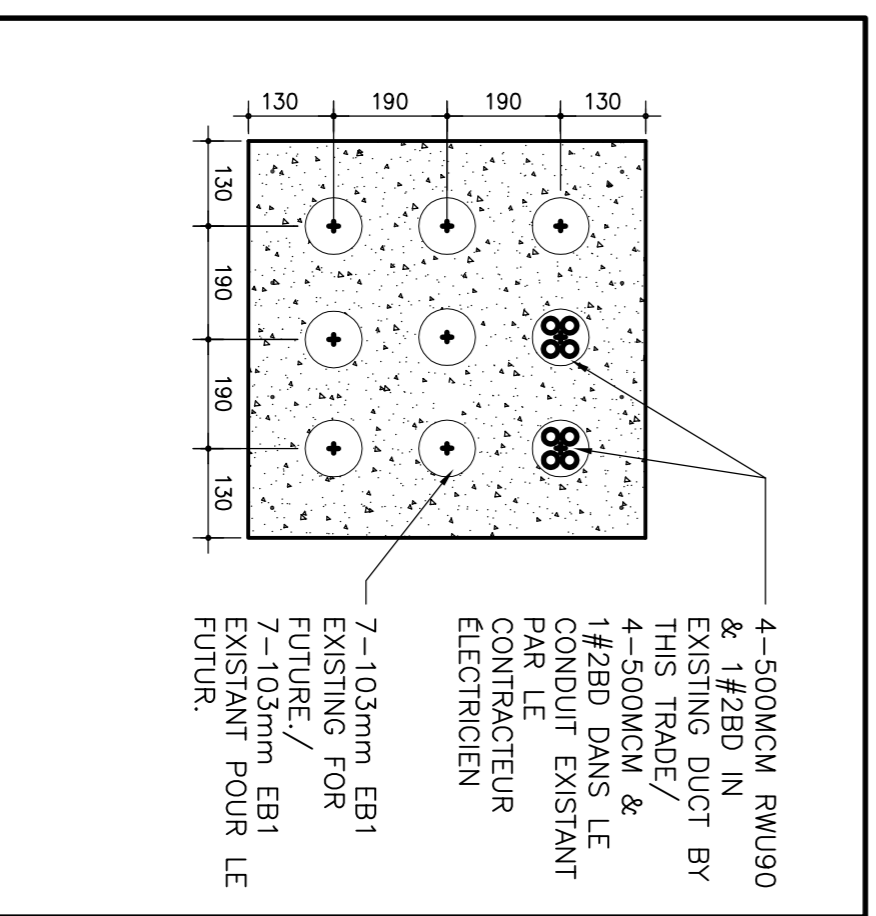
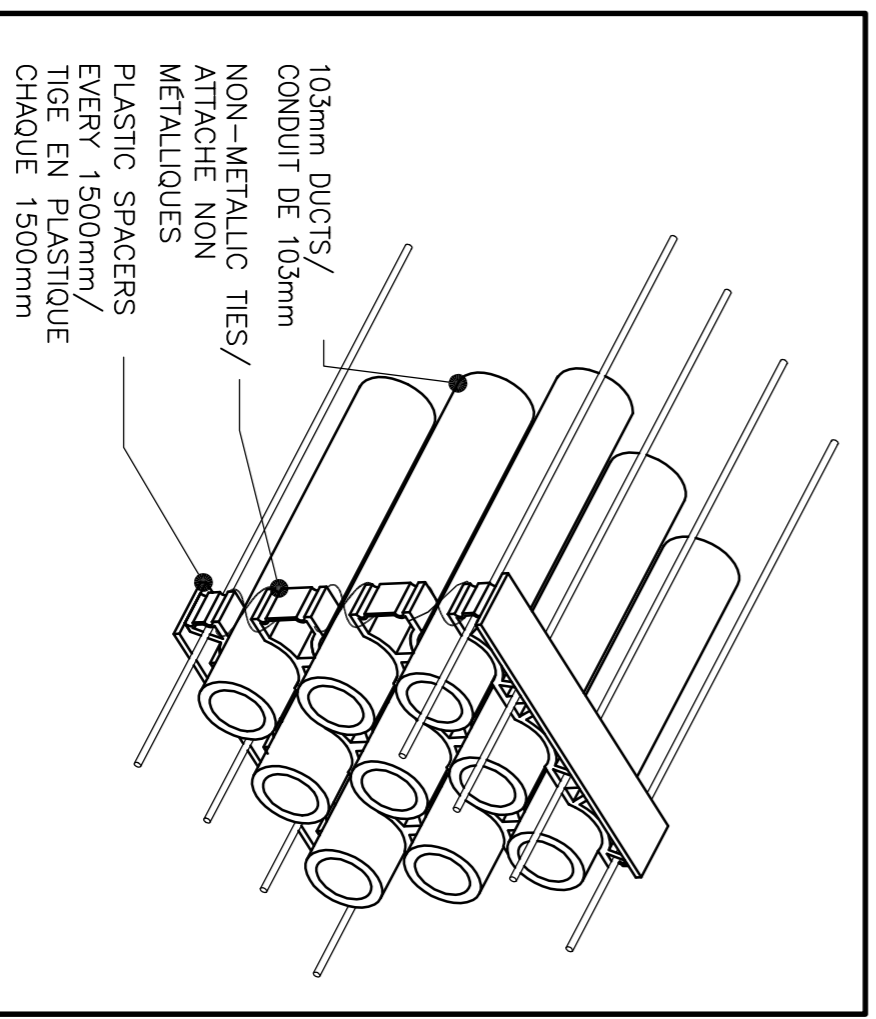


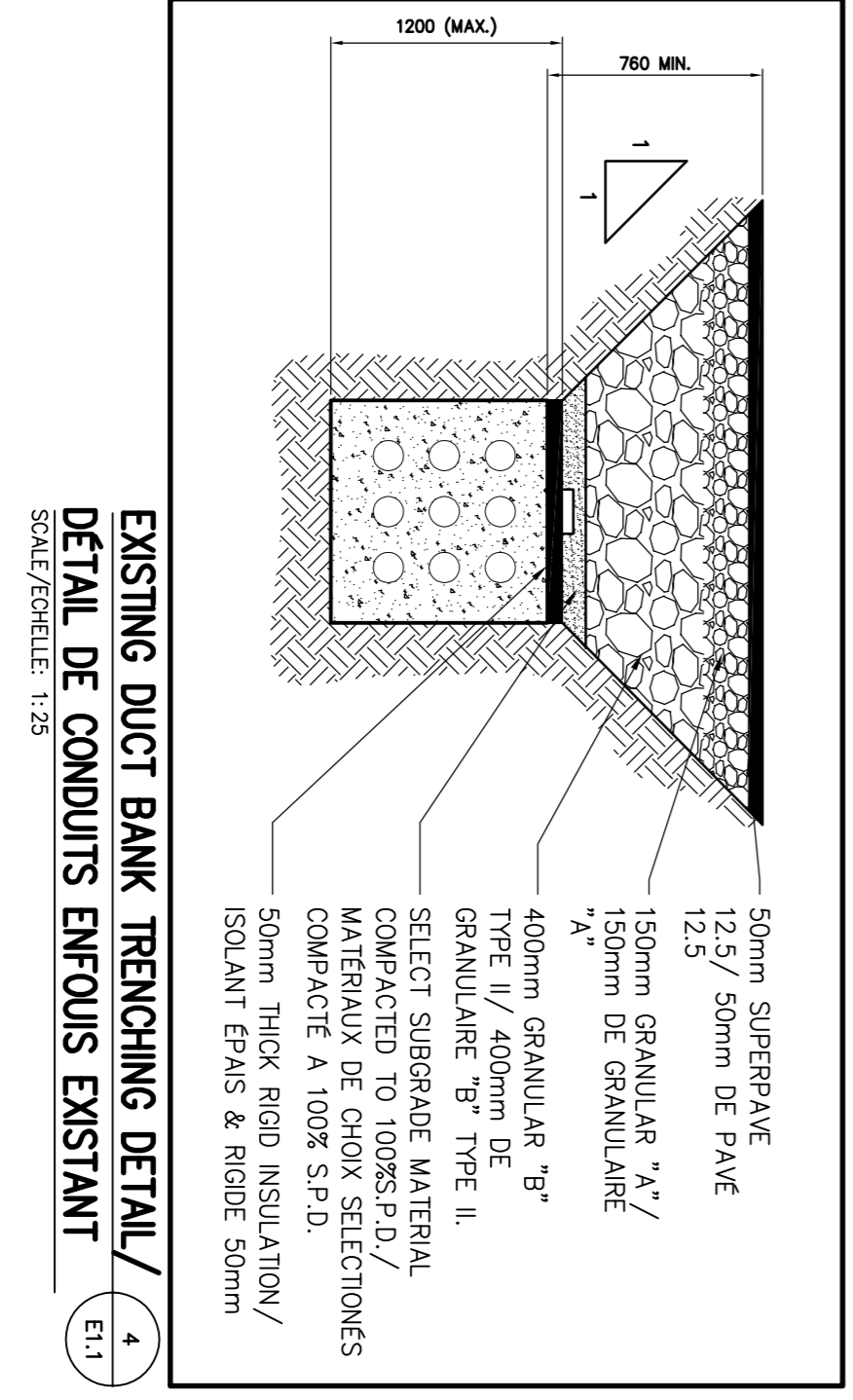
EXISTING PARTIAL SITE PLAN/PLAN DU SITE PARTIEL EXISTANT
SCALE/ECHELLE 1:250
E1.1



EXISTING CONCRETE ENCASED DUCT BANK DETAIL / DETAIL DE CONDUITS EXISTANTS ENFOUS DANS LE CIMENT
E1.1



EXISTING DUCT BANK REINFORCING DETAIL / DETAIL DE CONDUITS ENFOUS RENFORCES EXISTANT
E1.1



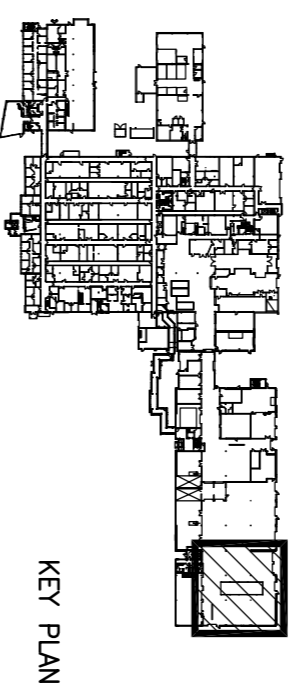
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SCALE/ECHELLE 1:25
E1.1

CONTRACT DRAWINGS

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DESSINS DU CONTRAT

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revision	description	date
1	ISSUED FOR 65% REVIEW	08/07/12
2	ISSUED FOR 90% REVIEW	11/29/12
3	ISSUED FOR REVIEW ELECTRICAL RM 1807	07/21/13
4	ISSUED FOR TENDER	08/20/13

Do not scale drawings. Verify all dimensions and conditions on site and immediately notify the engineer of all discrepancies.

