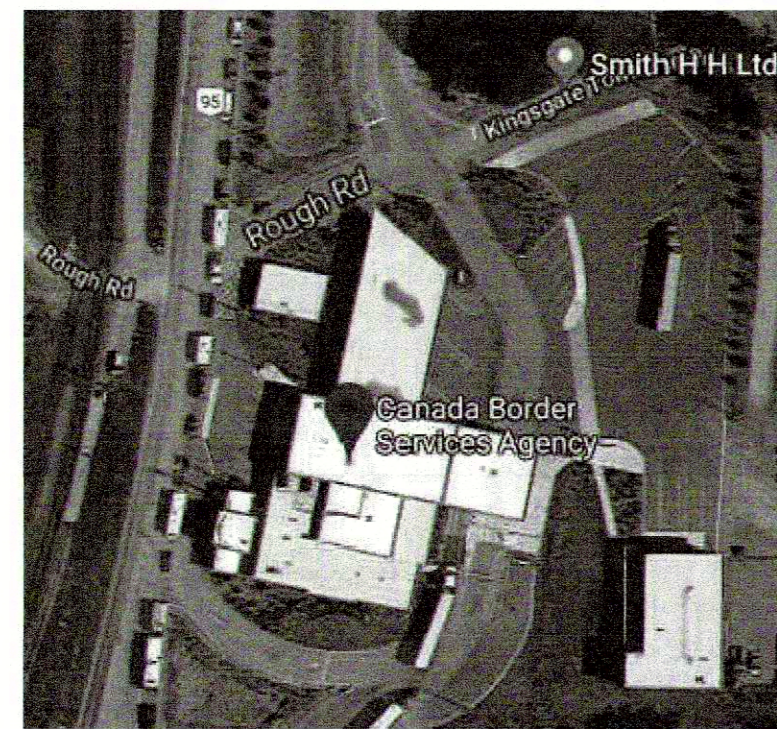


WANETA BORDER CROSSING SERVICES
* RETRIEVED FROM GOOGLE MAPS



KINGSGATE BORDER CROSSING SERVICES
* RETRIEVED FROM GOOGLE MAPS



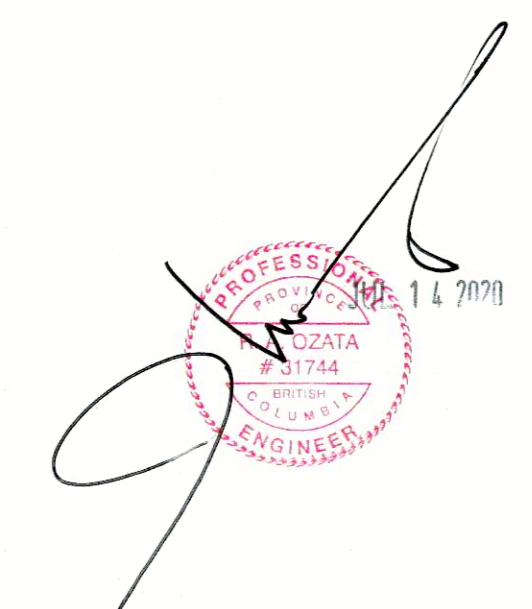
HUNTINGDON BORDER CROSSING SERVICES
* RETRIEVED FROM GOOGLE MAPS

MECHANICAL ABBREVIATIONS	
AD	AREA DRAIN
AFF	ABOVE FINISHED FLOOR
BDD	BACKDRAFT DAMPER
BF	BOTTLE FILLER
BFP	BACKFLOW PREVENTER
BHP	BREAK HORSEPOWER
BTUH	BRITISH THERMAL UNIT / HOUR
CD	CONTROL DAMPER
CB	CATCH BASIN
CLG	CEILING
CONN	CONNECTION
CW	COMPLETE WITH
CONT	CONTINUATION
DB	DRY BULB
CTE	CONNECT TO EXISTING
DDC	DIRECT DIGITAL CONTROL
DEG	DEGREE
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
EIA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EF	EXHAUST FAN
EFF	EFFICIENCY
ELEC	ELECTRICAL
ENT	ENTERING
ESP	EXTERNAL STATIC PRESSURE
EXH	EXHAUST
F	FIRE MAIN
FE	FIRE EXTINGUISHER
FLA	FULL LOAD AMPS
HD	HUB DRAIN
HB	HOSE BIBB
HP	HORSEPOWER
ID	INSIDE DIAMETER
KW	KILOWATT
MAX	MAXIMUM
MH	MANHOLE
MD	MOTORIZED DAMPER
MECH	MECHANICAL
MIN	MINIMUM
NFHB	NON FREEZE WALL HYDRANT
NIC	NOT IN CONTRACT
NC	NOISE CRITERION/NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
O/A	OUTDOOR AIR
OBD	OPPOSED BLADE DAMPER
OD	OUTSIDE DIAMETER
PCC	POINT OF CONNECTION
PRV	PRESSURE REDUCING VALVE
R/A	RETURN AIR
RF	RETURN FAN
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
S/A	SUPPLY AIR
SF	SUPPLY FAN
SS	STAINLESS STEEL
SP	STATIC PRESSURE
SPEC	SPECIFICATION
TBC	TO BE CONFIRMED
TBD	TO BE DETERMINED
TD	TRENCH DRAIN
THRU	THROUGH
TS	TAMPER SWITCH
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
V	VENT
VFD	VARIABLE FREQUENCY DRIVE
VTR	VENT THROUGH ROOF
WB	WET BULB
WC	WATER CLOSET
WCO	WALL CLEANOUT
WG	WATER GAUGE

GENERAL NOTES	
SEPARATE PRICE FOR KINGSGATE BORDER CROSSING FACILITY:	
<ul style="list-style-type: none"> ADD PIPING AND IDENTIFICATION FOR FUEL LINES. REFER TO DRAWING FOR DETAILS. ADD SERVICE LIGHT AND ALL ASSOCIATED ELECTRICAL WORK FOR NEW FILL STATION PLATFORM. REFER TO ELECTRICAL DRAWINGS. 	
SEPARATE PRICE FOR HUNTINGDON BORDER CROSSING FACILITY:	
<ul style="list-style-type: none"> ADD HIGH TEMPERATURE THERMAL INSULATION ON GENERATOR EXHAUST DUCT. REFER TO DRAWINGS FOR DETAILS. 	

MECHANICAL DRAWING LIST		
DRAWINGS NO.	DESCRIPTION	SCALE
M001	COVER PAGE, MECHANICAL SYMBOLS, ABBREVIATIONS	NTS
M100	WANETA DEMO & RENO PLANS	NTS
M200	KINGSGATE COVER PAGE, SYMBOLS, SCHEDULES	NTS
M201	KINGSGATE EMERGENCY GENERATOR ROOM DEMO & RENO PLANS	1:50
M300		
M301	HUNTINGDON EMERGENCY GENERATOR ROOM DEMO PLAN	1:25
M302	HUNTINGDON EMERGENCY GENERATOR ROOM RENO PLAN	1:25
M303	HUNTINGDON MECHANICAL DETAILS	NTS

SYMBOL SCHEDULE			
PIPING		SYSTEM MONITORING	
DEMOLITION	EXISTING	NEW	
			FUEL OIL RETURN (FOR)
			FUEL OIL SUPPLY (FOS)
			VENT
			CONDENSATE DRAIN
FITTINGS AND VALVES			
			DIRECTION OF FLOW
			PIPE DROP
			PIPE RISE
			PIPE TEE UP
			PIPE TEE DOWN
			PIPE UNION
			ISOLATION VALVE (NORMALLY OPEN)
			ISOLATION VALVE (NORMALLY CLOSED)
			CHECK VALVE
			2-WAY CONTROL VALVE
			3-WAY CONTROL VALVE
			BALANCING VALVE
			PRESSURE REDUCING VALVE (PRV)
			STRAINER
			RELIEF VALVE
			BACKFLOW PREVENTOR (BFP)
			AUTOMATIC AIR VENT (AAV)
			SEISMIC GAS SHUT-OFF VALVE
			TEMPERATURE GAUGE
			PRESSURE GAUGE
			THERMOMETER
			PUMP
DUCTWORK			
			SUPPLY OR OUTDOOR AIR DUCT UP
			SUPPLY OR OUTDOOR AIR DUCT DOWN
			RETURN AIR DUCT UP
			RETURN AIR DUCT DOWN
			EXHAUST AIR DUCT UP
			EXHAUST AIR DUCT DOWN
			TURNING VANES
			ACOUSTIC INSULATION
			BALANCING DAMPER (BD)
			BACKDRAFT DAMPER (BDD)
			MOTORIZED DAMPER (MD)
			FIRE DAMPER - VERTICAL (FD)
			FIRE DAMPER - HORIZONTAL (FD)
			DUCT OR PIPE CAP-OFF
			RETURN OR EXHAUST AIR GRILLE
			UNDER-CUT DOOR
FIRE PROTECTION			
			FIRE EXTINGUISHER
EQUIPMENT TAGS			
			GRILLE TYPE
			NECK /GRILLE SIZE
			AIR VOLUME (L/s)
			EQUIPMENT / FIXTURE TYPE
			GENERAL NOTE
			DRAWING REVISION
			DETAIL NUMBER
			DRAWING NUMBER
			SECTION NUMBER



Revision/	Description/Description	Date/Date
5		
4		
3	Issued for tender	24/12/19
2	Issued for tender review	13/12/19
1	Issued for 40% review	29/11/19
0	Issued for coordination	06/11/19

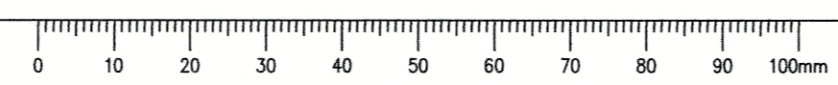
Client/client
ROYAL CANADIAN MOUNTED POLICE

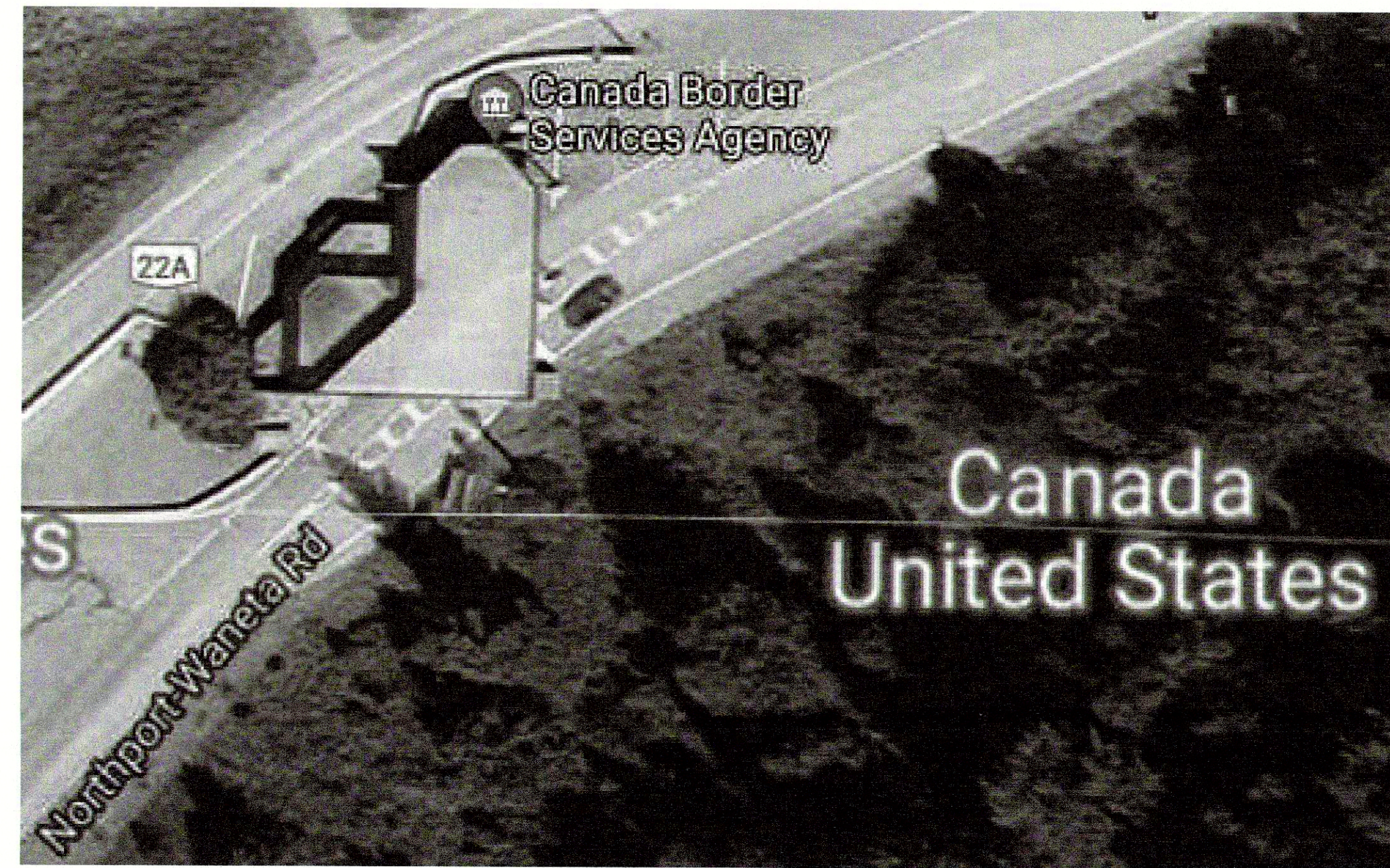
Project title/Titre du projet
BORDER CROSSING FACILITY
CBSA FUEL STORAGE TANKS REPLACEMENT

