ELECTRICAL SPECIFICATION

GENERAL PROVISIONS

DEFINITIONS

"Provide" means supply and install.

"Approval" means approval in writing from the Consultant or authorities having jurisdiction.

"Consultant" means the Engineer or the consulting engineering firm.
"Owner" means the owner or owner representative.

GENERAL CONDITIONS

Conform to requirements of the General Conditions. Provide all labour, materials, products, equipment, services and all incidentals required to complete, test and commission all electrical work shown on the drawings and/or noted hereunder.

All work shall be complimentary to the existing installations. Generally, the standard of work shall be equal to or better than that of the existing installations. Additions and/or changes to existing systems shall be made using equipment identical to that already used in the existing installation, unless specifically indicated otherwise.

Electrical work shall be carried out by a contractor holding a valid Contractor's license and qualified electricians who hold valid Ontario Certificates of Qualification.

CODES AND STANDARDS

Do complete installation in accordance with applicable codes, including but not necessarily limited to current electrical code CSA C22.1, pertinent ESA (Electrical Safety Authority) bulletins, Ottawa Hydro, and the requirements of all authorities having jurisdiction.

PERMITS AND FEES

Obtain permits necessary for the execution of the electrical work. On completion of the work furnish copies of the Certificates of Acceptance from the Inspection Authority and pertinent authorities having jurisdiction. Pay all associated costs and fees, including local supply authority (Hydro-Ottawa) Service Requests, and any premiums associated with work schedule.

WARRAN

Warrantee all work, materials, equipment and installations to be free of all defects, for 12 months from date of acceptance by the Owner or Owner's representative.

SITE VISIT

Acquire full working knowledge of building site and any existing conditions which may affect the work. Visit site prior to Tender submission.

CONTRACT DRAWINGS

Contract drawings for electrical work, are in part diagrammatic, intended to convey the scope of work and general arrangement of equipment, conduit and outlets. Before installation, verify the physical location of all electrical equipment with all other installations and report any obstructions or interferences. No extra payments arising from failure to make this verification will be considered.

Drawings indicate the general layout of the complete electrical system, arrangement of feeders, circuits, outlets, switches, controls, panelboards, distribution centres, light fixtures and other work.

The drawings indicate the general location and routes to be followed, but do not show all conduit and/or wiring or all the structural, mechanical and architectural details. Plan and install conduit runs respecting all applicable conditions including structural, architectural and mechanical details. Bring obvious discrepancies or omissions to the attention of the Consultant during the Tender Period, at least five working days prior to Tender Closing.

SHOP DRAWINGS

Submit six (6) copies of shop drawings, stamped by the electrical contractor, to the Consultant with transmittal for review. Review of shop drawings indicates only that the quality and general design of the equipment is acceptable. Verification of detailed design compliance, dimensions and quantities, or the location of connections to equipment, shall be the responsibility of the Contractor. Contractor shall verify shop drawings prior and after review by consultant to ensure proposed equipment suitable with proposed installation by the contractor.

Review of breaker quantities in electrical panel shop drawings shall be sole responsibility of the contractor.

Show details of construction, dimensions, capacities, weights, all electrical data and performance characteristics, on shop drawings. All wiring diagrams, control schematics and descriptions of operation must also be included. Submit shop drawings for:

 Power distribution equipment, including Electrical Kiosk, Panelboards, breakers, disconnect switches, photocells, meter base, lighting contactors, etc.

DEMONSTRATION AND INSTRUCTION

Provide demonstration and instruction sessions to familiarize facility operation and maintenance personnel with electrical systems and their operation and maintenance in both manual and automatic modes of operation.

COMMISSIONING

General Electrical Installation:

General Electrical Installation:
Inspect, test and commission all equipment and work provided under
this contract to demonstrate and verify correct operation. Rectify and
replace, at no cost to the Owner, any faulty operation and faulty
equipment.

Prior to energising, megger all feeders using a 500V instrument for up to 347V systems, and record results on approved verification forms. Check insulation resistance to ground before energizing. Perform ground continuity and resistance tests using method appropriate to site conditions and to approval of Engineer and local authority having jurisdiction over installation.

OPERATION AND MAINTENANCE MANUAL

Submit one manual to the Consultant for approval prior to formal submission of three copies to the Owner. Include in manuals, information based on the requirement listed under shop drawings. Operation and maintenance data to be sufficiently detailed with respect to design elements, operational procedures, technical data, construction features, component functions and maintenance requirements to permit effective start—up, operation, maintenance, repair, modification, extension and expansion of any portion of the system. Include testing and commissioning results and certificate of acceptance by authorities having jurisdiction.

AS BUILT DRAWINGS

Submit to the Owner one complete set of prints of drawings showing accurate as—built electrical installations including all conduit and wiring. Revisions shall be noted in red ink.

PROTECTIO

Take precautions to protect the occupants and personnel from injury due to live circuits. Protect all finished and unfinished work from damage due to carrying out this work. Also provide full dust protection during construction. Keep equipment dry and clean at all times. Protect all existing services to remain in and around the areas of renovations. PROTECT ALL TREES. DURING WORKS ADVISE THE OWNER IF/WHEN A TREE IS DAMAGED.

EXISTING SERVICES

Give the Owner ample notice of each necessary interruption of electrical service during the course of the work. Unavoidable interruptions to existing systems/installations, if any, shall be of the shortest possible duration and each such interruption shall require the specific approval of the Owner. Submit a schedule of all anticipated interruptions, identifying exactly what the interruption is, how long it will be, when it is planned to occur and which area(s) will be affected. Give the Owner a minimum of two weeks notice related to each necessary interruption. The Owner reserves the right to deny approval for an interruption on any specific date or time. In this case, an alternative time shall be mutually selected. Refer also to phasing/work schedule of the project.

DEMOLITION

Render safe the installations at locations from which the existing installations and equipment has been removed as part of this work. Remove from the site all existing equipment and materials, which becomes obsolete as a result of this work except where specifically noted otherwise.

CUTTING AND PATCHING

Arrange for the General contractor to do all cutting/core drilling and patching required for the electrical installations. Before carrying out any cutting, obtain written approval from the Owner.

CLEAN UP AND REPAIR

Carry out the required cleanup at the end of each day in work areas. Remove all tools, equipment, ladders and empty cardboard boxes etc. and leave the premises clean.

The Electrical Contractor shall also be responsible for making good any damage caused directly or indirectly as a result of his work.

SEISMIC REQUIREMENTS

Electrical contractor shall retain and pay for the services of a Structural Engineer liscenced in Ontario to provide stamped shop drawings for seismic support system to suit the electrical installation. Provide letter of compliance from Structural Engineer.

MATERIALS TO REMOVE AND/OR TO CONSERVE

Reuse existing materials as indicated. All non—reused materials must be offered to the owner for first right of refusal. The contractor becomes the ower of all materials that the owner does not keep. Ensure the continuity of all circuits cut by demolition, restoration and repair work. The destination or path of the circuits were not traced during the site review. The electrical contractor must give special attention to the circuits during the work and will proceed as such:

- If the circuit is in use; determine the load and identify it. If the circuit wiring is not of sufficient length; provide a transition junction box, extend the wire with similar size and type using a compression lug, and insulate with shrink tubing.
- If the circuit is no longer used; remove the wiring, place the breaker in the off position and identify the circuit as SPARE.
- In both cases, correct the As—Built Plan and Breaker Panel
- Schedule.

 If the existing installation contains multiple revenue meters; identify the circuits corresponding to each meter and ensure that the existing circuits are similarly fed from the new revenue

GENERAL MATERIALS

MATERIALS AND EQUIPMENT

Equipment and material supplied as part of the electrical work shall be new and CSA approved for the application.

CONDUIT

Wiring shall be in conduit unless specifically indicated otherwise.

Provide EMT throughout except where specified otherwise. Install

Polypropylene, minimum 180 kg pull strength pull cords in empty
raceways and fasten cords at each end.

FASTENING AND SUPPORTS

Use lead anchors to secure equipment to solid masonry, tile and plaster surfaces. Use expandable inserts to secure equipment to poured concrete. Use toggle bolts to secure equipment to hollow masonry walls or suspended ceilings. Support groups of conduits and cables, and equipment on 41mm x 41mm x 2.5mmthick galvanized channels equal to Unistrut P—series, using clips, spring loaded bolt, cable clamps and the like, designed as accessories to basic channel members. For surface mounting of two or more conduits use channels at 1.5 m or less on centre spacing.

CONDUIT AND CABLE IDENTIFICATION

Colour code conduits, boxes and metallic sheathed cables. For boxes, identify the cover as well as inside each box. Follow base building system of identification. Otherwise agree on identification system with the Consultant.

WIRIN

Type RW-90 copper, 600V to maximum #10 AWG and 1000V #8 and larger, XLPE insulation. Solid conductors to #10 AWG, stranded conductors #8 AWG and larger. Minimum branch circuit conductors shall be #12 AWG except for 120V control circuits, minimum size of wire shall be #14 AWG. Wiring for branch circuits shall be sized to limit the voltage drop from the Panelboard to the furthest outlet to 2% when carrying 80% of the branch circuit breaker rated current.

WIRING IDENTIFICATION

Identify wiring with permanent indelible identifying markings either numbered or coloured plastic tapes, on both ends of phase conductors of feeders and branch circuit wiring. Colour code: to CSA C22.1.

GROUNDING / BONDING

Bond to ground all equipment with approved fittings and bond conductors of ample capacity as required by Grounding to CSA C22.1, "Electrical Safety Code".

Install complete permanent, continuous, system and circuit, equipment, grounding/bonding systems including, electrodes, conductors, connectors, accessories, as indicated, to conform to requirements of Consultant, and local authority having jurisdiction over installation. Provide insulated ground wires for all branch circuits and motor circuits by running the bonding wires in the same conduit as follows: For branch circuits using shared neutrals, install one bonding wire per neutral.

For circuits using individual neutrals for each circuit, use one bonding wire per circuit.

Minimum size of bonding wire to be #12 AWG copper. Install

continuous bonding conductors through all conduits/raceways for systems operating above 50 volts, bond at each box and device. Bond to ground all metallic raceways for systems, i.e. fire alarm, telephone, cablevision, voice and data etc.

LIGHTING CONTACTOR

Single magnetic starter minimum size NEMA 4, EEMAC 3R enclosure, separately fused EEMAC 3R Manual/Off/Automatic control switch, EEMAC 3R red LED indicating 'ON', 120V control, 1 NO and 1 NC auxiliary contact, etc. The normal continuous contact current for IEC products must be equal or greater than the NEMA type. Equipment such as starters, boxes, relays, etc. must be by the same manufactures: Allen Bradly, Eaton, Schneider—Square—D, Schneider—Télémécanique, General Electric or Siemens.

DISTRIBUTION PANELBOARDS & PANELBOARDS 600V or 250V Panelboard: FFMAC 2 mains b

600V or 250V Panelboard: EEMAC 2, mains bus, number of circuits, number and size of bolt—on branch circuit breakers and symmetrical interrupting capacity as noted. Panelboards complete with ground bus and 200% rated neutral. Trim with concealed front bolts and hinges. Trim and door minimum 12 gauge, and finished baked grey enamel. Two keys for each panelboard.

MOULDED CASE BREAKERS

Bolt—on moulded case circuit breaker: quick—make, quick—break type, for manual and automatic operation with temperature compensation for 40°C ambient. Common—trip breakers: with single handle for multi—pole applications. Moulded case circuit breaker to operate automatically by means of thermal and magnetic tripping devices to provide inverse time current tripping and instantaneous tripping for short circuit protection.

Interrupting capacity of new breakers must be greater than or equal to the interrupting rating of breakers within panel. If interrupting ratings differ between breakers the highest interrupting rating must be selected. If a series rating is indicated on panel contractor is responsible for purchasing breakers, which maintain the series rating. Breakers supplied by contractor must match the manufacturer of panel.

DISCONNECT SWITCHES

Heavy duty disconnect switches, EEMAC 3R, quick—make/quick—break mechanisms, visible blades, arc quencher for switches rated 600V. Mechanically interlocked cover to prevent opening in 'on' position, except by defeat mechanism. ON—OFF switch position indication on switch enclosure cover. Provision for padlocking in both 'on' and 'off' positions. HRC fuse holders size as indicated.

<u>FUSES</u>

HRC fuses minimum 100,000A I.C. HRCI—J, for ratings 0—600A. Where time delay characteristic (J1 or L1) is indicated, fuses shall carry 500% of rating for 10 seconds and be labeled "TIME DELAY".

EQUIPMENT IDENTIFICATION

Identify all equipment using suitably sized lamacoid nameplates.
Identify at least the following equipment with labels of size appropriate to the equipment.

DRAWING LIST

ELECTRICAL SPECIFICATIONS AND DRAWING LIST

KIOSK #97 (Vincent Massey Park)

ELECTRICAL SPECIFICATIONS AND DRAWING LIST

KIOSK #98 (Vincent Massey Park)

ELECTRICAL SPECIFICATIONS AND DRAWING LIST

E05 KIOSK #203 (Dow's Lake)

E06 KIOSK #226 (QED near Bronson)

E00

E01

E02

E03

E04

E13

E07 KIOSK #231 (QED near Canal Ritz)

E08 KIOSK #235 (QED near Central)

E09 KIOSK #237 (QED near Cooper)

E10 KIOSK #238 (Ralphs St. near QED)

E11 KIOSK #241 (Colonel By near Harwell Locks)

E12 KIOSK #245 (Carlyle St near Colonel By)

E14 KIOSK #365 (Wellington near Lyon)

KIOSK #338 (Booth St)

E15 KIOSK #508 (Tunney's Pasture)

E16 KIOSK #509 (81—135 Prince of Wales Dr)

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Capital Planning and Real Asset Management Branch Direction de l'aménagement de la capitale et gestion de l'immobilier

> Design and Construction Division Division design et construction

director - Daniel Miron - directeur

consultant expert-conseil



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no. description date

ELECTRICAL KIOSK REPLACEMENT

- CORE AREA -

drawing dessin

ELECTRICAL SPECIFICATIONS
AND
DRAWING LIST

approved by approuvé par James Huynh

designed by conçu par D.G.

drawn by dessiné par G.G.

date 2013-09-13 scale échelle As Shown

no. du projet de la CCN no. de la feuille DC4000-19 **EO**

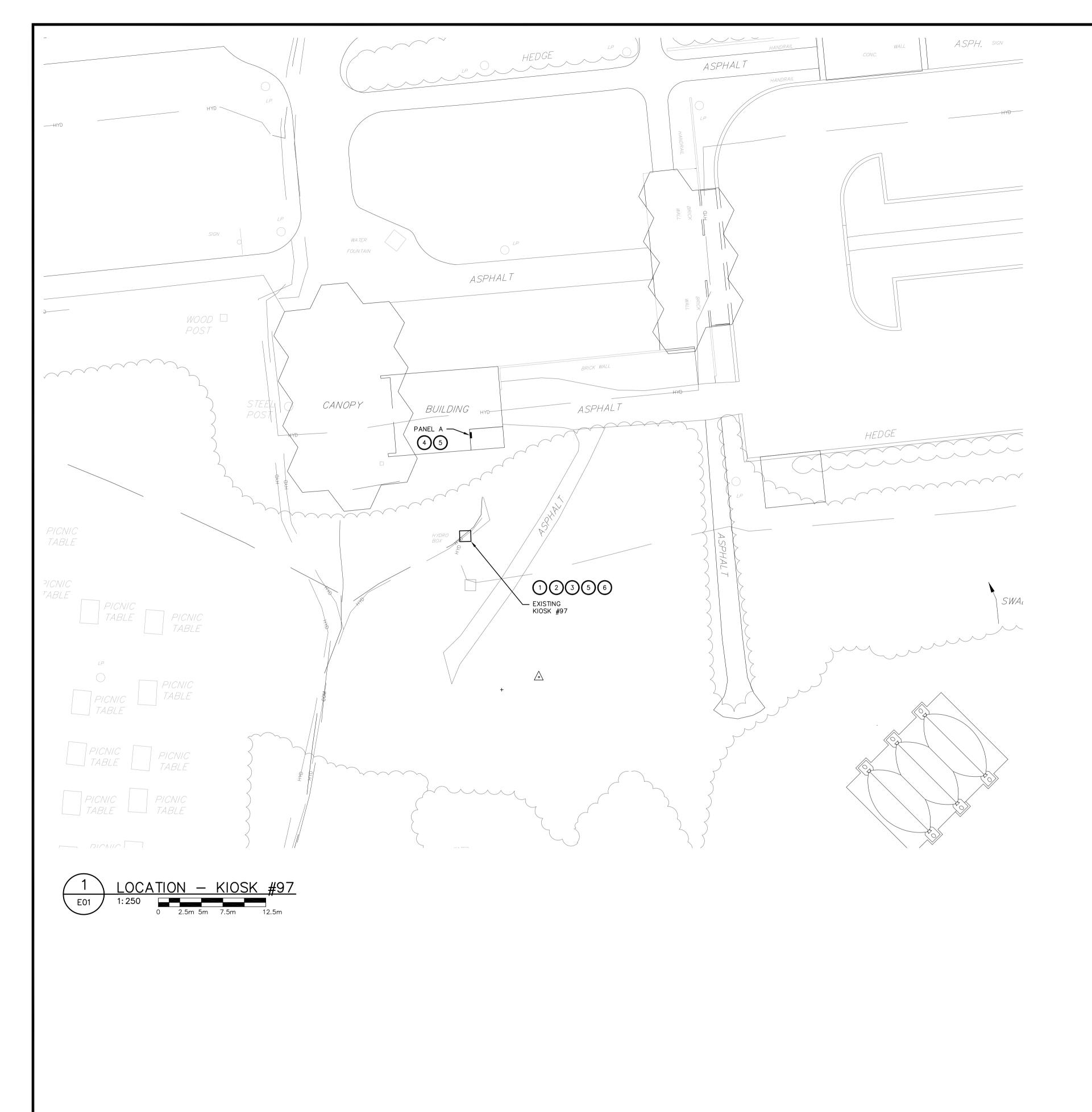
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- 2. EXCEPT AS NOTED OTHERWISE, ALL NEW EQUIPMENT IS SHOWN IN THICK SOLID LINES.
- 3. EXCEPT AS NOTED OTHERWISE, ALL EXISTING EQUIPMENT TO BE DEMOLISHED IS SHOWN IN THICK DASHED
- 4. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO IDENTIFY ON SITE THE EXISTING FEEDERS TO BE REMOVED, RELOCATED, AND EXTENDED.

SPECIFIC NOTES:

- CONTRACTOR TO REMOVE THE EXISTING KIOSK BOX CONTAINING THE TIME CLOCK AND PANEL FEEDING THE PARKING LOT LIGHTING. CONTRACTOR TO ENSURE NOT TO DAMAGE THE FEEDERS TO THE PARKING LOT LIGHTING & THE CONDUIT TO PANEL A.
- CONTRACTOR TO REPLACE THE KIOSK BOX WITH A 12"x12"x6" JUNCTION BOX WITH A STAINLESS STEEL CHECKER COVER TO MATCH THE EXISTING ONSITE.
- 3. CONTRACTOR TO LOCATE THE NEW JUNCTION BOX TO ALLOW THE PARKING LOT LIGHTING FEEDER TO BE RELOCATED WITHOUT HAVING TO SPLICE.
- 4. CONTRACTOR TO REPLACE THE EXISTING 2 POLE, 60A BREAKER FEEDING THE KIOSK BOX WITH 2x20A BREAKERS (TO MATCH EXISTING) AND ALSO PROVIDE A NEW 2 CIRCUIT TIME CLOCK TO FEED THE EXISTING PARKING LOT LIGHTING.
- 5. CONTRACTOR TO PULL OUT THE EXISTING FEEDER FROM PANEL A TO THE KOSK BOX, REROUTE THE CONDUIT WITHIN THE ELECTRICAL ROOM TO ALLOW FOR THE NEW TIME CLOCK INSTALLATION AND REROUTE OR EXTEND THE EXISTING CONDUIT TO THE NEW JUNCTION BOX TO ALLOW FOR THE CONNECTION OF THE PARKING LOT LIGHTING.
- 6. CONTRACTOR TO PROVIDE GRANULAR A MATERIAL AND COMPACT TO 95% TO FILL EXISTING CAVITY. TOP 150mm TO GRADE USING TOP SOIL AND COVER WITH SOD.



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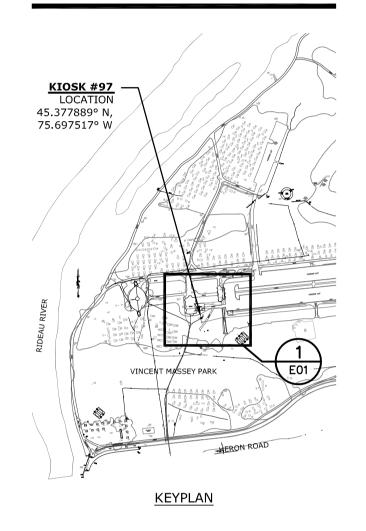
director - Daniel Miron - directeur

consultant expert-conseil



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project projet		

ELECTRICAL KIOSK REPLACEMENT - CORE AREA -

drawing dessin

NCC project no.

DC4000-19

KIOSK #97

(Vincent Massey Park)

approved by approuvé par James Huynh

designed by conçu par D.G.

drawn by dessiné par G.G.

date 2013-09-13 scale échelle As Shown

no. du projet de la CCN no. de la feuille

6 NEW SINGLE LINE DIAGRAM

N.T.S.

