

2020 06 16

Prime Site Solutions Inc. (Vendor to FREEDOM MOBILE)
1499 W Pender Street Suite 702
Vancouver, BC
V6G 0A7

Re:	CIVIC ADDRESS:	3778 Konrath Road, Prince George
	LEGAL:	LT 1 DL 1600 PL 9649
	DESCRIPTION:	New Antenna System (29.5m Monopole Tower)

Please be advised that FREEDOM MOBILE INC. (FREEDOM) has completed the public consultation process, following Innovation, Science and Economic Development Canada (ISED), formerly Industry Canada's, Default Public Consultation Process, CPC-2-0-03. FREEDOM is respectfully requesting, from the City of Prince George, concurrence for the proposal to construct a new antenna system, in the form of a 29.5m monopole tower, at 3778 Konrath Road in an effort to provide wireless services to Prince George. Enclosed please find evidence of the FREEDOM's efforts as per the Default Public Consultation Process.

AUGUST 22nd, 2018 - Information Package submitted to the City of Prince George formalizing the initiation of the consultation process with the City.

DECEMBER 5th, 2018 - Notification packages mailed to property owners within a radius of three times the tower height **88.5m** to advise them of the proposal.

JANUARY 7th, 2019 - Consultation period closed.

SUMMARY OF COMMENTS RECEIVED - No comments received.

SUPPORTING DOCUMENTATION ATTACHED-

1. Copy of Public Notice Package
2. Public Notice Report (including Radius Map, list of mail-outs)
3. Engineer Drawings

Invitation for Community Feedback
Proposed Freedom Mobile 29.5 Meter Monopole Wireless Communications
Facility Located at 3778 Konrath Rd, Prince George, BC

Dear Neighbour,

Freedom Mobile is actively planning its network build for the launch of wireless services in the Prince George area in BC. In order to launch its network, Freedom Mobile requires the installation of new wireless communication facilities. One of the new sites required, is proposed to be installed near Highway 16 (Yellowhead Highway) and Westgate Ave; located in the south-west region of Prince George, BC, at the coordinates N 53.860534 and W -122.804529. Freedom Mobile has commenced consultation in accordance with the City of Prince George land use regulations.

PROPOSAL DETAILS:

Freedom Mobile is proposing to install a 29.5 metre monopole wireless communication facility. The installation will include a total of four (4) wireless antennae and one (1) microwave dish on a City owned property located at 3778 Konrath Rd, Prince George, BC (PID:012.855.898). The ancillary equipment necessary to operate this facility will be enclosed by a fence at the base of the tower. The monopole is required to support Freedom's antennae in order to provide wireless communication network service within a few kilometres of the proposed location.

REGULATORY AUTHORITY

Telecommunication providers are required by Innovation, Science, and Economic Development Canada (ISED), formerly Industry Canada, to consult with the local municipality and the general public regarding new installations. Freedom is committed to meaningful consultation with the City of Prince George and the public. The City of Prince George does not currently have a specific policy towards Telecommunication Tower Siting and Consultation and therefore the ISED default consultation process is adopted for the proposed installation.

This letter provides written notification to adjacent landowners and stakeholders with an opportunity to engage in reasonable, relevant, and timely communication regarding this proposal. You have received a copy of this notification package because your property, or a property you have an interest in, is located within 88.5 metres or less from the proposed installation. The closing period for written comments regarding the proposal is **December 28th, 2018**. Any inquiries that are received as a result of this notification will be logged and submitted to the City of Prince George as part of our application process.

Purpose

The purpose of the proposed facility is to provide wireless coverage to portions of the City of Prince George. Currently, there are no existing antenna support structures or other feasible infrastructure that can be utilized in this area; as a result, this new antenna support structure is required. An aerial photo of the proposed location and a photo-simulation of the proposed pole are included as part of this notification package.

Location

The facility is proposed to be located at the coordinates N 53.86053 and W -122.804529, 3778 Konrath Rd, Prince George, BC. This subject property is located west of Highway 16 (Yellowhead Highway) and Westgate Ave.

Health & Safety of Wireless Facilities

ISED manages the radio communications spectrum in Canada and requires cellular telecommunications facilities to comply within the guidelines set by Health Canada in order to protect people who live or work near these facilities. Health Canada safety guidelines are outlined in their 'Safety Code 6' document. All Freedom Mobile facilities adhere to and are generally well within these standards. Freedom Mobile attests that the radio installation described in this notification package will be installed and operated on an ongoing basis to comply with Health Canada's Safety Code 6 for the protection of the general public including any combined effects of nearby installations within the local radio environment. If you have questions about this proposal, you are welcome to contact us.

Site Access

Access is via the existing access driveway. Construction is anticipated to take 30 to 45 days. Once complete, the site will only be accessed for routine maintenance visits which typically occur once or twice a month. To safeguard the site from the general public, the tower base and equipment shelter will be enclosed by a secure fence.

Environment

Freedom Mobile confirms that the installation is excluded from environmental assessment under the Canadian Environmental Assessment Act.

Design

The proposal consists of a 29.5 metre monopole structure, with an equipment compound. Freedom Mobile plans to install four (4) panel antennae and one (1) microwave dish at the top of the pole and two (2) accessory equipment cabinets securely fenced within a 5.0 metre x 5.0 metre compound area at the base. A preliminary design of the site plan, compound layout and pole profile are included in this notification for your reference.

Transport Canada

The tower will be marked in accordance with the Transport Canada and NAV Canada requirements. No marking or lighting is required.

Structural Considerations

Freedom Mobile confirms that the antenna structure described in this notification package will apply good engineering practices including, structural adequacy during construction. The facility will be built to the National Building Code as well as the BC Building Code.

Local Municipality

The City of Prince George Staff have reviewed this proposal as per existing land use regulations, and Council will provide concurrence or non-concurrence at Regular Council Meeting.

General Information

General information relating to antenna systems is available on ISED's Spectrum Management and Telecommunications website: <http://www.ic.gc.ca/eic/site/ic-gc.nsf/eng/07422.html>

*Contacts***Freedom Mobile:**

c/o Jason Niles of Prime Site Solutions Inc.
Agents for Freedom Mobile
Suite 702 – 1499 W Pender Street Suite
Vancouver, BC, V6G 0A7
P: 250-858-4574
Email: jason@primesitesolutions.ca

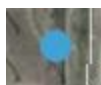
City of Prince George:

c/o Kali Holahan, Planner Planning and Development
1100 Patricia Blvd,
Prince George, BC, V2L 3V9
P: 250.561-7791
E: kali.holahan@princegeorge.ca

ISED:

c/o Lower Mainland Office
13401 – 108 Avenue, Suite 1700
Surrey, BC V3T 5V6
P: 604-586-2521
Fax: 604-586-2528
E: ic.spectrum@surrey-ic.ca

Aerial Photo



_PROPOSED LOCATION: 3778 Konrath Rd, Prince George, BC

Photo Simulation

BEFORE



AFTER



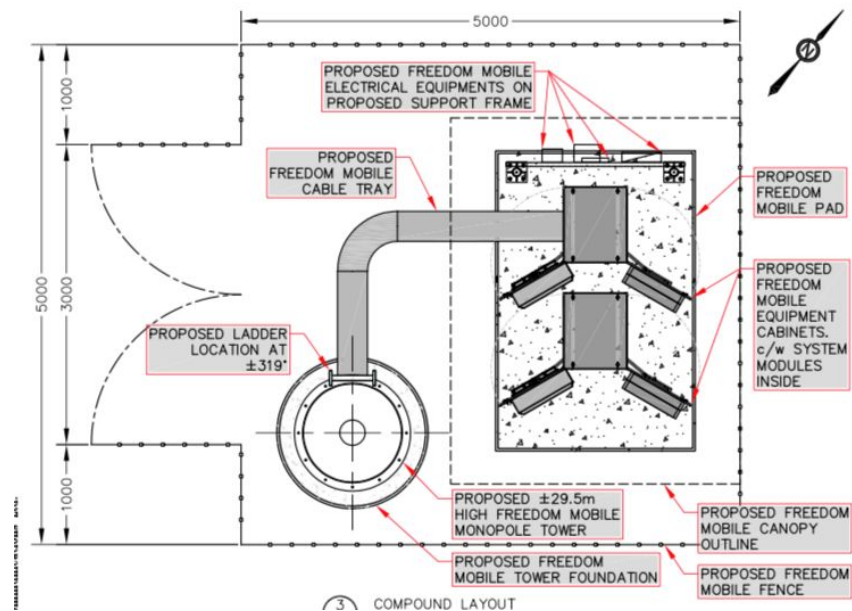
Rendering of proposed facility, looking West from Konrath Rd.

Note: Photo-simulation is for conceptual purposes only.

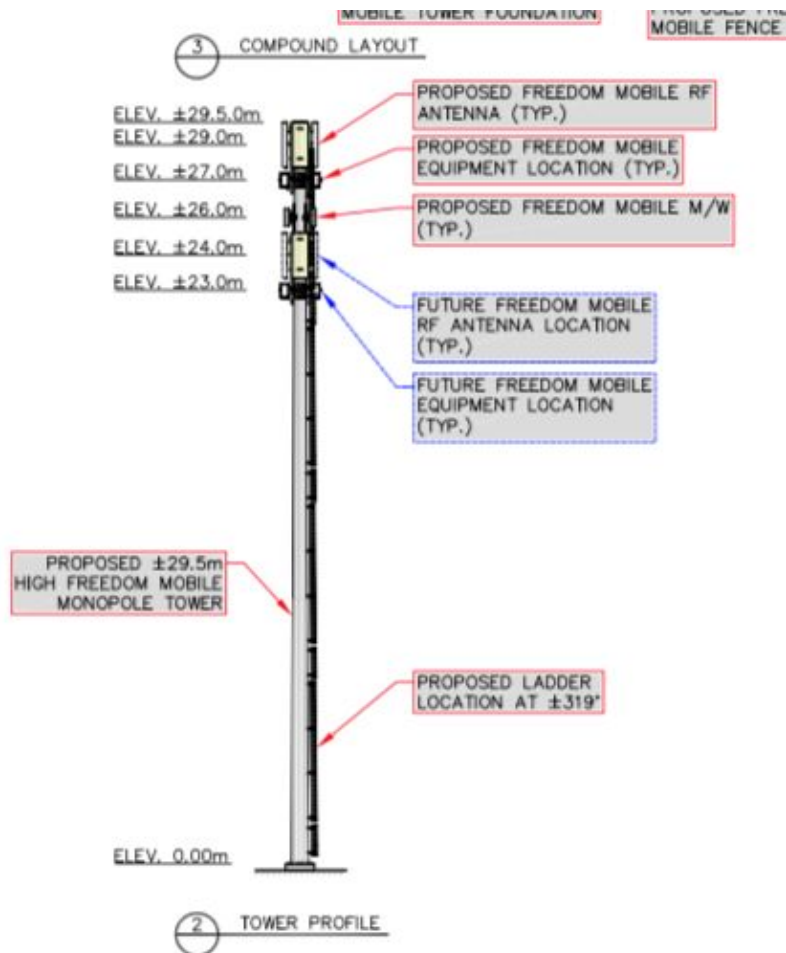
Site Plan



Compound Layout



Tower Profile



**COMMENT SHEET
PROPOSED RADIOCOMMUNICATIONS TOWER
3778 Konrath Rd, Prince George, BC
FREEDOM MOBILE SITE: BPG0010B**

1. Do you feel this is an appropriate location for the proposed facility?

- ☐ Yes
☐ No

Comments

2. Are you satisfied with the appearance / design of the proposed facility? If not, what changes would you suggest?

- ☐ Yes
☐ No

Comments

3. Additional Comments

Please provide your name and full mailing address if you would like to be informed about the status of this proposal. This information will not be used for marketing purposes; however, your comments will only be used by Freedom Mobile in satisfying the City of Prince George's consultation records.

Name:

Email Address:

Mailing Address:

**Freedom Mobile c/o Prime Site Solutions Inc.
Suite 702 – 1499 W Pender Street Suite
Vancouver, BC, V6G 0A7
Attention: Jason Niles, Land Use Agent
*Thank you for your input.***

BPG0010B_ FREEDOM MOBILE_29.5m Monopole
3778 Konrath Rd, Prince George, BC

Legal Description: LT 1 DL 1600 PL 9649 (012.855.898)

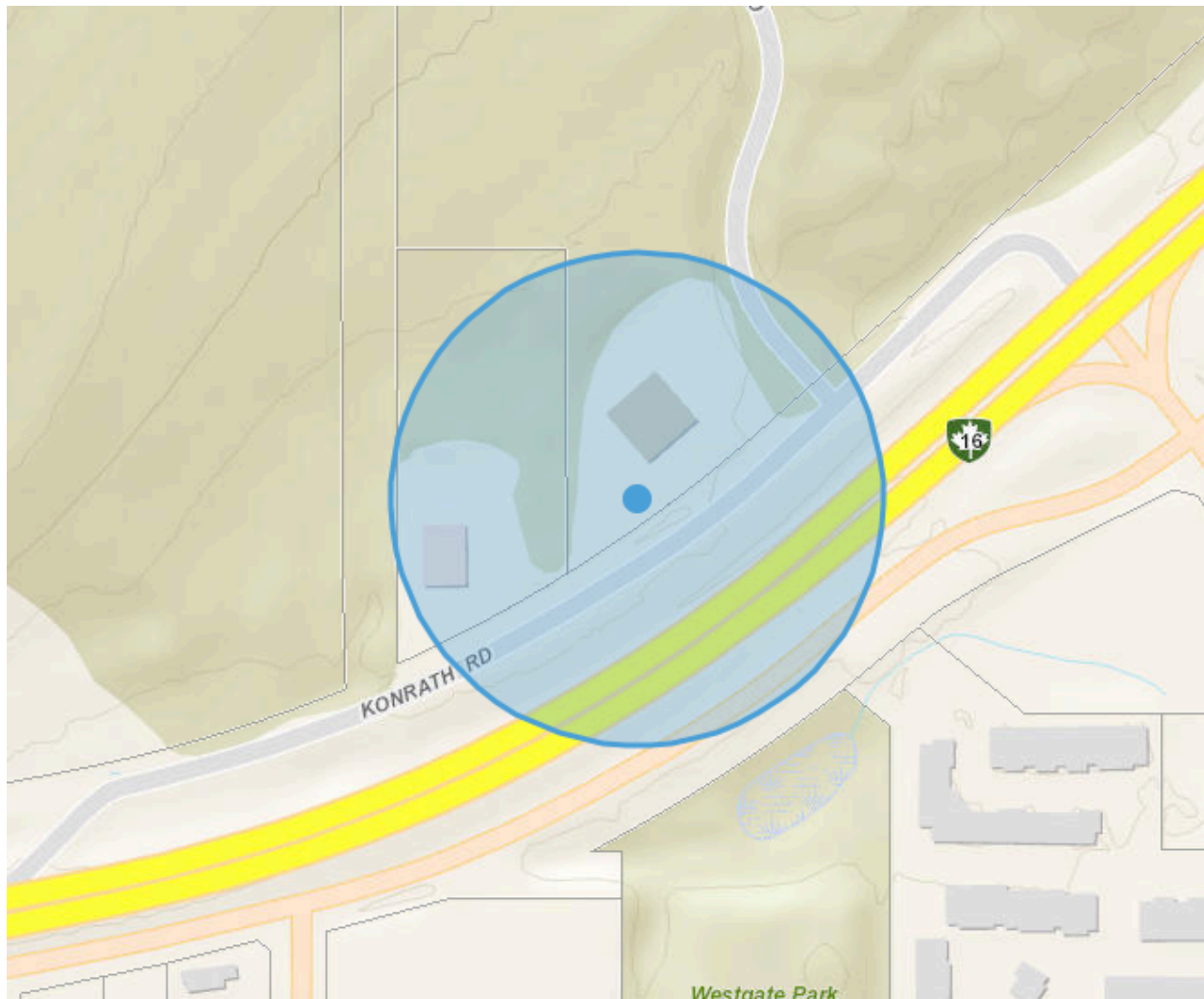
Context Map



BPG0010B_ FREEDOM MOBILE_29.5m Monopole
3778 Konrath Rd, Prince George, BC

Public Notification Radius Map
3 x structure height (29.5m x 3 = 90m)

Mailing Date: December 05, 2018
30-day Closing Date: Jan 1st, (full cut-off Jan. 7th, 2019)



BPG0010B_ FREEDOM MOBILE_29.5m Monopole
3778 Konrath Rd, Prince George, BC

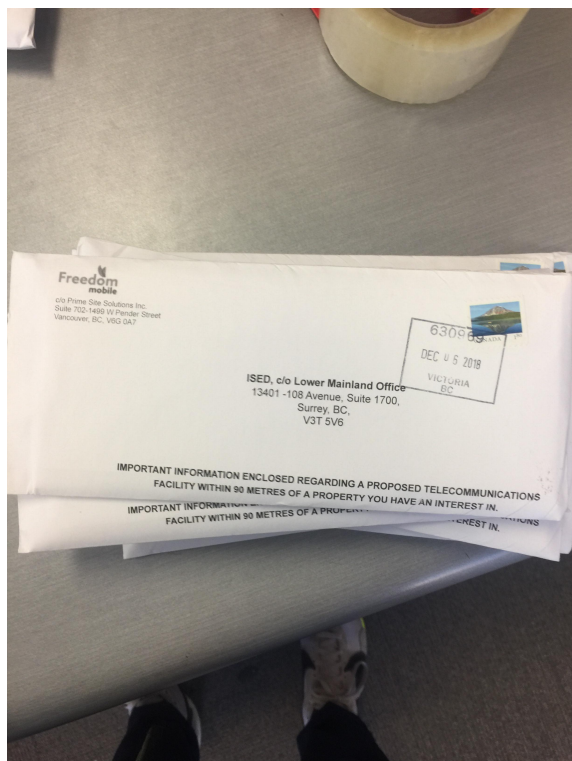
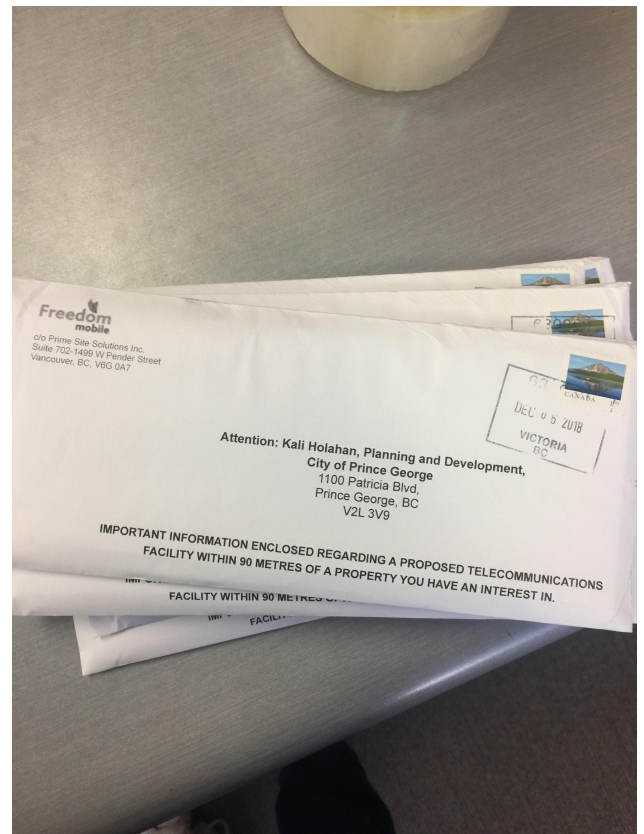
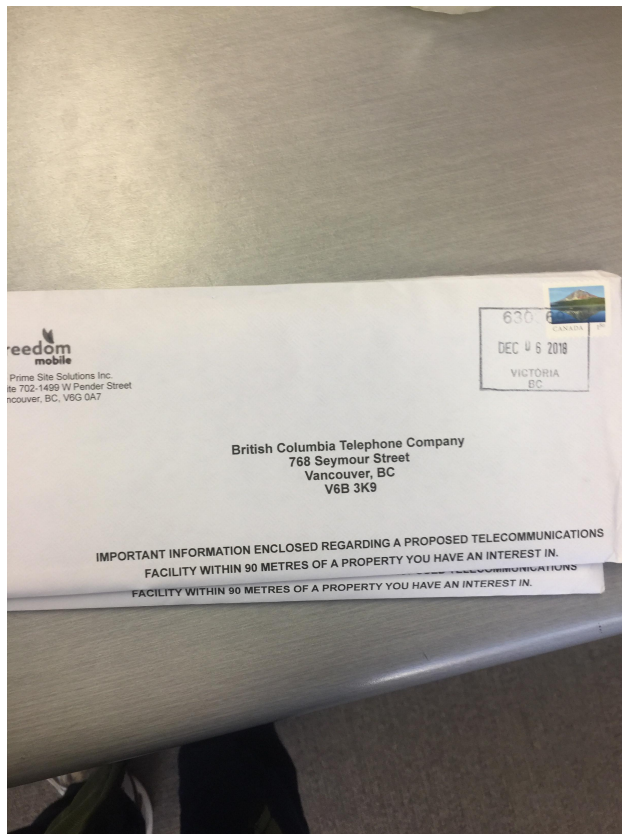
Public Notice Address List