A No. du detail
B drawing no. - where detail required
C drawing no. - du detail exigé
C drawing no. - où detail requis

project title
335 RIVER ROAD
OTTAWA ONTARIO
VETEVY ACCUMULATION CELLS
ELECTRICAL INFRASTRUCTURE
UPGRADES

drawing title
EXISTING PARTIAL SITE PLAN
PLAN DU SITE PARTIEL
EXISTANT

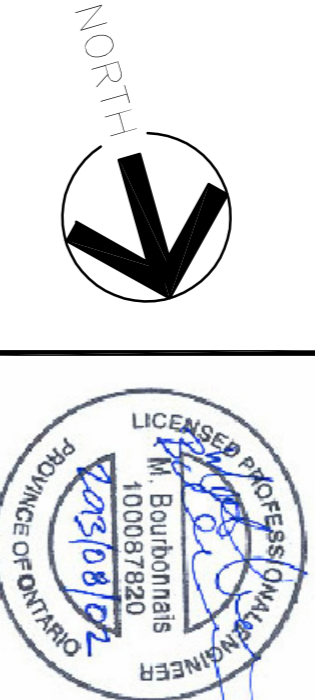
designed by MB
approved by FH
submitter -
project manager / administrateur de projet

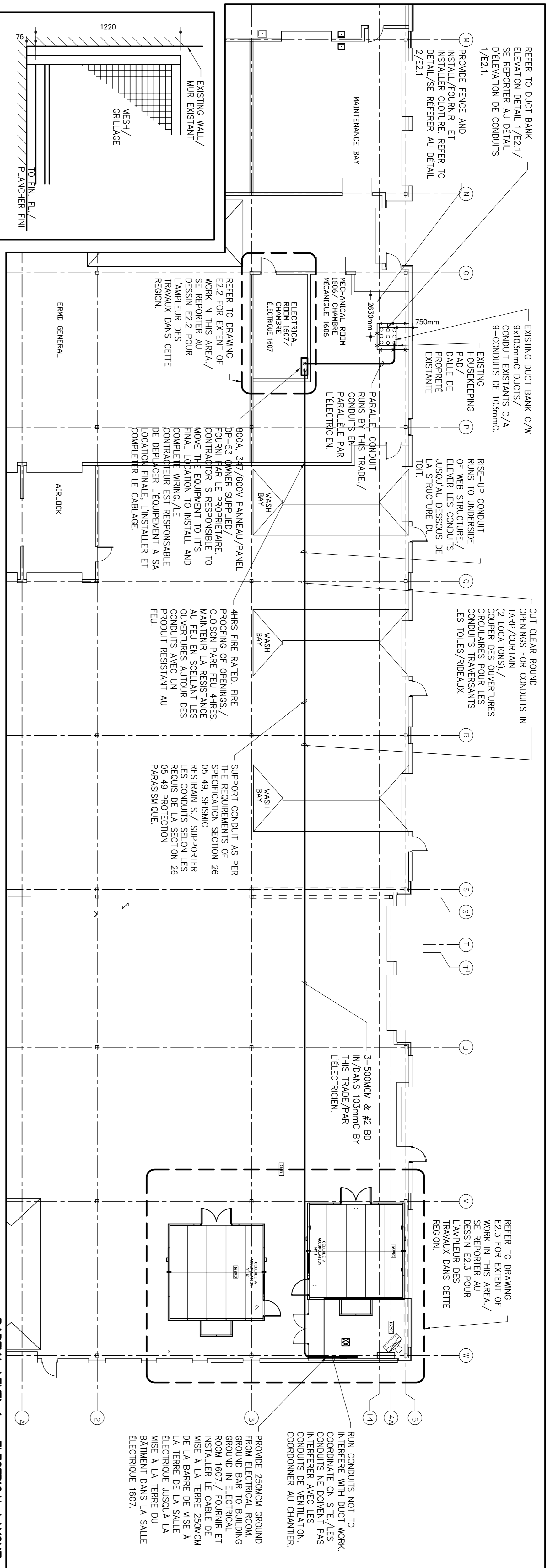
project no. RR-080-J2218
drawing no. E1.1

Environment Canada
Property Management District 1
Gestion de l'immobilier District 1

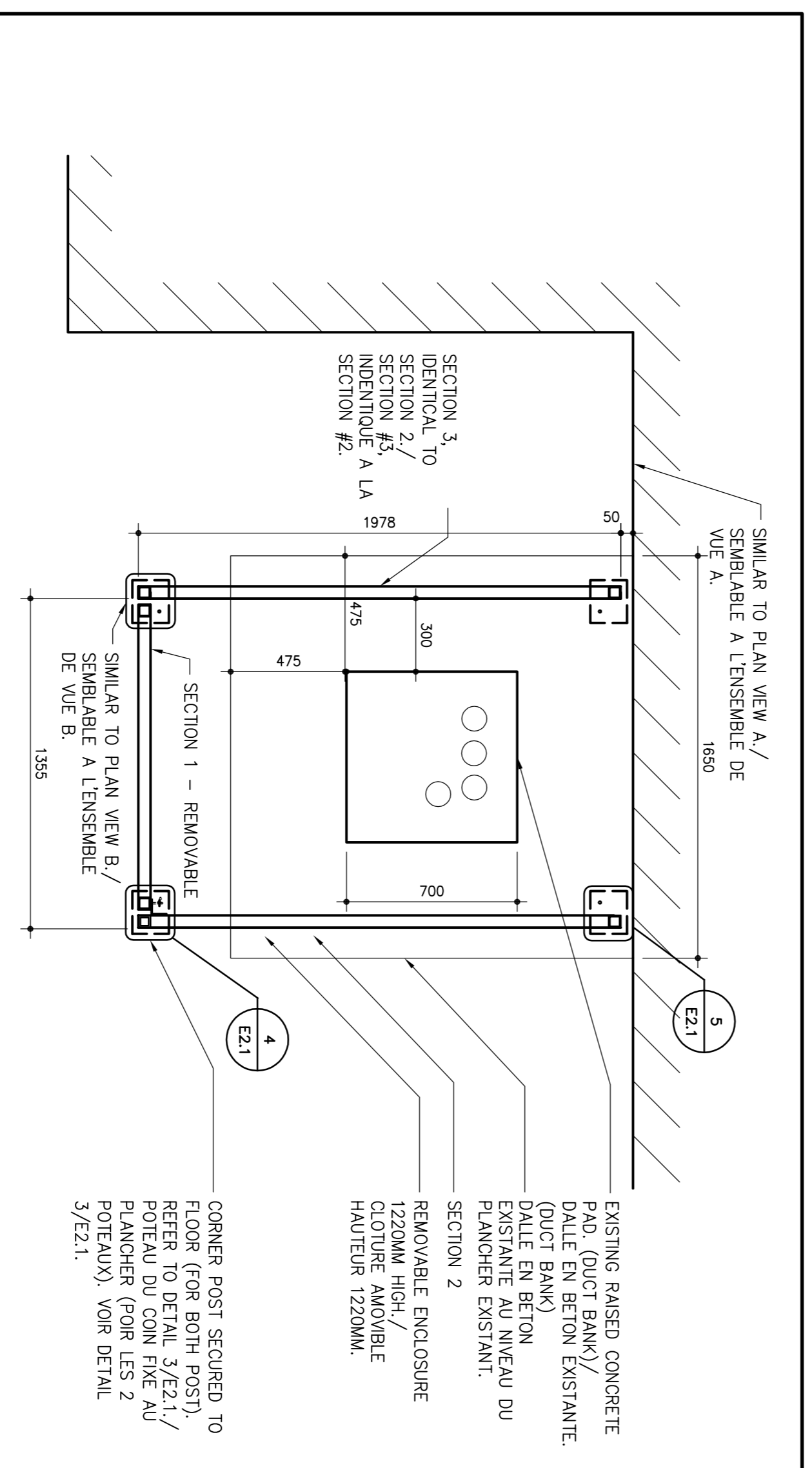
GENIVAR
1345 ROSEMOUNT AVENUE
CORNWALL, ONTARIO
CANADA K6J 3K3
PHONE: 613-333-5622 FAX: 613-336-0335
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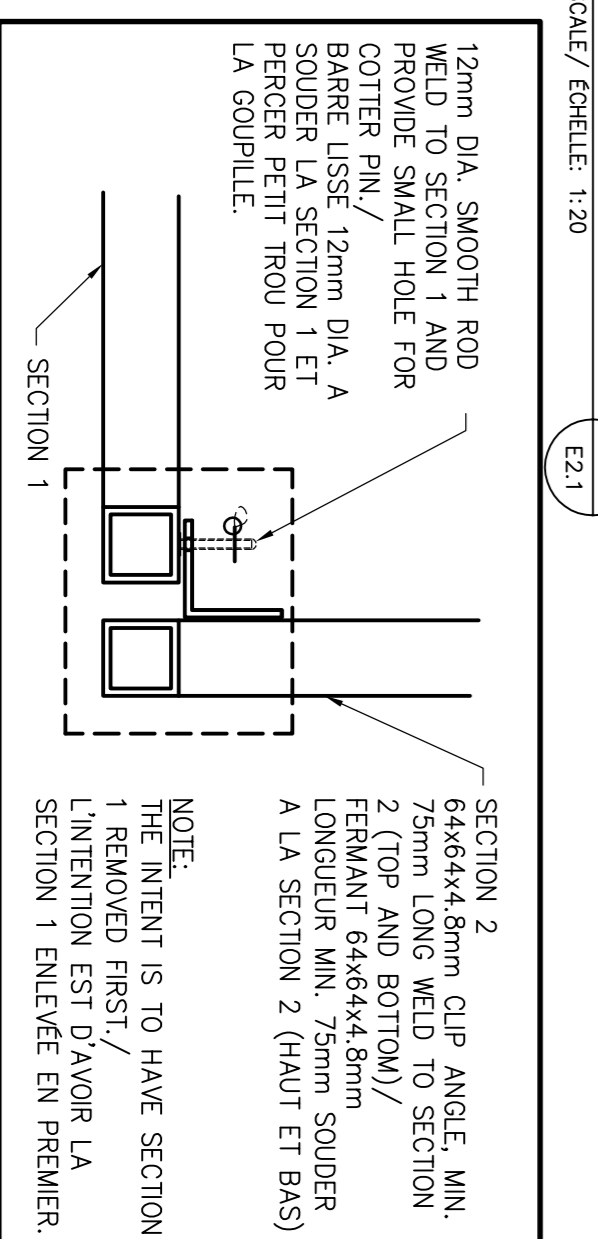