Consultant Signature Box Only
Designed by/Concept par
SC
Drawn by/Dessiné par
SC
PWSC Project Manager/Administrateur de Projets TPSC
KASHA FOSTER
PWSC, Regional Manager, Architectural and Engineering Services/
Gestionnaire régionale, Services d'architecture et de génie, TPSC
PREETIPAL PAUL

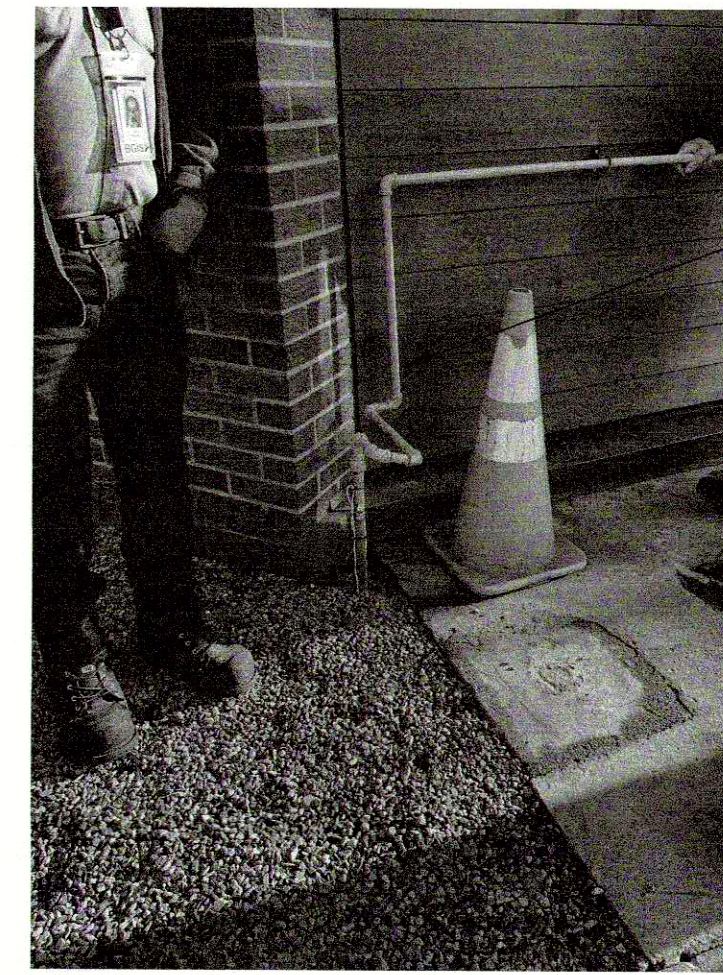
Drawing title/Titre du dessin
**COVER PAGE,
MECHANICAL SYMBOLS
AND ABBREVIATIONS**

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R107701.002	M001 OF XX	0



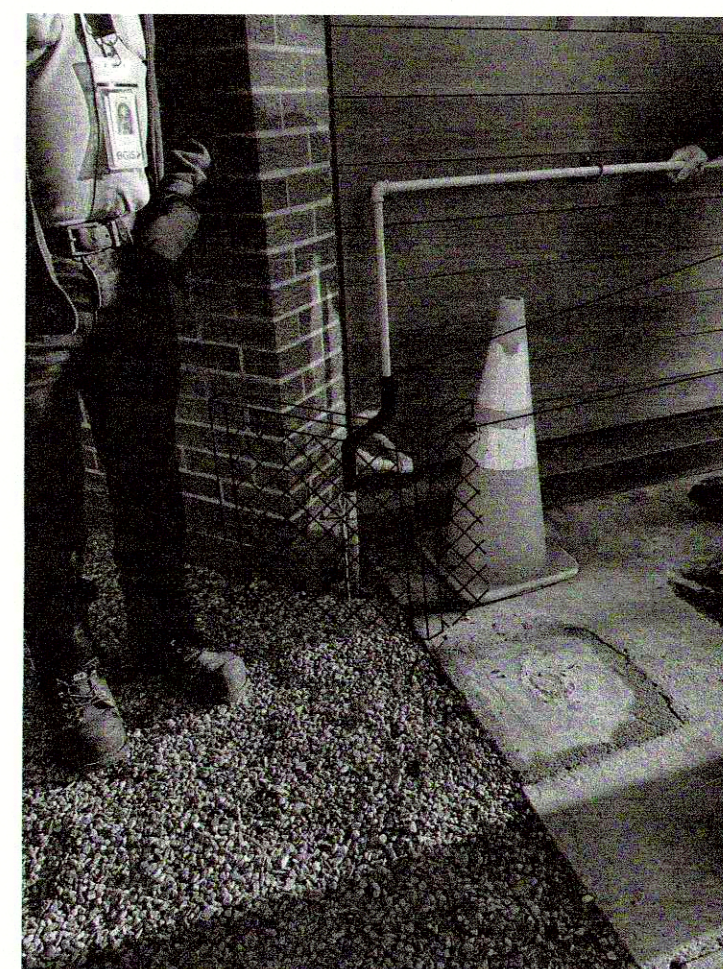


WANETA BORDER CROSSING SERVICES
 *RETRIEVED FROM GOOGLE MAPS.



- DEMO THE NATURAL GAS PIPE ELBOWS AT THE WALL CORNER
- CAP-OFF THE NATURAL GAS LINE

1 WANETA DEMO PLAN
 M100 SCALE: NTS



- RELOCATE THE NATURAL GAS PIPE ELBOW TO PREVENT TRIPPING HAZARD.
- PROVIDE STAINLESS STEEL CONSTRUCTION KICK PROTECTION, ANCHOR TO THE CONCRETE SLAB AND TO THE BRICK WALL.

2 WANETA RENO PLAN
 M100 SCALE: NTS

[Handwritten signature]
 OZATA
 01-14-2020
 ENGINEER

5		
4		
3	Issued for tender	24/12/19
2	Issued for tender review	13/12/19
1	Issued for AOE review	29/11/19
0	Issued for coordination	06/11/19
Revision/	Description/Description	Date/Date
Revision		

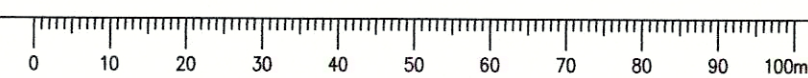
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ROYAL CANADIAN MOUNTED POLICE

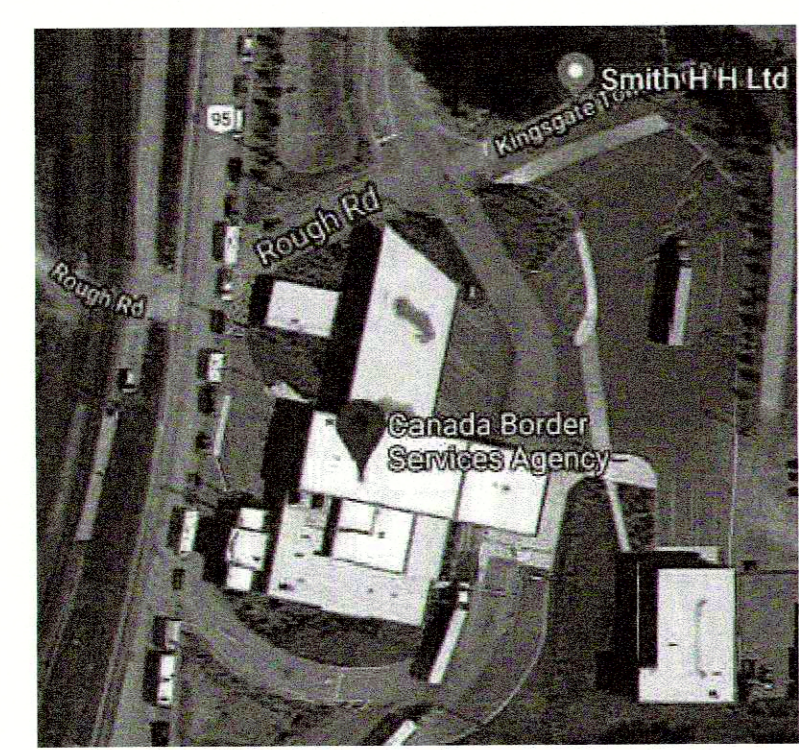
Project title/Titre du projet
BORDER CROSSING FACILITY
CBSA FUEL STORAGE TANKS REPLACEMENT

Consultant Signature Box Only
 Designed by/Concept par
 SC
 Drawn by/Dessine par
 SC
 PWGSC Project Manager/Administrateur de Projets TPSGC
 KASHA FOSTER

Drawing title/Titre du dessin
WANETA COVER PAGE, NOTES AND SCOPE OF WORK

Project No./No. du projet R107701.002	Sheet/Fauille M100 OF XX	Revision no./ La Révision no. 0
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KINGSGATE BORDER CROSSING SERVICES
* RETRIEVED FROM GOOGLE MAPS

MECHANICAL ABBREVIATIONS	
AD	AREA DRAIN
AFF	ABOVE FINISHED FLOOR
BDD	BACKDRAFT DAMPER
BF	BOTTLE FILLER
BFP	BACKFLOW PREVENTER
BHP	BREAK HORSEPOWER
BTUH	BRITISH THERMAL UNIT / HOUR
CD	CONTROL DAMPER
CB	CATCH BASIN
CLG	CEILING
CONN	CONNECTION
CW	COMPLETE WITH
CONT	CONTINUATION
DB	DRY BULB
CTE	CONNECT TO EXISTING
DDC	DIRECT DIGITAL CONTROL
DEG	DEGREE
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
E/A	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EF	EXHAUST FAN
EFF	EFFICIENCY
ELEC	ELECTRICAL
ENT	ENTERING
ESP	EXTERNAL STATIC PRESSURE
EXH	EXHAUST
F	FIRE MAIN
FE	FIRE EXTINGUISHER
FLA	FULL LOAD AMPS
HD	HUB DRAIN
HB	HOSE BIBB
HP	HORSEPOWER
ID	INSIDE DIAMETER
KW	KILOWATT
MAX	MAXIMUM
MH	MANHOLE
MD	MOTORIZED DAMPER
MECH	MECHANICAL
MIN	MINIMUM
NFB	NON FREEZE WALL HYDRANT
NIC	NOT IN CONTRACT
NC	NOISE CRITERIA/NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
O/A	OUTDOOR AIR
OBD	OPPOSED BLADE DAMPER
OD	OUTSIDE DIAMETER
POC	POINT OF CONNECTION
PRV	PRESSURE REDUCING VALVE
RA	RETURN AIR
RF	RETURN FAN
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
S/A	SUPPLY AIR
SF	SUPPLY FAN
SS	STAINLESS STEEL
SP	STATIC PRESSURE
SPEC	SPECIFICATION
TBC	TO BE CONFIRMED
TBD	TO BE DETERMINED
TD	TRENCH DRAIN
THRU	THROUGH
TS	TAMPER SWITCH
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
V	VENT
VFD	VARIABLE FREQUENCY DRIVE
VTR	VENT THROUGH ROOF
WB	WET BULB
WC	WATER CLOSET
WCO	WALL CLEANOUT
WG	WATER GAUGE

GENERAL NOTES	
SEPARATE PRICE:	
• ADD PIPING AND IDENTIFICATION FOR FUEL LINES. REFER TO DRAWING FOR DETAILS.	
• ADD SERVICE LIGHT AND ALL ASSOCIATED ELECTRICAL WORK FOR NEW FILL STATION PLATFORM. REFER TO ELECTRICAL DRAWINGS.	

