

EQUIPMENT STORAGE UPGRADE CLEARBROOK EQUIPMENT

ABBOTSFORD BRITISH COLUMBIA

PROJECT DIRECTORY

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ZONING ANALYSIS

City of Abbotsford - Zoning Bylaw No. 2400-2014

Section	Name	Zoning Requirement	Proposed
	Zone	Agricultural One Zone - A1	A1
	Site Area	-	76,280.028 m ²
	Proposed Uses	Agricultural Use	New - Machinery Storage - 293 m ² Existing - Office - 160 m ²
150	Off-Street Parking and Loading Regulations		
150.11	Required Off-Street Parking	1 space / 93 m ² of warehouse GFA = 3 spaces 1 space / 32 m ² of office GFA = 5 spaces Total = 8 spaces	New - Warehouse - 4 spaces Existing - Office - Existing to remain
210	Agricultural Zone - A1		
210.3	Development Regulations	Maximum Density - N/A Maximum Height - N/A Maximum Lot Coverage - 35%	Density - N/A Height - N/A Lot Coverage - 0.6%
210.4	Minimum Setbacks	Exterior Lot Line - 9.0m Interior Lot Line - 3.0m	Exterior Lot Line Setbacks > 9.0m Interior Lot Line Setback = 6.0m

BUILDING CODE ANALYSIS

National Building Code of Canada 2015

Part	Name	Required	Proposed
Div A - Part 1	Compliance		
1.3.3.3	Application of Part 9	3 storeys or less; building area less than 600 m ² ; Group F Div 2	1 storey; 285 m ² ; Group F Div 2
Div B - Part 9	Housing and Small Buildings		
9.5.2.1	Barrier Free Design	Designed in conformance with section 3.8 except 3.8.2.1 (1) (c) buildings that are not intended to be occupied on a daily or full-time basis.	Storage garage not intended to be an occupied space.
9.5.3.3	Storage Garages	Clear height minimum 2.0 m.	Clear height = 4.5 m
9.9.1.3	Occupant Load	Determined from Table 3.1.17.1, unless it can be shown that the area will be occupied by fewer persons.	Storage garage not intended to be an occupied space.
9.9.7.6	Travel Distance	Maximum 30 m to nearest means of egress.	Refer to plans.
9.10.8.11	Part 3 as Alternative	FRR of floors, roofs, loadbearing structure need not conform with this section if it conforms with Section 3.2. 3.3.3.78 Group F, up to 2 storeys Floors, Fire Separations: Non-Combustible construction of 45 min FRR if combustible Loadbearing Structure - Not less than supporting assembly	N/A - building is one storey Storage garage not required to be conditioned space.
9.10.14	Spatial Separation Between Buildings	South Face of Building Limiting Distance - 20 m Percentage of Unprotected Openings - 74% Exposing Building Face Construction Requirements - 1hr Noncombustible or combustible construction Noncombustible Cladding	South Face of Building Limiting Distance = 21 m Percentage of Openings = 54% Exposing Building Face Construction 1hr Combustible construction Noncombustible Cladding
9.36.1.3 (5)	Compliance and Application	Buildings not required to be conditioned spaces are exempt from the requirements of this section.	Storage garage not required to be conditioned space.

ARCHITECTURAL ABBREVIATIONS

AD	AREA DRAIN	OH	OVERHEAD DOOR
ADJ	ADJACENT	OH	OVERHEAD
AFF	ABOVE FINISHED FLOOR	OPNG	OPENING
ALUM	ALUMINUM	OPP	OPOSITE
ANOD	ANODIZED	OS	OWNER SUPPLIED
APPROX	APPROXIMATE	OWSJ	OPEN WEB STEEL JOIST
ARCH	ARCHITECTURAL		
AUTO	AUTOMATIC	P	PAINT (colour)
AVB	AIR VAPOUR BARRIER	PC	POWDER COAT
AVM	AIR VAPOUR MOISTURE BARRIER	PERP	PERPENDICULAR
		PH	PHASE
BLDG	BUILDING	PL	PROPERTY LINE
BM	BEAM	PLYWD	PLYWOOD
B/O	BOTTOM OF	PO	POLYSTYRENE
BOL	BOLLARD	POLY	POLYETHYLENE
		POLY-U	POLYURETHANE
CP	CAST IN PLACE	PREFAB	PREFABRICATED
CL	CENTRE LINE	PREFIN	PREFINISHED
CLG	CEILING	PS	PRESSED STEEL
CLR	CLEARANCE	PSFR	PRESSED STEEL FRAME
CONC	CONCRETE	PT	PRESSURE TREATED
CONST	CONSTRUCTION	PTD	PAINTED
CONT	CONTINUOUS		
C/W	COMPLETE WITH	R	RADIUS
		R/A	RETURN AIR
DEC	DEGREES	RD	ROOF DRAIN
DEMO	DEMOLITION	REINF	REINFORCED
DIA	DIAMETER	REF	REFERENCE
DIM	DIMENSION	REQD	REQUIRED
DL	DEAD LOAD	REV	REVISION
DN	DOWN	RM	ROOM
DP	DEPTH	RWL	RAINWATER LEADER
DR	DOOR		
DWG	DRAWING	S/A	SUPPLY AIR
		SAM	SELF-ADHERED MEMBRANE
EA	EACH	SC	SOLID CORE
EJ	EXPANSION JOINT	SCW	SOLID CORE WOOD
EL	ELEVATION	SD	SINGLE SWING DOOR
ELEC	ELECTRICAL	SF	SQUARE FEET
EP	ELECTRICAL PANEL	SHT	SHEET
EQ	EQUAL	SIA	SIAMSESE CONNECTION
EXIST	EXISTING	SIM	SIMILAR
EXP	EXPOSED	SMC	STEEL METAL CARRIER
EXP-S	EXPOSED STRUCTURE	SLG	SLAB ON GRADE
EXT	EXTERIOR	SP	STAND PIPE
EWS	EYE WASH STATION	SPEC	SPECIFICATION
		SQ	SQUARE
F	FRAME	SS	STAINLESS STEEL
FD	FLOOR DRAIN	STC	SOUND TRANSMISSION CLASS
FDN	FOUNDATION	STD	STANDARD
FE	FIRE EXTINGUISHER	STL	STEEL
FFE	FINISH FLOOR ELEVATION	STOR	STORAGE
FLR	FLOOR	STRUCT	STRUCTURAL
F/O	FACE OF	SUSP	SUSPENDED
F/C	FACE OF CONCRETE		
FOG	FACE OF GLAZING	TBD	TO BE DETERMINED
FOS	FACE OF STUD	TD	TRENCH DRAIN
FP	FRAME PROTECTION	TEL	TELEPHONE
FRR	FIRE RESISTANCE RATING	TEMP	TEMPORARY
FT	FOOT/FEET	T/O	TOP OF
		TOC	TOP OF CURB
G ()	GLASS (type)	TOF	TOP OF FLOOR
GA	GAUGE	TOF	TOP OF STEEL
GALV	GALVANIZED	TPO	THERMOPLASTIC POLYOLEFIN
GC	GENERAL CONTRACTOR	TS	TRANSITION STRIP
GL	GLASS / GLAZING	TS	TEMPERED SAFETY GLASS
GRD	GROUND	TYP	TYPICAL
GWB	GYP SUM WALL BOARD		
GYP	GYP SUM	UG	UNDER GROUND
		UNO	UNLESS NOTED OTHERWISE
HB	HOSE BIB	U/S	UNDERSIDE
HC	HOLLOW CORE		
HCW	HOLLOW CORE WOOD	VB	VAPOUR BARRIER
HDR	HORIZONTAL	VERT	VERTICAL
HDWR	HARDWARE	VIF	VERIFY IN FIELD
HM	HOLLOW METAL		
HOR	HORIZONTAL	W	WIDTH
HR	HOUR	WC	WALL COVERING
HSKG	HOUSEKEEPING	WD	WOOD
HSS	HOLLOW STEEL SECTION	WH	WATER HEATER
HT	HEIGHT	WP	WATERPROOF
HVAC	HEATING / VENTING / AIR CONDITIONING	WPR	WALL PROTECTION
HVY	HEAVY	WRM	WASHROOM
HW	HOT WATER	X-HVY	EXTRA HEAVY
ID	INSIDE DIAMETER		
INFO	INFORMATION		
INSUL	INSULATION		
INT	INTERIOR		
ISO	POLYISOCYANURATE		
L	LENGTH		
LL	LINE LOAD		
LVR	LOUVER		
m	METER		
MATL	MATERIAL		
MAX	MAXIMUM		
MECH	MECHANICAL		
MED	MEDIUM		
MEP	MECHANICAL ELECTRICAL AND PLUMBING		
MF	MINERAL FIBRE		
MFR	MANUFACTURER		
MIN	MINIMUM		
MISC	MISCELLANEOUS		
mm	MILLIMETER		
MP	METAL PANEL		
MTD	MOUNTED		
MTL	METAL		
NA	NOT APPLICABLE		
NF	NO FRAME (FRAMELESS)		
NIC	NOT IN CONTRACT		
No	NUMBER		
NTS	NOT TO SCALE		
OC	ON CENTRE		
OD	OUTSIDE DIAMETER		

DRAWING LIST - ARCHITECTURAL

Sheet Number	Sheet Name
A-001	COVER PAGE
A-100	SITE PLAN
A-101	FLOOR PLAN AND ROOF PLAN
A-201	EXTERIOR ELEVATIONS
A-301	BUILDING SECTIONS

DRAWING LIST - CIVIL

Sheet Number	Sheet Name
C-101	CIVIL DEMO AND PROPOSED SERVICING PLAN

DRAWING LIST - MECHANICAL

Sheet Number	Sheet Name
M-101	PLUMBING & HEATING FLOOR PLAN

DRAWING LIST - ELECTRICAL

Sheet Number	Sheet Name
E-101	ELECTRICAL SINGLE LINE DIAGRAM AND SITE PLAN
E-102	LIGHTING AND POWER FLOOR PLAN
E-103	ELEVATIONS AND DETAILS



Project No.: 220155

2020-10-02

Revision Number	Description/Description	Date/Date
5	ISSUED FOR TENDER	2020-10-02
4	ISSUED FOR TENDER	2020-07-31
3	ISSUED FOR 100% VE REVIEW	2020-06-25
2	ISSUED FOR 100% REVIEW	2018-03-12
1	ISSUED FOR 50% REVIEW	2017-12-18

Client/client

AGRICULTURE AND AGRI-FOOD CANADA

ABBOTSFORD, B.C.

Project title/Titre du projet

EQUIPMENT STORAGE UPGRADE CLEARBROOK EQUIPMENT

Consultant Signature Box Only

Designed by/Concept par	Approved by/Approuvée par
Designer	Approver
Drawn by/Dessiné par	
Author	

PW5GC Project Manager/Administrateur de Projets TP5GC

PATRICK TRUONG
 PW5GC, Regional Manager, Architectural and Engineering Services / Gestionnaire régional, Services d'architecture et de génie, TP5GC

PREETIPAL PAUL

Drawing title/Titre du dessin

COVER PAGE

Project No./No. du projet	Sheet/ Feuille	Revision no./ Révision no.
R.089617.001	A-001	5



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Client/client: AGRICULTURE AND AGRI-FOOD CANADA

ABBOTSFORD, B.C.

EQUIPMENT STORAGE UPGRADE CLEARBROOK EQUIPMENT

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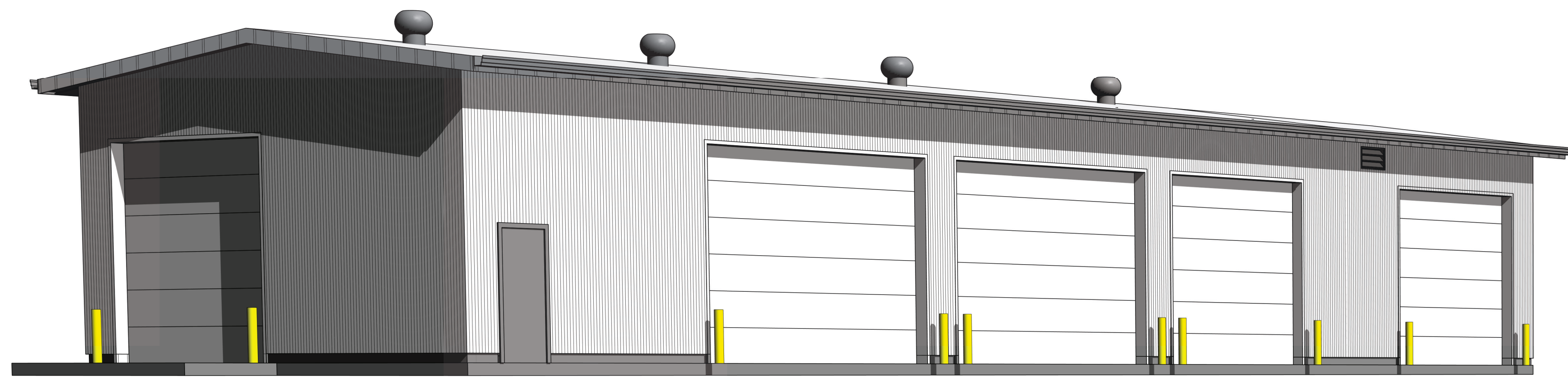
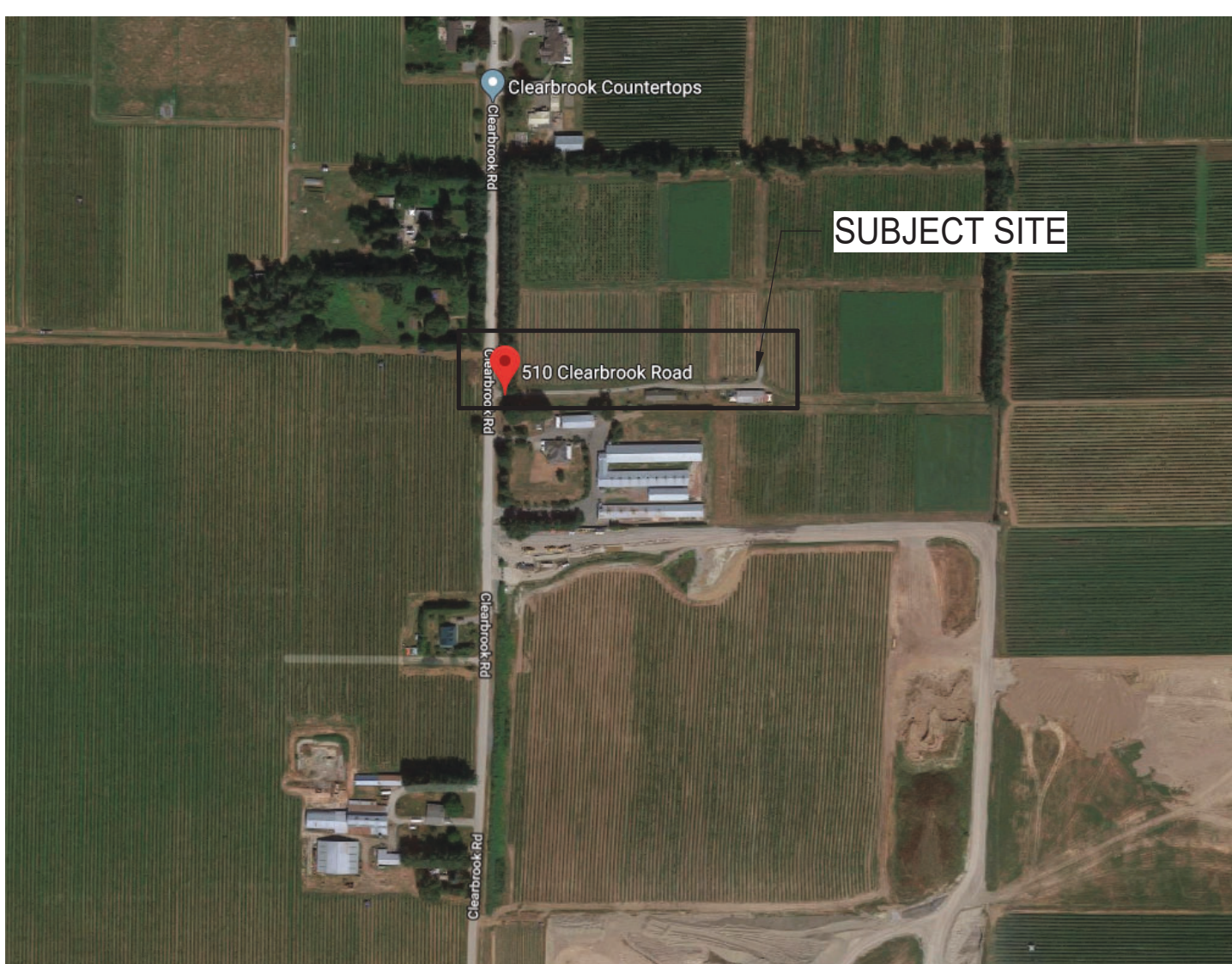
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PATRICK TRUONG / PWSSC, Regional Manager, Architectural and Engineering Services / Gestionnaire régionale, Services d'architecture et de génie, TPSSC