KIOSK #97 EXISTING SINGLE LINE DIAGRAM

-4x#2+GRD IN EXISTING CONDUIT

-- PARKING LIGHTING

ELECTRICAL ROOM

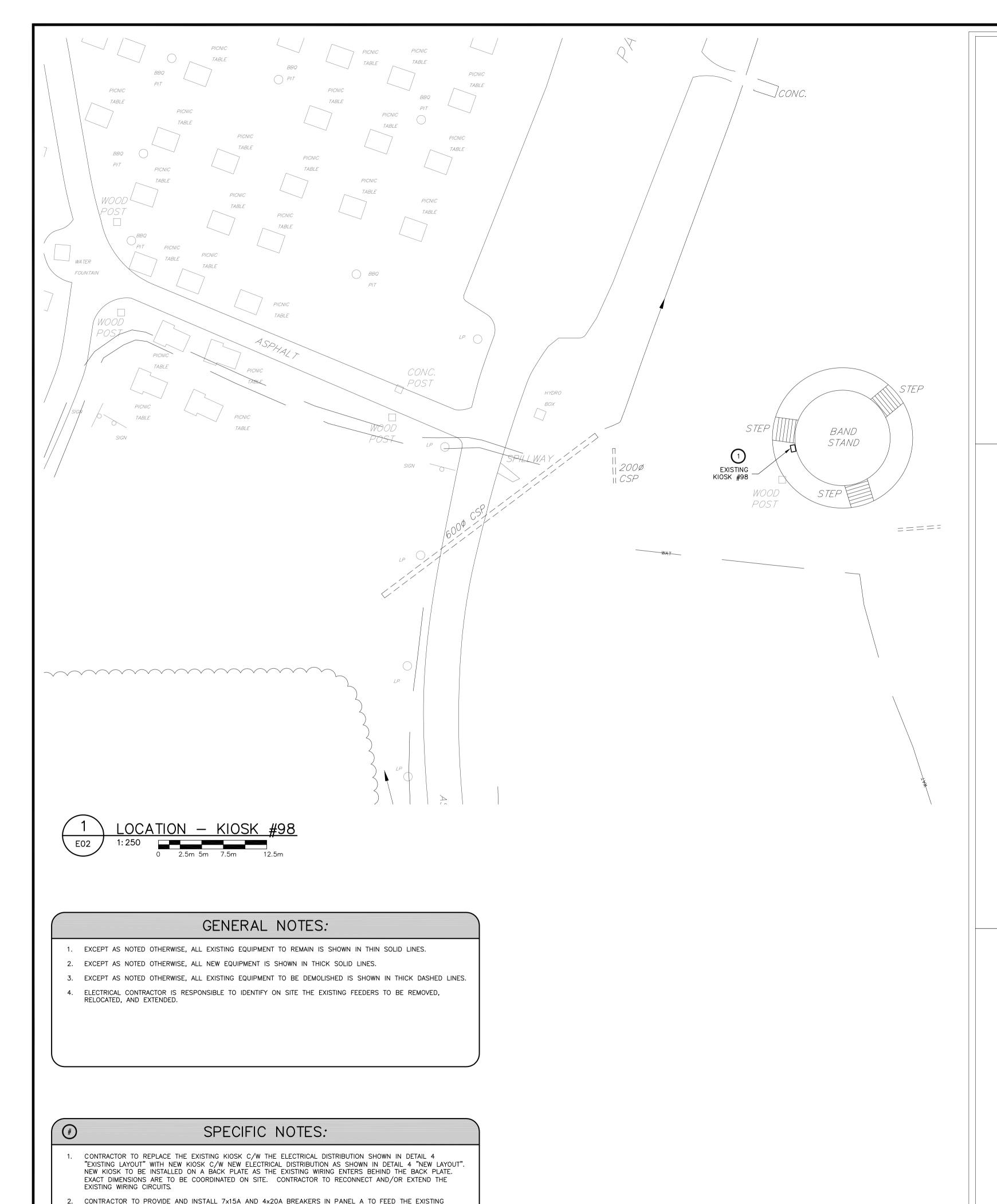
PANEL

ELECTRICAL ROOM

National Capital Commission - Commission de la capitale nationale

sheet size: ISO_A1

sheet no.





NOTE:

1. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.

- 2. ELECTRICAL CABINETS MUST BE SUPPLIED COMPLETE WITH:

 FORMED 12 GAUGE, 316 STAINLESS STEEL BODIES & DOORS

 WEATHERPROOF DESIGN TO EEMAC/NEMA 4

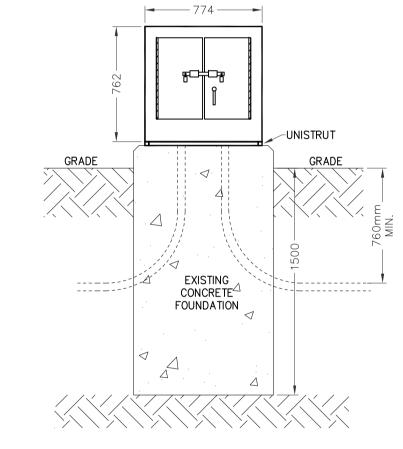
 PIANO HINGED DOORS
 - SECURED LATCHING SYSTEM

GREEN OR APPROVED EQUIVALENT

- DUAL LOCKING SYSTEM - SMOOTH CONTINUOUS WELDED SEAM CONSTRUCTION
 - FINISH TO BE POWDER COATED EPOXY, ANTI-GRAFFITI, COLOUR MUNSELL 9GY 1.5/2/6

- REMOVABLE INNER PANEL (16 GAUGE c/w COLLAR STUD)
 CUT-OUT AT BOTTOM AS PER BOTTOM VIEW
 GROUND STUD IN CABINET AND BONDING STUDS ON DOORS
 THREE POINT DOOR LATCH
- (PC) PHOTOCELL
 -- MANUFACTURER: BEL PRODUCTS OR APPROVED EQUIVALANT
 INSTALL AND ANCHOR GALVANIZED STEEL UNISTRUT AROUND THE BASE OF THE KIOSK WITH A
 NEOPRENE GASKET, LEVEL AND ALIGN KIOSK BY SHIMMING UNITED THE ENGLES DOORS ARE LEVEL AND ALIGNED, FILL UNEVEN NON-CONTACT AREAS TO THE EXISTING CONCRETE WITH GROUT, AND SEAL UNISTRUT ENDS WITH CLOSE CELL EXPANDING FOAM.

NEW OUTDOOR PEDESTAL MOUNTED KIOSK ENCLOSURE - CONSTRUCTION DETAIL E02



DOOR, LOCK, AND LATCH ASSEMBLY

AS PER "DETAIL 'A' - KIOSK DOOR AND

LOCK PARTS" IN SPECIFICATION SECTION

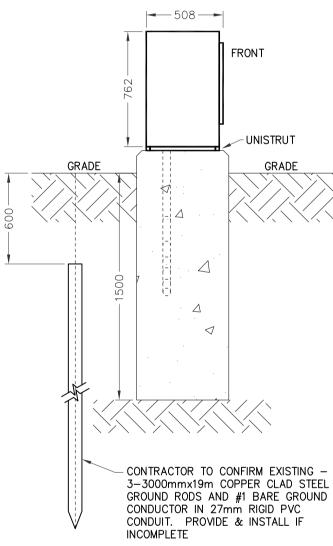
DRAWINGS - SUPPLEMENTARY DETAILS

3D VIEW

EXTERNAL FRONT FACE

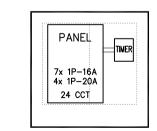
NOTE:

1. ELECTRICAL CABINET TO BE MOUNTED ON EXISTING CONCRETE FOUNDATION.

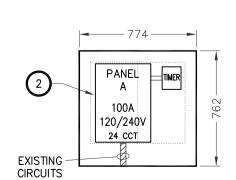


SIDE ELEVATION

NEW KIOSK INSTALLATION DETAIL E02



EXISTING LAYOUT



NEW LAYOUT

INTERNAL LAYOUTS FOR KIOSK #98



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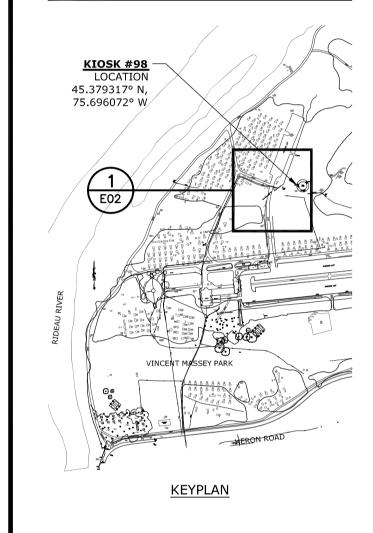
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> **ELECTRICAL KIOSK** REPLACEMENT - CORE AREA -

drawing dessin

KIOSK #98

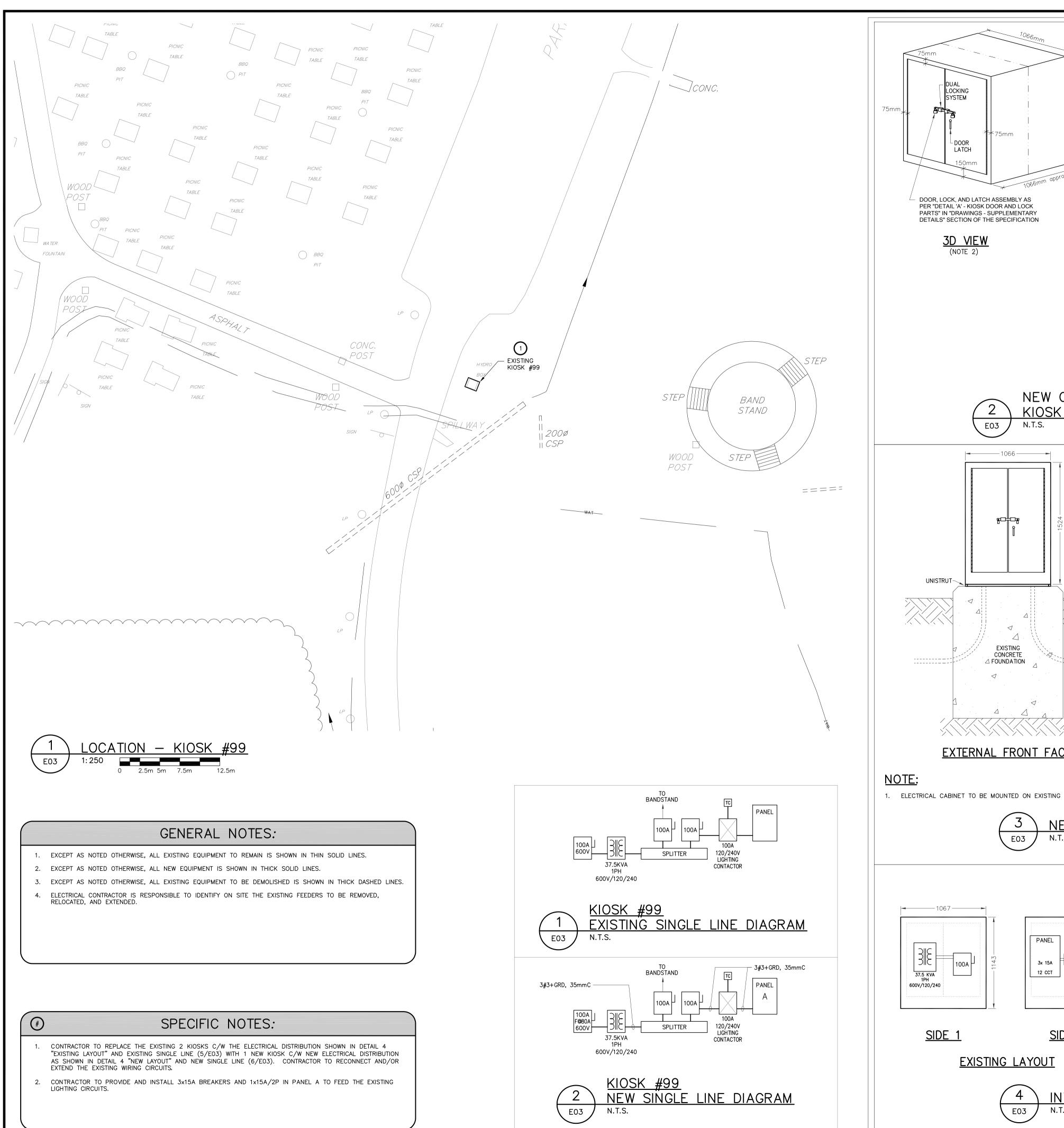
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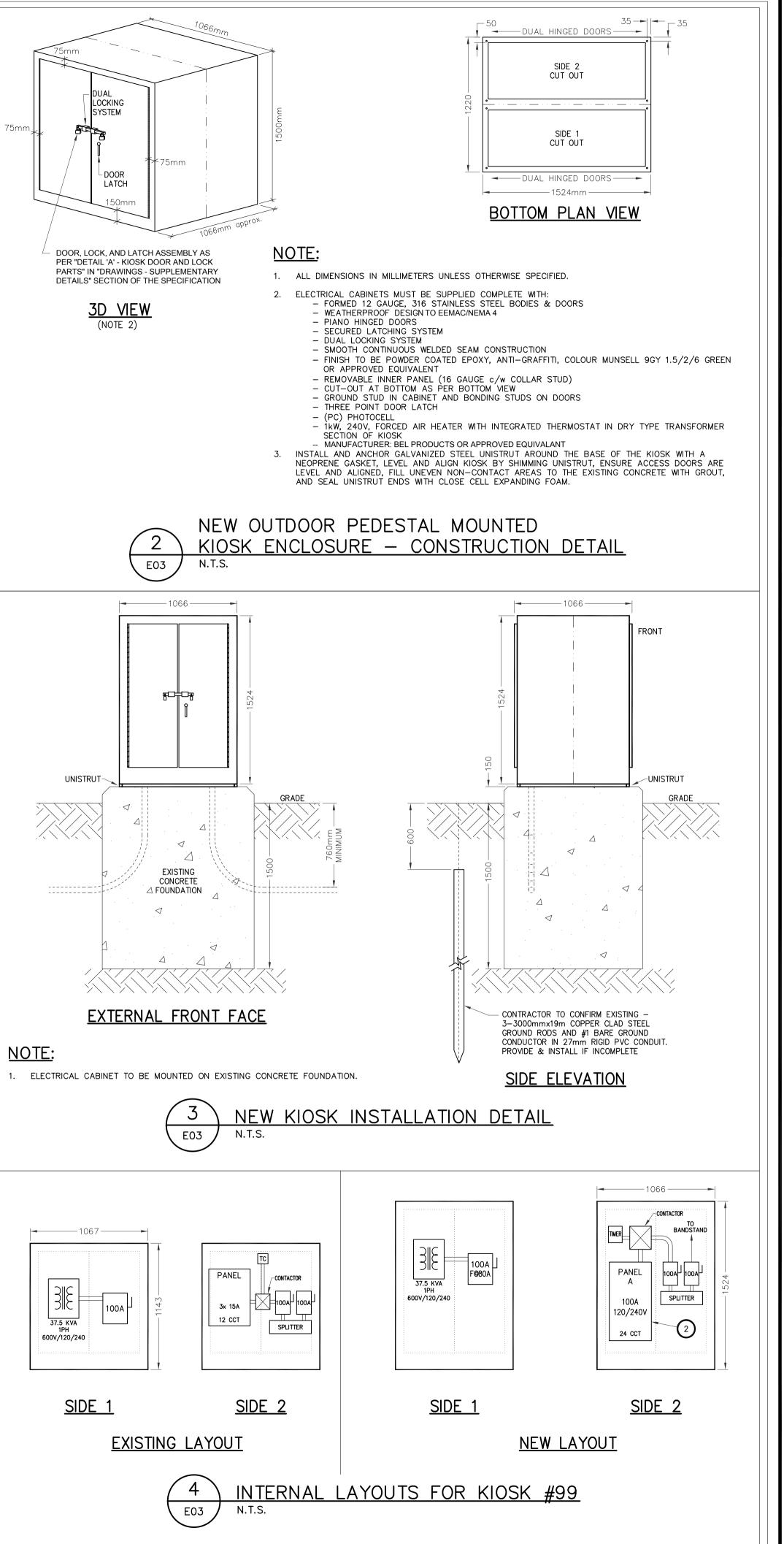
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LIGHTING CIRCUITS.

DC4000-19







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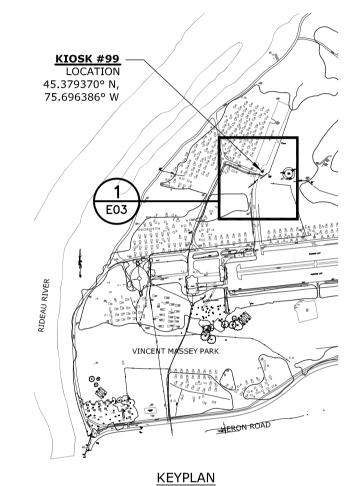
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ELECTRICAL KIOSK REPLACEMENT - CORE AREA -

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projet

KIOSK #99

(Vincent Massey Park)

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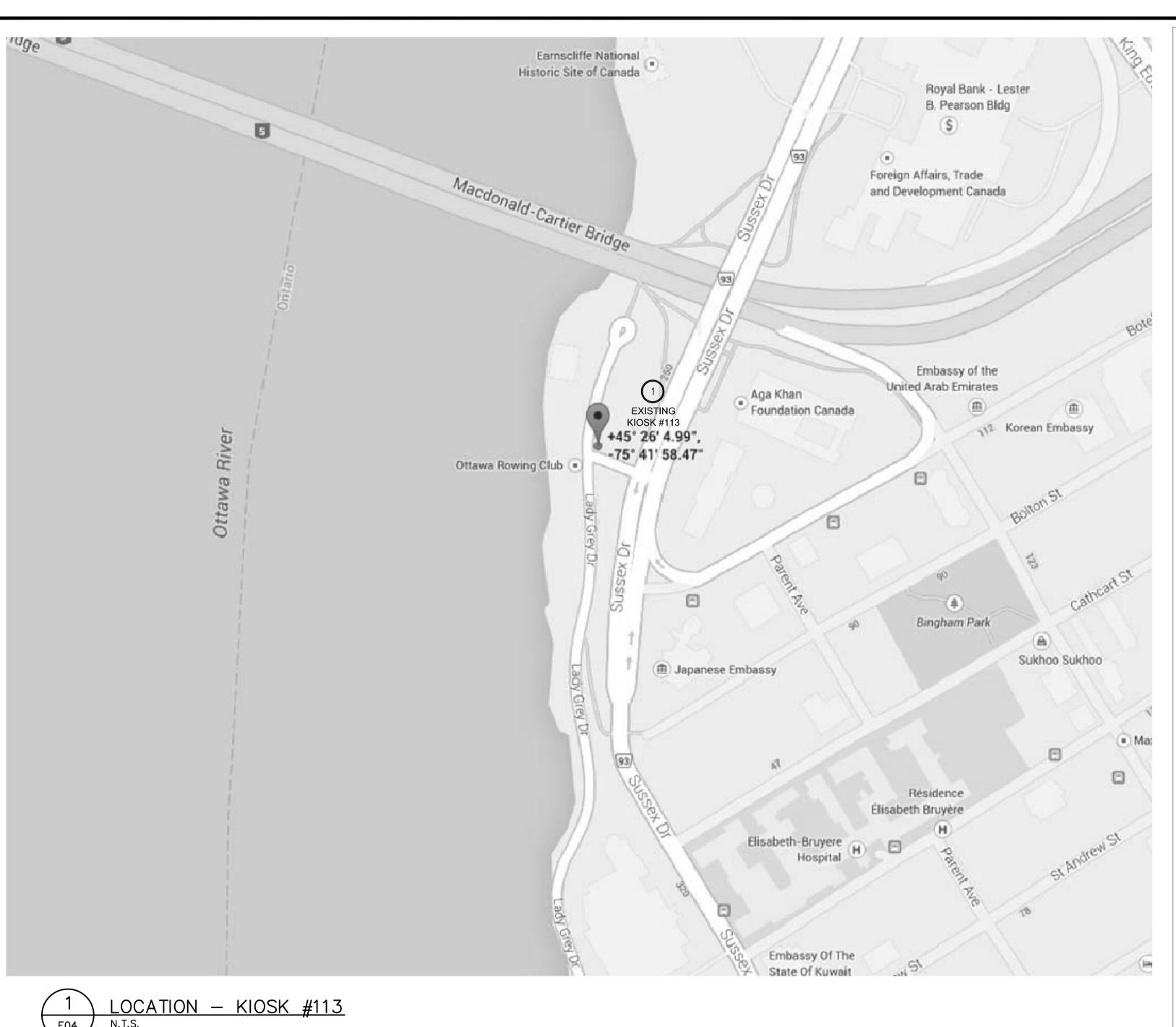
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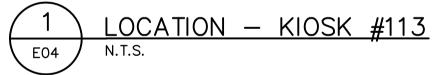
designed by conçu par D.G.

drawn by dessiné par G.G.

date scale échelle As Shown

NCC project no. sheet no. no. du projet de la CCN no. de la feuille

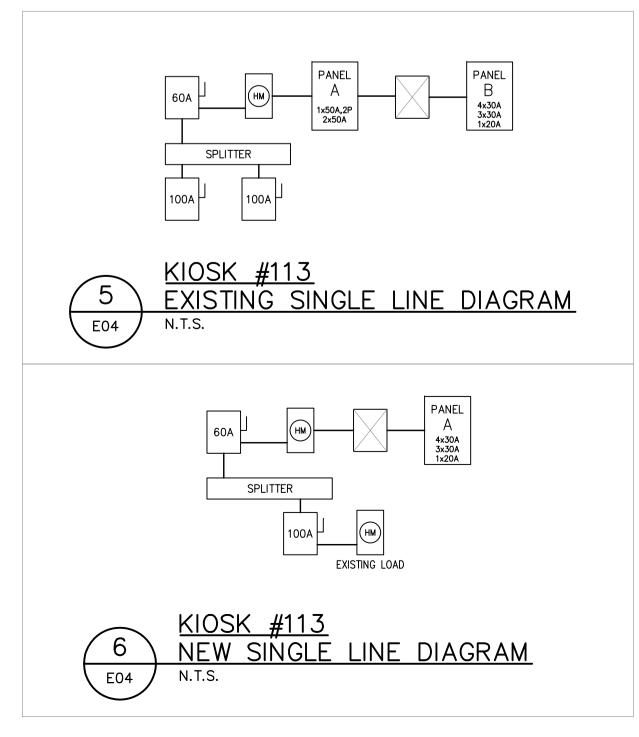


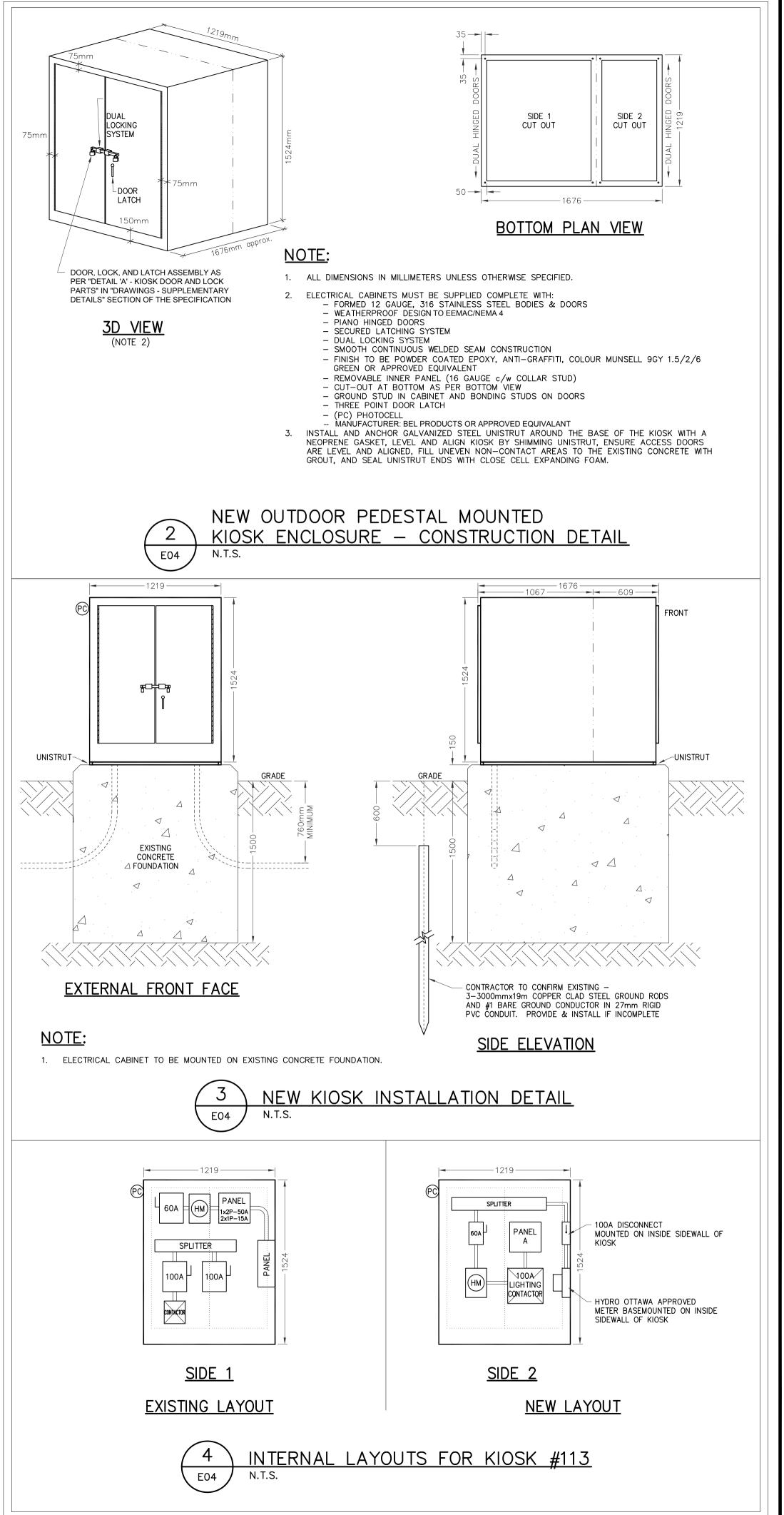


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- 4. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO IDENTIFY ON SITE THE EXISTING FEEDERS TO BE REMOVED, RELOCATED, AND EXTENDED.