5 mail-outs

BPG0010B	City of Prince George	3778 Konrath Rd	1100 Patricia Blvd, Prince George, BC V2L 3V9	PID: 12855898
	British Columbia Telephone Company	3792 Konrath Rd	768 Seymour Street, Vancouver, BC, V6B 3K9	PID: 13019872
	Freedom Mobile, Attention: Erica Rigik, Real Estate and Municipal Affairs		Suite 209-221, West Esplanade, North Vancouver, BC, V7M 3J3	
	City of Prince George, Attention: Kali Holahan, Planning and Development		1100 Patricia Blvd, Prince George, BC V2L 3V9	
	ISED, c/o Lower Mainland Office		13401 -108 Avenue, Suite 1700, Surrey, BC, V3T 5V6	

BPG0010B_ FREEDOM MOBILE_29.5m Monopole
3778 Konrath Rd, Prince George, BC

Sample Photos





ROEHAMPTON COMMUNICATIONS LTD. ROEHAMPTON COMMUNICATIONS LTD. ROEHAMPTON COMMUNICATIONS LTD. ROEHAMPTON COMMUNICATIONS LTD. ROEHAMPTON COMMUNICATIONS LTD. ROEHAMPTON COMMUNICATIONS LTD.

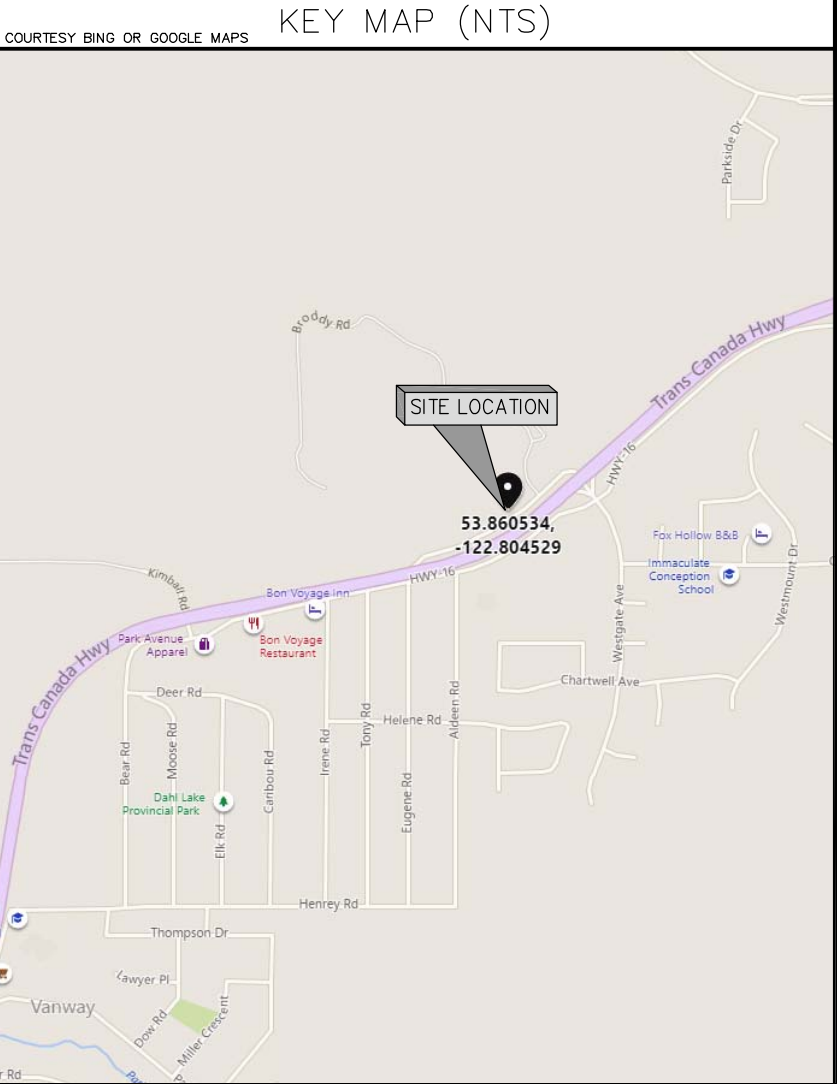
PROJECT NAME:	NEW SITE – GREENFIELD
PROJECT TYPE:	29.5m MONOPOLE & EQUIPMENT INSTALLATION
PROJECT SITE No.:	BPG0010B
TOWER OWNER:	FREEDOM MOBILE
ADDRESS:	3778 KONRATH RD., PRINCE GEORGE, B.C.

DRAWING INDEX			
SHEET	DRAWING DESCRIPTION	NO.	DATE
COV.	TITLE SHEET & SITE KEY PLAN	0	03 DEC 18
A01	TOWER PROFILE	0	03 DEC 18
A02	SITE PLAN	0	03 DEC 18
A03	COMPOUND LAYOUT	0	03 DEC 18
A04	PARTIAL SOUTH WEST ELEVATION VIEW	0	03 DEC 18
S01	EQUIPMENT FOUNDATION	0	03 DEC 18
S02	EQUIPMENT LAYOUT	0	03 DEC 18
S03	EQUIPMENT CANOPY	0	03 DEC 18
S04	CANOPY DETAILS	0	03 DEC 18
S05	CABLE TRAY DETAILS	0	03 DEC 18
S06	FENCING DETAILS	0	03 DEC 18
E01	LEGEND	0	03 DEC 18
E02	SINGLE LINE DIAGRAM	0	03 DEC 18
E03	ELECTRICAL ROUTE	0	03 DEC 18
E04	ELECTRICAL FEED ELEVATION	0	03 DEC 18
E05	GROUNDING DIAGRAM	0	03 DEC 18
E06	COMPOUND GROUNDING	0	03 DEC 18
E07	EQUIPMENT DETAILS	0	03 DEC 18
E08	ELECTRICAL NOTES	0	03 DEC 18
N01	GENERAL NOTES	0	03 DEC 18
N02	EQUIPMENT DETAILS	0	03 DEC 18

ISSUE		
0	ISSUED FOR CONSTRUCTION	03 DEC 18



SITE PHOTO



GEOGRAPHIC COORDINATES
LATITUDE: N 53.860534° LONGITUDE: W 122.804529°

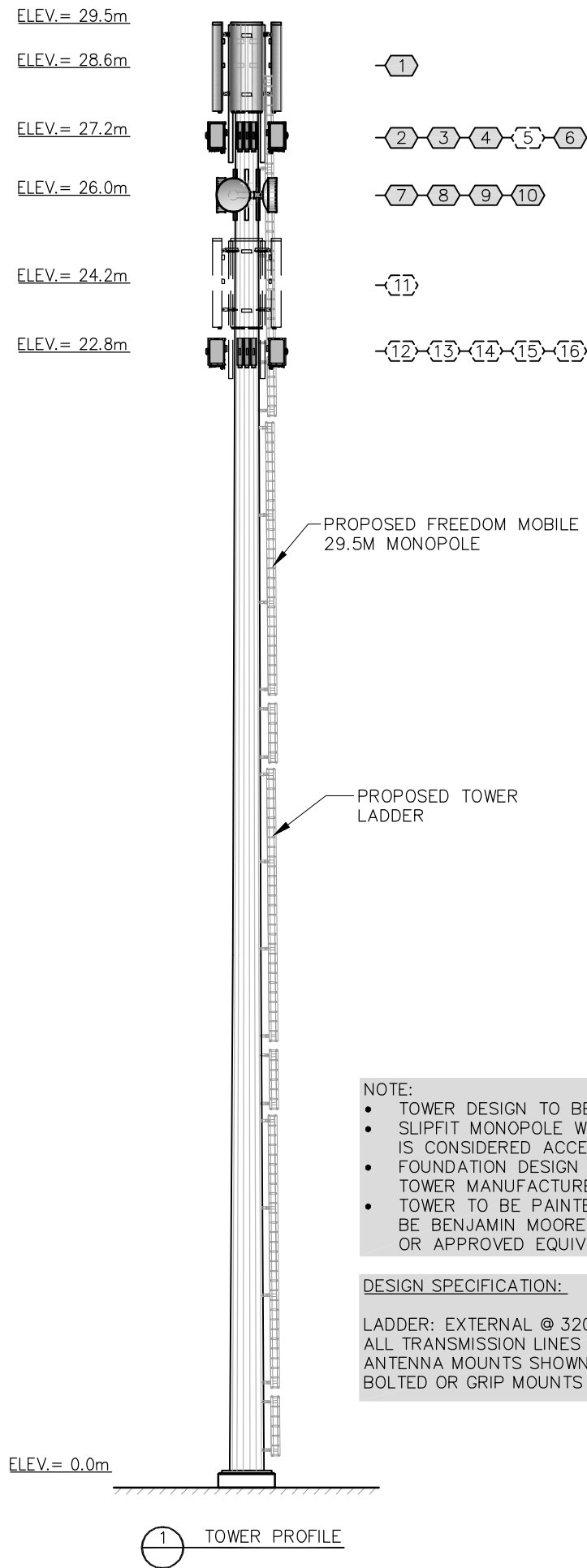
UTILITY – CONTACT
BRITISH COLUMBIA ONE CALL: (BEFORE YOU DIG) 1-800-474-6886

NOTES:
1. ENSURE ALL ASPECTS OF WORK CONFORM TO FREEDOM MOBILE SPECIFICATIONS. 2. CONTRACTOR TO VERIFY NORTH DIRECTION AND REPORT ANY DISCREPANCIES. 3. ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE. 4. READ THESE DRAWINGS IN CONJUNCTION WITH ALL OTHER CONTRACT DOCUMENTS. 5. CONTRACTOR TO VERIFY EXISTING CONDITIONS ON SITE PRIOR TO FABRICATION FOR EXACT FIT. NOTIFY CONSULTANT/ENGINEER REGARDING ANY DISCREPANCIES. 6. DO NOT SCALE DRAWINGS.

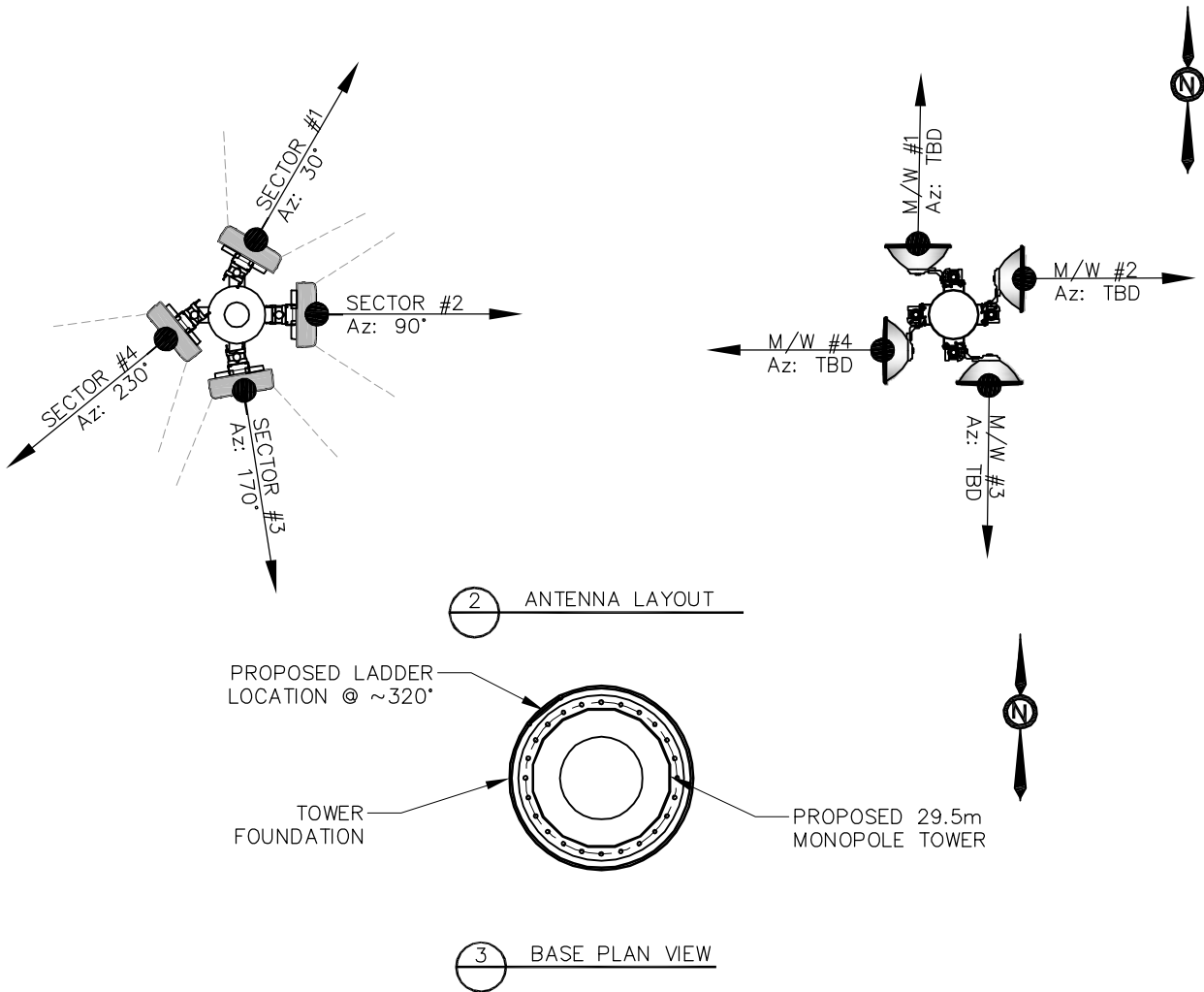


**ROEHAMPTON
WEST**
744 WEST HASTINGS ST,
SUITE 219
VANCOUVER, BC V6C 1A5
TEL. (778)300-1233
VANCOUVER - EDMONTON - CALGARY

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RADIO ANTENNA SCHEDULE									
#	ELEV. (m)	ANTENNA/EQUIPMENT			Tx LINE			OWNER	STATUS
		QTY.	MODEL	AZIMUTH(DEG.)	QTY.	MODEL	LENGTH		
1	28.6	4	CCI TPA65R-GE6A	30/90/170/230	48	JUMPERS	±3.0m	FREEDOM	PROPOSED
2	27.2	4	FRIJ	—	4/4	DC/FIBRE JUMPERS	±3.0m	FREEDOM	PROPOSED
3	27.2	4	AHFIB	—	4/4	DC/FIBRE JUMPERS	±3.0m	FREEDOM	PROPOSED
4	27.2	4	AHBCC	—	4/4	DC/FIBRE JUMPERS	±3.0m	FREEDOM	PROPOSED
5	27.2	4	RRU	—	4/4	DC/FIBRE JUMPERS	±3.0m	FREEDOM	FUTURE
6	27.2	1/1	DC SPLITTER & FIBRE SPLITTER	—	1/1	DC & FIBRE TRUNK	±35m	FREEDOM	PROPOSED
7	26.0	1	2' M/W	TBD	1	CAT 5E	±33m	FREEDOM	PROPOSED
8	26.0	1	2' M/W	TBD	1	CAT 5E	±33m	FREEDOM	PROPOSED
9	26.0	1	2' M/W	TBD	1	CAT 5E	±33m	FREEDOM	PROPOSED
10	27.0	2	2' M/W	TBD	1	CAT 5E	±33m	FREEDOM	PROPOSED
11	24.2	4	CCI TPA65R-GE6A	30/90/170/230	TBD	TBD	TBD	FREEDOM	FUTURE
12	22.8	4	FRIJ	—	TBD	TBD	TBD	FREEDOM	FUTURE
13	22.8	4	AHFIB	—	TBD	TBD	TBD	FREEDOM	FUTURE
14	22.8	4	AHBCC	—	TBD	TBD	TBD	FREEDOM	FUTURE
15	22.8	4	RRU	—	TBD	TBD	TBD	FREEDOM	FUTURE
16	22.8	1/1	DC SPLITTER & FIBRE SPLITTER	—	TBD	TBD	TBD	FREEDOM	FUTURE
JUMPERS = LDF4 DC=1/2-3/4" FIBRE = 3/8"-1/2"									



- NOTES:
- TOWER DESIGN IS CONCEPTUAL FOR TENDER PURPOSES AND IS NOT FOR CONSTRUCTION, OBTAIN SITE SPECIFIC WIND FOR FINAL DESIGN.
 - ALL WORK TO CONFORM TO LATEST FREEDOM MOBILE SPECIFICATIONS.
 - VERIFY ALL DIMENSIONS DURING INSTALLATION AND REPORT ANY DISCREPANCIES TO ENGINEER.
 - ALL DIMENSIONS ARE IN MM UNLESS NOTED OTHERWISE.
 - DRAWINGS ARE NOT TO BE SCALED.

CLIENT:

CARRIER:



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0	CD	ISSUED FOR CONSTRUCTION	03 DEC 18
NO.	BY	DESCRIPTION	DATE



ROEHAMPTON WEST
744 WEST HASTINGS ST,
SUITE 219
VANCOUVER, BC V6C 1A5
TEL: (778)300-1233
VANCOUVER - EDMONTON - CALGARY

LOCATION:
3778 KONRATH RD., PRINCE GEORGE, B.C.

