

This addendum varies the Contract Documents and will form part of the Contract Documents and is to be read, interpreted and coordinated with all other parts, including General and Supplementary General Conditions of the Contract and all Sections in Division 1. The cost of all work contained herein is to be included in the Contract Sum. The following revisions supersede the information contained in the original drawings and specifications issued for the above named project to the extent referenced and shall become a part thereof.

1 GENERAL

- .1 This addendum is issued prior to receipt of Bids to provide for certain revisions to and clarification to the Contract Documents.
- .2 The work required by this Addendum shall be executed in accordance with the requirements of the Contract and Contract Documents.
- .3 Include in the Stipulated Price, the cost of all work described in this Addendum.

2 ARCHITECTURAL ADDENDUM

- .1 Refer to enclosed for Architectural Addendum No. 1 (10 Pages)

3 MECHANICAL ADDENDUM

- .1 Refer to enclosed for Mechanical Addendum No. 1 (5 Pages)

4 ELECTRICAL ADDENDUM

- .1 Refer to enclosed for Electrical Addendum No. 1 (7 Pages)

End of Addendum

**The following changes/clarifications in the tender documents are effective immediately.
This addendum will form part of the contract documents.**

Special Instructions to Bidders

1.0 DRAWINGS

- 1.1 Replace the following drawings:
 - A-812 Chemical Storage Building Site Plan
 - A-818 Chemical Storage Building Section Details
- 1.2 Refer to the following drawings for clarifications and changes:
 - AD-01 Cover Sheet
 - AD-02 Chemical Storage Building Plans
 - AD-03 Chemical Storage Building Elevations
 - AD-04 Chemical Storage Building Sections & Millwork Details
 - AD-05 Chemical Storage Building Plan Details & Section Details
 - AD-06 Chemical Storage Building Section Details
 - AD-07 Chemical Storage Building Site Sections

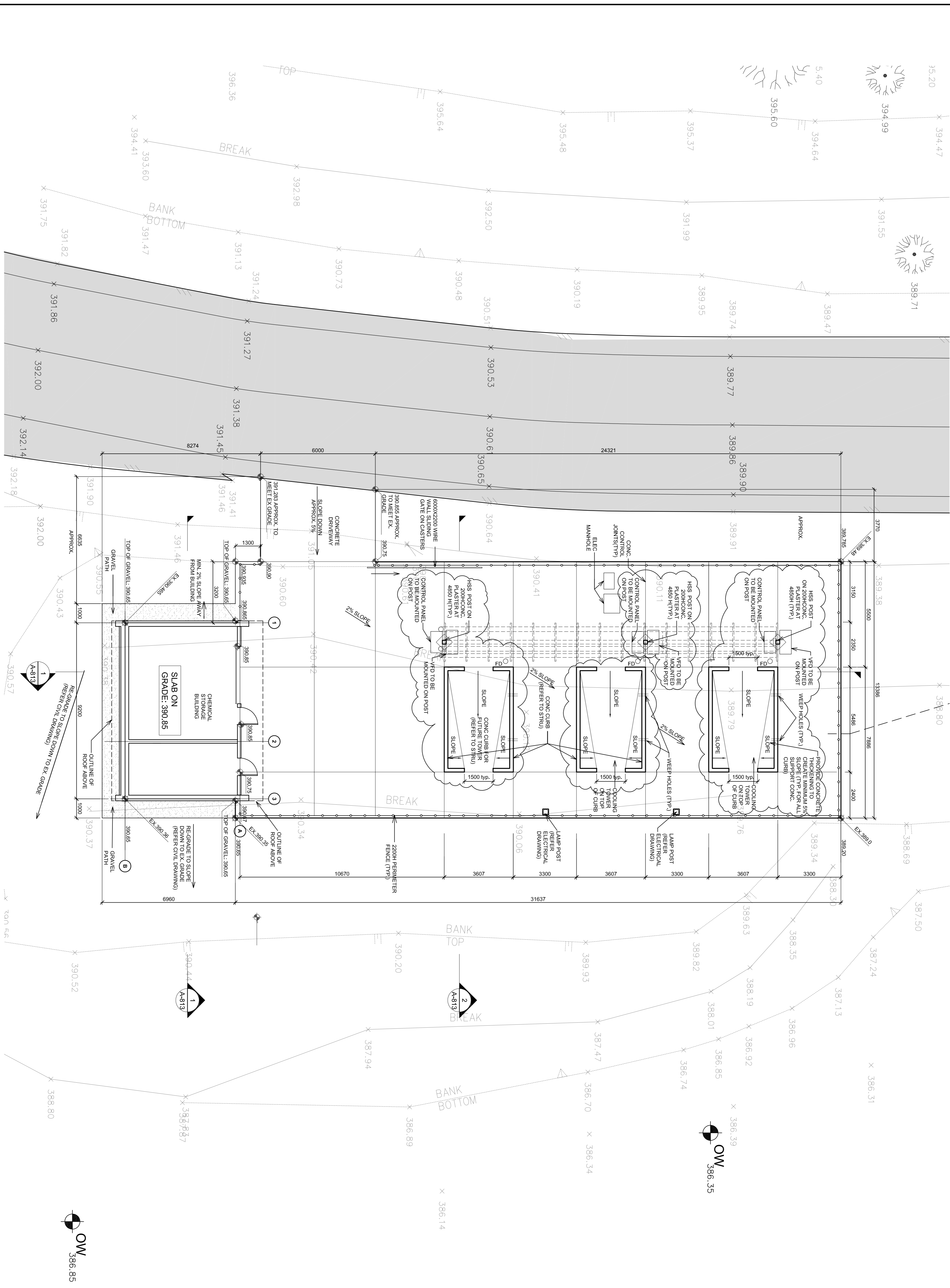
End of Addendum #1

5	ISSUED FOR AGREEMENT	28/11/2016
4	ISSUED FOR TENDER	30/10/2016
3	ISSUED FOR 100% CD	23/09/2016
2	ISSUED FOR 80% CD	04/09/2016
1	ISSUED FOR 60% CD	18/08/2016
0	ISSUED FOR 30% CD	04/07/2016
Revision/Description Date/Date		
Client/Client		
AGRICULTURE AND AGRI-FOOD CANADA		
Project title/Titre du projet 4200 97 HWY SOUTH SUMMERLAND BC		
Designed by/Concepté par TOM DUNPHY		
Drawn by/Dessiné par TV		
PWSGC Project Manager/Administrateur de projets (PWSGC) MW		
Professional Engineer, Architectural and Engineering Services Océanographie, Architecture, Services d'ingénierie et de génie, PWSGC PRELIMINARY PAUL		
Drawing title/Titre du dessin CHEMICAL STORAGE BUILDING SITE PLAN		

PACIFIC AGRI-FOOD
RESEARCH CENTRE
MECH & ELEC RETROFIT

Consultant Signature Only		
TV		
MW		
PWSGC Project Manager/Administrateur de projets (PWSGC) MW		
Professional Engineer, Architectural and Engineering Services Océanographie, Architecture, Services d'ingénierie et de génie, PWSGC PRELIMINARY PAUL		
Drawing title/Titre du dessin CHEMICAL STORAGE BUILDING SITE PLAN		

Project No./No. du projet R.075862.001	Sheet/Feuille A-812 OF XX	Revision No./ Le Révision 5
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- Note :
1. ALL NEW GRADING AS SHOWN ARE TOP OF CONCRETE SLAB ELEVATION UNO.
 2. PROVIDE POSITIVE SLOPE AWAY FROM THE NORTH SIDE OF THE BUILDING.
 3. PROVIDE POSITIVE SLOPE FROM THE EAST SIDE CONCRETE SLAB EDGE TO EXISTING LANDSCAPE AREA.
 4. ALL PERIMETER FENCE TO FOLLOW SLOPE OF CONCRETE SLAB.

110-1281 West Georgia
Vanouver, British Columbia
Canada V6E 3J5
Tel: 604 669-9460
Fax 604 683-7664

5	ISSUED FOR ADOPTION	26
4	ISSUED FOR TRUCK	50
3	ISSUED FOR 10% CO	20
2	ISSUED FOR 6% CO	20
1	ISSUED FOR 6% CO	20
0	ISSUED FOR 5% CO	20
Particulars / Client / Client	Description / Description	Part

**AGRICULTURE
AND
AGRI-FOOD CANADA**

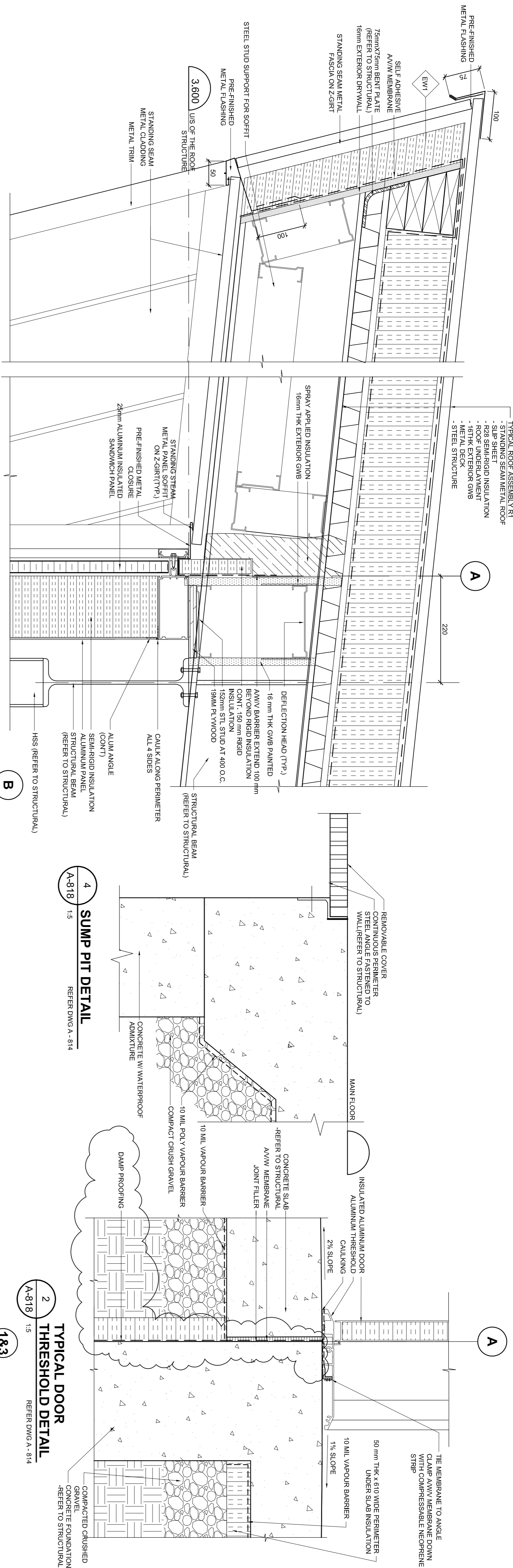
Project title/Titre du projet
4200 97 HWY
SOUTH SUMMERLAND BC

**PACIFIC AGRI-FOOD
RESEARCH CENTRE**

MECH & ELEC RETROFIT

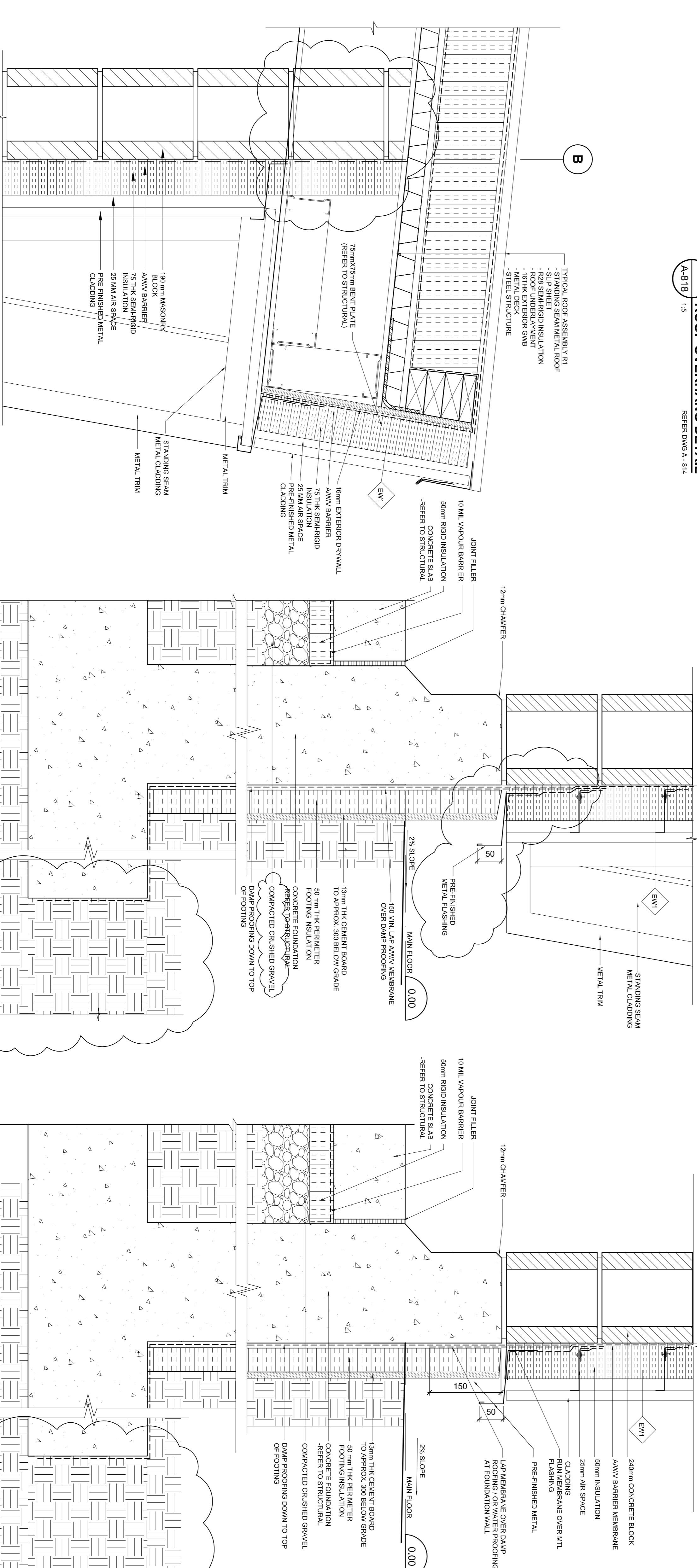
CHEMICAL STORAGE BUILDING SECTION DETAILS

Project No./No. du projet	Sheet/Feuille	Revision: La Rev no.
R.075862.001	A-818 OF XX	5