- SPECIFIC NOTES:
- CONTRACTOR TO REPLACE THE EXISTING KIOSK C/W THE ELECTRICAL DISTRIBUTION SHOWN IN DETAIL 4 "EXISTING LAYOUT" AND EXISTING SINGLE LINE (5/E04) WITH NEW KIOSK C/W NEW ELECTRICAL DISTRIBUTION AS SHOWN IN DETAIL 4 "NEW LAYOUT" AND NEW SINGLE LINE (6/E04). CONTRACTOR TO RECONNECT AND/OR EXTEND THE EXISTING WIRING CIRCUITS.
- 2. CONTRACTOR TO PROVIDE AND INSTALL 4x15A AND 6x20A BREAKERS IN PANEL A TO FEED THE EXISTING LIGHTING CIRCUITS.







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ELECTRICAL KIOSK REPLACEMENT - CORE AREA -

dessin

DC4000-19

projet

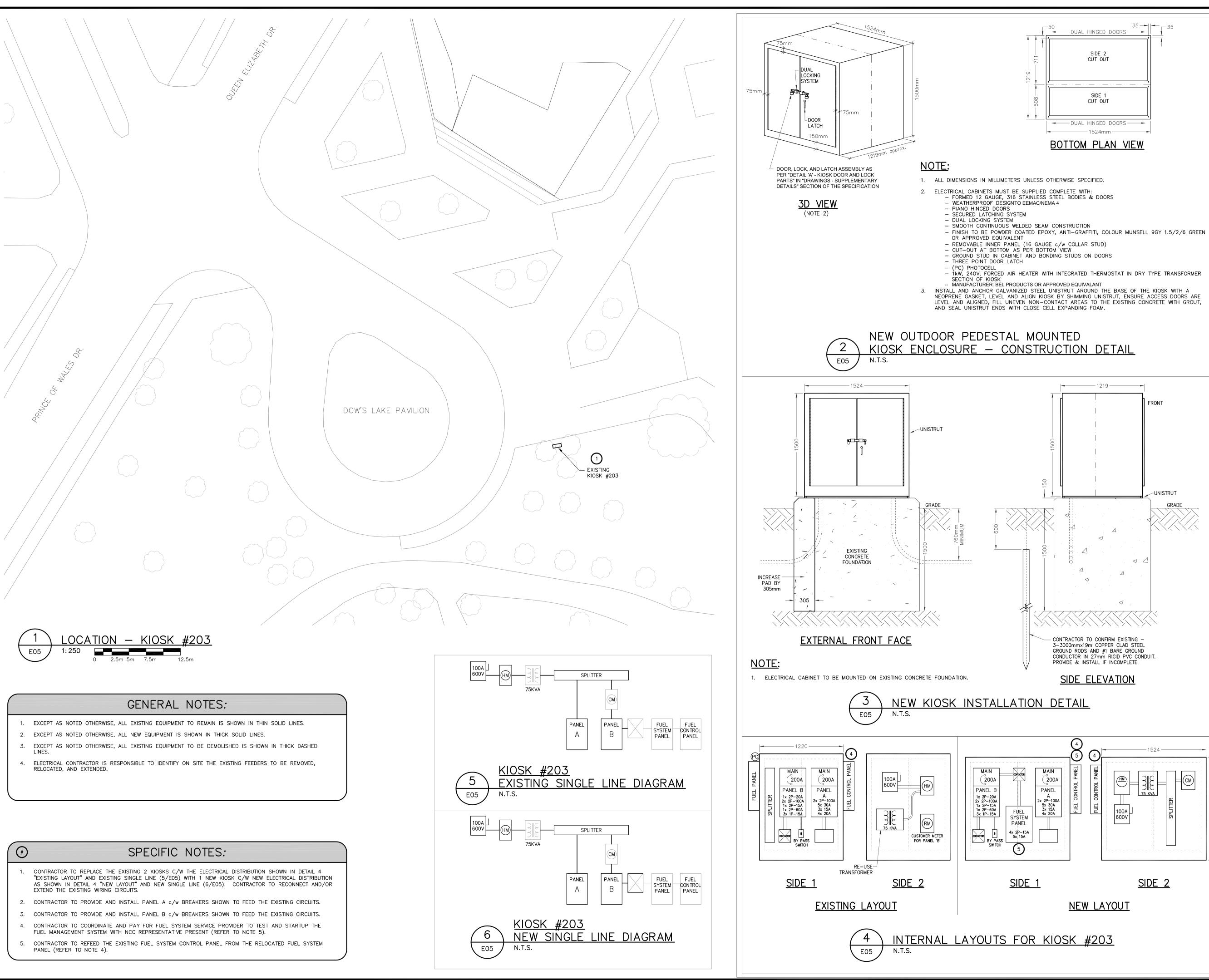
KIOSK #113

(Lady Grey)

approved by James Huynh approuvé par

conçu par drawn by G.G. dessiné par date échelle As Shown NCC project no. sheet no. no. du projet de la CCN no. de la feuille

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-UNISTRUT

V

CONTRACTOR TO CONFIRM EXISTING -3-3000mmx19m COPPER CLAD STEEL

GROUND RODS AND #1 BARE GROUND CONDUCTOR IN 27mm RIGID PVC CONDUIT.

PROVIDE & INSTALL IF INCOMPLETE

SIDE ELEVATION

100A

NEW LAYOUT

SIDE 2

PANEL A 2x 2P-100A 5x 30A 3x 15A 4x 20A

FUEL SYSTEM PANEL

4x 2P-15A 5x 15A

SIDE 1

DUAL HINGED DOORS ---

SIDE 2 CUT OUT

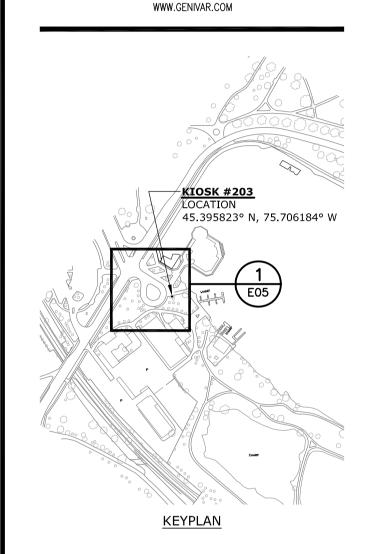
CUT OUT

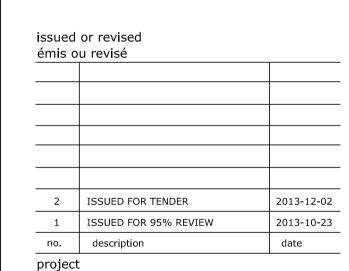
→ DUAL HINGED DOORS - -

BOTTOM PLAN VIEW



300-2611 QUEENSVIEW DRIVE OTTAWA (ONTARIO) CANADA K2B 8K2 TELEPHONE: 613-829-2800 FAX: 613-829-8299





ELECTRICAL KIOSK REPLACEMENT - CORE AREA -

dessin

CM

projet

KIOSK #203

(Dow's Lake)

approved by James Huynh approuvé par conçu par drawn by G.G. dessiné par scale date échelle As Shown

NCC project no. no. du projet de la CCN DC4000-19

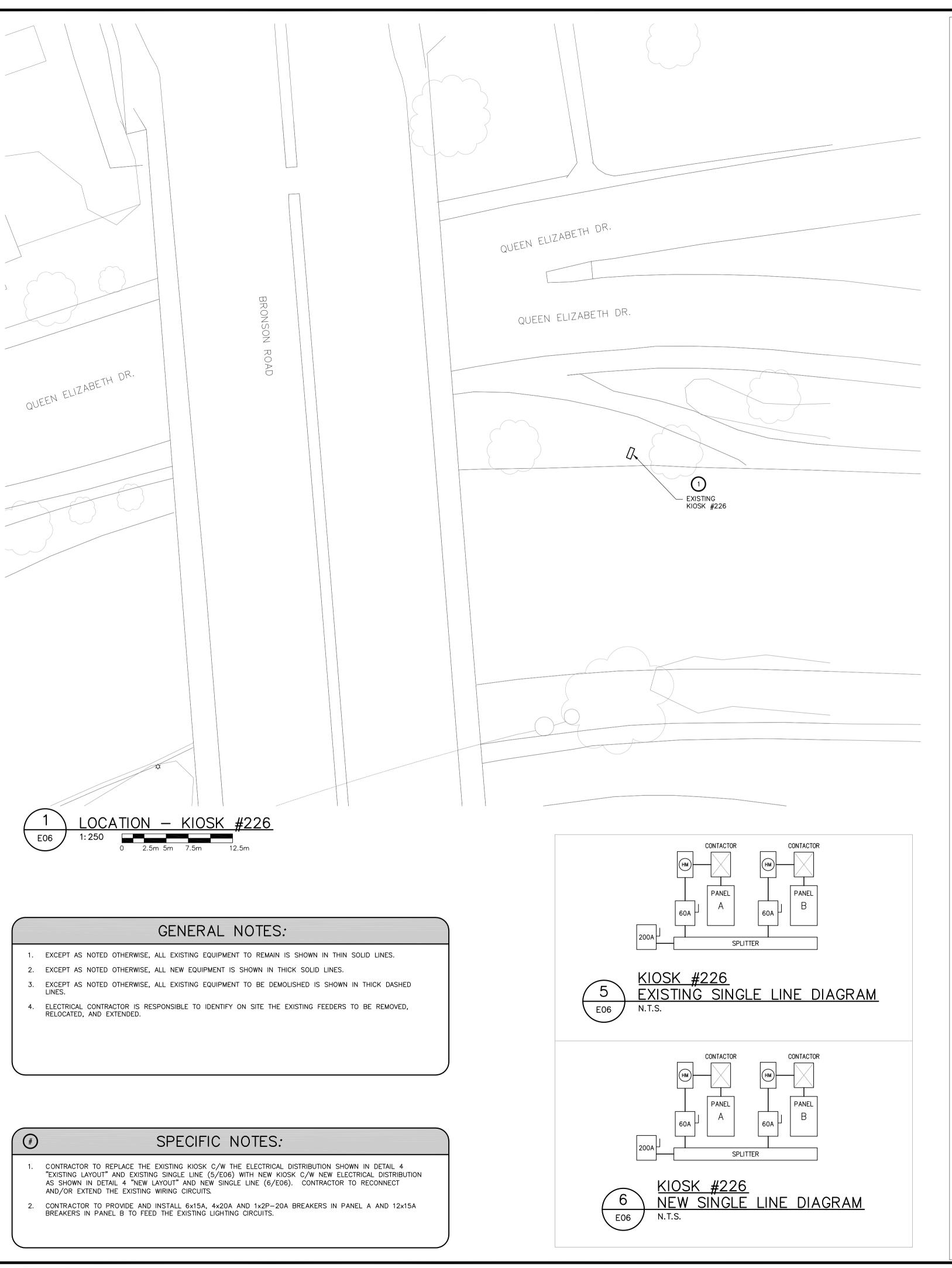
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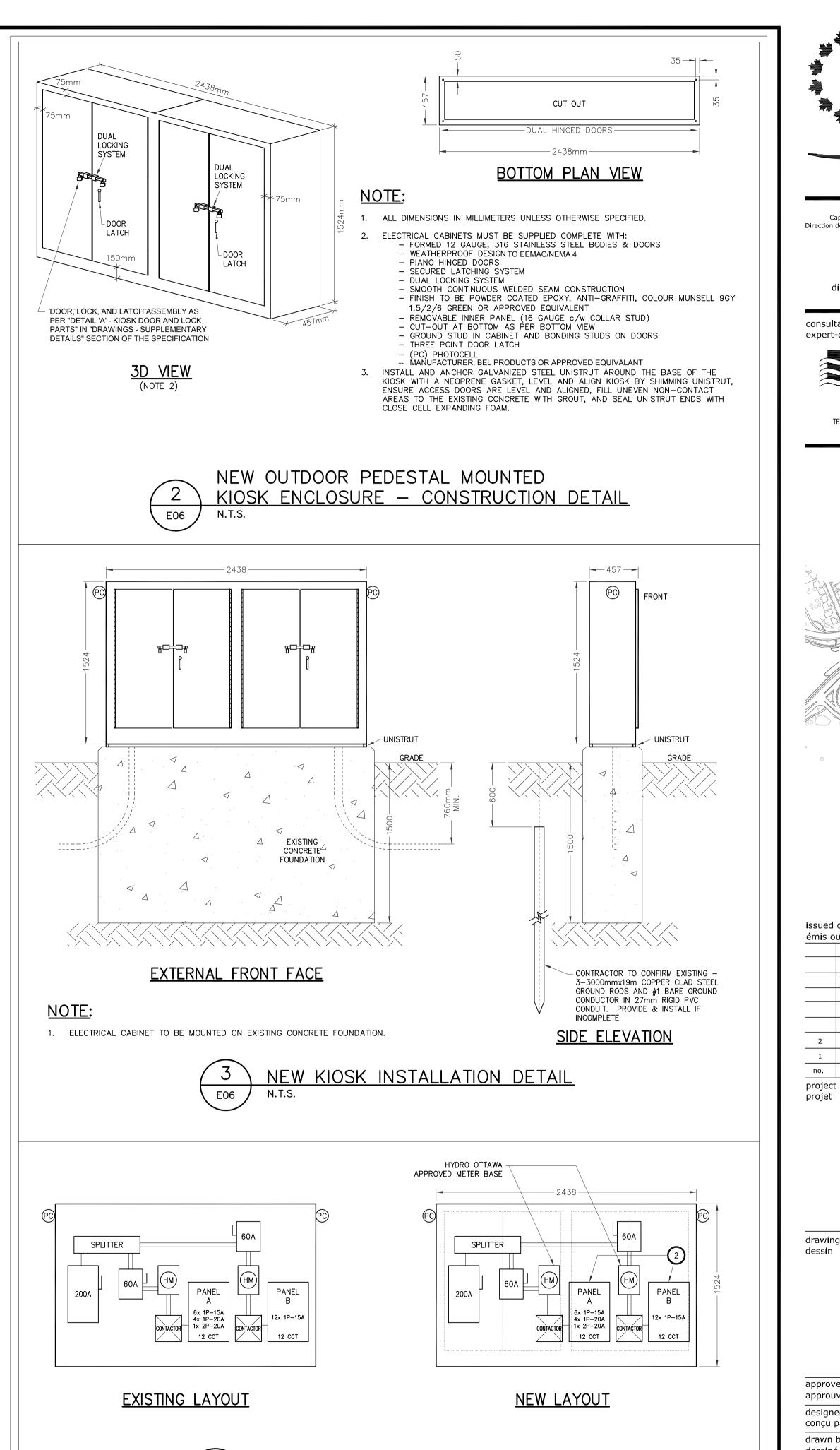
National Capital Commission - Commission de la capitale nationale

sheet size: ISO_A1

Genivar Project # 131-22086-00

sheet no.





INTERNAL LAYOUTS FOR KIOSK #226



Canadä

Capital Planning and Real Asset Management Branch Direction de l'aménagement de la capitale et gestion de l'immobilier

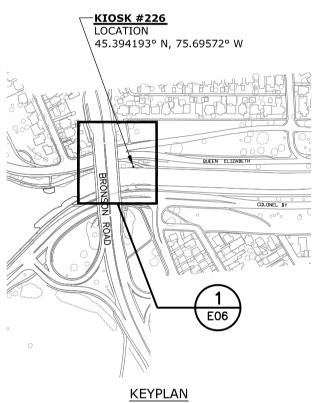
> Design and Construction Division Division design et construction

director - Daniel Miron - directeur

consultant expert-conseil



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ELECTRICAL KIOSK REPLACEMENT - CORE AREA -

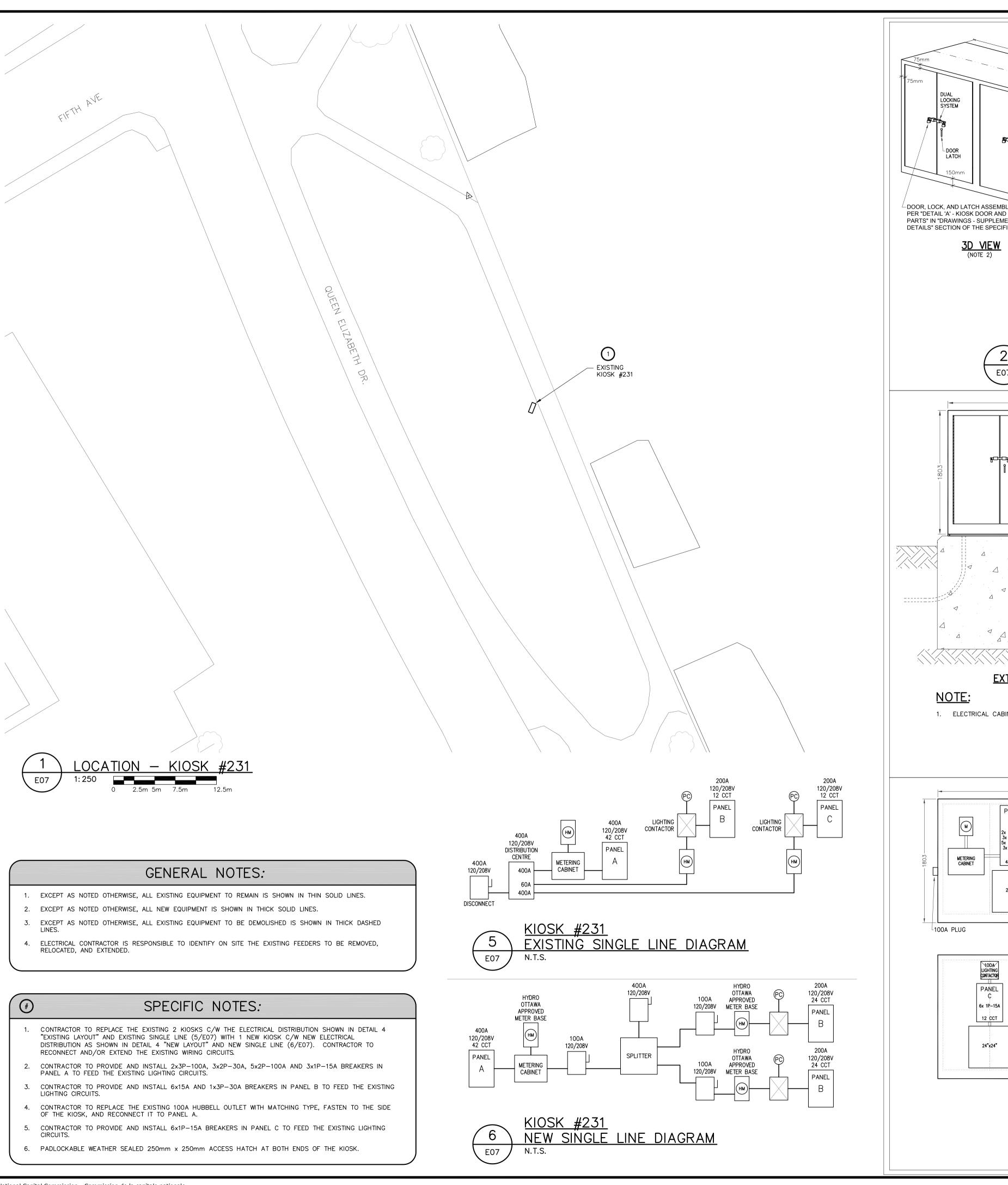
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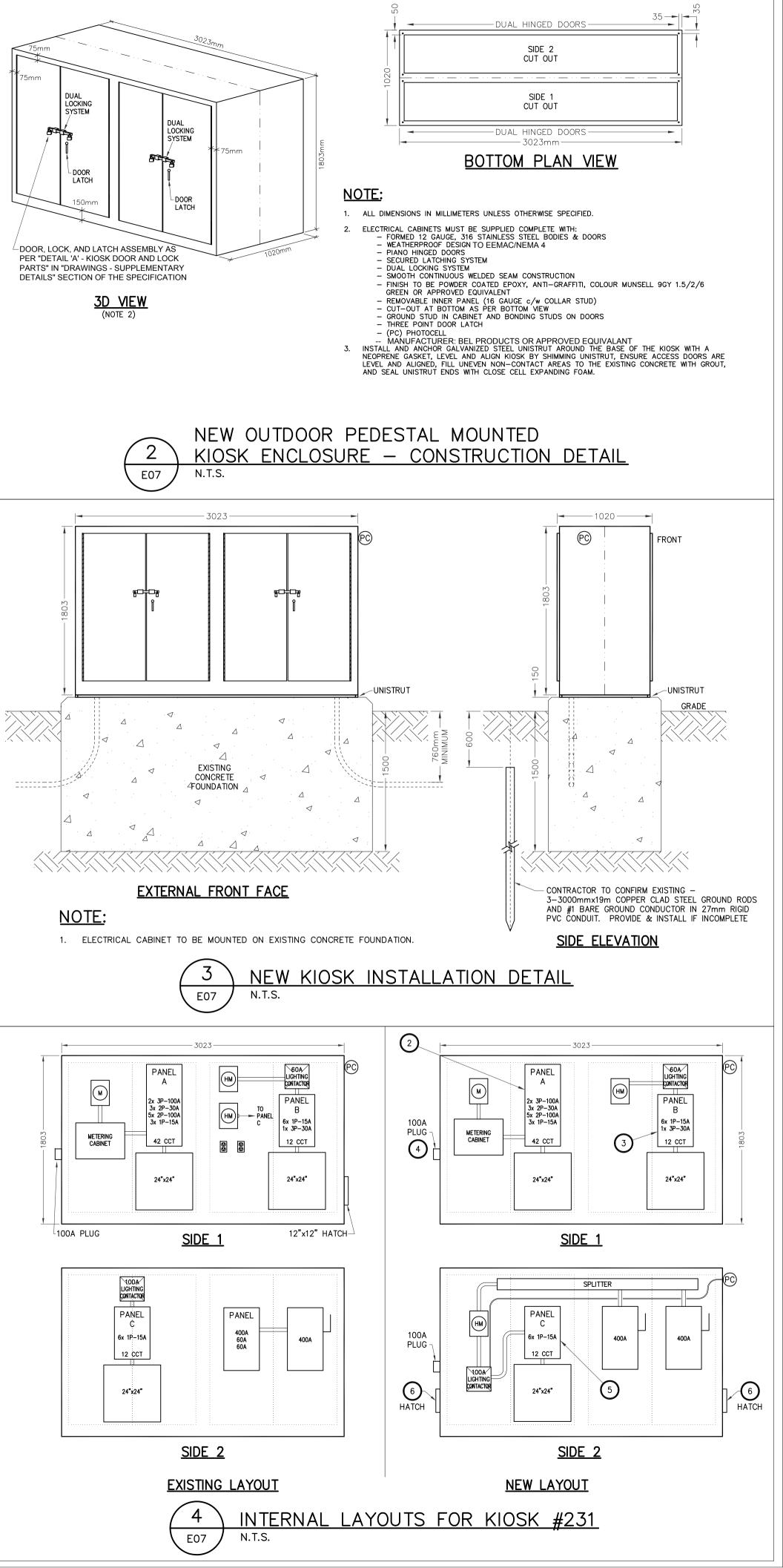
DC4000-19