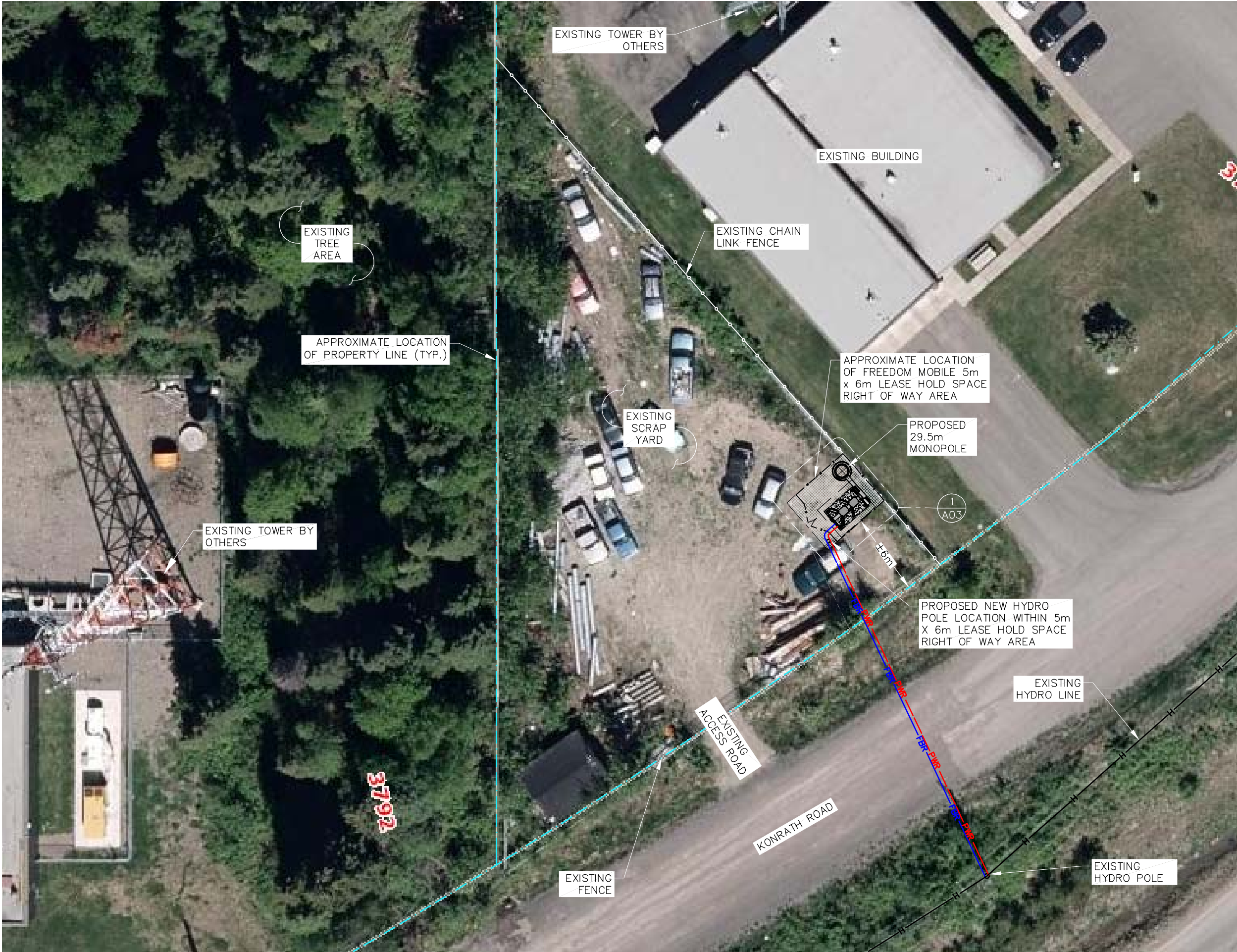
TITLE:
TOWER PROFILE

PROJECT NAME:
NEW SITE – GREENFIELD

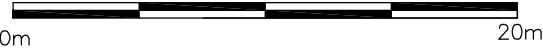
PROJECT NO:
BPG0010B

DWG. NO:
A01

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1 SITE PLAN



NOTES:
SITE PLAN OBTAINED FROM GOOGLE MAPS.
THIS DRAWING DOES NOT REPRESENT A
SURVEY.

CLIENT:

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NO.	BY	DESCRIPTION	DATE

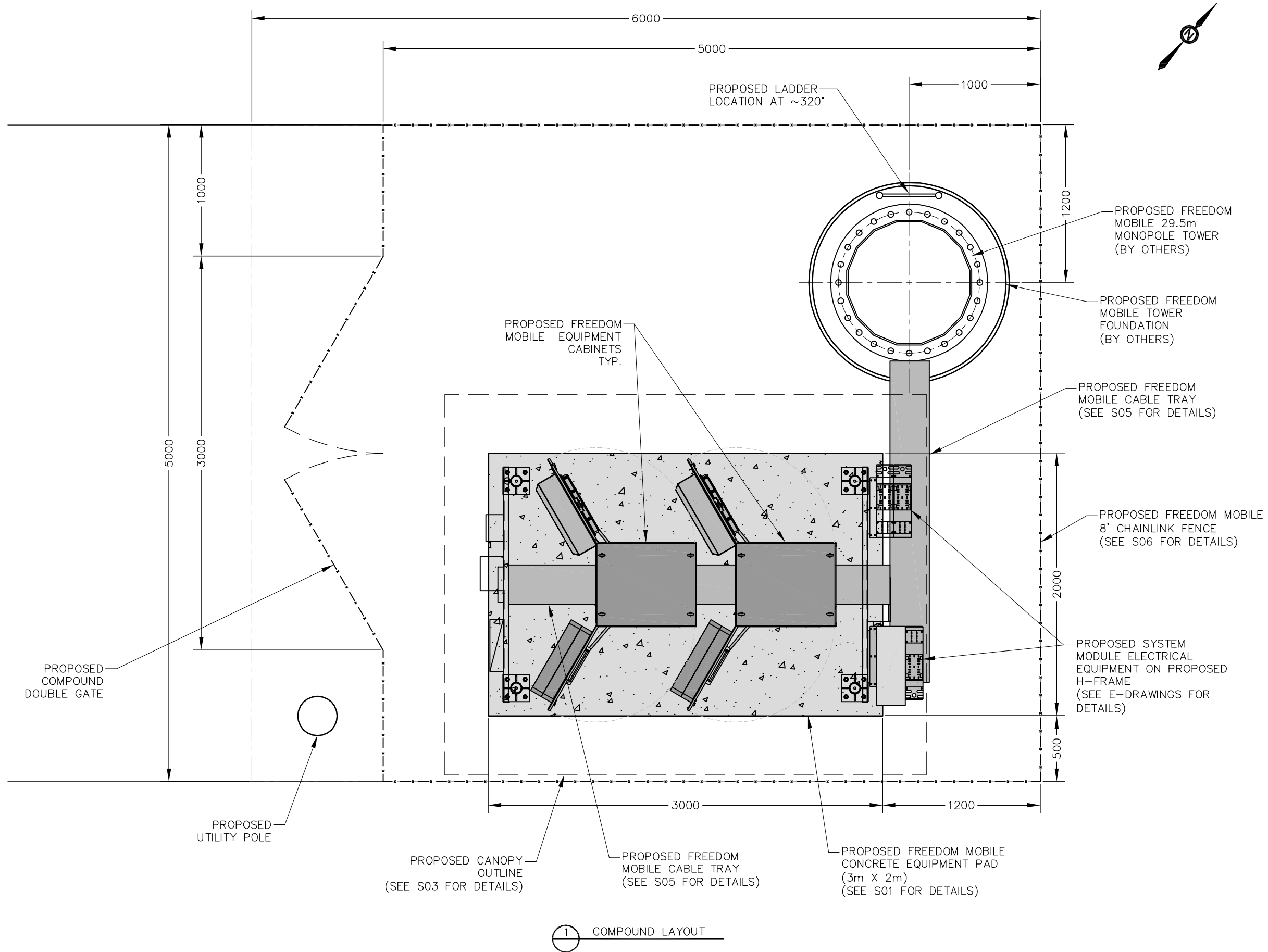


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WEST**
744 WEST HASTINGS ST,
SUITE 219
VANCOUVER, BC V6C 1A5
TEL: (778)300-1233
VANCOUVER - EDMONTON - CALGARY

LOCATION:
3778 KONRATH RD., PRINCE GEORGE, B.C.

TITLE:
SITE PLAN

PROJECT NAME: NEW SITE – GREENFIELD	PROJECT NO: BPG0010B	DWG. NO: A02
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NOTES:
1. COMPOUND PLAN OBTAINED FROM SITE VISIT BY ROEHAMPTON COMMUNICATIONS, DATED 07 AUG 2018.

CIENT:

CARRIER:

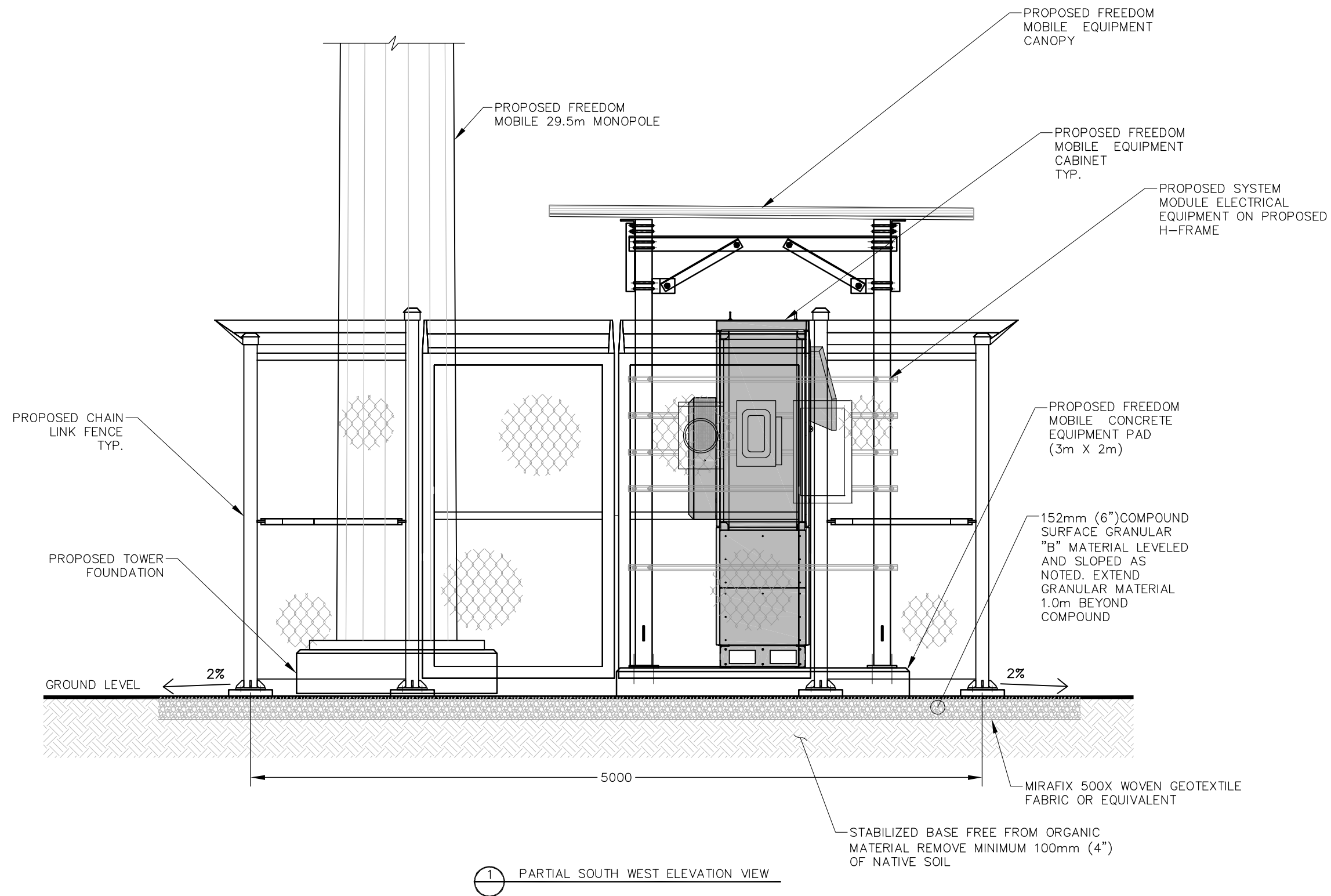
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0	CD	ISSUED FOR CONSTRUCTION	03 DEC 18
NO.	BY	DESCRIPTION	DATE

ROEHAMPTON WEST
744 WEST HASTINGS ST,
SUITE 219
VANCOUVER, BC V6C 1A5
TEL: (778)300-1233
VANCOUVER - EDMONTON - CALGARY

LOCATION:
3778 KONRATH RD., PRINCE GEORGE, B.C.

TITLE:
COMPOUND LAYOUT

PROJECT NAME: NEW SITE - GREENFIELD	PROJECT NO: BPG0010B	DWG. NO: A03
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NOTES:

1. COMPOUND PLAN OBTAINED FROM SITE VISIT BY ROEHAMPTON COMMUNICATIONS, DATED 07 AUG 2018.

CLIENT:

CARRIER:



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0	CD	ISSUED FOR CONSTRUCTION	03 DEC 18
NO.	BY	DESCRIPTION	DATE



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744 WEST HASTINGS ST,
SUITE 219
VANCOUVER, BC V6C 1A5
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LOCATION:
3778 KONRATH RD., PRINCE GEORGE, B.C.

TITLE:
PARTIAL SOUTH WEST ELEVATION VIEW

PROJECT NAME: NEW SITE - GREENFIELD	PROJECT NO: BPG0010B	DWG. NO: A04
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CONCRETE VOLUME: ±1.2cu m

- NOTE:
1. ALL DIMENSIONS IN mm.
 2. REMOVE TOP OF SOIL MATERIAL
 3. COMPACT ALL LAYERS TO 95% SPD

- NOTE:
1. FOUNDATION DESIGN BASED ON NORMAL SOIL CONDITIONS. FINAL DESIGN WILL BE BASED ON SOIL REPORT.
 2. CONCRETE STRENGTH – 30MPa.
 3. REINF. TO CSA G30.18 GRADE 400.
 4. CONC. WORKS TO CSA A23.1, 23.2 & 23.3
 5. INSTALLATION MUST MEET ALL REQUIREMENTS OF FREEDOM MOBILE SPECIFICATIONS CONSTRUCTION REQUIREMENTS.

CLIENT:

CARRIER:



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0	CD	ISSUED FOR CONSTRUCTION	03 DEC 18
NO.	BY	DESCRIPTION	DATE



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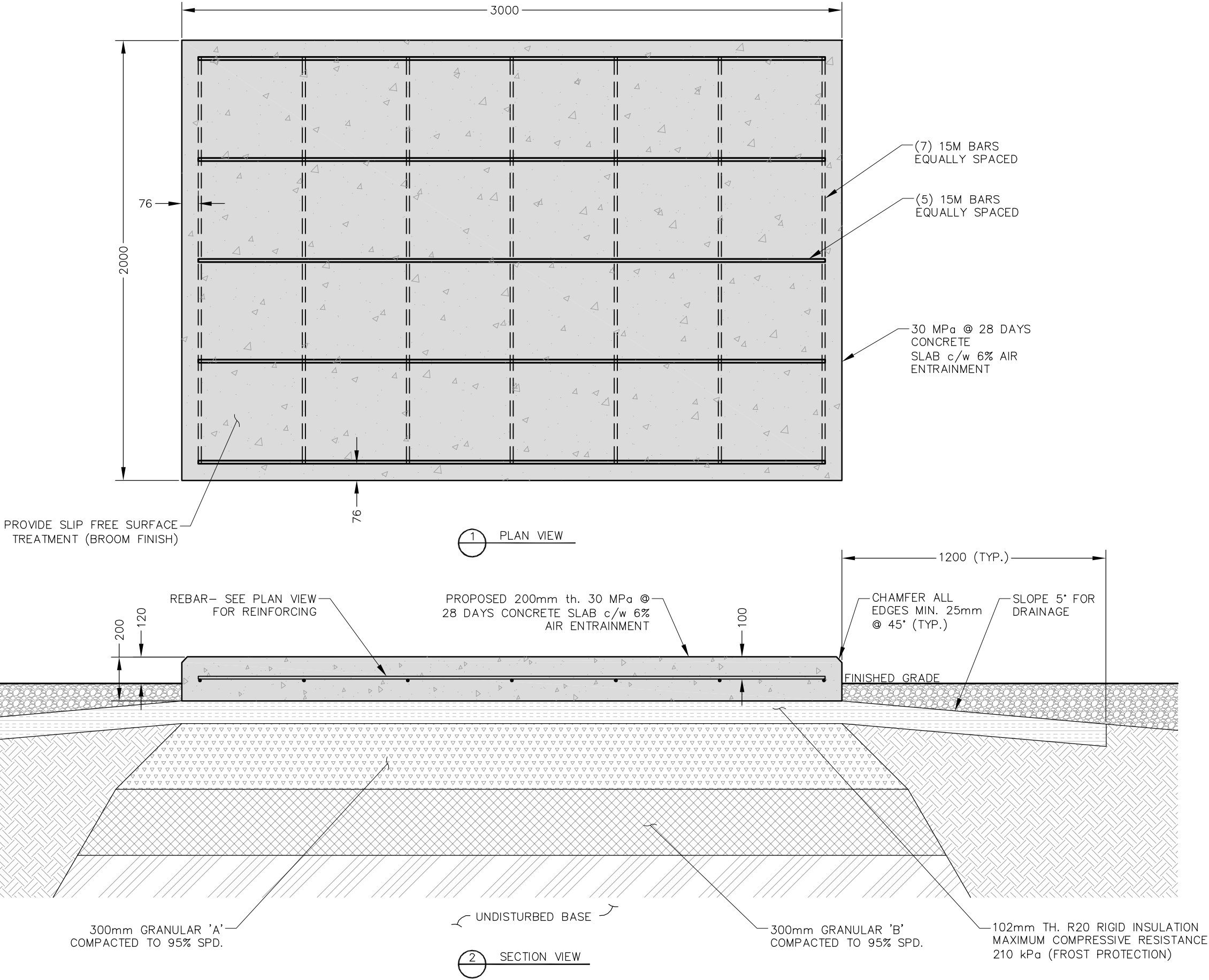
LOCATION:
3778 KONRATH RD., PRINCE GEORGE, B.C.