MECHANICAL DRAWING LIST			
DRAWINGS NO.	DESCRIPTION	SCALE	
M200	KINGSGATE COVER PAGE, MECHANICAL SYMBOLS, SCHEDULES	NTS	
M201	KINGSGATE EMERGENCY GENERATOR ROOM DEMO & RENO PLANS	1:50	

STORAGE TANK									
EQUIPMENT TAG	SERVICE	LOCATION	DESCRIPTION	MANUFACTURER	MODEL NO	SIZE (LxWxH) MM	CAPACITY	CONSTRUCTION	NOTES
CS1-1	KINGSGATE	EMERGENCY GENERATOR	CONDENSATE STORAGE	AXIOM	MF300	300x300x914	17.0		

NOTES:

- EPOXY COATED.
- CW ACCESS STAIRS & PLATFORM ASSEMBLY
- CW LEAK DETECTION MONITORING W/ ALARM
- VISUAL POSITIVE LEAK DETECTION MONITORING SYSTEM CW INTERSTITIAL EMERGENCY VENT AND TAMPER GUARD.
- ULC 5802 - DOUBLE WALL

SYMBOL SCHEDULE			
PIPING		SYSTEM MONITORING	
DEMOLITION	EXISTING	NEW	
FOR	FOS	FOS	FUEL OIL RETURN (FOR)
FOS	FOS	FOS	FUEL OIL SUPPLY (FOS)
V	V	V	VENT
C	C	C	CONDENSATE DRAIN
FITTINGS AND VALVES			
			DIRECTION OF FLOW
			PIPE DROP
			PIPE RISE
			PIPE TEE UP
			PIPE TEE DOWN
			PIPE UNION
			ISOLATION VALVE (NORMALLY OPEN)
			ISOLATION VALVE (NORMALLY CLOSED)
			CHECK VALVE
			2-WAY CONTROL VALVE
			3-WAY CONTROL VALVE
			BALANCING VALVE
			PRESSURE REDUCING VALVE (PRV)
			THROUGH
			TAMPER SWITCH
			RELIEF VALVE
			BACKFLOW PREVENTOR (BFP)
			AUTOMATIC AIR VENT (AAV)
			SEISMIC GAS SHUT-OFF VALVE
			TEMPERATURE GAUGE
			PRESSURE GAUGE
			THERMOMETER
			PUMP
DUCTWORK			
			SUPPLY OR OUTDOOR AIR DUCT UP
			SUPPLY OR OUTDOOR AIR DUCT DOWN
			RETURN AIR DUCT UP
			RETURN AIR DUCT DOWN
			EXHAUST AIR DUCT UP
			EXHAUST AIR DUCT DOWN
			TURNING VANES
			ACOUSTIC INSULATION
			BALANCING DAMPER (BD)
			BACKDRAFT DAMPER (BDD)
			MOTORIZED DAMPER (MD)
			FIRE DAMPER - VERTICAL (FD)
			FIRE DAMPER - HORIZONTAL (FD)
			DUCT OR PIPE CAP-OFF
			RETURN OR EXHAUST AIR GRILLE
			UNDER-CUT DOOR
FIRE PROTECTION			
			FIRE EXTINGUISHER
EQUIPMENT TAGS			
			GRILLE TYPE
			NECK / GRILLE SIZE
			AIR VOLUME (L/s)
			EQUIPMENT / FIXTURE TYPE
			GENERAL NOTE
			DRAWING REVISION
			DETAIL NUMBER
			DRAWING NUMBER
			SECTION NUMBER
			DRAWING NUMBER

5		
4		
3	Issued for tender	24/12/19
2	Issued for tender review	15/12/19
1	Issued for 40% review	29/11/19
0	Issued for coordination	06/11/19
Revision / Revision	Description / Description	Date / Date

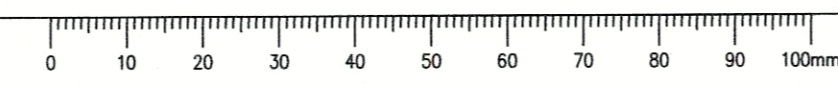
Client/client
ROYAL CANADIAN MOUNTED POLICE

Project title/Titre du projet
**BORDER CROSSING FACILITY
CBSA FUEL STORAGE TANKS
REPLACEMENT**

Consultant Signature Box Only
Designed by/Concept par
SC
Drawn by/Dessiné par
SC
PWGSC Project Manager/Administrateur de Projets TPSGC
KASHA FOSTER
PWGSC, Regional Manager, Architectural and Engineering Services/
Gestionnaire régionale, Services d'architecture et de génie, TPSGC
PREETIPAL PAUL

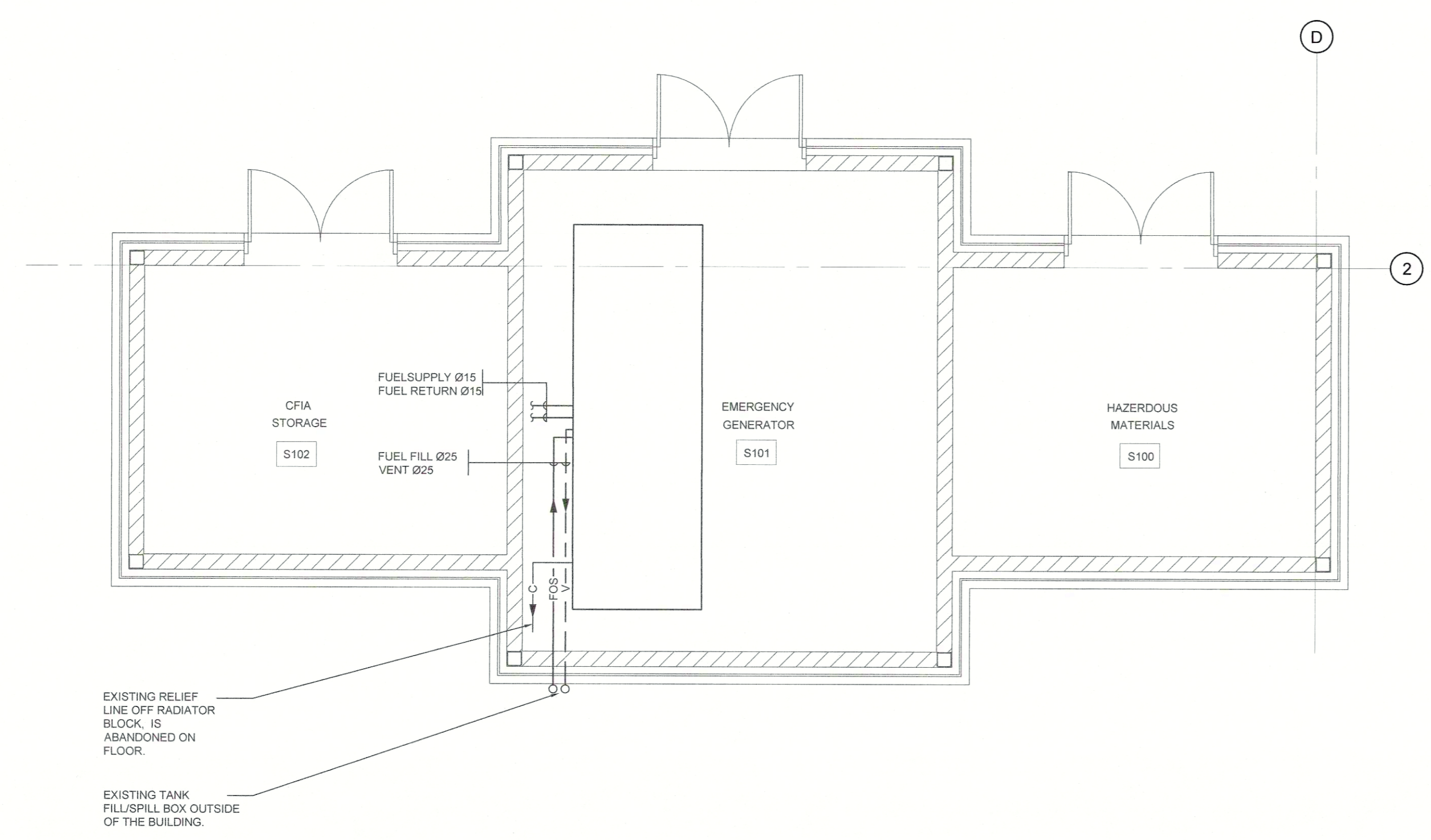
Drawing title/Titre du dessin
**KINGSGATE COVER PAGE,
MECHANICAL
SYMBOLS AND SCHEDULES**