PREETIPAL PAUL

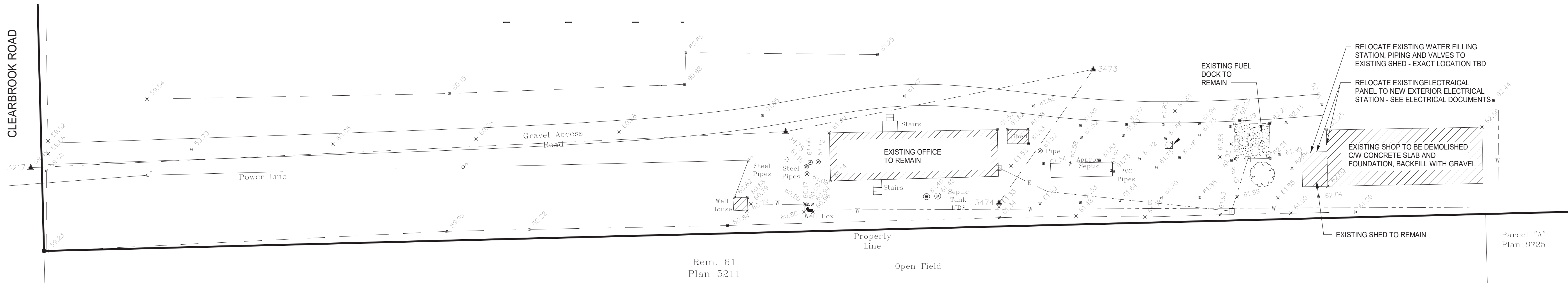
SITE PLAN

Project No./No. du projet	Sheet/Feuille	Revision no./Lo Révision no.
R.089617.001	A-100	5

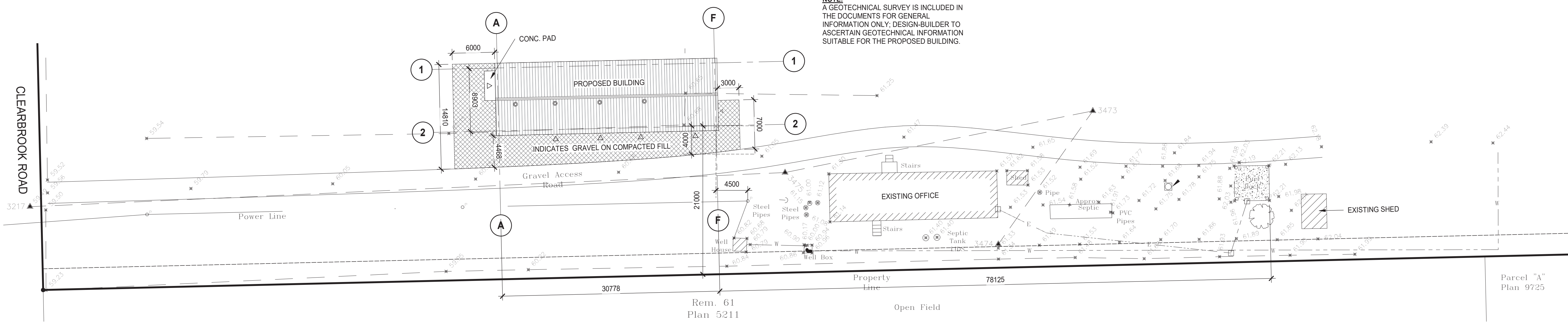


LEGAL DESCRIPTION
 FIXED LEGAL DESCRIPTION: LOT: 60 SEC: 5 TWN: 16 PLAN: NWP05211
 FREEFORM LEGAL DESCRIPTION: LOT 60 SECTION 5 TOWNSHIP 16 PLAN NWP05211 NWD

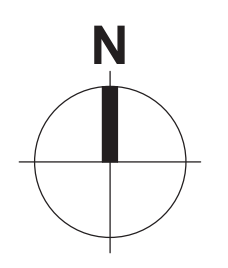
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 510 CLEARBROOK RD, ABBOTSFORD, B.C., V2T5W9



1 SITE PLAN - DEMOLITION
 SCALE: 1:300



2 SITE PLAN
 SCALE: 1:300





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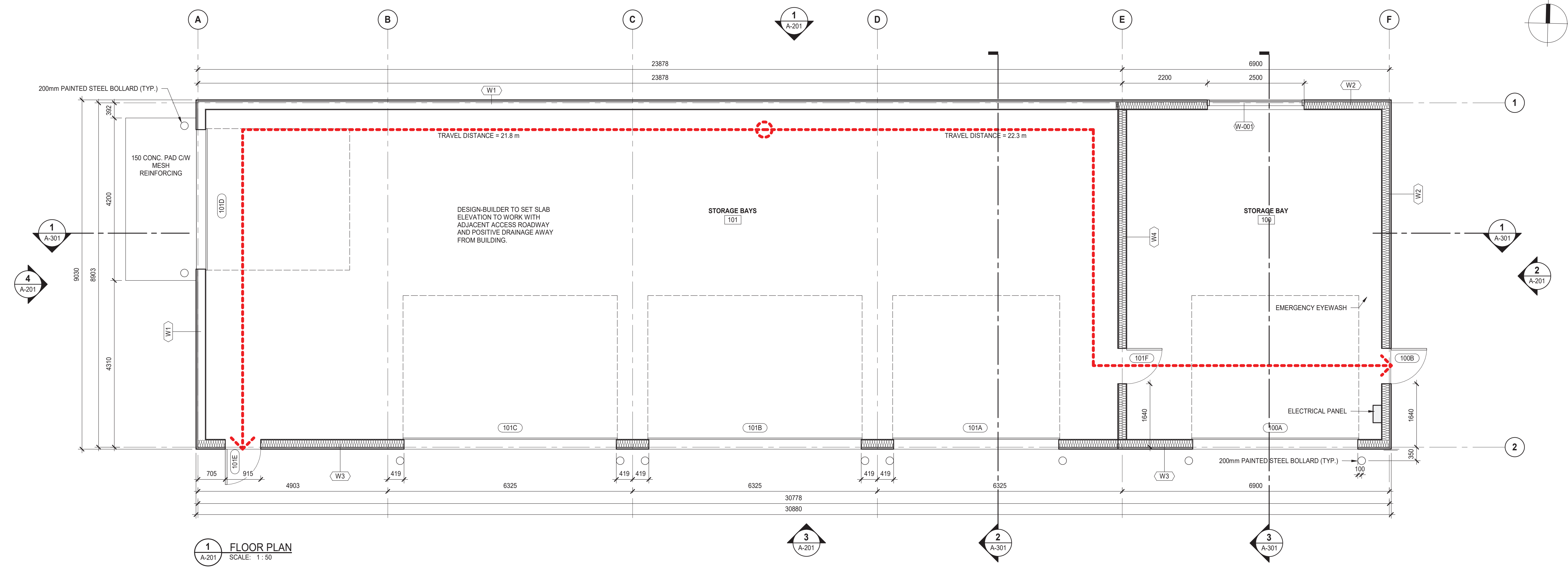
Project title/Titre du projet: **ABBOTSFORD, B.C.**

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 Designed by/Concept par: **KC** Approved by/Approuvée par: **DP**
 Drawn by/Dessiné par: **KC**
 PWSSC Project Manager/Administrateur de Projets TPSSC: **PATRICK TRUONG**
 PWSSC Regional Manager, Architectural and Engineering Services/Gestionnaire régional, Services d'architecture et de génie, TPSSC: **PREETIPAL PAUL**

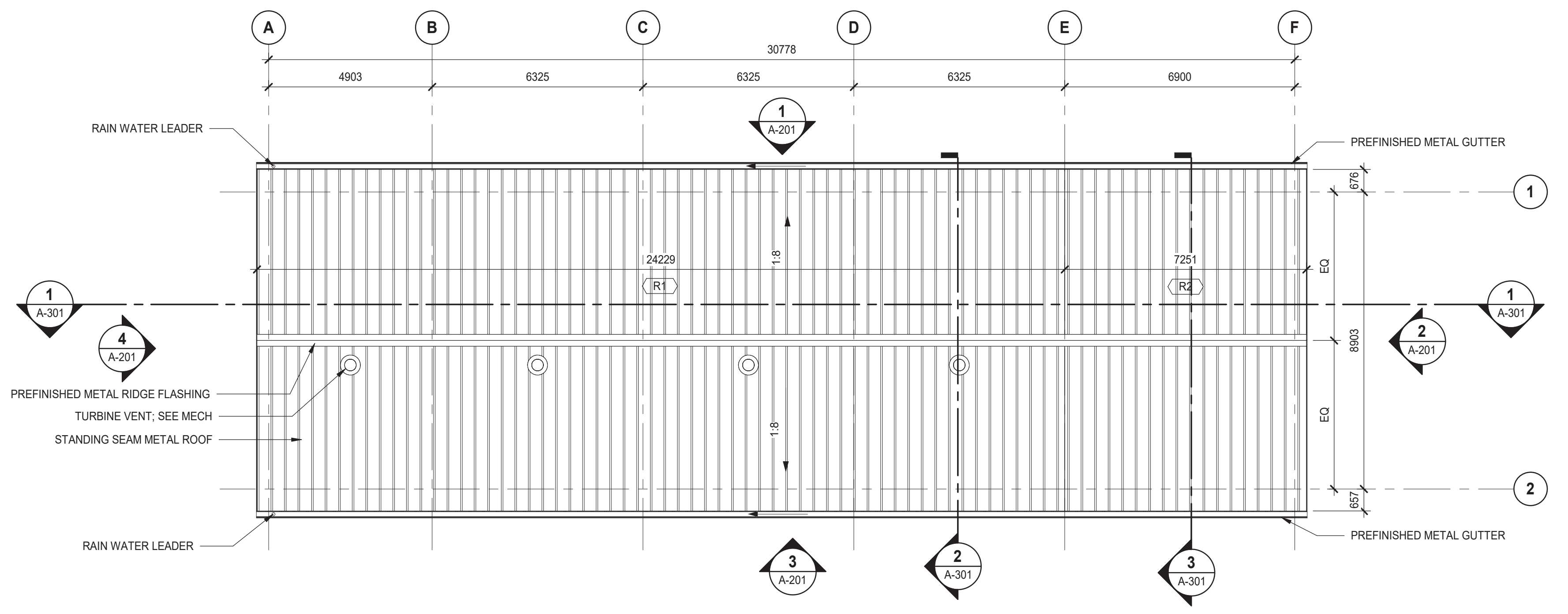
FLOOR PLAN AND ROOF PLAN

Project No./No. du projet: R.089617.001 Sheet/Feuille: **A-101** Revision no./Révision no.: **5**

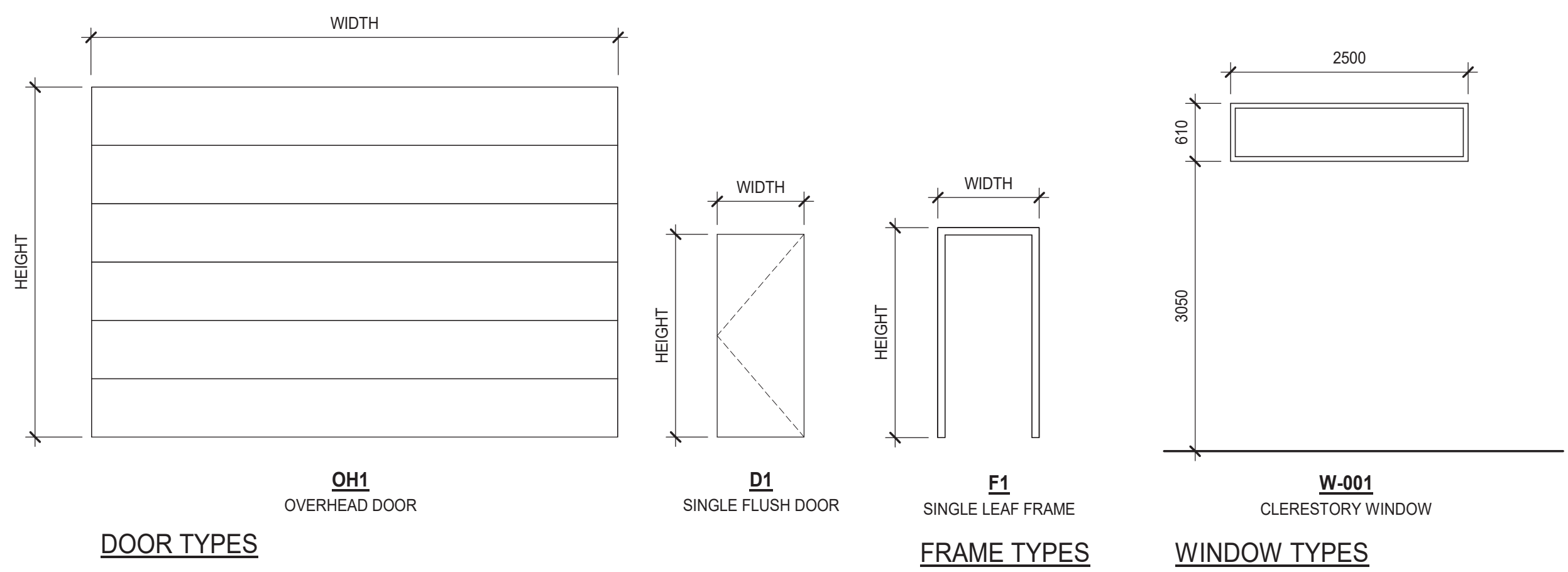


MARK	WALL ASSEMBLY	FIRE RATING	FRR REFERENCE	COMMENTS
W1	CORRUGATED METAL CLADDING AIR BARRIER PT PLYWOOD SHEATHING PER STRUCTURAL SPECIFICATIONS WOOD STUDS PER STRUCTURAL SPECIFICATIONS 16mm PLYWOOD			
W2	CORRUGATED METAL CLADDING AIR BARRIER PT PLYWOOD SHEATHING PER STRUCTURAL SPECIFICATIONS WOOD STUDS PER STRUCTURAL SPECIFICATIONS R20 BATT INSULATION IN STUD SPACE POLY VAPOUR BARRIER 16mm PLYWOOD			
W3	CORRUGATED METAL CLADDING AIR BARRIER FIRE RETARDANT WALL SHEATHING WOOD STUDS PER STRUCTURAL SPECIFICATIONS R20 MINERAL WOOL INSULATION IN STUD SPACE POLY VAPOUR BARRIER 1 LAYER 16mm TYPE X GYPSUM BOARD	1 HR	UL-U348	*ACCEPTABLE PRODUCT: LOUISIANA-PACIFIC CORP - TYPE LP FLAMEBLOCK 1-SIDED
W4	16mm PRESSURE TREATED PLYWOOD PT PLYWOOD SHEATHING PER STRUCTURAL SPECIFICATIONS WOOD STUDS PER STRUCTURAL SPECIFICATIONS R20 BATT INSULATION IN STUD SPACE POLY VAPOUR BARRIER 16mm PRESSURE TREATED PLYWOOD CARRY WALL FULL HEIGHT			

Mark	Description	Comments
R1	STANDING SEAM METAL ROOF AIR BARRIER 16mm T&G ROOF PLYWOOD SHEATHING WOOD TRUSSES PER STRUCTURAL	
R2	STANDING SEAM METAL ROOF AIR BARRIER 16mm T&G ROOF PLYWOOD SHEATHING WOOD TRUSSES PER STRUCTURAL R30 BATT INSULATION IN TRUSS SPACE POLY VAPOUR BARRIER 16 mm PLY SHEATHING	



DOOR NO.	TYPE	DOOR PARAMETERS				FRAME PARAMETERS				OPENING PARAMETERS		COMMENTS		
		DIMENSIONS		THICKNES S	MATL	FINISH	COLOUR	FRAME TYPE	MATL	FINISH	COLOUR		OPENING FRR	OPENING HARDWARE GROUP
		WIDTH	HEIGHT											
100A	OH1	4267	3658	35	HM	PTD	*	-	PS	PTD	*	-	REFER TO SPEC	* ARCHITECT TO SELECT FROM STANDARD RANGE
100B	D1	915	2134	45	HM	PTD	*	F1	PS	PTD	*	-	REFER TO SPEC	* ARCHITECT TO SELECT FROM STANDARD RANGE
101A	OH1	4267	3658	35	HM	PTD	*	-	PS	PTD	*	-	REFER TO SPEC	* ARCHITECT TO SELECT FROM STANDARD RANGE
101B	OH1	5486	3658	35	HM	PTD	*	-	PS	PTD	*	-	REFER TO SPEC	* ARCHITECT TO SELECT FROM STANDARD RANGE
101C	OH1	5486	3658	35	HM	PTD	*	-	PS	PTD	*	-	REFER TO SPEC	* ARCHITECT TO SELECT FROM STANDARD RANGE
101D	OH1	3608	3658	35	HM	PTD	*	-	PS	PTD	*	-	REFER TO SPEC	* ARCHITECT TO SELECT FROM STANDARD RANGE
101E	D1	915	2134	45	HM	PTD	*	F1	PS	PTD	*	-	REFER TO SPEC	* ARCHITECT TO SELECT FROM STANDARD RANGE
101F	D1	915	2134	45	HM	PTD	*	F1	PS	PTD	*	-	REFER TO SPEC	* ARCHITECT TO SELECT FROM STANDARD RANGE



20/09/2020 1:42:38 PM



Project No.: 220155

2020-10-02

5	ISSUED FOR TENDER	2020-10-02
4	ISSUED FOR TENDER	2020-07-31
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1	ISSUED FOR 50% REVIEW	2017-12-18

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AGRICULTURE AND AGRI-FOOD CANADA

ABBOTSFORD, B.C.

