



**Public Works and  
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Canada**

**Travaux publics et  
Services gouvernementaux  
Canada**

**REAL PROPERTY SERVICES**

Western Region

**SERVICES IMMOBILIERS**

Région de l'ouest

**GIANT MINE  
REMEDIATION PROJECT  
EFFLUENT TREATMENT PLANT  
REACTOR TANKS**

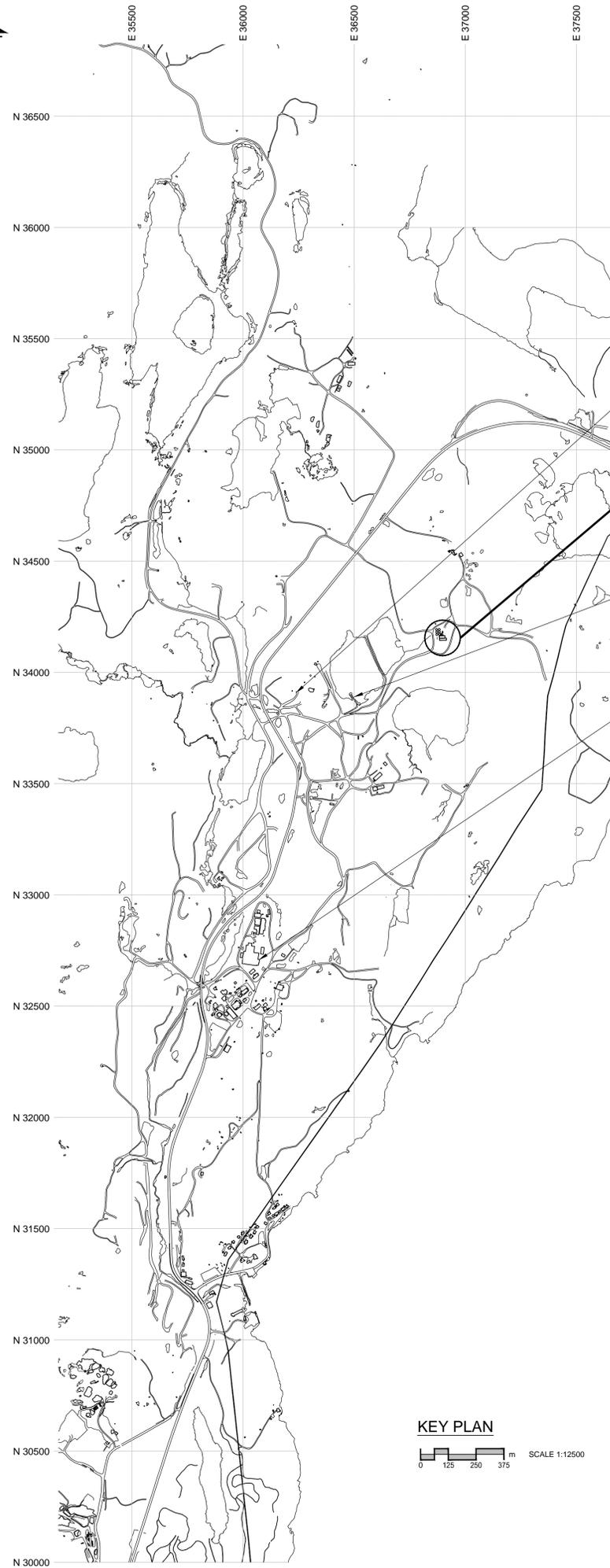


**ISSUED FOR  
TENDER**

**PROJECT No. R.014204.336**



**12 December 2014**



LIST OF DRAWINGS

DWG NUMBER	TITLE OF DRAWING
R-014204.336_G00	COVER SHEET
R-014204.336_G01	KEY PLAN AND LIST OF DRAWINGS
R-014204.336_H01	DEMOLITION PLAN
R-014204.336_H02	PLAN AT PLATFORM
R-014204.336_H03	PLAN BELOW PLATFORM
R-014204.336_H04	TANK 1A DETAILS
R-014204.336_H05	TANK 2A DETAILS
R-014204.336_H06	TANK 3A DETAILS
R-014204.336_H07	DETAILS
R-014204.336_E01	ELECTRICAL PLAN AT PLATFORM

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**PUBLIC WORKS**  
**GOVERNMENT SERVICES**  
**CANADA**

Project title/Titre du projet

**GIANT MINE**  
**REMEDIATION PROJECT**  
**EFFLUENT TREATMENT PLANT**  
**REACTOR TANKS**

Approved by/Approve par  
**B.B.**

Designed by/Concept par  
**L.R.**

Drawn by/Dessine par  
**E.F.**

PWSSC Project Manager/Administrateur de Projets TPSGC  
**J.M.**

PWSSC, Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'ingénierie, TPSGC

Client/client

**PWGSC**

Drawing title/Titre du dessin

**KEY PLAN**  
**and**  
**LIST OF DRAWINGS**

Project No./ No. du projet	Sheet/Feuille	Revision no./ La Révision no.
<b>R.014204.336</b>	<b>G01</b> OF G01	<b>B</b>



NOTES:  
 1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.  
 2. SALVAGE EXISTING LIGHT FIXTURES RETURN TO OWNER.

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 CANADA**

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**DEMOLITION PLAN**

Project No./ No. du projet	Sheet/Feuille	Revision no./ La Révision no.
<b>R.014204.336</b>	<b>H01 OF H07</b>	<b>B</b>



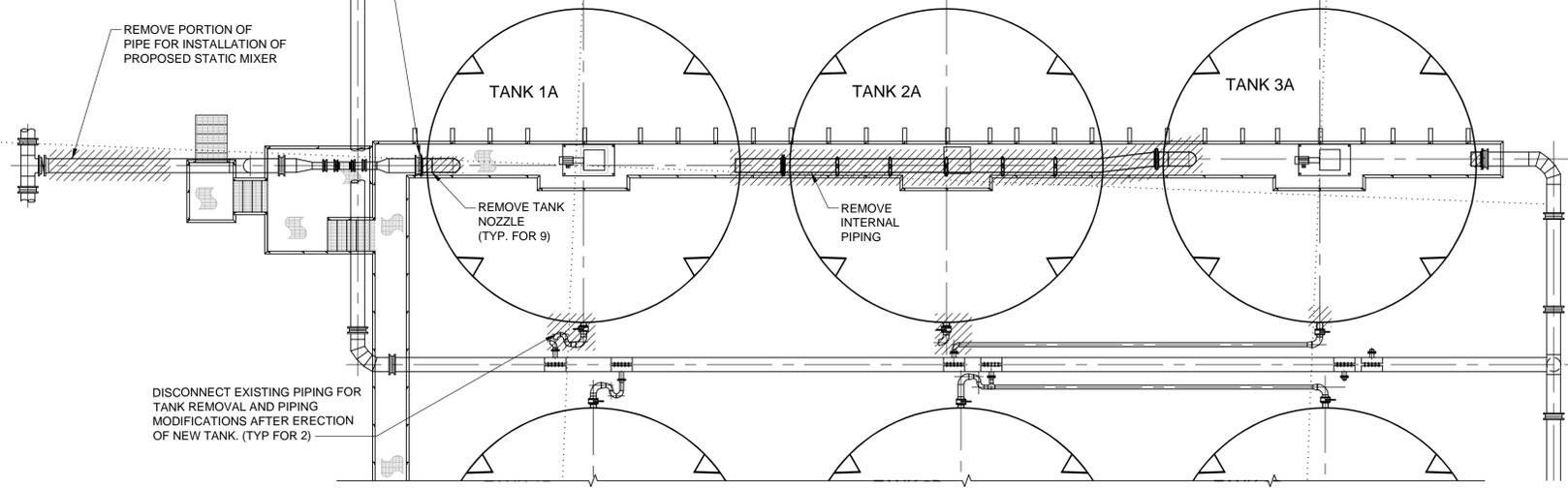
UNBOLT EXISTING PIPING AND REMOVE AS REQUIRED FOR TANK REMOVAL. (TO BE REBOLTED AFTER ERECTION OF NEW TANK)

REMOVE PORTION OF PIPE FOR INSTALLATION OF PROPOSED STATIC MIXER

N 34170

N 34192

E 36872



**PIPING DEMOLITION DETAIL**

0 1000 2000 3000 mm SCALE 1:100



CUT STRUCTURAL FRAMING AS REQUIRED AND REMOVE TANK WALKWAY FROM UPPER LEVEL CATWALK

EXISTING STRUCTURAL TO REMAIN.