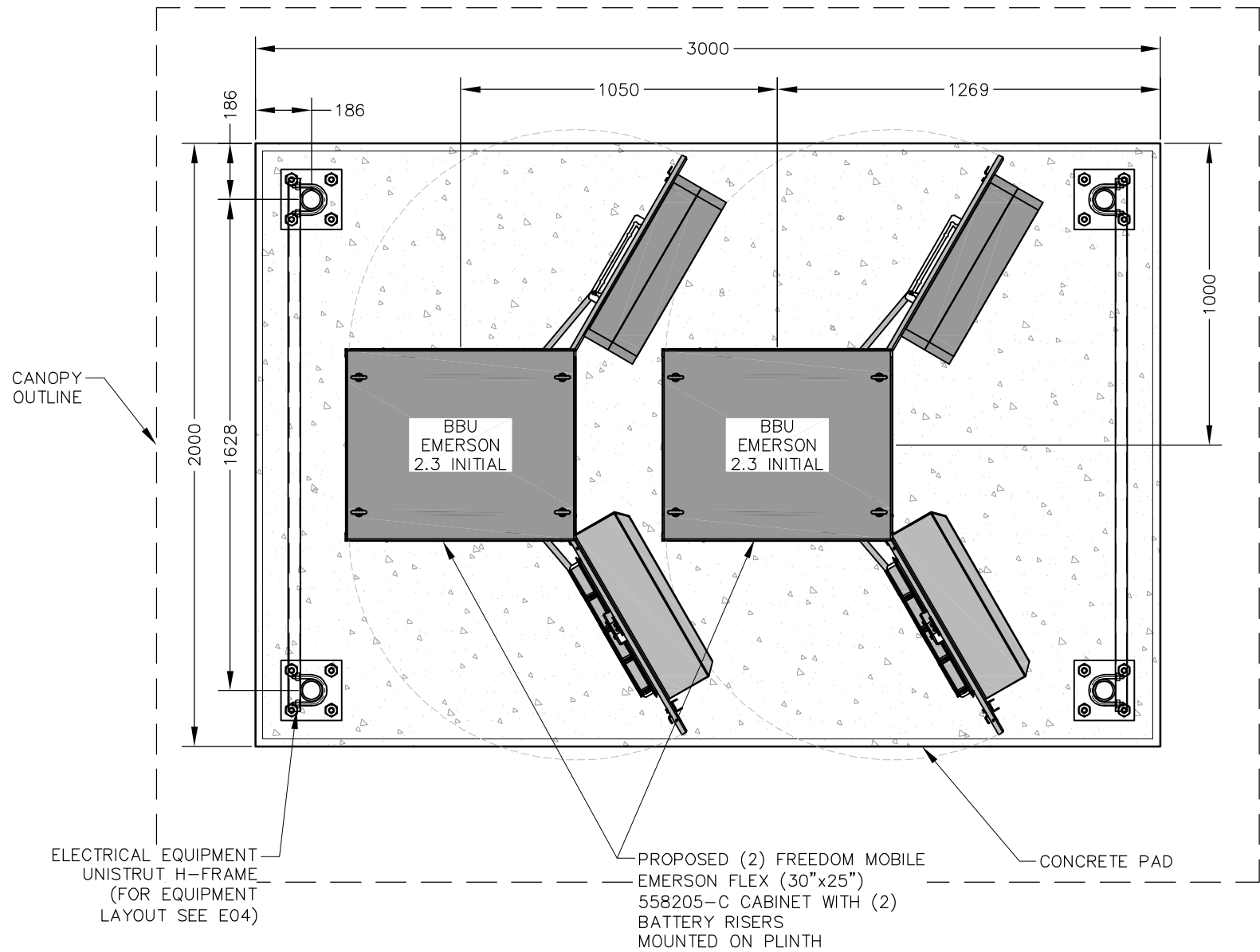
TITLE:
EQUIPMENT FOUNDATION

PROJECT NAME:
NEW SITE – GREENFIELD

PROJECT NO:
BPG0010B

DWG. NO:
S01





1 EQUIPMENT LAYOUT

NOTES:


1. DO NOT SCALE DRAWINGS. ALL DIMENSIONS ARE IN MM UNLESS NOTED OTHERWISE.
2. ALL WORK TO CONFORM TO LATEST FREEDOM MOBILE SPEC.
3. CONTRACTOR TO VERIFY ALL DIMENSIONS.
4. ALL U-BOLTS 1/2 ϕ ASSY (4N,2W) UNLESS NOTED.
5. ALL BOLTS 5/8 ϕ A325 BOLT ASSY'S UNLESS NOTED.
6. ALL STRUCTURAL BOLTS TO BE GRADE A325 WITH FLAT WASHER UNLESS NOTED.
7. ALL OTHER BOLT AND THREADED ROD CONNECTIONS ARE TO USE FLAT WASHERS WITH EITHER DOUBLE NUT OR SINGLE NUT WITH LOCK WASHER.
8. ALL U-BOLTS TO BE AISI C1018, COLD ROLLED, GALVANIZED TENSILE STRENGTH TO BE 63 KSI

CLIENT:

CARRIER:



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NO.	BY	DESCRIPTION	DATE



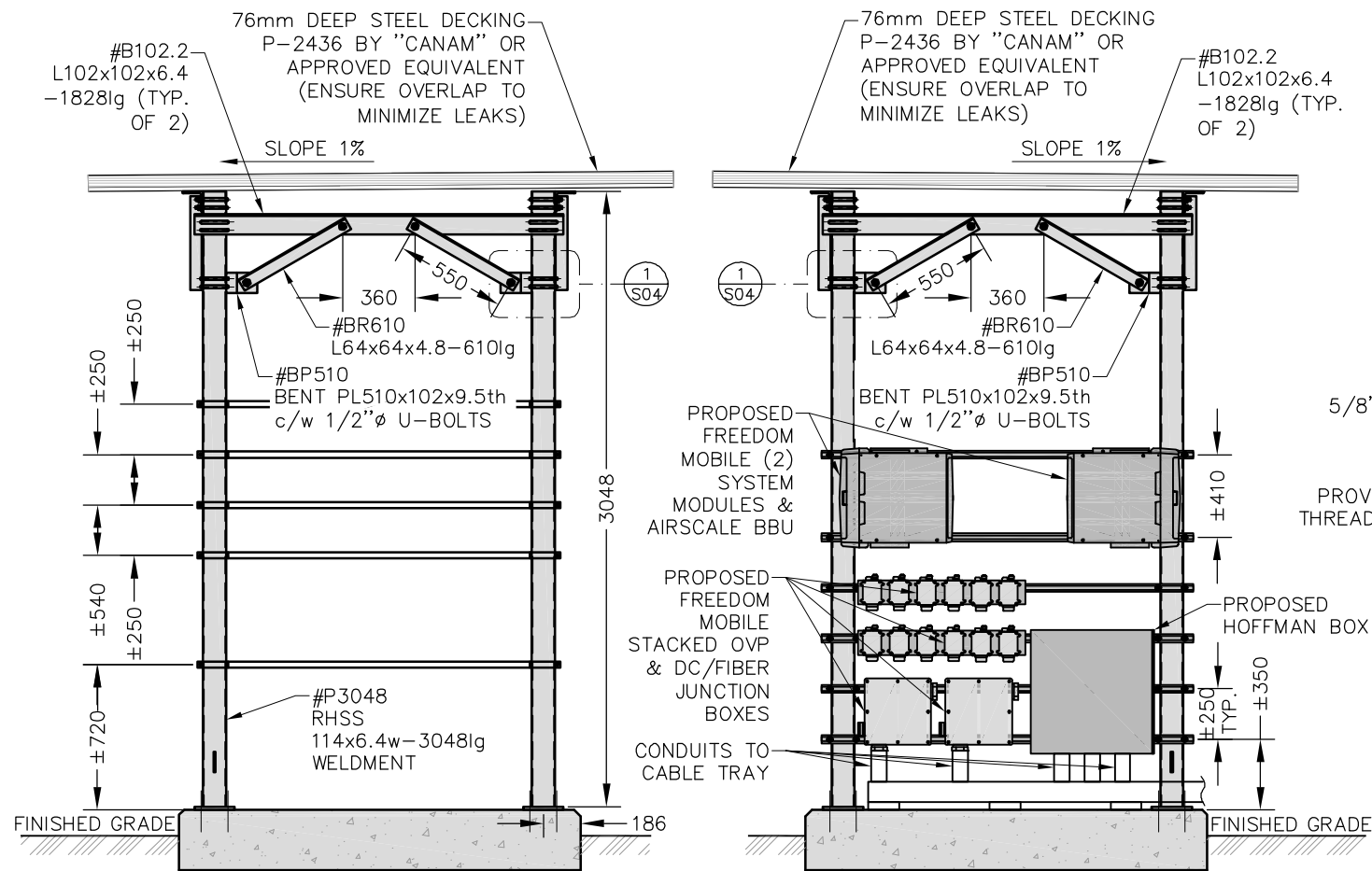
**ROEHAMPTON
WEST**
744 WEST HASTINGS ST,
SUITE 219
VANCOUVER, BC V6C 1A5
TEL: (778)300-1233
VANCOUVER - EDMONTON - CALGARY

LOCATION:
3778 KONRATH RD., PRINCE GEORGE, B.C.

TITLE:
EQUIPMENT LAYOUT

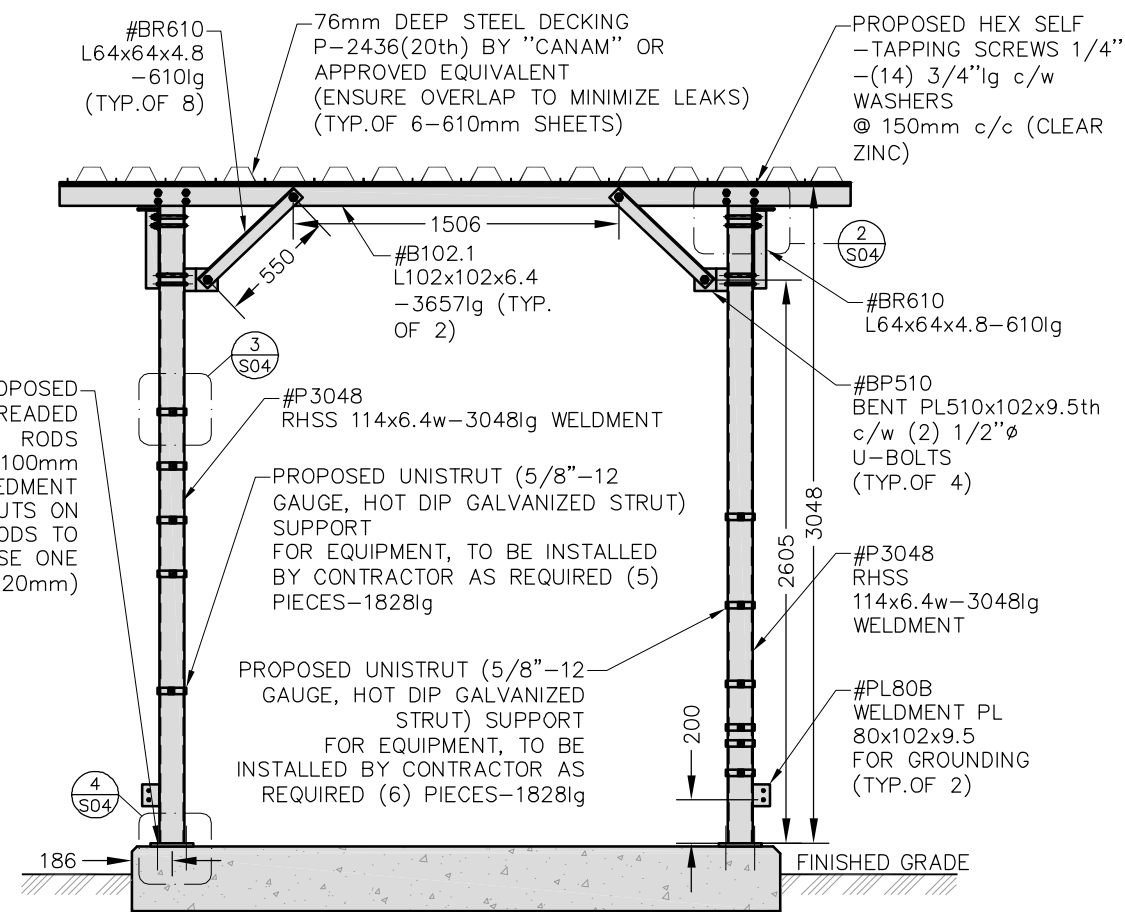
PROJECT NAME: NEW SITE - GREENFIELD	PROJECT NO: BPG0010B	DWG. NO: S02
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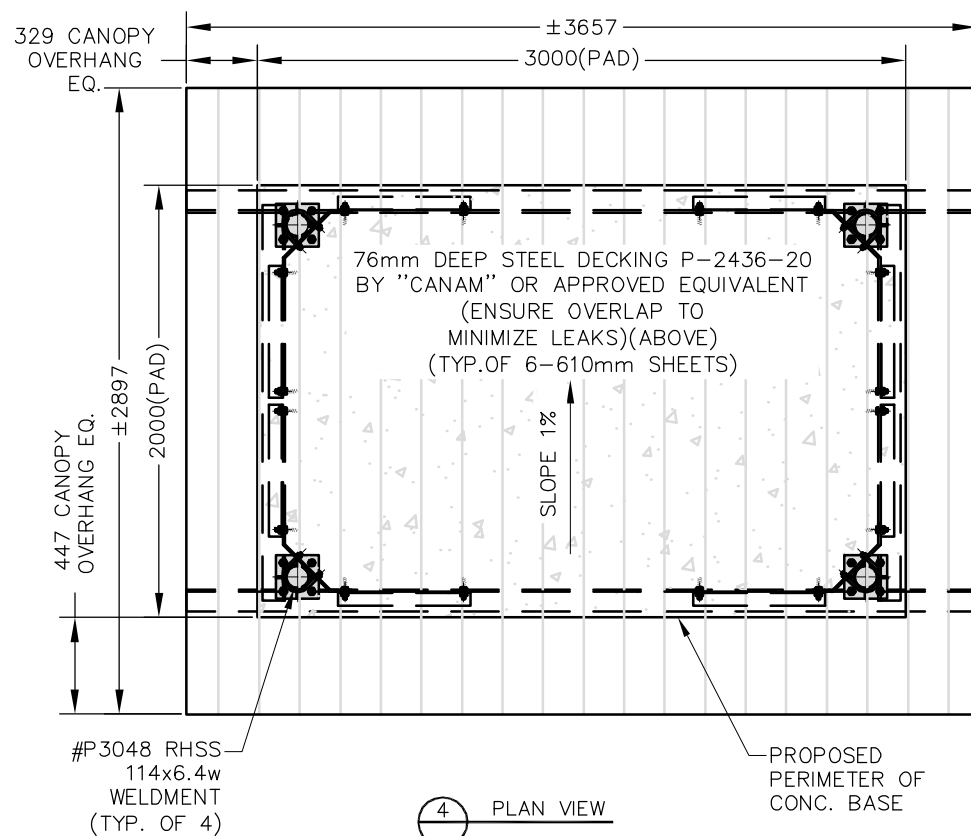


1 ELEVATION VIEW -SIDE

2 ELEVATION VIEW -SIDE



3 ELEVATION VIEW -SIDE



4 PLAN VIEW

FABRICATED PARTS					
ITEM	QTY	PART NO.	DESCRIPTION	UNIT WT	SUBTOTAL
1	4	#P3048	RHSS 114x6.4-3048lg WELDMENT	57.00	228.00
2	2	#B102.1	L102x102x6.4-3660lg	36.05	72.10
3	2	#B102.2	L102x102x6.4-1828lg	18.00	36.00
4	8	#BR610	L64x64x4.8-610lg	2.78	22.24
5	4	#BP510	BENT PL510x102x9.5th	3.70	14.80
6	6	P-2436-20	STEEL DECKING 76mm DEEP 9.5'lg	24.83	148.98
7	11	US-1828	UNISTRUT 5/8"-12 GAUGE 1828lg	3.45	37.95
TOTAL WEIGHT					560.07

HARDWARE		
ITEM	QTY	DESCRIPTION
1	46	1/2" U-BOLT FOR 114Ø ASSY (4N, 2W) , HDG
2	16	5/8" x 10" THREADED ROD ASSY, HDG
3	16	5/8" x 2 1/4" A325 BOLT ASSY, HDG

NOTES:

- DO NOT SCALE DRAWINGS. ALL DIMENSIONS ARE IN MM UNLESS NOTED OTHERWISE.
- ALL WORK TO CONFORM TO LATEST FREEDOM MOBILE SPEC.
- CONTRACTOR TO VERIFY ALL DIMENSIONS.
- ALL U-BOLTS 1/2Ø ASSY (4N,2W) UNLESS NOTED.
- ALL BOLTS 5/8Ø A325 BOLT ASSY'S UNLESS NOTED.
- ALL STRUCTURAL BOLTS TO BE GRADE A325 WITH FLAT WASHER UNLESS NOTED.
- ALL OTHER BOLT AND THREADED ROD CONNECTIONS ARE TO USE FLAT WASHERS WITH EITHER DOUBLE NUT OR SINGLE NUT WITH LOCK WASHER.
- ALL U-BOLTS TO BE AISI C1018, COLD ROLLED, GALVANIZED TENSILE STRENGTH TO BE 63 KSI

CLIENT:

CARRIER:



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0	CD	ISSUED FOR CONSTRUCTION	03 DEC 18
NO.	BY	DESCRIPTION	DATE



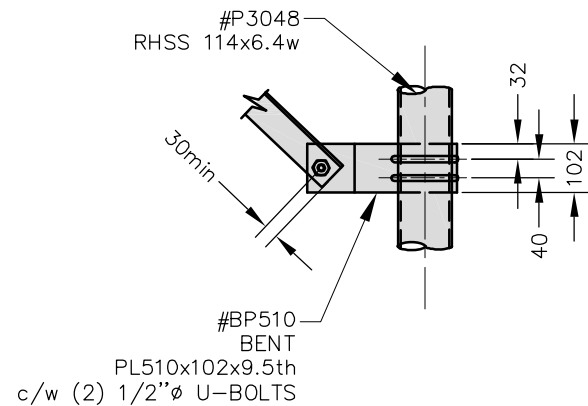
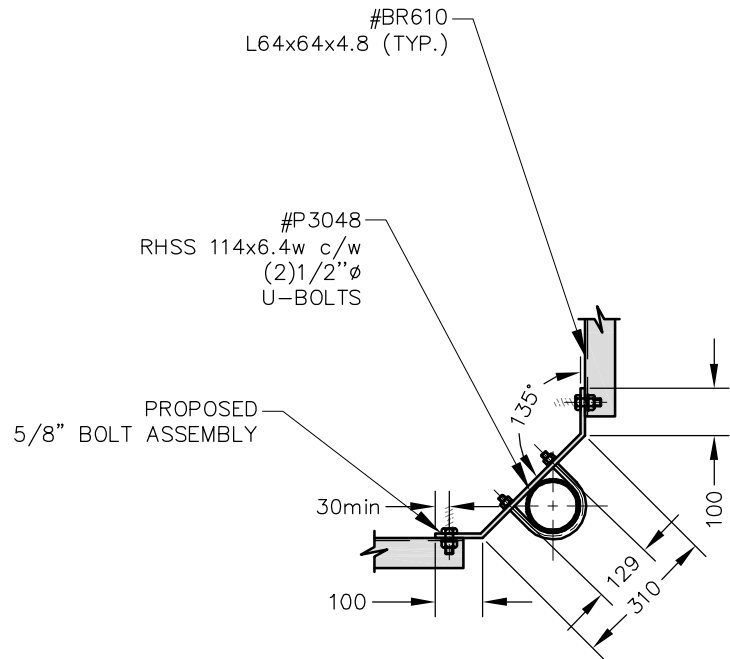
ROEHAMPTON

WEST
744 WEST HASTINGS ST,
SUITE 219
VANCOUVER, BC V6C 1A5
TEL: (778)300-1233
VANCOUVER - EDMONTON - CALGARY

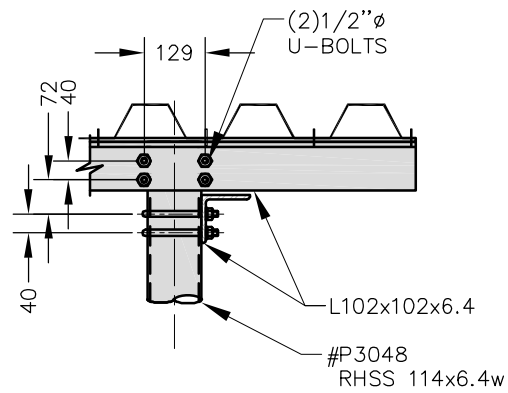
LOCATION:
3778 KONRATH RD., PRINCE GEORGE, B.C.