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R107701.002	M200 OF XX	0

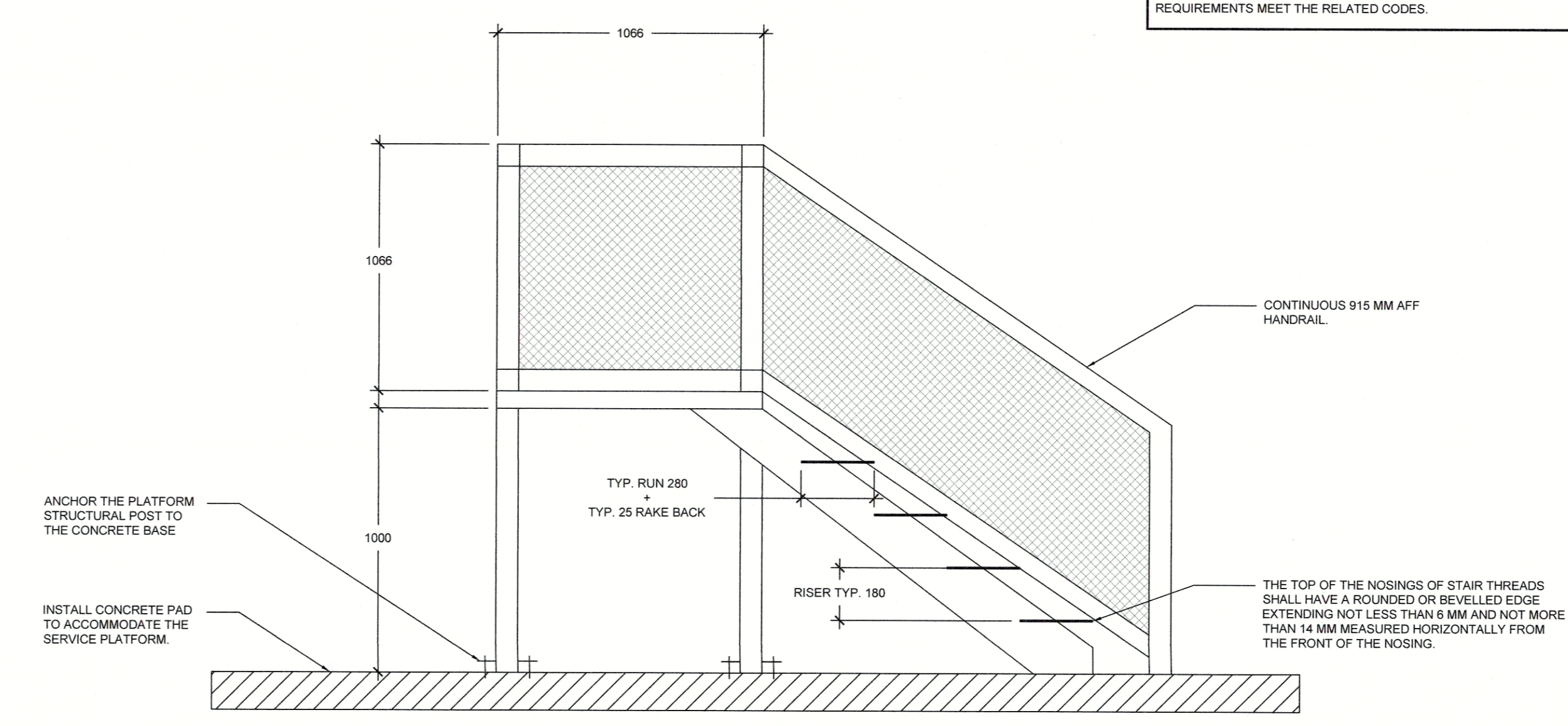




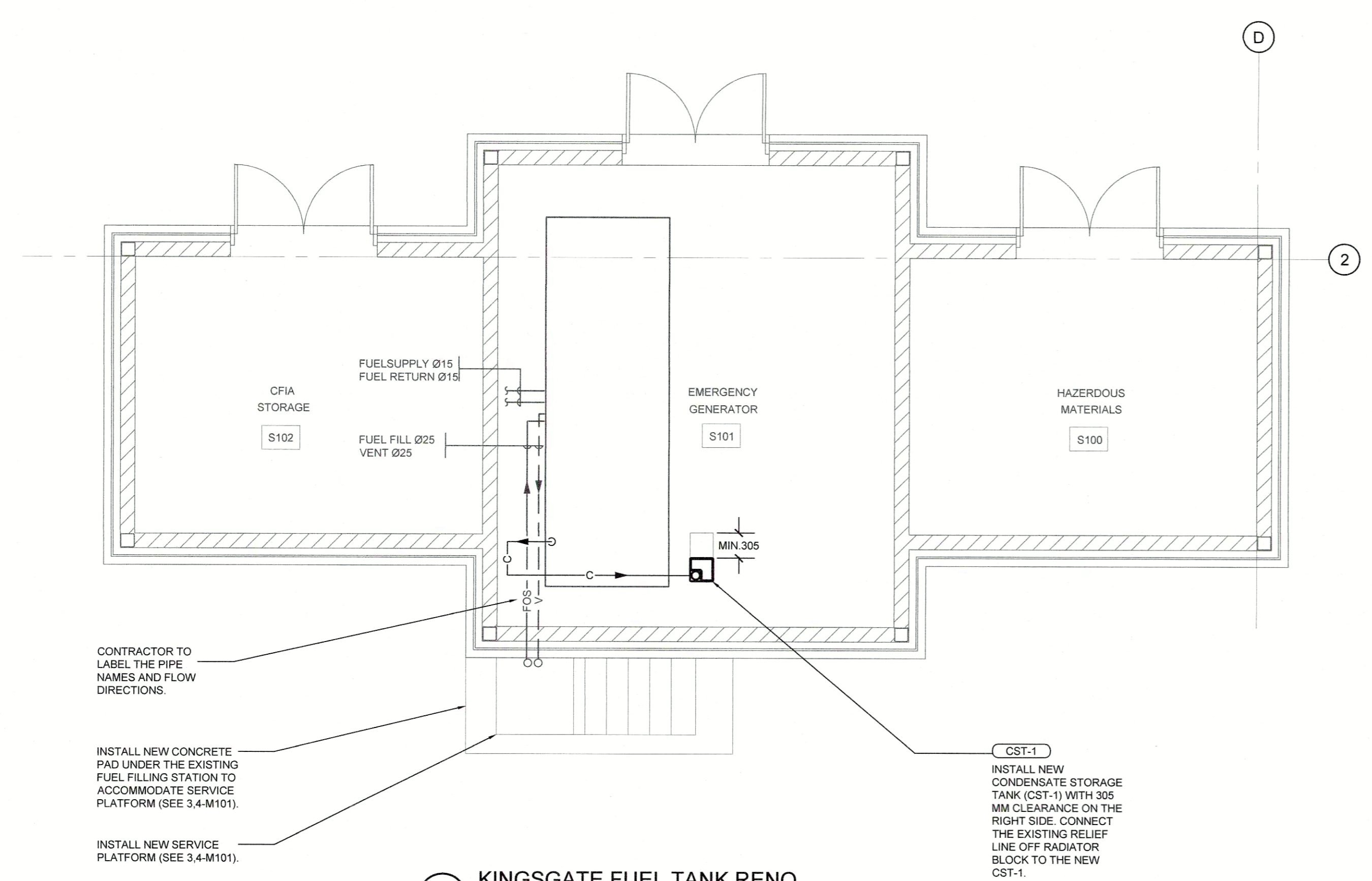
DISCLAIMER
ALL STAIRCASE DETAILS AND SPECIFICATIONS SHOWN FOR REFERENCE ONLY. CONTRACTOR IS TO MAKE SURE THE STAIRCASE DIMENSIONS, MATERIAL, THE CONCRETE PAD THICKNESS, DIMENSIONS, TYPES OF REINFORCEMENT AND STRUCTURAL REQUIREMENTS MEET THE RELATED CODES.



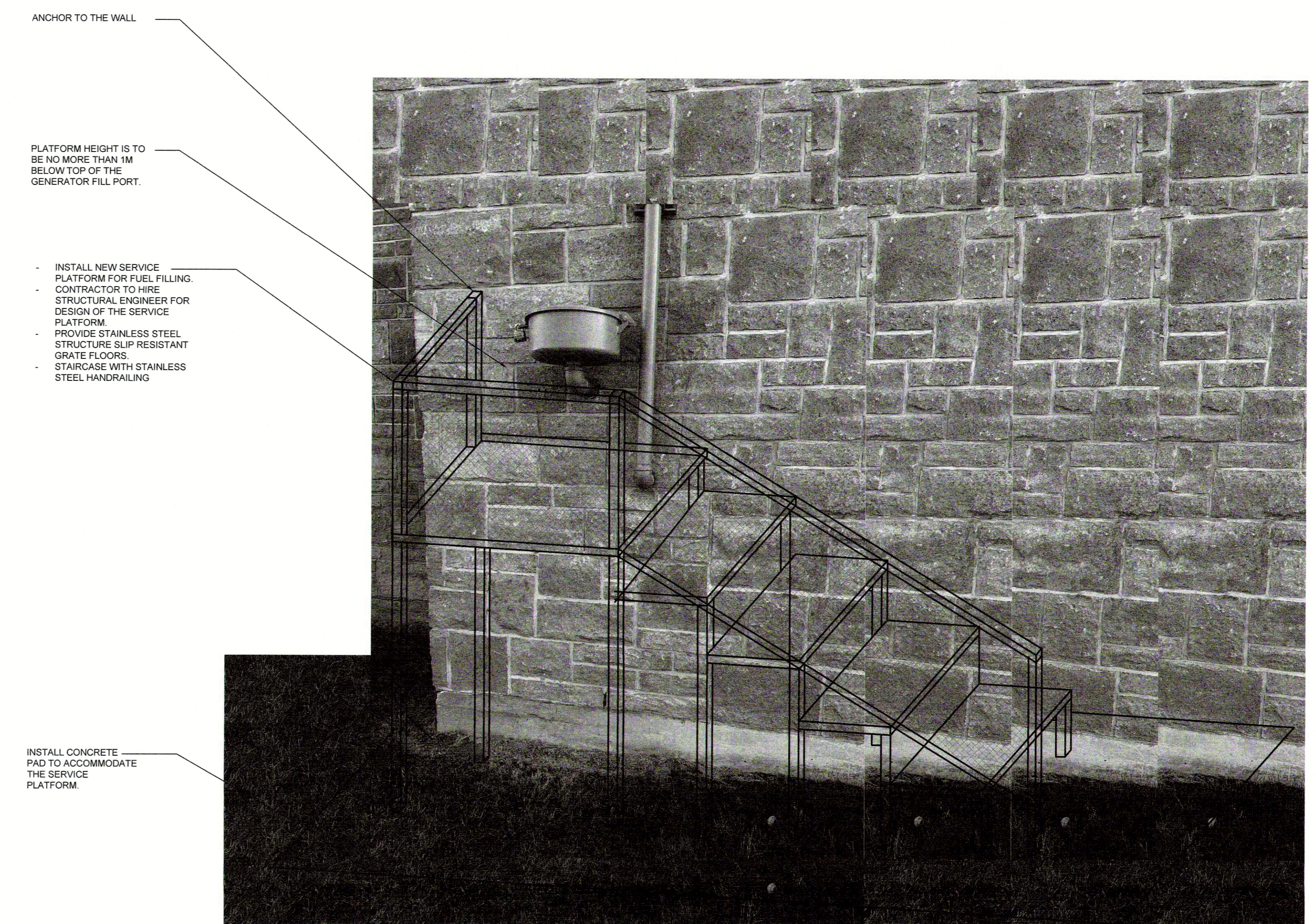
1 KINGSGATE FUEL TANK DEMO
SCALE: 1:50



3 KINGSGATE FUEL TANK DEMO
SCALE: NTS



2 KINGSGATE FUEL TANK RENO
SCALE: 1:50



4 SERVICE PLATFORM FOR FUEL FILLING STATION
SCALE: NTS

5		
4		
3	Issued for tender	24/12/19
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Revision/Description	Description/Description	Date/Date

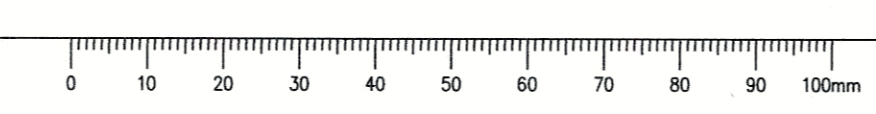
Client/client
ROYAL CANADIAN MOUNTED POLICE