Project title/Titre du projet

EQUIPMENT STORAGE UPGRADE CLEARBROOK EQUIPMENT

Consultant Signature Box Only

Designed by/Concept par: **KC** / Approved by/Approuvée par: **DP**

Drawn by/Dessiné par: **KC**

PWSSC Project Manager/Administrateur de Projets TPSGC

PATRICK TRUONG

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PREETIPAL PAUL

Drawing title/Titre du dessin

EXTERIOR ELEVATIONS

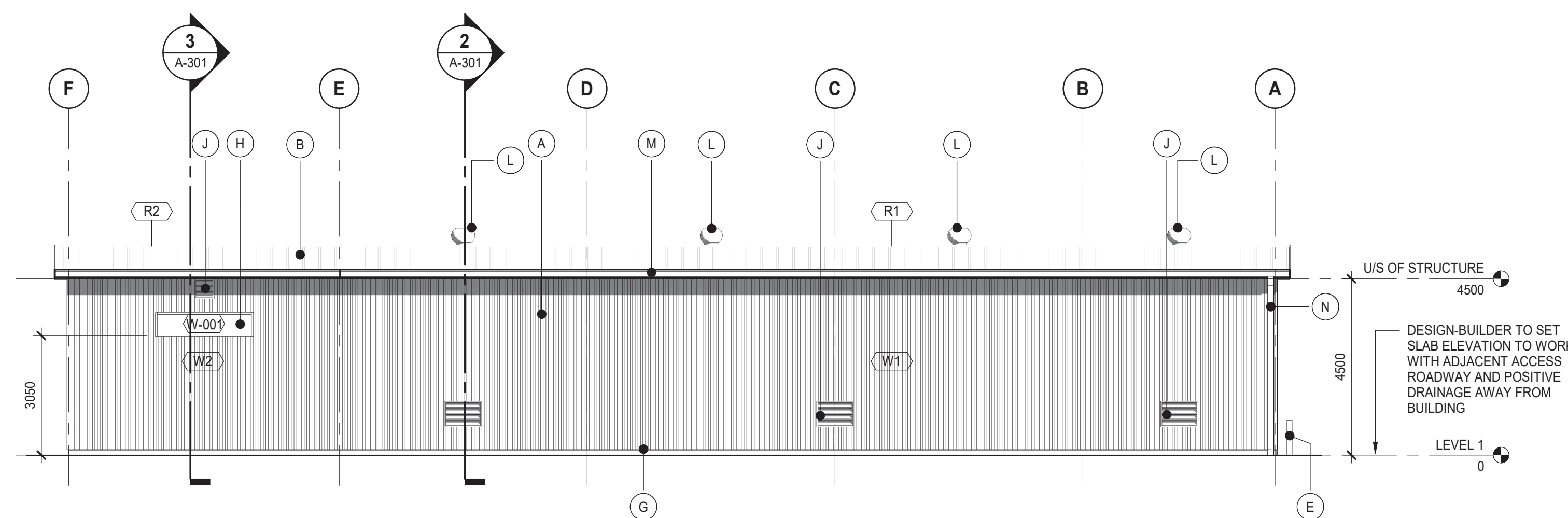
Project No./No. du projet: R.089617.001

Sheet/Feuille: A-201

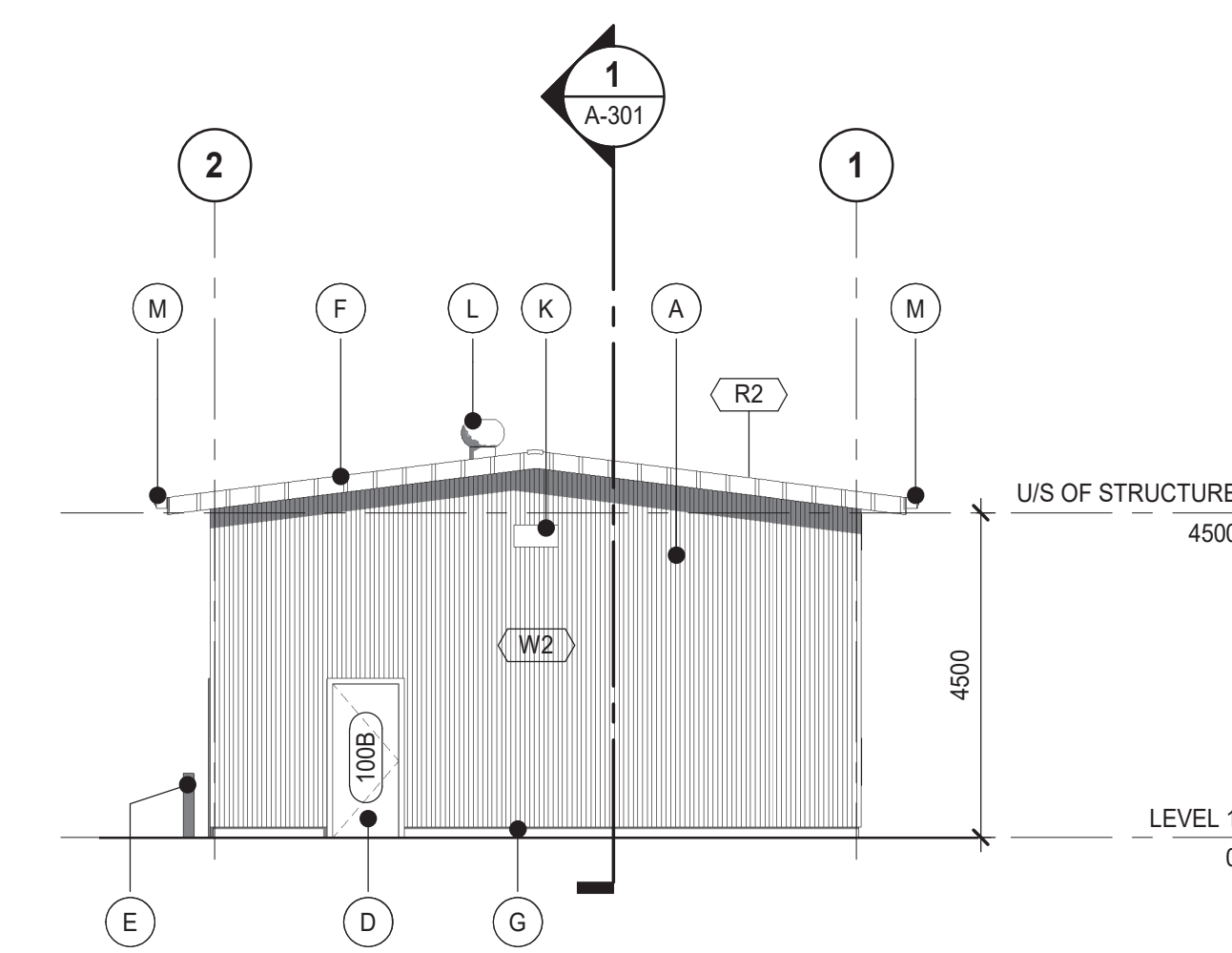
Revision no./Révision no.: 5

MARK	MATERIAL
A	CORRUGATED METAL PANEL SIDING, COLOUR*
B	STANDING SEAM METAL ROOF, COLOUR*
C	PREFINISHED STEEL SECTIONAL OVERHEAD DOOR, COLOUR*
D	METAL DOOR, REFER TO DOOR SCHEDULE
E	200 mm PAINTED STEEL BOLLARD, COLOUR - YELLOW
F	METAL FASCIA, COLOUR*
G	CONCRETE CURB
H	ALUMINUM WINDOW
J	MECHANICAL LOUVRE (SEE MECH)
K	LIGHT (SEE ELEC)
L	TURBINE VENT CW REMOVABLE BIRD SCREEN (SEE MECH)
M	PREFINISHED METAL GUTTER
N	PREFINISHED METAL DOWNSPOUT - SIZE, NUMBER AND LOCATION TO BE IDENTIFIED IN SHOP DRAWINGS FOR REVIEW BY ARCHITECT

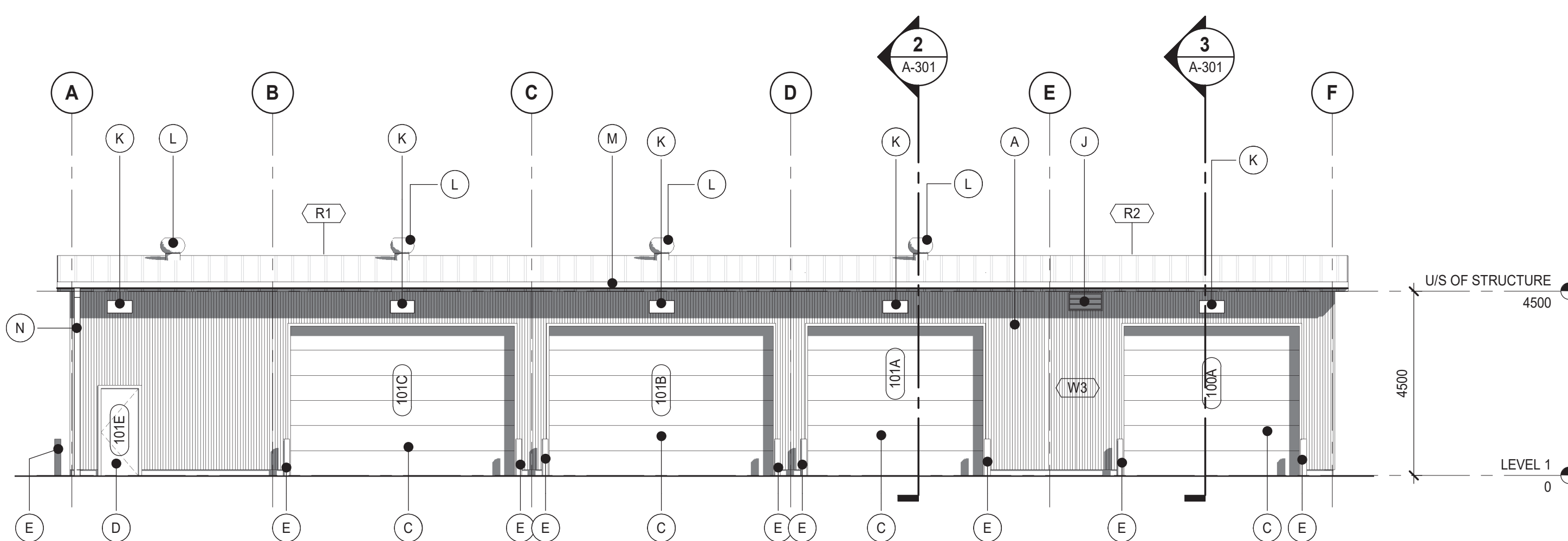
* COLOURS OF ALL FINISH MATERIALS TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD RANGE OF COLOURS



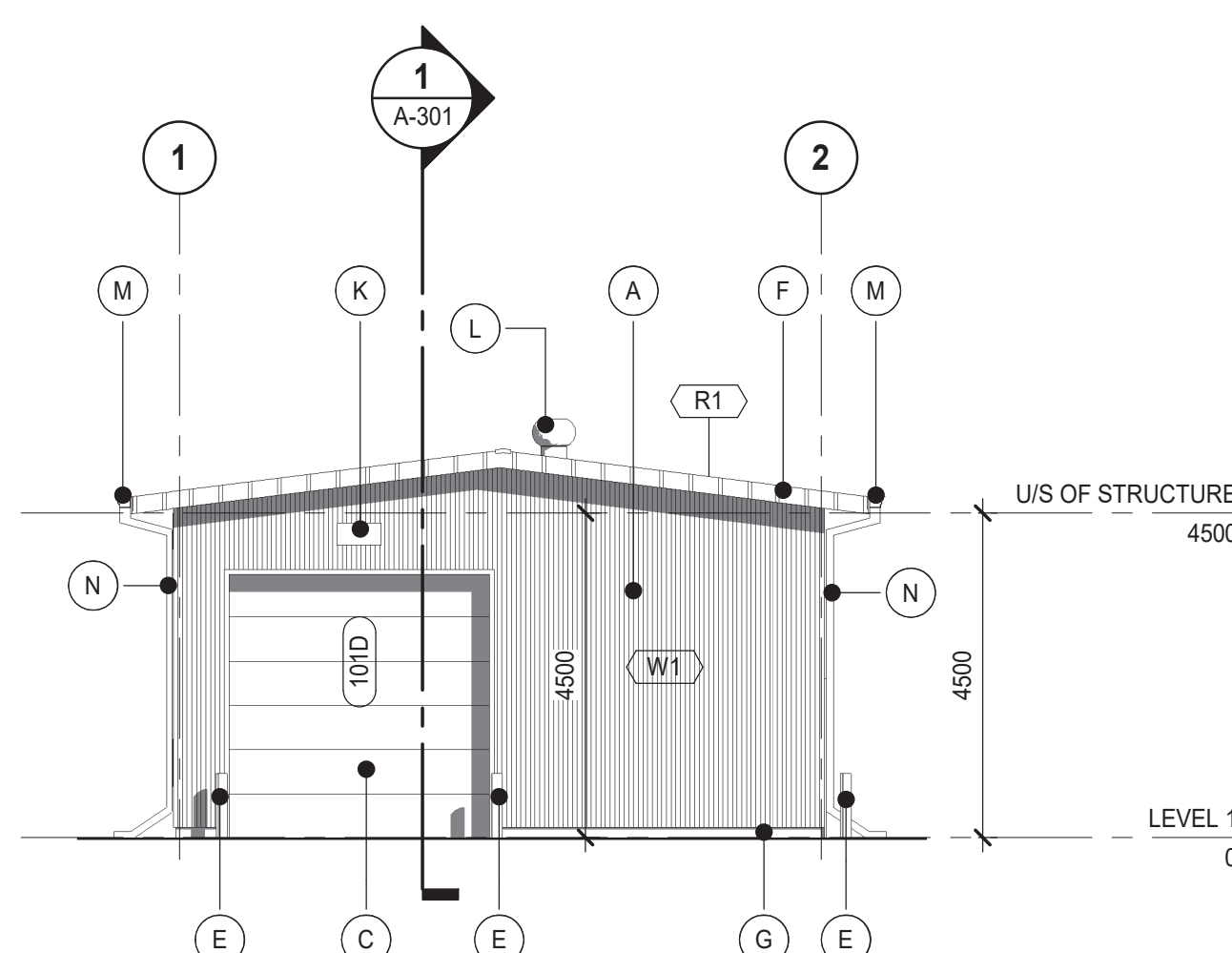
1 NORTH ELEVATION
SCALE: 1:100



2 EAST ELEVATION
SCALE: 1:100



3 SOUTH ELEVATION
SCALE: 1:100



4 WEST ELEVATION
SCALE: 1:100



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2020-10-02

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AGRICULTURE AND AGRI-FOOD CANADA

ABBOTSFORD, B.C.