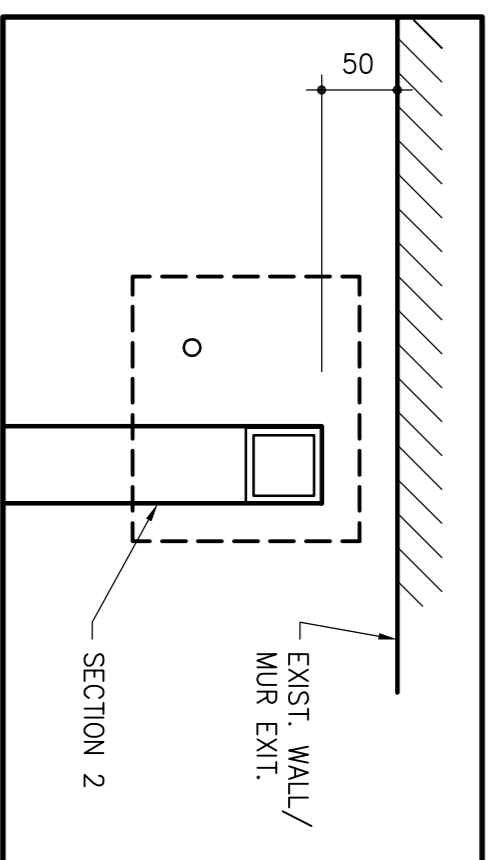
ELEVATION VIEW/ VUE D'ELEVATION
SCALE/ÉCHELLE: 1:20



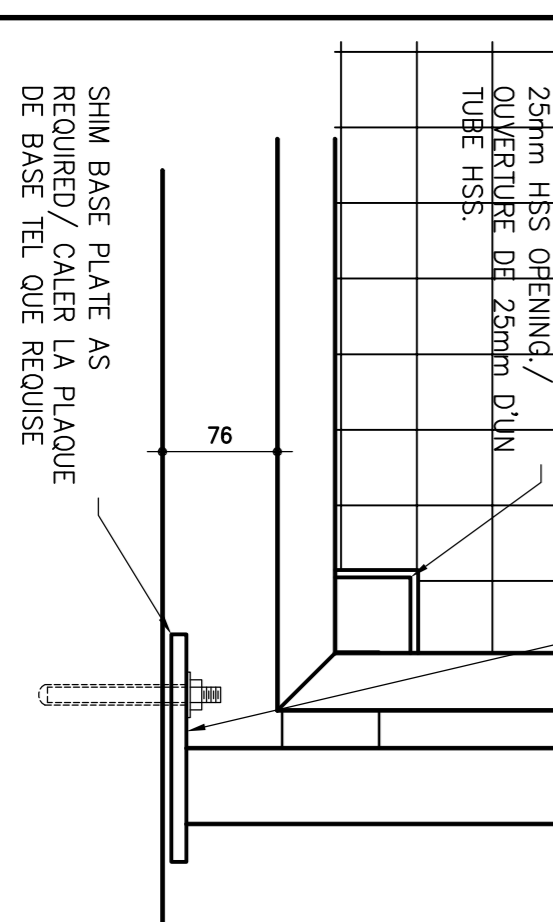
OVERALL PLAN VIEW/ PLAN D'ENSEMBLE
SCALE/ÉCHELLE: 1:20



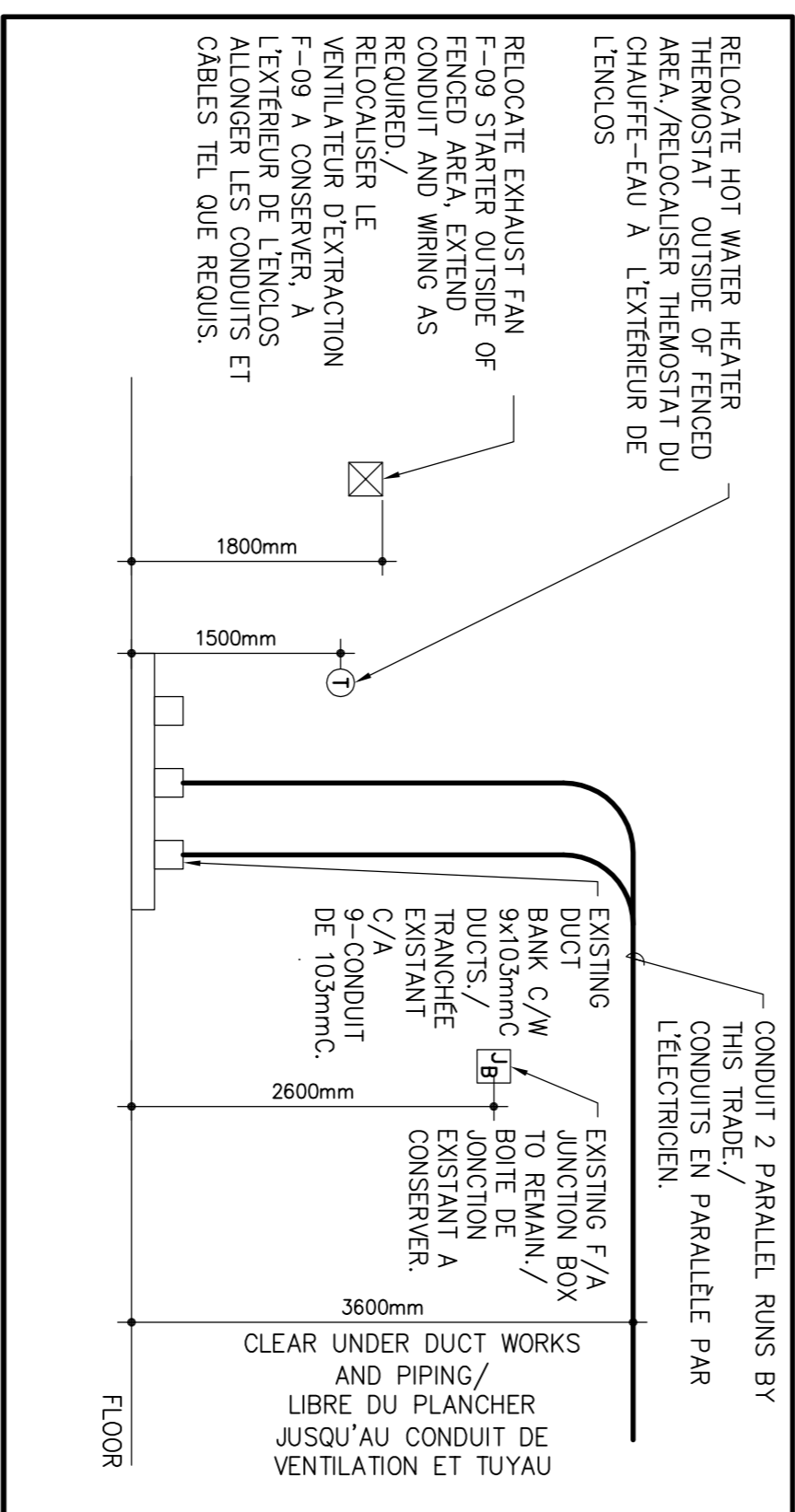
PLAN VIEW A/ PLAN D'ENSEMBLE A
SCALE/ÉCHELLE: 1:5



PLAN VIEW B/ PLAN D'ENSEMBLE B
SCALE/ÉCHELLE: 1:5



DUCT BANK ELEVATION DETAIL DETAIL D'ELEVATION DE CONDUITS
SCALE/ÉCHELLE: 1:50



PARTIAL LEVEL 1 - ELECTRICAL LAYOUT NIVEAU 1 PARTIEL - AMENAGEMENT DES INSTALLATIONS ELECTRIQUES
SCALE/ÉCHELLE: 1:50

GENERAL NOTES:

- CONDUIT RUNS TO CLEAR EXISTING JUNCTION BOXES.
- PAINTING: ALL STEEL TO BE PRIME PAINTED. PAINT COLOUR TO BE BLACK.

NOTE GÉNÉRALES:

- LES CONDUITS DOIVENT ENTRER LES BOÎTES DE JONCTION EXISTANTES.
- PEINTURE: TOUT ACIER DOIT AVOIR UNE COUCHE D'APPÊS ET COUCHE DE FINITION TREMÇALO. COULEUR NOIR.

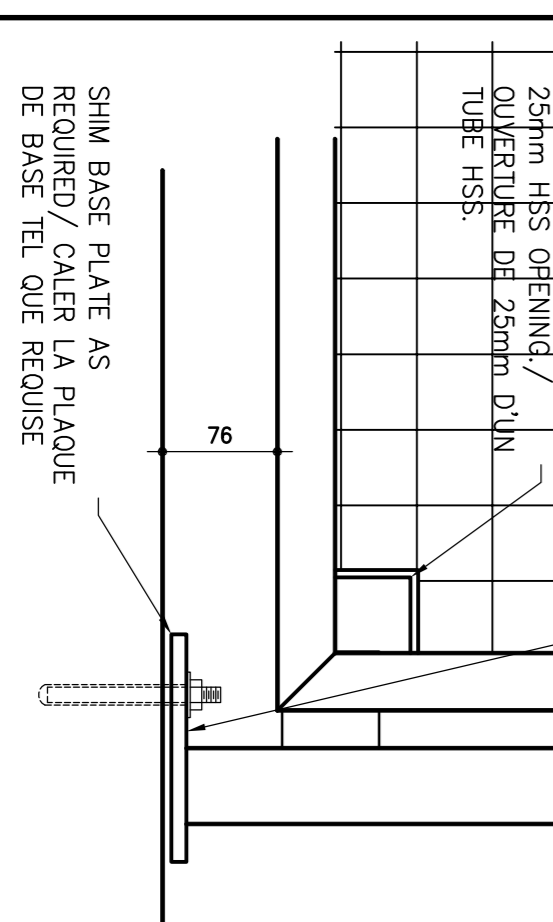
CONTRACT DRAWINGS

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DESIGNS DU CONTRAT

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BASE OF POST DETAIL/ DETAIL DE LA BASE DU POTEAU
SCALE/ÉCHELLE: 1:5



LEGEND

TO BE REMOVED
EXISTING TO REMAIN
NEW TO BE PROVIDED

LEGÈNDE

ARTICLE, À ENLEVER
ARTICLE EXISTANT, À CONSERVER
FOURNIR ET INSTALLER

PROJECT TITLE: PARTIAL LEVEL 1 ELECTRICAL LAYOUT AMENAGEMENT PARTIEL DES INSTALLATIONS ELECTRIQUES NIVEAU 1

PROJECT NO: RR-080-J2218

DATE: 2012/7/24

DRAWING NO: E2.1

PROJECT MANAGER: [Name]

DATE PLOTTED: 2012-11-19

Environment Canada
Gestion de l'immobilier
District 1

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PROFESSIONAL ENGINEER
M. BOUMBER
10357250
12/23/08/178
SERVING THE PROVINCE OF ONTARIO

KEY PLAN

revision	description	date
1	ISSUED FOR 60% REVIEW	08/07/12
2	ISSUED FOR 90% REVIEW	11/29/12
3	ISSUED FOR REVIEW ELECTRICAL RM 1607	07/21/13
4	ISSUED FOR TENDER	08/20/13

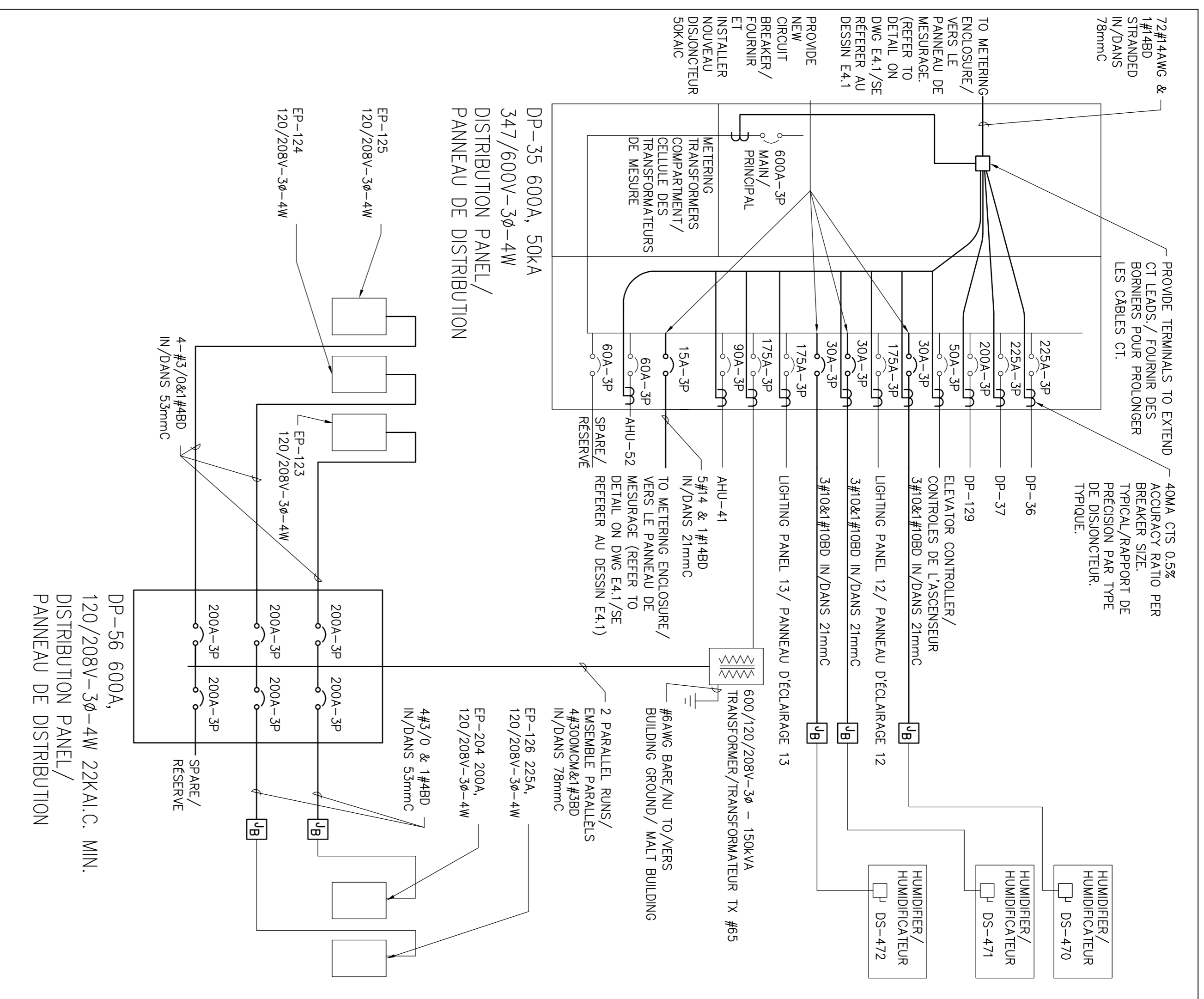
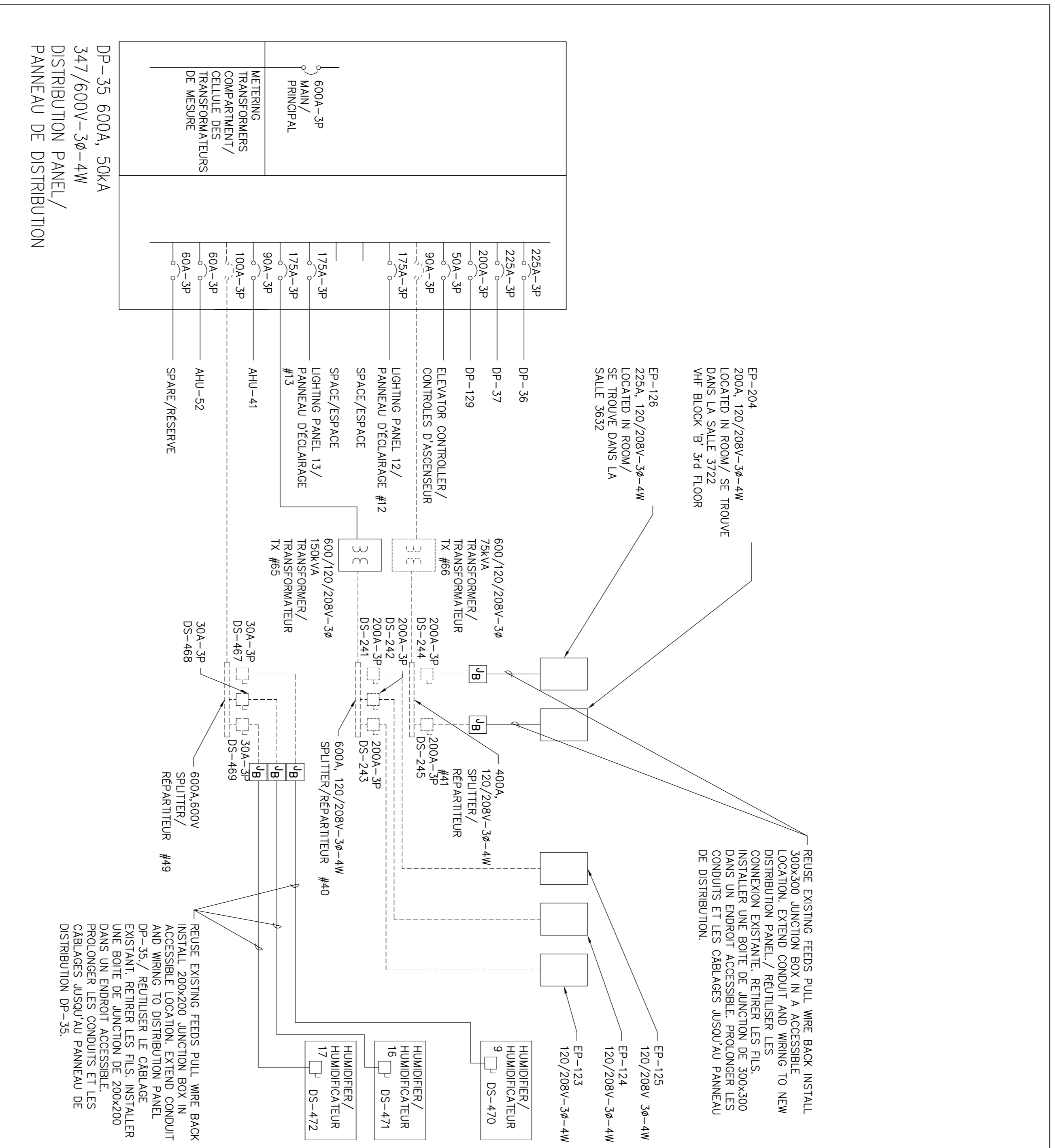
approval	description
A	Detail No.
B	drawing no. - where detail required
C	drawing no. - where detail engage
	drawing no. - as detailed