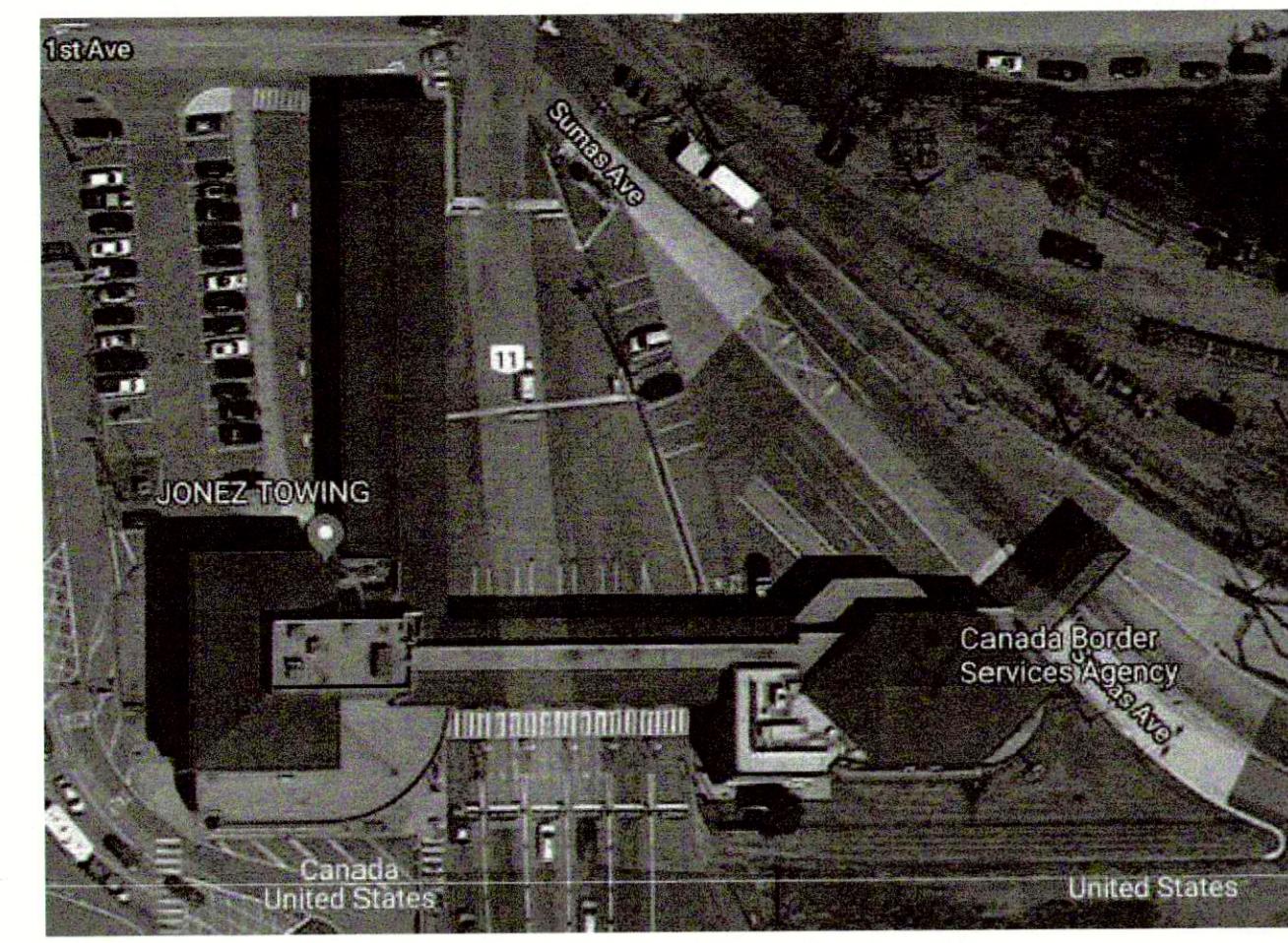
Project title/Titre du projet
**BORDER CROSSING FACILITY
CBSA FUEL STORAGE TANKS REPLACEMENT**

Consultant Signature Box Only
Designed by/Concept par SC
Drawn by/Dessiné par SC
PWGSC Project Manager/Administrateur de Projets TPSGC
KASHA FOSTER
PWGSC, Regional Manager, Architectural and Engineering Services / Gestionnaire régional, Services d'architectural et de génie, TPSGC
PREETIPAL PAUL

Drawing title/Titre du dessin
KINGSGATE EMERGENCY GENERATOR ROOM DEMO & RENO PLANS

Project No./No. du projet R107701.002	Sheet/Feuille M201 OF XX	Revision no./La Révision no. 0
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HUNTINGDON BORDER CROSSING SERVICES
RETRIEVED FROM GOOGLE MAPS

MECHANICAL ABBREVIATIONS			
AD	AREA DRAIN	MD	MOTORIZED DAMPER
AFF	ABOVE FINISHED FLOOR	MECH	MECHANICAL
BDD	BACKDRAFT DAMPER	MN	MINIMUM
BF	BOTTLE FILLER	NFB	NON FREEZE WALL HYDRANT
BFP	BACKFLOW PREVENTER	NI	NOT IN CONTRACT
BHP	BREAK HORSEPOWER	NC	NOISE CRITERION NORMALLY CLOSED
BTUH	BRITISH THERMAL UNIT / HOUR	NO	NORMALLY OPEN
CD	CONTROL DAMPER	NTS	NOT TO SCALE
CB	CATCH BASIN	OIA	OUTDOOR AIR
CLS	CEILING	OBD	OPPOSED BLADE DAMPER
CONN	CONNECTION	OD	OUTSIDE DIAMETER
CW	COMPLETE WITH	POC	POINT OF CONNECTION
CONT	CONTINUATION	PRV	PRESSURE REDUCING VALVE
DB	DRY BULB	RIA	RETURN AIR
CTE	CONNECT TO EXISTING	RF	RETURN FAN
DDC	DIRECT DIGITAL CONTROL	RM	ROOM
DEG	DEGREE	RPM	REVOLUTIONS PER MINUTE
DIA	DIAMETER	SIA	SUPPLY AIR
DN	DOWN	SF	SUPPLY FAN
DWG	DRAWING	SS	STAINLESS STEEL
EIA	EXHAUST AIR	SP	STATIC PRESSURE
EAT	ENTERING AIR TEMPERATURE	SPEC	SPECIFICATION
EF	EXHAUST FAN	TBC	TO BE CONFIRMED
EFF	EFFICIENCY	TBD	TO BE DETERMINED
ELEC	ELECTRICAL	TD	TRENCH DRAIN
ENT	ENTERING	THRU	THROUGH
ESP	EXTERNAL STATIC PRESSURE	TS	TAMPER SWITCH
EXH	EXHAUST	TSP	TOTAL STATIC PRESSURE
F	FIRE MAIN	TYP	TYPICAL
FE	FIRE EXTINGUISHER	V	VENT
FLA	FULL LOAD AMPS	VFD	VARIABLE FREQUENCY DRIVE
HD	HUB DRAIN	VTR	VENT THROUGH ROOF
HB	HOSE BIBB	WB	WET BULB
HP	HORSEPOWER	WC	WATER CLOSET
ID	INSIDE DIAMETER	WCO	WALL CLEANOUT
KW	KILOWATT	WG	WATER GAUGE
MAX	MAXIMUM		
MH	MANHOLE		

GENERAL NOTES

SEPARATE PRICE:

- ADD HIGH TEMPERATURE THERMAL INSULATION ON GENERATOR EXHAUST DUCT. REFER TO DRAWINGS FOR DETAILS

MECHANICAL DRAWING LIST		
DRAWINGS NO	DESCRIPTION	SCALE
M300	HUNTINGDON COVER PAGE, MECHANICAL SYMBOLS, SCHEDULES	NTS
M301	HUNTINGDON EMERGENCY GENERATOR ROOM DEMO PLAN	1:25
M302	HUNTINGDON EMERGENCY GENERATOR ROOM RENO PLAN	1:25
M303	MECHANICAL DETAILS	NTS

STORAGE TANK									
EQUIPMENT TAG	SERVICE	LOCATION	DESCRIPTION	MANUFACTURER	MODEL NO	SIZE (LxWxH) MM	CAPACITY	CONSTRUCTION	NOTES
ST-1	HUNTINGDON	EMERGENCY GENERATOR	FUEL STORAGE	TIDYTANKS	1140HDW	1524x660x1270	855.503112	ONE PIECE WITH FLANGE HEADS	ALL

NOTES:

- EPOXY COATED
- CW ACCESS STAIRS & PLATFORM ASSEMBLY
- CW LEAK DETECTION MONITORING W/ ALARM
- VISUAL POSITIVE LEAK DETECTION MONITORING SYSTEM CW INTERSTITIAL EMERGENCY VENT AND TAMPER GUARD
- ULC 5802 - DOUBLE WALL

FUEL FILL STATION SCHEDULE	
SC-1 - DIRECT FILL ABOVE GROUND STORAGE TANK SPILL CONTAINER	<ul style="list-style-type: none"> POWERCOPVY 6221AST DIRECT FILL ABOVE GROUND STORAGE TANK SPILL CONTAINER 80 MM NPT THREADED BASE SCREWS DIRECTLY TO THE TANK RISER PIPE. INTEGRAL DRAIN VALVE. 263 L CAPACITY. RAIN SHEDDING COVER, WELDED-HINGE, LOCKABLE HATCH 12 GAUGE EPOXY POWDER COATED CONSTRUCTION, SPUN STEEL CONSTRUCTION.

HAND PUMP SCHEDULE	
P-1 - ROTARY HAND PUMP	<ul style="list-style-type: none"> FILL-RITE FR112 CAST ALUMINUM PUMP BUILT-IN CHECK VALVE AND STRAINER 38 LITER 100 REVOLUTIONS 25 MM INLET, 20 MM OUTLET, NPT-F PORTS 50 MM NPT-M TANK ADAPTER 20 MM NPT HOSE DIAMETER 2.4 M HOSE LENGTH NOZZLE SPOUT, STEEL SUCTION PIPE, ANTI-SIPHON VALVE

FUEL FILTER SCHEDULE							
EQUIPMENT TAG	LOCATION	DESCRIPTION	MANUFACTURER	MODEL NO	FILTER MICRON RATING	CAPACITY	NOTES
F-1	HUNTINGDON GENERATOR RM	TURBINE FUEL FILTER/WATER SEPARATOR	RACOR	900MA	REFER TO DRAWINGS	90GPH	1

NOTES:

EPOXY COATED BOWL.

PIPING				SYSTEM MONITORING		
DEMOLITION	EXISTING	NEW		DEMOLITION	EXISTING	NEW
FOR	FOS	FOR	FUEL OIL RETURN (FOR)	RTS	RTS	RTS
FOS	FOS	FOS	FUEL OIL SUPPLY (FOS)	RTS	RTS	RTS
			VENT	RTS	RTS	RTS
			CONDENSATE DRAIN	RTS	RTS	RTS

FITTINGS AND VALVES			
			DIRECTION OF FLOW
			PIPE DROP
			PIPE RISE
			PIPE TEE UP
			PIPE TEE DOWN
			PIPE UNION
			ISOLATION VALVE (NORMALLY OPEN)
			ISOLATION VALVE (NORMALLY CLOSED)
			CHECK VALVE
			2-WAY CONTROL VALVE
			3-WAY CONTROL VALVE
			BALANCING VALVE
			PRESSURE REDUCING VALVE (PRV)
			THROUGH
			RELIEF VALVE
			BACKFLOW PREVENTOR (BFP)
			AUTOMATIC AIR VENT (AAV)
			SEISMIC GAS SHUT-OFF VALVE
			TEMPERATURE GAUGE
			PRESSURE GAUGE
			THERMOMETER
			PUMP
			ENERGY METER
			BTU METER

DUCTWORK			
			SUPPLY OR OUTDOOR AIR DUCT UP
			SUPPLY OR OUTDOOR AIR DUCT DOWN
			RETURN AIR DUCT UP
			RETURN AIR DUCT DOWN
			EXHAUST AIR DUCT UP
			EXHAUST AIR DUCT DOWN
			TURNING VANES
			ACOUSTIC INSULATION
			BALANCING DAMPER (BD)
			BACKDRAFT DAMPER (BDD)
			MOTORIZED DAMPER (MD)
			FIRE DAMPER - VERTICAL (FD)
			FIRE DAMPER - HORIZONTAL (FD)
			DUCT OR PIPE CAP-OFF
			RETURN OR EXHAUST AIR GRILLE
			UNDER-CUT DOOR

FIRE PROTECTION	
	FIRE EXTINGUISHER

EQUIPMENT TAGS			
			GRILLE TYPE
			NECK / GRILLE SIZE
			AIR VOLUME (L/s)
			EQUIPMENT / FIXTURE TYPE
			GENERAL NOTE
			DRAWING REVISION
			DETAIL NUMBER
			DRAWING NUMBER
			SECTION NUMBER
			DRAWING NUMBER



Revision/	Description/Description	Date/Date
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4		
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ROYAL CANADIAN MOUNTED POLICE