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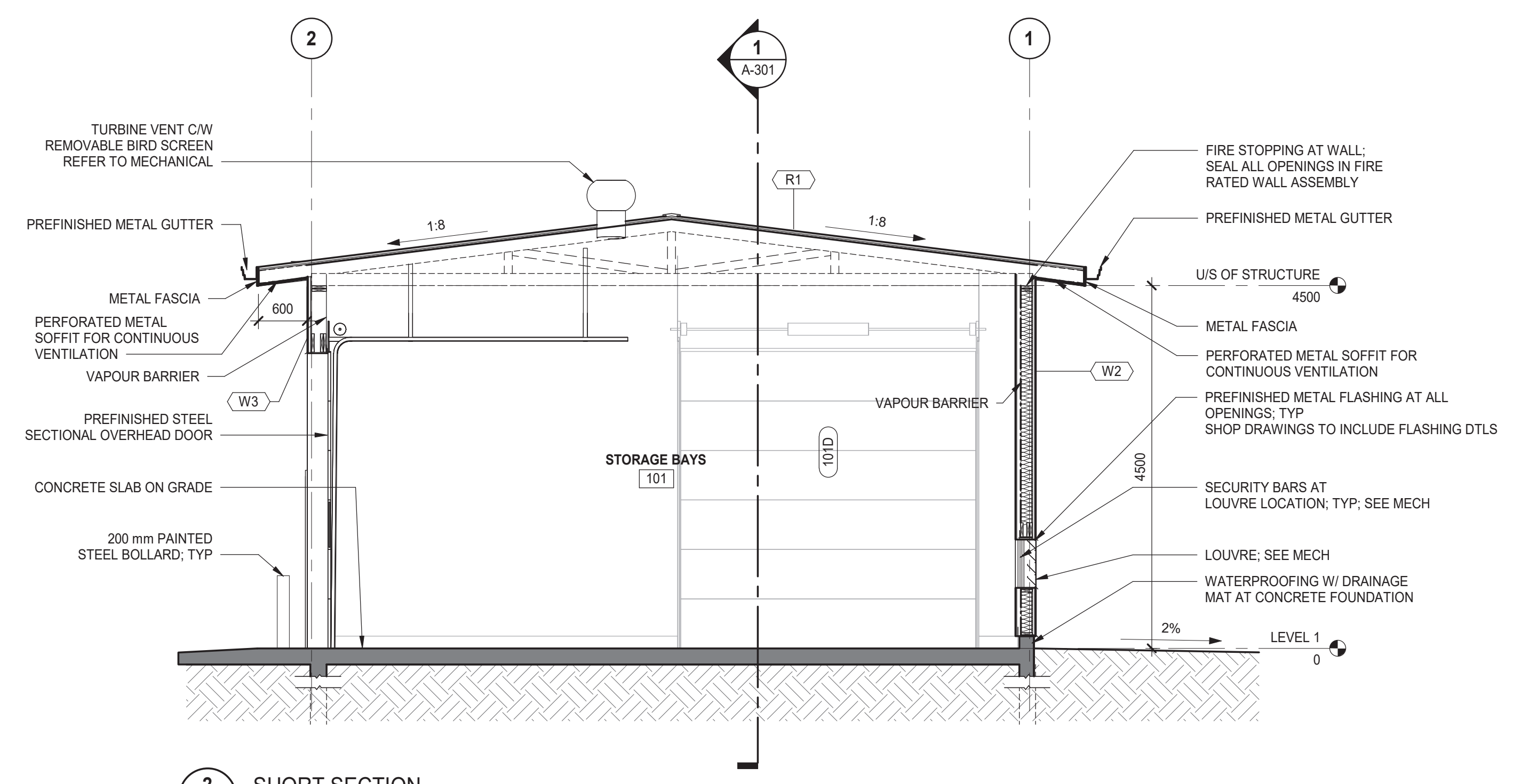
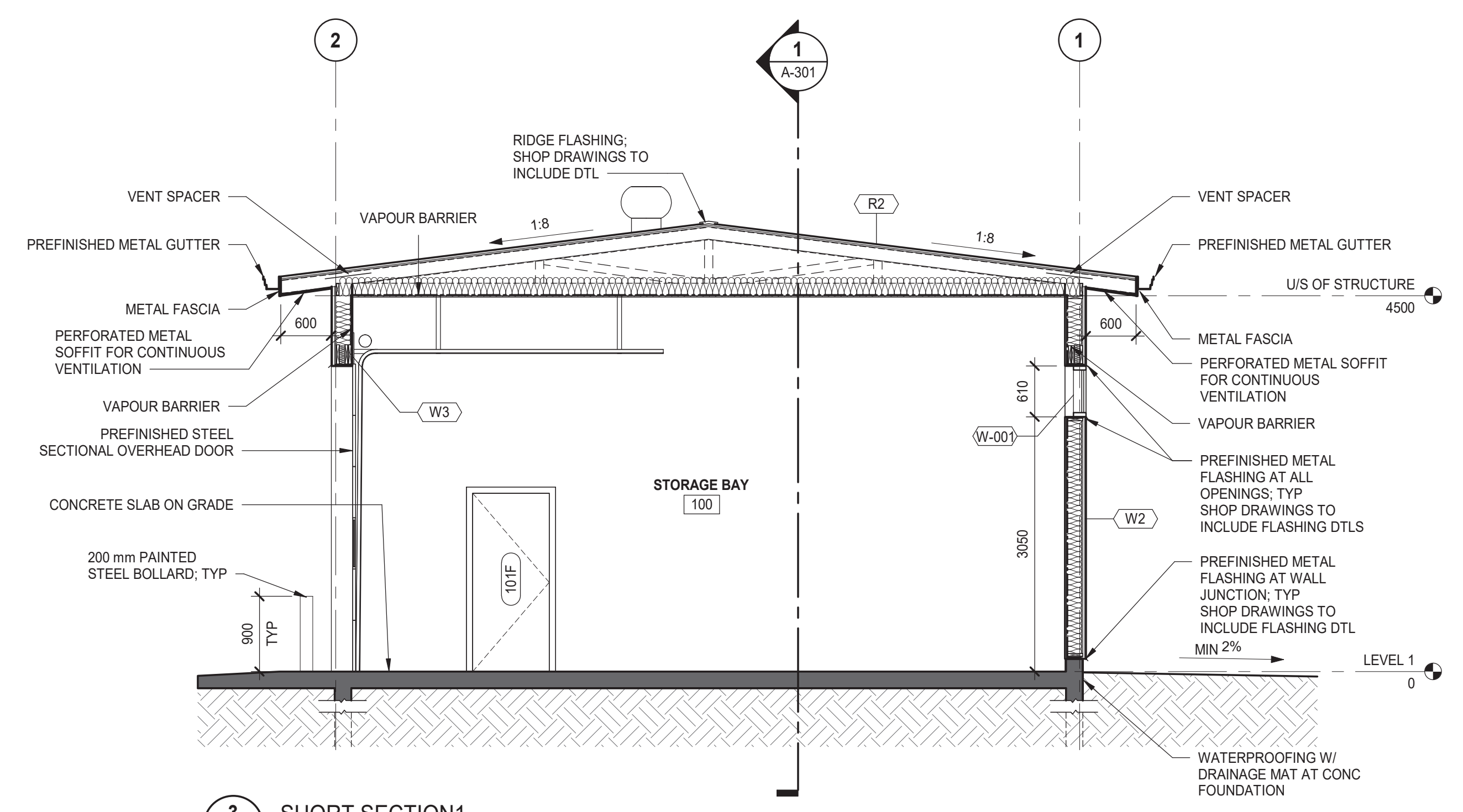
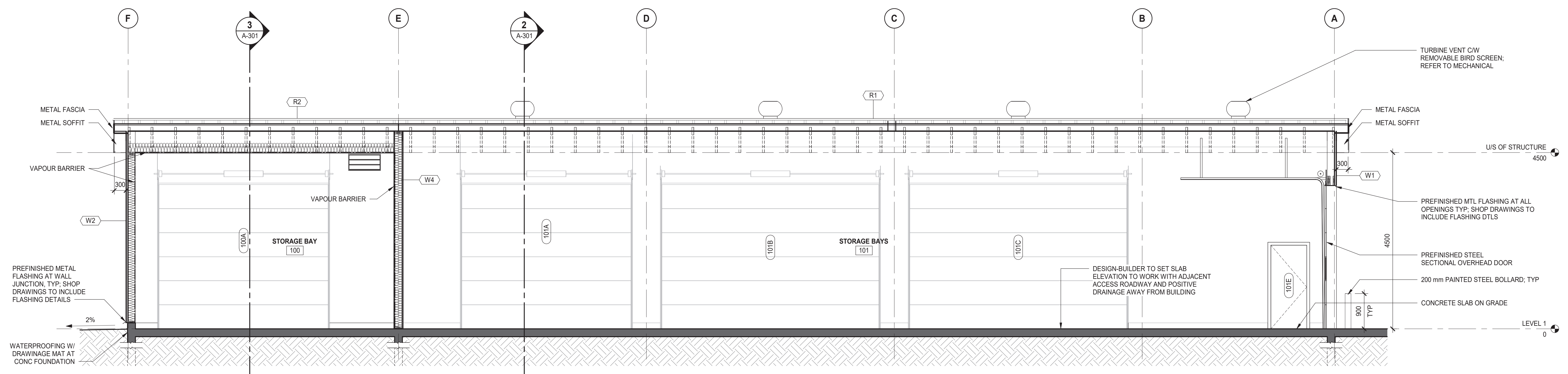
Consultant Signature Box Only

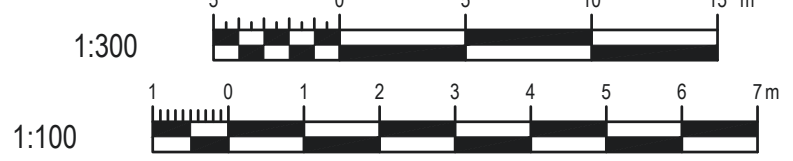
Designed by/Concept par KC	Approved by/Approuvée par DP
Drawn by/Dessiné par KC	
PWSSC Project Manager/Administrateur de Projets TPSSC PATRICK TRUONG	
PWSSC Regional Manager, Architectural and Engineering Services/ Gestionnaire régionale, Services d'architecture et de génie, TPSSC PREETIPAL PAUL	

Drawing title/Titre du dessin

BUILDING SECTIONS

Project No./No. du projet R.089617.001	Sheet/Feuille A-301	Revision no./ La Révision no. 5
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Revision Number	Description/Description	Date/Date
5	RE-ISSUED FOR TENDER	2020-10-22
4	RE-ISSUED FOR TENDER	2020-10-02
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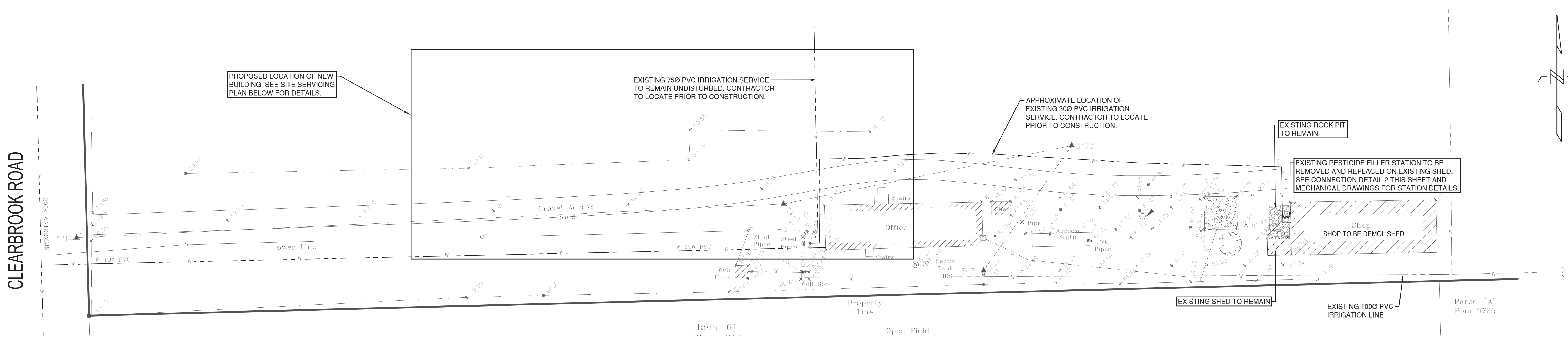
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Approved by/Approuvée par: **DP**
Drawn by/Dessiné par: **SG**
PWSSC Project Manager/Administrateur de Projets TPSSC

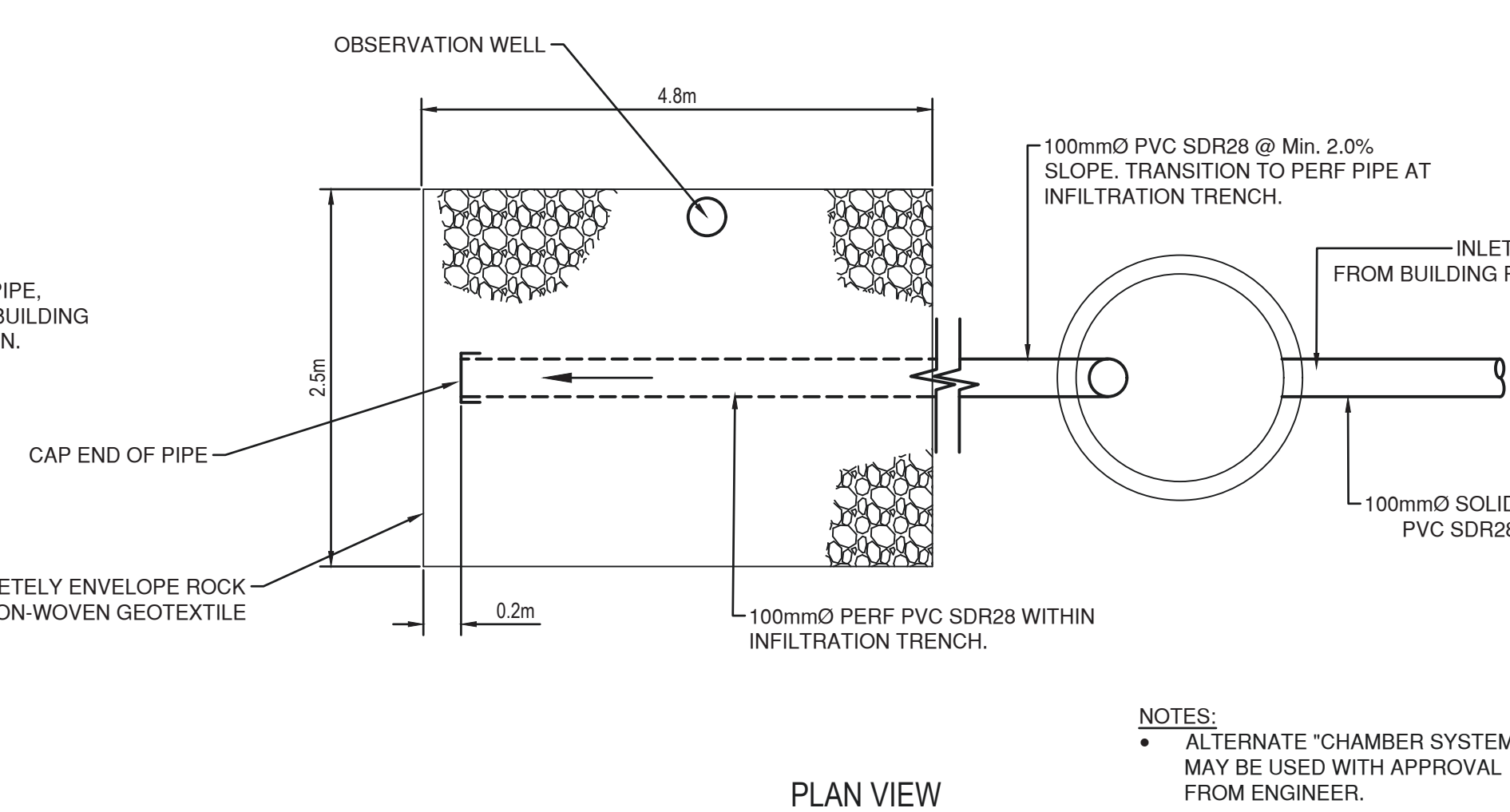
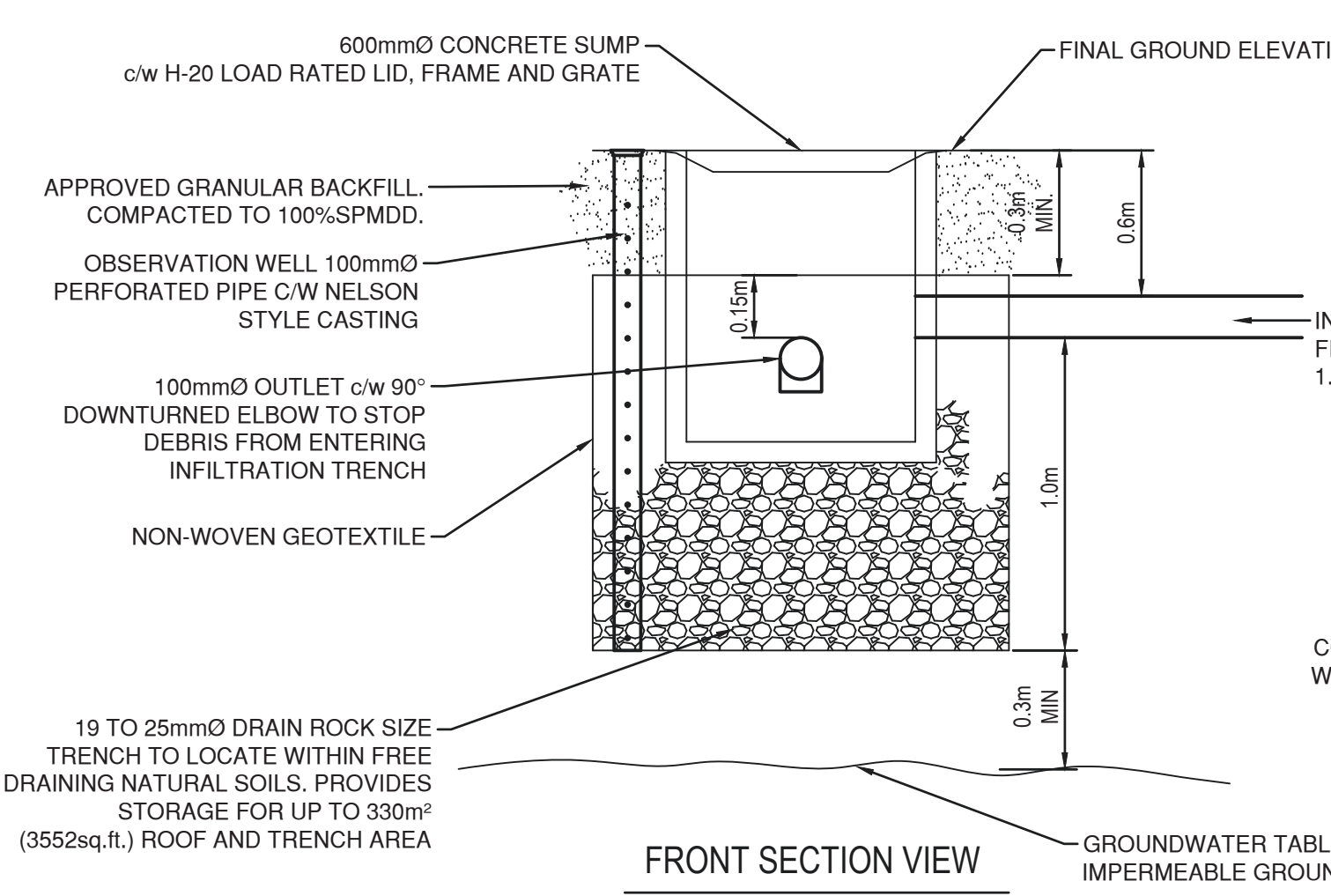
PATRICK TRUONG
PWSSC, Regional Manager, Architectural and Engineering Services /
Gestionnaire régional, services d'architecture et de génie, TPSSC
PREETIPAL PAUL

Drawing title/Titre du dessin
CIVIL DEMO AND PROPOSED SERVICING PLAN

Project No./No. du projet R.089617.001	Sheet/Feuille C-101	Revision no./ Révision no. 0
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EXISTING SITE AND DEMO PLAN
1:300



FRONT SECTION VIEW
NTS

PLAN VIEW

1 INFILTRATION TRENCH
C-101 NTS

GENERAL NOTES:

- ALL WORKS TO CONFORM TO THE PLATINUM EDITION OF THE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS (MMCD) AND STANDARD DETAIL DRAWINGS AND THE NATIONAL BUILDING CODE OF CANADA (NBC).
- CONSTRUCTION SURVEY LAYOUT IS TO BE PROVIDED BY THE CONTRACTOR.
- THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING BC-1 (1-800-474-6886) AND ALL UTILITY COMPANIES PRIOR TO THE START OF EXCAVATION.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A COPY OF THE MMCD PLATINUM DOCUMENTS AND MAINTAINING A COPY ON-SITE AT ALL TIMES.
- EXISTING UNDERGROUND UTILITIES ARE TO BE LOCATED PRIOR TO INSTALLING ANY NEW UNDERGROUND SERVICES. ANY DISCREPANCY IN ELEVATION OR LOCATION IS TO BE REFERRED TO THE DESIGN ENGINEER.
- THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE REPAIR OF ANY DAMAGE CAUSED TO EXISTING STREETS OR SERVICES BY CONSTRUCTION EQUIPMENT AND/OR TRUCKS HAULING MATERIALS TO THE SITE. THIS WILL INCLUDE DAILY CLEANING OR SWEEPING ALL EXISTING ROADS OF DIRT AND DEBRIS CAUSED BY CONSTRUCTION ACTIVITY.
- TRAFFIC CONTROL IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL CONFORM TO MOST CURRENT WORKSAFE BC, MMCD, AND MINISTRY OF TRANSPORTATION SPECIFICATIONS (TRAFFIC CONTROL MANUAL WORK ON ROADWAYS).
- WHEN NATIVE SITE GRANULAR BACKFILL IS PROPOSED FOR USE IN TRENCHES THE CONTRACTOR SHALL EMPLOY A PROFESSIONAL GEOTECHNICAL ENGINEER FOR PERFORMANCE OF IN PLACE DENSITY AND SIEVE TESTING. THE SITE MATERIAL MUST FALL WITHIN ONE OF THE GRANULAR BACKFILL MATERIAL SPECIFICATIONS AS PER MMCD. RIVER SAND IS NOT ACCEPTABLE AS TRENCH BACKFILL MATERIAL, WITHOUT ENGINEER'S APPROVAL.
- DO NOT COMMENCE ANY BACKFILL OPERATION UNTIL WORKS HAVE BEEN INSPECTED BY ENGINEER.
- ADJUST ALL PROPOSED AND EXISTING APPURTENANCES TO MEET FINAL DESIGN GRADES.
- AFTER CONSTRUCTION, RESTORE WORK AREAS AND EXISTING FEATURES TO THEIR ORIGINAL CONDITION OR BETTER.
- ALL SURPLUS MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY IN ACCORDANCE WITH ALL APPLICABLE GUIDELINES AND REGULATIONS.
- AFTER CONSTRUCTION, CONTRACTOR TO SUBMIT AS-BUILT DRAWINGS TO ENGINEER.