TITLE:
EQUIPMENT CANOPY

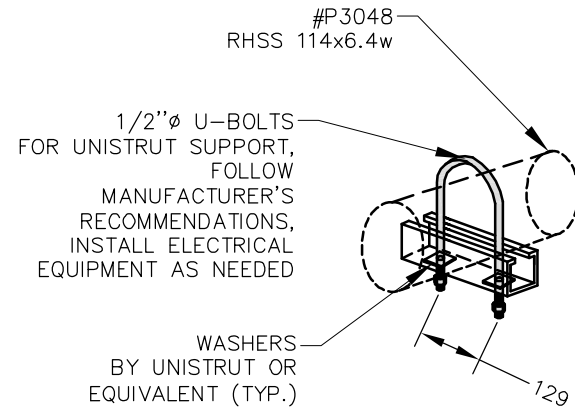
PROJECT NAME:	PROJECT NO:	DWG. NO:
NEW SITE - GREENFIELD	BPG0010B	S03



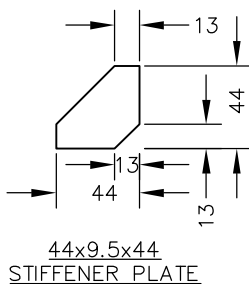
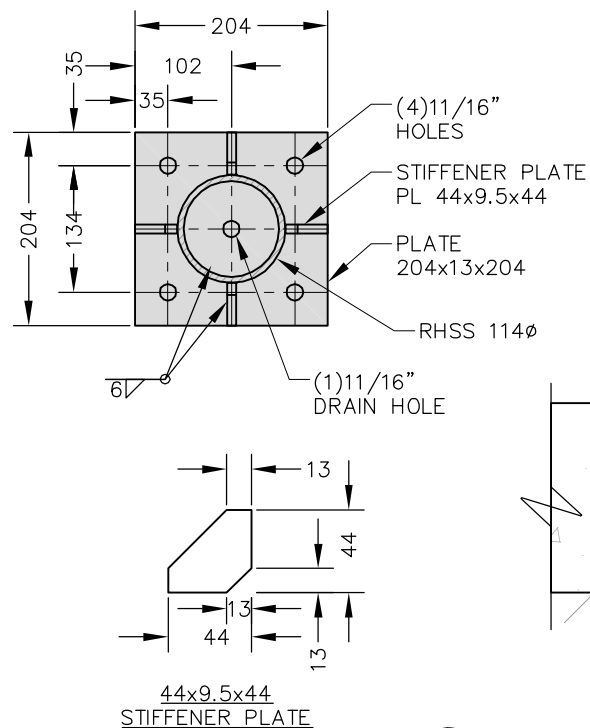
1 BRACE CONNECTION DETAIL



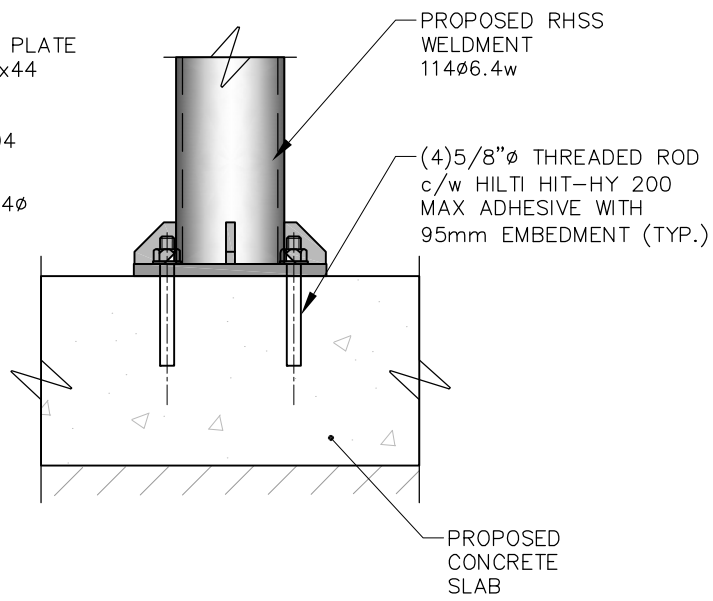
2 CANNOPY SUPPORT



3 UNISTRUT CONNECTION



4 POST CONNECTION DETAIL




- NOTES:
1. DO NOT SCALE DRAWINGS. ALL DIMENSIONS ARE IN MM UNLESS NOTED OTHERWISE.
 2. ALL WORK TO CONFORM TO LATEST FREEDOM MOBILE SPEC.
 3. CONTRACTOR TO VERIFY ALL DIMENSIONS.
 4. ALL U-BOLTS 1/2" ASSY (4N,2W) UNLESS NOTED.
 5. ALL BOLTS 5/8" A325 BOLT ASSY'S UNLESS NOTED.
 6. ALL STRUCTURAL BOLTS TO BE GRADE A325 WITH FLAT WASHER UNLESS NOTED.
 7. ALL OTHER BOLT AND THREADED ROD CONNECTIONS ARE TO USE FLAT WASHERS WITH EITHER DOUBLE NUT OR SINGLE NUT WITH LOCK WASHER.
 8. ALL U-BOLTS TO BE AISI C1018, COLD ROLLED, GALVANIZED TENSILE STRENGTH TO BE 63 KSI

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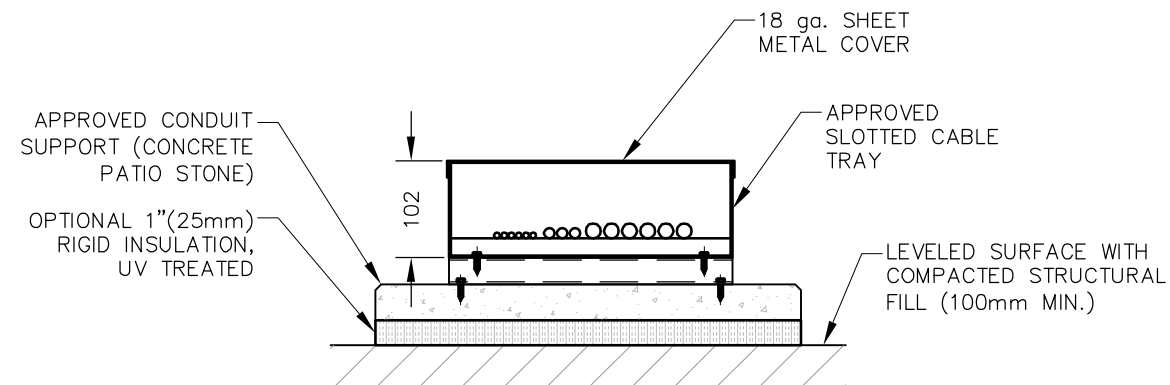


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LOCATION:
3778 KONRATH RD., PRINCE GEORGE, B.C.

TITLE:
CANOPY DETAILS

PROJECT NAME:NEW SITE - GREENFIELDPROJECT NO:BPG0010BDWG. NO:S04



1 MOUNTING DETAIL – GRADE

NOTES:

1. CABLE TRAY IS HOT DIP GALVANIZED SLOTTED STEEL LADDER TYPE–C (18 ga.) APOLLO SHEET METAL (WESTRAY) OR EQUIVALENT
2. CABLE TRAY WIDTHS ARE: MINIMUM 300mm AND SHALL BE SPACED MAX.: 2400mm, 1500mm, 1000mm APART RESPECTIVELY
3. CONTRACTOR TO PROVIDE ALL ELBOWS, TEES AND OTHER FITTINGS AS REQUIRED TO COMPLETE THE CABLE TRAY ROUTE
4. CABLE TRAY TO BE PAINTED TO MATCH BUILDING AS REQUIRED
5. FOR MOUNTING TO CONCRETE & MASONRY WALL USE HILTI KWIK–CON II 3/16"ø @ 1–3/4" EMBED.
6. CABLE TRAY COVER TO BE FASTENED WITH (1) STAINLESS STEEL SCREW AT EACH CORNER & ADDITIONAL SET OF SCREWS CENTERED IN TRAY SECTIONS 1000mm OR LARGER
7. ANY OPENING TO BE SEALED WITH WIRE MESH TO PREVENT RODENT ENTRY.

CLIENT:

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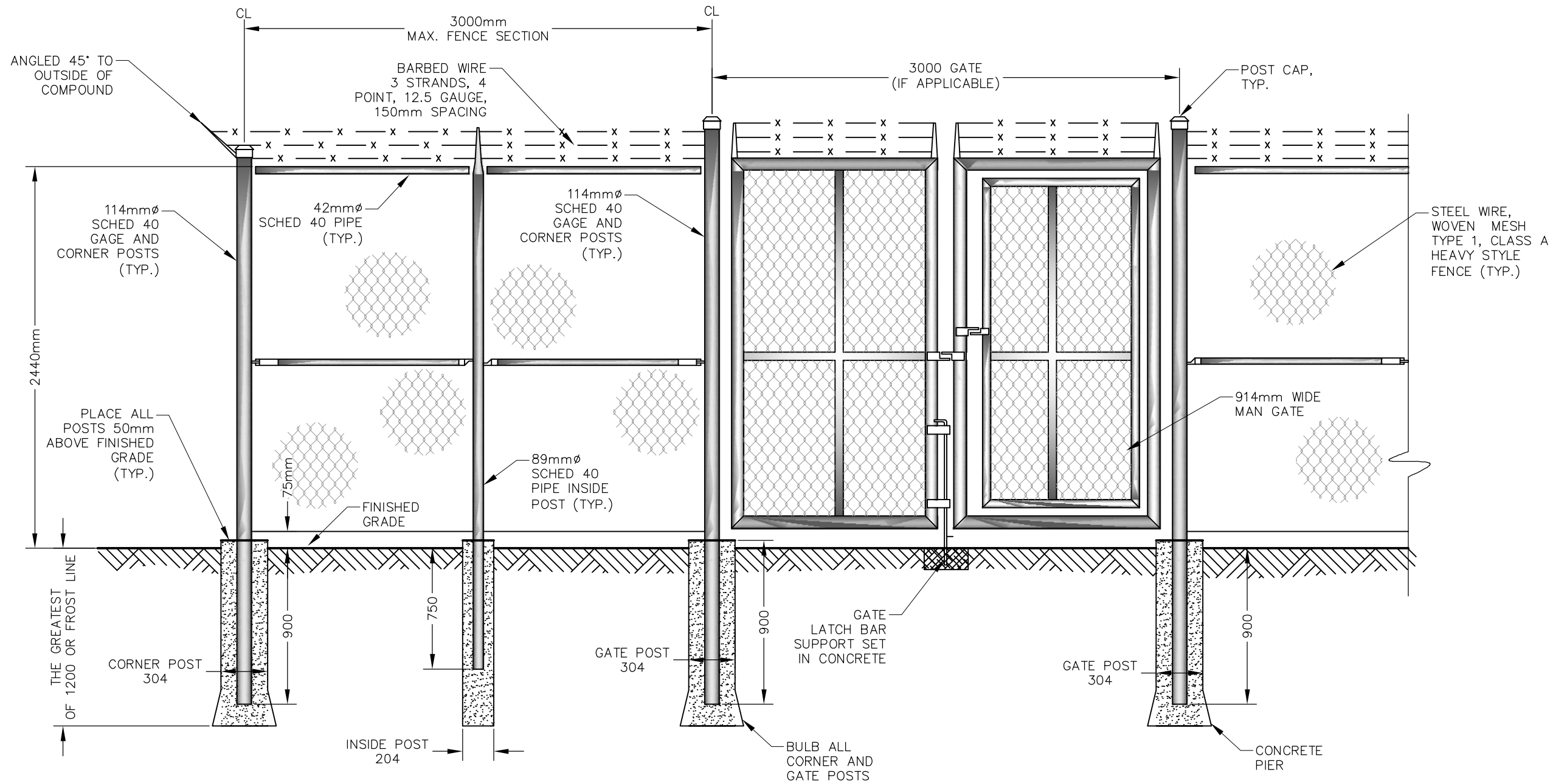


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LOCATION:
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TITLE:
CABLE TRAY DETAILS

PROJECT NAME:	PROJECT NO:	DWG. NO:
NEW SITE – GREENFIELD	BPG0010B	S05



NOTES:

1. DO NOT SCALE DRAWINGS.
2. ALL WORK TO LATEST VERSION OF FREEDOM MOBILE SPECIFICATIONS.
3. ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE.
4. FOR EXACT POST SPACING, REFER TO COMPOUND PLAN.

CLIENT:

CARRIER:



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LOCATION:
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TITLE:
FENCING DETAILS

PROJECT NAME: NEW SITE - GREENFIELD	PROJECT NO: BPG0010B	DWG. NO: S06
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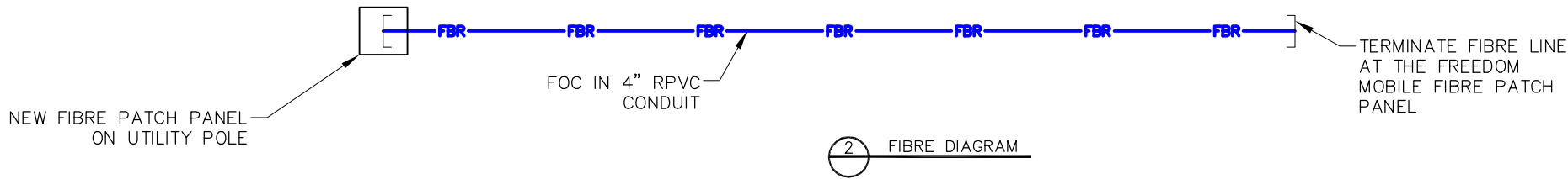
LEGEND – GENERAL SYMBOLS	
	NORTH ARROW (TRUE)
	DRAWING TITLE
	SECTION/DETAIL
	PARTIAL DETAIL
	REVISION CLOUD
	INSTALLED INSTALLATION

LEGEND – DISTRIBUTION	
	EXISTING POLE LOCATION – TO BE RETAINED
	EXISTING POLE LOCATION – TO BE REPLACED
	INSTALLED POLE LOCATION
	INSTALLED OVERHEAD DISTRIBUTION LINE (CURRENT CARRYING CONDUCTORS INDICATED)
	EXISTING OVERHEAD DISTRIBUTION LINE (CURRENT CARRYING CONDUCTORS INDICATED)
	INSTALLED ANTENNA
	MICROWAVE DISH ANTENNA
	TRANSIENT VOLTAGE SURGE SUPPRESSOR
	SURGE ARRESTOR
	INSTALLED POWER BURIED
	GUY AND ANCHOR COMBINATION
	SPAN GUYS
	DISTRIBUTION POLE NUMBER
	DISTRIBUTION RISER POLE – THREE PHASE
	DISTRIBUTION RISER POLE – ONE PHASE
	PAD MOUNTED TRANSFORMER
	DISTRIBUTION TRANSFORMER
	MEDIUM VOLTAGE SINGLE FUSE
	MEDIUM VOLTAGE DOUBLE FUSE
	INSTALLED GROUND LEAD

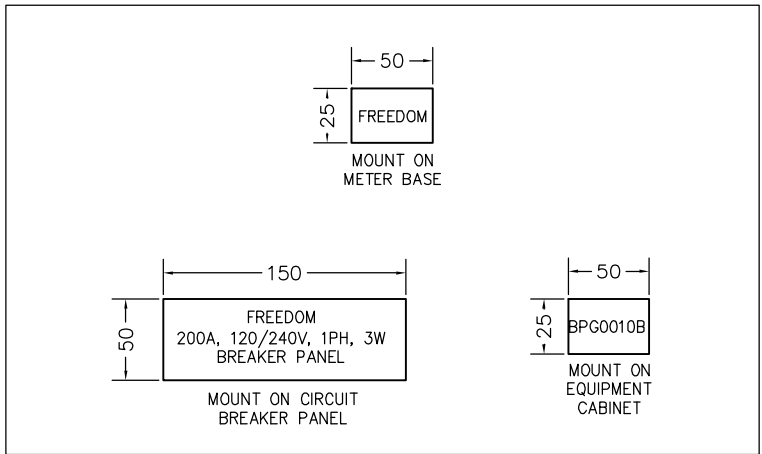
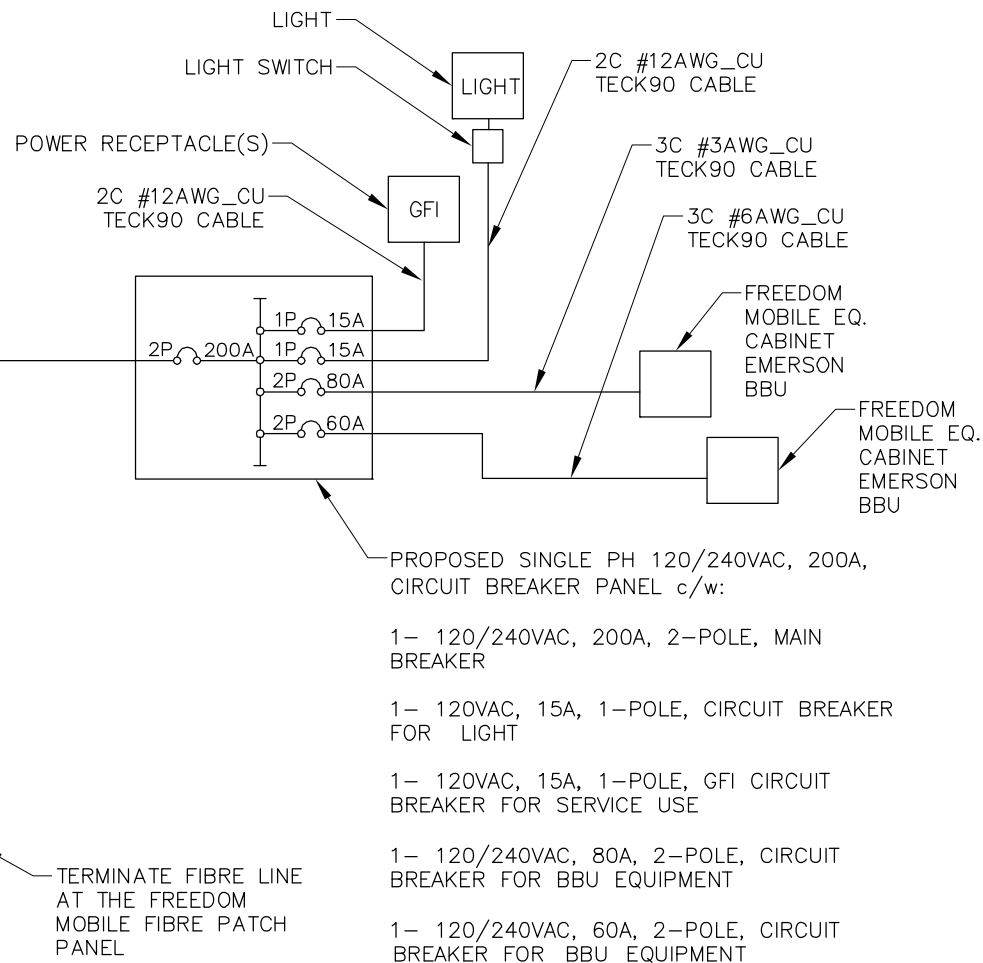
LEGEND – ELECTRICAL	
	JUNCTION BOX
	GROUND WYE CONNECTION
	DELTA CONNECTION
	MEDIUM VOLTAGE DISCONNECT SWITCH NON-FUSED CUTOUT
	MEDIUM VOLTAGE DISCONNECTING FUSE SINGLE FUSE CUTOUT
	MEDIUM VOLTAGE DISCONNECTING FUSE DOUBLE FUSE CUTOUT
	TRANSFORMER a= KVA RATING b= NUMBER OF PHASES c= PRIMARY VOLTAGE AND CONNECTION d= SECONDARY VOLTAGE AND CONNECTION
	AREA LIGHT
	CIRCUIT BREAKER
	CHECK METER
	PULL BOX
	UTILITY METER
	WEATHERHEAD