6	TYPICAL ROOF OVERHANG DETAIL
A-8-18 1:5	

REFER DWG A - 8-1



5
A-818

1:5

REFER DWG A - 815

TYPICAL ROOF DETAIL

**TYPICAL
FOUNDATION WALL DETAIL**

3	1:5
A-818	

REFER DWG A - 818

**TYPICAL FOUNDATION
WALL DETAIL @ GL 1&3**

1
A-818 1:5 REFER DWG A - 814

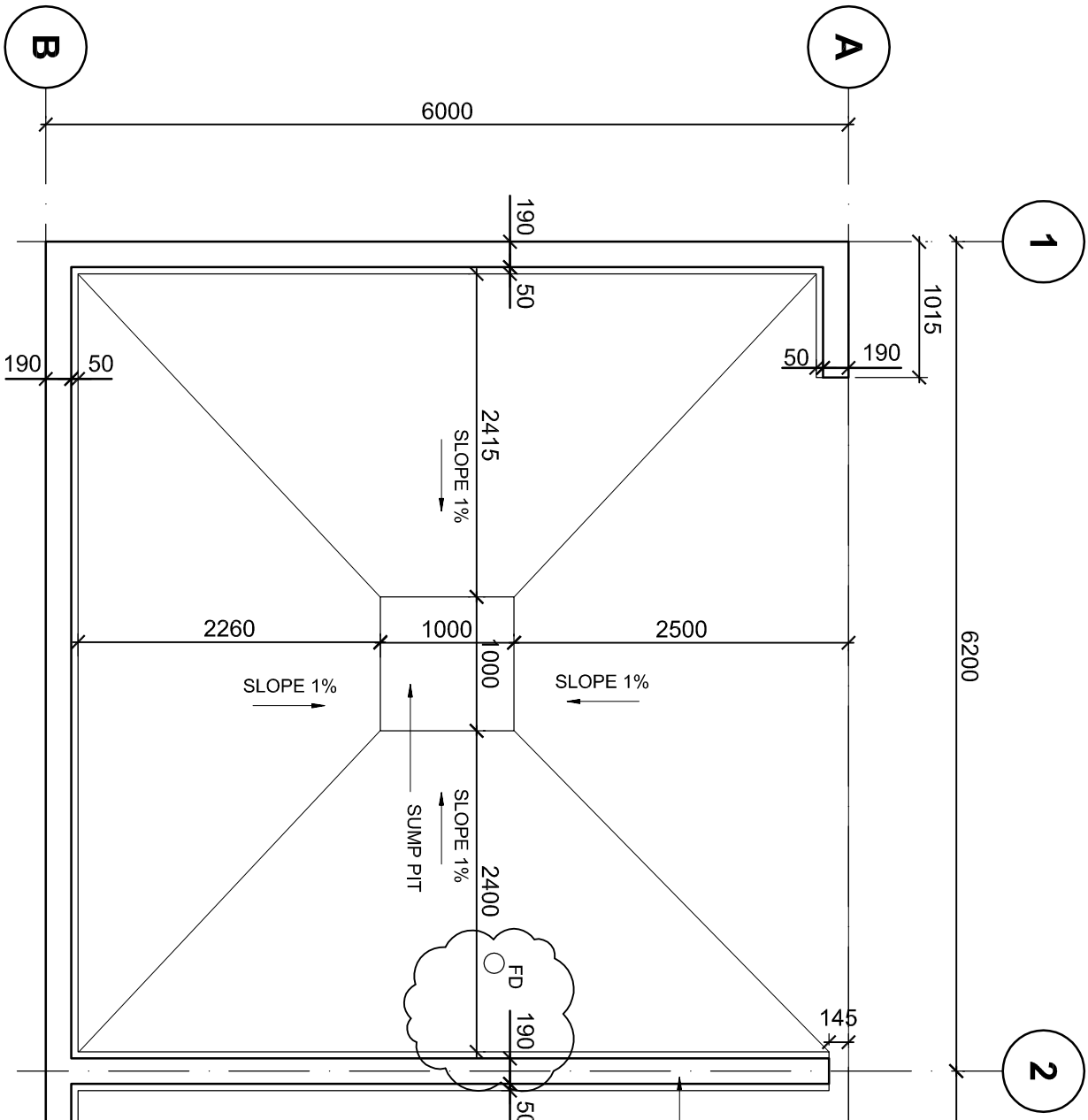


GENERAL CONSTRUCTION NOTES:

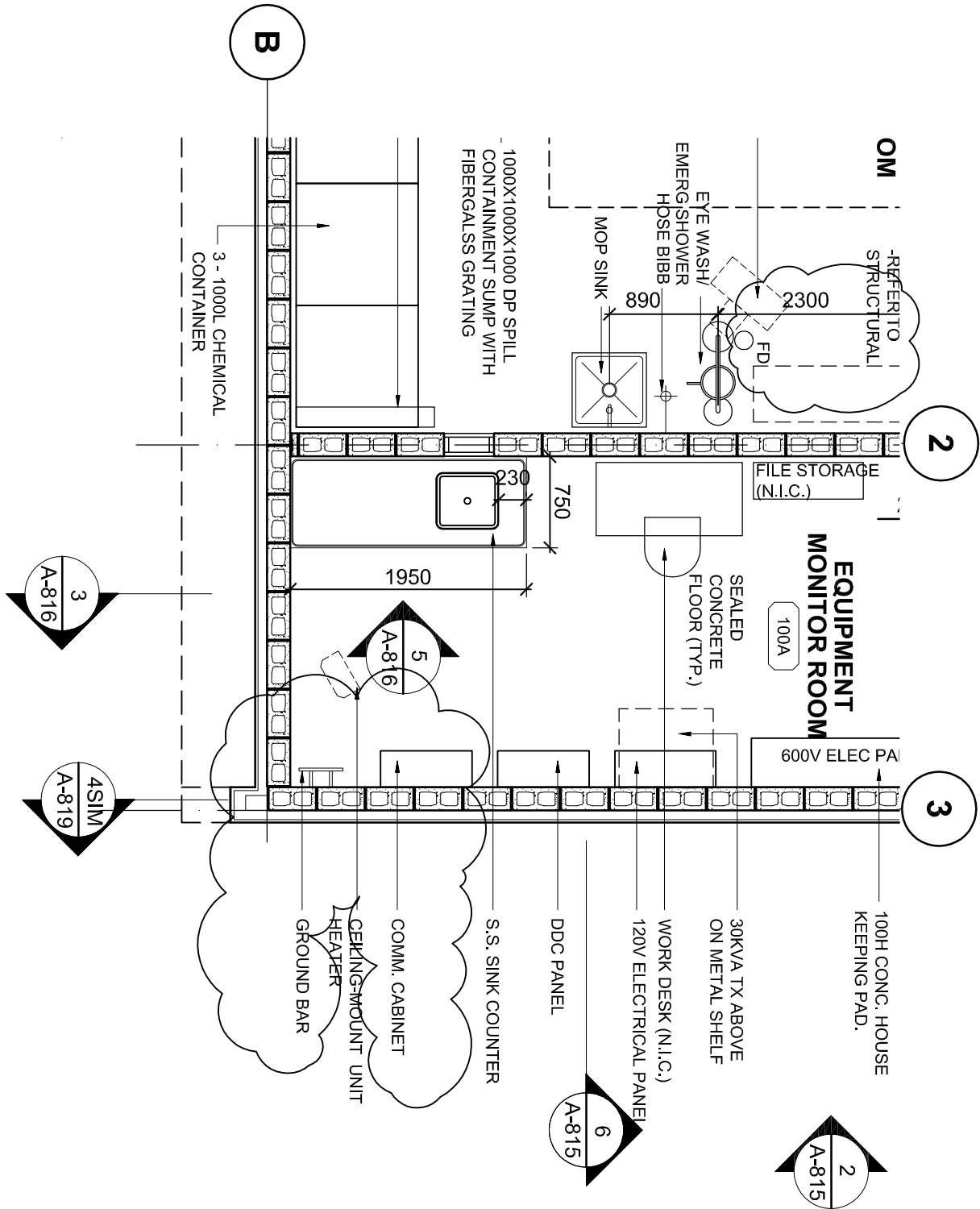
1. UNLESS NOTED ON DRAWINGS, TYPICAL EXTERIOR WALL TO BE TYPE EW1.
ALL ROOF TYPE TO BE R1.
2. WALL TYPES ARE TO BE CONTINUOUS ABOVE & BELOW WINDOWS AND
DOORS U.N.O.
3. FOR EXTERIOR WALL, PROVIDE SPRAY-APPLIED POLYURETHANE INSULATION TO
DECK FLUTES AT TOP OF WALL. CAULK ALL PENETRATIONS THROUGH WALL AIR TIGHT.
4. ALL EXTERIOR STEEL FABRICATION EXPOSED TO VIEW TO BE HOT-DIPPED
GALVANIZED.
5. ALL EXPOSED CEILING DECK & STRUCTURE TO BE PAINTED WHITE.
6. ALL EXPOSED CONCRETE MASONRY BLOCK WALL TO BE PAINTED WHITE.
7. CAULK ALL FASTENERS, OR SCREWS THAT DRILL THROUGH THE INSULATED
ALUMINUM SANDWICH PANEL

8. TYPICAL SLAB ON GRADE
- CONCRETE SLAB ON GRADE
 - 10MIL POLY VAPOUR BARRIER
 - COMPACTED CRUSH GRAVEL

Project title/Titre du projet PACIFIC AGRI-FOOD RESEARCH CENTRE MECH & ELEC RETROFIT 4200 97 HWY SOUTH SUMMERLAND BC		Drawing title/Titre du dessin COVER SHEET	
Consultant Signature Only	PWGSC Project Manager/Administrateur de Projets TPSGC TOM DUNPHY	Scale/Echelle	
Designed by/Concept par TY	PWGSC, Regional Manager, Architectural and Engineering Services/ Gestionnaire régionale, Services d'architectural et de génie, TPSGC PREETIPAL PAUL	Date/Date 2015-11-26	
Drawn by/Dessine par MW	Project No./No. du projet R.075862.001	Sheet/Feuille AD-01	Revision/ Revision 5



3 SLAB EDGE PLAN
A-814 1 : 50



1 FLOOR PLAN
A-814 1 : 50

Client/client		Drawing title/Titre du dessin	
PARKS CANADA		CHEMICAL STORAGE BUILDING PLANS	
Project title/Titre du projet		Consultant Signature & Date Only	
PACIFIC AGRIFOOD RESEARCH CENTRE		PWGSC Project Manager/Administrateur de Projets TPSGC TOM DUNPHY	
MECH & ELEC RETROFIT		Designed by/Concept par	
4200 97 HWY SOUTH SUMMERLAND BC		PWGSC, Regional Manager, Architectural and Engineering Services/Gestionnaire Régionale, Services d'architectural et de génie, TPSGC PREETIPAL PAUL	
		Drawn by/Dessiné par	
		Date/Date	
		2015-11-26	
		Project No./No. du projet	
		R.075862.001	
		Sheet/Feuille	
		AD-02	
		Revision/Révision	
		5	

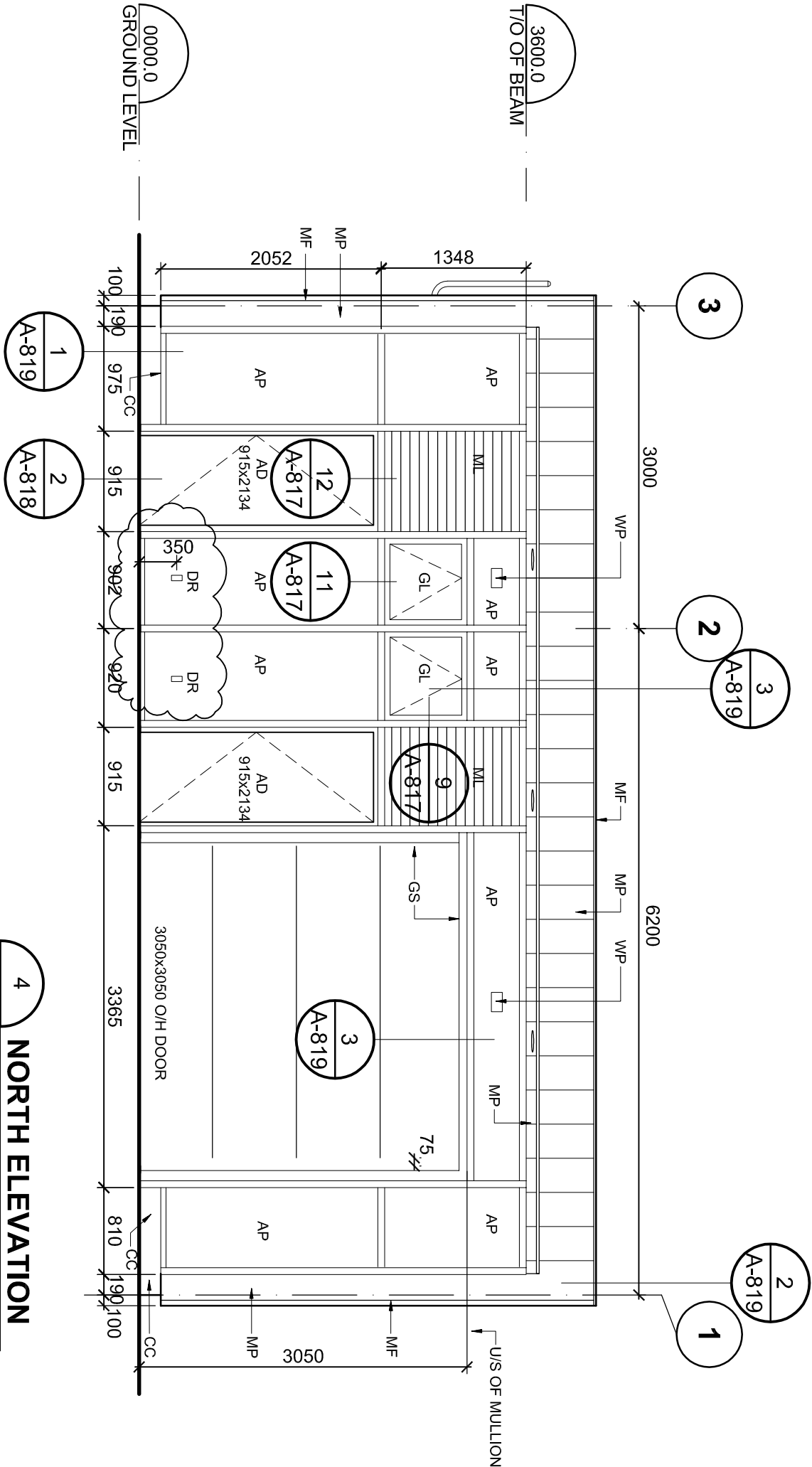


LEGEND:

- AP 25MM ALUMINUM SANDWICH PANEL
- AD ALUMINUM DOOR
- DR DUPLEX RECEPTACLE
- GL INSULATED GLAZED UNIT
- GS GALVANIZED STEEL FRAME
- MF PRE-FINISHED METAL FLASHING
- ML MOTORIZED DAMPER
- MR PRE-FINISHED METAL PANEL
- MR METAL ROOF
- WP WALL MOUNT LIGHT FIXTURE
- CC CONCRETE