INFILTRATION TRENCH NOTES:

DESIGN NOTES:

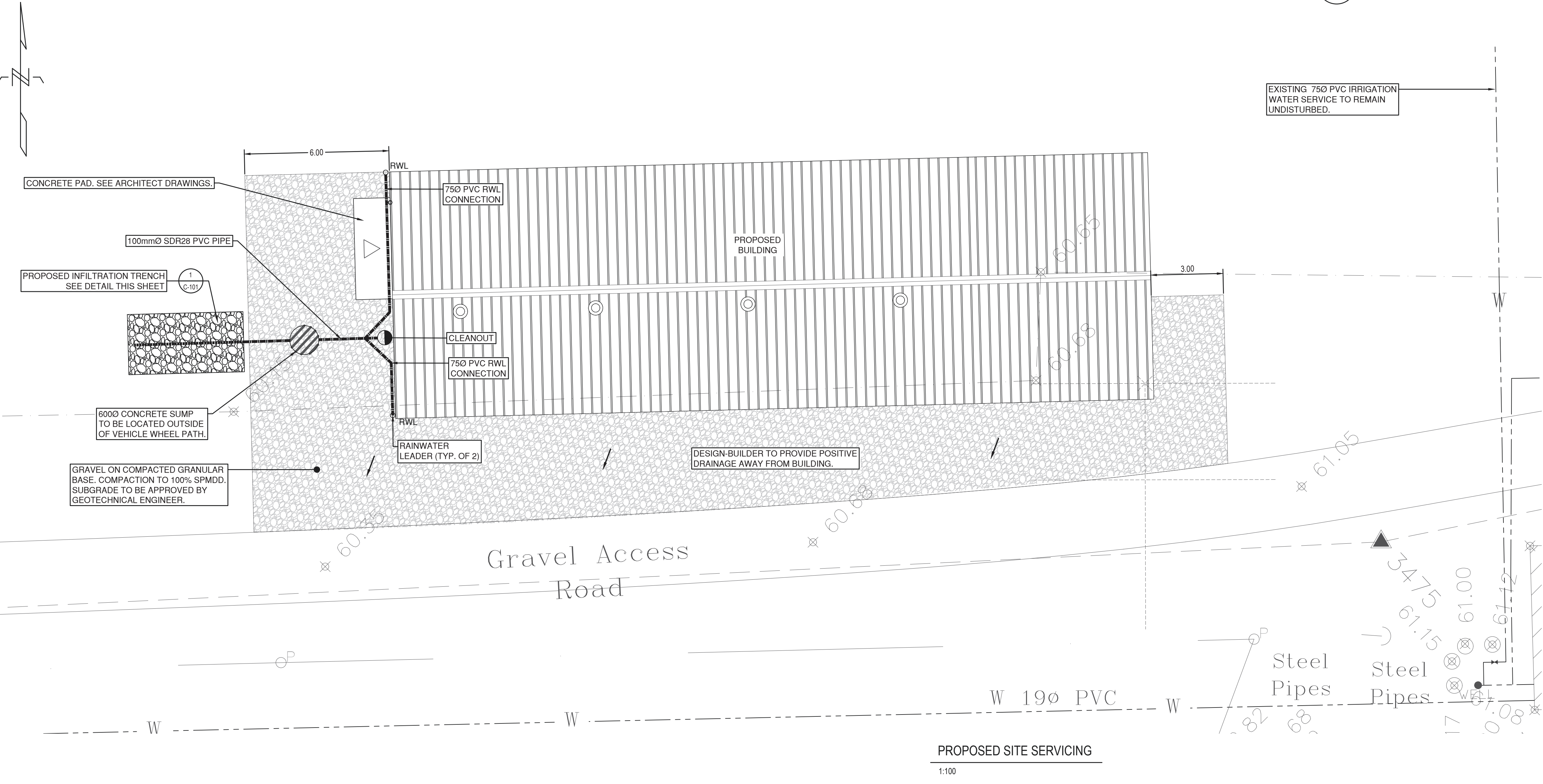
IMPERVIOUS AREA (EQUIPMENT SHED) = 330m²
DESIGN STORM = 10 YEAR RETURN @ 7.8mm/DAY - SCS 1A DISTRIBUTION
DESIGN INFILTRATION RATE = 150mm/HR
MINIMUM INFILTRATION AREA = 12m²
MINIMUM STORAGE VOLUME = 11.8m³

GENERAL

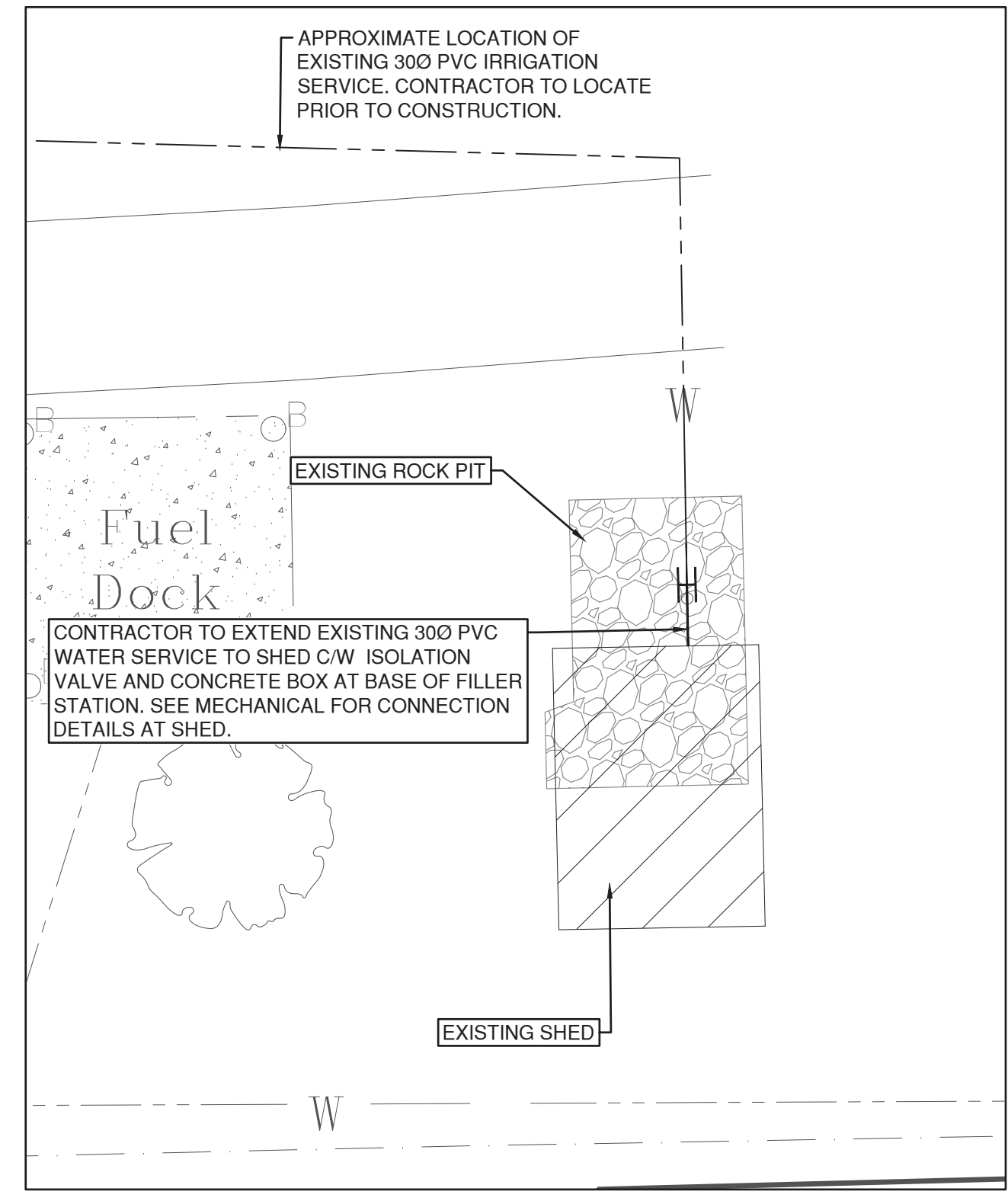
- DESIGN INFILTRATION RATE IS BASED ON SOIL CONDITIONS OBSERVED IN TESTPITS COMPLETED BY WESTERN GEOTECHNICAL CONSULTANTS LTD, NOVEMBER, 2017.
- CONTRACTOR TO EXPOSE THE NATIVE SAND IN AREAS OF INFILTRATION TRENCH PITS TO CONFIRM ELEVATIONS PRIOR TO CONSTRUCTION. INFILTRATION TRENCH PIT TO BE CONSTRUCTED AS PER ENGINEER'S DIRECTION.
- STORAGE VOLUMES ARE BASED ON THE INFILTRATION ROCK PIT SECTION SHOWN ON THE DRAWING, AND ASSUMES 35% VOID RATIO OF THE DRAIN ROCK. IF ALTERNATE INFILTRATION METHODS (IE CHAMBERS) OR DIFFERENT VOID RATIOS ARE USED AREAS AND VOLUMES SHOULD BE RECALCULATED.
- PERFORATED PIPE WITHIN INFILTRATION ROCK PIT TO BE LAID FLAT WITH PERFORATIONS POINTING DOWNWARD.
- ALL RAINWATER LEADERS TO HAVE DEBRIS/LEAF GUARDS.

GENERAL

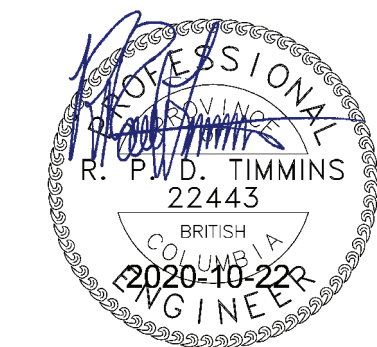
OWNER SHALL MONITOR THE OBSERVATION WELL QUARTERLY AND AFTER LARGE STORMS DURING THE FIRST YEAR AND ANNUALLY THEREAFTER TO ENSURE INFILTRATION TRENCH IS FUNCTIONING. CATCHBASIN AND OUTLET MANHOLE SUMP TO BE CLEANED ANNUALLY PRIOR TO WET SEASON (IE SEPTEMBER). DEBRIS/LEAF TRAPS, TO BE CLEANED PERIODICALLY AS REQUIRED.



PROPOSED SITE SERVICING
1:100



2 FILLER STATION RE-CONNECTION
C-101 NTS

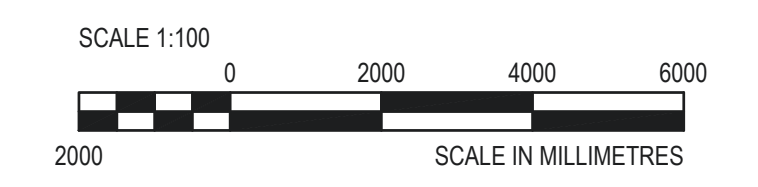
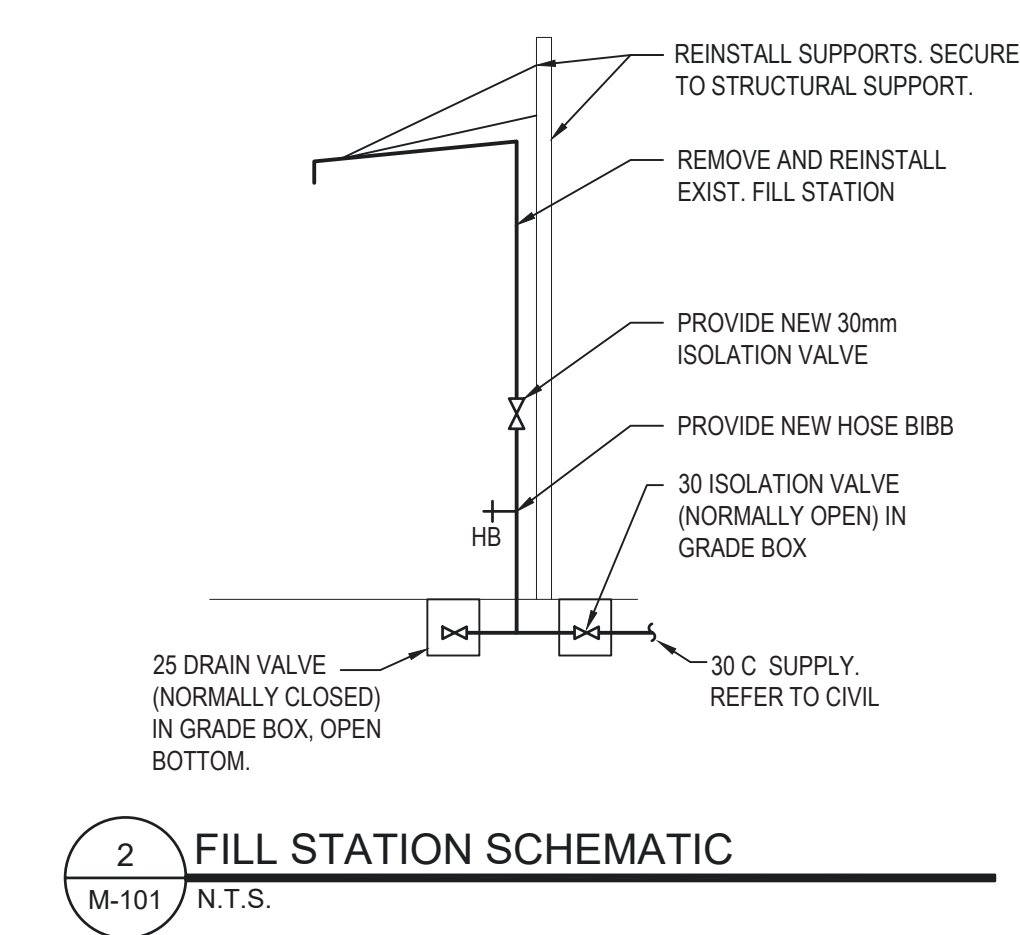
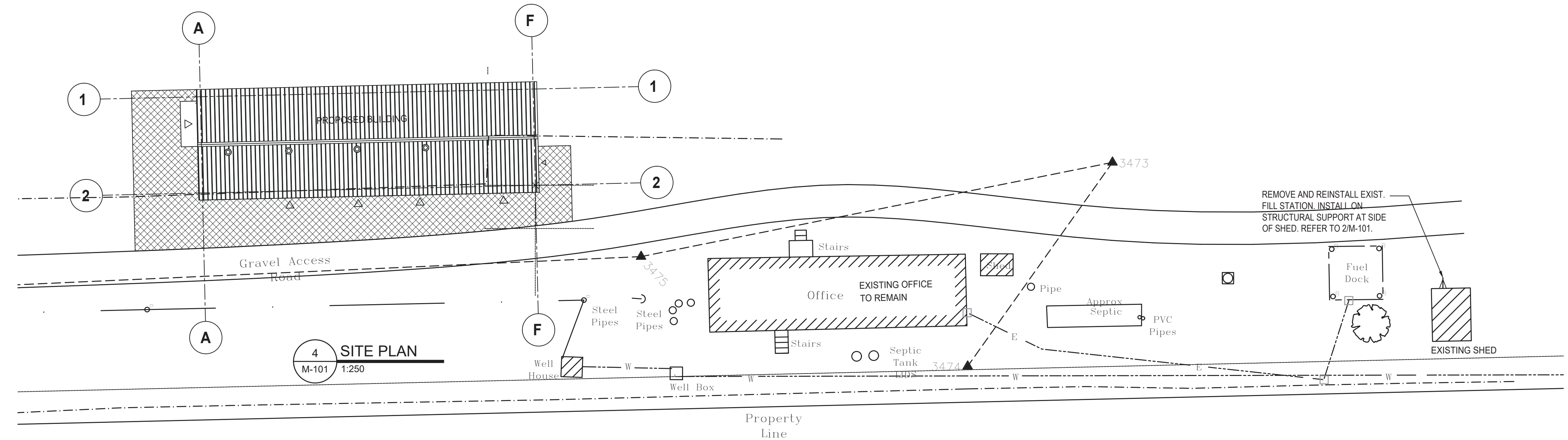