LEGEND – LAYOUT	
	RIGHT-OF-WAY
	DITCH LINE
	RAILROAD
	FENCE
	CONCRETE INLET
	FIBRE VAULT
	15A 120V DUPLEX RECEPTACLE
	15A 120V SPST SWITCH

CLIENT:			
CARRIER:			
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0	CD	ISSUED FOR CONSTRUCTION	03 DEC 18
NO.	BY	DESCRIPTION	DATE
ROEHAMPTON WEST 744 WEST HASTINGS ST, SUITE 219 VANCOUVER, BC V6C 1A5 TEL. (778)300-1233 VANCOUVER - EDMONTON - CALGARY			
LOCATION: 3778 KONRATH RD., PRINCE GEORGE, B.C.			
TITLE: LEGEND			
PROJECT NAME: NEW SITE – GREENFIELD		PROJECT NO: BPG0010B	DWG. NO: E01



1. ELECTRICAL INSTALLATION MUST COMPLY WITH THE LATEST ISSUES OF ALL APPLICABLE ELECTRICAL CODES, STANDARDS AND REGULATIONS.
2. IN CASE OF CONFLICT BETWEEN THIS DRAWING AND PLAN DRAWINGS OR MANUFACTURER'S SPECIFICATIONS, CONTRACTOR SHALL NOTIFY FREEDOM MOBILE REPRESENTATIVE
3. TECH CABLE TO BE SUPPORTED AT 1M INTERVALS
4. MAXIMUM MOUNTING HEIGHT OF TOP OF METER TO BE 1.6m FROM FINISHED FLOOR TO CENTER OF METER FACE +/-100MM
5. ALL CONDUCTORS TO BE COPPER RW90 RATED AT MINIMUM 75C (OR EQUIVALENT)
6. NEUTRAL CONDUCTOR MUST BE BROUGHT INTO AND TERMINATED IN EACH METER BASE
7. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL CONDUIT ROUTING WITH CONSTRUCTION MANAGER
8. DISCONNECT SWITCHES, FUSED AND NON-FUSED TYPE SHALL BE QUICK MAKE, QUICK BREAK ACTION IN EEMAC 1 ENCLOSURE FOR INDOOR INSTALLATION AND EEMAC 3R FOR OUTDOOR INSTALLATION UNLESS NOTED OTHERWISE.
9. REVENUE METER TO BE KILOWATT HOUR TYPE CUMULATIVE WITH VOLTAGE AND CURRENT RATINGS AS INDICATED. SUPPLIED BY FREEDOM CONTRACTOR.



1. ENSURE ALL ASPECTS OF WORK CONFORM TO FREEDOM MOBILE SPECIFICATION.
2. ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE.
3. READ THESE DRAWINGS IN CONJUNCTION WITH ALL OTHER CONTRACT DOCUMENTS.
4. CONTRACTOR TO VERIFY EXISTING CONDITIONS AND NOTIFY ROEHAMPTON COMMUNICATIONS LTD. ON ANY VARIATION WHICH HAVE IMPACT ON WORK TO BE CARRIED OUT.
5. ACTUAL ROUTE WILL BE DETERMINED AT THE DETAIL DESIGN PHASE.
6. CONNECTED LOAD SHOULD BE DISTRIBUTED AS EVENLY AS PRACTICAL.

PROPOSED = BY FREEDOM MOBILE
NEW = BY OTHERS

CARRIER



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SINGLE LINE DIAGRAM

E02

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1 ELECTRICAL ROUTE

NOTES:
1. SITE PLAN OBTAINED FROM SITE VISIT BY ROEHAMPTON COMMUNICATIONS, DATED 07 AUG 2018.

CLIENT:

CARRIER:


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LOCATION:
3778 KONRATH RD., PRINCE GEORGE, B.C.

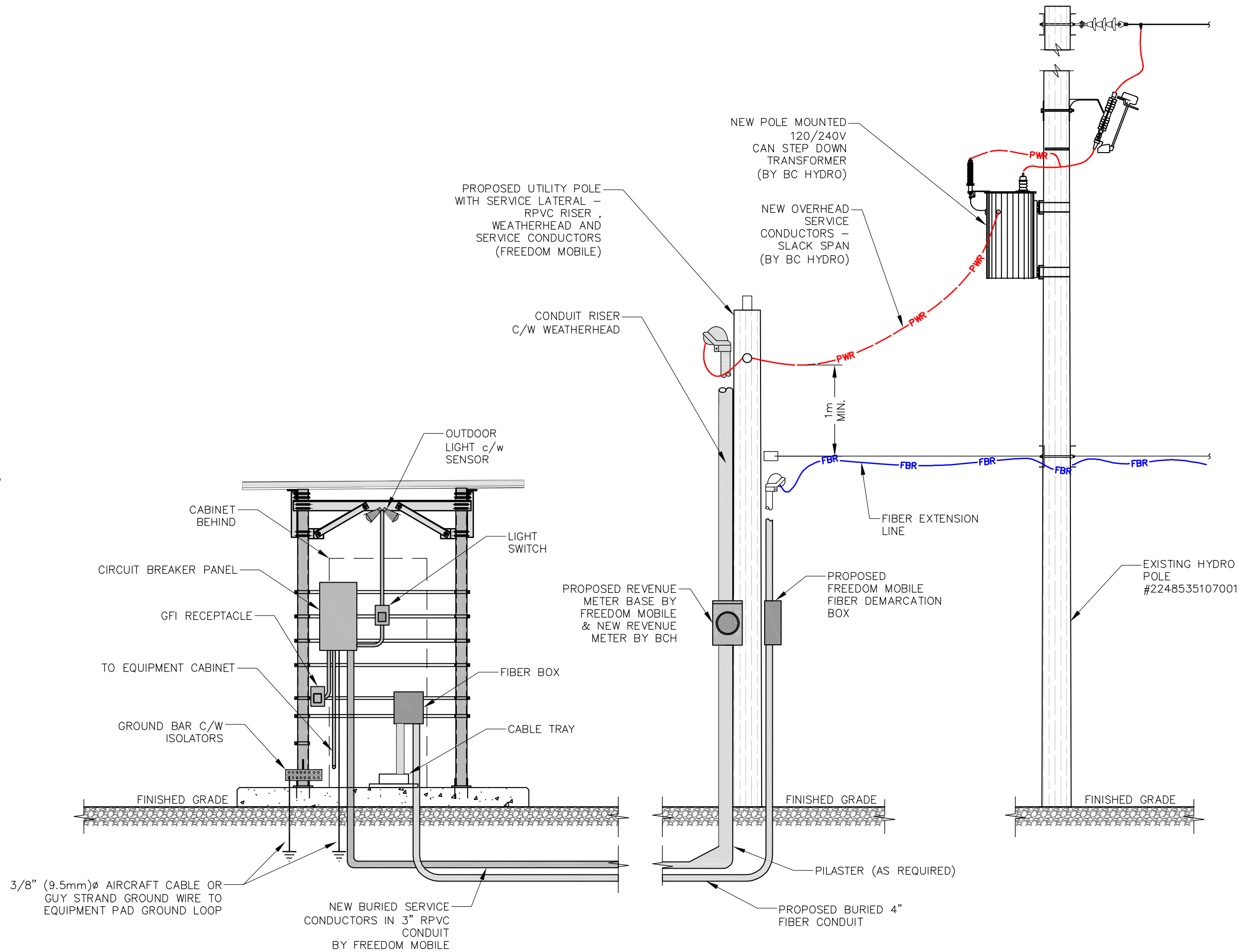
TITLE:
ELECTRICAL ROUTE

PROJECT NAME:
NEW SITE - GREENFIELD

PROJECT NO:
BPG0010B

DWG. NO:
E03

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1 ELECTRICAL FEED ELEVATION

CLIENT:

CARRIER:



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LOCATION:
3778 KONRATH RD., PRINCE GEORGE, B.C.

TITLE:
ELECTRICAL FEED ELEVATION

PROJECT NAME:
NEW SITE - GREENFIELD

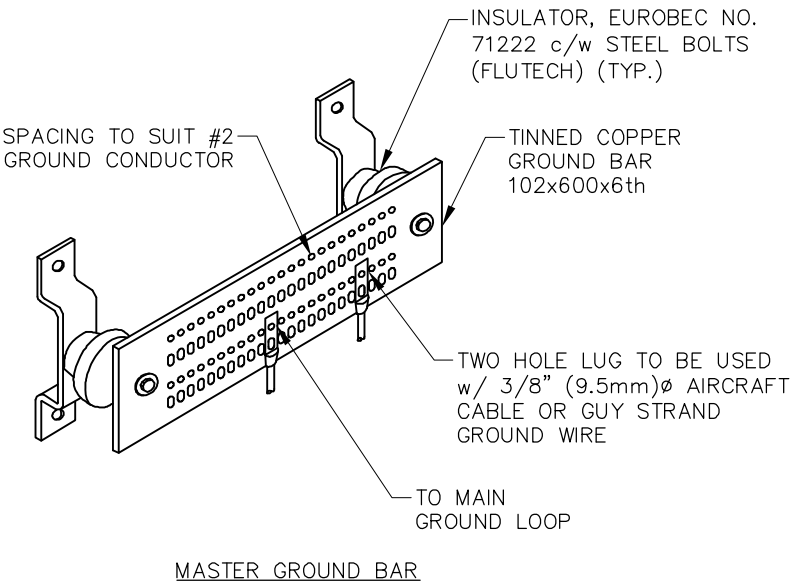
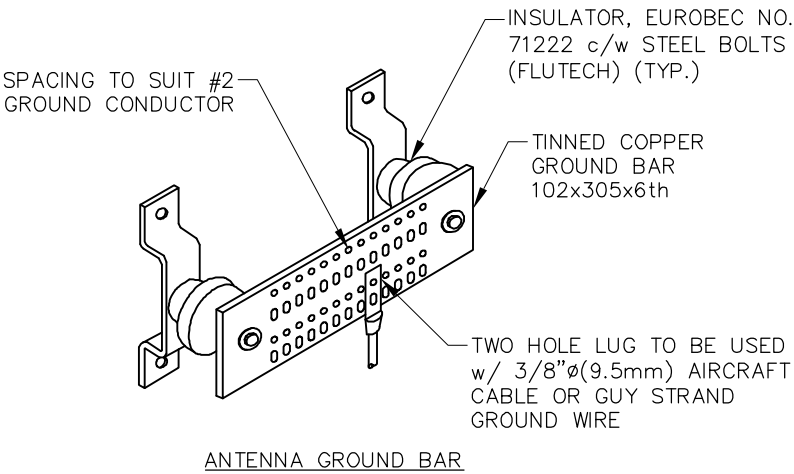
PROJECT NO:
BPG0010B

DWG. NO:
E04

1. ALL HOLES MUST BE SUITABLE FOR CONNECTIONS OF THE LUGS.
2. COVER TIPS, LUGS AND COPPER GROUND BARS WITH "PENETROX E" FROM "BURNDY" OR "KOPR-SHIELD" FROM "T&B"
3. INSTALL 2-HOLE COMPRESSION LUGS "BURNDY/HYTUG TYPE YAL2T FOR GROUND CONDUCTORS c/w DURIUM BOLTS, NUTS AND WASHERS OR EQUIVALENT.
4. THE MGB SHALL INCLUDE HOLES FOR 2 #2 CABLE.
5. ALL GROUNDING CONNECTIONS TO CONFORM TO MANUFACTURERS AND FREEDOM MOBILE 'GREENFIELD TECHNICAL SPECIFICATIONS'.


16M (50') TO 45M (150') - #10 AWG
45M (151') TO 75M (250') - #8 AWG
75M (251') TO 95M (310') - #6 AWG

1. FIBRE OPTIC BENDING RADIUS SHALL BE AS PER MANUFACTURER RECOMMENDATION.
2. ALL SWEEP ELBOWS TO ACCOMMODATE FIBRE OPTIC INSTALLATION.



3 GROUNDING BAR DETAILS

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NO.	BY	DESCRIPTION	DATE

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LOCATION: 3778 KONRATH RD., PRINCE GEORGE, B.C.			
TITLE: GROUNDING DIAGRAM			
PROJECT NAME: NEW SITE – GREENFIELD	PROJECT NO: BPG0010B		DWG. NO: E05

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COMPOUND GROUNDING NOTES:

GENERAL

1. THE GROUND PERFORMANCE REQUIREMENT FOR A SITE IS 5 OHMS OR LESS.
2. FOLLOWING INSTALLATION, THE CONTRACTOR MUST SUBMIT THE TEST RESULTS OF THE GROUND SYSTEM PERFORMANCE.
3. REFER TO FREEDOM MOBILE SPECIFICATIONS MANUAL FOR ALL GROUNDING INSTALLATIONS.

BURIED GROUND RING

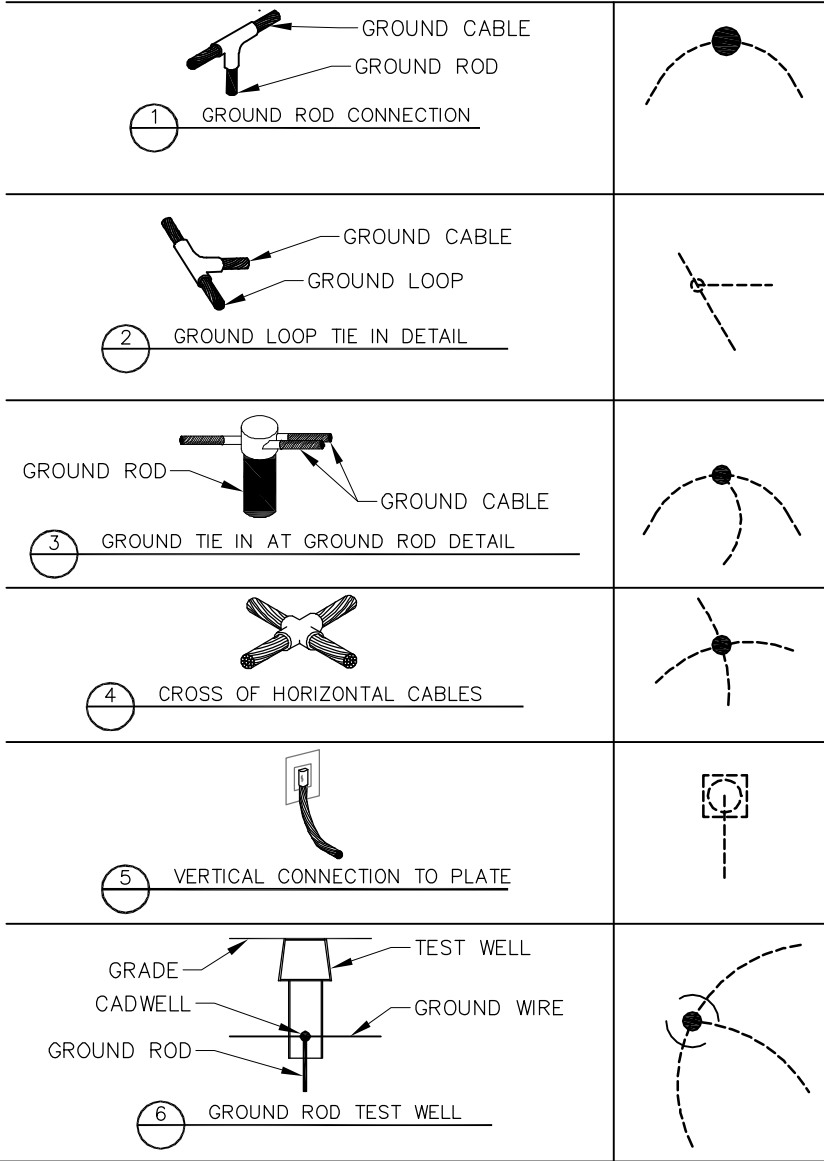
4. THE RING GROUND SHALL BE INSTALLED AT AN APPROXIMATE DISTANCE OF 2 FEET (610 mm) FROM THE EDGE OF A FOUNDATION AND BURIED TO FREEDOM MOBILE 'GREENFIELD TECHNICAL SPECIFICATIONS' MANUAL.
5. ALL BELOW GRADE INSTALLATIONS SHALL BE DOCUMENTED AND PHOTOGRAPHED BEFORE BACK-FILLING. THE PHOTOGRAPHS ARE TO BE KEPT AS PART OF SITE'S RECORD.

GROUNDING CONNECTIONS

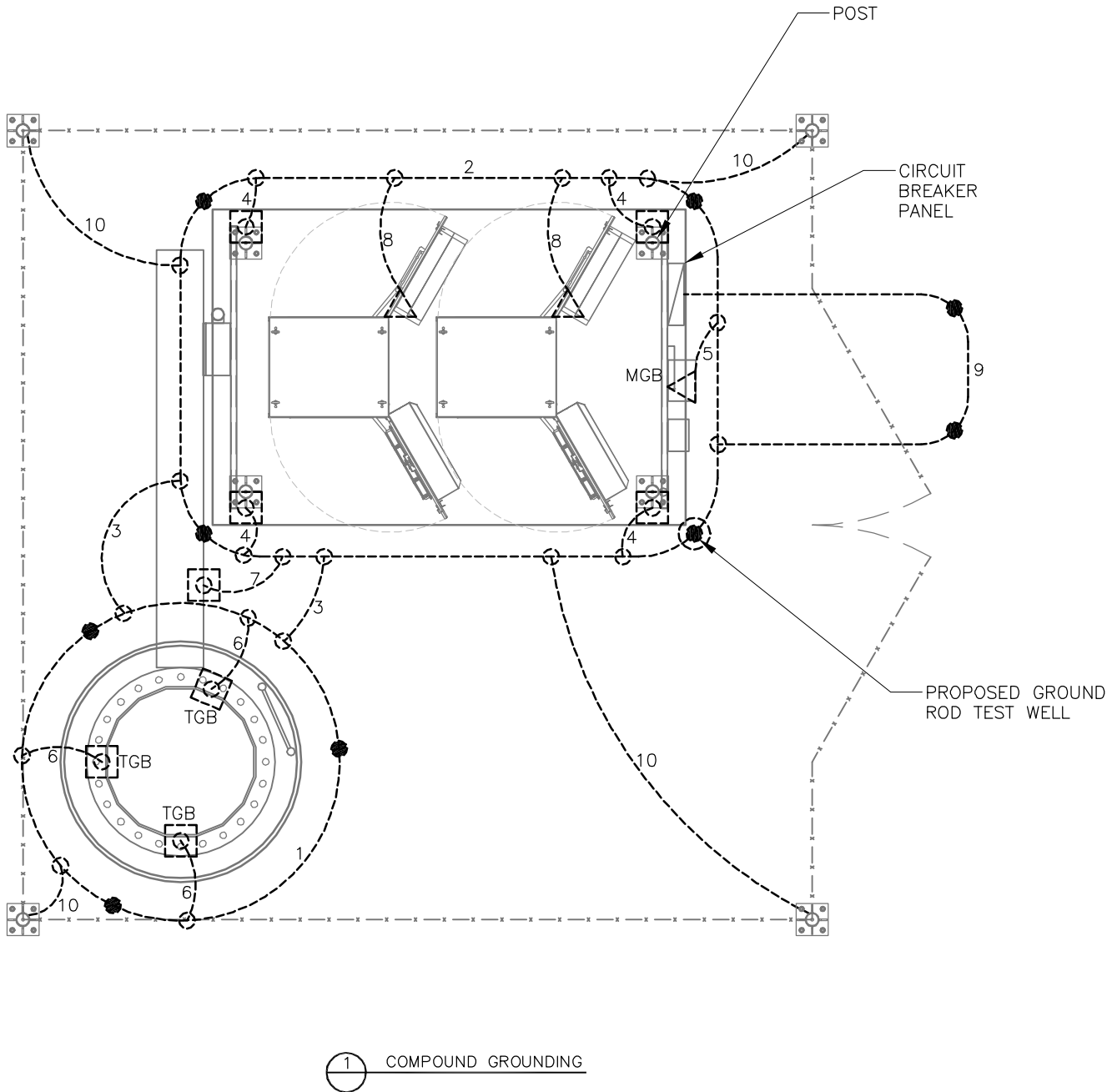
6. ALL UNDERGROUND CONNECTIONS SHALL BE MADE USING COMPRESSION GROUNDING CONNECTORS (EZGROUND CTP2020TP C-TAP/THOMAS & BETTS OR EQUIVALENT).
7. THE BACK-FILL MATERIAL SHALL BE NON-CORROSIVE, LOW RESISTIVE, FREE OF STONES, DEBRIS, ETC., AND COMPACTED THOROUGHLY IN LAYERS NOT EXCEEDING 6 INCHES (150 MM) IN DEPTH, TO AT LEAST 95% OF ORIGINAL DENSITY BEFORE EXCAVATION.
8. THE GROUNDING AND BONDING CONNECTIONS ABOVE GRADE OR INTERIOR TO A BUILDING MAY BE MADE USING TINNED STRANDED COPPER, TWO-HOLE COMPRESSION TYPE LUGS.
9. ALL HARDWARE (E.G., NUTS, BOLTS, WASHERS, ETC.) SHALL BE STAINLESS STEEL.