KIOSK #226

(QED near Bronson)

approved by James Huynh approuvé par conçu par drawn by dessiné par date échelle As Shown NCC project no. sheet no. no. du projet de la CCN no. de la feuille







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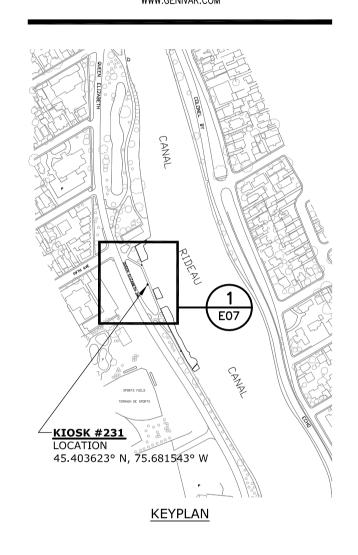
> Design and Construction Division Division design et construction

director - Daniel Miron - directeur

consultant expert-conseil



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projet

ELECTRICAL KIOSK REPLACEMENT - CORE AREA -

drawing dessin

KIOSK #231

(QED near Canal Ritz)

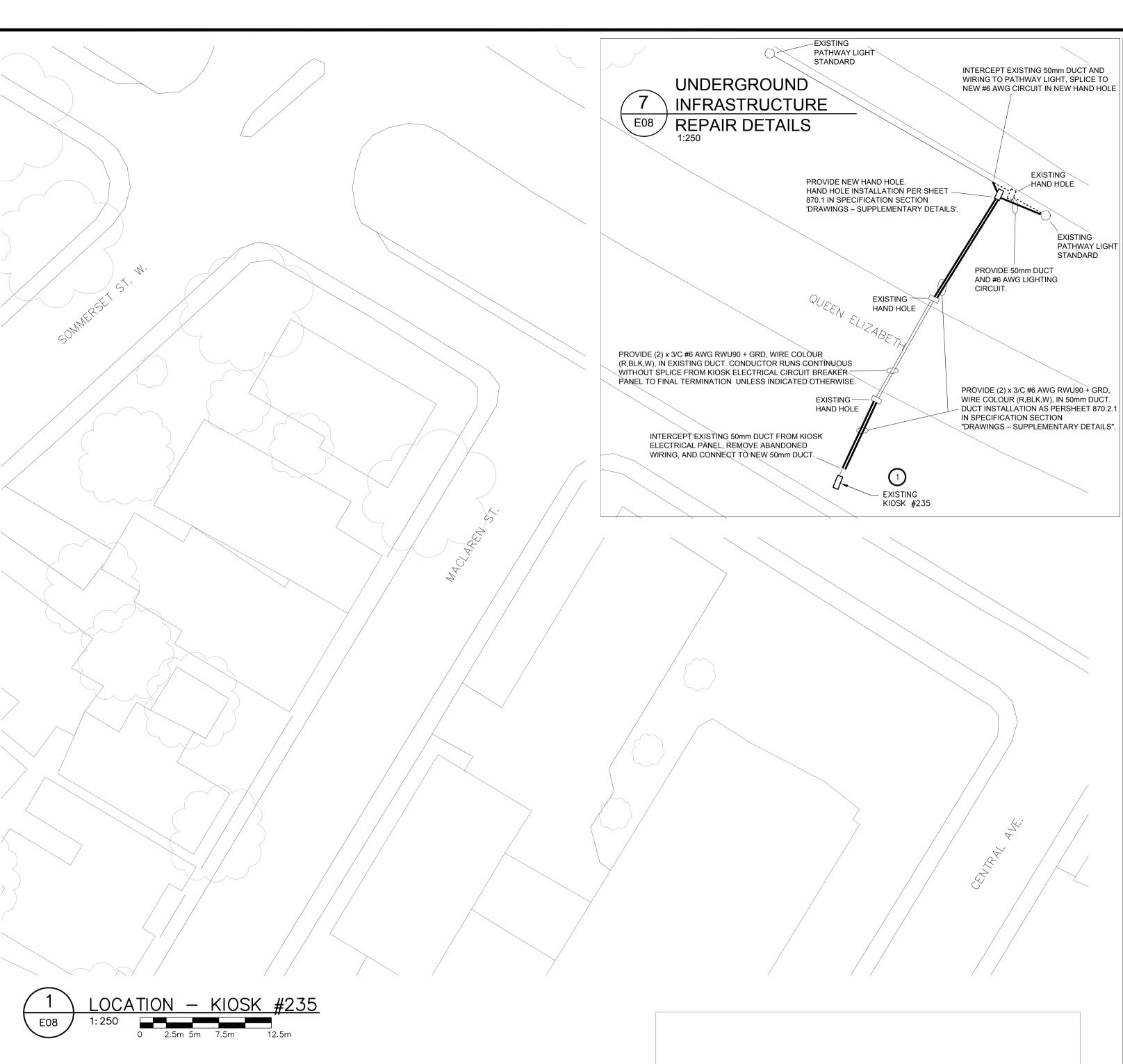
approved by James Huynh approuvé par designed by D.G. conçu par drawn by G.G. dessiné par scale date

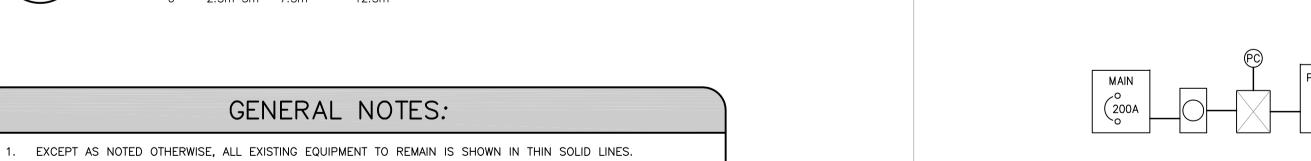
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National Capital Commission - Commission de la capitale nationale

sheet size: ISO_A1

Genivar Project # 131-22086-00

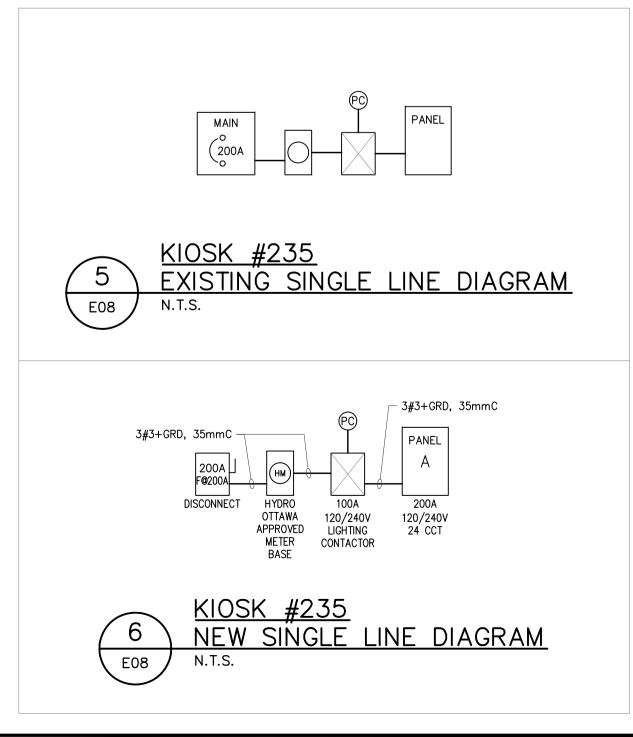


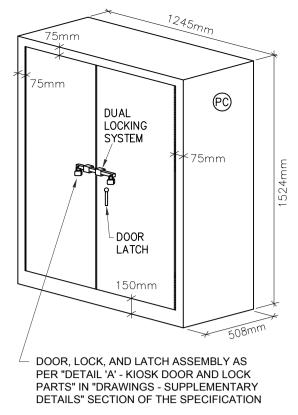


- 2. EXCEPT AS NOTED OTHERWISE, ALL NEW EQUIPMENT IS SHOWN IN THICK SOLID LINES.
- 3. EXCEPT AS NOTED OTHERWISE, ALL EXISTING EQUIPMENT TO BE DEMOLISHED IS SHOWN IN THICK DASHED
- ELECTRICAL CONTRACTOR IS RESPONSIBLE TO IDENTIFY ON SITE THE EXISTING FEEDERS TO BE REMOVED, RELOCATED, AND EXTENDED.

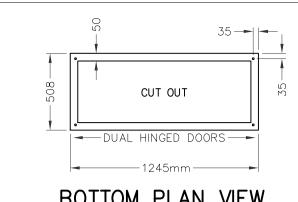
SPECIFIC NOTES:

- CONTRACTOR TO REPLACE THE EXISTING KIOSK C/W THE ELECTRICAL DISTRIBUTION SHOWN IN DETAIL 4 "EXISTING LAYOUT" AND EXISTING SINGLE LINE (5/E08) WITH NEW KIOSK C/W NEW ELECTRICAL DISTRIBUTION AS SHOWN IN DETAIL 4 "NEW LAYOUT" AND NEW SINGLE LINE (6/E08). CONTRACTOR TO RECONNECT
- CONTRACTOR TO PROVIDE AND INSTALL 1x20A/2P AND 12x20A BREAKERS IN PANEL A TO FEED THE EXISTING LIGHTING CIRCUITS.





NOTE:



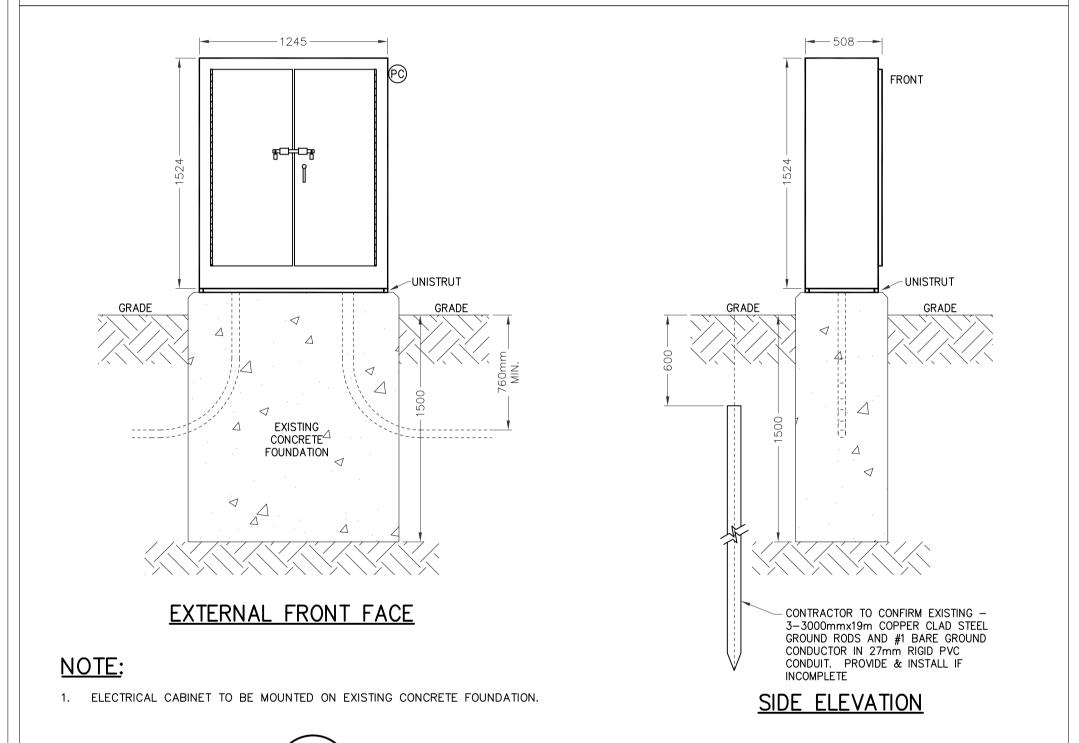
BOTTOM PLAN VIEW

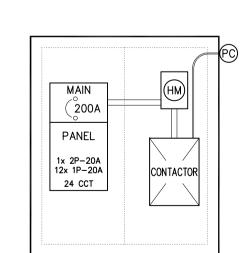
- 1. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
- ELECTRICAL CABINETS MUST BE SUPPLIED COMPLETE WITH:
 FORMED 12 GAUGE, 316 STAINLESS STEEL BODIES & DOORS - WEATHERPROOF DESIGN TO EEMAC/NEMA 4
- PIANO HINGED DOORS - SECURED LATCHING SYSTEM
 - DUAL LOCKING SYSTEM
- SMOOTH CONTINUOUS WELDED SEAM CONSTRUCTION

AND SEAL UNISTRUT ENDS WITH CLOSE CELL EXPANDING FOAM.

- FINISH TO BE POWDER COATED EPOXY, ANTI-GRAFFITI, COLOUR MUNSELL 9GY 1.5/2/6
- GREEN OR APPROVED EQUIVALENT
- REMOVABLE INNER PANEL (16 GAUGE c/w COLLAR STUD) - CUT-OUT AT BOTTOM AS PER BOTTOM VIEW
- GROUND STUD IN CABINET AND BONDING STUDS ON DOORS
- THREE POINT DOOR LATCH
- (PC) PHOTOCELLMANUFACTURER: BEL PRODUCTS OR APPROVED EQUIVALANT INSTALL AND ANCHOR GALVANIZED STEEL UNISTRUT AROUND THE BASE OF THE KIOSK WITH A NEOPRENE GASKET, LEVEL AND ALIGN KIOSK BY SHIMMING UNISTRUT, ENSURE ACCESS DOORS ARE LEVEL AND ALIGNED, FILL UNEVEN NON-CONTACT AREAS TO THE EXISTING CONCRETE WITH GROUT,

NEW OUTDOOR PEDESTAL MOUNTED KIOSK ENCLOSURE - CONSTRUCTION DETAIL





E08

HYDRO OTTAWA -APPROVED METER BASE LIGHTING CONTACTOR PANEL 200A F@200A 200A 120/240V 24 CCT - EXISTING

EXISTING LAYOUT

NEW LAYOUT

INTERNAL LAYOUTS FOR KIOSK #235

NEW KIOSK INSTALLATION DETAIL



Capital Planning and Real Asset Management Branch Direction de l'aménagement de la capitale et gestion de l'immobilier

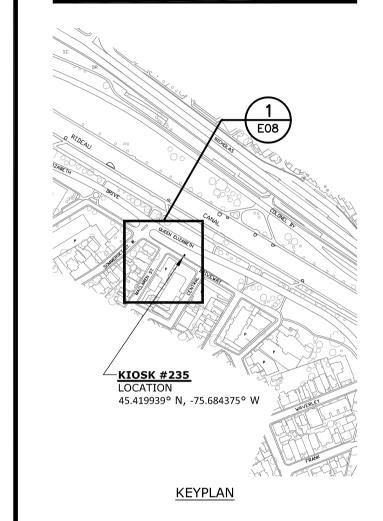
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director - Daniel Miron - directeur

consultant expert-conseil



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project			

ELECTRICAL KIOSK REPLACEMENT - CORE AREA -

dessin

projet

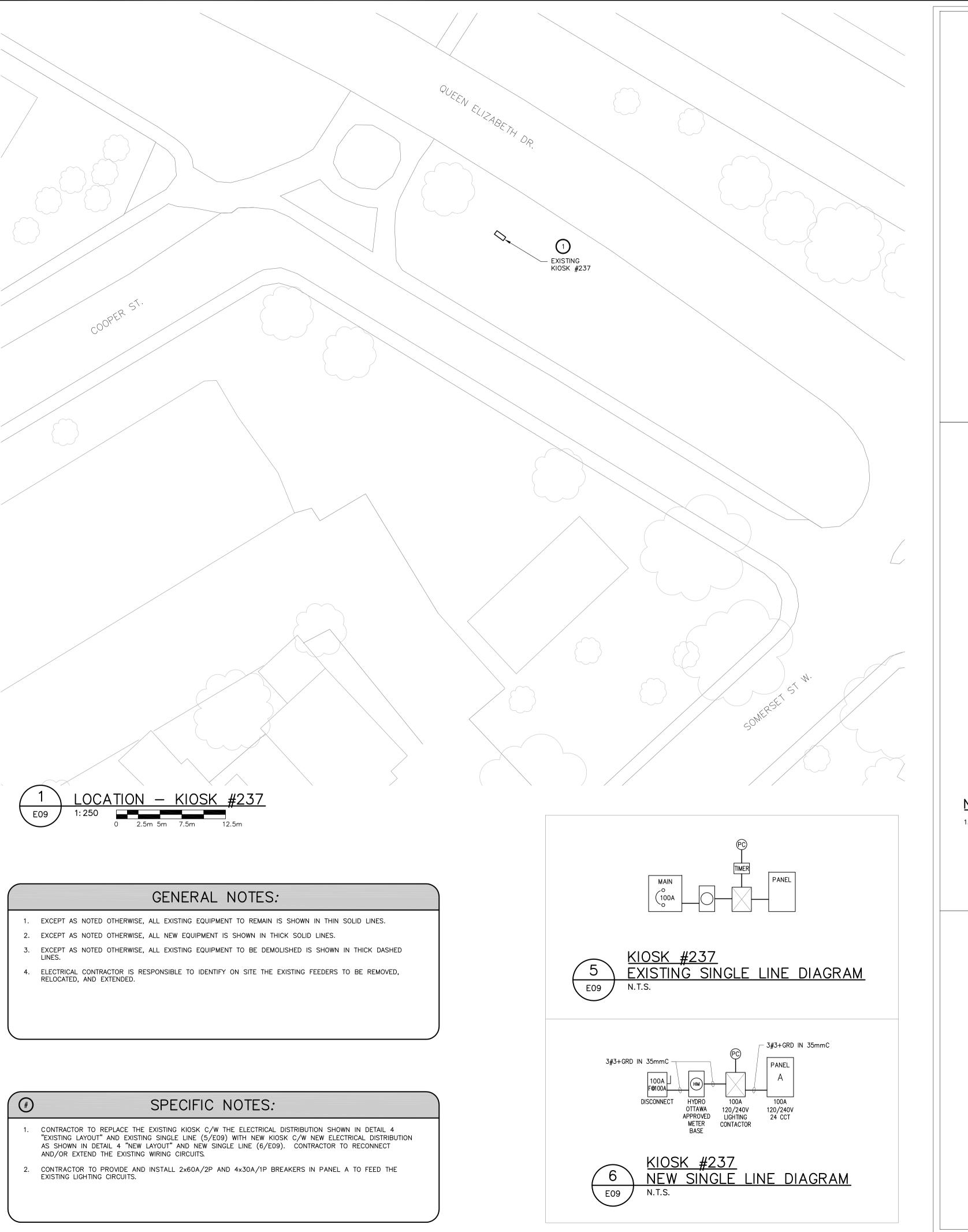
KIOSK #235

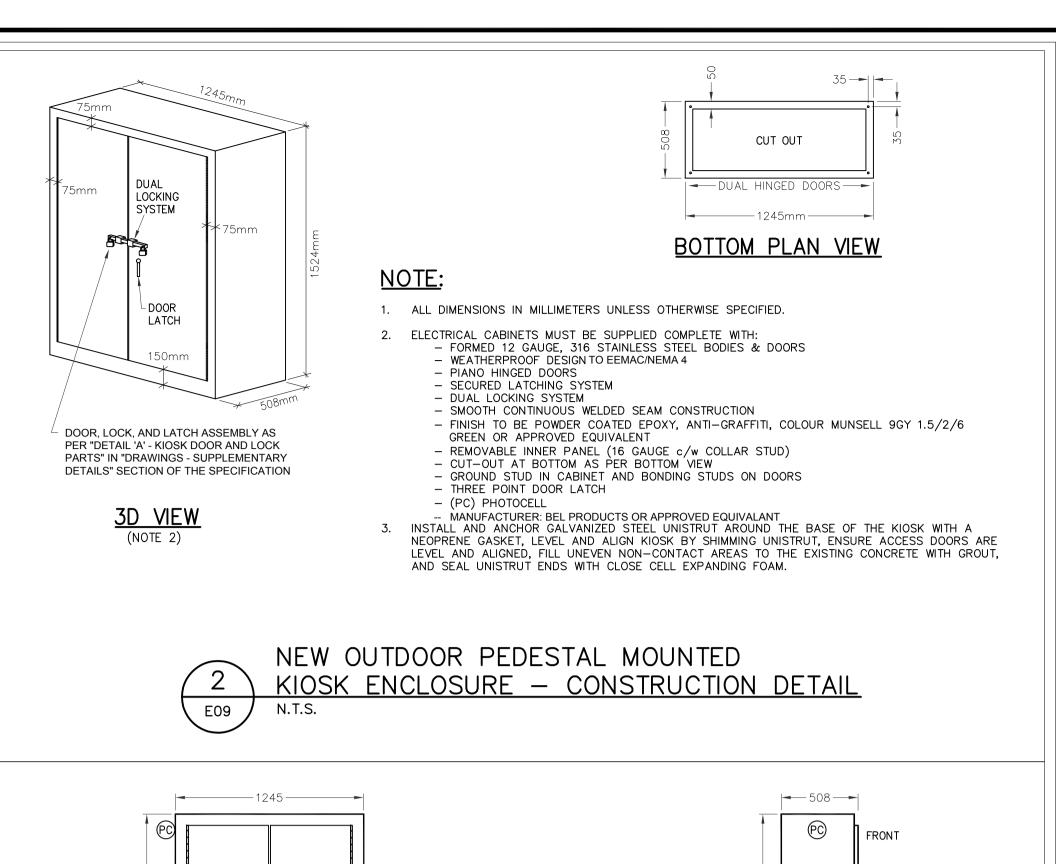
(QED near Central)