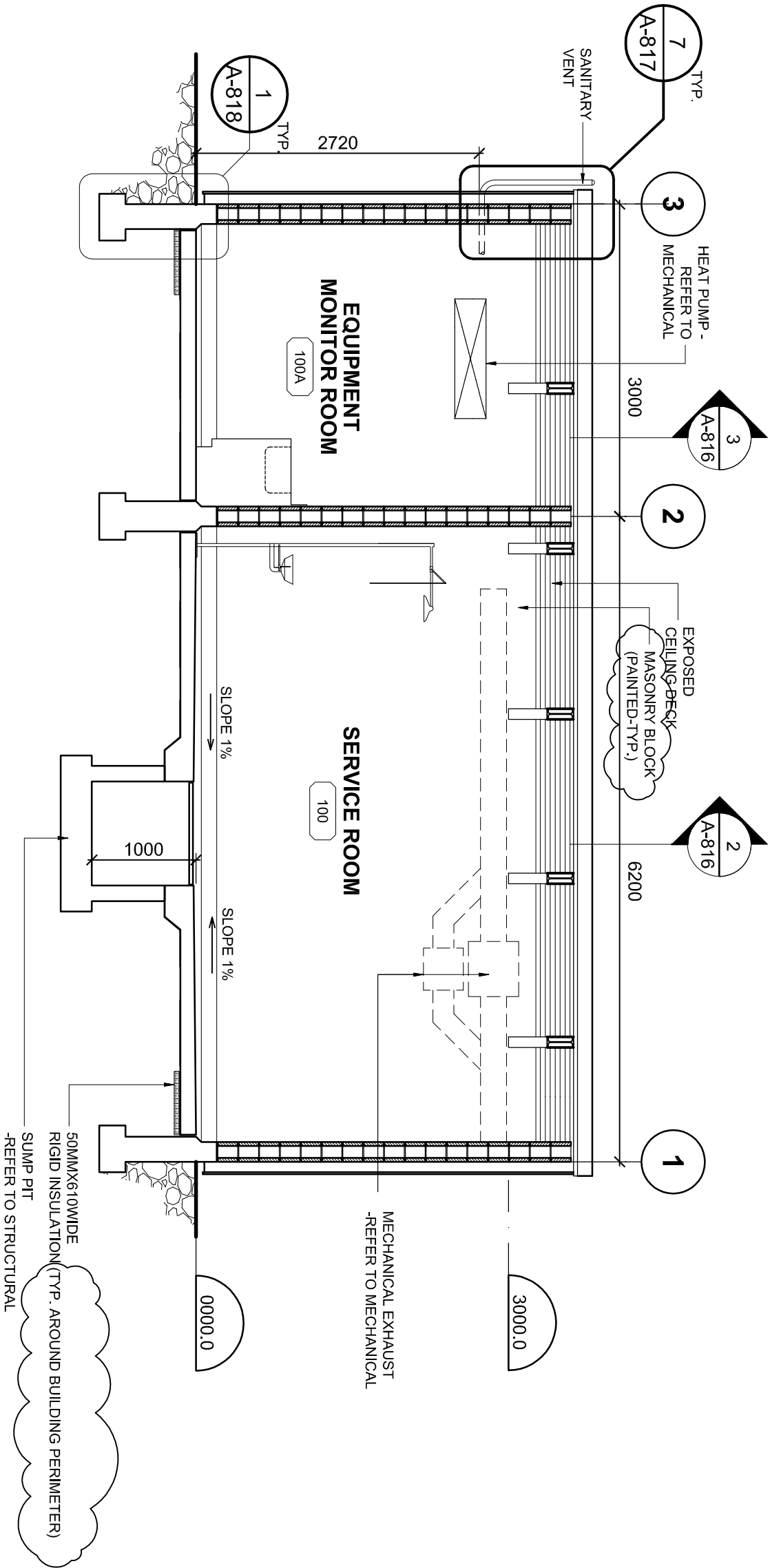


TOP HANG OPERABLE WINDOW



4 NORTH ELEVATION
A-815 1 : 50

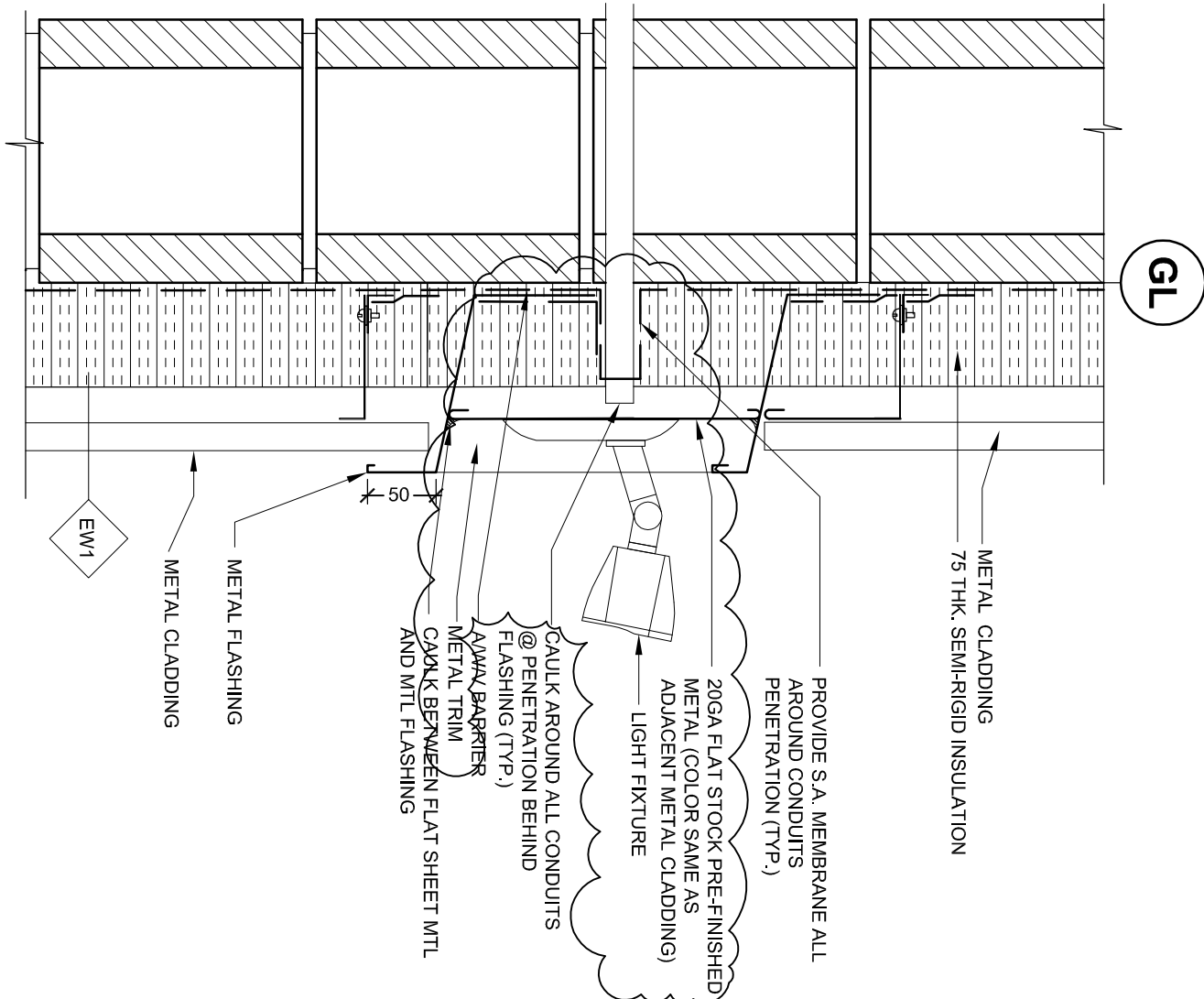
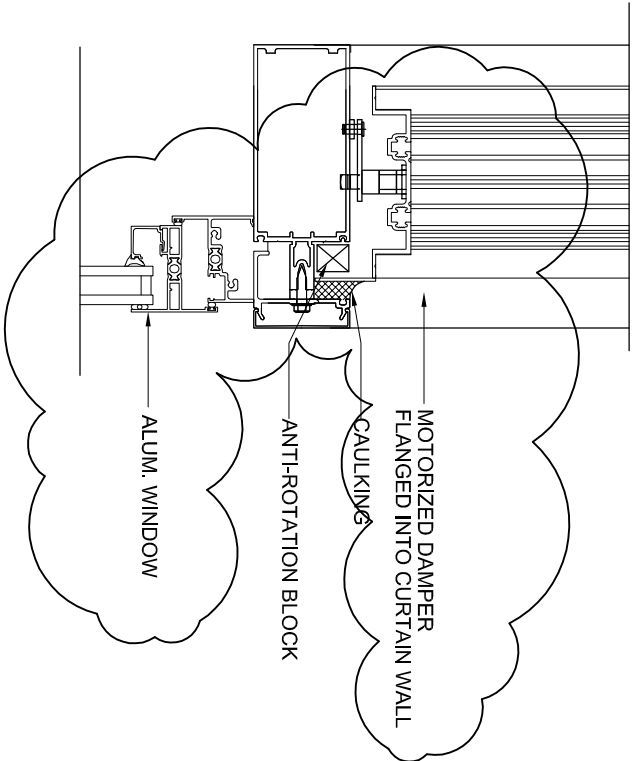
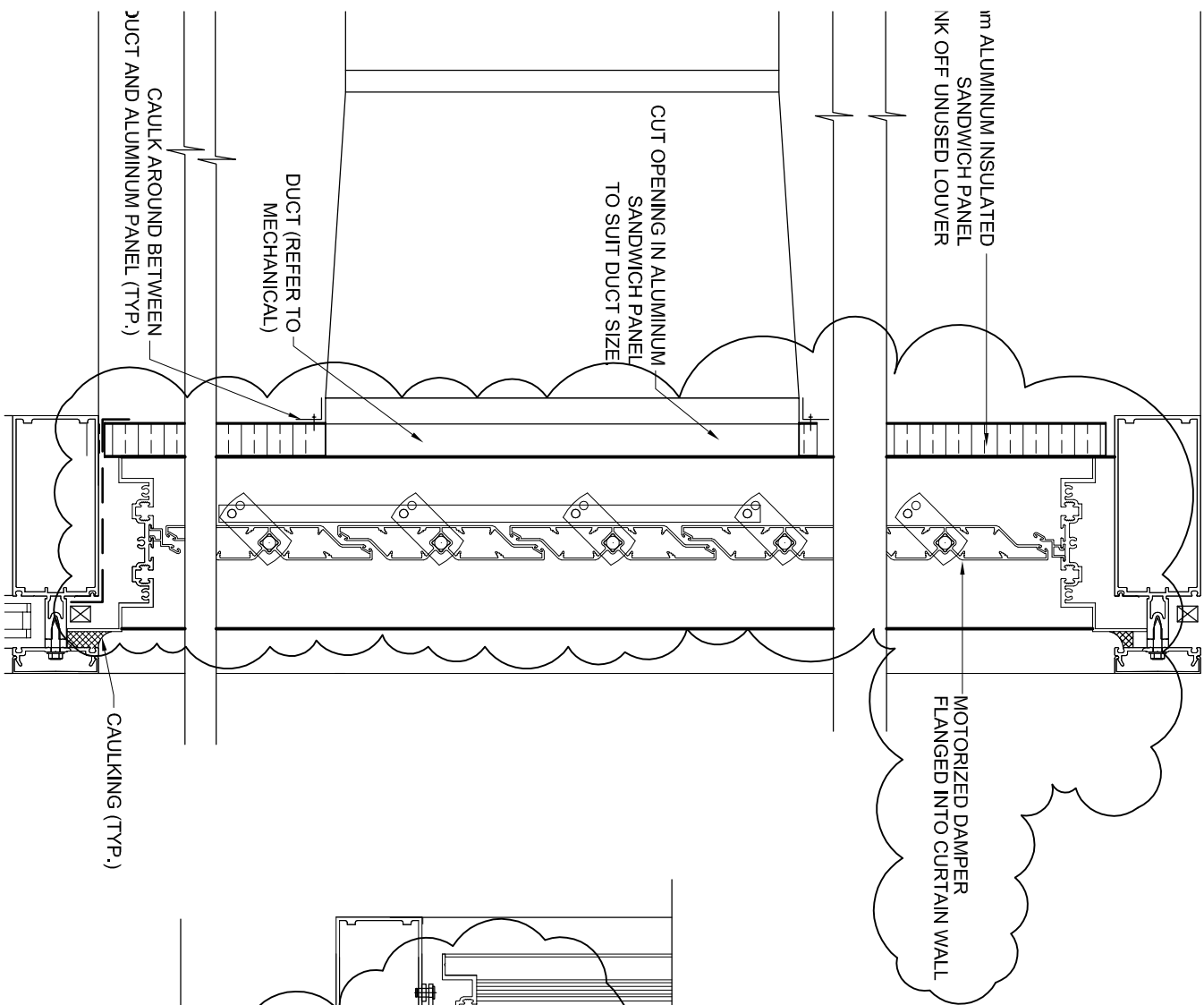
Client/client	Project title/Titre du projet	Drawing title/Titre du dessin
PARKS CANADA	PACIFIC AGRIFOOD RESEARCH CENTRE CHEMICAL STORAGE BUILDING 4200 97 HWY SOUTH SUMMERLAND BC	CHEMICAL STORAGE BUILDING ELEVATIONS
Consultant Signature & Date Only		PWGSC Project Manager/Administrateur de Projets TPSGC TOM DUNPHY
Designed by/Concept par		PWGSC, Regional Manager, Architectural and Engineering Services/Gestionnaire Régionale, Services d'architectural et de génie, TPSGC PREETIPAL PAUL
Drawn by/Dessiné par		MMW
Date/Date		2015-11-26
Project No./No. du projet		R.075862.001
Sheet/Feuille		AD-03 OF
Revision/Révision		5