PROJECT TITLE: PARTIAL LEVEL 1 ELECTRICAL LAYOUT AMENAGEMENT PARTIEL DES INSTALLATIONS ELECTRIQUES NIVEAU 1

PROJECT NO: RR-080-J2218

DATE: 2012/7/24

DRAWING NO: E2.1



LEGEND

	TO BE REMOVED
	EXISTING TO REMAIN
	NEW TO BE PROVIDED

LEGENDE

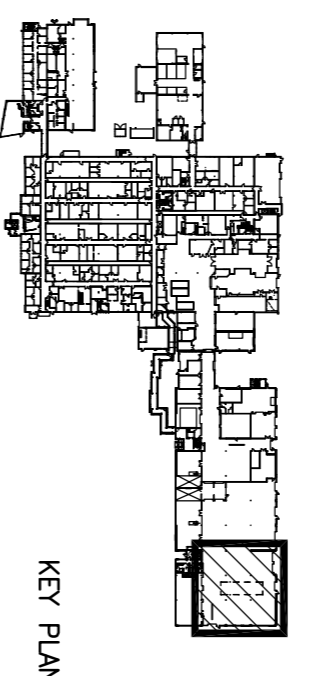
	ARTICLE, À ENLEVER
	ARTICLE EXISTANT, À CONSERVER
	FOURNIR ET INSTALLER

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revision	description	date
1	ISSUED FOR 60% REVIEW	08/07/12
2	ISSUED FOR 90% REVIEW	11/29/12
3	ISSUED FOR REVIEW ELECTRICAL PER 10/7	07/21/13
4	ISSUED FOR TENDER	08/20/13

Do not scale drawings. Verify all dimensions and conditions on site and immediately notify the engineer of all discrepancies.

Detail No.	No. du détail
A	No. du détail
B	drawing no. - where detail required
C	drawing no. - where detail enlarged
	drawing no. - on detail

project title
OTTAWA

335 RIVER ROAD
VETEVY ACCUMULATION CELLS ELECTRICAL INFRASTRUCTURE UPGRADES

ONTARIO

drawing title
EXISTING & REVISED/PARTIAL SINGLE LINE PLAN UNIFILAIRE EXISTANT ET REVISÉ

drawing no.
E2.3

project manager
RR-080-J2218

project date
2012/7/24

designed by
MB

approved by
FH

contractor
GENIVAR

1345 ROSMOUNT AVENUE
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Environment Canada
Property Management
District 1

Environment Canada
Gestion de l'immobilier
District 1

ELECTRICAL LEGEND

①	REMOVE & RELOCATE THERMOSTAT.
Ⓠ	REMOVE JUNCTION BOX AND ALL ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE.
Ⓢ	EXISTING SECURITY CAMERA SYSTEM TO REMAIN
Ⓢ	EXISTING 120V-15A DUPLEX RECEPTACLE TO REMAIN
Ⓢ	EXISTING CO DETECTOR TO REMAIN
Ⓢ	EXISTING FIRE ALARM SPEAKER/STROBE TO REMAIN
Ⓢ	EXISTING 1'x4' FLUORESCENT LIGHT FIXTURE TO REMAIN
Ⓢ	EXISTING MOTOR BY OTHERS TO REMAIN.
Ⓢ	EXISTING SPEAKER TO REMAIN
Ⓢ	EXISTING COMBINATION STARTER TO REMAIN.
R ①	RELOCATED POSITION OF THERMOSTAT
■	SURFACE MOUNT PANEL
Ⓢ	PROVIDE JUNCTION BOX
Ⓢ	PROVIDE WALL MOUNTED DOUBLE FACE EXIT SIGN TO MATCH EXISTING
Ⓢ	A.F.F. ABOVE FINISHED FLOOR

LEGENDE ELECTRIQUE

①	ENLEVER ET RELOCALISER THERMOSTAT
Ⓠ	ENLEVER BOITE DE JONCTION ET DE MEME QUE TOUTS LES CONDUITS ET CABLES CONNEXES, JUSQU'A LA SOURCE DE COURANT.
Ⓢ	CAMERA DE SURVEILLANCE EXISTANTE A CONSERVER.
Ⓢ	PRESE DE COURANT DOUBLE 15A, 120V EXISTANT A CONSERVER
Ⓢ	DETECTEUR DE MONOXYDE DE CARBONE EXISTANT A CONSERVER
Ⓢ	HAUT-PARLEUR/ALARME INCENDIE EXISTANT A CONSERVER
Ⓢ	APPAREIL D'ECCLAIRAGE FLUORESCENT 300mm x 1200mm EXISTANT A CONSERVER
Ⓢ	MOTEUR PAR AUTRES EXISTANT A CONSERVER.
Ⓢ	HAUT-PARLEUR EXISTANT A CONSERVER.
Ⓢ	DEMARREUR DU TYPE COMBINE
Ⓢ	THERMOSTAT RELOCALISE
■	PANNEAU ELECTRIQUE EN SURFACE
Ⓢ	FOURNIR BOITE DE JONCTION
Ⓢ	ENSEMBLE DE SORTIE DEUX COTES MONTAGE MURAL DU MEME TYPE ET MODELE EXISTANT.
Ⓢ	A.U.P.F. AU-DESSUS DU PLANCHER FINI

LEGEND

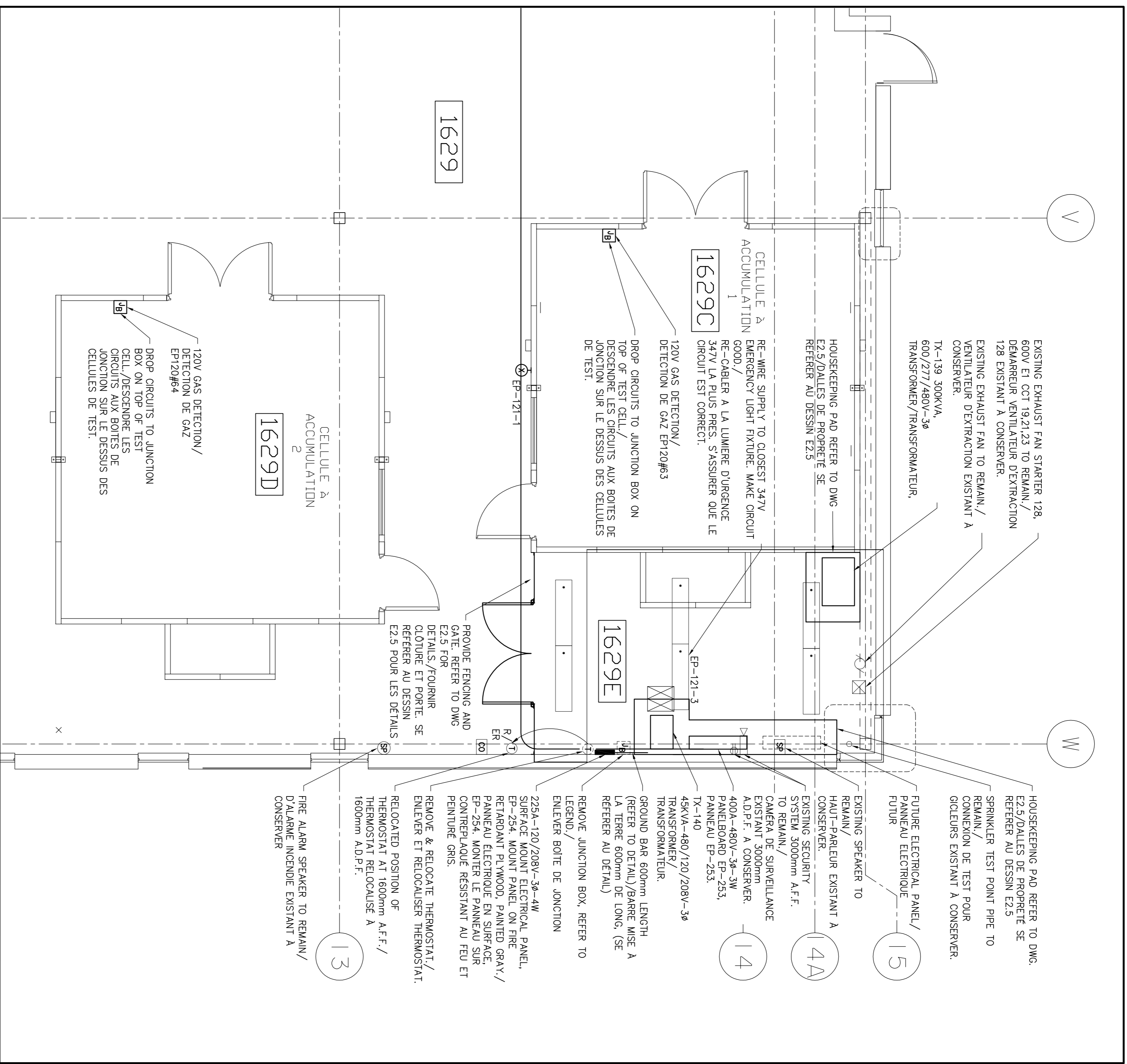
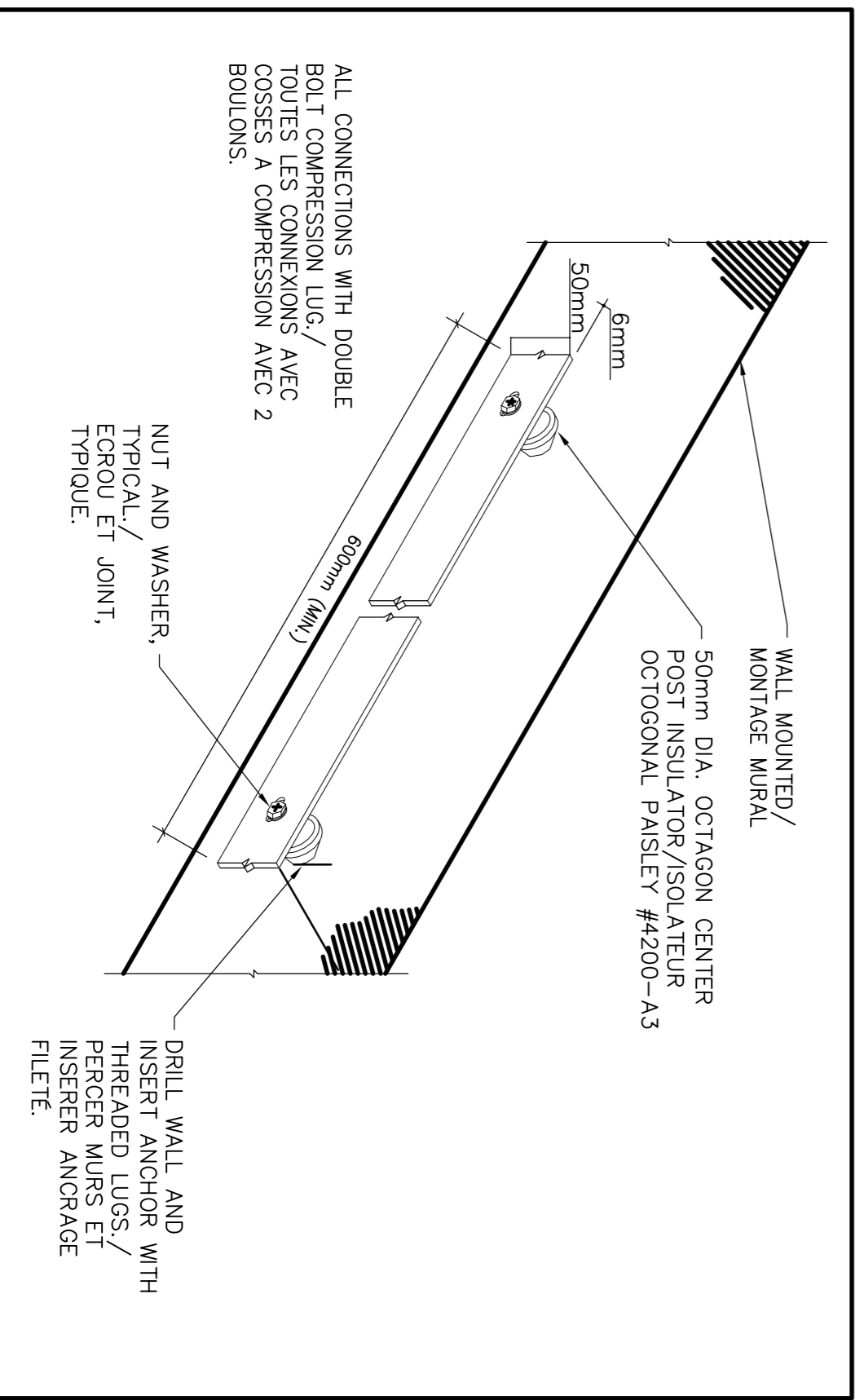
---	TO BE REMOVED
---	EXISTING TO REMAIN
---	NEW TO BE PROVIDED