Project title/Titre du projet

BORDER CROSSING FACILITY

CBSA FUEL STORAGE TANKS REPLACEMENT

Client/Client

Designed by/Concept par
SC

Drawn by/Dessiné par
SC

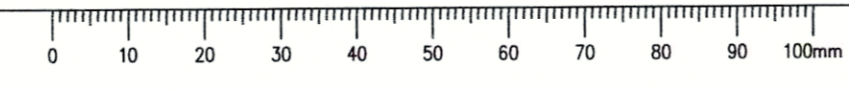
PWGSC Project Manager/Administrateur de Projets TFSGC
KASHA FOSTER

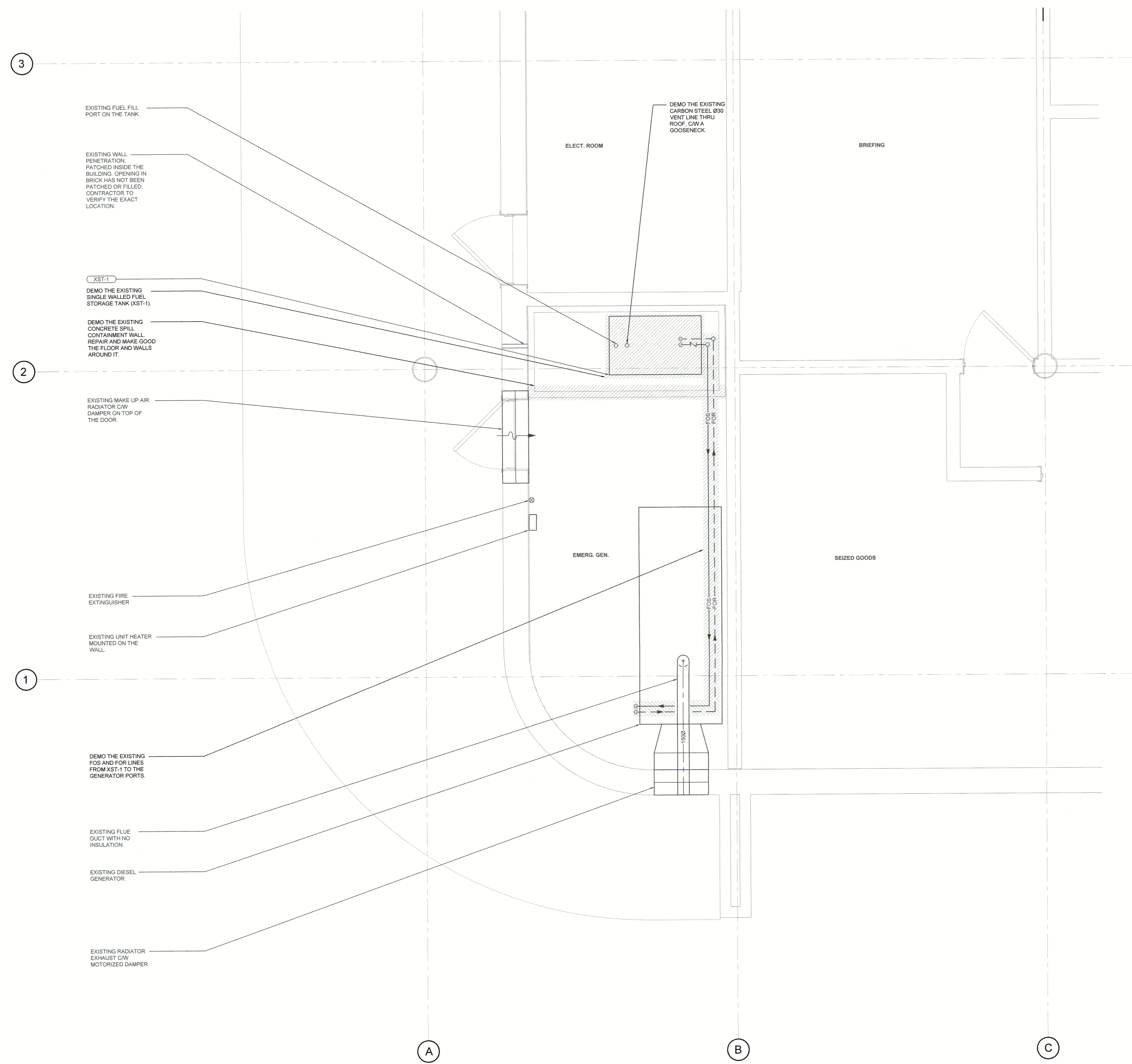
PWGSC, Regional Manager, Architectural and Engineering Services/
Gestionnaire Régional, Services d'architectural et de génie, TFSGC
PREETIPAL PAUL

Drawing title/Titre du dessin

HUNTINGDON COVER PAGE, MECHANICAL SYMBOLS AND SCHEDULES

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3

EXISTING FUEL FILL PORT ON THE TANK.

EXISTING WALL PENETRATION. PATCHED INSIDE THE BUILDING. OPENING IN BRICK HAS NOT BEEN PATCHED OR FILLED. CONTRACTOR TO VERIFY THE EXACT LOCATION.

XST-1

DEMO THE EXISTING SINGLE WALLED FUEL STORAGE TANK (XST-1).

DEMO THE EXISTING CONCRETE SPILL CONTAINMENT WALL. REPAIR AND MAKE GOOD THE FLOOR AND WALLS AROUND IT.

2

EXISTING MAKE UP AIR RADIATOR COW DAMPER ON TOP OF THE DOOR.

EXISTING FIRE EXTINGUISHER

EXISTING UNIT HEATER MOUNTED ON THE WALL.

1

DEMO THE EXISTING FOS AND FOR LINES FROM XST-1 TO THE GENERATOR PORTS.

EXISTING FLUE DUCT WITH NO INSULATION.

EXISTING DIESEL GENERATOR.

EXISTING RADIATOR EXHAUST COW MOTORIZED DAMPER.

ELECT. ROOM

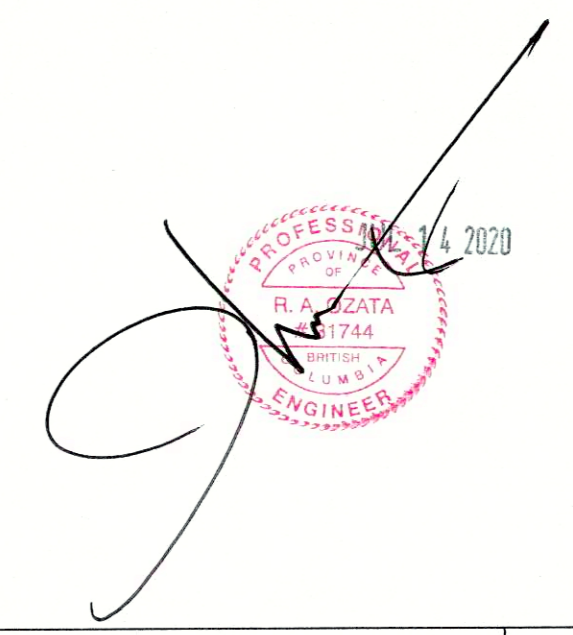
BRIEFING

EMERG. GEN.

SEIZED GOODS

A B C

HUNTINGDON FUEL STORAGE TANK DEMO
SCALE: 1:25



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4		
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Client/client
ROYAL CANADIAN MOUNTED POLICE

Project title/Titre du projet
**BORDER CROSSING FACILITY
CBSA FUEL STORAGE TANKS REPLACEMENT**

Consultant Signature Box Only

Designed by/Concept par
SC

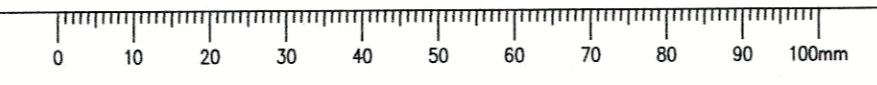
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SC

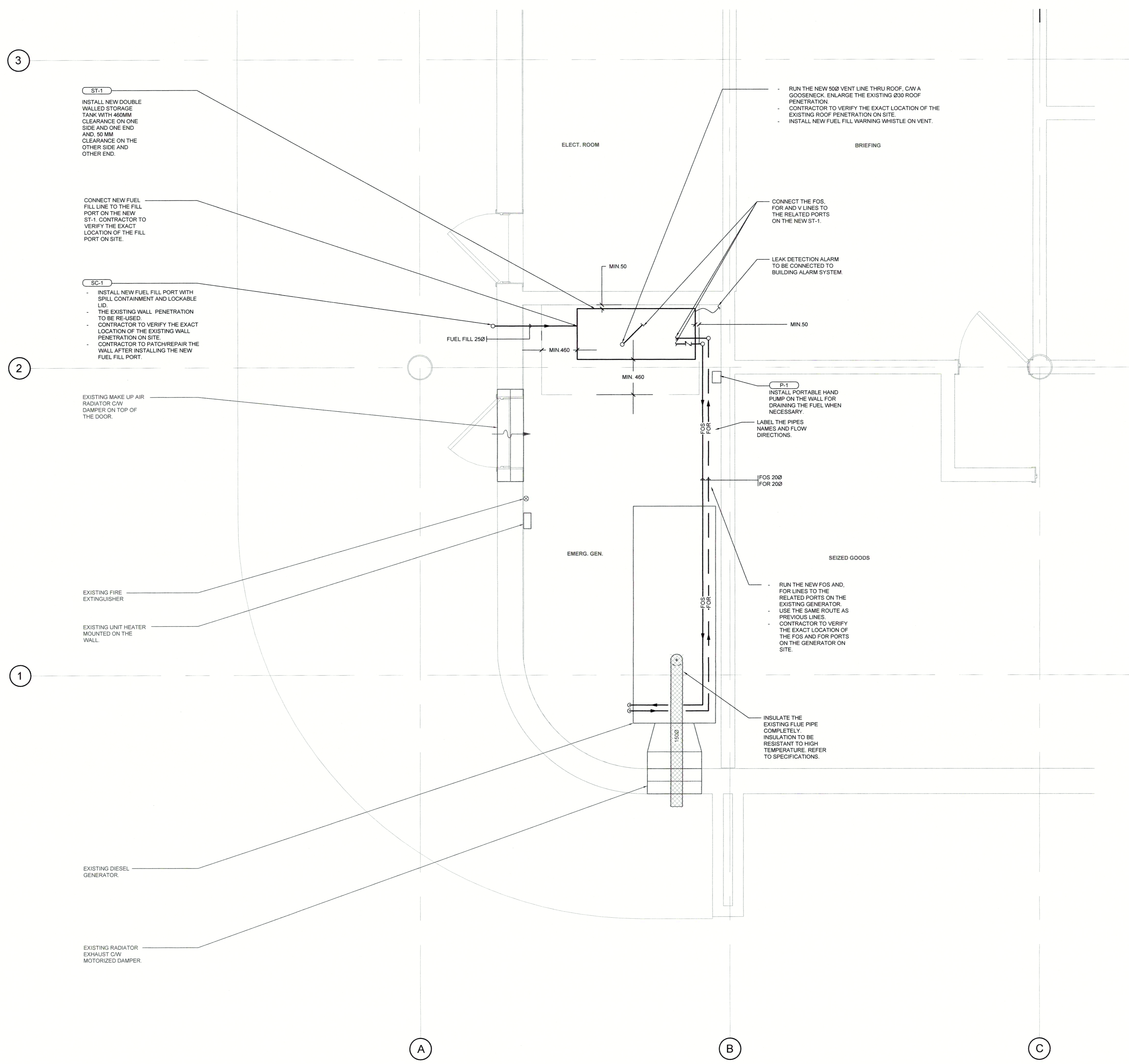
PWGSC Project Manager/Administrateur de Projets TPSGC
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PREETIPAL PAUL

Drawing title/Titre du dessin
HUNTINGDON EMERGENCY GENERATOR ROOM DEMO PLAN

Project No./No. du projet R107701.002	Sheet/Feuille M301 OF XX	Revision no./ La Révision no. 0
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ST-1
 INSTALL NEW DOUBLE WALLED STORAGE TANK WITH 460MM CLEARANCE ON ONE SIDE AND ONE END AND 90 MM CLEARANCE ON THE OTHER SIDE AND OTHER END.