ANTENNA SUPPORT GROUNDING








10. THE EQUIPMENT OR STRUCTURES THAT ARE LIKELY TO BE DAMAGED BY DIRECT LIGHTNING STRIKES SHALL BE EQUIPPED WITH AIR TERMINALS.



HARDWARE SPECIFICATION		
MIN. #2/0 TINNED STRANDED COPPER WIRE (B/C)		
3/8" GALV. AIRCRAFT CABLE OR GUY STRAND WIRE (G/S)		
SOLID COPPER, COPPER CLAD STEEL OR STAINLESS STEEL		
GROUND RODS: MIN. ø 15mm, MIN. 2440mm LONG (5/8", 8 ft)		
RUN#	TYPE	DESCRIPTION
1	#2/0 - B/C	TOWER LOOP
2	#2/0 - B/C	H-FRAME LOOP
3	#2/0 - B/C	LINK BETWEEN GROUND LOOPS
4	3/8" - G/S	LEAD TO ICE GUARD POST
5	3/8" - G/S	LEAD TO MAIN GROUND BAR
6	3/8" - G/S	LEAD TO TGB
7	3/8" - G/S	LEAD TO WAVEGUIDE BRIDGE OR CABLE TRAY
8	3/8" - G/S	LEAD TO THE CABINET
9	#2/0 - B/C	SERVICE ENTRANCE GROUND LOOP
10	3/8" - G/S	LEAD TO FENCE POST



LEGEND-EQUIPMENT SYMBOLS

-  - GROUND ROD
-  - CAD-WELDED CONNECTION
-  - COMPRESSION CONNECTION
-  - ABOVE GRADE GROUNDING CONNECTION
-  - 2/0 GROUND WIRE PER HARDWARE SPEC
-  - 3/8" GROUND WIRE PER HARDWARE SPEC
-  - GROUND ROD TEST WELL

- MGB - MAIN GROUND BAR
- TBG - TOWER BASE GROUND
- TGB - TOWER GROUND BAR

CLIENT:

CARRIER:



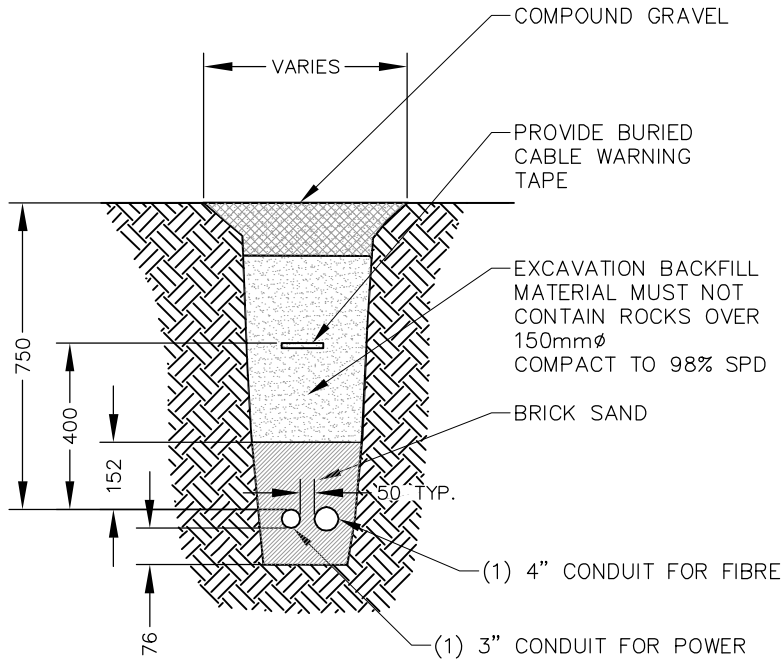
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LOCATION:
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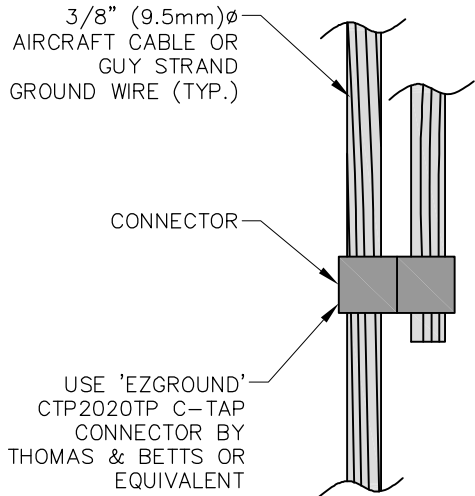
TITLE:
COMPOUND GROUNDING

PROJECT NAME:	PROJECT NO:	DWG. NO:
NEW SITE - GREENFIELD	BPG0010B	E06

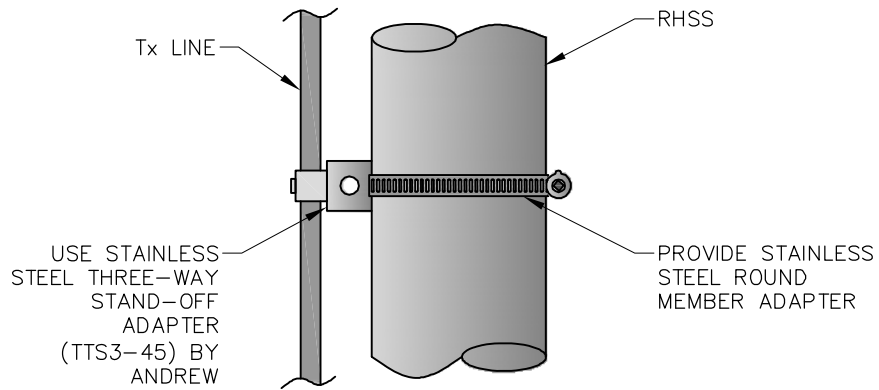


1 FREEDOM MOBILE TRENCHING DETAIL

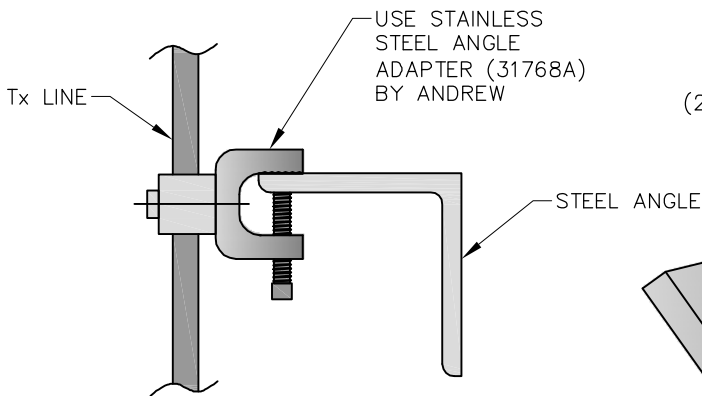
- BACKFILL MUST BE CLEAN AND FREE OF DEBRIS TO PROPERLY PROTECT THE DUCT AND TO PREVENT CRUSHING.
- FISH LINE A 1/4" POLYPROPYLENE (OR EQUIVALENT) FISH LINE MUST BE INSTALLED THROUGH THE ENTIRE LENGTH OF THE DUCT. THIS LINE IS USED TO INSTALL THE CABLE-PULLING ROPE THROUGH THE DUCT. YOUR CABLE INSTALLER MUST PROVIDE THE PULLING ROPE AND ANY OTHER ACCESSORIES (PULLING COMPOUNDS, ETC.) NEEDED TO INSTALL THE CABLE.
- ENDS OF TRENCH: THE CABLE INSTALLER MUST ENSURE THAT THE SERVICE CABLE IS FORMED INTO A SEMICIRCULAR LOOP BELOW THE PIPE (BENDING RADIUS NOT LESS THAN TEN TIMES CABLE DIAMETER) AT THE METER BASE AND POLE END. THIS LOOP WILL PREVENT DAMAGES DUE TO FROST MOVEMENT. THE ENDS OF THE CABLE ARE REQUIRED TO BE PROTECTED BY SAND PADDING ABOVE AND BELOW THE CABLING. SAND PADDING IS TO BE PROVIDED BY THE CIVIL CONTRACTOR.



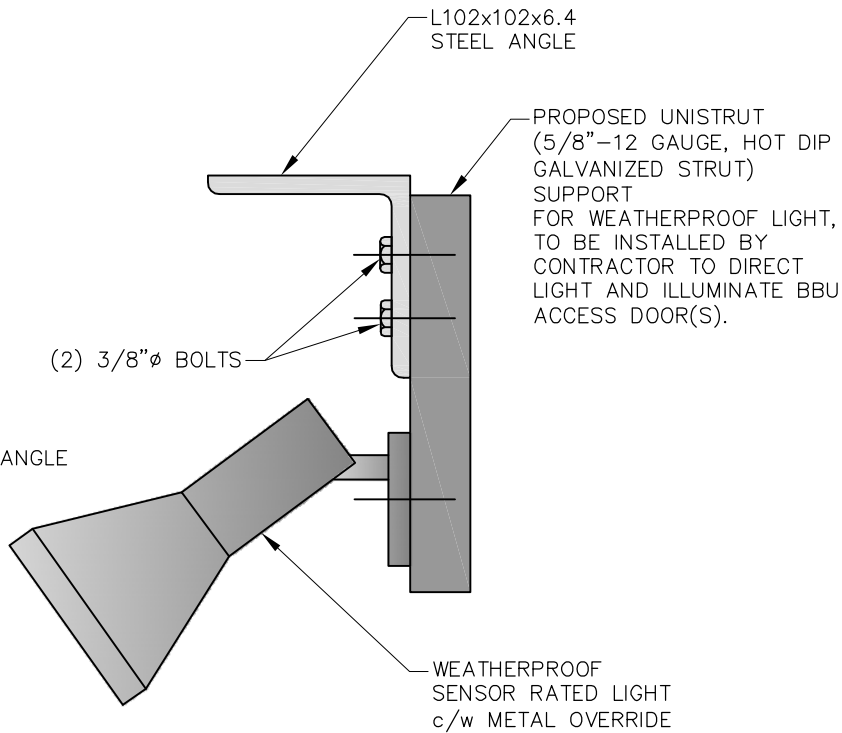
2 COMPRESSION CONNECTION (GROUNDING)



3 STAND OFF ADAPTER (FOR RHSS)



4 ANGLE ADAPTER



5 LIGHT INSTALLATION DETAIL

CLIENT:

CARRIER:



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LOCATION:
3778 KONRATH RD., PRINCE GEORGE, B.C.

TITLE:
EQUIPMENT DETAILS

PROJECT NAME:	PROJECT NO:	DWG. NO:
NEW SITE - GREENFIELD	BPG0010B	E07

GENERAL NOTES:

1. PROVIDE ALL LABOUR AND MATERIAL AS SHOWN AND AS REQUIRED TO COMPLETE THIS PROJECT AND PRESENT IT AS FULLY OPERATIONAL TO THE SATISFACTION OF THE OWNER.
2. COMPLY WITH THE LATEST ISSUES OF ALL APPLICABLE ELECTRICAL CODES, STANDARDS AND REGULATIONS.
3. OBTAIN ALL PERMITS, PAY ASSOCIATED FEES AND SCHEDULE INSPECTION.
4. ALL MATERIALS SHOWN ON DRAWINGS ARE NEW CSA APPROVED AND CSA LABELED.
5. INSTALL ALL THE REQUIRED GROUNDING SYSTEMS AS OUTLINED, INCLUDING INSTALLATION TESTING AND RECORD ALL RESULTS.
6. CONTRACTOR MAY PROPOSE MATERIALS AND METHODS OTHER THAN THE ONES SPECIFIED. APPROVAL OF THE ENGINEER AND OWNER MUST BE OBTAINED BEFORE SUCH MATERIALS AND METHODS ARE UTILIZED.
7. WORK REQUIRING FULL OR PARTIAL SHUTDOWN OF THE SITE ELECTRICAL SYSTEM TO MODIFY OR CONNECT EQUIPMENT IS PERMITTED ONLY DURING PERIODS SPECIFIED IN A WRITTEN AGREEMENT WITH THE OWNER OR BUILDING REPRESENTATIVE.
8. THE CONTRACTOR SHALL OBTAIN OWNERS APPROVAL FOR VARIOUS ELECTRICAL SERVICES CONDUITS ROUTING BEFORE PROCEEDING WITH WORK. VARIOUS RUNS TO BE RELOCATED AS PER OWNERS OR BUILDING REPRESENTATIVE SPECIFIC REQUIREMENTS AT NO ADDITIONAL COST.
9. ALL EQUIPMENTS SHALL BE LABELED WITH LAMACOID LABELS
10. BIDDERS FINDING DISCREPANCIES IN, OR OMISSIONS FROM DRAWINGS, SPECIFICATIONS OR OTHER DOCUMENTS, OR HAVING ANY DOUBTS AS TO THE MEANING OR INTENT OF ANY PART THEREOF, SHOULD AT ONCE NOTIFY THE ENGINEER WHO WILL SEND WRITTEN INSTRUCTIONS OR EXPLANATIONS TO ALL BIDDERS. NO ALLOWANCE WILL SUBSEQUENTLY BE MADE FOR FAILURE TO NOTIFY ENGINEER.
11. PROVIDE AS–BUILT DRAWINGS MARKED UP WITH INSTALLATION DETAILS IF DIFFER FROM PROPOSAL.
12. THE CONTRACTOR SHALL GUARANTEE IN WRITING ALL MATERIAL AND EQUIPMENT SUPPLIED BY HIM AGAINST DEFECTS IN WORKMANSHIP AND MATERIAL FOR A PERIOD OF TWELVE MONTHS AFTER FINAL ACCEPTANCE OF THE WORK. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY MATERIALS AND EQUIPMENT DEVELOPING SUCH DEFECTS WITHIN THAT TIME PROMPTLY ON DUE NOTICE GIVEN TO HIM BY THE OWNER, OR OWNER’S REPRESENTATIVE, AT NO ADDITIONAL EXPENSE TO THE OWNER.

WIRES AND CABLES

1. ALL SIZES SHOWN ARE AWG FOR COPPER CONDUCTORS AND CABLES.
2. FOR EARTHING AND BONDING USE COPPER CONDUCTORS ONLY.
3. TECK 90 OR COREFLEX CABLES MAY BE USED WHERE COST EFFECTIVE.
4. INSULATION SHALL BE TYPE RW90.
5. CONDUCTORS INSTALLED UNDER EARTHING SHALL HAVE RWU75 OR RWU90 INSULATION.

PANELBOARDS AND CIRCUIT BREAKERS

1. UNLESS NOTED OTHERWISE BREAKERS SHALL BE RATED FOR 10.000A SYMMETRICAL INTERRUPTING CAPACITY OR MATCH EXISTING STANDARDS.
2. BREAKERS SHALL BE MOLDED CASE AUTOMATIC THERMAL MAGNETIC TRIPPING TYPE UNLESS NOTED OTHERWISE.

DISCONNECT SWITCHES AND FUSES

1. DISCONNECT SWITCHES SHALL CONFORM TO CSA C22.2 NO. 4.
2. FUSE HOLDERS SHALL BE IN ACCORDANCE WITH CSA C22.2 NO. 39.
3. FUSES SHALL CONFORM TO CSA C22.2 NO. 106–M1985
4. DISCONNECT SWITCHES, FUSED AND NON–FUSED TYPE SHALL BE QUICK MAKE, QUICK BREAK ACTION IN EEMAC 1 ENCLOSURE FOR INDOOR INSTALLATION AND EEMAC 3 FOR OUTDOOR INSTALLATION UNLESS NOTED OTHERWISE.

EARTHING

1. PROVIDE EARTHING AND BONDING OF EQUIPMENT AS SHOWN AND AS REQUIRED BY CSA C22.2 NO.41–M1987, COMBINED WITH IEC 601024–1, IEEE 142 AND IEC 364 SERIES.
2. ALL CONDUCTORS USED ARE FOR EARTHING AND BONDING SHALL BE COPPER WITH GREEN INSULATION.
3. ALL LUGS FOR CONDUCTOR SIZES LARGER THAN #10 AWG SHALL BE TWO HOLE LONG BARREL COMPRESSION TYPE TIN PLATED COPPER.
4. EARTHING BARS SHALL BE MADE OF COPPER ALLOY 110, SIZED AND DRILLED FOR LUG CONNECTIONS.
5. IN ORDER TO MITIGATE HIGH FREQUENCY NOISE ALL EARTHING AND BONDING CONDUCTORS SHALL BE RUN AS STRAIGHT AS POSSIBLE WITH MINIMUM NUMBER OF BENDS. AVOID SHARP (90°) BENDS. MINIMUM BENDING RADIUS TO BE 300mm. LOOPING OF EARTHING AND BONDING WIRES SHALL BE AVOIDED.
6. ANTI–OXIDENT COMPOUND (NO–OX–ID) SHALL BE APPLIED TO ALL CONNECTIONS WHERE DISSIMILAR METALS COME IN CONTACT AND TO ALL CONDUCTOR ENDS BEEN LUGGED.