DRAWING LEGEND

(T)	THERMOSTAT
(S)	WALL SWITCH
(FE)	FIRE EXTINGUISHER

MECHANICAL DRAWING LIST

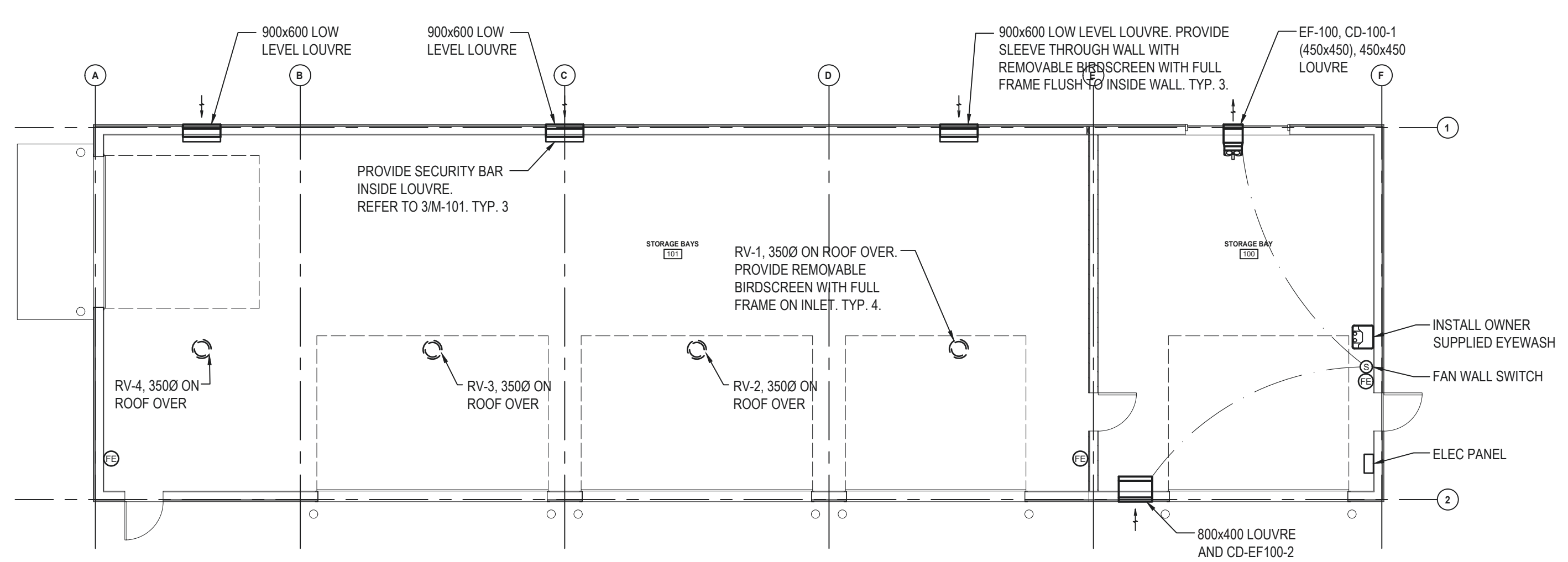
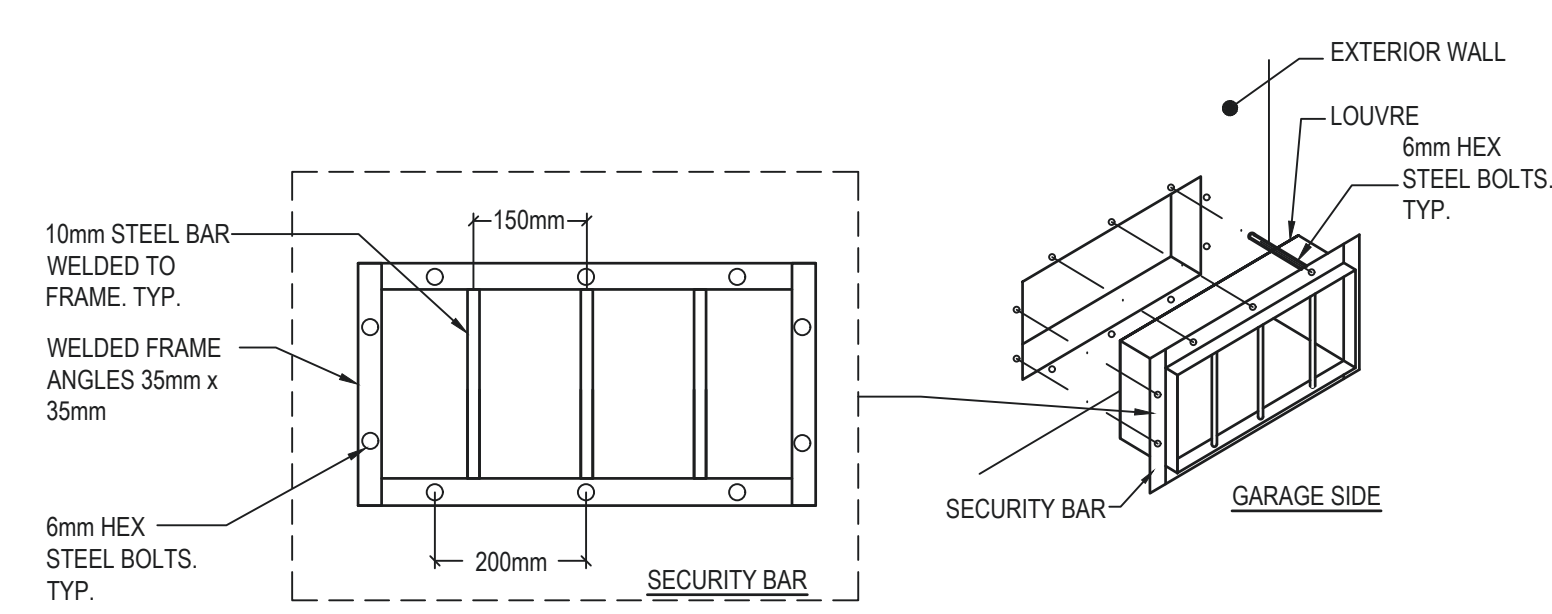
DRAWING NO.	DRAWING NAME	SCALE
M-101	PLUMBING & HEATING FLOOR PLAN	AS NOTED



FAN SCHEDULE

TAG	SERVICE	TYPE	AIR FLOW l/s / cfm	STATIC PRESSURE Pa / in	SONES	RPM	MOTOR HP	ELECT DATA		NOTES
								VOLTS	PHASE	
EF-100	GARAGE EXHAUST FAN	WALL MOUNTED PROPELLER	220 / 465	50 / 0.2	10.2	1587	.25	120	1	1

NOTE:
1. 250mm DIA. FAN BLADES COMPLETE WITH SPEED CONTROLLER FOR BALANCING, REMOVABLE SCREEN GUARD, WALL BOX, CONTROL DAMPER AND LOUVRE.



Revision Number	Description/Description	Date/Date
6	ISSUED FOR TENDER	2020/10/02
5	REISSUED FOR TENDER	2020/09/23
4	ISSUED FOR TENDER	2020/07/31
3	ISSUED FOR 100% VE REVIEW	2020/06/24
2	ISSUED FOR 100% REVIEW	2018/03/12
1	ISSUED FOR 50% REVIEW	2017/12/18

Client/client: **AGRICULTURE AND AGRI-FOOD CANADA**

ABBOTSFORD, B.C.

Project title/Titre du projet: **EQUIPMENT STORAGE UPGRADE CLEARBROOK EQUIPMENT**

Consultant Signature Box Only

Designed by/Concept par: PDT Approved by/Approv e par: PDT

Drawn by/Dessine par: DMM / RS

PWSSC Project Manager/Administrateur de Projets TPSGC: **PATRICK TRUONG**

PWSSC, Regional Manager, Architectural and Engineering Services / Gestionnaire r gionale, Services d'architecture et de g n re, TPSGC: **PREETIPAL PAUL**

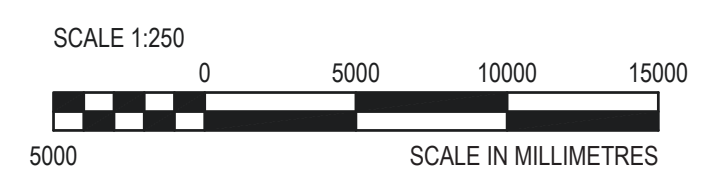
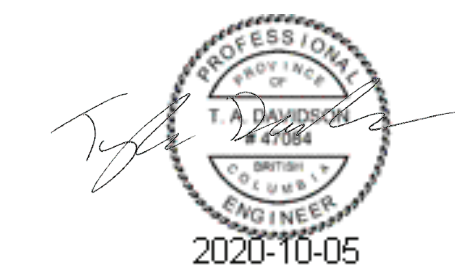
Drawing title/Titre du dessin: **PLUMBING & HEATING FLOOR PLAN**

Project No./No. du projet	Sheet/Feuille	Revision no./No. R�vision no.
R.089617.001	M-101	6





Project No: 220155



Revision Number	Description/Description	Date/Date
5	ISSUED FOR TENDER	20/10/02
4	ISSUED FOR TENDER	20/08/07
3	ISSUED FOR 100% VE-REVIEW	20/06/25
2	ISSUED FOR 100% REVIEW	18/03/08
1	ISSUED FOR 50% REVIEW	17/12/18

Client/client: AGRICULTURE AND AGRI-FOOD CANADA

ABBOTSFORD, B.C.

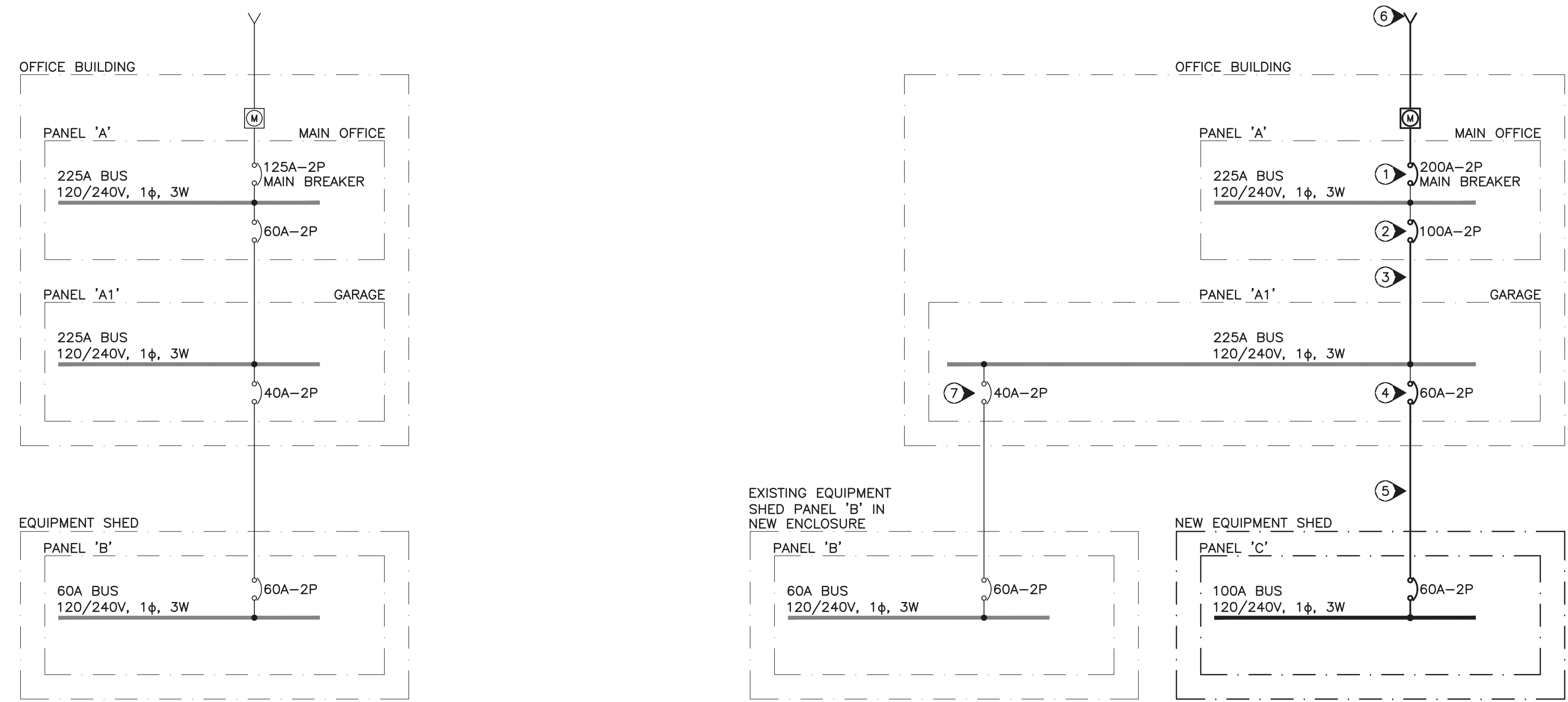
Project title/Titre du projet: EQUIPMENT STORAGE UPGRADE CLEARBROOK EQUIPMENT

EQUIPMENT STORAGE UPGRADE CLEARBROOK EQUIPMENT

Consultant Signature Box Only
WSP PROJECT #: 171-16216-00
 Designed by/Concept par: TD Approved by/Approuvée par: TD
 Drawn by/Dessiné par: CC
 PWSSC Project Manager/Administrateur de Projets TPSGC
PATRICK TRUONG
 PWSSC, Regional Manager, Architectural and Engineering Services / Gestionnaire régionale, Services d'architecture et de génie, TPSGC
PREETIPAL PAUL

ELECTRICAL SINGLE LINE DIAGRAM AND SITE PLAN

Project No./No. du projet	Sheet/Feuille	Revision no./No. Révision no.
R.089617.001	E-101	5



- KEYNOTES:**
- REPLACE EXISTING 125A-2P MAIN BREAKER WITH NEW 200A-2P MAIN BREAKER.
 - REPLACE EXISTING 60A-2P PANEL 'A1' SUB-FEED BREAKER WITH NEW 100A-2P BREAKER.
 - REPLACE EXISTING PANEL 'A1' FEEDER WITH NEW 3 #3, #6 BOND IN 35mmC.
 - INSTALL NEW 60A-2P BREAKER.
 - INSTALL NEW 3 #6, #6 BOND IN 53mmC RPVC TO NEW EQUIPMENT SHED.
 - UPGRADE EXISTING 125A, 120/240V, 1φ SERVICE TO 200A, 120/240V, 1φ SERVICE.
 - EXISTING 40A-2P SHED SUB-FEED BREAKER

EXISTING PANEL DETAILS:

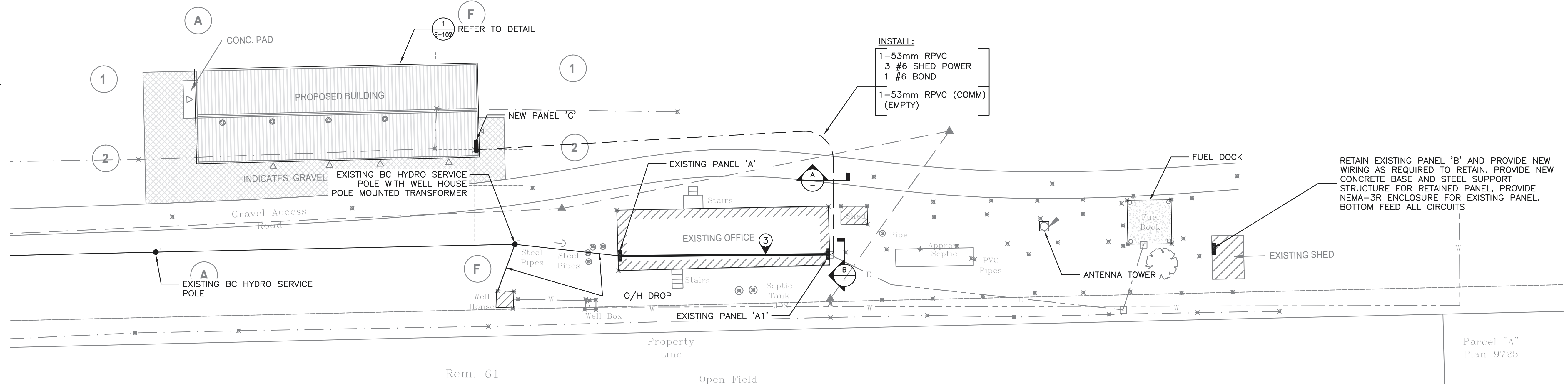
PANEL 'A' - SIEMENS TYPE P1, 42CIR, 225A MAIN BUS.
 PANEL 'A1' - SIEMENS TYPE P1, 30CIR, 225A MAIN BUS.
 PANEL 'B' - SIEMENS EQ LOADCENTRE