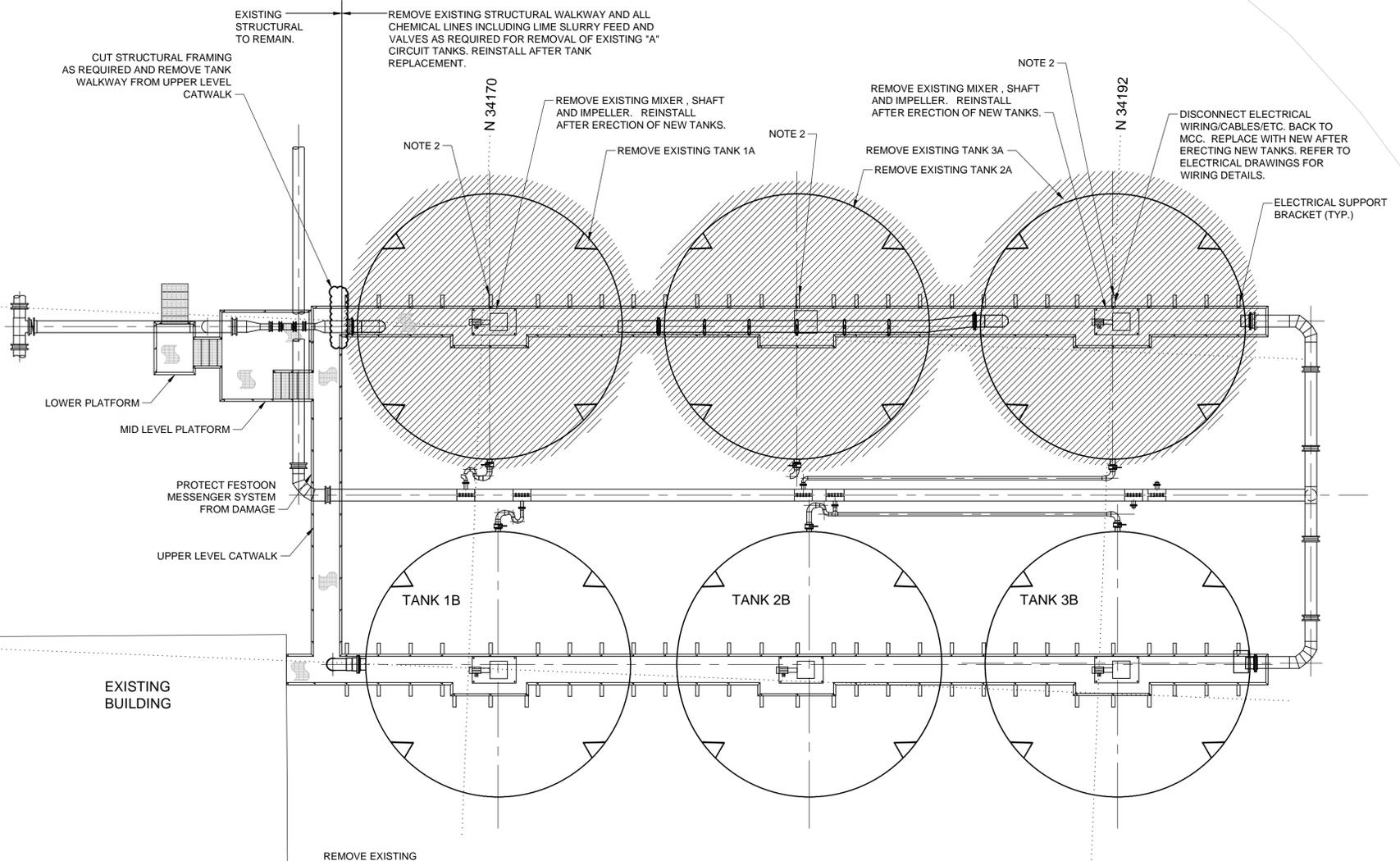
REMOVE EXISTING STRUCTURAL WALKWAY AND ALL CHEMICAL LINES INCLUDING LIME SLURRY FEED AND VALVES AS REQUIRED FOR REMOVAL OF EXISTING "A" CIRCUIT TANKS. REINSTALL AFTER TANK REPLACEMENT.

REMOVE EXISTING MIXER, SHAFT AND IMPELLER. REINSTALL AFTER ERECTION OF NEW TANKS.

REMOVE EXISTING MIXER, SHAFT AND IMPELLER. REINSTALL AFTER ERECTION OF NEW TANKS.

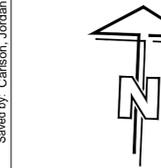
DISCONNECT ELECTRICAL WIRING/CABLES/ETC. BACK TO MCC. REPLACE WITH NEW AFTER ERECTING NEW TANKS. REFER TO ELECTRICAL DRAWINGS FOR WIRING DETAILS.

EXISTING ROADWAY



**DEMOLITION PLAN**

0 1000 2000 3000 mm SCALE 1:100



NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
2. WELD STRUCTURAL PLATFORM TO TANK AS PER DETAILS SHOWN.
3. SEE DRAWING H03 FOR TANK ERECTION DETAILS.
4. SEE DRAWINGS H04-H06 FOR TANK NOZZLE DETAILS.
5. ONCE EXISTING WALKWAY IS SET IN PLACE AND CONNECTED TOGETHER, FILLET WELD WALKWAY TO REACTOR TANKS.
6. PRIOR TO REINSTALLATION OF WALKWAY SYSTEM, WALKING SHALL BE RE-COATED. COATING SHALL BE DEVCOE DEVGUARD 4160, MINIMUM DFT SHALL BE 50 MICRON. HANDRAILS AND GRATING TO BE YELLOW, REMAINDER TO BE WHITE. SURFACE PREPARATION SHALL BE COMMERCIAL BLAST TO SSPC-SP6.

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L.R.

Drawn by/Dessiné par

E.F.

PWGSC Project Manager/Administrateur de Projets TPSC

J.M.