6 BUILDING SECTION
A-816 1 : 50

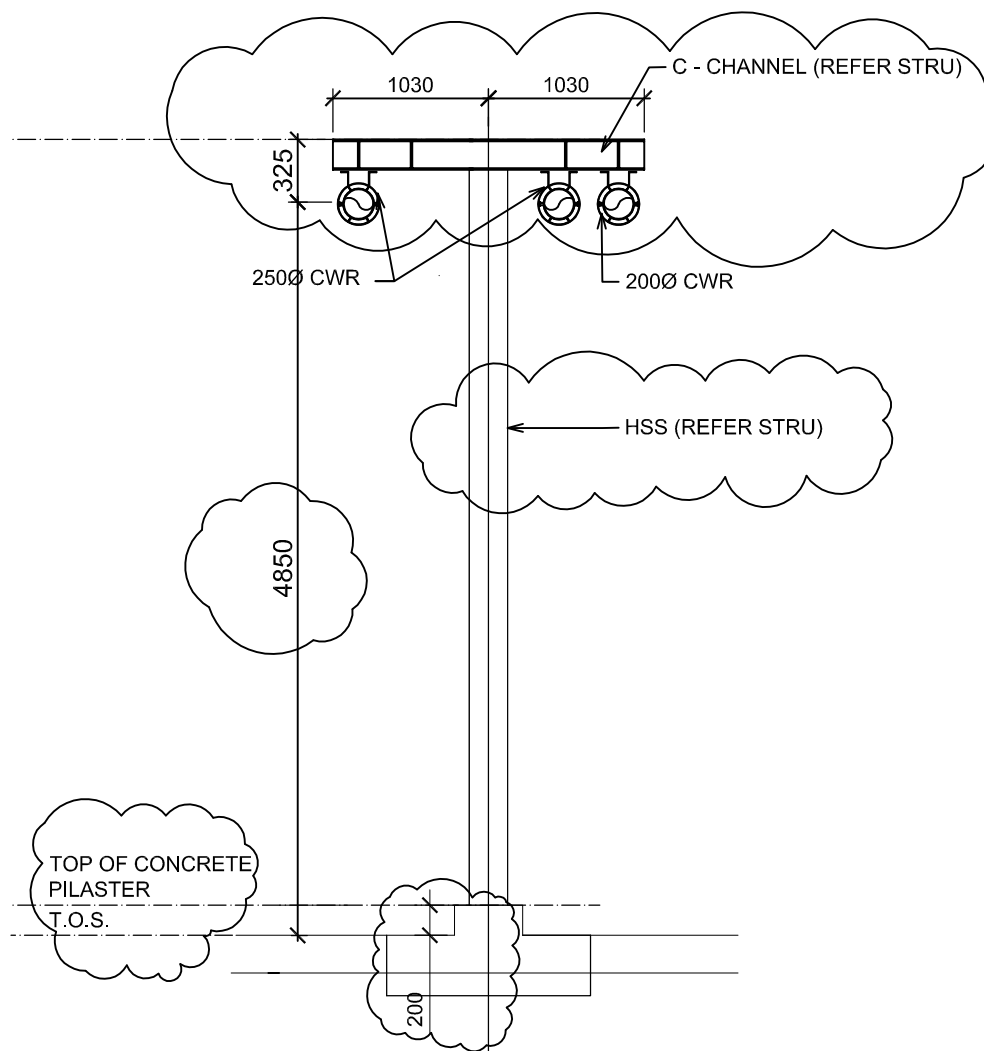
Client/Client	Project title/Titre du projet		Drawing title/Titre du dessin	
PARKS CANADA	PACIFIC AGRIFOOD RESEARCH CENTRE CHEMICAL STORAGE BUILDING 4200 97 HWY SOUTH SUMMERLAND BC		CHEMICAL STORAGE BUILDING SECTIONS AND MILLWORK DETAILS	
Consultant Signature & Date Only		PWSC Project Manager/Administrateur de Projets TPSCG TOM DUNPHY	Project No./No. du projet R.075862.001	
Designed by/Concept par TY		PWSC, Regional Manager, Architectural and Engineering Services/Gestionnaire Régionale, Services d'architectural et de génie, TPSCG PREETIPAL PAUL	Sheet/Feuille AD-04 OF 5	
Drawn by/Dessiné par MW		Date/Date 2015-11-26	Revision/Révision 5	





Client/client	Project title/Titre du projet	Drawing title/Titre du dessin	Consultant Signature & Date Only		Project No./No. du projet	
PARKS CANADA	PACIFIC AGRIFOOD RESEARCH CENTRE CHEMICAL STORAGE BUILDING 4200 97 HWY SOUTH SUMMERLAND BC	CHEMICAL STORAGE BUILDING PLAN DETAILS AND SECTION DETAILS	PWGSC Project Manager/Administrateur de Projets TPSGC TOM DUNPHY		R.075862.001	
			Designed by/Concept par TY	PWGSC, Regional Manager, Architectural and Engineering Services/ Gestionnaire Régionale, Services d'architecture et de génie, TPSGC PREETIPAL PAUL	Sheet/Feuille	Revision/Révision
			Drawn by/Dessiné par MMW	Date/Date 2015-11-26	AD-05 OF	5





6

A-819

TRUNK DETAIL

1 : 50

NOTE: ALL EXTERIOR STEEL TO BE
HOT-DIPPED GALVANIZED

Project title/Titre du projet

**PACIFIC AGRI-FOOD RESEARCH CENTRE
MECH & ELEC RETROFIT
4200 97 HWY SOUTH SUMMERLAND BC**

Drawing title/Titre du dessin

**CHEMICAL STORAGE BUILDING
SECTION DETAILS**

Consultant Signature Only

PWGC Project Manager/Administrateur
de Projets TPSGC **TOM DUNPHY**

Scale/Echelle

Designed by/Concept par

TY

PWGC, Regional Manager, Architectural and Engineering Services/
Gestionnaire régionale, Services d'architectural et de génie, TPSGC
PREETIPAL PAUL

Date/Date

2015-11-26

Drawn by/Dessine par

MW

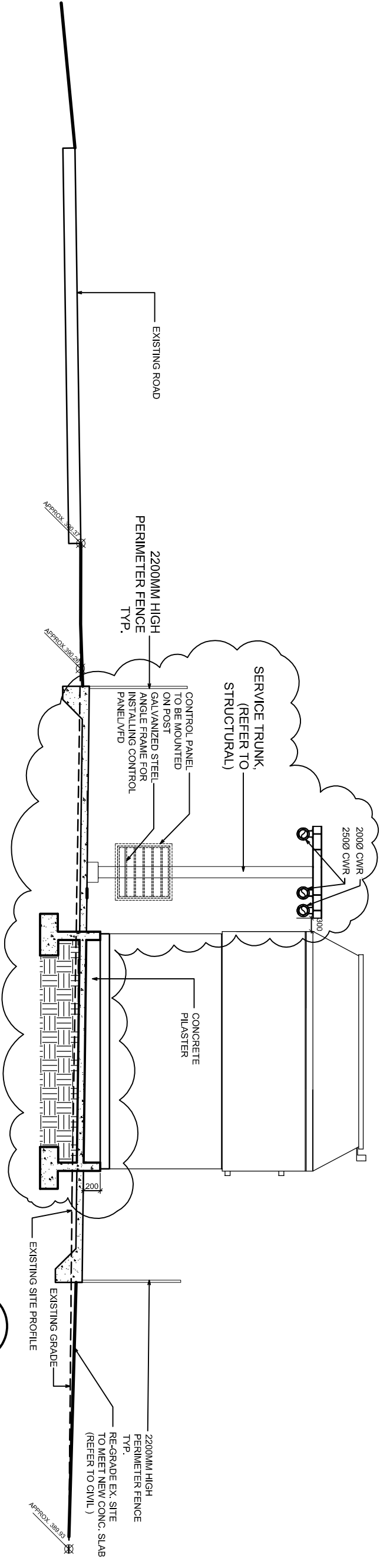
Project No./No. du
projet **R.075862.001**

Sheet/Feuille

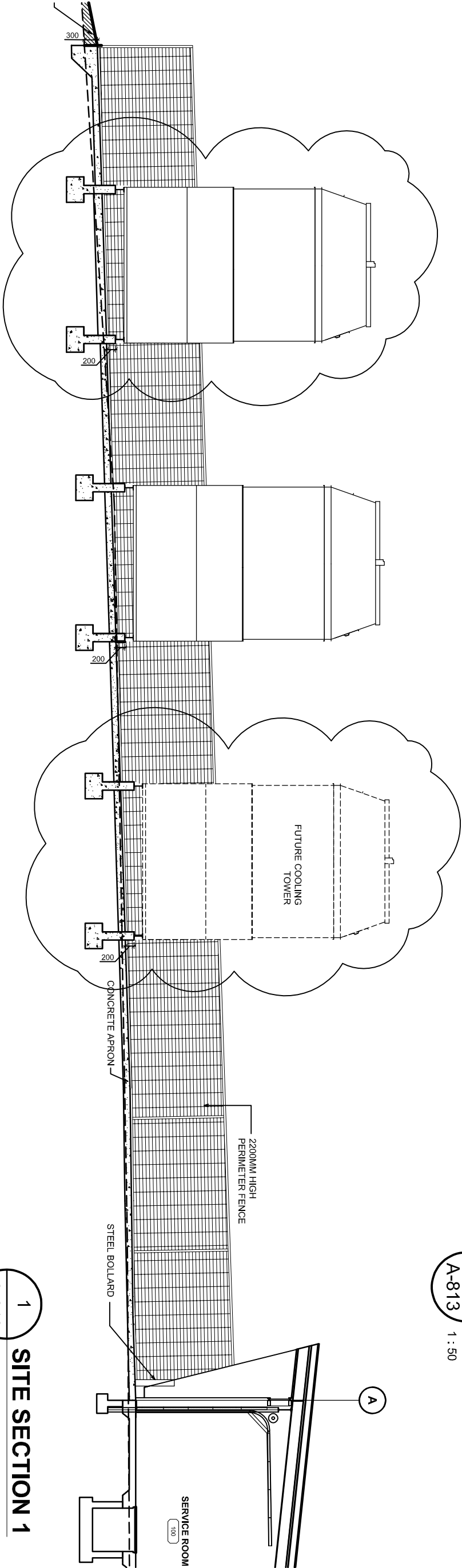
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Revision/
Revision

5



2
A-813
1 : 50
SITE SECTION 2



1
A-813
1 : 50
SITE SECTION 1

Client/client	Project title/Titre du projet		Drawing title/Titre du dessin		Consultant Signature & Date Only		PWGSC Project Manager/Administrateur de Projets TPSGC TOM DUNPHY		Project No./No. du projet R.075862.001	
PARKS CANADA	PACIFIC AGRIFOOD RESEARCH CENTRE CHEMICAL STORAGE BUILDING 4200 97 HWY SOUTH SUMMERLAND BC		CHEMICAL STORAGE BUILDING SITE SECTIONS		Designed by/Concept par TY		PWGSC, Regional Manager, Architectural and Engineering Services/ Gestionnaire régionale, Services architecturaux et de génie, TPSGC PREETIPAL PAUL		Sheet/Feuille AD-07	
					Drawn by/Dessiné par MMW		Date/Date 2015-11-26		Revision/ Révision 5	



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2 SPECIFICATIONS

- .1 Section 23 05 13 – Common .1 Motor Requirements for HVAC
 - .1 Add Clauses 2.2.4 to 2.2.11 to read:
 - .4 All motors shall be designed and manufactured to operate with $\pm 10\%$ voltage and $\pm 5\%$ frequency variations of the nameplate ratings. Combined voltage and frequency variation shall not exceed $\pm 10\%$.
 - .5 Motors will be rated for a 1.15 service factor in a 40°C ambient environment.
 - .6 All motors to be standard 1800 RPM unless specifically scheduled otherwise.
 - .7 Provide all motors with terminal boxes, suitable for power connections.
 - .8 Provide screw adjustable bases on all belt-connected motors.
 - .9 Motors to be of the capacitor start type when they may be manually cycled from a starting switch, which is located in the finished space.
 - .10 Motors exposed to outdoor temperature to be lubricated with lubricants suitable for operation at 6 deg. C. below the lowest temperature recorded by ASHRAE or the Climatic Information (Supplement to the National Building Code), for the location in which they are installed.
 - .11 All motors that are controlled by a VFD shall be inverter duty motors, and shall use a dielectric grease bearings and a shaft grounding kit with a system of brass or stainless steel brushings.
 - .2 Add Clause 2.6 to read:
 - 2.6 Motor Efficiency
 - .1 All motors shall be provided with premium efficiency classification with non-wicking leads, class 'B' for O.D.P. motors (pumps only) and class 'F' for TEFC motors insulation (minimum).
 - .2 Motor efficiency shall meet requirements of the BC Building Code, Model National Energy Code for Buildings and ASHRAE 90.1.
- .2 Section 23 65 00
 - .1 Delete clause 2.1.9.3, Replace with Clause 2.1.9.3 to read:

- .3 Provide Variable Speed drives (VFD-s) and starters for the fans and pumps, mounted inside the Control Panel Enclosure.
- .2 Delete clause 3.1.3, Replace with Clause 3.1.3 to read:
 - .3 Not Used.

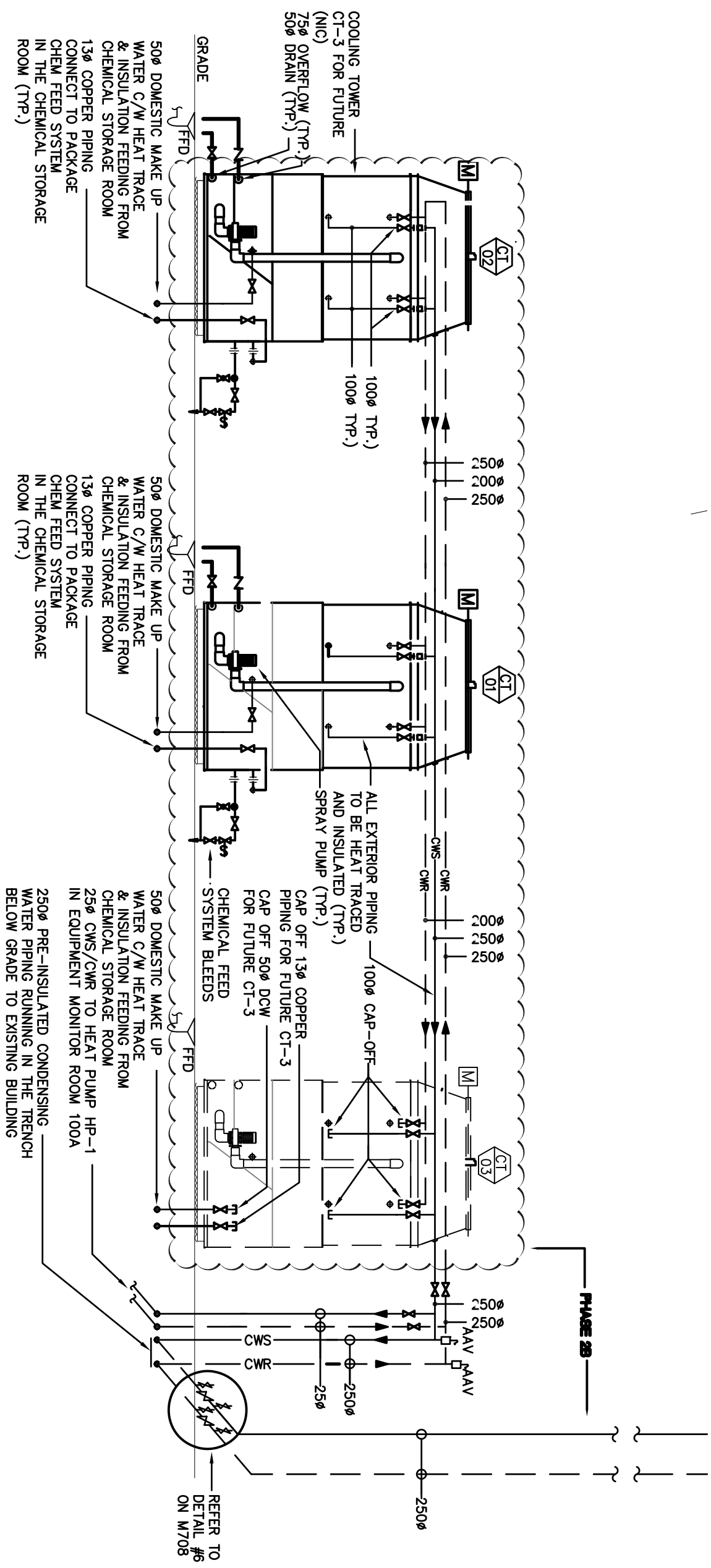
3 DRAWINGS

- .1 Drawing M701
 - .1 Revise the drawing per enclosed sketch MSK-1. Note: Changes depicted also apply to drawings M703, MM704, M705 and M706.
- .2 Drawing M812
 - .1 Revise the drawing per enclosed sketch MSK-3.
- .3 Drawing M815
 - .1 Revise the drawing per enclosed sketch MSK-2.