ELECTRICAL DRAWING LIST

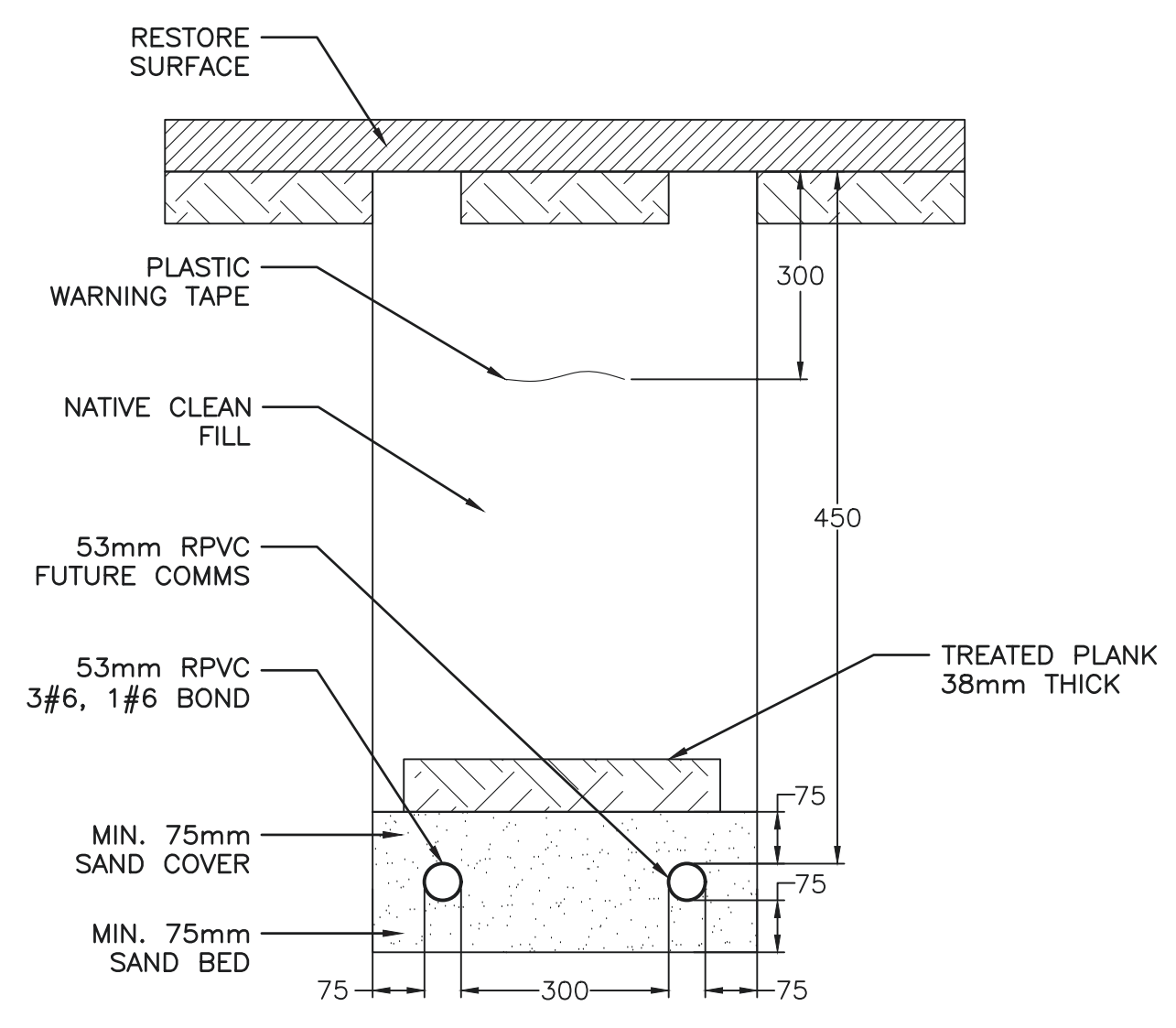
DRAWING NO.	DRAWING NAME
E-101	ELECTRICAL SINGLE LINE DIAGRAM AND SITE PLAN
E-102	LIGHTING AND POWER FLOOR PLAN
E-103	ELEVATIONS

1 EXISTING PARTIAL SINGLE LINE DIAGRAM
 E-101 SCALE: N.T.S.

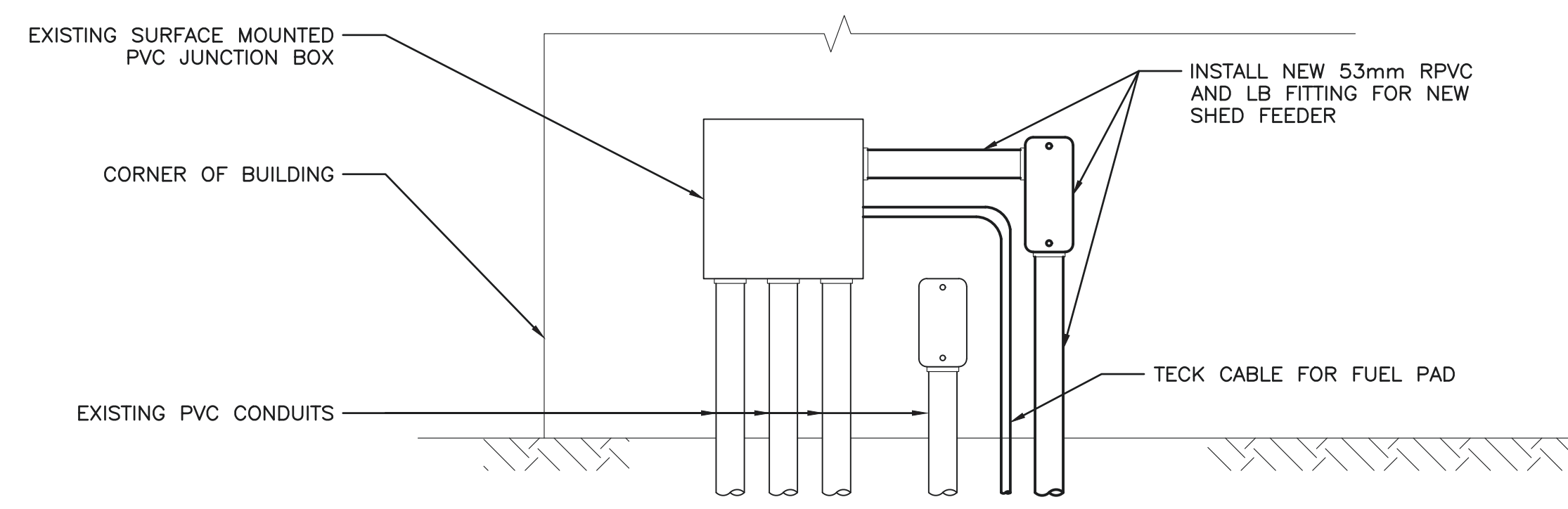
2 NEW PARTIAL SINGLE LINE DIAGRAM
 E-101 SCALE: N.T.S.



3 ELECTRICAL SITE PLAN
 E-101 SCALE: 1:250



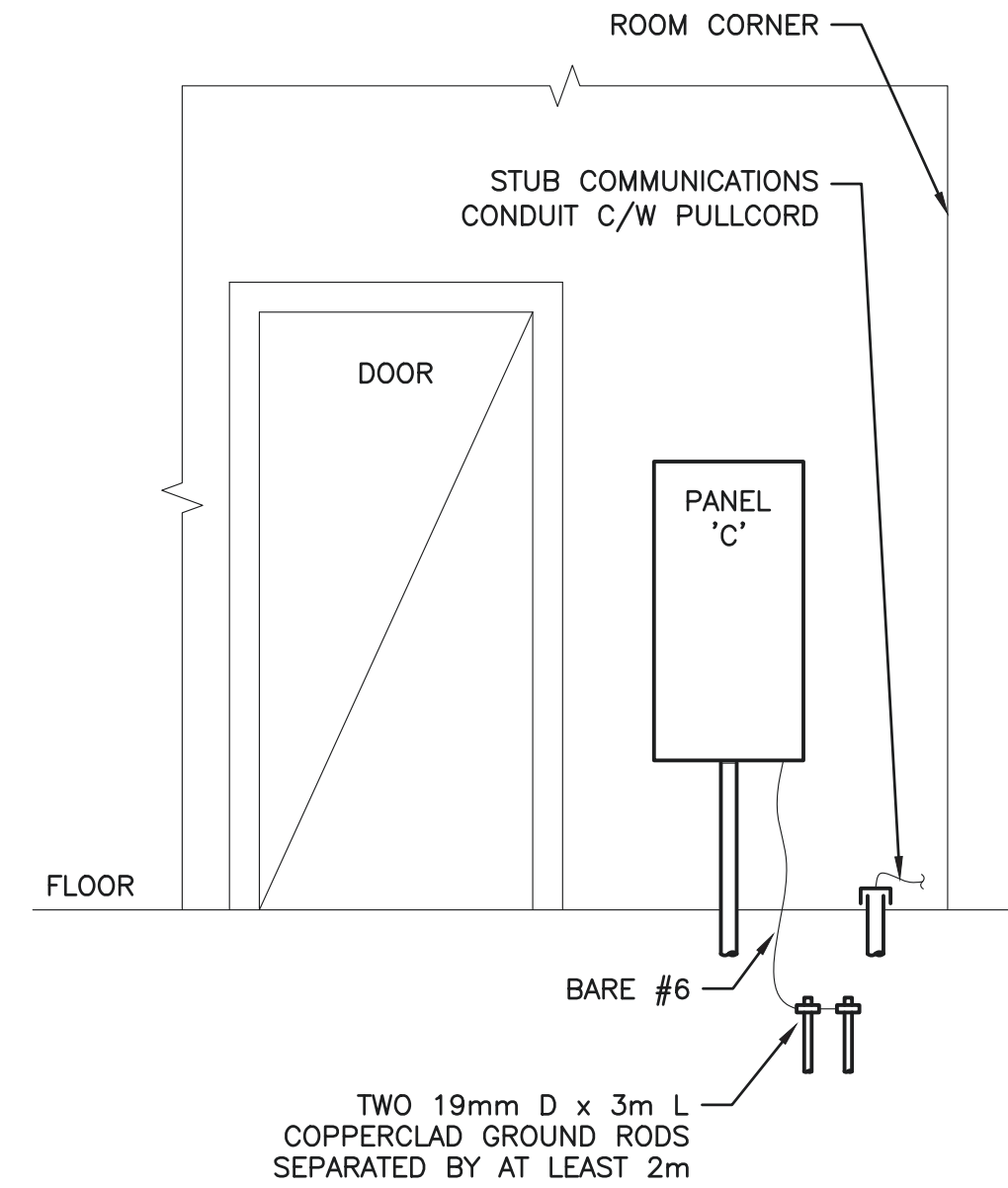
A DUCT SECTION
 E-101 SCALE: N.T.S.



B ELEVATION
 E-101 SCALE: N.T.S.

PANEL 'C'											
Voltage: - 120/240V, 1P, 3W											
Location: - Room 100											
Mounting: - Surface											
Circuits: - 42											
Bus Size: - 100A											
Description	Bkr	P	Cir	Bkr	P	Description	Bkr	P	Cir	Bkr	P
LIGHTING ROOM 100	15	1	1	2	15	1	RECEPTACLE				
LIGHTING ROOM 101	15	1	3	4	15	1	RECEPTACLE				
RECEPTACLE	15	1	5	6	15	1	RECEPTACLE				
RECEPTACLE - EXISTING FREEZER	15	1	7	8	15	1	RECEPTACLE				
RECEPTACLE - EXISTING FREEZER	15	1	9	10	15	1	RECEPTACLE				
RECEPTACLE - EXISTING FREEZER	15	1	11	12	15	1	RECEPTACLE				
SPARE	15	1	13	14	15	1	RECEPTACLE				
SPARE	15	1	15	16	15	1	RECEPTACLE				
SPARE	15	1	17	18	15	1	RECEPTACLE				
			19	20	15	1	RECEPTACLE				
			21	22	15	1	RECEPTACLE				
			23	24	15	1	RECEPTACLE				
			25	26	15	1	RECEPTACLE				
			27	28	15	1	RECEPTACLE				
EXTERIOR FLOOD LIGHTING	15	1	29	30	15	1	RECEPTACLE				
			31	32	15	1	RECEPTACLE				
			33	34	15	1	PORTABLE EYEWASH				
SPARE	15	1	35	36	15	1	SPARE				
EXHAUST FAN (EF-100)	15	1	37	38	15	1					
			39	40	15	1					
			41	42	15	1	EMERGENCY LIGHTING BATTERY UNITS				

LUMINAIRE SCHEDULE	
LUMINAIRE TYPE	DESCRIPTION
TYPE 'A'	WALL MOUNTED LED FLOOD LIGHT. BRONZE FINISH. 36W, 4000K, TYPE 3.
TYPE 'B'	SUSPENDED LED FULLY ENCLOSED AND GASKETED INDUSTRIAL STRIP LIGHT 1200mmL CW FROSTED, RIBBED IMPACT RESISTANT ACRYLIC DIFFUSER. 4000K, 40W



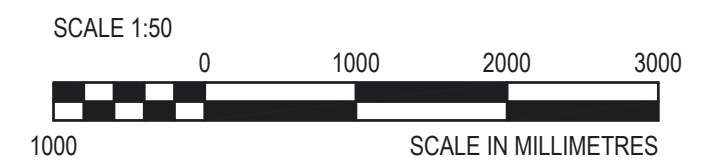
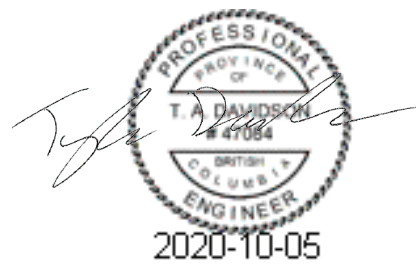
A ELEVATION
E-102 SCALE: N.T.S.

FLOOR PLAN SYMBOL SCHEDULE	
SYMBOL	DESCRIPTION
'B'	SUSPENDED LED INDUSTRIAL STRIP LIGHT - LUMINAIRE TYPE 'B'
⊕	EXTERIOR WALL MOUNTED LED FLOOD LIGHT - LUMINAIRE TYPE 'A'
⊕ WP	WALL MOUNTED PHOTOCELL "WP" DENOTES WEATHERPROOF TYPE
⊕	EXIT SIGN WALL MOUNTED
⊕	EMERGENCY BATTERY PACK (150W)
⊕	EMERGENCY LIGHTING REMOTE LUMINAIRES
⊕	WALL MOUNTED DUPLEX RECEPTACLE SPLIT WIRED
⊕	WALL MOUNTED DUPLEX RECEPTACLE
⊕	EXHAUST FAN
⊕	DISCONNECT SWITCH
⊕	HP RATED RELAY
⊕	LINE VOLTAGE THERMOSTAT
⊕	SURFACE MOUNTED PANEL

KEYNOTES:
 ① RECEPTACLE FOR EXISTING FREEZER.
 ② BATTERY PACK REQUIRES INTEGRAL HEATER TO PREVENT FREEZING. EXAMPLE IS THE LUMACELL LHZ SERIES WITH COLD WEATHER OPTION.

MECHANICAL EQUIPMENT LIST										
TAG	EQUIPMENT DESCRIPTION	KW	HP	FLA	VOLTAGE	PHASE	CIRCUIT #	OVERCURRENT	FEEDERS	NOTES
EF-100	EXHAUST FAN		.25		120	1	C37	15A-1P	2#12	INSTALL HP RATED RELAY. DAMPER INTERLOCKING BY MECHANICAL CONTRACTOR

Project No.: 220155



Revision Number	Description/Description	Date/Date
5	ISSUED FOR TENDER	20/10/02
4	ISSUED FOR TENDER	20/08/07
3	ISSUED FOR 100% VE-REVIEW	20/06/25
2	ISSUED FOR 100% REVIEW	18/03/08
1	ISSUED FOR 50% REVIEW	17/12/18

Client/client: AGRICULTURE AND AGRI-FOOD CANADA

ABBOTSFORD, B.C.