PWGSC Architectural and Engineering Resources Manager/Ressources Architectural et de Directeur d'ingénierie, TPSC

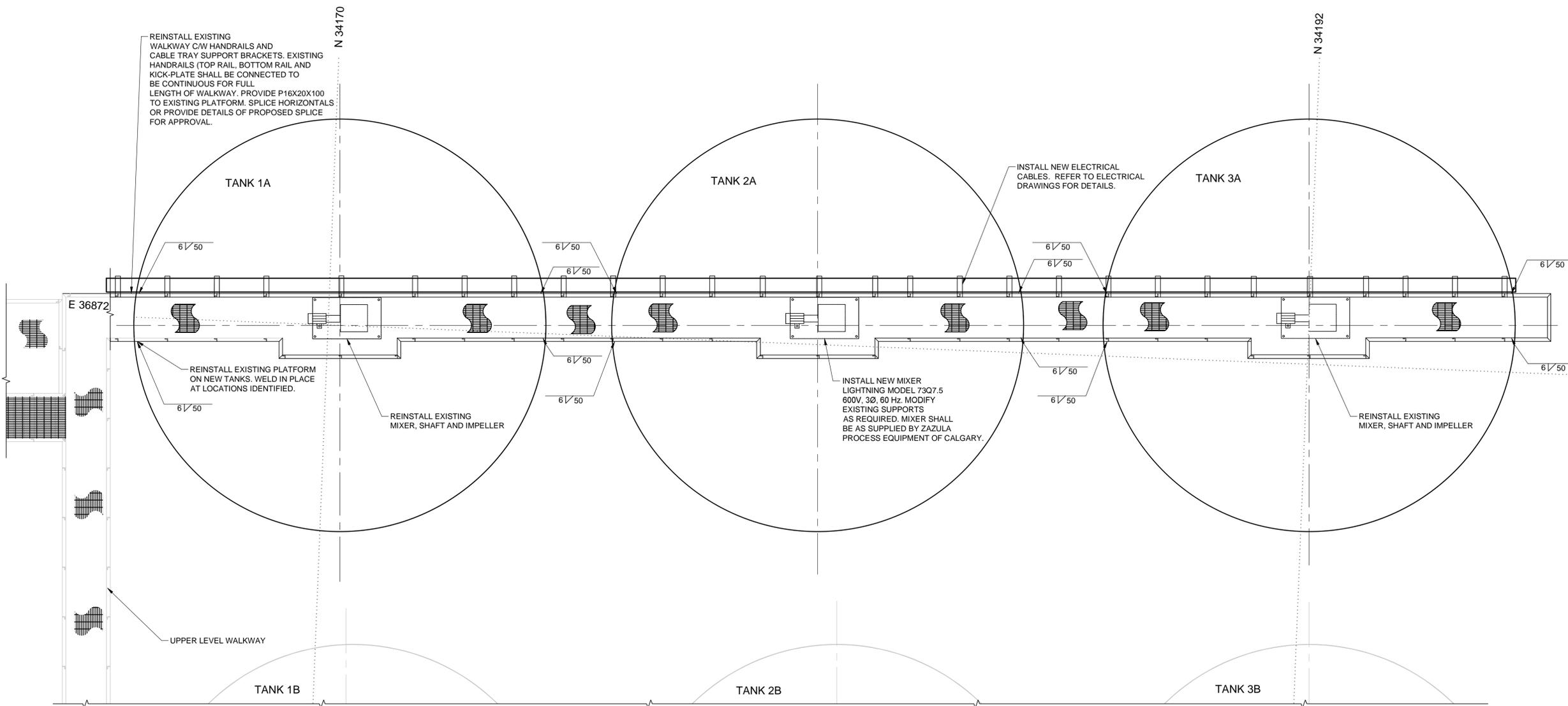
Client/Client

PWGSC

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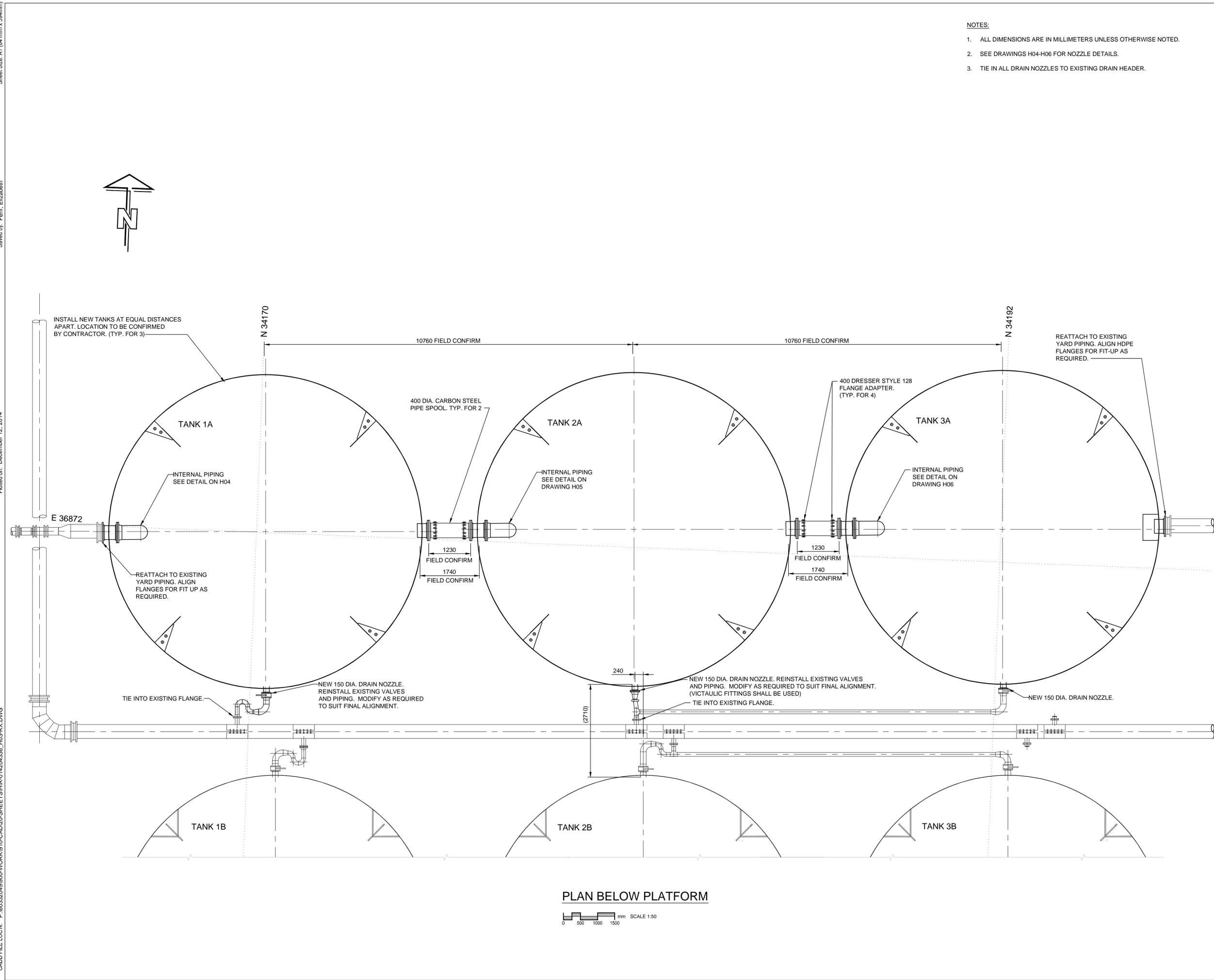
PLAN AT PLATFORM

Project No./ No. du projet	Sheet/Feuille	Revision no./ La Revision no.
<b>R.014204.336</b>	<b>H02 OF H07</b>	<b>B</b>



PLAN AT PLATFORM





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1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
2. SEE DRAWINGS H04-H06 FOR NOZZLE DETAILS.
3. TIE IN ALL DRAIN NOZZLES TO EXISTING DRAIN HEADER.