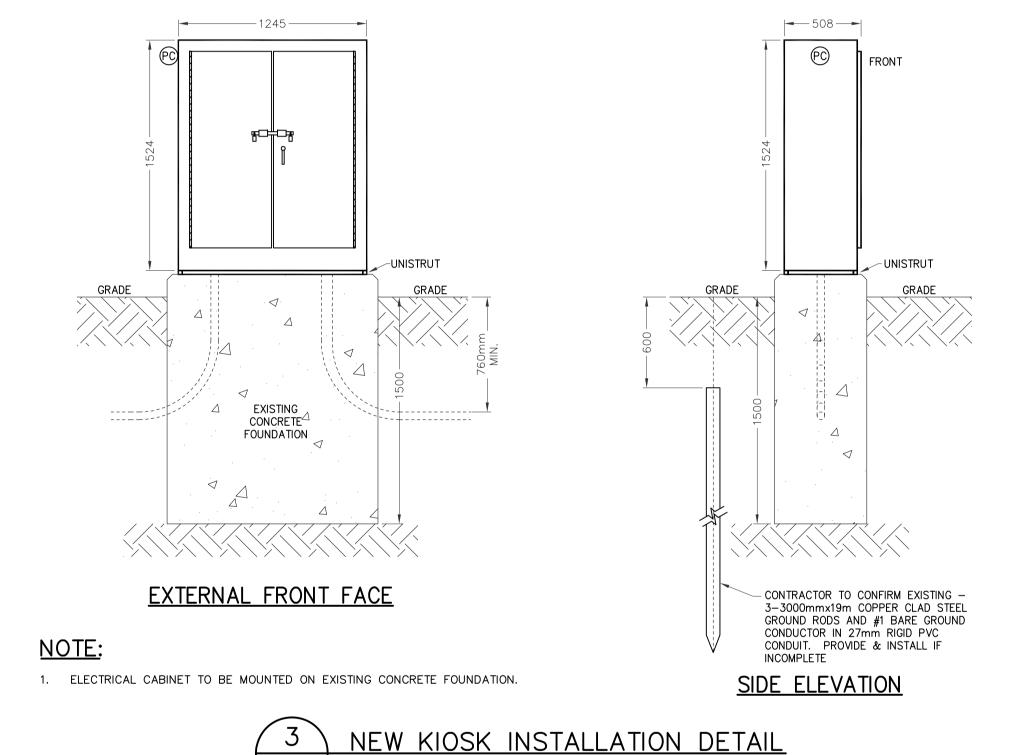
approved by James Huynh approuvé par conçu par drawn by dessiné par date échelle As Shown NCC project no. sheet no. no. du projet de la CCN no. de la feuille

AND/OR EXTEND THE EXISTING WIRING CIRCUITS.

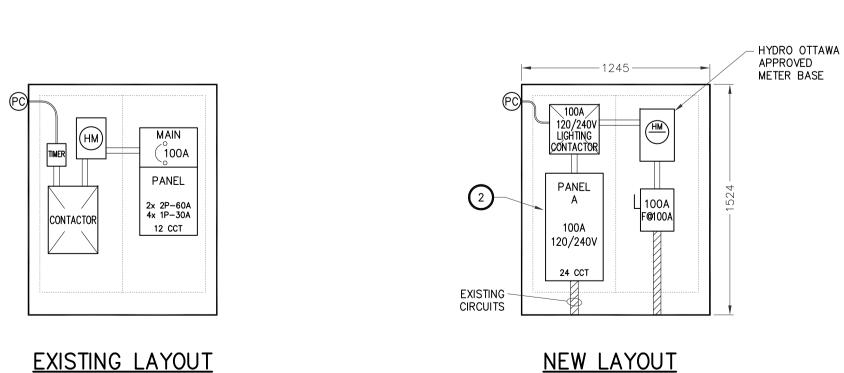
DC4000-19







E09



4 INTERNAL LAYOUTS FOR KIOSK #237



Capital Planning and Real Asset Management Branch Direction de l'aménagement de la capitale et gestion de l'immobilier

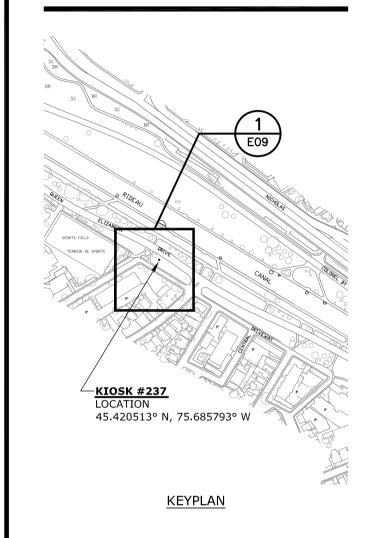
> Design and Construction Division Division design et construction

director - Daniel Miron - directeur

consultant expert-conseil



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ELECTRICAL KIOSK REPLACEMENT - CORE AREA -

drawing dessin

DC4000-19

project

projet

KIOSK #237

(QED near Cooper)

(QLD fleat Cooper

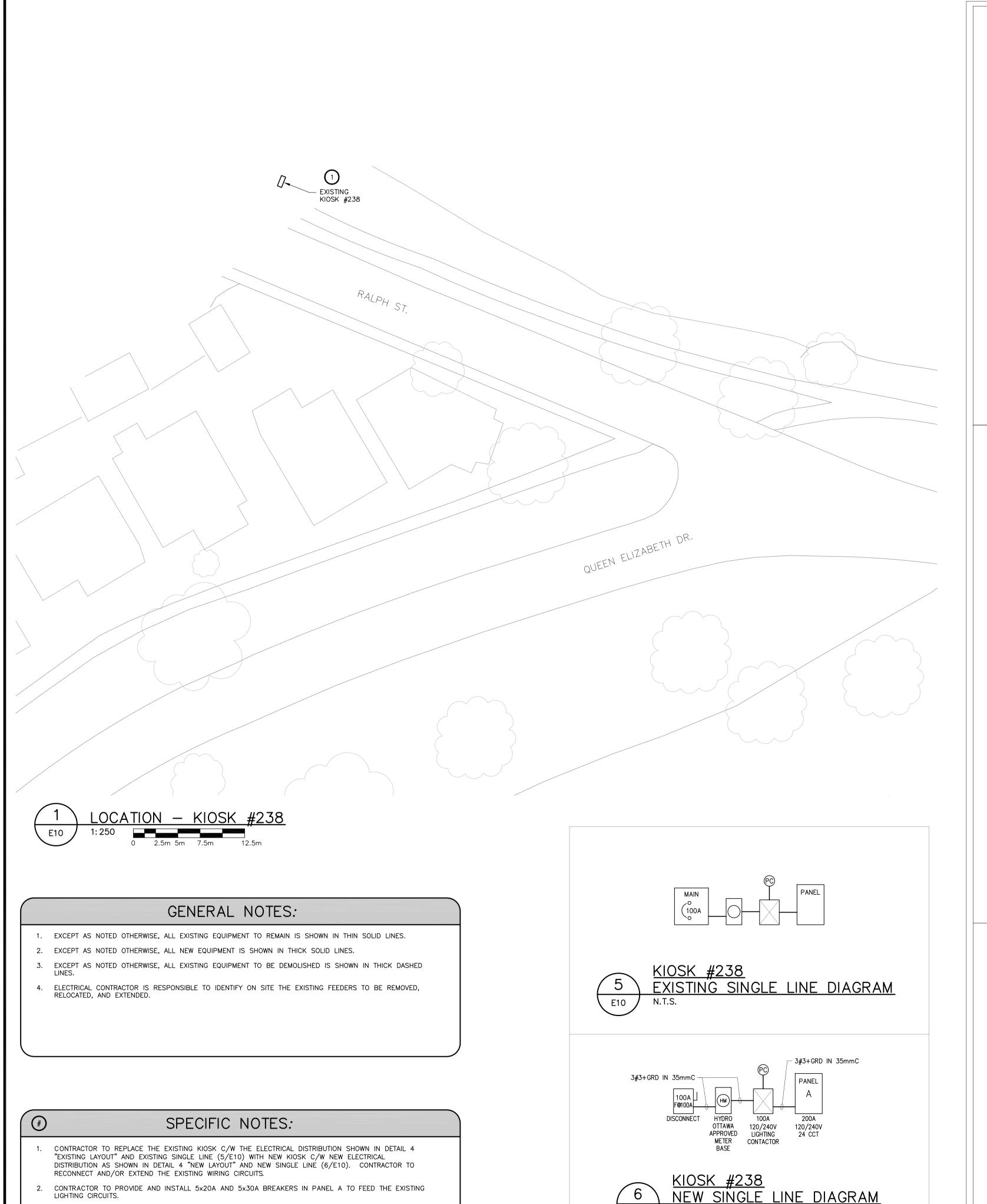
approved by approuvé par James Huynh

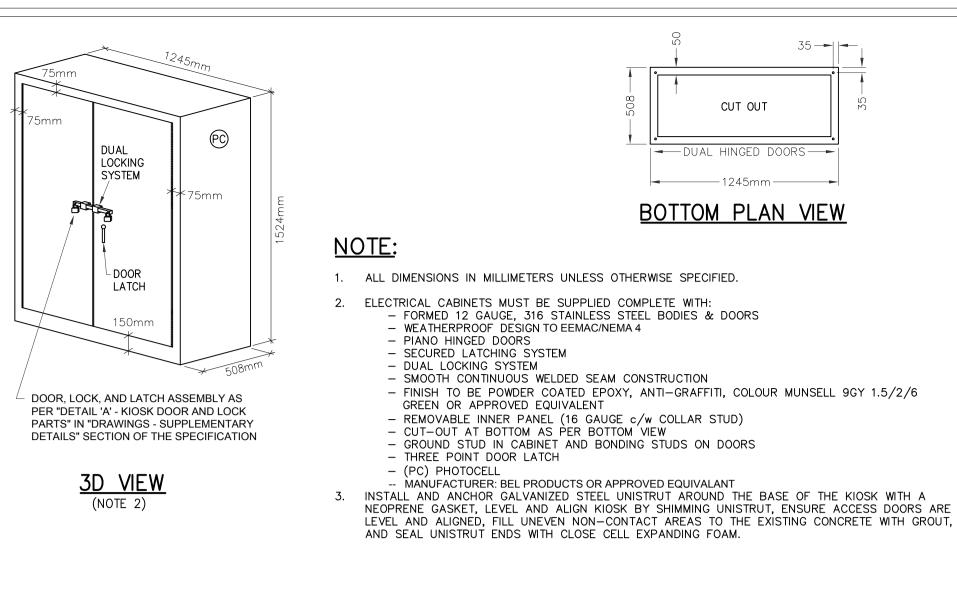
designed by conçu par D.G.

drawn by dessiné par G.G.

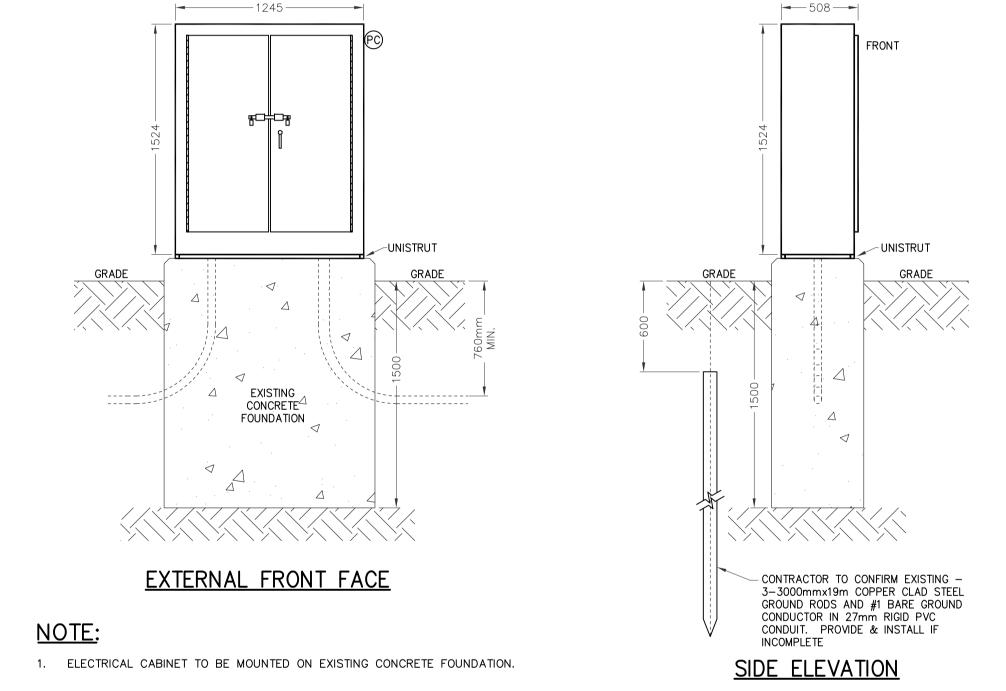
date 2013-09-13 scale échelle As Shown

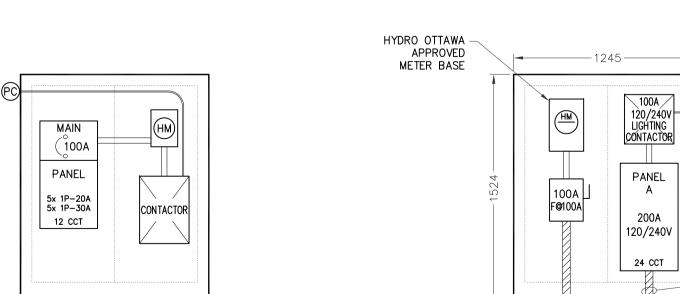
NCC project no. sheet no. no. de la feuille





NEW OUTDOOR PEDESTAL MOUNTED KIOSK ENCLOSURE - CONSTRUCTION DETAIL E10





NEW KIOSK INSTALLATION DETAIL

EXISTING LAYOUT

NEW LAYOUT

200A

- EXISTING

INTERNAL LAYOUTS FOR KIOSK #238



Capital Planning and Real Asset Management Branch Direction de l'aménagement de la capitale et gestion de l'immobilier

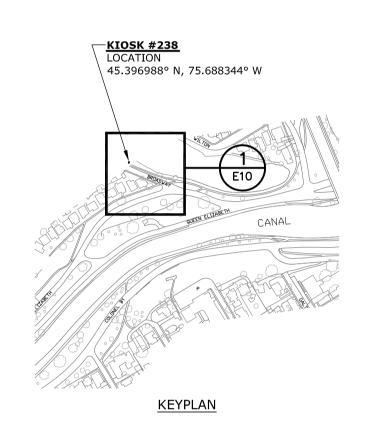
> Design and Construction Division Division design et construction

director - Daniel Miron - directeur

consultant expert-conseil



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> **ELECTRICAL KIOSK** REPLACEMENT - CORE AREA -

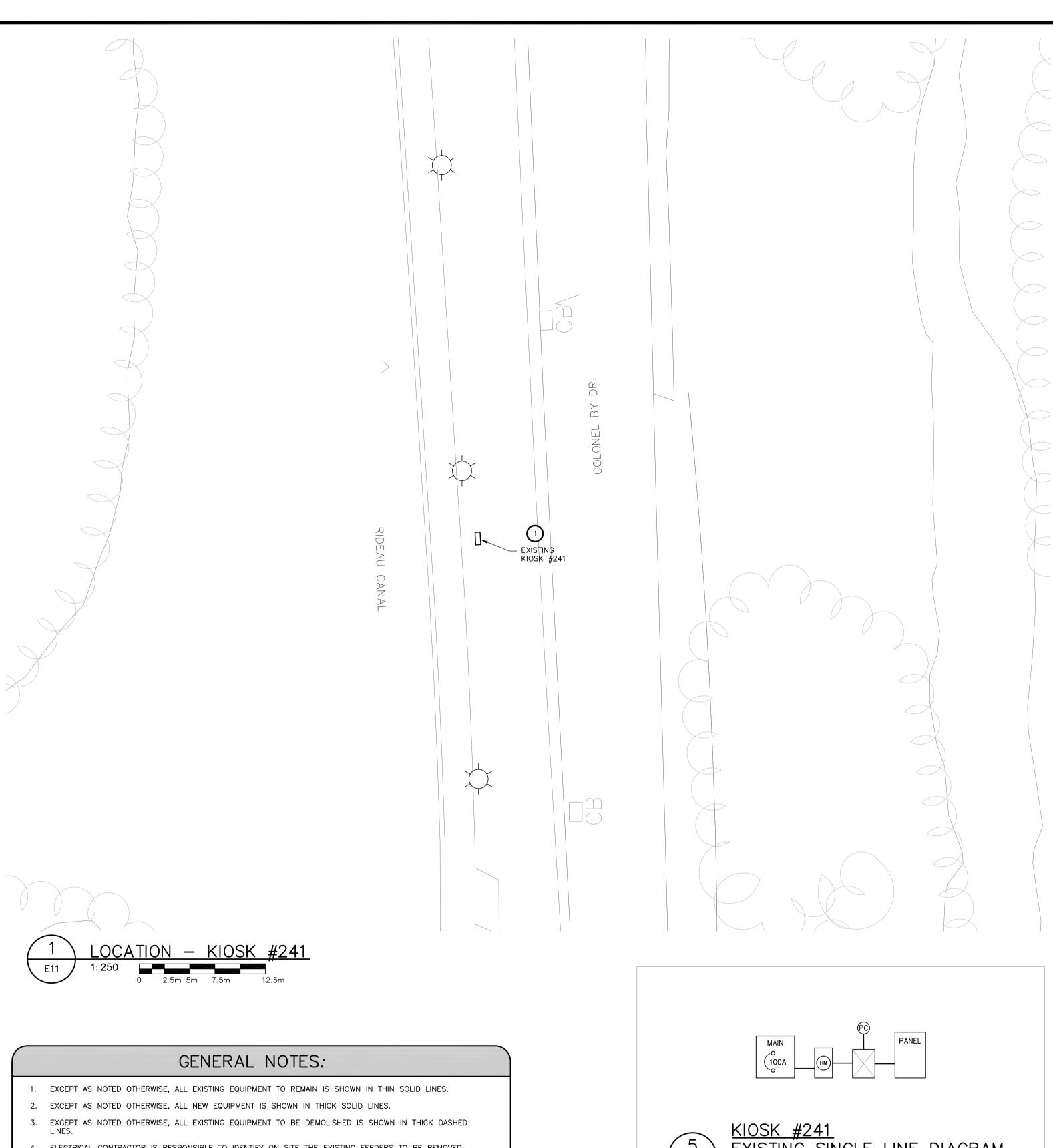
dessin

projet

KIOSK #238

(Ralphs St. near QED)

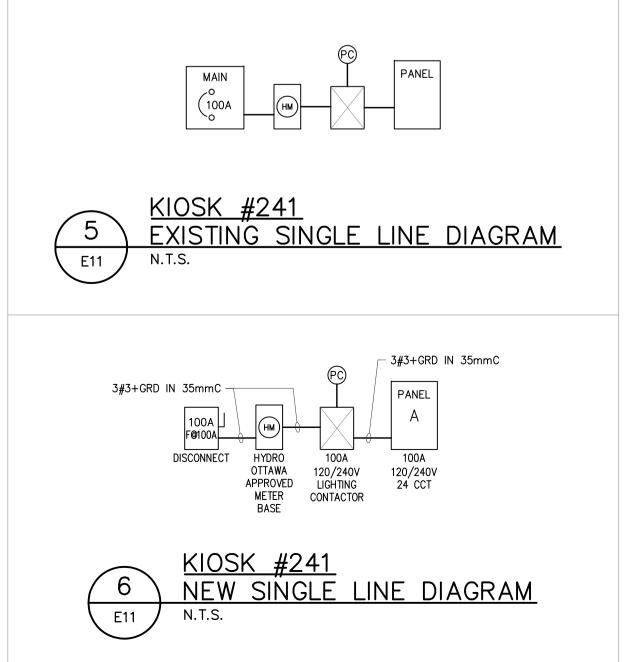
approved by James Huynh approuvé par conçu par drawn by dessiné par date échelle As Shown NCC project no. sheet no. no. du projet de la CCN no. de la feuille DC4000-19

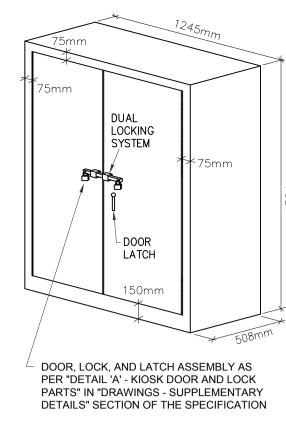


4. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO IDENTIFY ON SITE THE EXISTING FEEDERS TO BE REMOVED,

SPECIFIC NOTES:

- CONTRACTOR TO REPLACE THE EXISTING KIOSK C/W THE ELECTRICAL DISTRIBUTION SHOWN IN DETAIL 4 "EXISTING LAYOUT" AND EXISTING SINGLE LINE (5/E11) WITH NEW KIOSK C/W NEW ELECTRICAL DISTRIBUTION AS SHOWN IN DETAIL 4 "NEW LAYOUT" AND NEW SINGLE LINE (6/E11). CONTRACTOR TO RECONNECT AND/OR EXTEND THE EXISTING WIRING CIRCUITS.
- 2. CONTRACTOR TO PROVIDE AND INSTALL 1x30A AND 6x20A BREAKERS IN PANEL A TO FEED THE EXISTING LIGHTING CIRCUITS.