LEGENDE

---	ARTICLE, A ENLEVER
---	ARTICLE EXISTANT, A CONSERVER
---	FOURNIR ET INSTALLER

- GENERAL NOTES:**
1. PROVIDE 2500MM GROUND FROM ELECTRICAL ROOM, GROUND BAR TO BUILDING GROUND IN ELECTRICAL ROOM 1607.
 2. PROVIDE #6 BARE GROUND FROM TRANSFORMERS NEUTRAL TO GROUND BAR.
 3. ALL NEW EQUIPMENT TO BE COMPLETE WITH DRIP HOODS.
 4. PROVIDE 100mm THICK CONCRETE HOUSEKEEPING PADS FOR TRANSFORMERS AND DISTRIBUTION PANELS. HOUSEKEEPING PADS TO EXTEND MIN 100mm PAST EQUIPMENT ENCLOSURES. REFER TO TYPICAL HOUSEKEEPING PAD DETAIL.

- NOTE GENERAL:**
1. FOURNIR CABLE DE MISE A LA TERRE 2500MM DE LA BARRE DE MISE A LA TERRE DE LA SALLE ELECTRIQUE JUSQU'A LA MISE A LA TERRE DU BATIMENT DANS LA SALLE ELECTRIQUE 1607.
 2. FOURNIR CABLE NU DE MISE A LA TERRE #6 NEUTRE DU TRANSFORMATEUR JUSQU'A LA BARRE DE MISE A LA TERRE.
 3. TOUTS LES NOUVEAUX EQUIPEMENTS DOIVENT ETRE COMPLET AVEC PARE ECOUILLIEMENT.
 4. FOURNIR DES DALLES DE PROPRETE EN BETON, EPASSEUR DE 100mm POUR LES TRANSFORMATEURS ET LES PANNEAUX DE DISTRIBUTION. LES DALLES DEVONT SE PROLONGER UN MIN. DE 100mm AFIN DE DEPASSER LES PIECES D'EQUIPEMENT. SE REFERER AU DETAIL POUR DALE DE PROPRETE TYPIQUE.

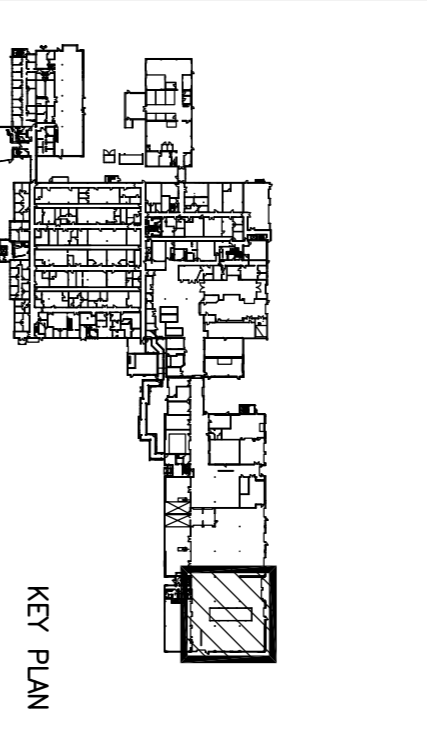


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1	ISSUED FOR 99% REVIEW	11/29/12
2	ISSUED FOR 68% REVIEW	08/07/12
3	ISSUED FOR REVIEW ELECTRICAL RM 1607	07/12/13
4	ISSUED FOR TENDER	08/20/13

A	Detail No.
B	drawing no. - where detail required
C	drawing no. - du detail exigé