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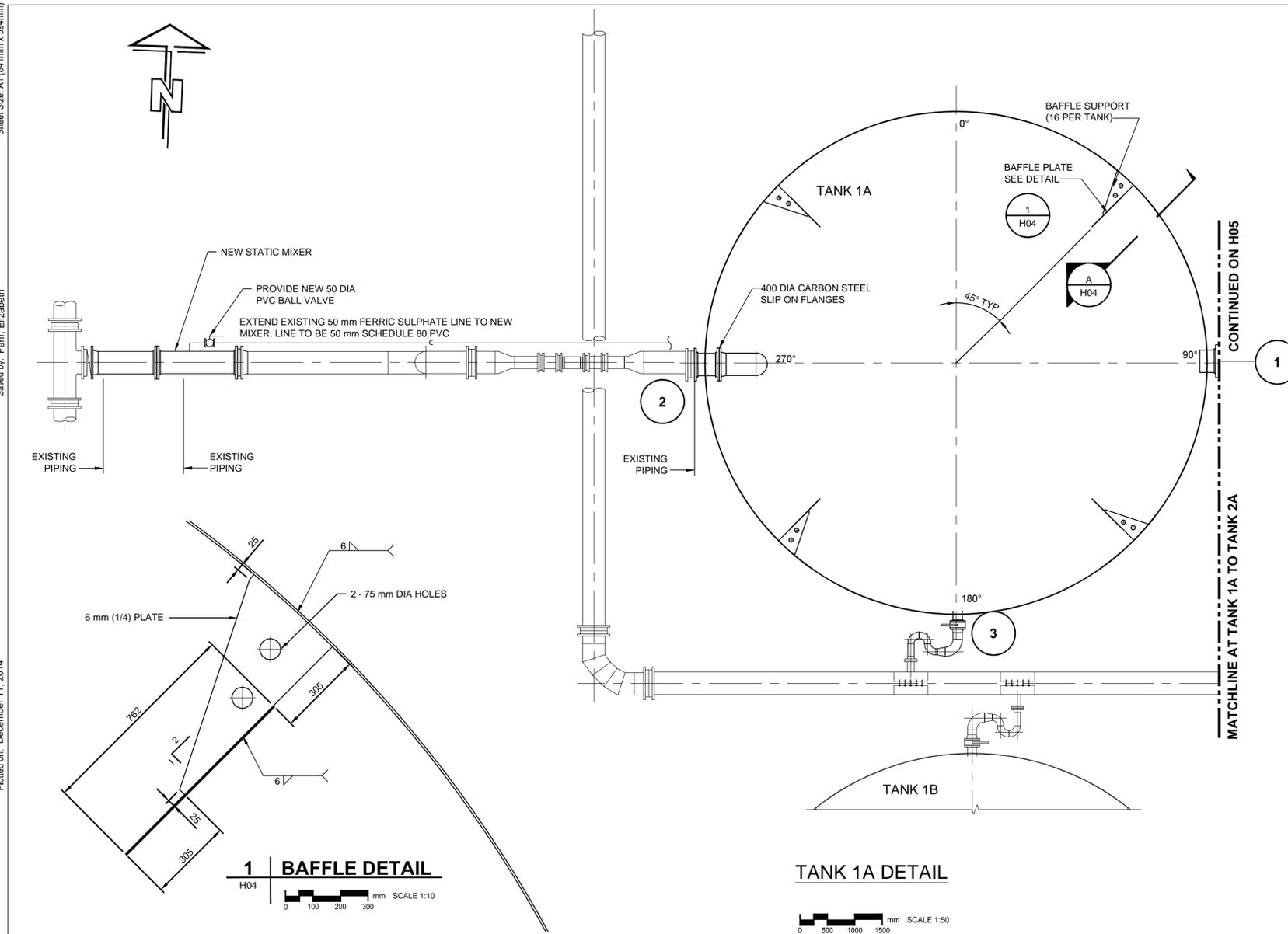
GIANT MINE  
REMEDATION PROJECT  
EFFLUENT TREATMENT PLANT  
REACTOR TANKS

Approved by/Approuvé par: B.B.  
Designed by/Conçu par: L.R.  
Drawn by/Dessiné par: E.F.  
PWGSC Project Manager/Administrateur de Projets TPSCG: J.M.  
PWGSC Architectural and Engineering Resources Manager/ Ressources Architecturales et de Directeur d'Ingénierie, TPSCG: [Name]

PLAN BELOW PLATFORM

Project No./ No. du projet: R.014204.336	Sheet/Feuille: H03 of H07	Revision no./ La Révision no.: B
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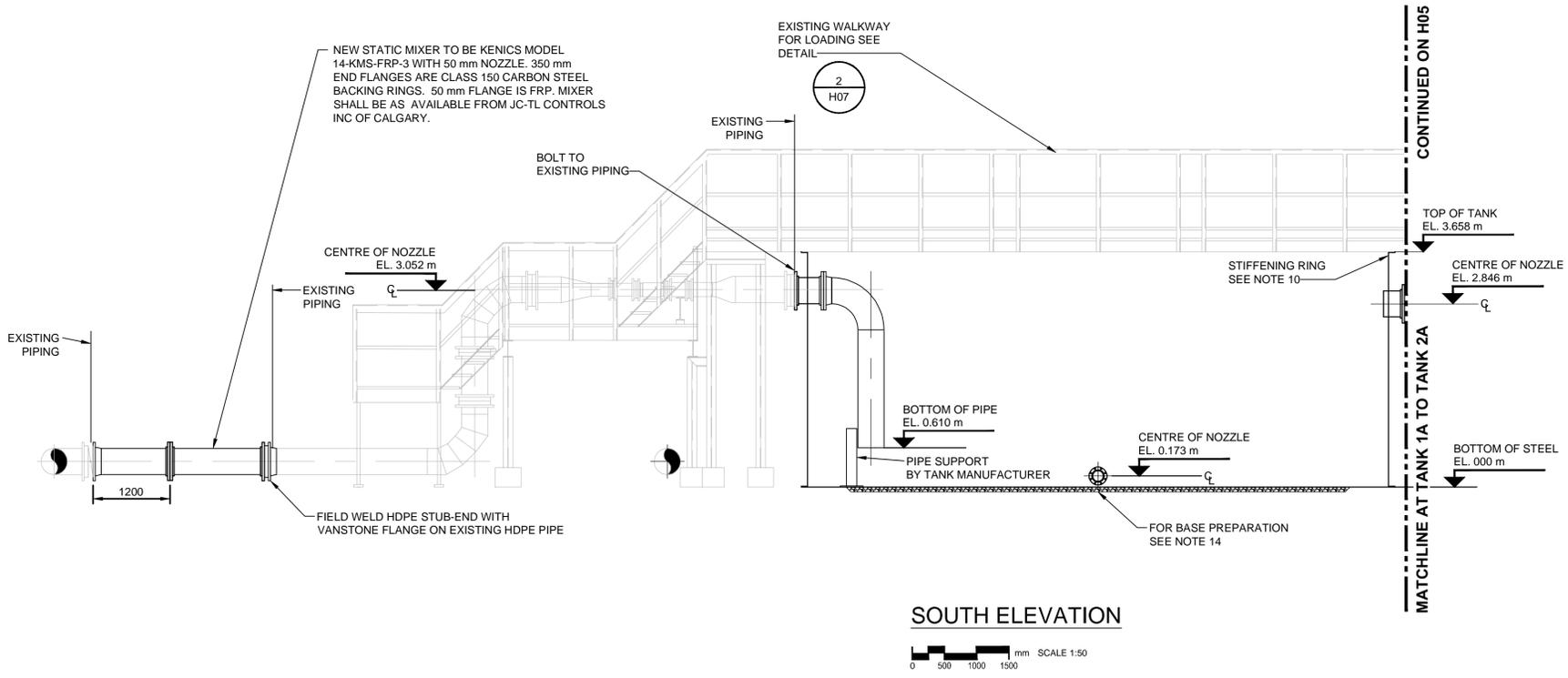
TANK 1A DETAIL