3D VIEW

NOTE:

1. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.

2. ELECTRICAL CABINETS MUST BE SUPPLIED COMPLETE WITH:
- FORMED 12 GAUGE, 316 STAINLESS STEEL BODIES & DOORS

- WEATHERPROOF DESIGN TO EEMAC/NEMA 4 PIANO HINGED DOORS
- SECURED LATCHING SYSTEM
- DUAL LOCKING SYSTEM
 SMOOTH CONTINUOUS WELDED SEAM CONSTRUCTION - FINISH TO BE POWDER COATED EPOXY, ANTI-GRAFFITI, COLOUR MUNSELL 9GY 1.5/2/6

CUT OUT

--- DUAL HINGED DOORS---

→ 1245mm **→**

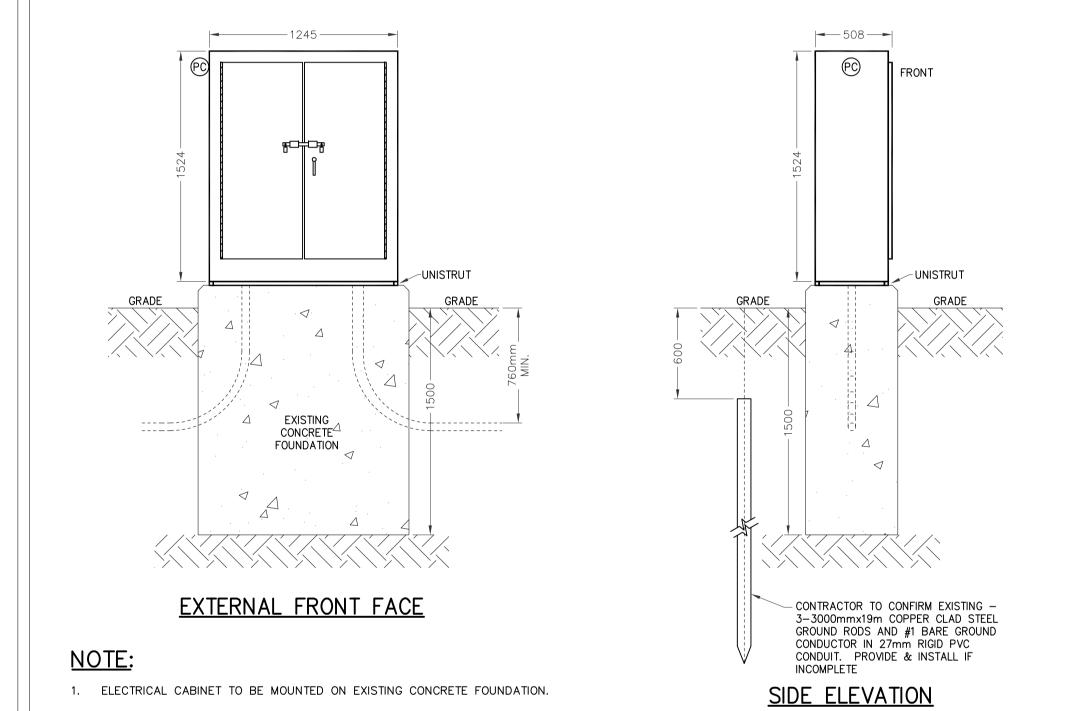
BOTTOM PLAN VIEW

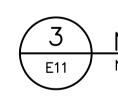
- GREEN OR APPROVED EQUIVALENT

 REMOVABLE INNER PANEL (16 GAUGE c/w COLLAR STUD)

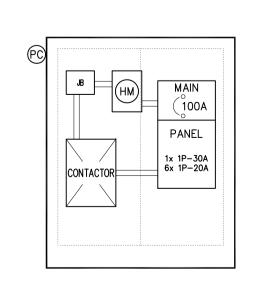
 CUT-OUT AT BOTTOM AS PER BOTTOM VIEW
- GROUND STUD IN CABINET AND BONDING STUDS ON DOORS
- THREE POINT DOOR LATCH
- (PC) PHOTOCELL
 MANUFACTURER: BEL PRODUCTS OR APPROVED EQUIVALANT
 INSTALL AND ANCHOR GALVANIZED STEEL UNISTRUT AROUND THE BASE OF THE KIOSK WITH A NEOPRENE GASKET, LEVEL AND ALIGN KIOSK BY SHIMMING UNISTRUT, ENSURE ACCESS DOORS ARE LEVEL AND ALIGNED, FILL UNEVEN NON—CONTACT AREAS TO THE EXISTING CONCRETE WITH GROUT, AND SEAL UNISTRUT ENDS WITH CLOSE CELL EXPANDING FOAM.



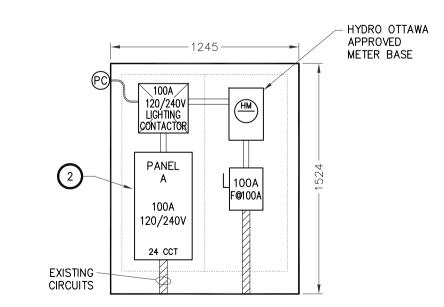




NEW KIOSK INSTALLATION DETAIL



EXISTING LAYOUT



NEW LAYOUT

INTERNAL LAYOUTS FOR KIOSK #241



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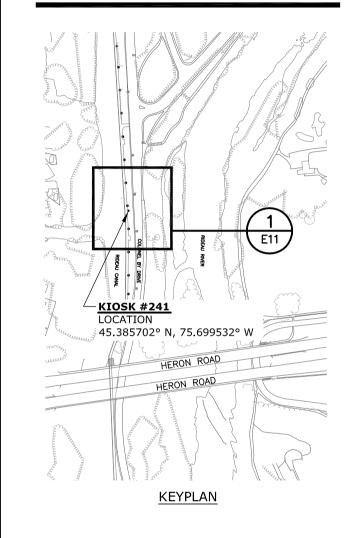
> Design and Construction Division Division design et construction

director - Daniel Miron - directeur

consultant expert-conseil



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> **ELECTRICAL KIOSK** REPLACEMENT - CORE AREA -

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DC4000-19

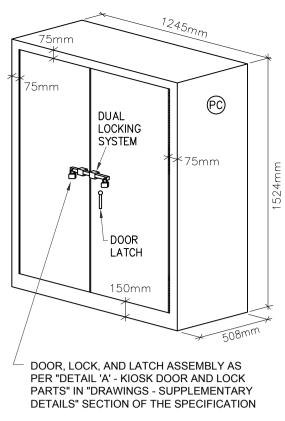
projet

KIOSK #241

(Colonel By near Harwell Locks)

approved by James Huynh approuvé par conçu par drawn by dessiné par date échelle As Shown NCC project no. sheet no. no. du projet de la CCN no. de la feuille





NOTE:

- 1. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
- 2. ELECTRICAL CABINETS MUST BE SUPPLIED COMPLETE WITH:

 FORMED 12 GAUGE, 316 STAINLESS STEEL BODIES & DOORS

 WEATHERPROOF DOSIGN TO EEMAC/NEMA 4
 - PIANO HINGED DOORS
 - SECURED LATCHING SYSTEM
 - DUAL LOCKING SYSTEM
 - SMOOTH CONTINUOUS WELDED SEAM CONSTRUCTION - FINISH TO BE POWDER COATED EPOXY, ANTI-GRAFFITI, COLOUR MUNSELL 9GY 1.5/2/6

CUT OUT

→ DUAL HINGED DOORS →

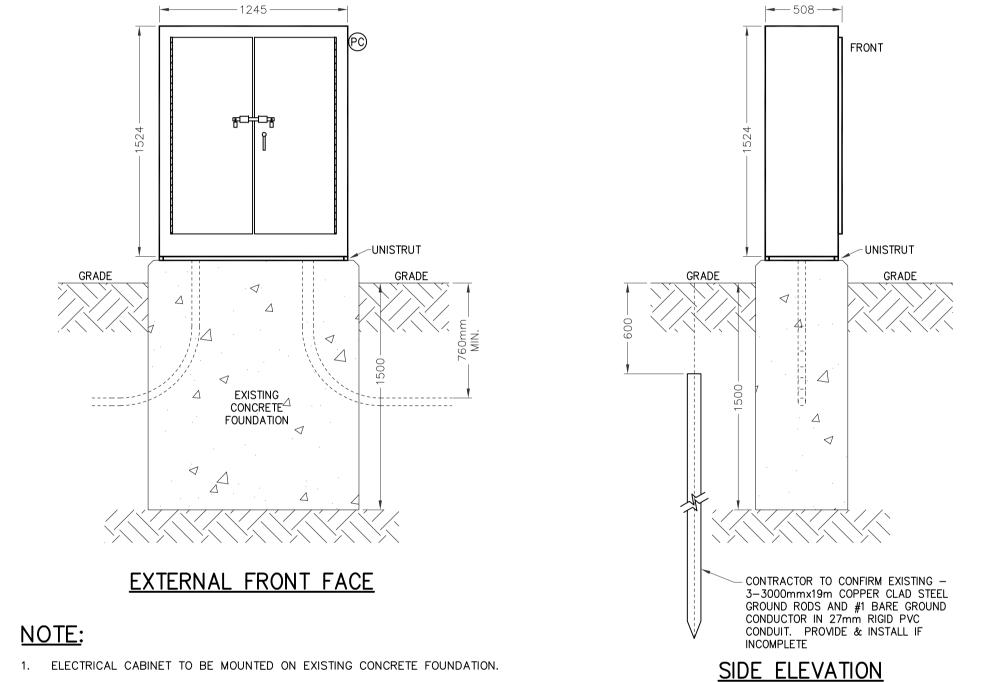
→ 1245mm **→**

BOTTOM PLAN VIEW

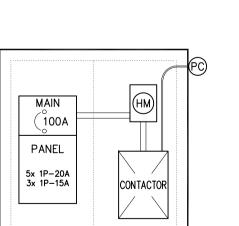
- GREEN OR APPROVED EQUIVALENT
- REMOVABLE INNER PANEL (16 GAUGE c/w COLLAR STUD)
 CUT-OUT AT BOTTOM AS PER BOTTOM VIEW
 GROUND STUD IN CABINET AND BONDING STUDS ON DOORS
- THREE POINT DOOR LATCH
- (PC) PHOTOCELL
 -- MANUFACTURER: BEL PRODUCTS OR APPROVED EQUIVALANT
 INSTALL AND ANCHOR GALVANIZED STEEL UNISTRUT AROUND THE BASE OF THE KIOSK WITH A NEOPRENE GASKET, LEVEL AND ALIGN KIOSK BY SHIMMING UNISTRUT, ENSURE ACCESS DOORS ARE LEVEL AND ALIGNED, FILL UNEVEN NON-CONTACT AREAS TO THE EXISTING CONCRETE WITH GROUT,

AND SEAL UNISTRUT ENDS WITH CLOSE CELL EXPANDING FOAM.

NEW OUTDOOR PEDESTAL MOUNTED KIOSK ENCLOSURE - CONSTRUCTION DETAIL



NEW KIOSK INSTALLATION DETAIL



HYDRO OTTAWA — APPROVED METER BASE LIGHTING CONTACTOR PANEL 100A F@100A 100A 120/240V 24 CCT - EXISTING

EXISTING LAYOUT

NEW LAYOUT

INTERNAL LAYOUTS FOR KIOSK #245



Capital Planning and Real Asset Management Branch Direction de l'aménagement de la capitale et gestion de l'immobilier

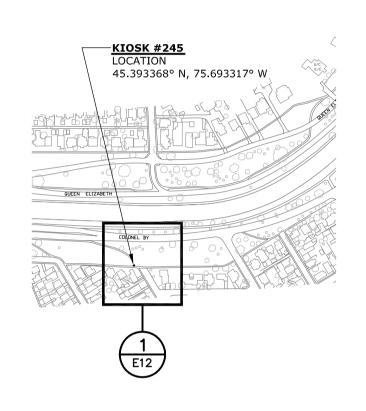
> Design and Construction Division Division design et construction

director - Daniel Miron - directeur

consultant expert-conseil



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ELECTRICAL KIOSK REPLACEMENT - CORE AREA -

dessin

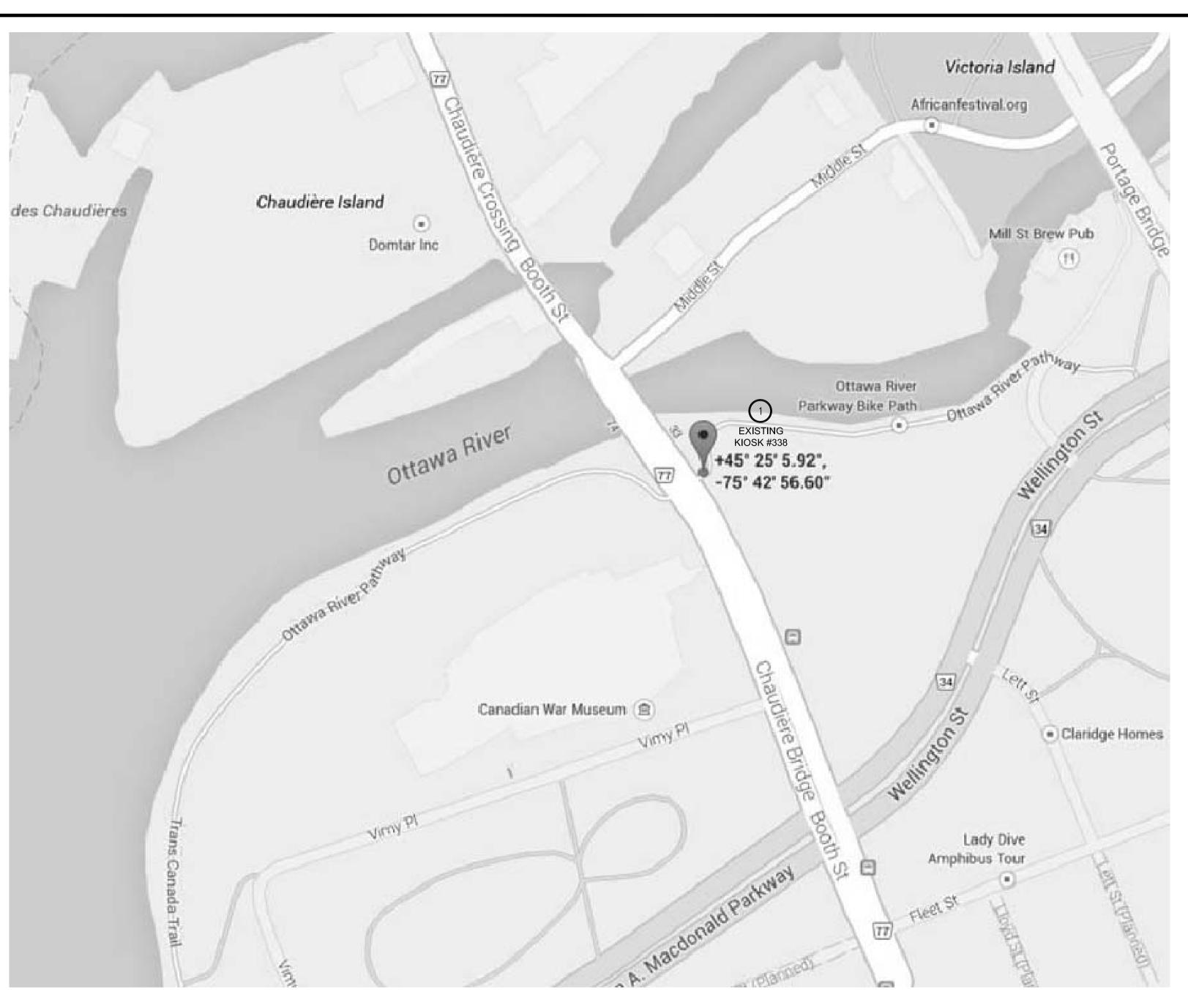
DC4000-19

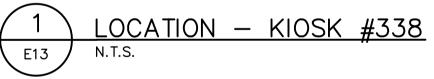
projet

KIOSK #245

(Carlyle St. near Colonel By)

approved by James Huynh approuvé par conçu par drawn by dessiné par date échelle As Shown NCC project no. sheet no. no. du projet de la CCN no. de la feuille

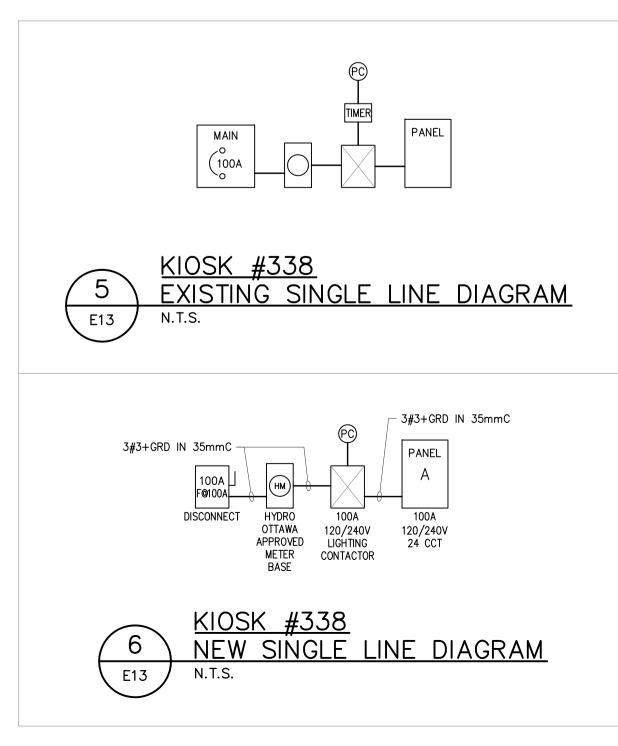


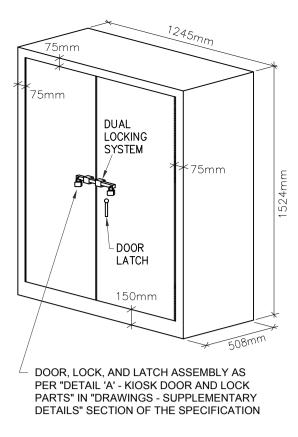


- 1. EXCEPT AS NOTED OTHERWISE, ALL EXISTING EQUIPMENT TO REMAIN IS SHOWN IN THIN SOLID LINES.
- 2. EXCEPT AS NOTED OTHERWISE, ALL NEW EQUIPMENT IS SHOWN IN THICK SOLID LINES.
- 3. EXCEPT AS NOTED OTHERWISE, ALL EXISTING EQUIPMENT TO BE DEMOLISHED IS SHOWN IN THICK DASHED
- 4. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO IDENTIFY ON SITE THE EXISTING FEEDERS TO BE REMOVED, RELOCATED, AND EXTENDED.

SPECIFIC NOTES:

- CONTRACTOR TO REPLACE THE EXISTING KIOSK C/W THE ELECTRICAL DISTRIBUTION SHOWN IN DETAIL 4 "EXISTING LAYOUT" AND EXISTING SINGLE LINE (5/E13) WITH NEW KIOSK C/W NEW ELECTRICAL DISTRIBUTION AS SHOWN IN DETAIL 4 "NEW LAYOUT" AND NEW SINGLE LINE (6/E13). CONTRACTOR TO RECONNECT AND/OR EXTEND THE EXISTING WIRING CIRCUITS.
- 2. CONTRACTOR TO PROVIDE AND INSTALL 2x15A AND 2x30A/2P BREAKERS IN PANEL A TO FEED THE EXISTING LIGHTING CIRCUITS.