project title
OTTAWA ONTARIO
335 RIVER ROAD
VETEVY ACCUMULATION CELLS
ELECTRICAL INFRASTRUCTURE
UPGRADES

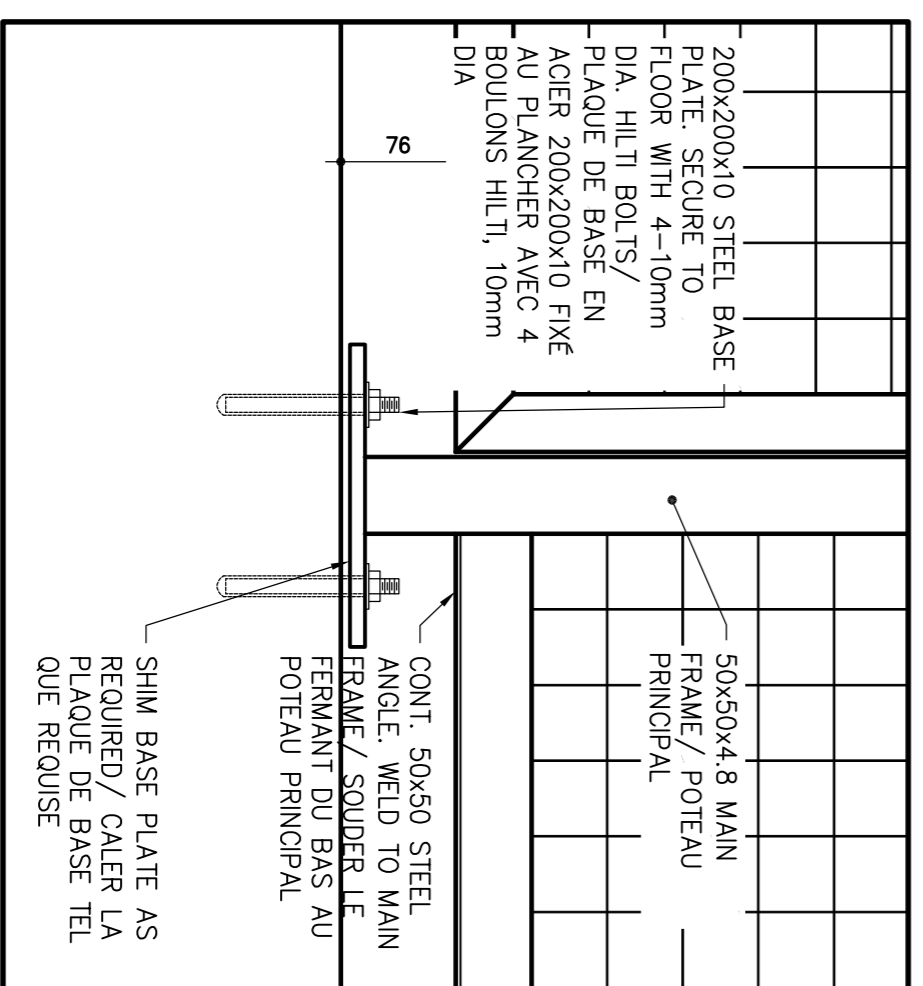
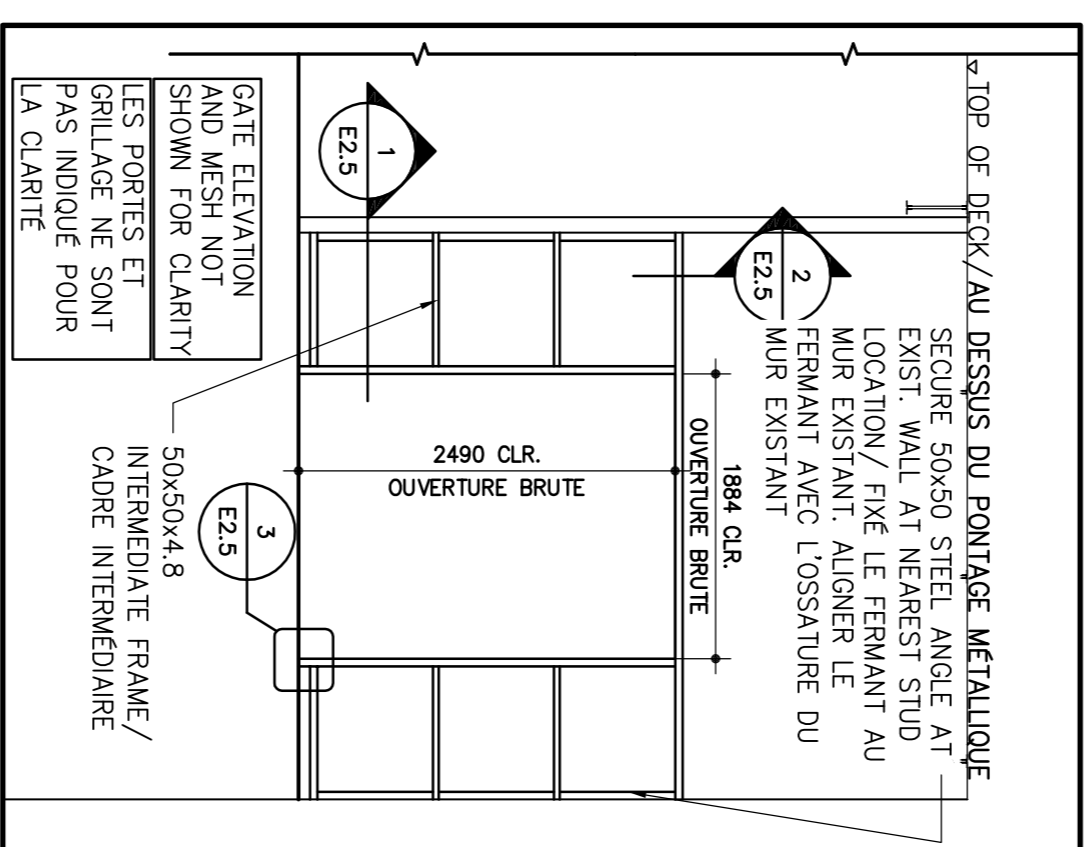
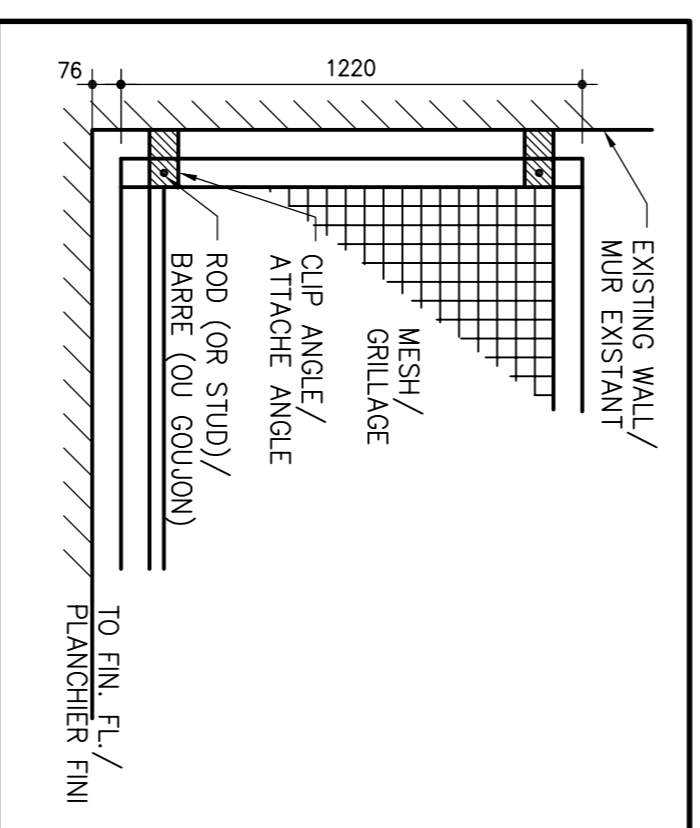
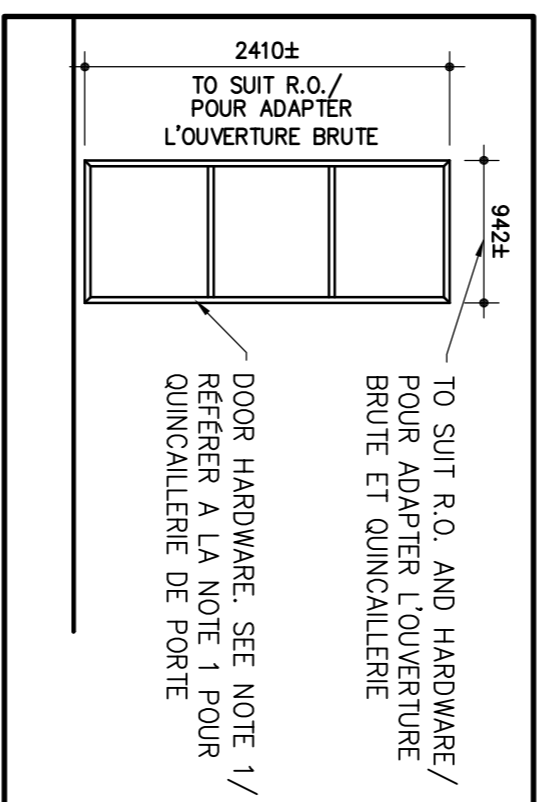
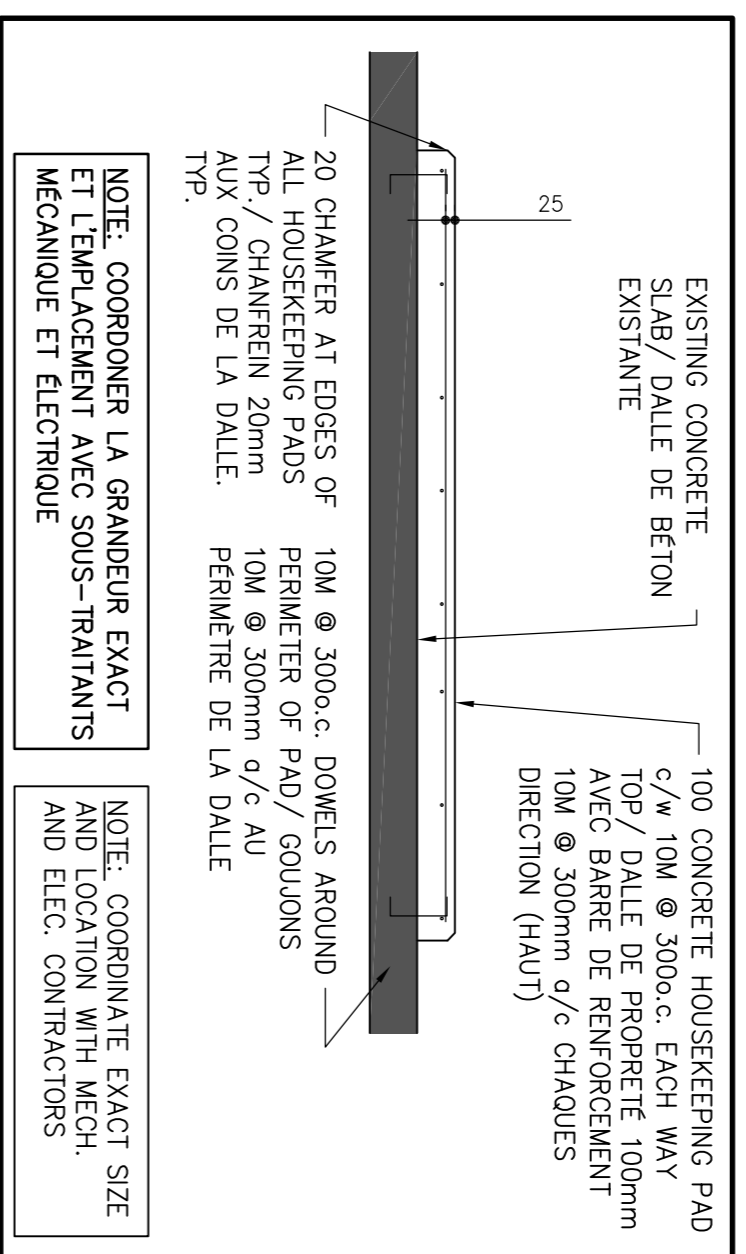
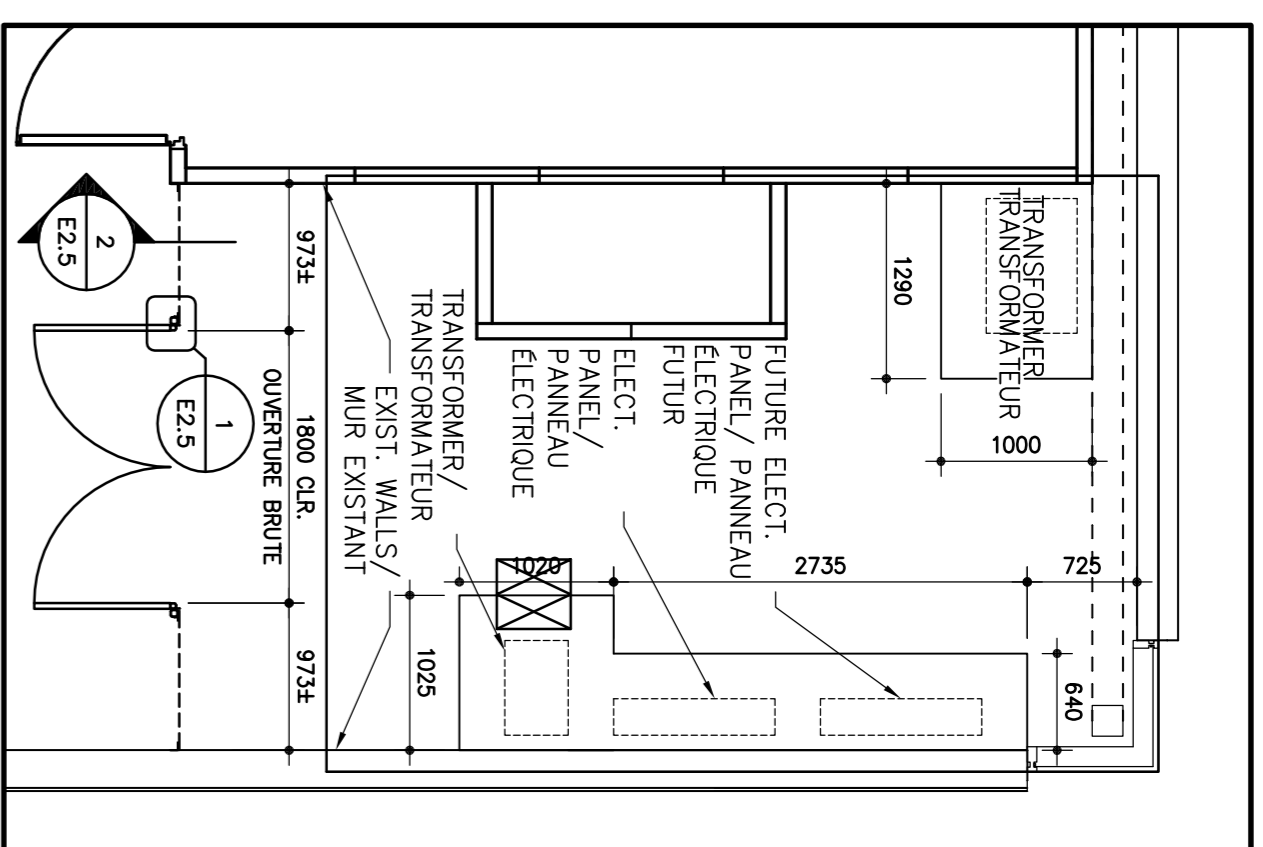
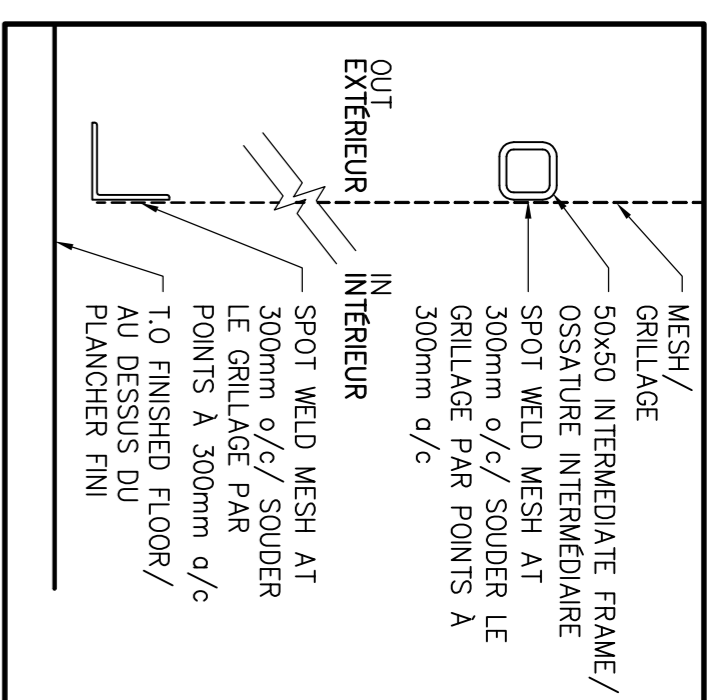
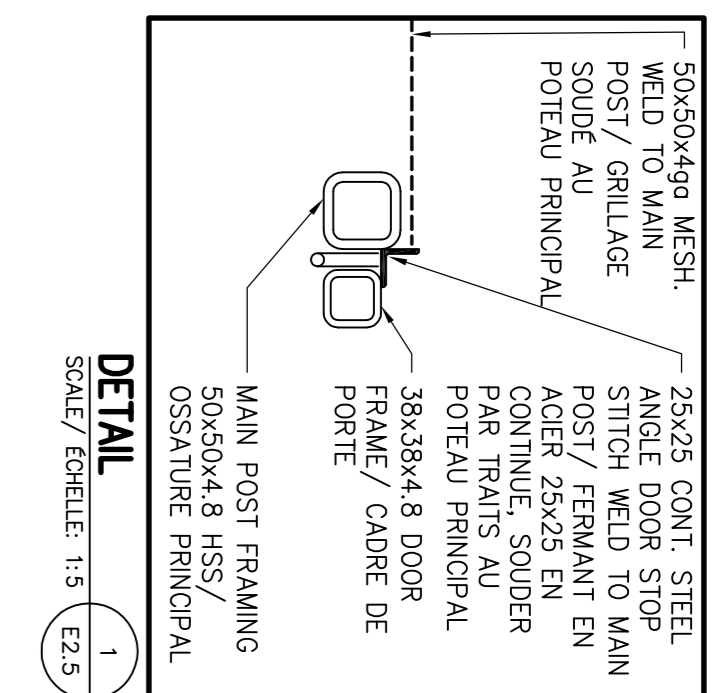
drawing title
ELECTRICAL ROOM 1629E
LAYOUT/AMENAGEMENT SALLE
1629E ELECTRIQUE

drawn by designe par	CT
designed by conc. par	MB
approved by approuve par	FH
contractor soutenance	-
project date date du projet	2012/7/24
project no. no. du projet	RR-080-J2218
drawing no. dessine no.	E2.4