SCALE 1:50

TANK NOZZLE TABLE					
NO.	SIZE	ELEVATION	PROJECTION	DESCRIPTION	ANGLE
1	400	2846	250	OUTLET (SINGLE FLANGE)	90°
2	400	3052	250	INLET (DOUBLE FLANGE)	270°
3	150	173	200	DRAIN (SINGLE FLANGE)	180°

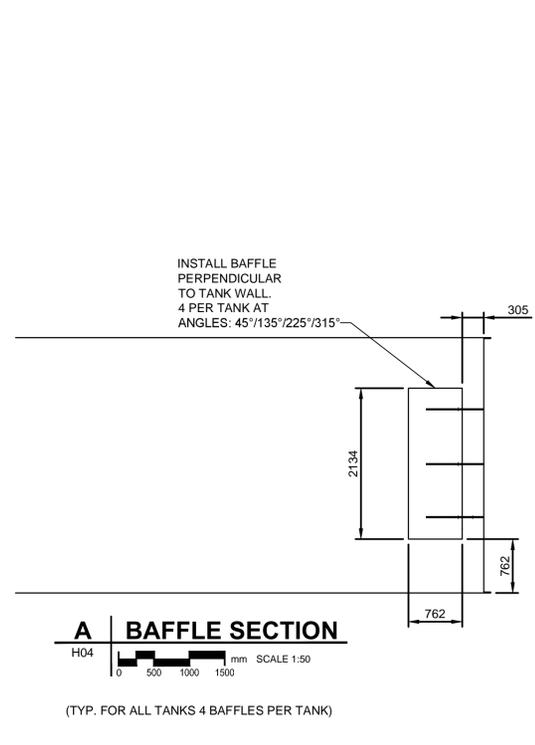
GENERAL NOTES (TYP FOR 3)

- SUPPLY AND INSTALL THREE (3) IDENTICAL ABOVEGROUND VERTICAL WELDED STEEL STORAGE TANKS AS INDICATED AND SPECIFIED. TANKS 1A, 2A, 3A.
- STORAGE TANK SHALL BE 9,144 mm ID X 3,658 mm HIGH AND DESIGNED IN ACCORDANCE WITH API 650.
- TANKS TO BE CONSTRUCTED FROM ASTM A36 PLATES OR APPROVED ALTERNATE.
- DESIGN LOADS
  - WIND LOAD: 0.47 kPa
  - SG OF TANK CONTENTS: 1.02
  - CONTENTS: WATER (FeSO4)
  - CONTENTS pH: 9.8
  - CONTENTS TEMPERATURE: 5°C to 30°C
  - EXTERNAL VERTICAL LOADS: 100 kN, (SEE DETAIL 2 ON H07)
- TANK CORROSION ALLOWANCE: 1.58 mm.
- DESIGN AND CONSTRUCT NOZZLES AND FLANGES PER ASME B16.5/API 650, SECTION 3.
- PIPE SHALL BE STEEL, STD. WALL, ASTM A53 GR. B.
- STEEL FITTINGS SHALL BE ASTM 284, BUTT WELDED. ELBOWS TO BE LONG RADIUS.
- TANK NOZZLES TO BE SINGLE FLANGE AND DOUBLE FLANGE AS INDICATED, PROVIDE REINFORCING PLATES.
- PROVIDE AN EXTERNAL STIFFENING RING IN THE FORM OF A STRUCTURAL ANGLE, OF THE SAME MATERIAL AS TANK, MINIMUM SIZE 68 MM X 68 MM X 6 MM THICK, CONTINUOUSLY WELDED TO THE TANK SHELL.
- ADDITIONAL STIFFENING RINGS, IF USED, SHALL BE ON THE OUTSIDE OF THE TANK SHELL.
- TANK 3A SHALL BE FITTED WITH AN OUTLET WEIR BOX TO THE DIMENSIONS AS SHOWN. SEE DRAWING H06 FOR DETAILS.
- EACH TANK TO BE FITTED WITH FOUR (4) ANTI-ROTATION BAFFLES. DETAILS ARE AS REQUIRED BY MIXER MANUFACTURER.
- TANK TO BE SUPPORTED AS PER API 650 FIGURE B-2, FOUNDATION WITH CRUSHED STONE RINGWALL. RINGWALL SHALL BE FROM NATIVE MATERIAL. NATIVE MATERIAL SHALL BE FORMED TO ALLOW A MINIMUM 75 mm THICK CLEAN COMPACTED SAND UNDER THE ENTIRE TANK BOTTOM. SAND TO EXTEND TO WITHIN 600 mm OF THE TANK SHELL.
- FIELD TESTING: FILL EACH TANK WITH WATER (SUPPLIED BY OWNER) AND ALLOW TANK TO SIT FOR 48 HOURS. CHECK FOR LEAKS AND CORRECT OR REPAIR ANY LEAKING AREAS.
- EXTERIOR COATING SHALL BE DEVCOE DEVGUARD 4160, 50 MICRON DFT OR APPROVED ALTERNATE. SURFACE PREPARATION SHALL BE COMMERCIAL BLAST TO SSPC-SP6. COATING TO BE WHITE.
- TANK REQUIRES NO INTERNAL COATING.
- PROJECTION IS FROM OUTER SHELL TO FLANGE FACE.
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
- ALL ELEVATIONS ARE IN METERS AND ARE GEODETIC.
- TOP ELEVATION OF NEW ERECTED TANKS SHALL BE SAME AS DEMOLISHED TANKS. (CONTRACTOR TO VERIFY DIMENSIONS PRIOR TO DEMOLITION)
- NOZZLES OF NEW TANKS SHALL MATCH EXISTING. INLET AND OUTLET NOZZLES TO MATCH ELEVATIONS OF EXISTING PIPING. (CONTRACTOR SHALL VERIFY EXISTING DIMENSIONS PRIOR TO DEMOLITION)



SOUTH ELEVATION

SCALE 1:50



A BAFFLE SECTION

SCALE 1:50

(TYP. FOR ALL TANKS 4 BAFFLES PER TANK)