3D VIEW

NOTE:

- 1. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
- ELECTRICAL CABINETS MUST BE SUPPLIED COMPLETE WITH:
 FORMED 3/16" STAINLESS STEEL BODIES & DOORS
 WEATHERPROOF DESIGN TO EEMAC/NEMA 4
- WEATHER FROOF DESIGN TO EEMAC/NEWA 4
 PIANO HINGED DOORS
 SECURED LATCHING SYSTEM
 DUAL LOCKING SYSTEM
 SMOOTH CONTINUOUS WELDED SEAM CONSTRUCTION
 FINISH TO BE 1 COAT PRIME PLUS 2 EPOXY POWDER COATS STANDARD HYDRO GREEN GLYPTAL
 - REMOVABLE INNER PANEL (16 GAUGE c/w COLLAR STUD)
 CUT-OUT AT BOTTOM AS PER BOTTOM VIEW
 GROUND STUD IN CABINET AND BONDING STUDS ON DOORS
 THREE POINT DOOR LATCH

 - (PC) PHOTOCELL
 -- MANUFACTURER: BEL PRODUCTS OR APPROVED EQUIVALANT

 3. INSTALL A GALVANIZED STEEL UNISTRUT AROUND THE BASE OF THE KIOSK WITH A NEOPRENE GASKET.

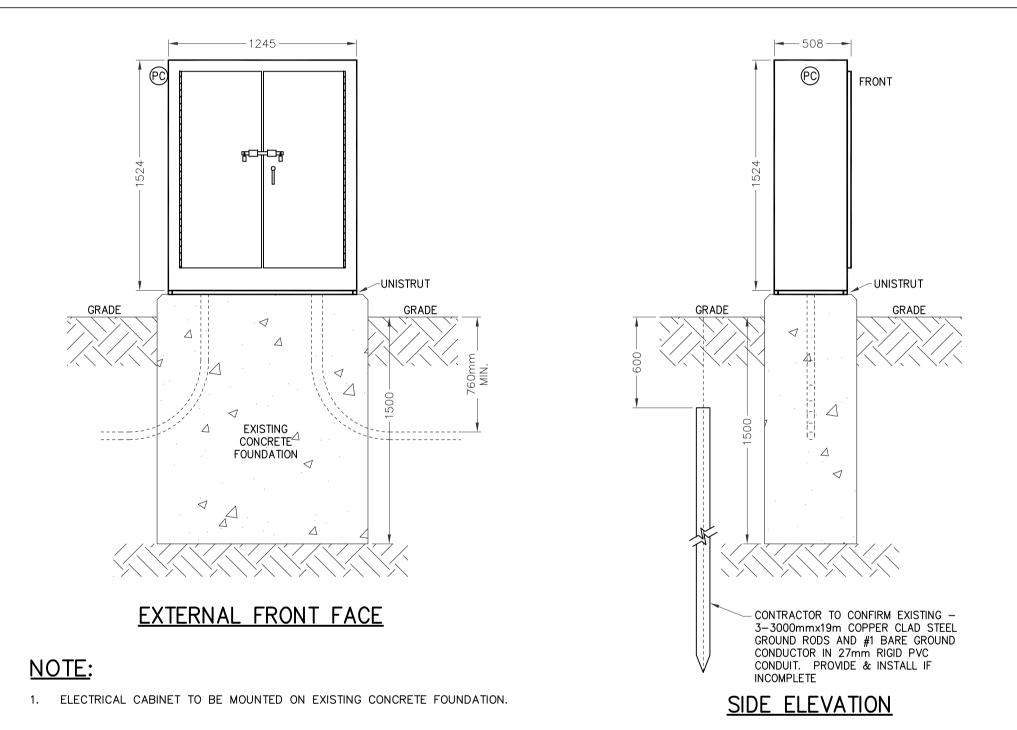
CUT OUT

→ DUAL HINGED DOORS →

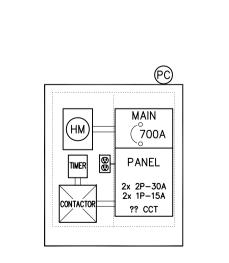
→ 1245mm **→**

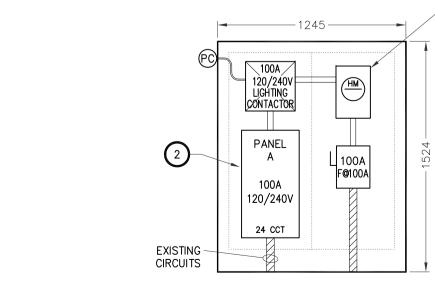
BOTTOM PLAN VIEW











EXISTING LAYOUT

NEW LAYOUT

INTERNAL LAYOUTS FOR KIOSK #338

issued or revised

émis o		
2	ISSUED FOR TENDER	2013-12-0
1	ISSUED FOR 95% REVIEW	2013-10-2
no.	description	date
project projet	:	

Canadä

Capital Planning and Real Asset Management Branch

Direction de l'aménagement de la capitale et gestion de l'immobilier

Design and Construction Division Division design et construction

director - Daniel Miron - directeur

300-2611 QUEENSVIEW DRIVE OTTAWA (ONTARIO)

CANADA K2B 8K2
TELEPHONE: 613-829-2800 FAX: 613-829-8299

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ELECTRICAL KIOSK REPLACEMENT - CORE AREA -

drawing dessin

NCC project no.

DC4000-19

no. du projet de la CCN

- HYDRO OTTAWA

APPROVED

METER BASE

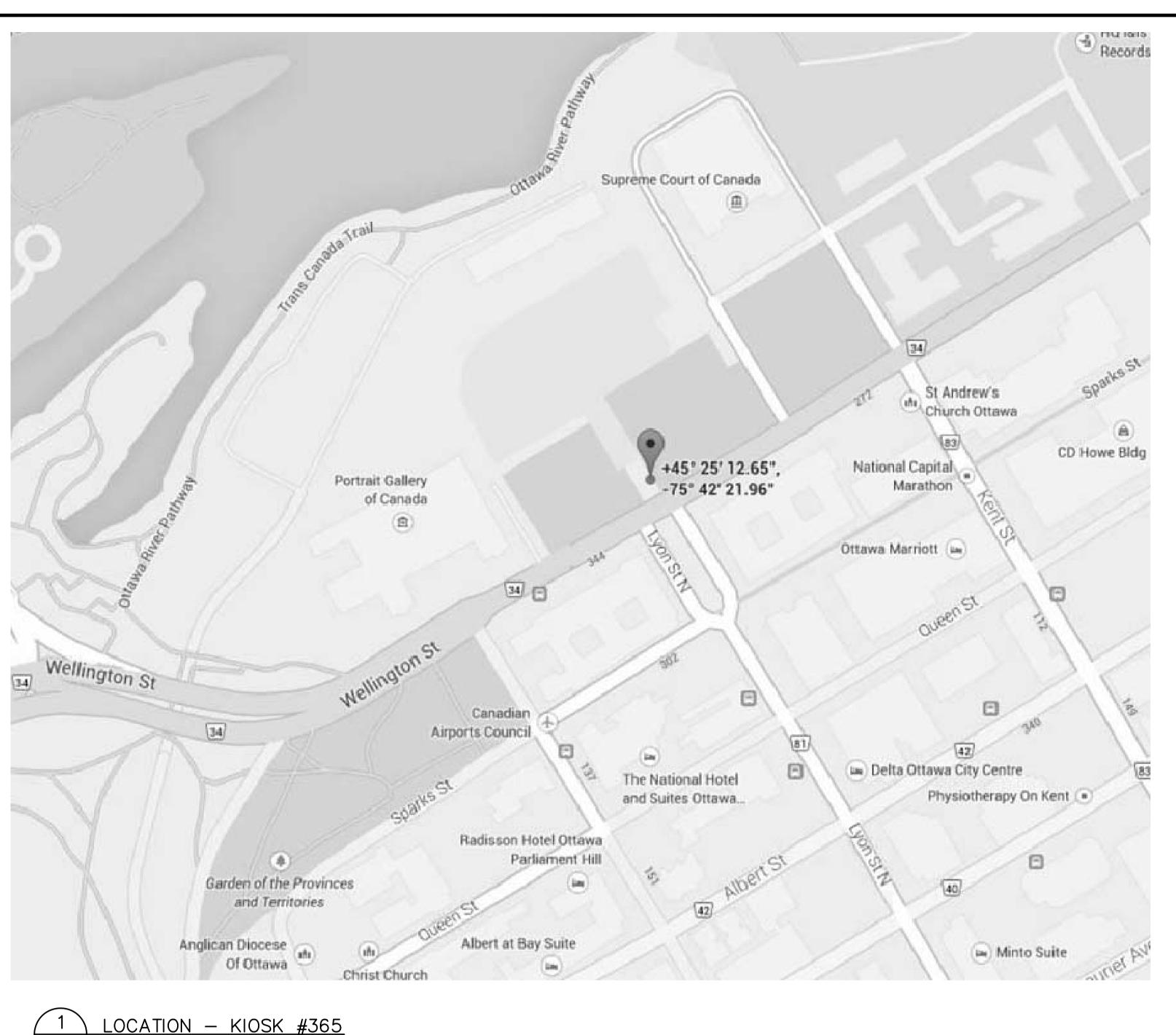
KIOSK #338

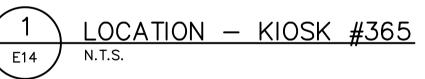
(Booth St.)

approved by James Huynh approuvé par conçu par drawn by G.G. dessiné par scale date échelle As Shown

National Capital Commission - Commission de la capitale nationale sheet size: ISO_A1 sheet no.

no. de la feuille



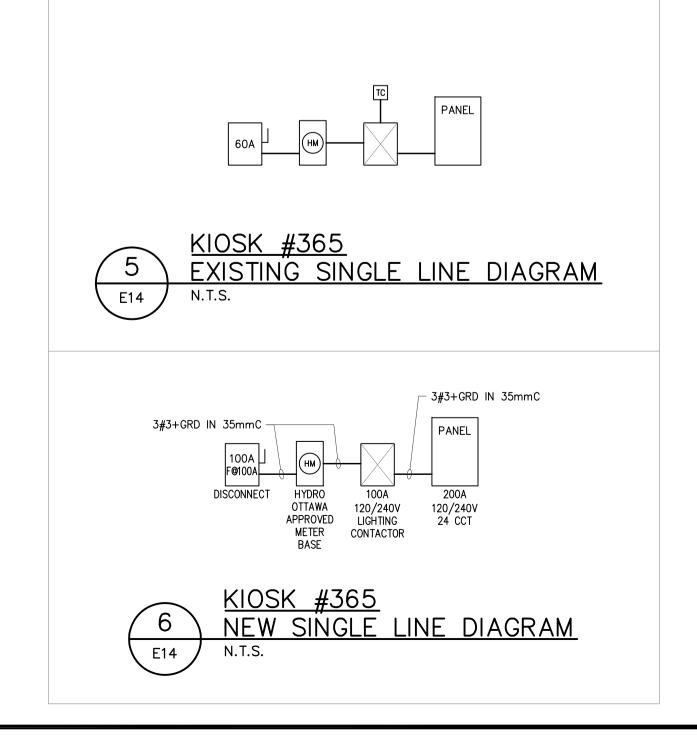


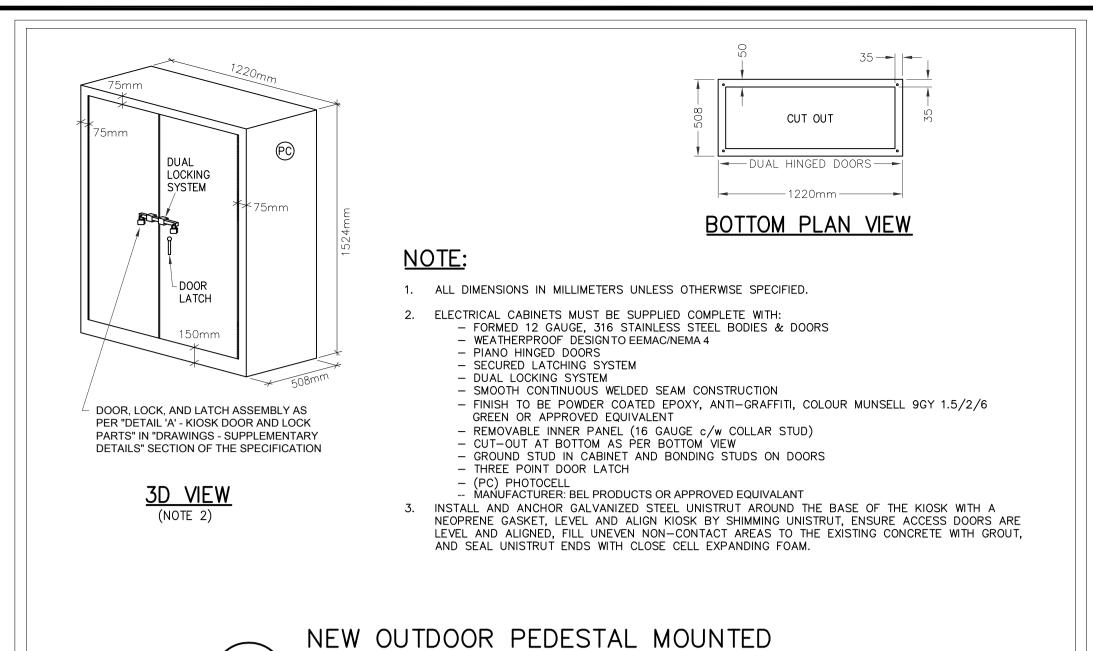
- 1. EXCEPT AS NOTED OTHERWISE, ALL EXISTING EQUIPMENT TO REMAIN IS SHOWN IN THIN SOLID LINES.
- 2. EXCEPT AS NOTED OTHERWISE, ALL NEW EQUIPMENT IS SHOWN IN THICK SOLID LINES.
- EXCEPT AS NOTED OTHERWISE, ALL EXISTING EQUIPMENT TO BE DEMOLISHED IS SHOWN IN THICK DASHED
- ELECTRICAL CONTRACTOR IS RESPONSIBLE TO IDENTIFY ON SITE THE EXISTING FEEDERS TO BE REMOVED, RELOCATED, AND EXTENDED.

SPECIFIC NOTES:

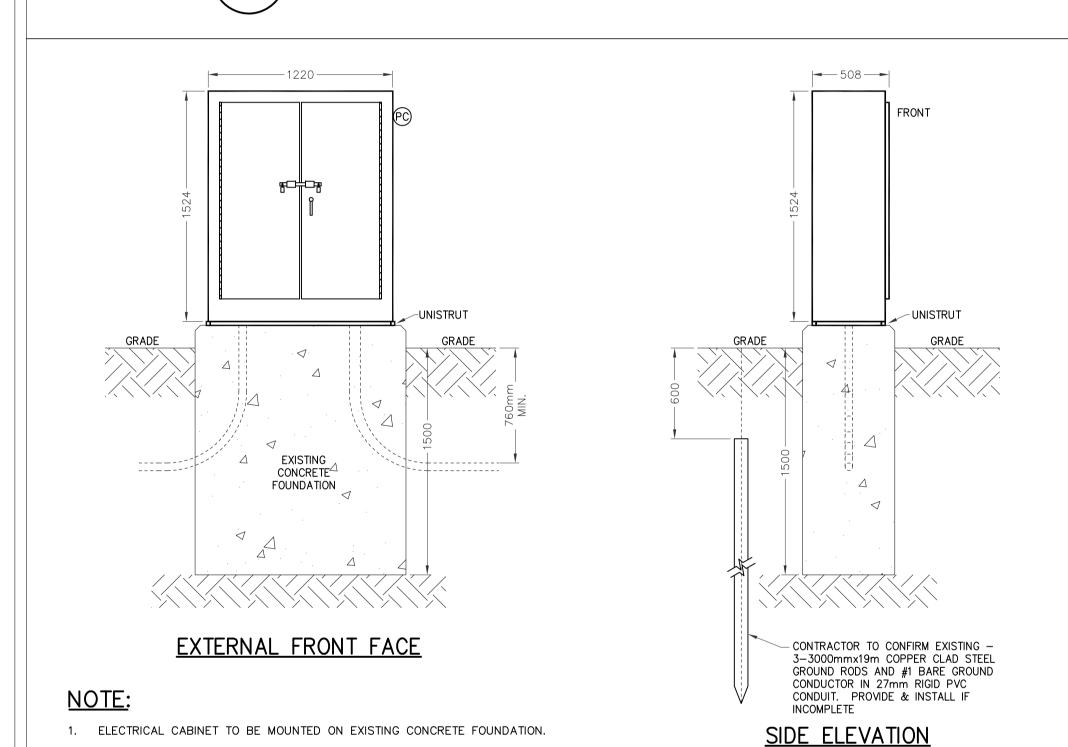
RECONNECT AND/OR EXTEND THE EXISTING WIRING CIRCUITS.

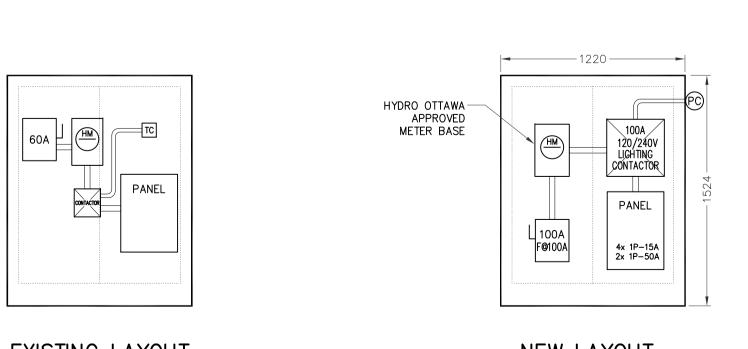
- CONTRACTOR TO REPLACE THE EXISTING KIOSK C/W THE ELECTRICAL DISTRIBUTION SHOWN IN DETAIL 4 "EXISTING LAYOUT" AND EXISTING SINGLE LINE (5/E14) WITH NEW KIOSK C/W NEW ELECTRICAL DISTRIBUTION AS SHOWN IN DETAIL 4 "NEW LAYOUT" AND NEW SINGLE LINE (6/E14). CONTRACTOR TO
- CONTRACTOR TO PROVIDE AND INSTALL 4x15A AND 2x50A/1P BREAKERS IN PANEL A TO FEED THE





KIOSK ENCLOSURE - CONSTRUCTION DETAIL





NEW KIOSK INSTALLATION DETAIL

EXISTING LAYOUT

NEW LAYOUT

INTERNAL LAYOUTS FOR KIOSK #365



Capital Planning and Real Asset Management Branch Direction de l'aménagement de la capitale et gestion de l'immobilier

> Design and Construction Division Division design et construction

director - Daniel Miron - directeur

consultant expert-conseil

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mis ou revise			
2	ISSUED FOR TENDER	2013-12-0	
1	ISSUED FOR 95% REVIEW	2013-10-2	
no.	description	date	
roject	:		

ELECTRICAL KIOSK REPLACEMENT - CORE AREA -

dessin

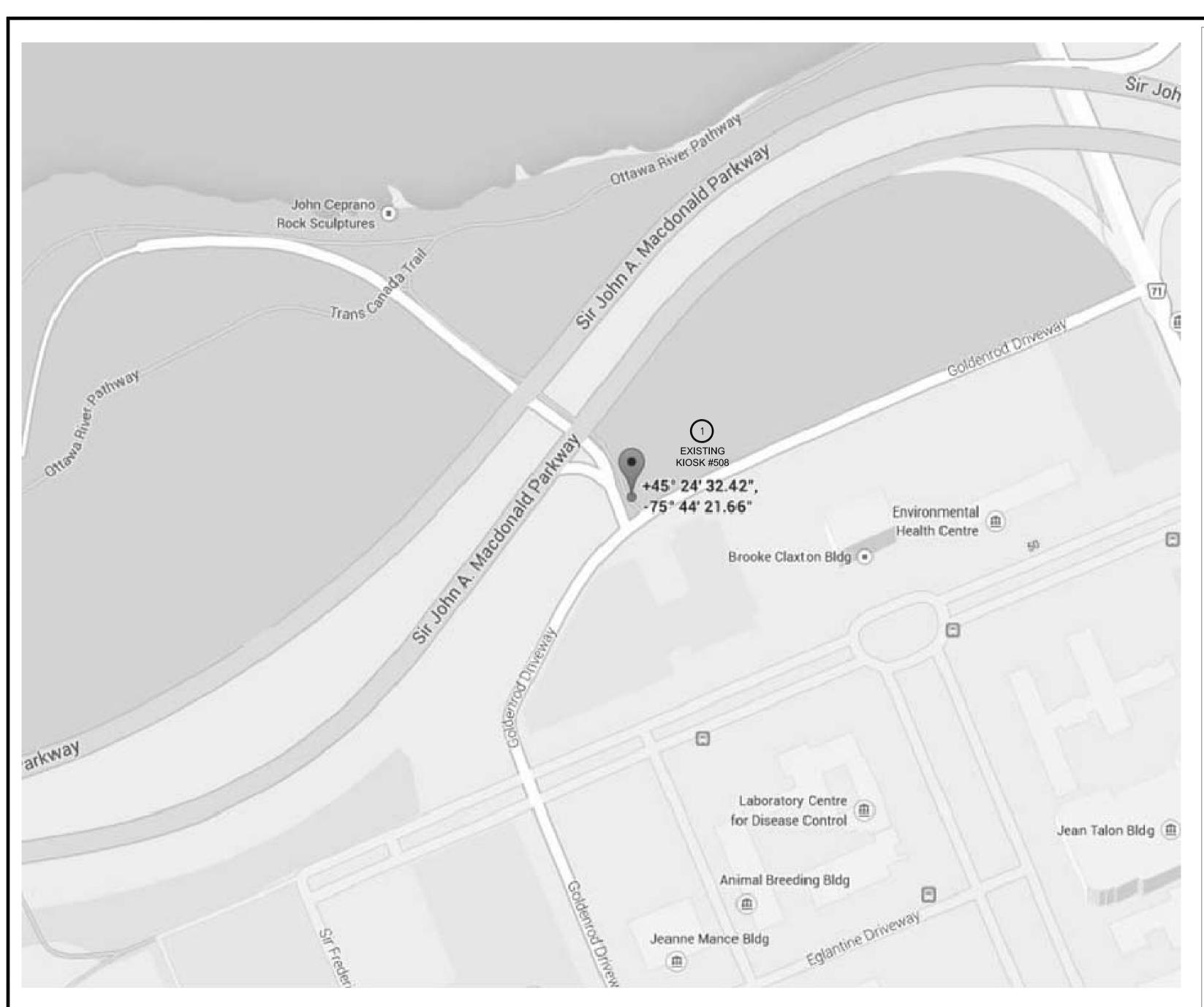
projet

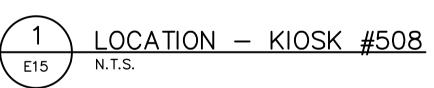
KIOSK #365

(Wellington near Lyon)

NCC project no. no. du projet de la CCN		sheet no	· -
date 2013-09- ²	13	scale échelle	As Shown
drawn by dessiné par	G.G.		
designed by conçu par	D.G.		
approved by approuvé par	James Hu	ynh	