SC-1
 - INSTALL NEW FUEL FILL PORT WITH SPILL CONTAINMENT AND LOCKABLE LID.
 - THE EXISTING WALL PENETRATION TO BE RE-USED.
 - CONTRACTOR TO VERIFY THE EXACT LOCATION OF THE EXISTING WALL PENETRATION ON SITE.
 - CONTRACTOR TO PATCH/REPAIR THE WALL AFTER INSTALLING THE NEW FUEL FILL PORT.

- RUN THE NEW FOS VENT LINE THRU ROOF CW A GOOSENECK. ENLARGE THE EXISTING Ø30 ROOF PENETRATION.
 - CONTRACTOR TO VERIFY THE EXACT LOCATION OF THE EXISTING ROOF PENETRATION ON SITE.
 - INSTALL NEW FUEL FILL WARNING WHISTLE ON VENT.

CONNECT THE FOS, FOR AND V LINES TO THE RELATED PORTS ON THE NEW ST-1.

LEAK DETECTION ALARM TO BE CONNECTED TO BUILDING ALARM SYSTEM.

B-1
 INSTALL PORTABLE HAND PUMP ON THE WALL FOR DRAINING THE FUEL WHEN NECESSARY.

LABEL THE PIPES NAMES AND FLOW DIRECTIONS.

- RUN THE NEW FOS AND FOR LINES TO THE RELATED PORTS ON THE EXISTING GENERATOR.
 - USE THE SAME ROUTE AS PREVIOUS LINES.
 - CONTRACTOR TO VERIFY THE EXACT LOCATION OF THE FOS AND FOR PORTS ON THE GENERATOR ON SITE.

INSULATE THE EXISTING FUE PIPE COMPLETELY. INSULATION TO BE RESISTANT TO HIGH TEMPERATURE. REFER TO SPECIFICATIONS.

EXISTING MAKE UP AIR RADIATOR CW DAMPER ON TOP OF THE DOOR.

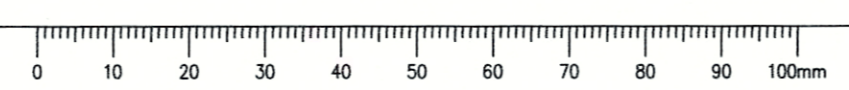
EXISTING FIRE EXTINGUISHER

EXISTING UNIT HEATER MOUNTED ON THE WALL

EXISTING DIESEL GENERATOR

EXISTING RADIATOR EXHAUST CW MOTORIZED DAMPER

1
M302 HUNTINGDON FUEL STORAGE TANK RENO
 SCALE: 1:25



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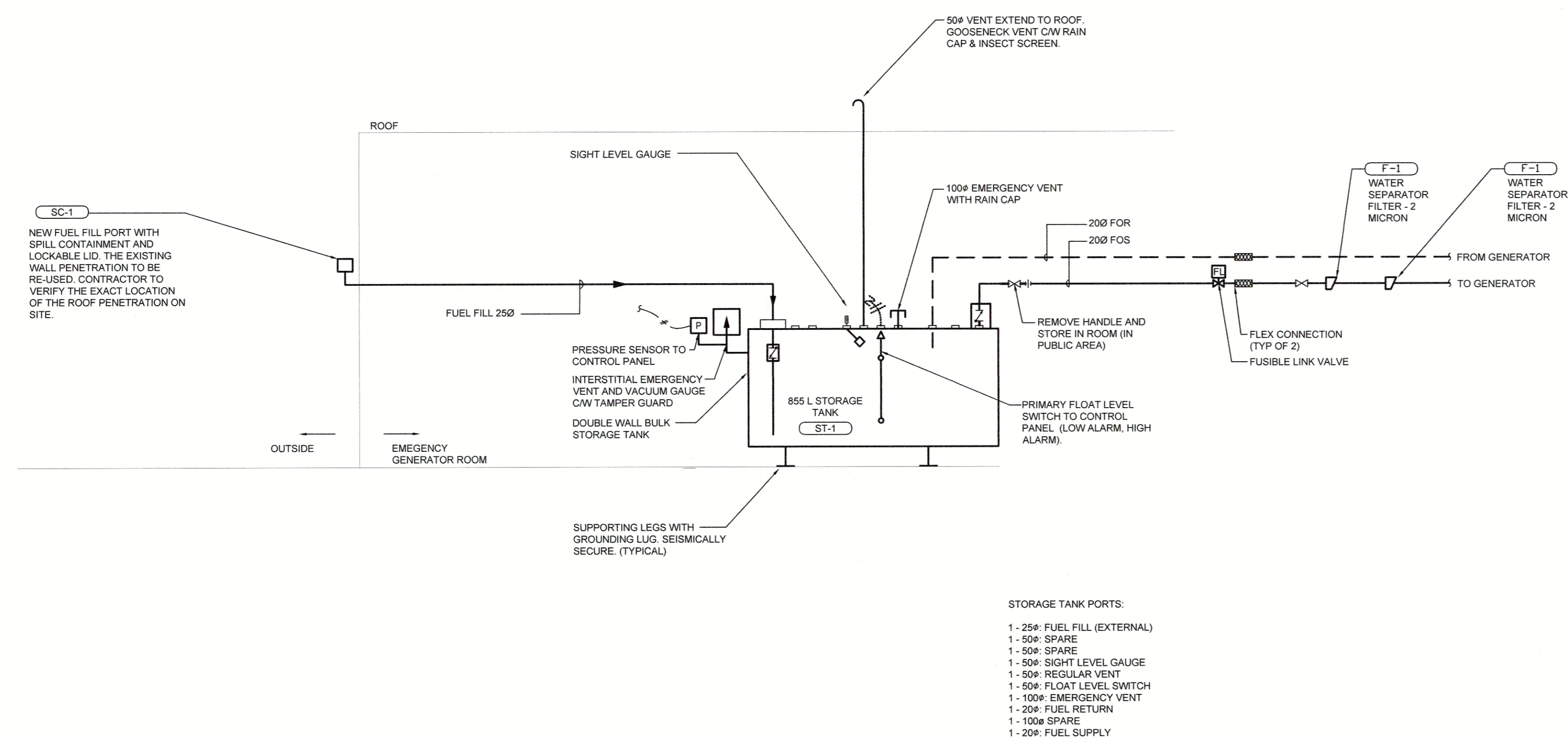
Client/client
ROYAL CANADIAN MOUNTED POLICE

Project title/Titre du projet
BORDER CROSSING FACILITY
CBSA FUEL STORAGE TANKS REPLACEMENT

Consultant Signature Box Only
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PREETIPAL PAUL

Drawing title/Titre du dessin
HUNTINGDON EMERGENCY GENERATOR ROOM RENO PLAN

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- STORAGE TANK PORTS:
- 1 - 250 FUEL FILL (EXTERNAL)
 - 1 - 500 SPARE
 - 1 - 500 SPARE
 - 1 - 500 SIGHT LEVEL GAUGE
 - 1 - 500 REGULAR VENT
 - 1 - 500 FLOAT LEVEL SWITCH
 - 1 - 1000 EMERGENCY VENT
 - 1 - 200 FUEL RETURN
 - 1 - 1000 SPARE
 - 1 - 200 FUEL SUPPLY

HUNTINGDON FUEL OIL SCHEMATIC
SCALE: NTS

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 OZATA
 # 31744
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ROYAL CANADIAN MOUNTED POLICE

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BORDER CROSSING FACILITY
CBSA FUEL STORAGE TANKS REPLACEMENT

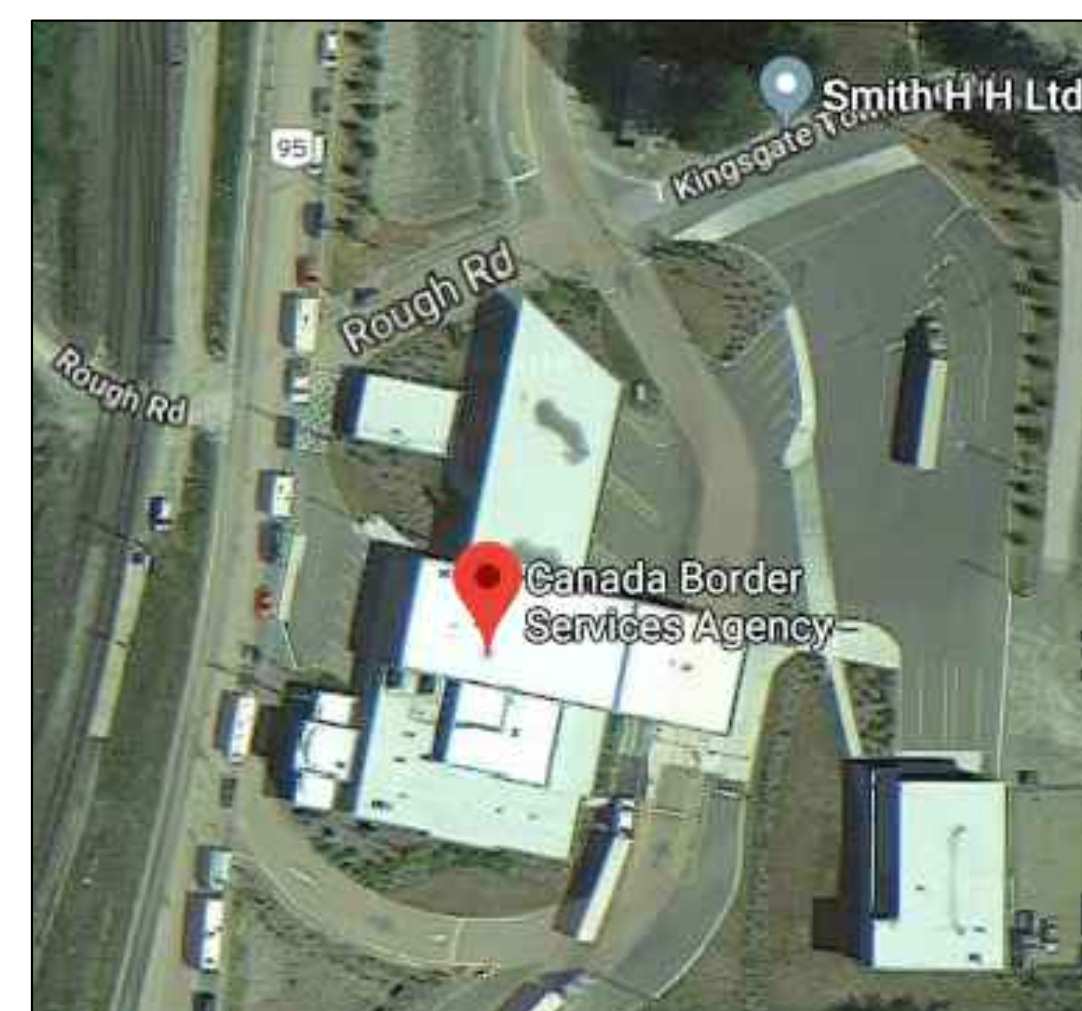
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 PWGSC Project Manager/Administrateur de Projets TPSGC
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 PREETIPAL PAUL

Drawing title/Titre du dessin
MECHANICAL DETAILS

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CBSA FUEL STORAGE TANKS REPLACEMENT



GENERAL ELECTRICAL SCOPE
1. ADD NEW LIGHT FIXTURE ABOVE NEW STAIR.

1 CBSA KINGSGATE CROSSING
E001



GENERAL ELECTRICAL SCOPE
1. NONE

2 CBSA WANETA BORDER CROSSING
E001



GENERAL ELECTRICAL SCOPE
1. ENSURE GENERATOR IS ELECTRICALLY ISOLATED BEFORE DIESEL TANK REPLACEMENT.
2. RECOMMISSION GENERATOR ONCE NEW FUEL PIPE AND NEW FUEL TANK REPLACEMENT HAS BEEN COMPLETED.