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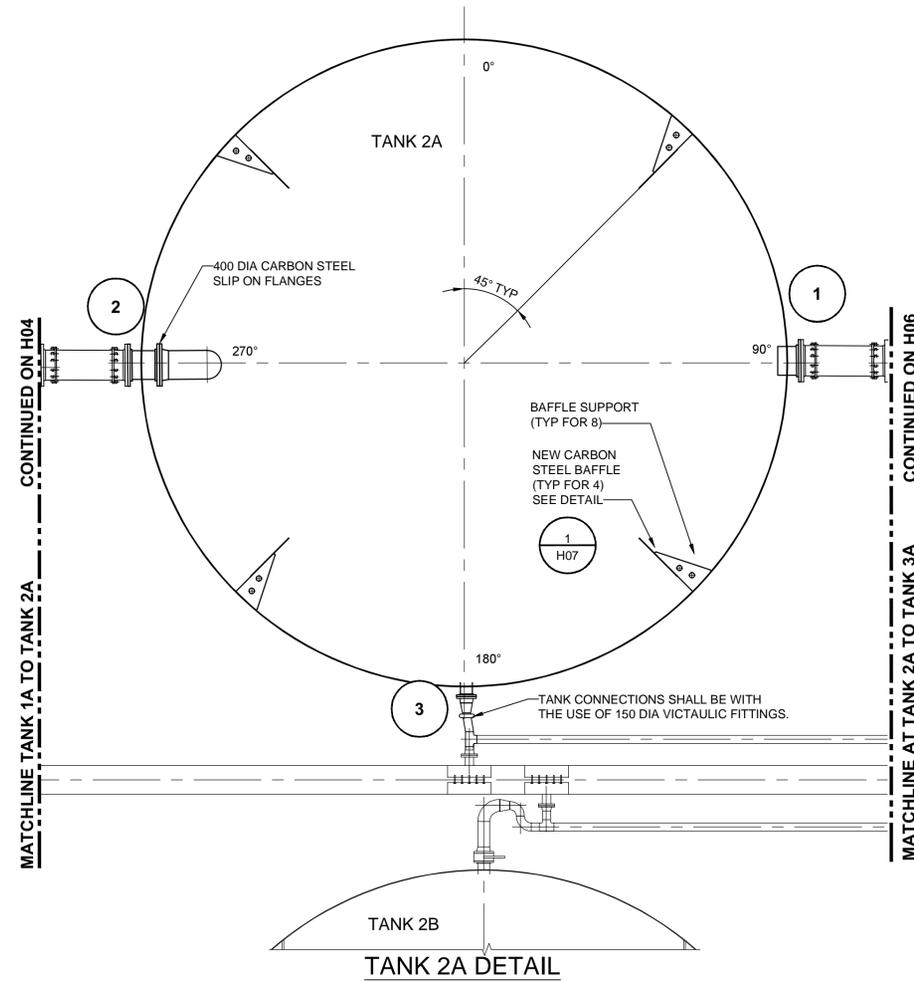
Project Title/Titre du projet  
**GIANT MINE  
REMEDATION PROJECT  
EFFLUENT TREATMENT PLANT  
REACTOR TANKS**

Approval by/Approve par: B.B.  
Designed by/Concept par: L.R.  
Drawn by/Dessine par: E.F.  
PWGSC Project Manager/Administrateur de Projets TPSSC: J.M.  
PWGSC Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'ingénierie, TPSSC: J.M.

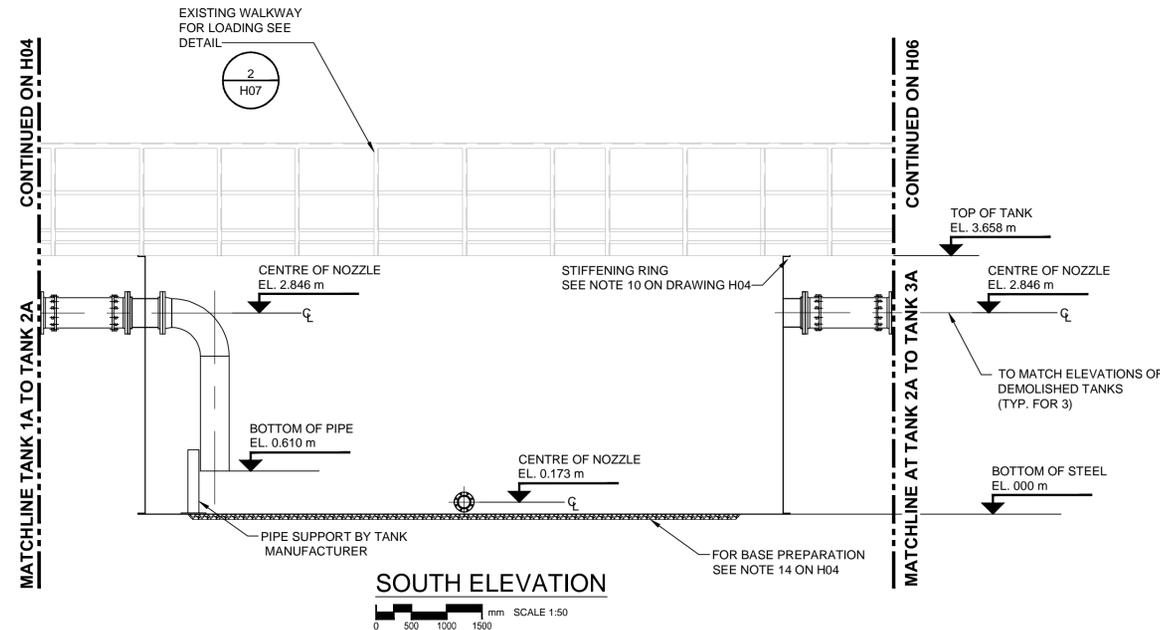
Client/Client: PWGSC  
Drawing title/Titre du dessin: TANK 1A DETAIL

TANK 1A DETAIL

Project No./ No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R.014204.336	H04 of H07	B



0 500 1000 1500 mm SCALE 1:50



0 500 1000 1500 mm SCALE 1:50

TANK NOZZLE TABLE					
NO.	SIZE	ELEVATION	PROJECTION	DESCRIPTION	ANGLE
1	400	*2846	250	OUTLET (SINGLE FLANGE)	90°
2	400	*2846	250	INLET (DOUBLE FLANGE)	270°
3	150	*173	200	DRAIN (SINGLE FLANGE)	180°

\*CONTRACTOR TO VERIFY DIMENSIONS (EQUAL TO EXISTING TANKS)

NOTES

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2. ALL ELEVATIONS ARE IN METRES AND ARE GEODETIC.
3. SEE DRAWING H04 NOTES FOR DESIGN DETAILS.

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**TANK 2A DETAIL**

Project No./  
No. du projet

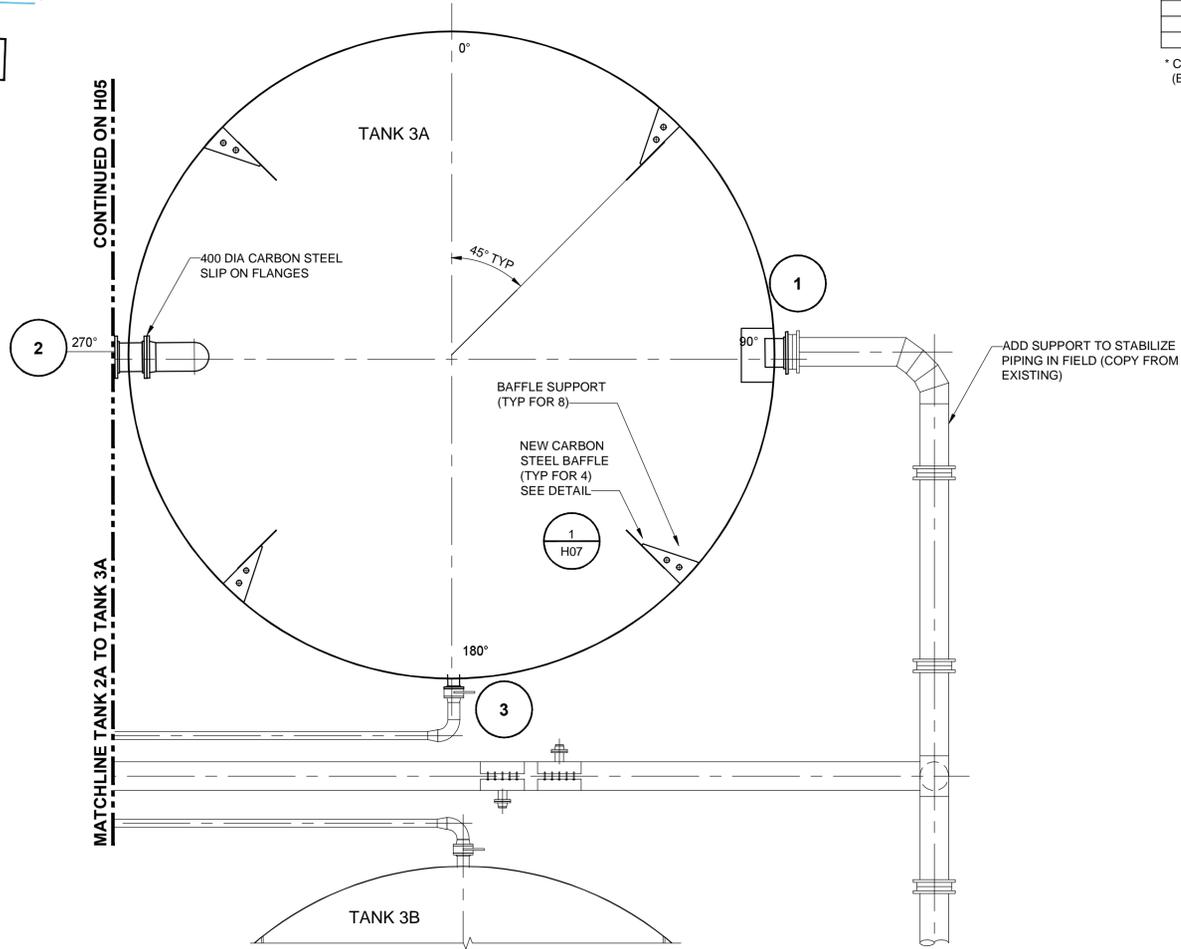
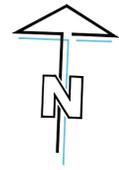
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La Révision no.