Environment Canada
Gestion de l'immobilier
District 1

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PHONE: 613-333-9622 FAX: 613-936-0335
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- NOTES GENERALES:**
- QUINCAILLERIE DE PORTE:
 - CHAMBRERIE 100mm
 - SOUDER (SANS TROUS), 389R, 5 JOINTURES, FINI
 - POUNEE EN U 150mm, SERIE SERVICE INTENSE, FINI NOIR
 - MORILLON DE SECURITE 90mm, STANDARD, USAGE GENERAL, FINI ACIER.
 - PEINTURE: TOUT ACIER DOIT AVOIR UNE COUCHE D'ARRÊTS ET COUCHE DE FINITION TREMCLAD.

- GENERAL NOTES:**
- DOOR HARDWARE:
 - 100mm HEAVY DUTY WELD-ON HINGE (NO HOLES), 389R, FIVE KWICKIES, STEEL FINISH.
 - 150mm HEAVY DUTY PULL, BLACK COATED.
 - 90mm SAFETY HASP, STANDARD TYPE (GENERAL PURPOSE), PLAIN STEEL FINISH.
 - PAINTING: ALL STEEL TO BE PRIME PAINTED, PAINT WITH TREMCLAD FINISH PAINT. COLOUR TO BE BLACK.

CONTRACT DRAWINGS
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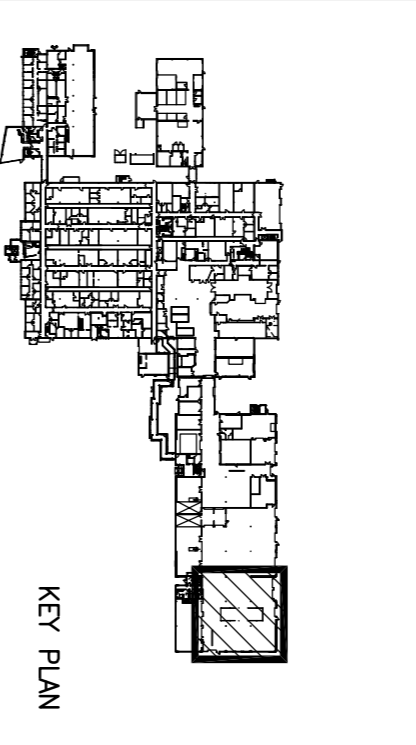
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Environment Canada / Environnement Canada
Property Management / Gestion de l'immobilier
District 1 / District 1

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PROFESSIONAL ENGINEER
M. Bourbonnais
100871220
2013/08/19
PROVINCE OF ONTARIO



4	ISSUED FOR TENDER	08/20/13
3	ISSUED FOR REVIEW ELECTRICAL RM 1697	07/21/13
2	ISSUED FOR 99% REVIEW	11/29/12
1	ISSUED FOR 68% REVIEW	08/07/12
revision	description	date

Do not scale drawings. Verify all dimensions and conditions on site and immediately notify the engineer of all discrepancies.

A Detail No.
B drawing no. - where detail required
C drawing no. - du detail exigé
drawing no. - où detail requis

project title
335 RIVER ROAD
OTTAWA ONTARIO

ETC.
VETEV/ ACCUMULATION CELLS
ELECTRICAL INFRASTRUCTURE
UPGRADES

drawing title
ELECTRICAL ROOM 1629E
DETAILS/DETAILS SALLE
ELECTRIQUE 1629E

drawn by
CL

designed by
MB

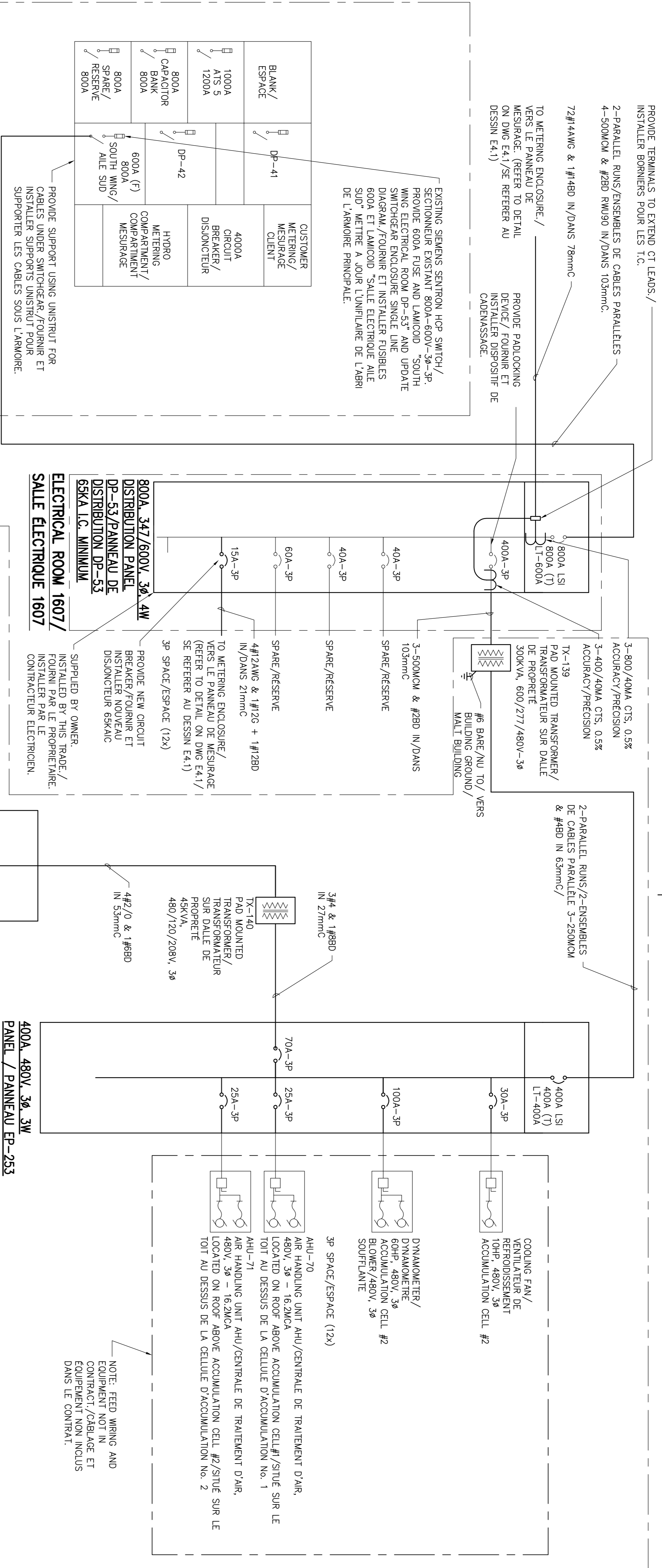
approved by
FH

project manager
-

date du projet
2012/7/24

project no.
RR-080-J2218

drawing no.
E2.5

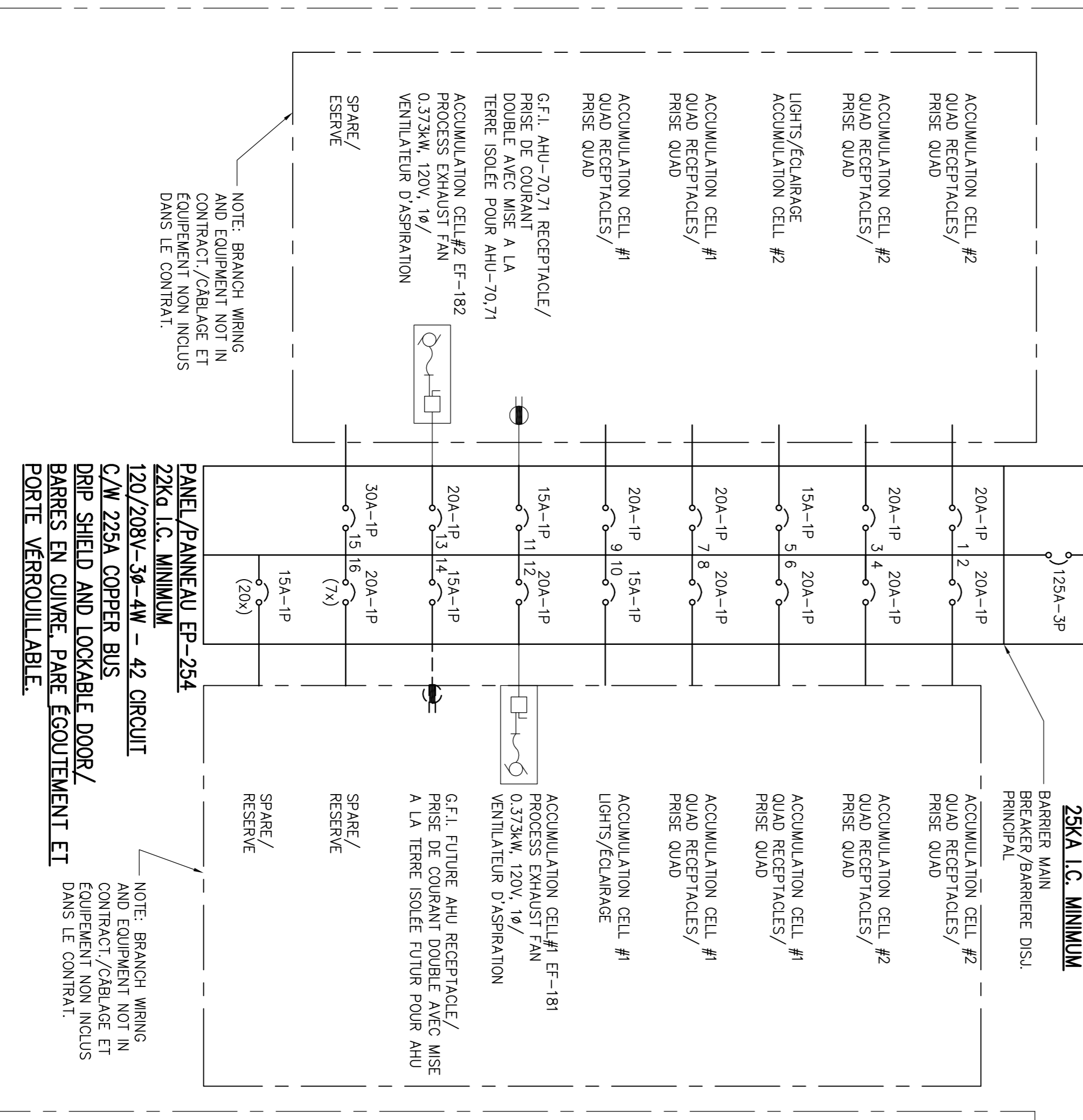


EXISTING MAIN SWITCHGEAR
ARMOIRE DE COMMUTATION PRINCIPALE
SCALE N.T.S.