4 QUESTIONS AND ANSWERS

- .1 Q1: Drawing E-900, Note 4 indicates that CT1 & CT2 control panels are to be supplied by Division 25. Please confirm that Division 25 is installing them as well.
A1: The intent is that the control panels for CT1 & CT2 are to be supplied by Division 23, and mounted on a support frame by Div 23; electrical and controls connections by Div 26 and Div 25.
- .2 Q2: When the spec calls for "deferred work" to the next cooling season, regarding re-commissioning is that the cooling season of 2017?
A1: If the startup of the towers is past August, the following season is the one where the loads can be encountered, and adjustments to set-points may be required.

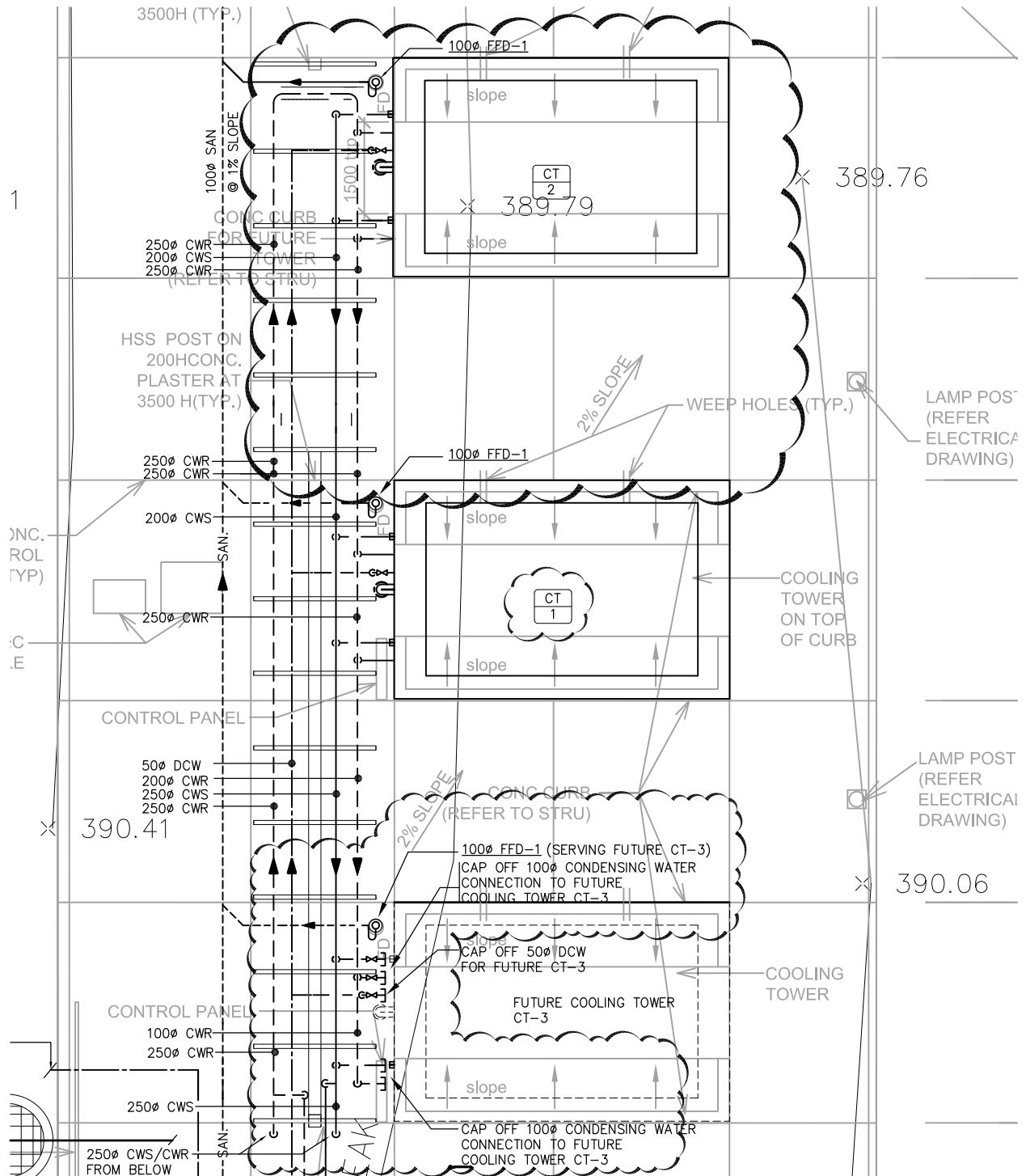
End of Addendum



1 CONDENSER WATER LOOP SCHEMATIC PHASE 2B
N.T.S.
MSK-01

GENERAL NOTE:
THE CHANGES APPLY TO MECHANICAL
DRAWING M701, M703, M704, M705 AND
M706

Client/Client	Project title/Titre du projet			Drawing title/Titre du dessin		Consultant Signature & Date Only	PWOSC Project Manager/Administrateur de Projets TPSCC DOM DUMPHY	Project No./No. du projet 115615169	
	4200 97 HWY SOUTH SUMMERLAND, BC		CONDENSER WATER LOOP SCHEMATIC PHASE 2B		Designed by/Concepté par DJ	Date/Date 2015-11-25	PWOSC, Registered Mechanical Engineering Services Ingénierie Mécanique Professionnelle et de génie, TPSCC PREETIPAL PAUL	Sheet/Feuille MSK-01 OF	Revision/ Révision X
	PACIFIC AGRIFOOD RESEARCH CENTRE								
	MECH & ELEC RETROFIT								



Project title/Titre du projet

**PACIFIC AGRI-FOOD RESEARCH CENTRE
MECH & ELEC RETROFIT**
4200 97 HWY SOUTH SUMMERLAND BC

Drawing title/Titre du dessin

COOLING TOWER CONNECTION DETAILS

Consultant Signature Only

PWGSC Project Manager/Administrateur
de Projets TPSGC **TOM DUNPHY**

Scale/Echelle

N.T.S.

Designed by/Concept par

DJ

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

Date/Date

2015-11-25

Drawn by/Dessine par

DJ

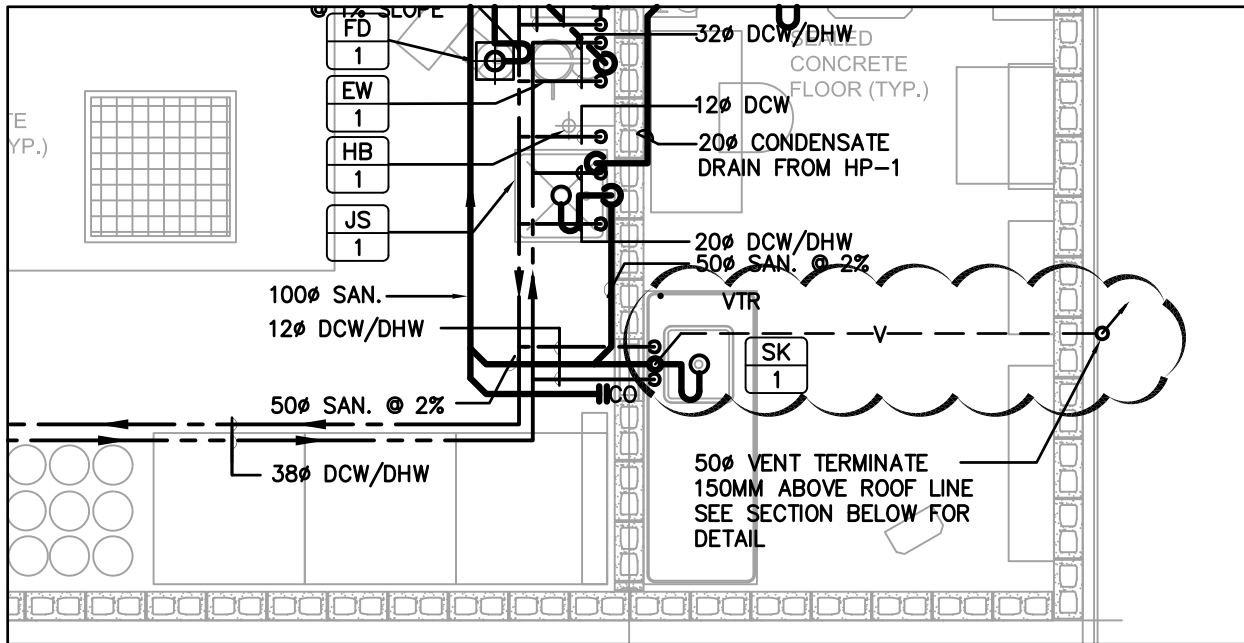
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projet **115615169**

Sheet/Feuille

MSK-02

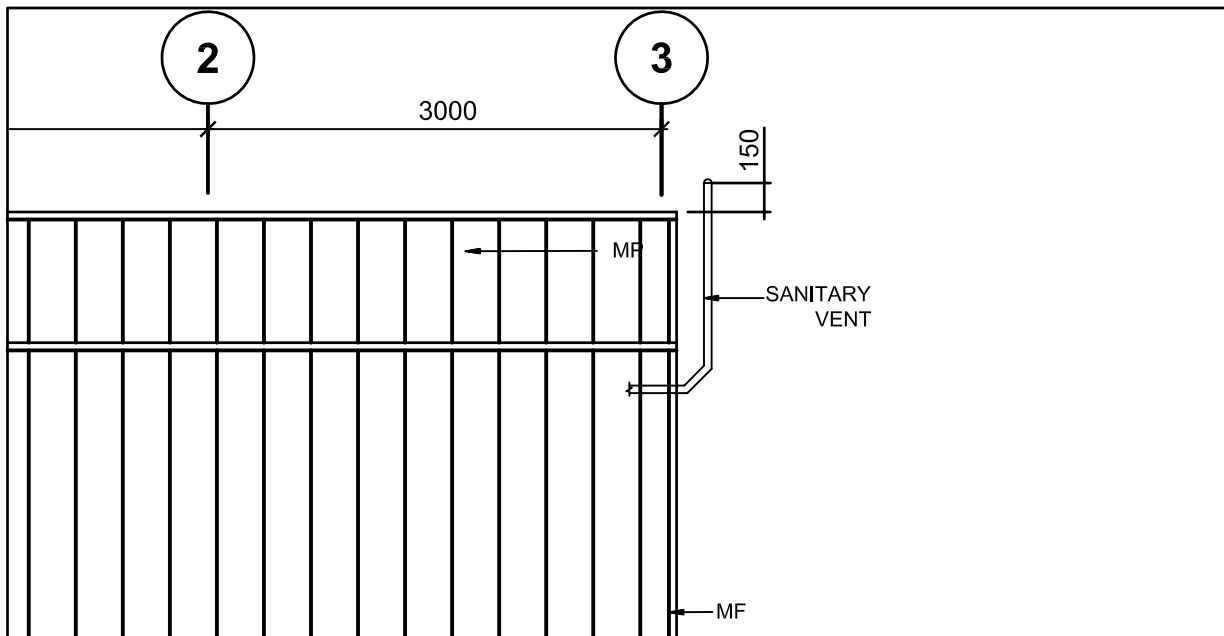
Revision/
Revision





EQUIPMENT MONITOR RM SANITARY VENT REVISION

SCALE: 1:50



SANITARY VENT SECTION DETAIL

SCALE: 1:50

Project title/Titre du projet

**PACIFIC AGRI-FOOD RESEARCH CENTRE
MECH & ELEC RETROFIT**

4200 97 HWY SOUTH SUMMERLAND BC

Drawing title/Titre du dessin

**CHEMICAL STORAGE SANITARY
VENT REVISION**

Consultant Signature Only

PWGSC Project Manager/Administrateur
de Projets TPSGC **TOM DUNPHY**

Scale/Echelle

1:50

Designed by/Concept par

DJ

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

Date/Date

2015-11-25

Drawn by/Dessine par

DJ

Project No./No. du
projet **115615169**

Sheet/Feuille

MSK-03

Revision/
Revision



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2 SPECIFICATIONS

- .1 N/A

3 DRAWINGS

- .1 Refer to drawings E-150, E-800, E-810, E-820 attached
- .2 Drawing E-150
 - .1 Add drawing scale and scale bar.
- .3 Drawing E-800
 - .1 Move conduits for power and communication to follow the same trench path as mechanical pipes.
 - .2 Add drawing scale and scale bar.
- .4 Drawing E-810
 - .1 Move JB 332 and JB T266 to outside the fence in the landscape area and to match new conduit trench path.
 - .2 Move pump, fans, cables, controller, connections, and junction box for CT2 from current CT2 location to new CT2 location.
 - .3 Move controller for CT1 to new location.
 - .4 Extend power and communication conduits for CT1, CT2, and future CT3 to match new controller locations.
 - .5 Add drawing scales and scale bar.
- .5 Drawing E-820
 - .1 Move light switches near GL A/2 to HSS post.
 - .2 Move light switch near GL A/3 closer to door.
 - .3 Move receptacle and heat trace controller for mechanical pipe in trench near GL A/1 to masonry wall.
 - .4 Move heat trace controllers for CT2 pipe and CT1 pipe near GL A/2 to masonry wall.
 - .5 Move receptacle near GL A/3 to masonry wall.
 - .6 Add drawing scales and scale bar.