Project title/Titre du projet: EQUIPMENT STORAGE UPGRADE CLEARBROOK EQUIPMENT

Consultant Signature Box Only
WSP PROJECT #: 171-16216-00

Designed by/Concept par: TD Approved by/Approuvée par: TD

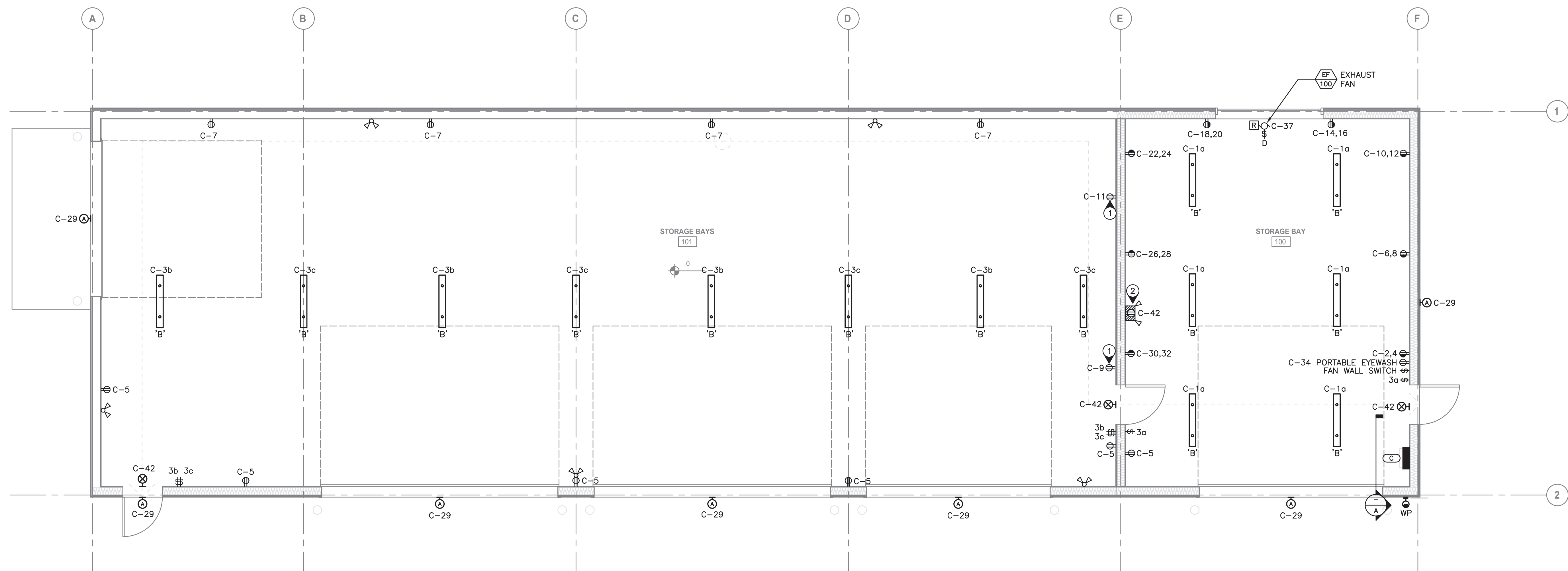
Drawn by/Dessiné par: CC

PWSSC Project Manager/Administrateur de Projets TPSSC
PATRICK TRUONG
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Gestionnaire régionale, Services d'architecture et de génie, TPSSC
PREETIPAL PAUL

Drawing title/Titre du dessin

LIGHTING AND POWER FLOOR PLAN

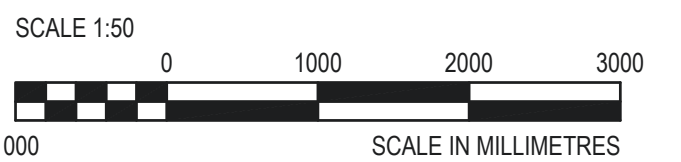
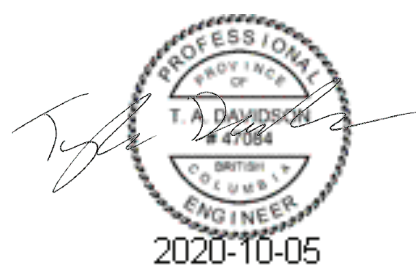
Project No./No. du projet: R.089617.001
Sheet/Feuille: E-102
Revision no./Révision no.: 5



1 LIGHTING AND POWER FLOOR PLAN
E-102 SCALE: 1:50



Project No.: 220155



Revision Number	Description/Description	Date/Date
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3	ISSUED FOR 100% VE-REVIEW	20/06/25
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1	ISSUED FOR 50% REVIEW	17/12/18

Client/client

AGRICULTURE AND AGRI-FOOD CANADA

ABBOTSFORD, B.C.

Project title/Titre du projet

EQUIPMENT STORAGE UPGRADE CLEARBROOK EQUIPMENT

Consultant Signature Box Only
WSP PROJECT #: 171-16216-00

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PREETIPAL PAUL

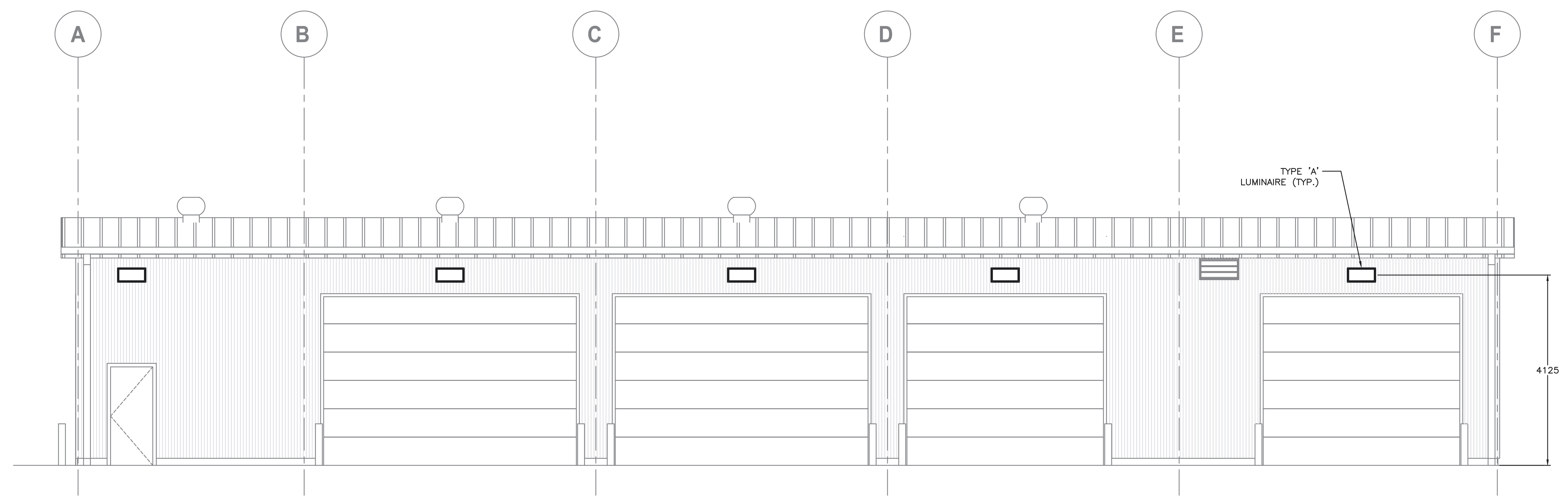
Drawing title/Titre du dessin

ELEVATIONS

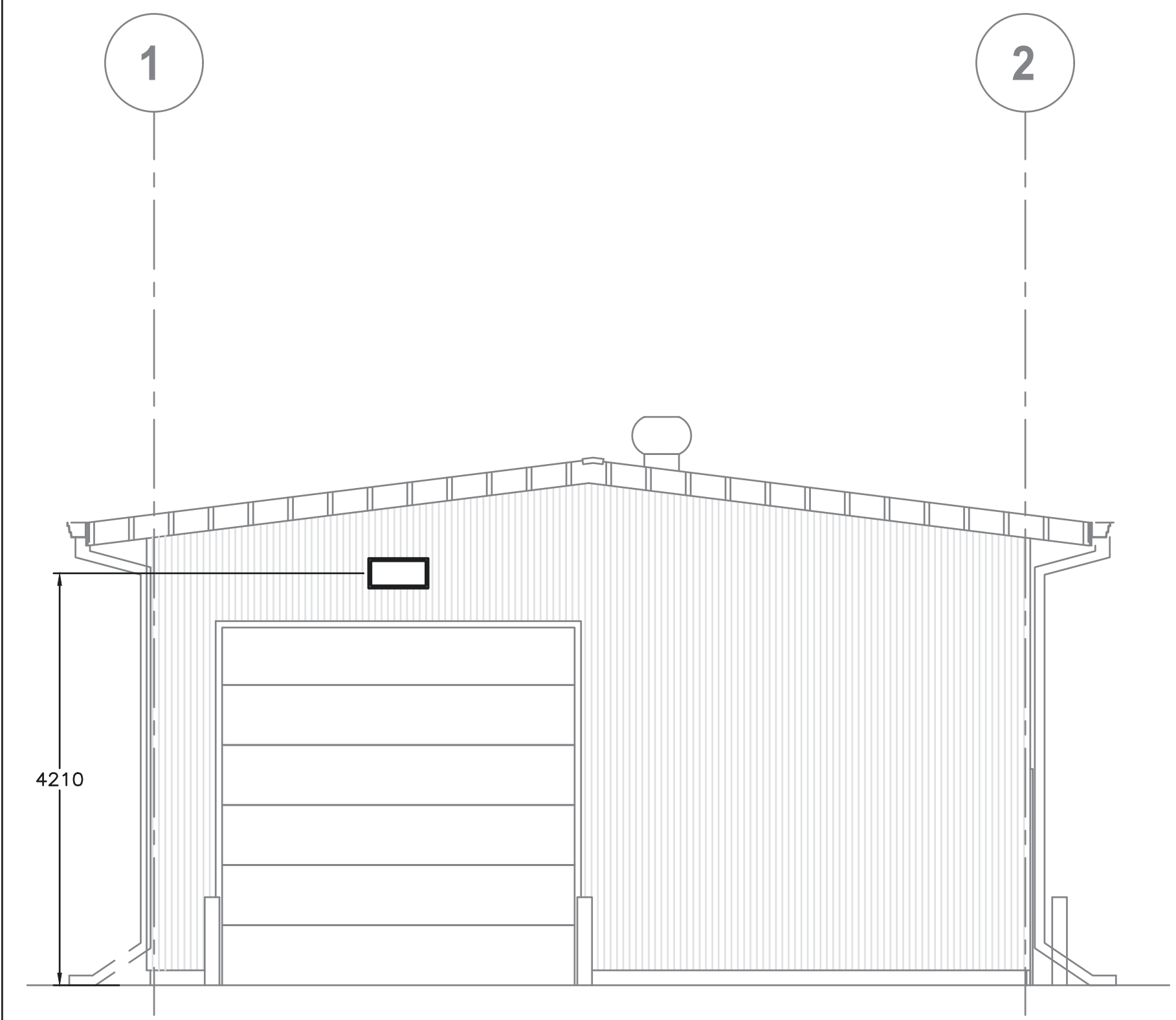
Project No./No. du projet: R.089617.001

Sheet/Feuille: E-103

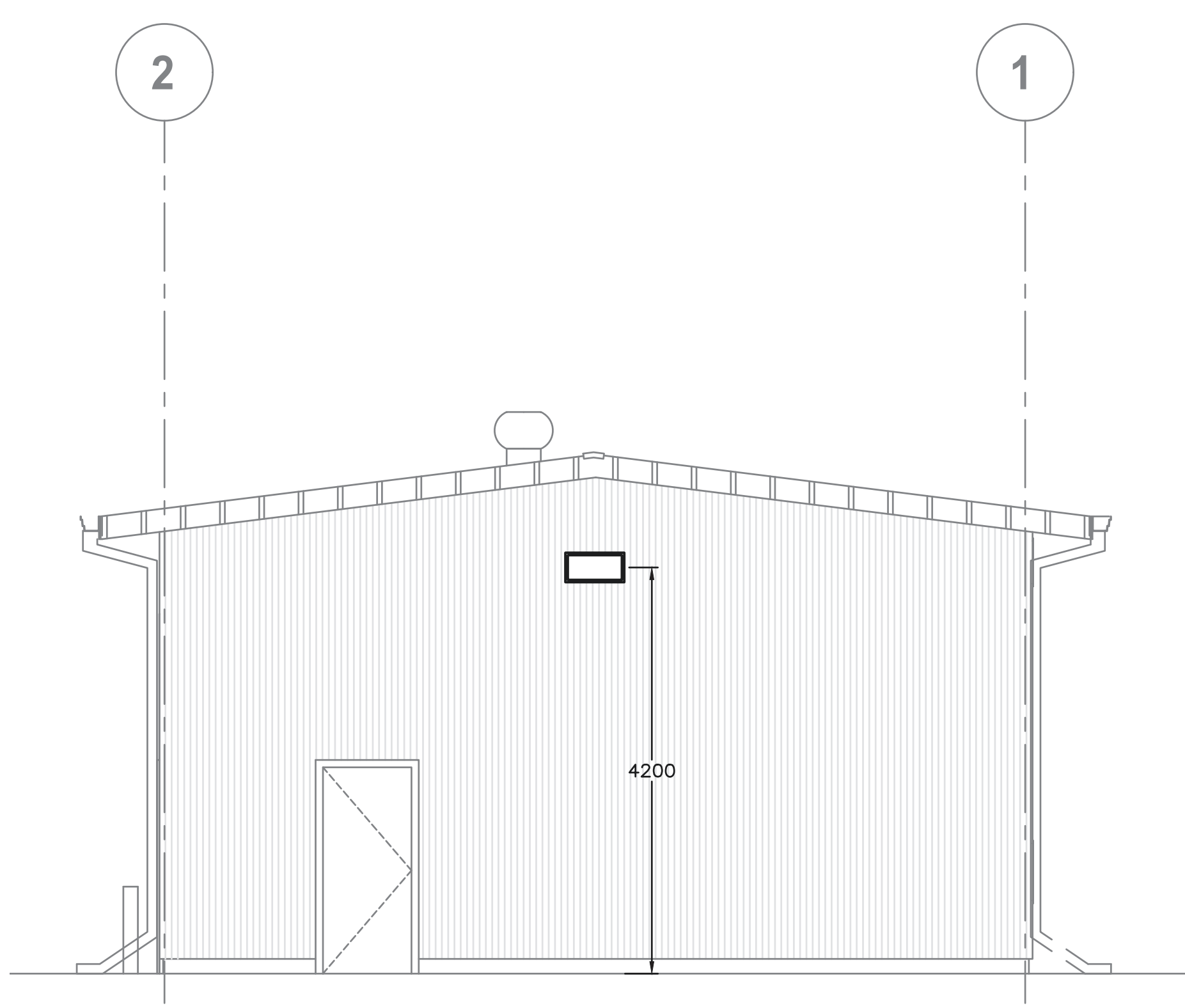
Revision no./Révision no.: 5



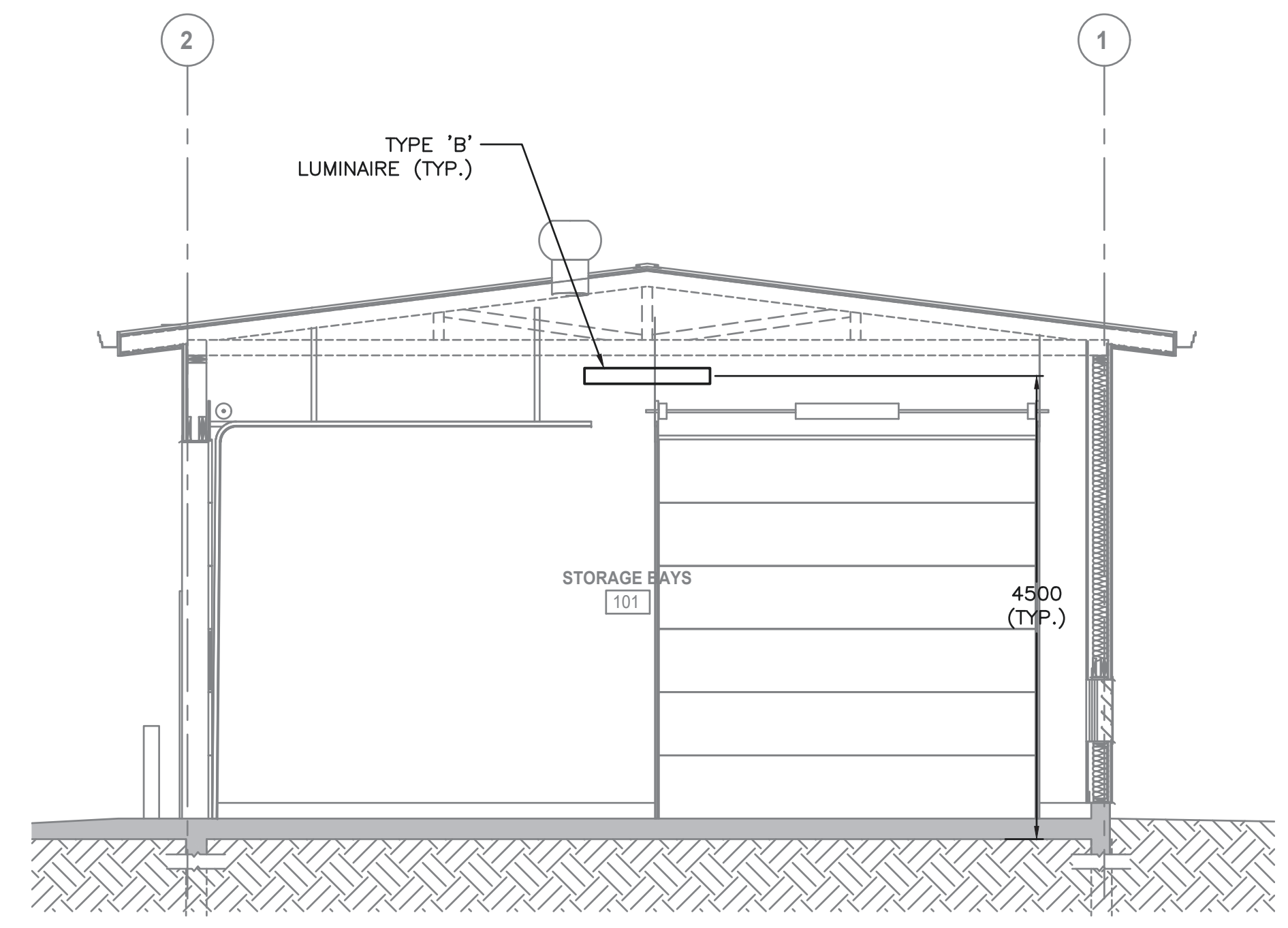
1 SOUTH ELEVATION
E-103 SCALE: 1:50



2 WEST ELEVATION
E-103 SCALE: 1:50



3 EAST ELEVATION
E-103 SCALE: 1:50



4 BUILDING SECTION
E-103 SCALE: 1:50