**H05**

of **H07**

**B**



NO.
1
2
3

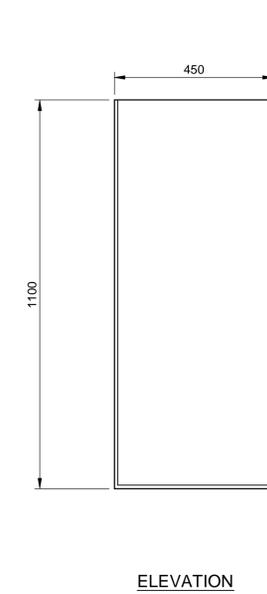
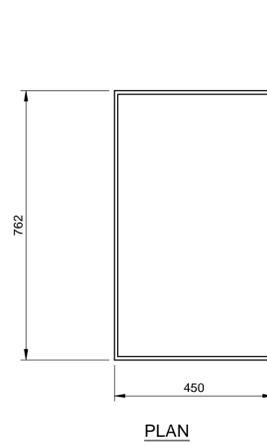
\* CONTR (EQUAL)

TANK NOZZLE TABLE					
NO.	SIZE	ELEVATION	PROJECTION	DESCRIPTION	ANGLE
1	400	*2862	250	OUTLET (SINGLE FLANGE)	90°
2	400	*2849	250	INLET (DOUBLE FLANGE)	270°
3	150	*173	200	DRAIN (SINGLE FLANGE)	180°

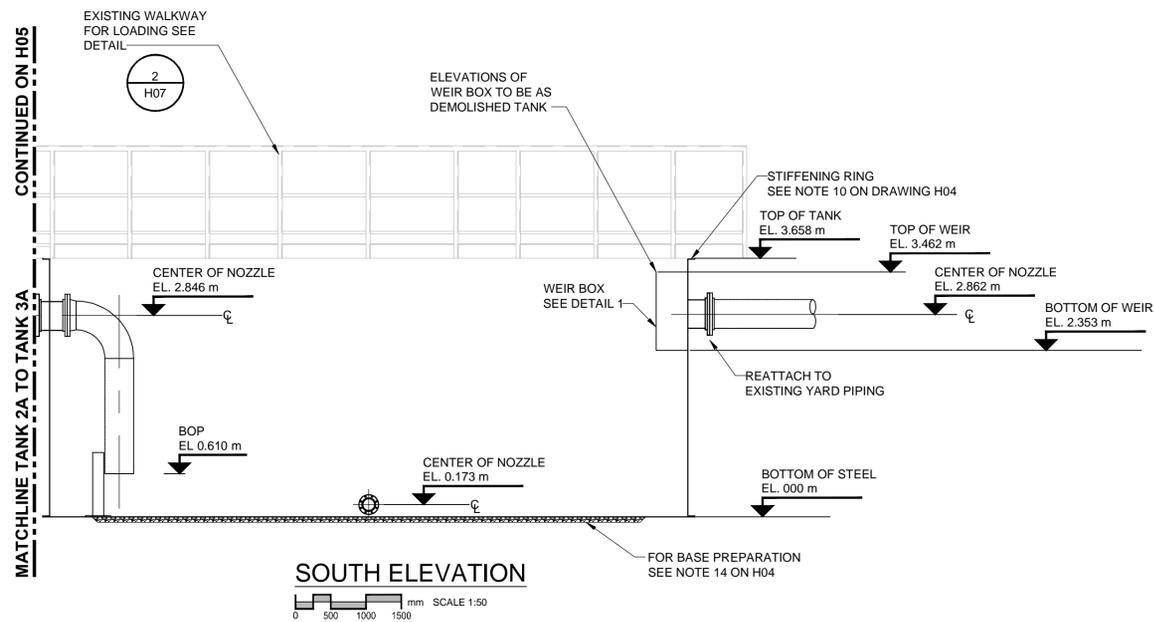
\* CONTRACTOR TO VERIFY DIMENSIONS (EQUAL TO EXISTING TANKS)

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3. SEE NOTES ON H04 FOR TANK DESIGN DETAILS.



**TANK 3A DETAIL**  
SCALE 1:50



**SOUTH ELEVATION**  
SCALE 1:50

**1 WEIR BOX DETAIL**  
SCALE 1:10

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**TANK 3A DETAIL**

Project No./  
No. du projet

R.014204.336

Sheet No./  
La Rev. no.

H06

of H07

Revision no./  
La Révision no.

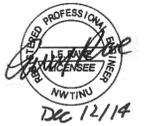
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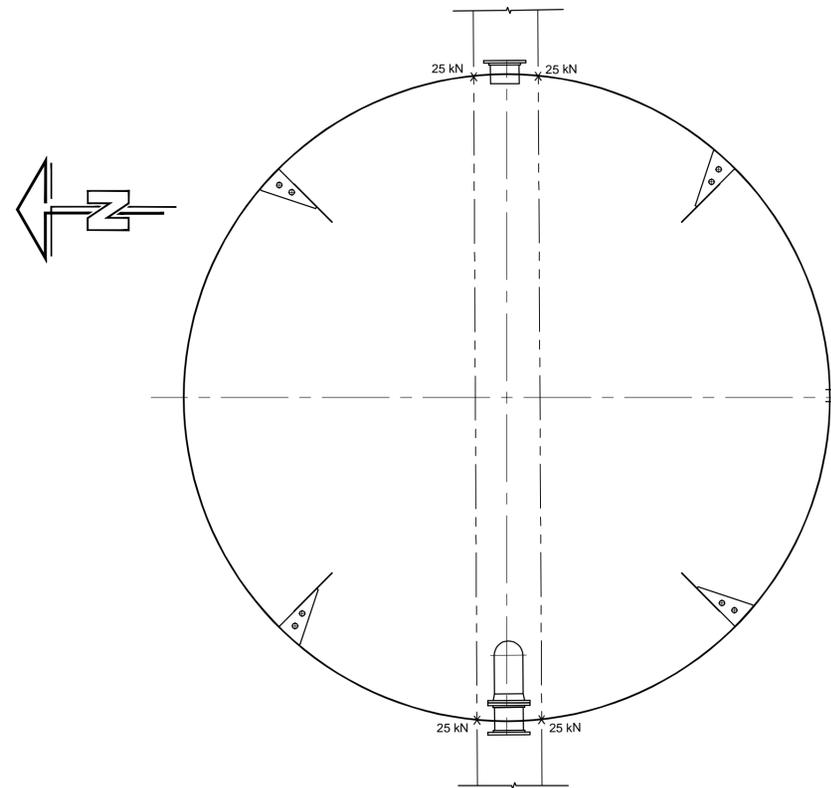
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Client/Client  
**PWGSC**