4 QUESTIONS AND ANSWERS

- .1 Q1: Drawing E-150 indicates the location for a new Panel MDC-SN. This location currently has live electrical equipment installed along the entire length of the wall. There is no space for any new electrical equipment on this wall. Please advise where this new panel should be installed.
A1: Install unistrut, mount Panel MDC-SN on the unistrut and offset from the wall on top of the existing conduits on wall.
- .2 Q2: Drawing E-900, Note 4 indicates that CT1 & CT2 control panels are to be supplied by Division 25. Please confirm that Division 25 is installing them as well.
A2: CT1 & CT2 power supply to be installed by Div 26.
- .3 Q3: Please confirm if local disconnects are required for CT-1 and CT-2 heaters.
A3: Local disconnects are required for CT1 and CT2 heater.
- .4 Q4: Specification Section 26 05 28, Item 3.1.1 states "Where EMT is used, run ground wire in conduit". Please confirm the intent. Are separate ground conductors to be run in all conduits?
A4: Run separate ground conductor in EMT as per spec.
- .5 Q5: Specification Section 26 05 34, Item 3.2.3 states "Use galvanized steel threaded conduit except where specified otherwise". Please confirm if EMT is suitable for use in the Chemical Storage Building for surface indoor branch wiring.
A5: EMT is acceptable for use in the Chemical Storage Building for surface indoor branch wiring.
- .6 Q6: No scale on the electrical drawings for measuring?
A6: OVERALL SITE PLAN AND COOLING TOWER SITE PLAN SCALE IS 1:200; CEILING PLAN AND FLOOR PLAN SCALE IS 1:50
- .7 Q7: Poles shown on drawing E-810 for the 2 pole lights have 2 different sizes? Which is correct 20' or 30'.
A7: Light pole is 30' High.
- .8 Q8: Are we including a seismic engineer like the spec or is the bid depository exclusion superseding?
A8: Seismic engineer need to provide seismic schedule.
- .9 Q9: Drawing E-900, Detail 1 shows VFD's external to the Control Panels. Please confirm that this is an oversight and that VFD's are integral to CT1 & CT2.
A9: VFDs are integral to CT1 and CT2 control panel.
- .10 Q10: MCC-1 and MCC-1S show a number of starters to be demolished. Can these be left in place and relabeled as Spares?
A10: Remove demolished starter from the MCC-1 and MCC-1s, make good and relabel as spares.
- .11 Q11: Drawing E-150, bottom LH corner Demolition note references a panel and transformer to be demolished and removed from site. Please advise equipment numbers and location of this equipment.

A11: This note is not applicable in this project.

- .12 Q12: Drawing E-800, BCH Service Vaults. Please confirm that the supply and .12 installation of these precast concrete vaults are in the electrical scope and not the civil scope.

A12: Electrical is to provide & install conduits and concrete vaults.

End of Addendum

Revision/	Description/Description	Date/Date
	ADDENDUM 01	11/27/15
	ISSUED FOR TENDER	10/05/15
	99% REVIEW	09/03/15
	66% REVIEW	08/19/15
	33% REVIEW	07/29/15

Client/client

AGRICULTURE
AND
AGRI-FOOD CANADA

Project title/Titre du projet
4200 97 HWY
SOUTH SUMMERLAND BC

PACIFIC AGRI-FOOD
RESEARCH CENTRE

MECH & ELEC RETROFIT

Consultant Signature Only

Designed by/Concept par

Drawn by/Dessine par

PWGSC Project Manager/Administrateur de Projets TPSGC

TOM DUNPHY

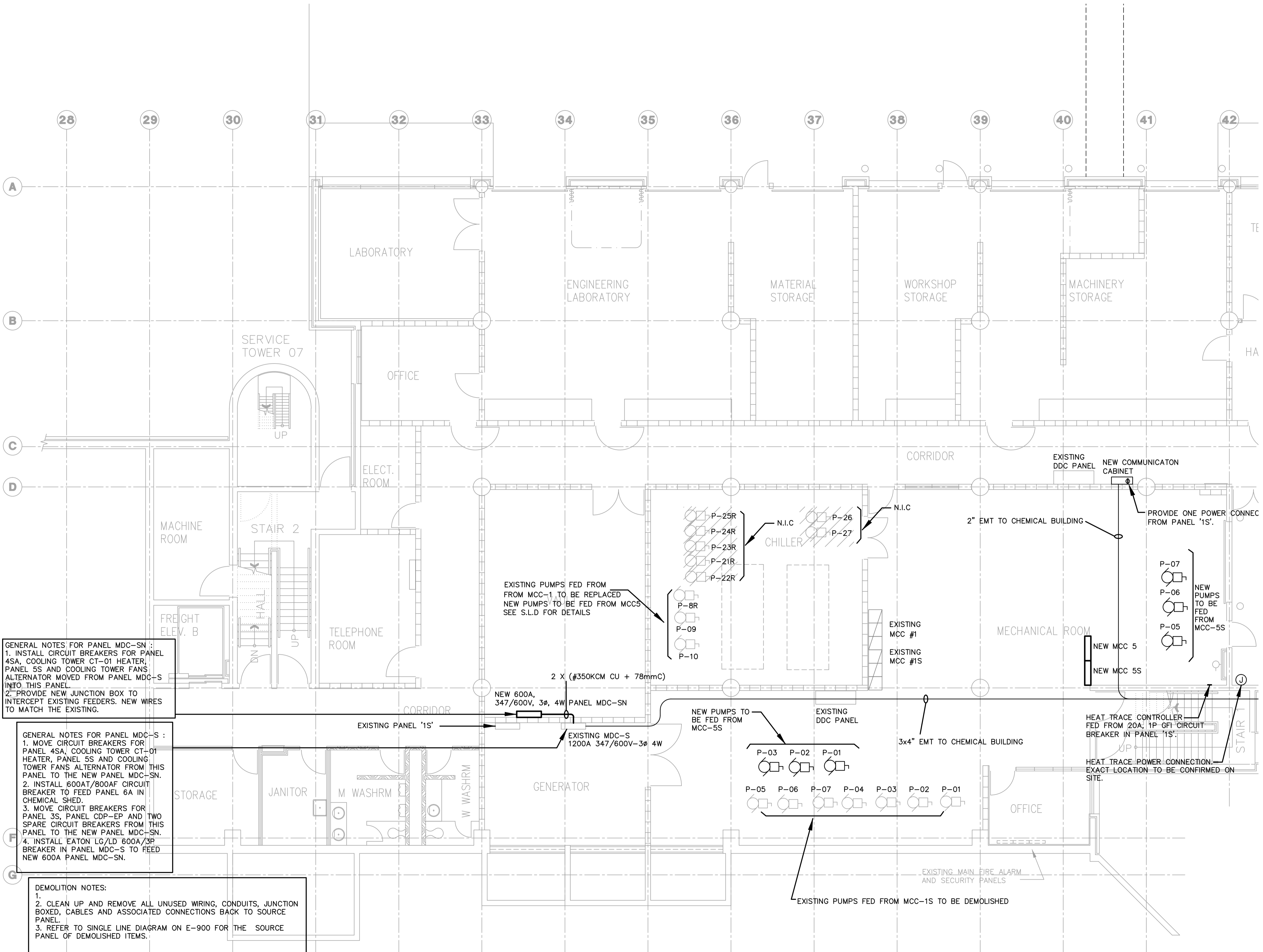
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Gestionnaire régionale, Services d'architecture et de génie, TPSGC

PREETIPAL PAUL

Drawing title/Titre du dessin

FIRST FLOOR PLAN

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R.075862.001	E-150	0

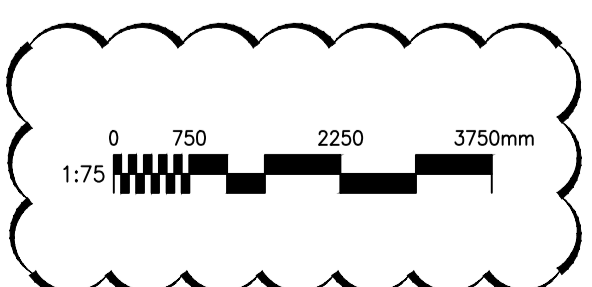


GENERAL NOTES FOR PANEL MDC-SN :
1. INSTALL CIRCUIT BREAKERS FOR PANEL 4SA, COOLING TOWER CT-01 HEATER, PANEL 5S AND COOLING TOWER FANS ALTERNATOR MOVED FROM PANEL MDC-S INTO THIS PANEL.
2. PROVIDE NEW JUNCTION BOX TO INTERCEPT EXISTING FEEDERS. NEW WIRES TO MATCH THE EXISTING.

GENERAL NOTES FOR PANEL MDC-S :
1. MOVE CIRCUIT BREAKERS FOR PANEL 4SA, COOLING TOWER CT-01 HEATER, PANEL 5S AND COOLING TOWER FANS ALTERNATOR FROM THIS PANEL TO THE NEW PANEL MDC-SN.
2. INSTALL 600AT/800AF CIRCUIT BREAKER TO FEED PANEL 6A IN CHEMICAL SHED.
3. MOVE CIRCUIT BREAKERS FOR PANEL 3S, PANEL CDP-EP AND TWO SPARE CIRCUIT BREAKERS FROM THIS PANEL TO THE NEW PANEL MDC-SN.
4. INSTALL EATON LG/LD 600A/3P BREAKER IN PANEL MDC-S TO FEED NEW 600A PANEL MDC-SN.

DEMOLITION NOTES:
1.
2. CLEAN UP AND REMOVE ALL UNUSED WIRING, CONDUITS, JUNCTION BOXED, CABLES AND ASSOCIATED CONNECTIONS BACK TO SOURCE PANEL.
3. REFER TO SINGLE LINE DIAGRAM ON E-900 FOR THE SOURCE PANEL OF DEMOLISHED ITEMS.

1 MECHANICAL ROOM LAYOUT
E-150 1:75



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**PACIFIC AGRI-FOOD
RESEARCH CENTRE**
MECH & ELEC RETROFIT

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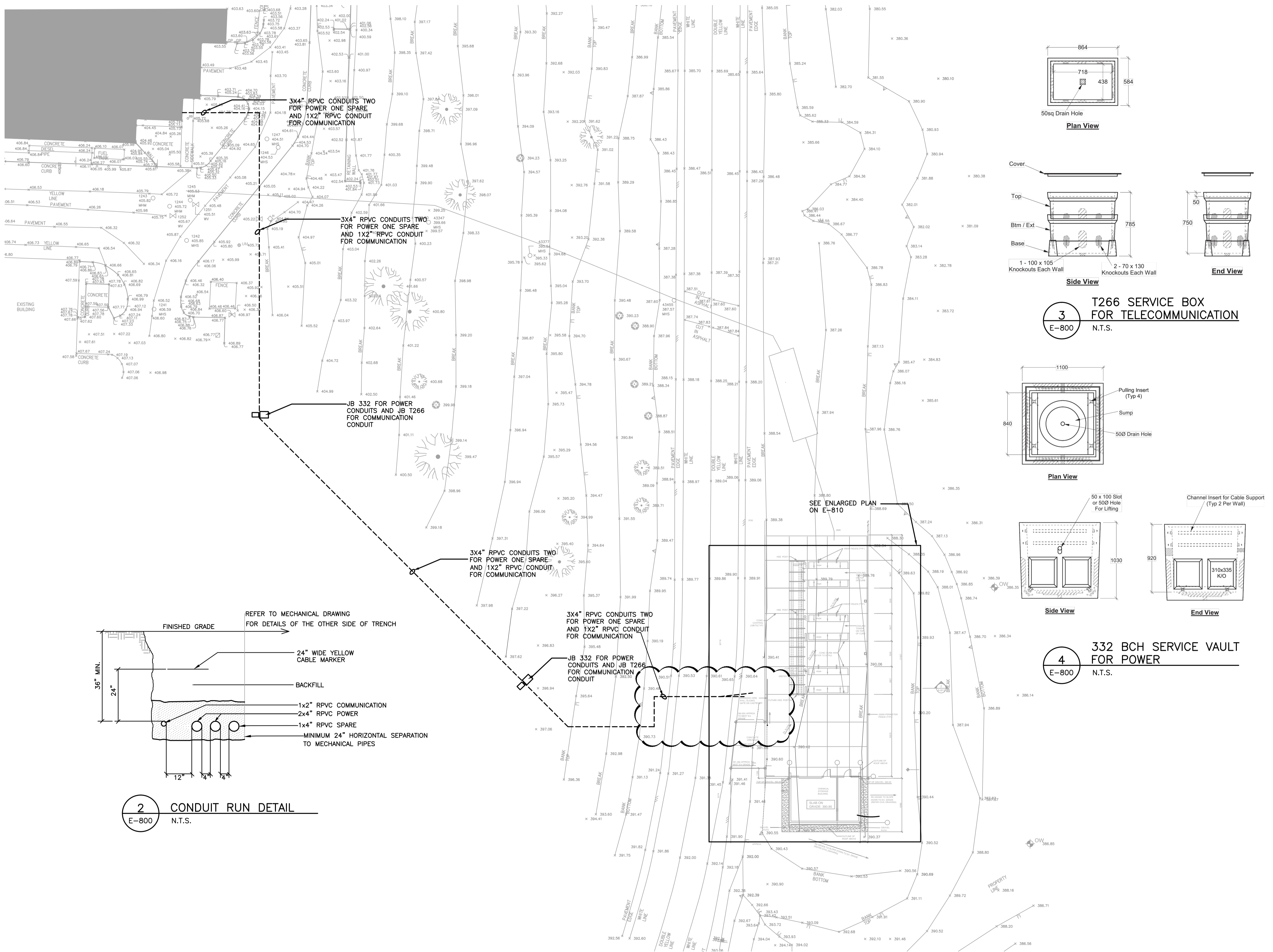
PWGSC Project Manager/Administrateur de Projets TPSGC
TOM DUNPHY

Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architectural et de génie, TPSGC
PREETIPAL PAUL