3 CBSA HUNTINGDON BORDER CROSSING
E001

ELECTRICAL DRAWING LIST	
E001	COVER PAGE
E200	KINGSGATE BORDER CROSSING
E301	HUNTINGDON BORDER CROSSING

5		
4		
3	ISSUED FOR TENDER	15/07/20
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Revision/Revisão	Description/Description	Date/Date

Client/client
CBSA CANADA BORDER SERVICE AGENCY

Project title/Titre du projet
BORDER CROSSING FACILITY
CBSA FUEL STORAGE TANKS REPLACEMENT

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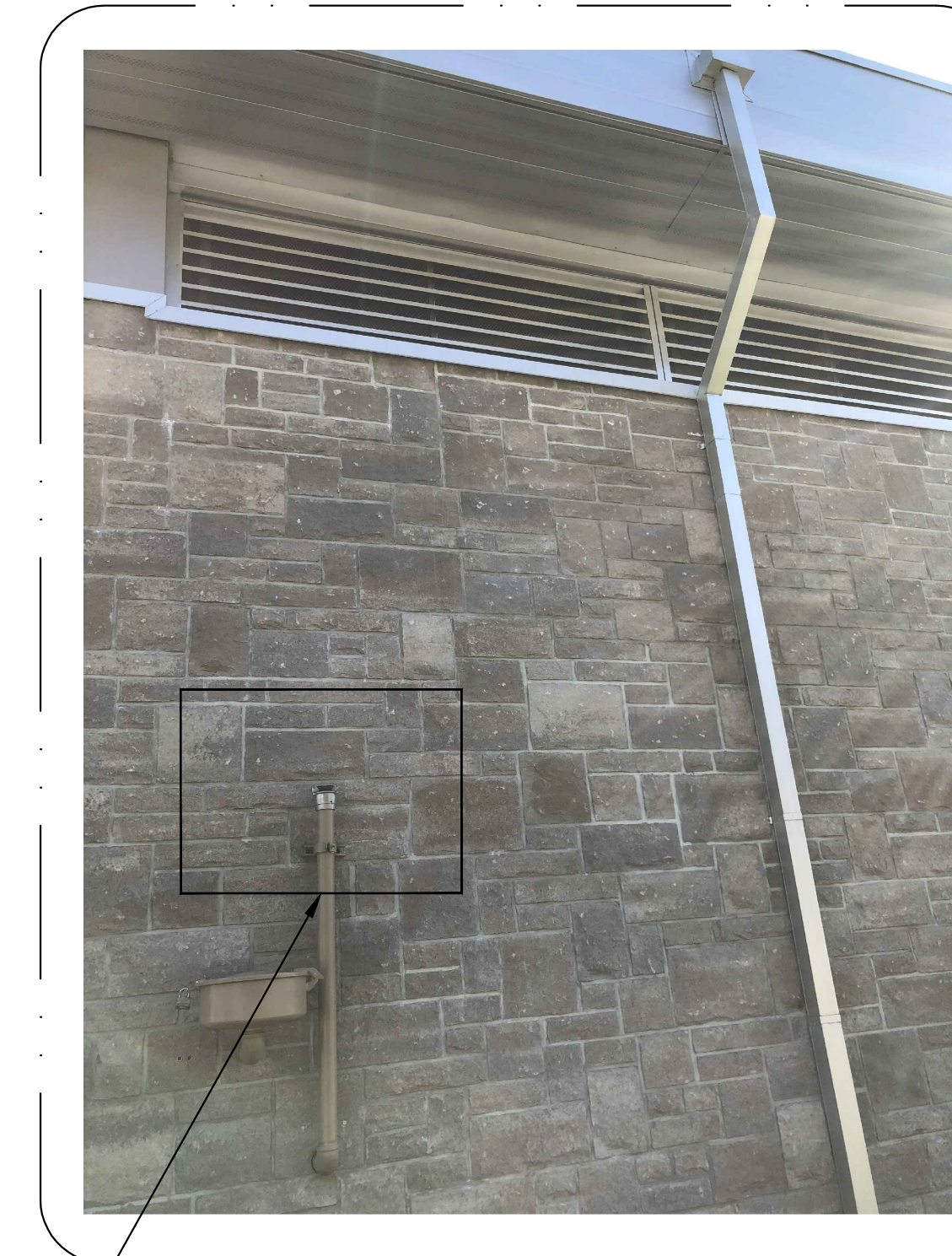
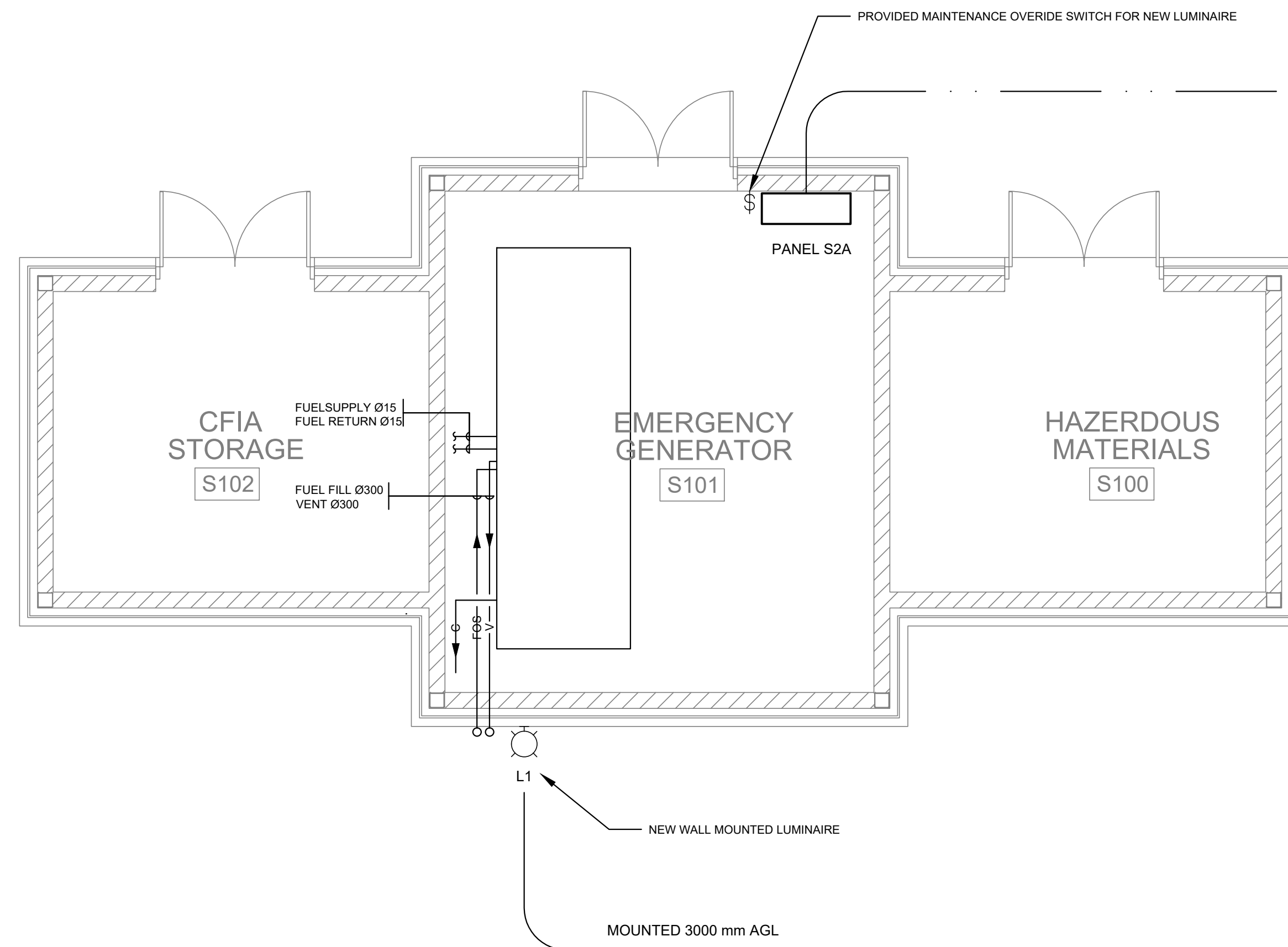
Drawing title/Titre du dessin
COVER PAGE

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NOTES:

1. ADD 15A BREAKER TO PANEL S2A.
2. CONDUIT AND WIRING (#12AWG RW90 CU) TO NEW EXTERNAL FIXTURE L1.
3. ALL CONDUIT TO BE SURFACE MOUNTED AND INSIDE THE PLATROOM S101.ALL WIRING SHALL BE RUN EMT CONDUIT.



1 PLAN VIEW SHOWING NEW LIGHTING FIXTURE L1

2 EXISTING PANEL S2A

3 LIGHT FIXTURE L1 LOCATION

LUMINAIRE SCHEDULE	
L1	OUTDOOR WALL MOUNTED LUMINAIRE COMPLETE WITH PHOTOCELL AND MOTION SENSORS
STANDARD OF ACCEPTANCE: LITE PACK LNC2 - 18L - 3K - 070 - 4 - 1 - BL - SCP + PCU	
METAL HOUSING IN BLACK WITH NO UPLIGHT, LOW GLARE LENS, IP65 RATED LED OUTDOOR WALL MOUNTED LUMINAIRE COMPLETE WITH PHOTOCELL AND MOTION SENSORS. COLOR TEMPERATURE 3000K AND CRI OF 70 OR BETTER WITH INPUT VOLTAGE RATED AT 120V.	

LIGHTING CONTROL OPERATION

EXTERIOR LUMINAIRE SHALL TURN ON WITH PHOTO-CELL AND MOTION DETECTOR, AND SHALL TURN OFF WHEN NO MOTION IS DETECTED. MAINTENANCE OVERRIDE SWITCH SHALL BE PROVIDED FOR MAX 2 HR OVERRIDE.

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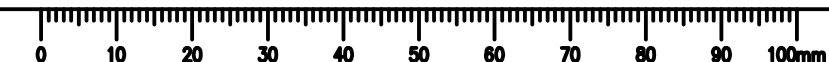
Client/client
CBSA CANADA BORDER SERVICE AGENCY

Project title/Titre du projet
**BORDER CROSSING FACILITY
CBSA FUEL STORAGE TANKS REPLACEMENT**

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Drawing title/Titre du dessin
KINGSGATE BORDER CROSSING

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
R.107701.02	E200	01





- NOTES:
1. ELECTRICALLY ISOLATE ENGINE AND ALTERNATOR BEFORE COMMENCEMENT OF FUEL TANK AND PIPING REPLACEMENT. FUEL TANK AND FUEL PIPE REPLACEMENT BY MECHANICAL CONTRACTOR.
 2. DISCONNECT LOW FUEL ALARM FROM EXISTING TANK AND CONNECT TO NEW TANK.
 3. UPON COMPLETION OF FUEL TANK REPLACEMENT AND NEW FUEL PIPING, START UP GENERATOR AS PER MANUFACTURERS INSTRUCTIONS.
 4. ALLOW FOR FULL LOAD TESTING FOR 3 HOURS, AS PER CSA TESTING STANDARDS.
 5. RESISTIVE LOAD BANKS AND FUEL REQUIRED FOR TESTING SHALL BE ALLOWED FOR UNDER THIS CONTRACT.
 6. RECORD KEY ENGINE PARAMETERS DURING TESTING AND INCLUDE A COPY IN THE HAND OVER DOCUMENTATION.



2 PICTURE OF EXISTING CONTROL PANEL
E400

1 FLOOR PLAN OF EXISTING GENERATOR ROOM
E400

3 PICTURE OF EXISTING GENERATOR
E400

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**CBSA
CANADA BORDER
SERVICE AGENCY**

Project title/Titre du projet
**BORDER CROSSING FACILITY
CBSA FUEL STORAGE TANKS
REPLACEMENT**

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Drawing title/Titre du dessin
**HUNTINGDON BORDER
CROSSING**

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
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