DC4000-19

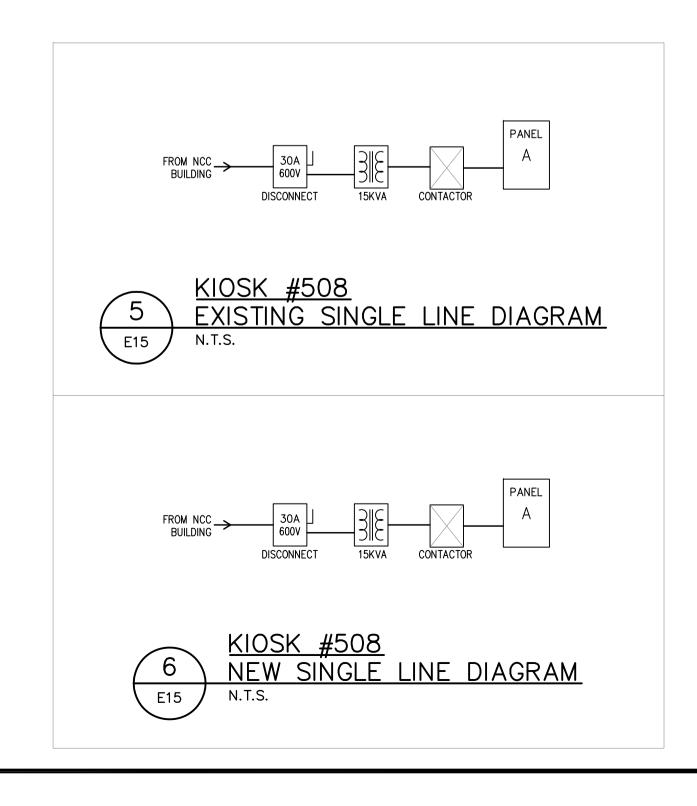


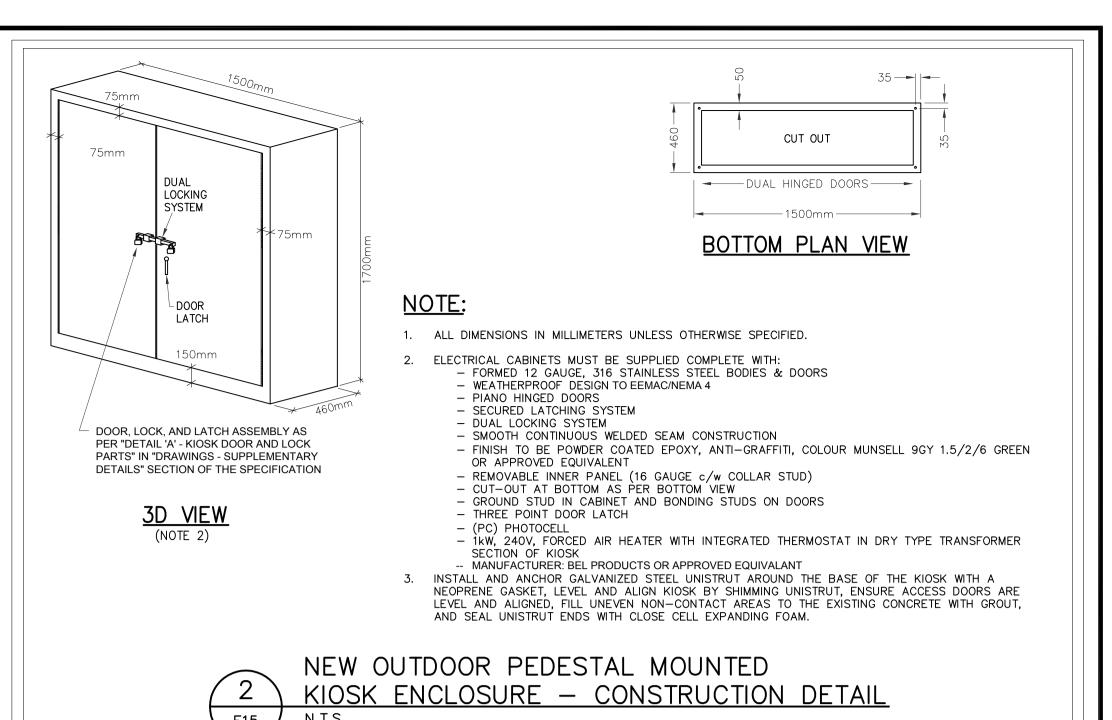


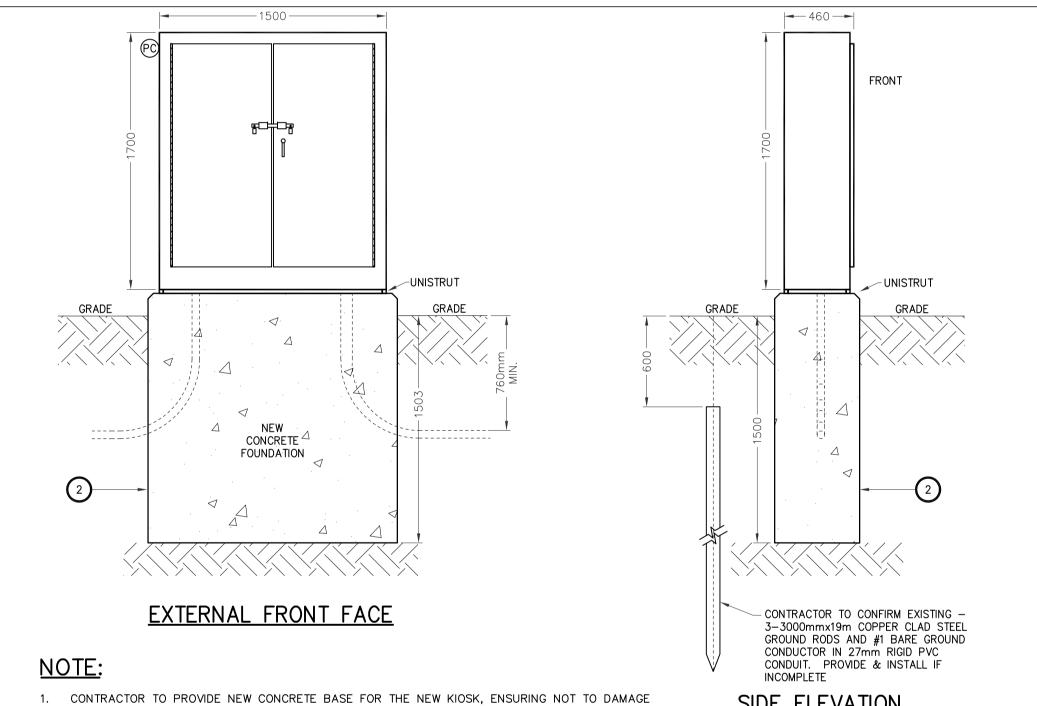
- 1. EXCEPT AS NOTED OTHERWISE, ALL EXISTING EQUIPMENT TO REMAIN IS SHOWN IN THIN SOLID LINES.
- 2. EXCEPT AS NOTED OTHERWISE, ALL NEW EQUIPMENT IS SHOWN IN THICK SOLID LINES.
- 3. EXCEPT AS NOTED OTHERWISE, ALL EXISTING EQUIPMENT TO BE DEMOLISHED IS SHOWN IN THICK DASHED
- 4. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO IDENTIFY ON SITE THE EXISTING FEEDERS TO BE REMOVED, RELOCATED, AND EXTENDED.

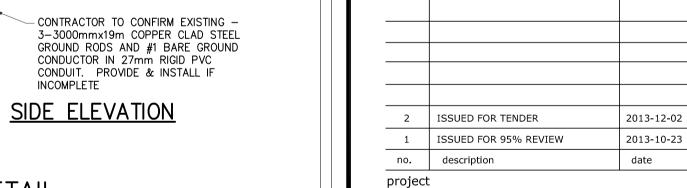
SPECIFIC NOTES:

- CONTRACTOR TO REPLACE THE EXISTING KIOSK C/W THE ELECTRICAL DISTRIBUTION SHOWN IN DETAIL 4 "EXISTING LAYOUT" AND EXISTING SINGLE LINE (5/E15) WITH NEW KIOSK AND REUSING THE EXISTING ELECTRICAL EQUIPMENT AS SHOWN IN DETAIL 4 "NEW LAYOUT" AND NEW SINGLE LINE (6/E15). CONTRACTOR TO RECONNECT AND/OR EXTEND THE EXISTING WIRING CIRCUITS.
- 2. CONTRACTOR TO PROVIDE NEW CONCRETE BASE FOR THE NEW KIOSK, ENSURING NOT TO DAMAGE THE EXISTING CONDUITS DURING EXCAVATION & POURING THE NEW BASE.









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> ELECTRICAL KIOSK REPLACEMENT - CORE AREA -

Canadä

Capital Planning and Real Asset Management Branch

Direction de l'aménagement de la capitale et gestion de l'immobilier

Design and Construction Division

Division design et construction

director - Daniel Miron - directeur

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TELEPHONE: 613-829-2800 FAX: 613-829-8299 WWW.GENIVAR.COM

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projet

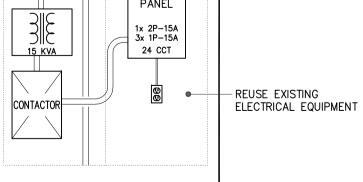
KIOSK #508

(Tunney's Pasture)

DC4000-19		E 1	5
NCC project no. no. du projet de la CCN		sheet no. no. de la feuille	
date 2013-09-	-13	scale échelle	As Shown
drawn by dessiné par	G.G.		
designed by conçu par	D.G.		
approved by approuvé par	James Hu	ynh	



600V PANEL 15 KVA 1x 2P-15A 3x 1P-15A 24 CCT - REUSE EXISTING CONTACTOR ELECTRICAL EQUIPMENT



EXISTING LAYOUT

THE EXISTING CONDUITS DURING EXCAVATION & POURING THE NEW BASE.

2. NEW CONCRETE BASE FOUNDATION BUILT TO HYDRO-OTTAWA STANDARD MCS0035.

NEW LAYOUT

CONTACTOR

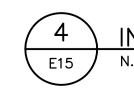
PANEL

1x 2P-15A 3x 1P-15A

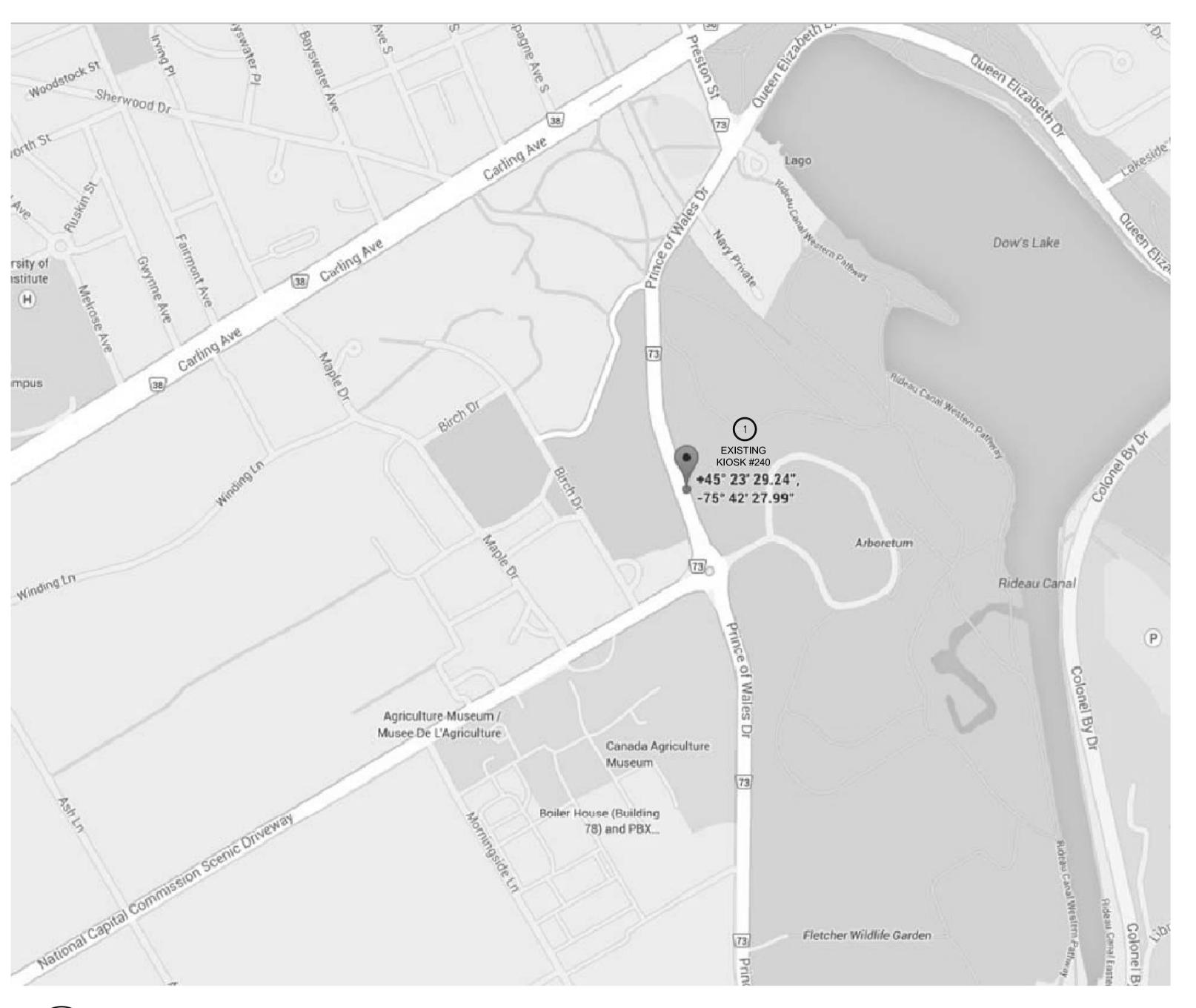
24 CCT

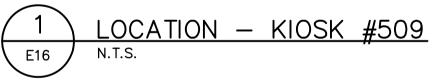
- REUSE EXISTING

ELECTRICAL EQUIPMENT



INTERNAL LAYOUTS FOR KIOSK #508

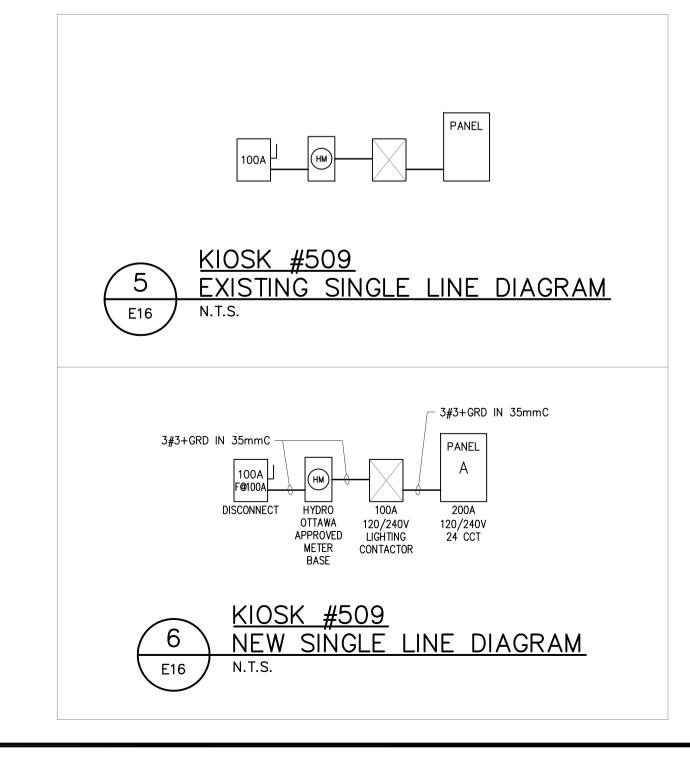


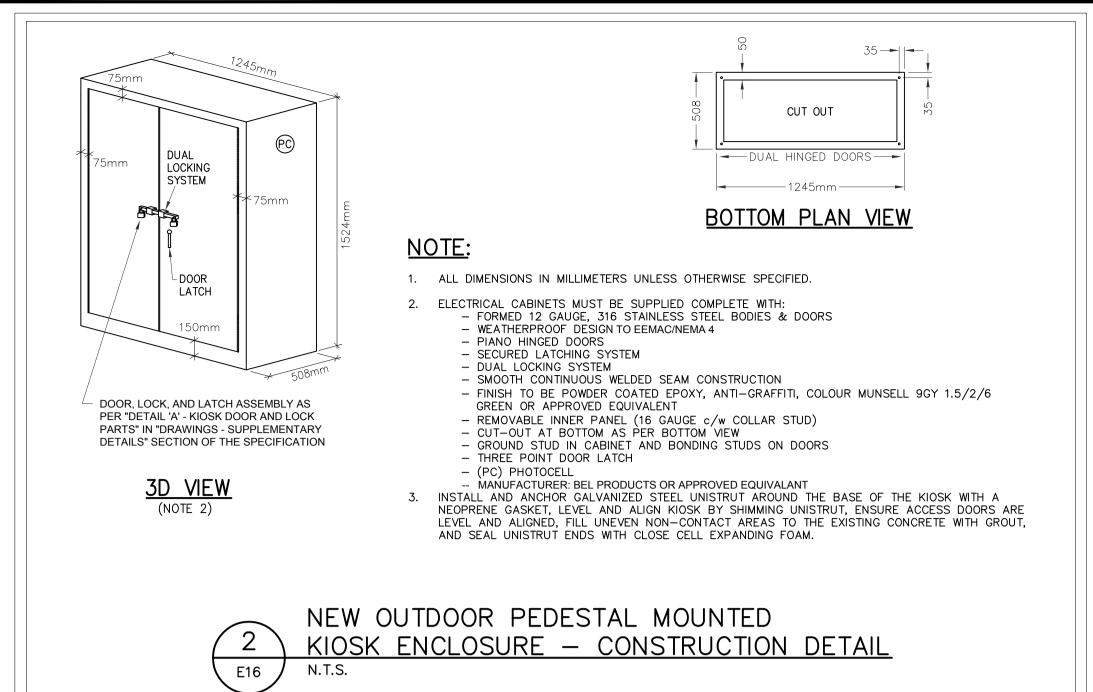


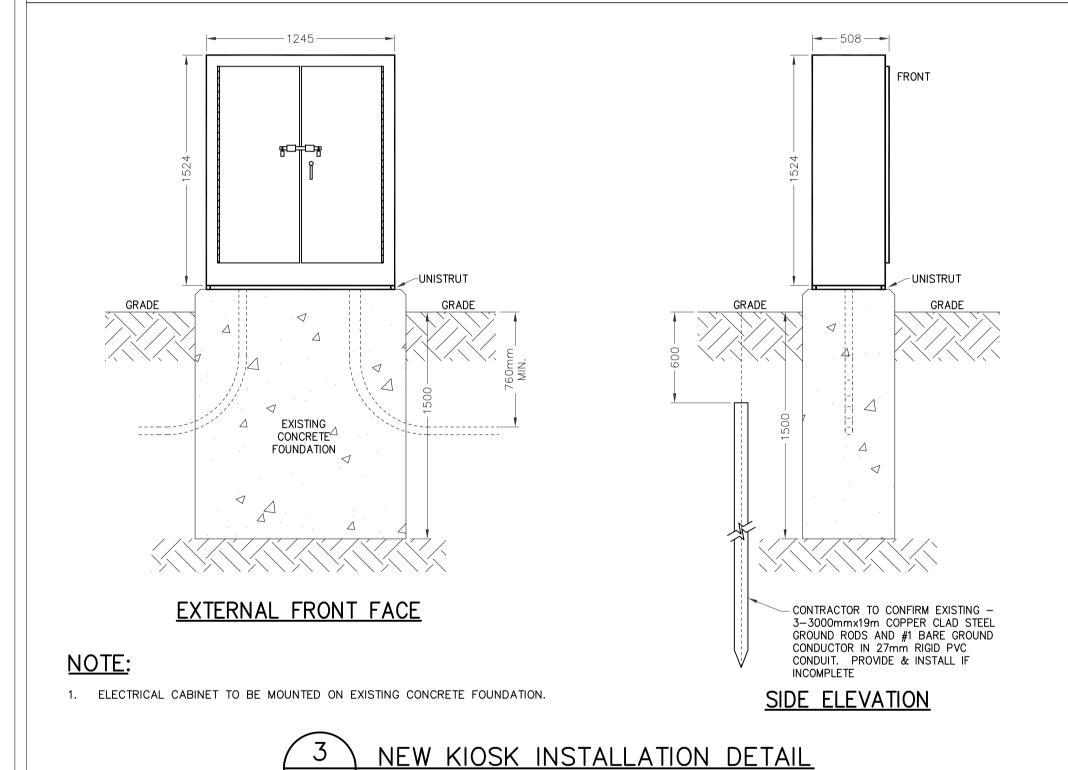
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- 4. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO IDENTIFY ON SITE THE EXISTING FEEDERS TO BE REMOVED, RELOCATED, AND EXTENDED.

CONTRACTOR TO REPLACE THE EXISTING KIOSK C/W THE ELECTRICAL DISTRIBUTION SHOWN IN DETAIL 4 "EXISTING LAYOUT" AND EXISTING SINGLE LINE (5/E16) WITH NEW KIOSK AND REUSING THE EXISTING ELECTRICAL EQUIPMENT AS SHOWN IN DETAIL 4 "NEW LAYOUT" AND NEW SINGLE LINE (6/E16). CONTRACTOR TO RECONNECT AND/OR EXTEND THE EXISTING WIRING CIRCUITS.

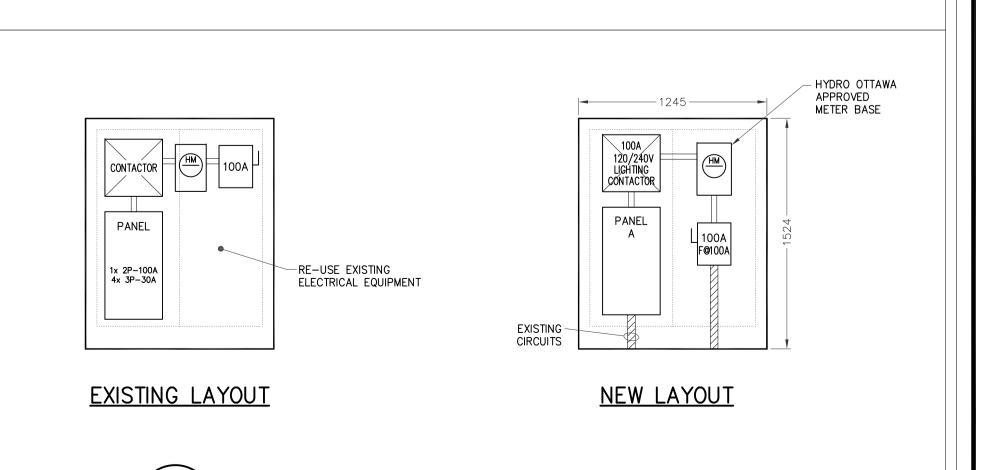
SPECIFIC NOTES:







E16



INTERNAL LAYOUTS FOR KIOSK #509



Capital Planning and Real Asset Management Branch Direction de l'aménagement de la capitale et gestion de l'immobilier

> Design and Construction Division Division design et construction

director - Daniel Miron - directeur

consultant expert-conseil



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2013-12-02 2 ISSUED FOR TENDER ISSUED FOR 95% REVIEW 2013-10-23 date project

> **ELECTRICAL KIOSK** REPLACEMENT - CORE AREA -

drawing dessin

DC4000-19

projet

issued or revised émis ou revisé

KIOSK #509

(81-135 Prince of Wales Dr.)

approved by James Huynh approuvé par conçu par drawn by dessiné par scale date échelle As Shown NCC project no. sheet no. no. du projet de la CCN no. de la feuille

National Capital Commission - Commission de la capitale nationale

sheet size: ISO_A1

Genivar Project # 131-22086-00