Drawing title/Titre du dessin

OVERALL SITE PLAN

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R.075862.001	E-800	0



1 OVERALL SITE PLAN
E-800 1:250

2 CONDUIT RUN DETAIL
E-800 N.T.S.

3 T266 SERVICE BOX
FOR TELECOMMUNICATION
E-800 N.T.S.

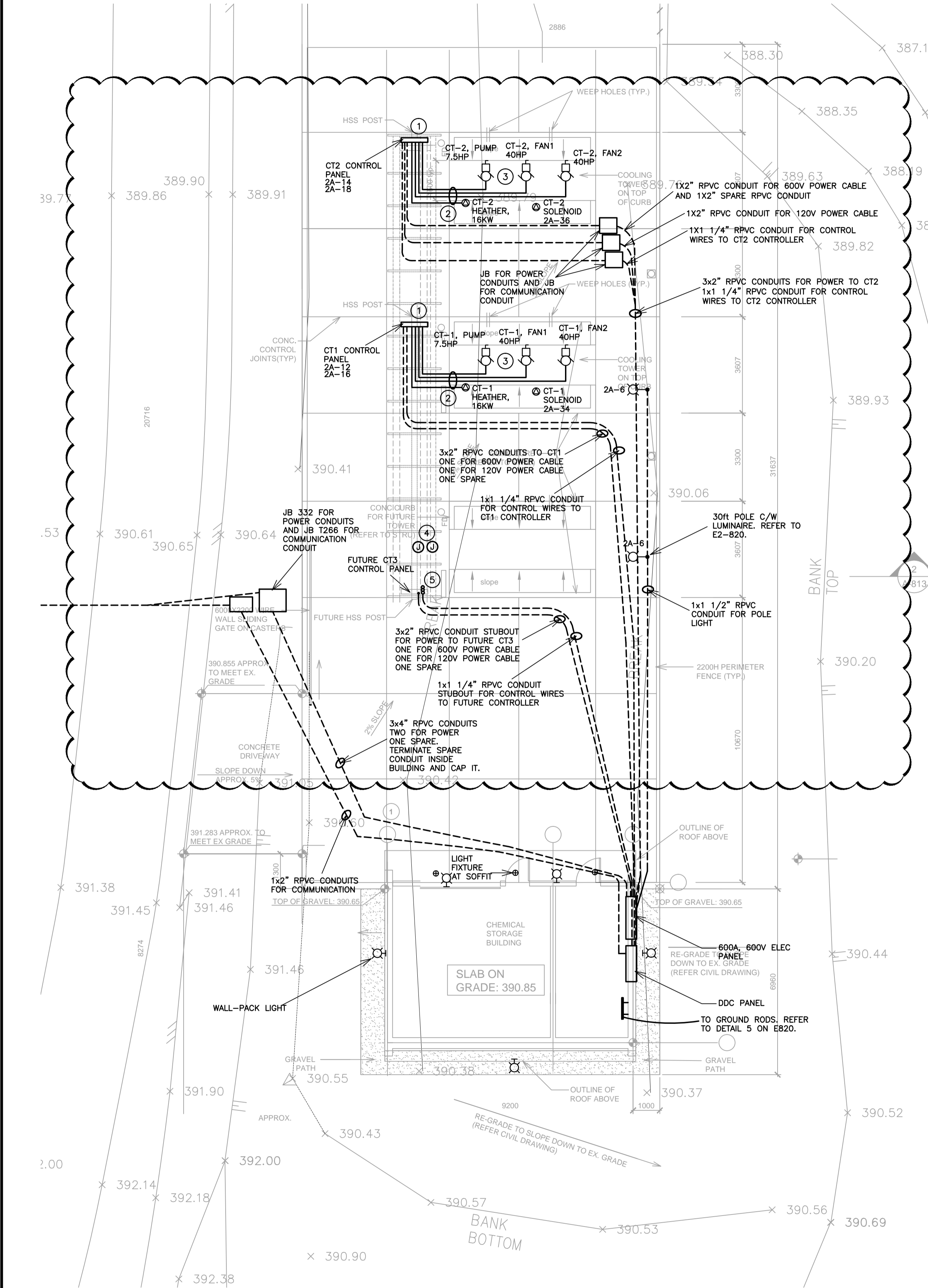
4 332 BCH SERVICE VAULT
FOR POWER
E-800 N.T.S.

50sq Drain Hole
Plan View

Side View
End View

Plan View

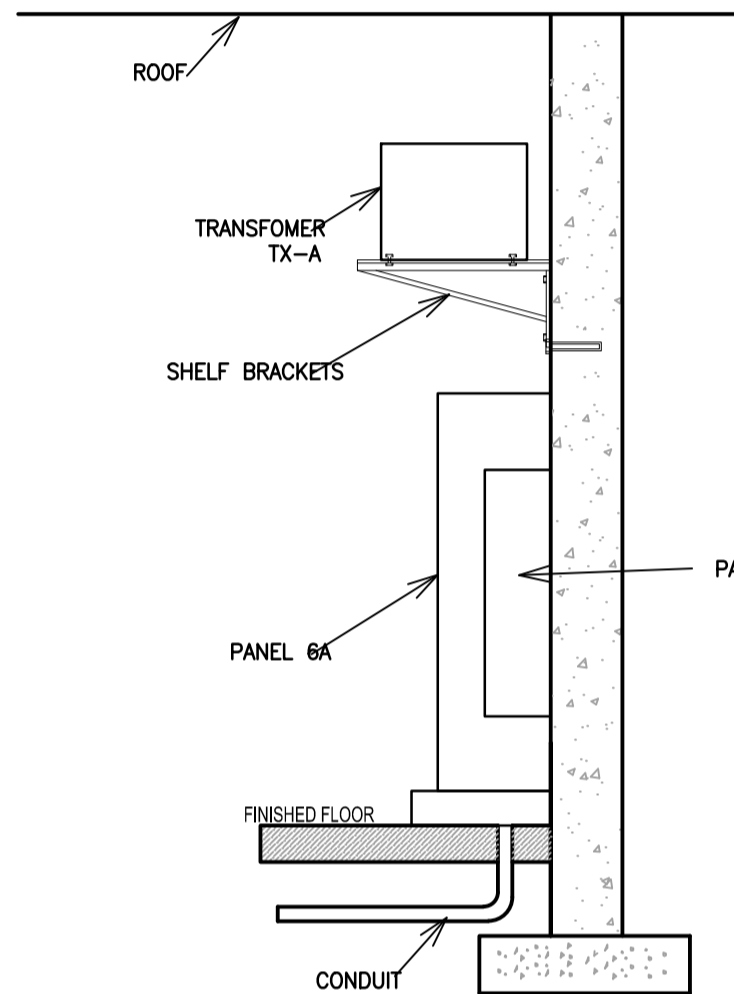
Side View
End View



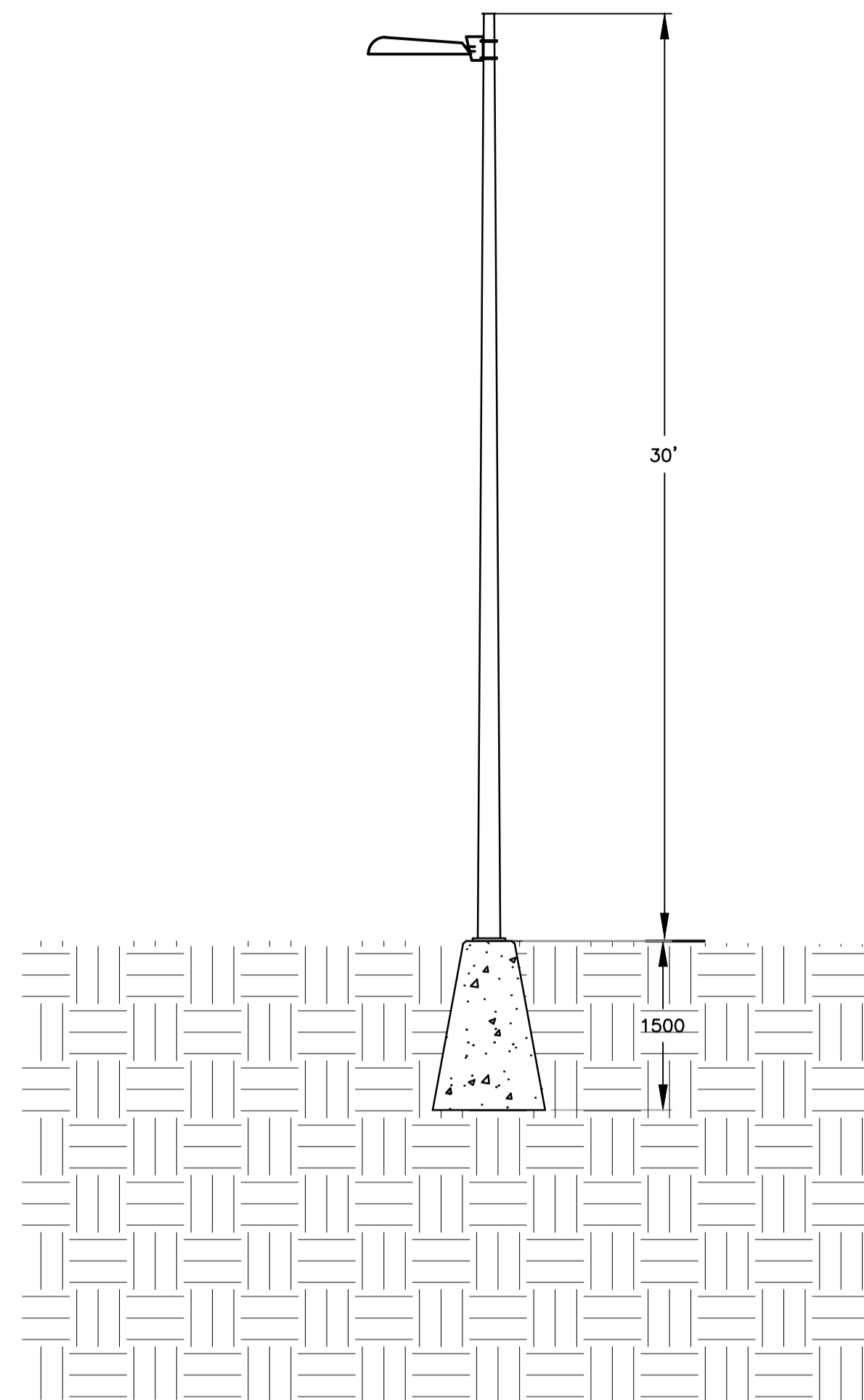
1 COOLING TOWER SITE PLAN
E-810 1:100

TYPICAL NOTES:

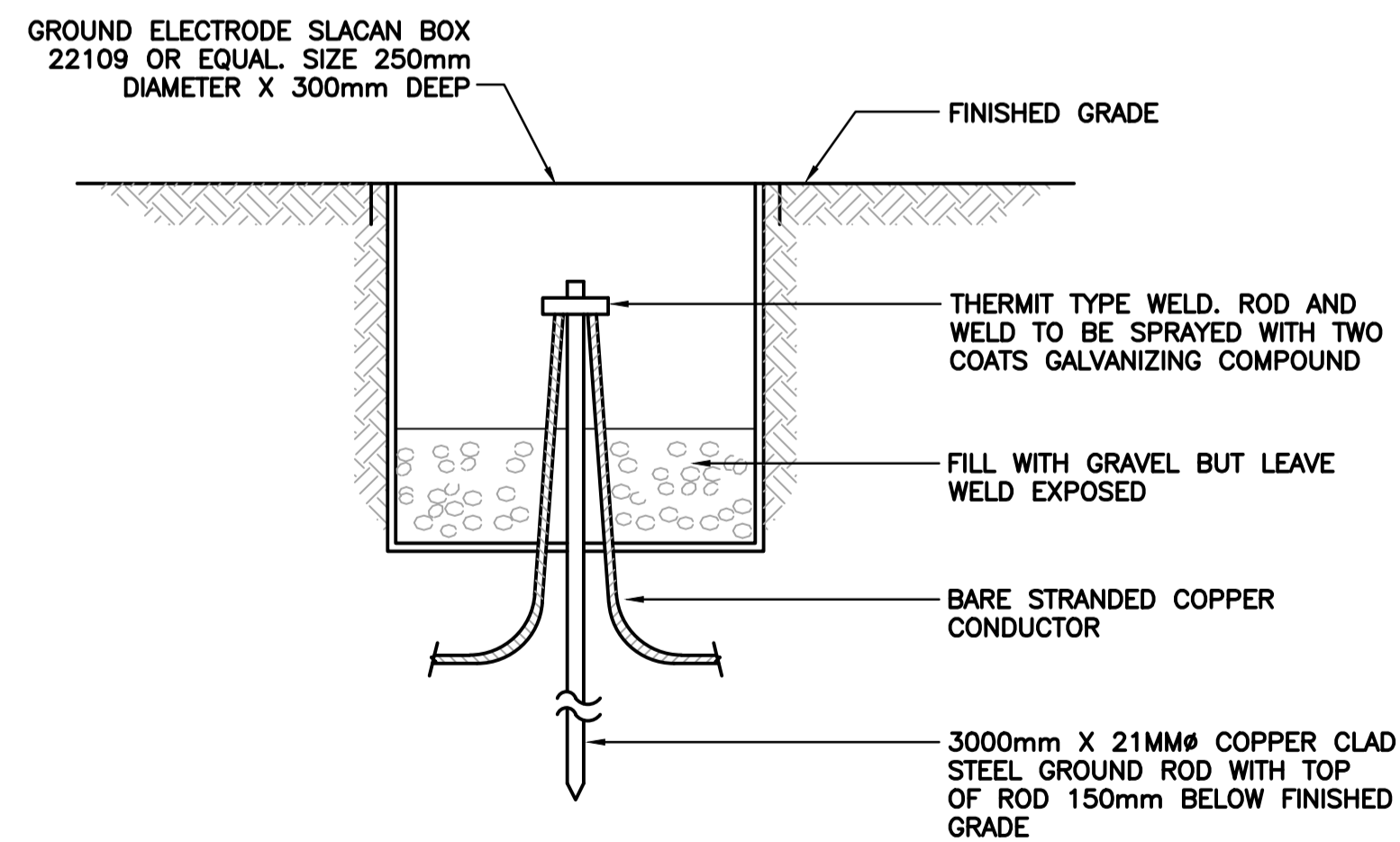
- 120V, 20A CIRCUIT FROM PANEL 2A TO VFD PANEL FOR ENCLOSURE EXHAUST FAN, HEATER AND ONE GENERAL RECEPTACLE INSIDE THE VFD ENCLOSURE.
- PROVIDE TECK CABLE FROM VFD CONTROL PANEL TO LOCAL DISCONNECT. REFER TO MECHANICAL EQUIPMENT SCHEDULE FOR CABLE SIZE. ALL EXTERIOR ELECTRICAL INSTALLATION TO BE WEATHER PROOF.
- PROVIDE A SET OF AUXILIARY CONTACT NO/NC WITH THE DISCONNECT TO DISABLE THE VFDs WHEN DISCONNECT IS OPEN. PROVIDE TECK 90 POWER CABLE FOR THE CONTACTOR.
- POWER CONNECTION FOR COOLING TOWER PIPE HEAT TRACE. EXACT LOCATION TO BE CONFIRMED ON SITE.
- CONDUIT STUBOUT AND CAP.