600V AND 480V FEEDER CALCULATION/CALCULS D'ARTERES A 600V ET 480V

DESCRIPTION	QTY/OTE	VOLTAGE	HP	KW	TOTAL KW
AHU	2	480V	11	11	22
FUTURE AHU/FUTURE AHU	1	480V	11	11	11
COOLING FAN/VENT	2	480V	10	10	20
DE REFRIGERISSEMENT					
FUTURE COOLING FAN/ VENT. DE 1	480V	10	10	10	10
REFROIDISSEMENT FUTURE					
DYNAMOMETRE #1/	1	480V	60	55	55
DYNAMOMETRE #2/	1	480V	60	55	55
DYNAMOMETRE #1/	1	480V	60	55	55
DYNAMOMETRE #2/	1	480V	60	55	55
FUTURE D'YMO./	1	480V	60	55	55
DYNAMOMETRE FUTURE					
MISC. LOADS/	1	120/208V	20	20	20
CHARGES VARIES					
					246 KW

600V FEEDER SIZE CALCULATION/
CALCUL D'ARTERE A 600V
255kW @ 600V = 255A TOTAL
255 X 1.25 = 319A
MINIMUM FEEDER SIZE 600A
600/480V TRANSFORMER CALCULATION/
CALCUL DU TRANSFORMATEUR
600/480V
LOAD AT 480V/CHARGES A 480V
246kW/273kVA MINIMUM TRANSFORMER SIZE 300kVA/
TRANSFORMATEUR
MINIMUM DE 300kVA



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LEGENDE TYPE DE LIGNE
PAR AUTRES DISCIPLINE
PAR LE CONTRACTEUR
ELECTRIEN
TRAVAUX FUTURS

LEGENDE
BY OTHERS
BY THIS TRADE
FUTURE WORK

DESSINS DU CONTRAT
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CONSULTANT

PROFESSIONAL ENGINEER
PROVINCE OF ONTARIO
10087280
12/3/08/02

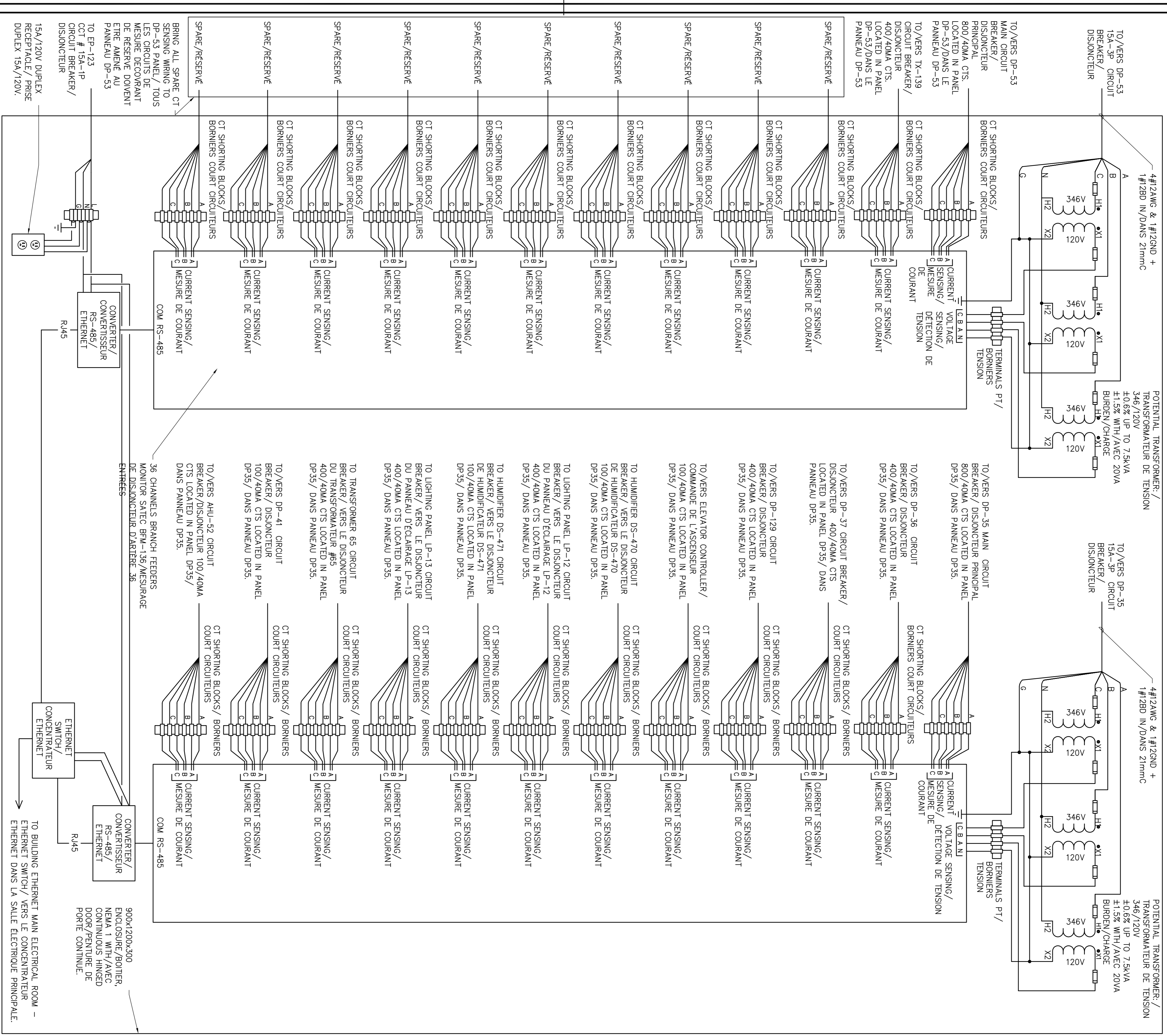
KEY PLAN

LEGEND
1 ISSUED FOR 60% REVIEW
2 ISSUED FOR 90% REVIEW
3 ISSUED FOR REVIEW ELECTRICAL RM 1607
4 ISSUED FOR TENDER

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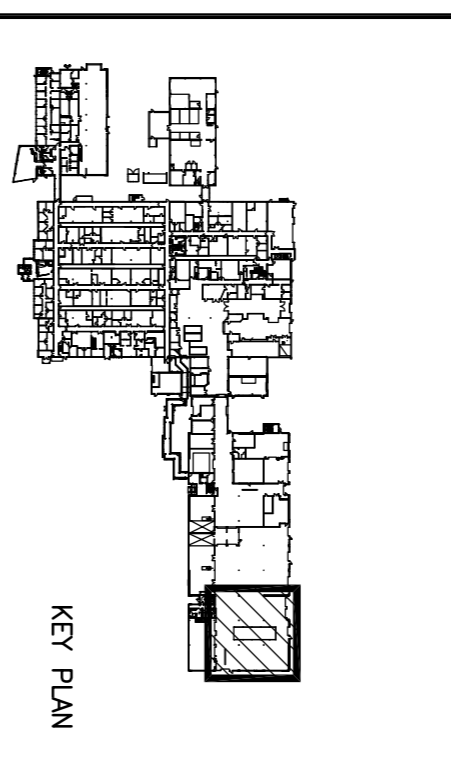
Project Name: **VETEV/ ACCUMULATION CELLS ELECTRICAL INFRASTRUCTURE UPGRADES**
Address: **335 RIVER ROAD OTTAWA ONTARIO**

Project Manager / administrateur de projet: **RR-080-J2218**
Drawing no. / dessin no.: **E3.1**



METERING ENCLOSURE DETAIL - DETAIL DE BOITIER DE MESURAGE
 SCHEMATIC: N15

KW LEG	DESCRIPTION	BRG #	CCT #	BRG #	DESCRIPTION	LEG	KW
-	F.A.C.P.	15	1	15		-	
-	O/H DOOR OPENER 2 (3/4HP)	15	3	4	O/H DOOR OPENER 2 (3/4HP)	-	
-	O/H DOOR OPENER 2 (3/4HP)	3P	7	8		-	
-	O/H DOOR OPENER 2 (3/4HP)	15	9	10	O/H DOOR OPENER 2 (3/4HP)	-	
-	O/H DOOR OPENER 2 (3/4HP)	3P	11	12		-	
-	O/H DOOR OPENER 2 (3/4HP)	3P	13	14		-	
-	O/H DOOR OPENER 2 (3/4HP)	15	15	16	O/H DOOR OPENER 2 (3/4HP)	-	
-	O/H DOOR OPENER 2 (3/4HP)	3P	17	18		-	
-	O/H DOOR OPENER 2 (3/4HP)	15	19	20		-	
-	O/H DOOR OPENER 2 (3/4HP)	15	21	22	O/H DOOR OPENER 2 (3/4HP)	-	
-	O/H DOOR OPENER 2 (3/4HP)	3P	23	24		-	
-	O/H DOOR OPENER 2 (3/4HP)	3P	25	26		-	
-	O/H DOOR OPENER 2 (3/4HP)	15	27	28	O/H DOOR OPENER 2 (3/4HP)	-	
-	O/H DOOR OPENER 2 (3/4HP)	3P	29	30		-	
-	O/H DOOR OPENER 2 (3/4HP)	3P	31	32		-	
-	O/H DOOR OPENER 2 (3/4HP)	15	33	34	O/H DOOR OPENER 2 (3/4HP)	-	
-	O/H DOOR OPENER 2 (3/4HP)	3P	35	36		-	
-	O/H DOOR OPENER 2 (3/4HP)	3P	37	38		-	
-	O/H DOOR OPENER 2 (3/4HP)	15	39	40		-	
-	O/H DOOR OPENER 2 (3/4HP)	15	41	42		-	
-	O/H DOOR OPENER 2 (3/4HP)	15	43	44		-	
-	O/H DOOR OPENER 2 (3/4HP)	15	45	46		-	
-	O/H DOOR OPENER 2 (3/4HP)	15	47	48		-	
-	O/H DOOR OPENER 2 (3/4HP)	15	49	50		-	
-	O/H DOOR OPENER 2 (3/4HP)	15	51	52		-	
-	O/H DOOR OPENER 2 (3/4HP)	15	53	54		-	
-	O/H DOOR OPENER 2 (3/4HP)	15	55	56		-	
-	O/H DOOR OPENER 2 (3/4HP)	15	57	58		-	
-	O/H DOOR OPENER 2 (3/4HP)	15	59	60		-	
-	O/H DOOR OPENER 2 (3/4HP)	15	61	62		-	
-	O/H DOOR OPENER 2 (3/4HP)	15	63	64		-	
-	O/H DOOR OPENER 2 (3/4HP)	15	65	66		-	
-	O/H DOOR OPENER 2 (3/4HP)	15	67	68		-	
-	O/H DOOR OPENER 2 (3/4HP)	15	69	70		-	
-	O/H DOOR OPENER 2 (3/4HP)	15	71	72		-	
-	O/H DOOR OPENER 2 (3/4HP)	15	73	74		-	
-	O/H DOOR OPENER 2 (3/4HP)	15	75	76		-	
-	O/H DOOR OPENER 2 (3/4HP)	15	77	78		-	
-	O/H DOOR OPENER 2 (3/4HP)	15	79	80		-	
-	O/H DOOR OPENER 2 (3/4HP)	15	81	82		-	
-	O/H DOOR OPENER 2 (3/4HP)	15	83	84		-	



THE: SURFACEBOL-TION

MAINS RATING: 225A

MAIN BREAKER C/W BARRIER: N/A

VOLTAGE RATING: 120/208V-3P-4W

LEGEND:

P-POWER, H-HEATING, L-LIGHTING, M-MOTOR, *-GFCI BRK

PANEL/PANNEAU 'EP120' (EW)

PANEL LOCATION: GROUND FLOOR ROOM 1807

LOCATION: REZ-DE-CHAUSSEE SALLE 1807

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revision	description	date
1	ISSUED FOR 60% REVIEW	08/07/12
2	ISSUED FOR 90% REVIEW	11/29/12
3	ISSUED FOR REVIEW ELECTRICAL RM 1807	07/21/13
4	ISSUED FOR TENDER	08/20/13

drawing title: **PANEL SCHEDULES DETAIL / TABLE DES CIRCUITS DES PANNEAUX**

project title: **OTTAWA 335 RIVER ROAD VETEVY ACCUMULATION CELLS ELECTRICAL INFRASTRUCTURE UPGRADES**

project sheet: **ONTARIO**

designed by: MB

approved by: FH

date of project: 2012/7/24

project no: RR-080-J2218

drawing no: E4.1