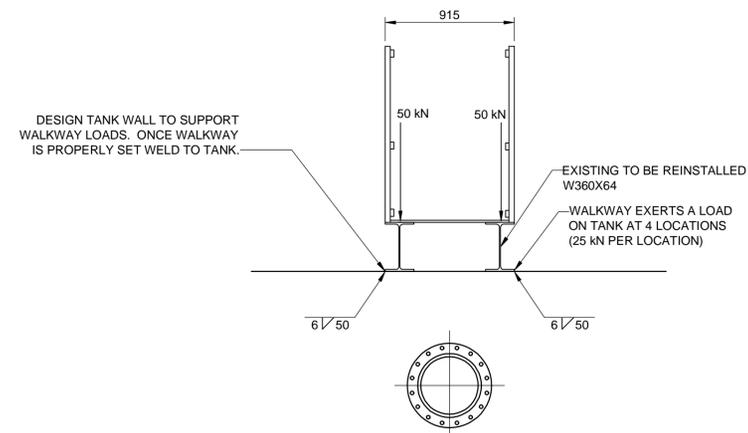
Drawing title/Titre du dessin

**DETAILS**

Project No./ No. du projet	Sheet No./ La Feuille	Revision no./ La Révision no.
<b>R.014204.336</b>	<b>H07 OF H07</b>	<b>B</b>



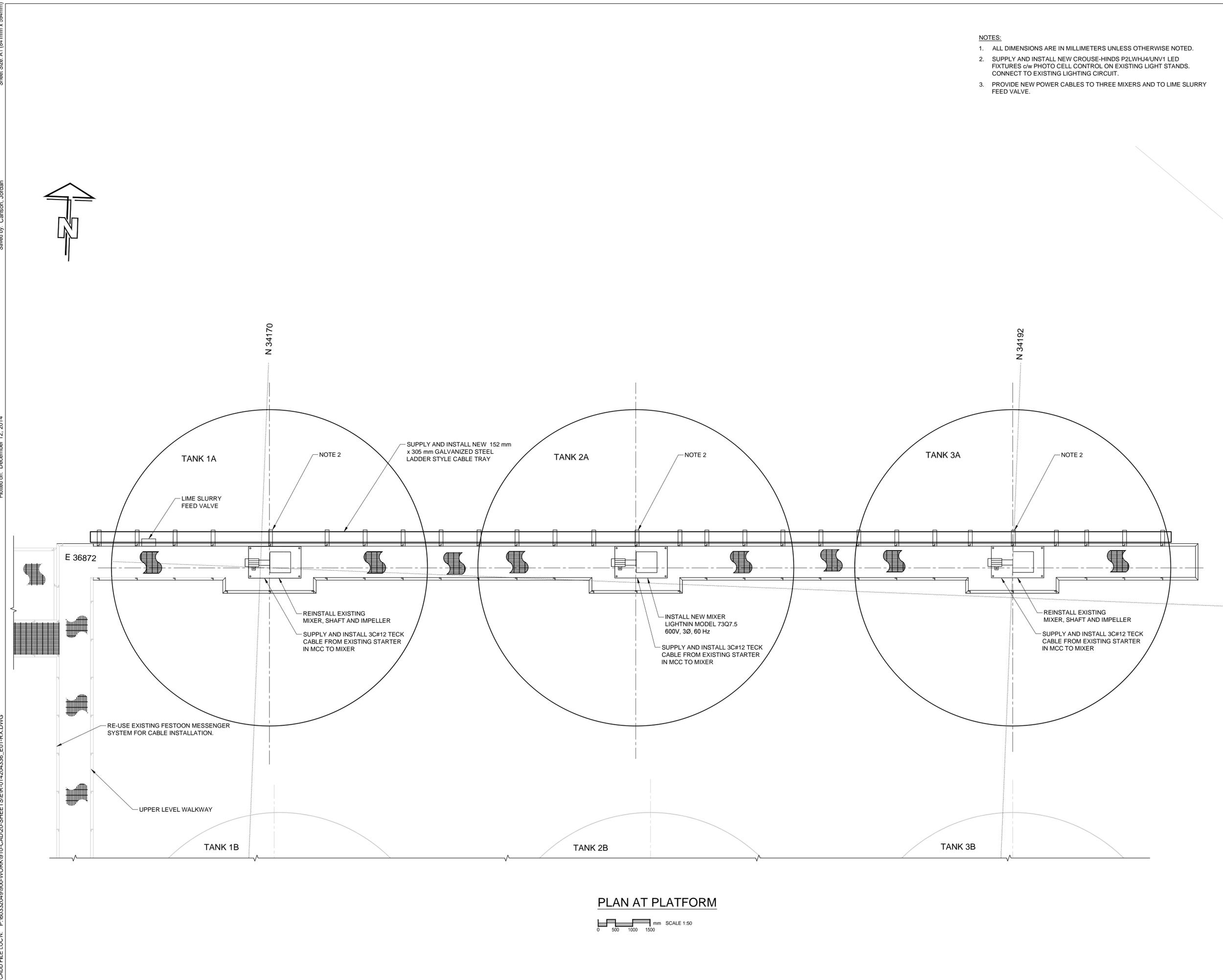
**2 | WALKWAY STRUCTURAL LOADING PLAN**



**ELEVATION**

**3 | WALKWAY STRUCTURAL LOADING DETAIL**





**NOTES:**

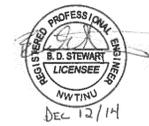
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
2. SUPPLY AND INSTALL NEW CROUSE-HINDS P2LWHJ4/UNV1 LED FIXTURES c/w PHOTO CELL CONTROL ON EXISTING LIGHT STANDS. CONNECT TO EXISTING LIGHTING CIRCUIT.
3. PROVIDE NEW POWER CABLES TO THREE MIXERS AND TO LIME SLURRY FEED VALVE.

**PRELIMINARY  
 NOT FOR CONSTRUCTION**

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 AECOM Canada Ltd.  
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 Date: Dec 14/2014  
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 NWT/NU Association of Professional Engineers and Geoscientists



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Revision/	Description/	Date/
Revision	Description	Date
C		
B	ISSUED FOR TENDER	14/12/12
A	ISSUED FOR 90% DESIGN REVIEW	14/11/18

Client/Client

**PUBLIC WORKS  
 GOVERNMENT SERVICES  
 CANADA**

Project title/Titre du projet

**GIANT MINE  
 REMEDIATION PROJECT  
 EFFLUENT TREATMENT PLANT  
 REACTOR TANKS**

Approved by/Approuvé par

**B.B.**

Designed by/Concept par

**L.R.**

Drawn by/Dessiné par

**E.F.**

PWSSC Project Manager/Administrateur de Projets TPSSC

**J.M.**

PWSSC Architectural and Engineering Resources Manager/  
 Ressources Architecturales et de Directeur d'ingénierie, TPSSC

Client/Client

**PWSSC**

Drawing title/Titre du dessin

**ELECTRICAL  
 PLAN AT PLATFORM**

Project No./ No. du projet	Sheet/Feuille	Revision no./ La Revision no.
<b>R.014204.336</b>	<b>E01 OF E01</b>	<b>B</b>