3 CONDUIT ENTERING BUILDING DETAIL
E-810 N.T.S.



2 POLE LIGHT DETAIL
E-810 N.T.S.



4 GROUND TEST WELL DETAILS
E-810 N.T.S.

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AND
AGRI-FOOD CANADA

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4200 97 HWY
SOUTH SUMMERLAND BC

PACIFIC AGRI-FOOD
RESEARCH CENTRE

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Gestionnaire régionale, Services d'architecture et de génie, TPSGC
PREETIPAL PAUL

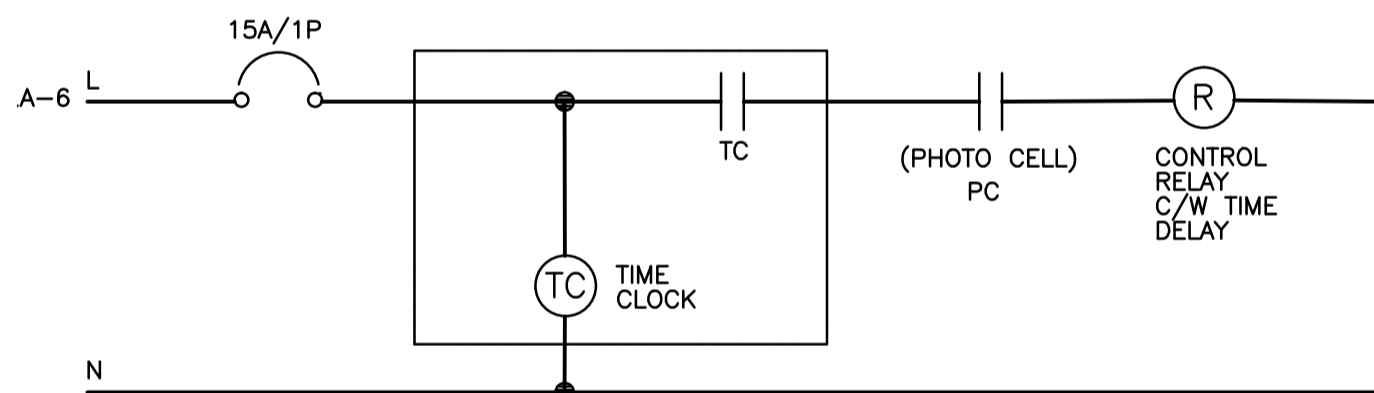
Drawing title/Titre du dessin

COOLING TOWER
SITE PLAN

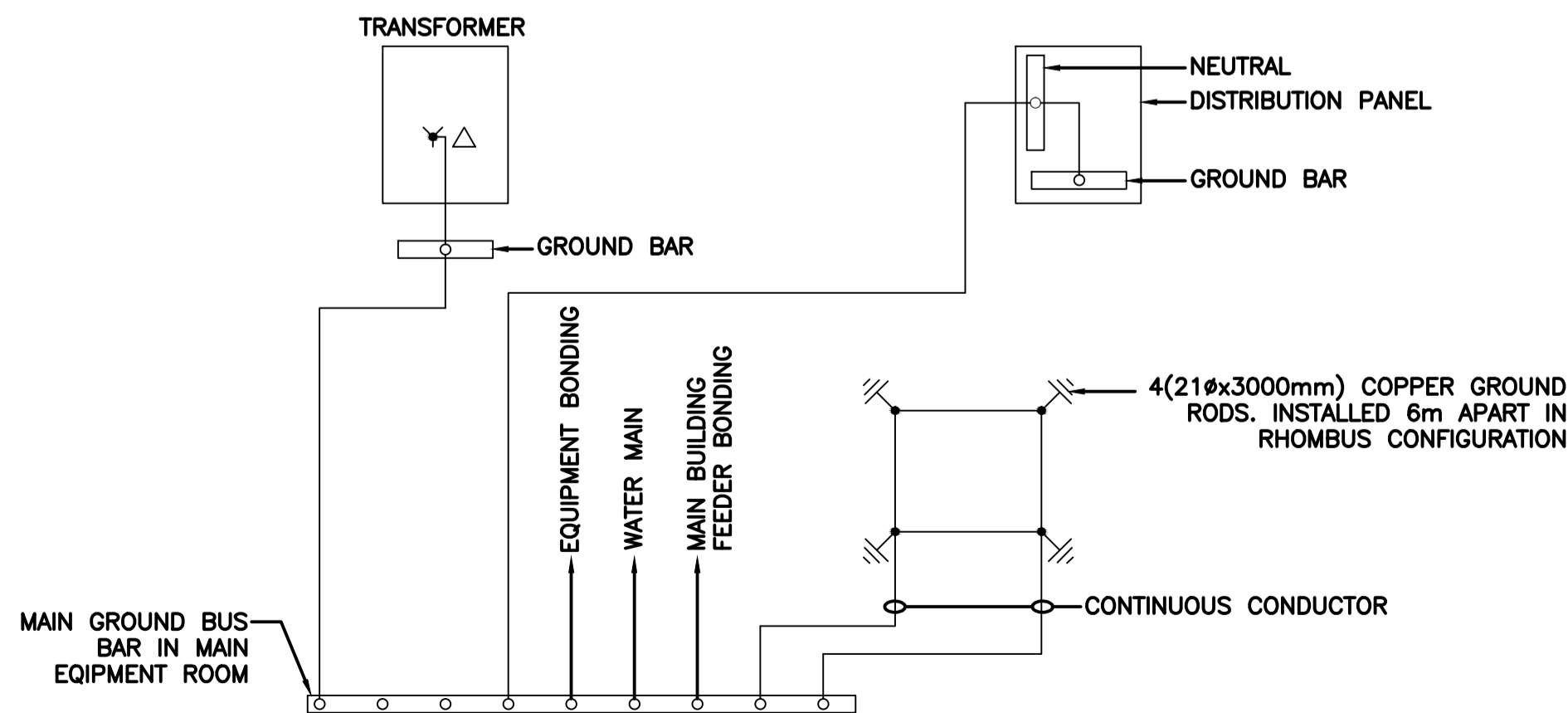
Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
R.075862.001	E-810	0

	TYPE	
	DESCRIPTION	LINEAR PENDANT LIGHT
	CATALOGUE	COOPER LIGHTING- METALUX 4SNLED LD4-46SL-LC-UNV-L8400-CD-1U -SCA
	VOLT/ BALLAST	120V
	LAMPS	NO. TYPE (EACH) 1 47W
	MOUNTING	PENDANT
	TYPE	
	DESCRIPTION	WALL PACK
	CATALOGUE	COOPER LIGHTING- ALL-PRO FSL2030LES
	VOLT/ BALLAST	120V
	LAMPS	NO. TYPE (EACH) 1 30W
	MOUNTING	WALL MOUNT
	TYPE	
	DESCRIPTION	RECESSED DOWNLIGHTS AT SOFFIT
	CATALOGUE	BEGA-6650LED
	VOLT/ BALLAST	120V
	LAMPS	NO. TYPE (EACH) 1 19.5W
	MOUNTING	RECESSED
	TYPE	
	DESCRIPTION	POLE LIGHT
	CATALOGUE	STREETWORKS GAN GALLEON LED GAN-AE-02-LED-U-T4FT-BK-ADJA SA1036-XX POLE: ARX5M20N BK-21
	VOLT/ BALLAST	120V
	LAMPS	NO. TYPE (EACH) 1 216W
	MOUNTING	POLE LIGHT
	REMARKS	COORDINATE WITH POLE SUPPLIER FOR TENON AND ADAPTOR BEFORE ORDERING

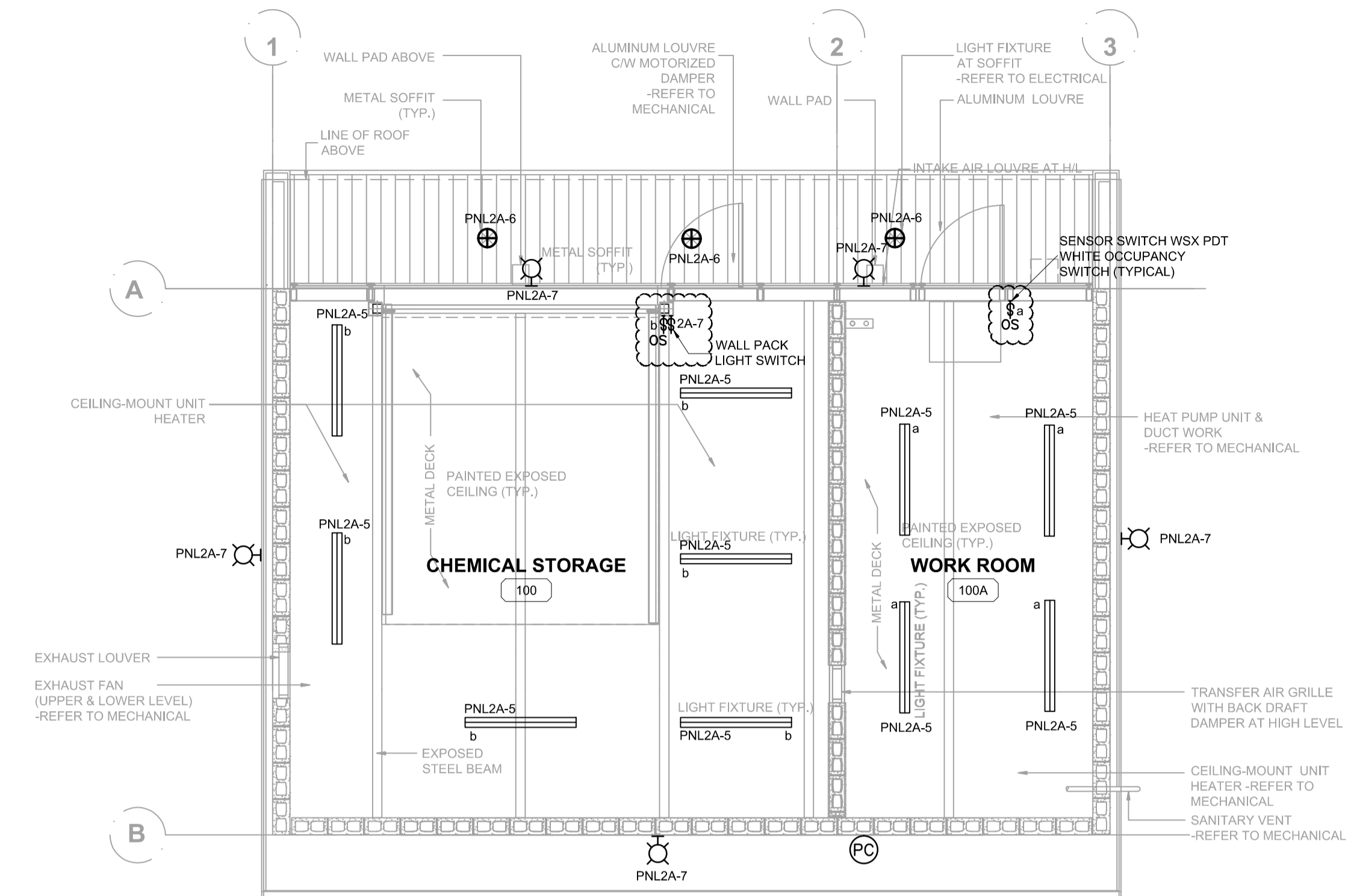
1 LUMINAIRE SCHEDULE
E-820 N.T.S.



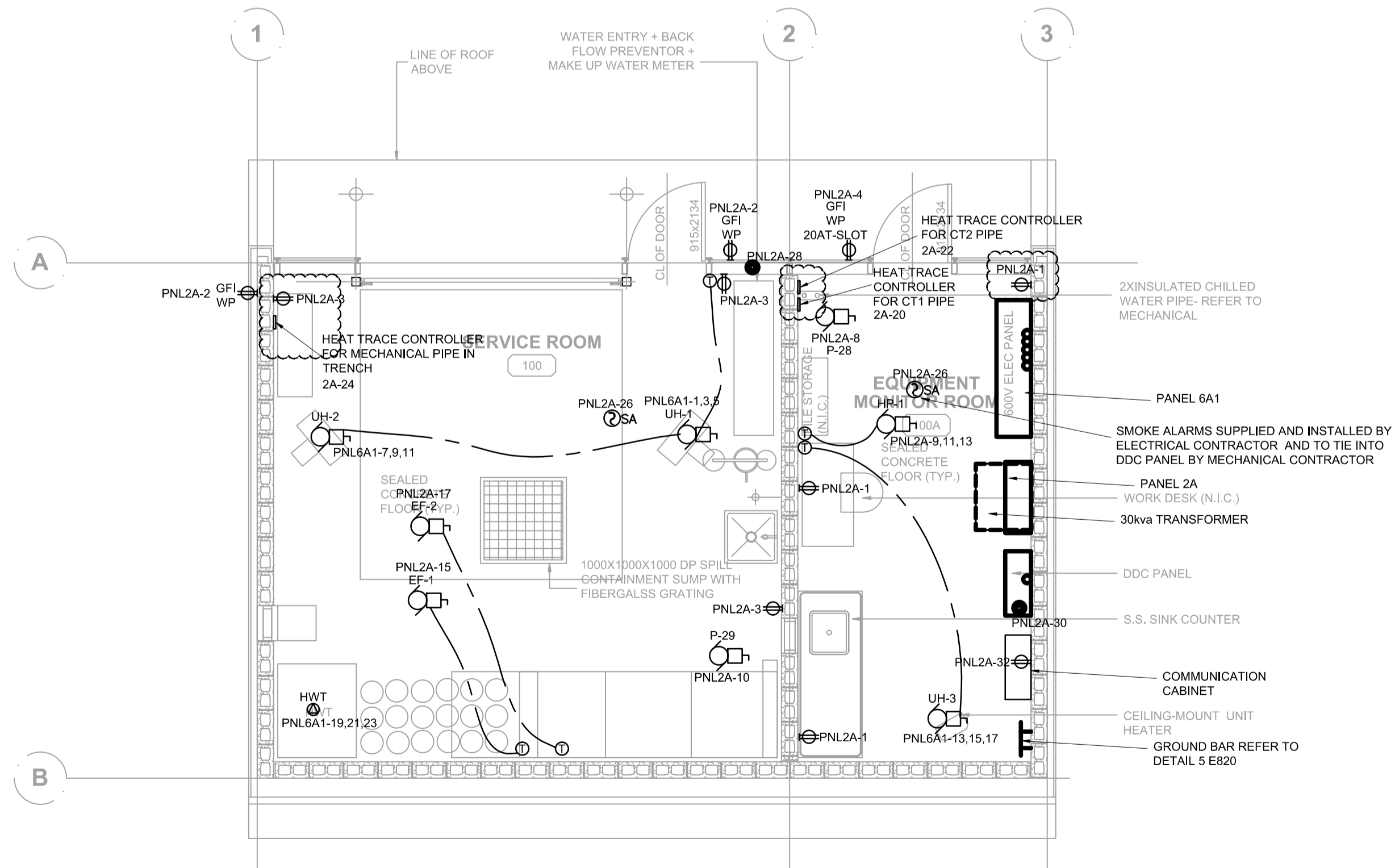
4 EXTERIOR LIGHTING CONTROL DIAGRAM
E-820 N.T.S.



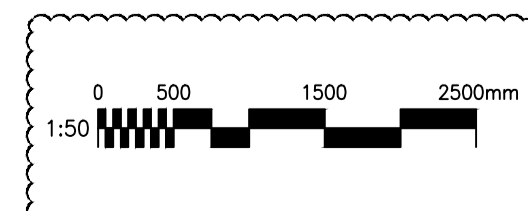
5 GROUNDING RISER DIAGRAM
E820 N.T.S.



2 CEILING PLAN
E-820 1:50



3 FLOOR PLAN
E-820 1:50



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CHEMICAL STORAGE
BUILDING

Project No./No. du
projet
R.075862.001

Sheet/Feuille
E-820

Revision no./
La Révision
no.
0