ELECTRICAL INSTALLATION NOTES:

1. PULL BOXES REQUIRED FOR RUNS OVER 150ft.
2. ELECTRICAL CONTRACTOR TO SUPPLY & INSTALL OUTDOOR MOTION–DETECTOR WORK LIGHT AND ELECTRICAL OUTLET AT EQUIPMENT LOCATION FOR USE BY CUSTOMER TECHNICIAN.
3. CONTRACTOR SHALL PROVIDE AND INSTALL ONE (1) #2 RW90 STRANDED, GREEN JACKETED, TINNED GROUND WIRE FROM THE EXISTING MAIN GROUND TO THE EQUIPMENT BUS BAR (MGB).
4. CONTRACTOR SHALL PROVIDE & INSTALL ONE (1) #2 STRANDED, GREEN JACKETED, TINNED GROUND WIRE FROM EACH SECTOR BUS BAR (AGB) AND THE MICROWAVE BUS BAR TO THE MGB.
5. GROUND ROD: COPPER CLAD STEEL GROUND ROD.
6. GROUND WIRE: GREEN JACKETED. THE BEND RADIUS SHALL BE NOT LESS THAN 8 INCHES.
7. NO–OX IS TO BE USED BETWEEN THE GROUND LUG AND BUS BAR. INSTALL LUGS ON FRONT OF BUS BAR. OVAL HOLES ARE NOT PERMITTED. BOLTS, WASHERS AND NUTS TO BE STAINLESS STEEL. PROPER SIZE 3/8”Ø STAINLESS STEEL HARDWARE.
8. ALL HORIZONTAL MUST BE UV RESISTANT SCHEDULE 80 PVC; VERTICAL CONDUIT CAN BE SCHEDULE 40.
9. MEGGAR ALL FEEDERS AND PROVIDE WRITTEN RECORD OF ALL READINGS.

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WEST**
744 WEST HASTINGS ST,
SUITE 219
VANCOUVER, BC V6C 1A5
TEL. (778)300-1233
VANCOUVER - EDMONTON - CALGARY

LOCATION:
3778 KONRATH RD., PRINCE GEORGE, B.C.

TITLE:
ELECTRICAL NOTES

PROJECT NAME:
NEW SITE – GREENFIELD

PROJECT NO:
BPG0010B

DWG. NO:
E08

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GENERAL NOTES:

1. THE MOST RECENT ISSUES OF ANY STANDARDS, CODES OR REGULATIONS MENTIONED IN THE DRAWINGS PROVIDED MUST BE USED, UNLESS INDICATED OTHERWISE IN THE SPECIFICATIONS.
2. ALL WORKMANSHIP MUST CONFORM TO THE REQUIREMENTS OF THE FREEDOM MOBILE SPECIFICATION, PROVINCIAL BUILDING CODE, APPLICABLE LOCAL BUILDING CODES, AND CSA STANDARDS.
3. THE CONTRACTOR’S RESPONSIBILITY INCLUDES:
 - a. – OBTAINING APPROVALS FROM ALL REQUIRED LOCAL AUTHORITIES.
 - b. – SAFEGUARD ALL EXIST. STRUCTURES AFFECTED BY THIS CONSTRUCTION.
 - c. – OBTAINING ALL FIELD MEASUREMENTS REQUIRED FOR FABRICATION.
4. PRESERVE FIRE RATING WHEN PENETRATING, CEILINGS, FLOORS AND WALLS.
5. DRAWINGS ARE NOT TO BE SCALED.
6. ADEQUATE PROTECTION (PLYWOOD SHEETS) MUST BE PROVIDED BY THE CONTRACTOR ON THE EXISTING ROOF FOR THE ENTIRE DURATION OF CONSTRUCTION, TO AVOID DAMAGE TO THE EXISTING ROOFING. CONSTRUCTION LOADS MUST NOT EXCEED A CONCENTRATED LOAD OF 1.3kN OR UNIFORM DISTRIBUTED LOAD OF 1.0 kPa.
7. ALL SHOP AND INSTALLATION DRAWINGS MUST BE SUBMITTED TO ROEHAMPTON COMMUNICATIONS LTD. BY THE CONTRACTOR, FOR REVIEW PRIOR TO FABRICATION OF THE MATERIALS.
8. CORE DRILLING IN AREAS OCCUPIED BY TENANTS SHALL BE COORDINATED WITH THE BUILDINGS OWNER/MANAGER, AND MAY BE REQUIRED TO BE COMPLETED OUTSIDE OF NORMAL WORKING HOURS. SERVICES DAMAGED MUST BE REPAIRED BY THE CONTRACTOR, AT HIS OWN EXPENSE.
9. CORE DRILLING MUST NOT BE DONE UNTIL AN X-RAY INSPECTION PAID FOR BY THE CONTRACTOR, HAS BEEN COMPLETED TO DETERMINE THE PROPER LOCATION FOR THE PENETRATION. CORE DRILLING IS NOT ALLOWED IN COLUMN CAP AREAS.
10. THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND DETAILS ON THE STRUCTURAL DRAWNGS FOR COMPATIBILITY WITH ARCHITECTURAL AND OTHER CONSULTANTS’ DRAWINGS BEFORE COMMENCING WITH THE WORK.
11. THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING DURING THE BIDDING PERIOD OF ANY DISCREPANCIES OR OMISSIONS NOTED ON THE DRAWINGS OR IN SPECIFICATIONS, UPON RECEIPT OF SUCH INFORMATION THE ENGINEER WILL PROVIDE ADDITIONAL INSTRUCTIONS, ANY SUCH DISCREPANCY, OMISSION OR VARIATION NOT REPORTED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND CORRECTIVE WORK SHALL BE PERFORMED AS DIRECTED BY THE ENGINEER.
12. ALL DIMENSIONS TO TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS, SECTIONS AND DETAILS.
13. ENGINEERING SERVICES PRESENTED ON THESE DRAWINGS ARE FOR PERMANENT STRUCTURE ONLY, THE CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY BRACING REQUIRED FOR STRUCTURE STABILITY AND FOR CONSTRUCTION LOADING UNTIL THE PROJECT IS COMPLETED.

CONCRETE NOTES:

1. ALL WORKMANSHIP MUST BE IN ACCORDANCE WITH THE LATEST EDITION OF THE FREEDOM MOBILE SPECIFICATION, AND APPLICABLE STANDARDS.
2. REINFORCING STEEL MUST BE GRADE 400 DEFORMED BARS TO CAN/CSA G30.18, UNLESS NOTED OTHERWISE. CONCRETE COVER TO BE 3” (MIN.)
3. WELDED STEEL WIRE FABRIC MUST HAVE A MINIMUM YIELD STRENGTH OF 450 MPa AND CONFORM TO CSA G30.5. (PROVIDE IN FLAT SHEETS ONLY)
4. BEND AND DETAIL REINFORCING STEEL AS INDICATED IN THE REINFORCING STEEL MANUAL OF STANDARD PRACTICE BY THE REINFORCING STEEL INSTITUTE OF CANADA.
5. CAST IN PLACE CONCRETE TO HAVE A 28 DAY MINIMUM COMPRESSIVE STRENGTH OF 30 MPa UNLESS NOTED OTHERWISE.
6. SLUMP AT POINT OF DISCHARGE TO BE 75mm.
7. ALL CONCRETE EXPOSED TO FREEZING AND THAWING OR DE-ICING CHEMICALS MUST CONTAIN ENTRAINED AIR.
8. ALL CONCRETE EXPOSED CORNER EDGES SHALL BE CHAMFERED 1” x 1”.
9. ALL GROUT USED SHALL BE NON-SHRINKING, INSTALLED TO MANUFACTURES INSTRUCTIONS, UNLESS SPECIFIED OTHERWISE.
10. NO MORE THAN 120 MINUTES SHALL ELAPSE BETWEEN CONCRETE BATCHING AND CONCRETE PLACEMENT UNLESS APPROVED BY THE TESTING AGENCY AND THE STRUCTURAL ENGINEER, CONTRACTOR’S SUPERINTENDENT TO MONITOR THIS PERIOD, TESTING AGENCY HAS THE AUTHORITY TO REJECT CONCRETE IF NOT IN ACCORDANCE WITH SPECIFICATIONS.

STEEL STUDS AND JOISTS NOTES:

1. ALL WORKMANSHIP MUST BE IN ACCORDANCE WITH THE LATEST EDITION OF THE PROVINCIAL BUILDING CODES, APPLICABLE BY-LAWS AND LOCAL CODES.
2. MATERIAL TO CONFORM TO ASTM A446 STANDARD SPECIFICATION FOR STEEL SHEET, HOT DIP GALVANIZED.
3. BRIDGING TO BE PROVIDED AT 5ft c/c FOR STUDS, UNLESS INDICATED OTHERWISE.
4. BRIDGING TO BE PROVIDED @ 7ft c/c FOR JOISTS, UNLESS INDICATED OTHERWISE.
5. INSTALLATION MUST MEET THE REQUIREMENTS SET OUT IN THE MANUFACTURERS SPECIFICATIONS AND REQUIREMENTS.

STRUCTURAL STEEL NOTES:

1. ALL WORKMANSHIP MUST BE IN ACCORDANCE WITH THE LATEST EDITION OF THE FREEDOM MOBILE SPECIFICATION, AND APPLICABLE STANDARDS AS LISTED IN CORRESPONDING SECTION.
2. ALL STRUCTURAL STEEL TO CONFORM TO CAN3–G40.21, GRADE 300W, RHSS TO MEET REQUIREMENTS OF G40.21, CLASS H, GRADE 350W.
3. ALL WELDING SHALL BE COMPLETED IN ACCORDANCE WITH APPLICABLE CSA STANDARDS AND PERFORMED BY A FABRICATOR CERTIFIED TO CSA W47.1 TO DIVISION 1 OR 2.1.
4. ALL BOLTS TO CONFORM TO ASTM SPECIFICATION A325, PROPERLY SIZED FOR THE APPLICATION, AND THE THREADS TO BE EXCLUDED FROM THE SHEAR PLANE.
5. HOLES ADDITIONAL TO THOSE SHOWN ON STRUCTURAL DRAWINGS ARE NOT PERMITTED IN ANY STRUCTURAL MEMBER.
6. ALL STRUCTURAL STEEL TO BE HOT DIP GALVANIZED.
7. APPLY (3) COATS OF ZINC RICH PAINT TO ALL DAMAGED GALVANIZED SURFACES.
8. FIELD MODIFICATIONS SUCH AS DRILLING OF HOLES AND WELDING TO BE AVOIDED, UNLESS SPECIFIED OTHERWISE.
9. MINIMUM DISTANCE FROM HOLE CENTER TO EDGE SHALL BE:

BOLT DIAM.	SHEARED EDGE	ROLLED EDGE	HOLE
1/2"ø	25 mm	19 mm	14.3ø mm
5/8"ø	30 mm	22 mm	17.5ø mm
3/4"ø	35 mm	26 mm	20.6ø mm

NUT ROTATION FROM SNUG–TIGHT CONDITION* (TURN–OF–NUT– PRETENSION)		
BOLT LENGTH**	DISPOSITION OF OUTER FACE OF BOLTED PARTS	
	BOTH FACES NORMAL TO BOLT AXIS OR ONE FACE NORMAL TO AXIS AND OTHER FACE SLOPED 1:20 MAX. (BEVELED WASHERS NOT USED)***	BOTH FACES SLOPED 1:20 MAX. FROM NORMAL TO BOLT AXIS (BEVELED WASHERS NOT USED)***
<= 4x BOLT DIA.	1/3 TURN	3/4 TURN
> 4x BOLT DIA. <= 8x BOLT DIA. OR 200mm	1/2 TURN	
> 8x BOLT DIA. OR 200mm	2/3 TURN	
* TABLE 8 OF CAN/CSA–S16–14 NUT ROTATION IS RELATIVE TO BOLT REGARDLESS OF WHETHER THE NUT OR BOLT IS TURNED. TOLERANCE OF ROTATION ±30°. THIS TABLE APPLIES TO COARSE–THREADED HEAVY–HEX STRUCTURAL BOLTS OF ALL SIZES AND LENGTHS USED WITH HEAVY–HEX SEMI–FINISHED NUTS.		
** BOLT LENGTH IS MEASURED FROM THE UNDERSIDE OF THE HEAD TO THE EXTREME END OF POINT.		
*** BEVELED WASHERS ARE NECESSARY WHEN A490M OR A490 BOLTS ARE USED.		

FIRE STOPPING & SEALING NOTES:

1. ALL EXISTING AND NEW OPENINGS LOCATED IN THE EQUIPMENT ROOM AND ALONG CABLE ROUTINGS, MUST BE SEALED AND FIRE STOPPED WITH TWO HOUR FIRE RATING AS REQUIRED USING TREMCO FIRESTOP SYSTEM.

ANTENNA AND WAVEGUIDE NOTES:

1. ALL WORKMANSHIP MUST BE IN ACCORDANCE WITH THE LATEST EDITION OF THE FREEDOM MOBILE SPECIFICATION.
2. INSTALL WAVEGUIDE TO MANUFACTURERS INSTRUCTIONS. (SUPPORT INTERVALS TO BE 1 METER MAXIMUM).
3. ALL AREAS AFFECTED BY ROUTING OF WAVE–GUIDE OR CONDUITS MUST BE REHABILITATED TO ORIGINAL CONDITION UPON COMPLETION.

ROOFING NOTES:

1. BEFORE STARTING WORK ON ROOF, CONTRACTOR IS TO COMPLETE A "CUT TEST", TO DETERMINE THE CONDITION AND TYPE OF THE EXISTING ROOFING.
2. REMOVE EXISTING ROOFING AS REQUIRED TO ALLOW FOR THE INSTALLATION OF RHSS AND BASE PLATE, KEEP OPENING TO A MINIMUM.
3. ONCE INSTALLATION IS COMPLETE, MAKE GOOD THE EXISTING ROOFING & INSULATION.
4. PROVIDE SUFFICIENT TEMPORARY PROTECTION OF ROOF PENETRATIONS, PRIOR TO ROOFING REINSTATEMENT, TO PREVENT WATER FROM ENTERING THE EXISTING BUILDING.
5. ALL WORK SHALL CONFORM TO ALL AUTHORITIES HAVING JURISDICTION AND TO THE FREEDOM MOBILE SPECIFICATION. WORKMANSHIP TO PROVIDE A CLEAN APPEARANCE OF THE FINISHED WORK.

INVERTED ROOF

1. WHERE EXISTING ROOFING IS BITUMEN OR ASPHALTIC BASED, SUPPLY A NEW 3FT x 3FT RUBBERIZED MEMBRANE. TORCH DOWN TO EXISTING. AT UNDERSIDE OF BASE PLATE PROVIDE RUBBERIZED PLASTIC CEMENT, COMPATIBLE WITH MEMBRANE. WATERPROOF ANCHOR BOLT AREAS.

STANDARD BUILT UP ROOF

2. CUT OPENING IN ROOF ADEQUATE TO ALLOW FOR THE INSTALLATION OF THE RHSS AND BASE PLATE. FOLLOWING INSTALLATION, PROVIDE 22 Ga. GALVANIZED SHEET METAL, PITCH POCKET, 18” SQUARE x 5” HIGH. FILL AFTER ASSEMBLY IS COMPLETE. FLASH INTO EXISTING WATERPROOFING ON ROOF.

WOOD FRAMING & STRUCTURAL TIMBER NOTES:

1. ALL WORKMANSHIP MUST BE IN ACCORDANCE WITH THE LATEST EDITION OF THE FREEDOM MOBILE SPECIFICATION, PROVINCIAL BUILDING CODES AND APPLICABLE STANDARDS.
2. PLYWOOD SHALL BE DOUGLAS FIR CONFIRMING TO CAN/CSA–0121.
3. ALL FRAMING MEMBERS SHALL BE DOUGLAS FIR–LARCH NO.1 / NO.2 GRADE.
4. STEEL HARDWARE SHALL BE ASTM A36 OR BETTER. BOLTS SHALL BE ASTM A307.
5. NAILS TO CONFORM TO CSA B111–1974. GALVANIZED FOR EXTERIOR LOCATIONS AND TREATED LUMBER. NAILING OF FRAMING PER PROVINCIAL BUILDING CODES AND APPLICABLE STANDARDS.

MASONRY NOTES:

1. ALL WORKMANSHIP MUST BE IN ACCORDANCE WITH THE LATEST EDITION OF THE FREEDOM MOBILE SPECIFICATION, PROVINCIAL BUILDING CODES .
2. UTILIZE TYPE 'S' MORTAR FOR ALL INTERIOR AND EXTERIOR LOAD BEARING WALLS, CONFORM TO CSA STANDARD A179.
3. ALL METAL MATERIALS USED IN MASONRY TO BE HOT DIP GALVANIZED.
4. VERTICAL MASONRY CONTROL JOINTS TO BE INSTALLED AT INTERVALS LESS THAN 3 TIMES THE WALL HEIGHT WITH MAXIMUM SPACING OF 39’–4”.
5. PROVIDE ALL REQUIRED TEMPORARY SHORING TO EXISTING MASONRY WALLS WHEN CUTTING NEW OPENINGS.

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WEST

744 WEST HASTINGS ST,
SUITE 219
VANCOUVER, BC V6C 1A5
TEL. (778)300-1233
VANCOUVER - EDMONTON - CALGARY

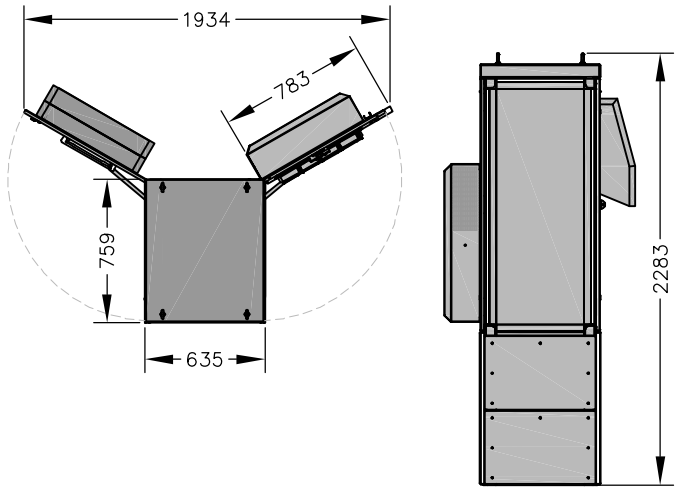
LOCATION:
3778 KONRATH RD., PRINCE GEORGE, B.C.

TITLE:
GENERAL NOTES

PROJECT NAME:
NEW SITE – GREENFIELD

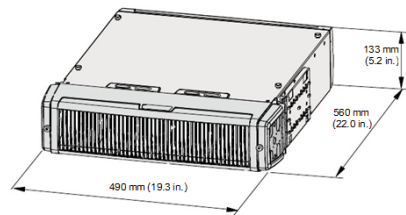
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BPG0010B

DWG. NO:
N01



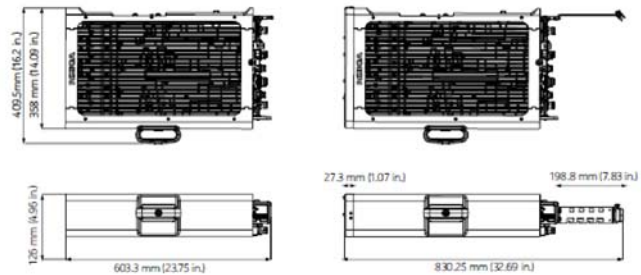
EMERSON CABINET WITH BATTERY RISER
Height/Width/Depth: 2283x635x759mm
Weight: ±800kg (C/W 8 BATTERIES)

1 BBU CABINET DETAIL
N.T.S.



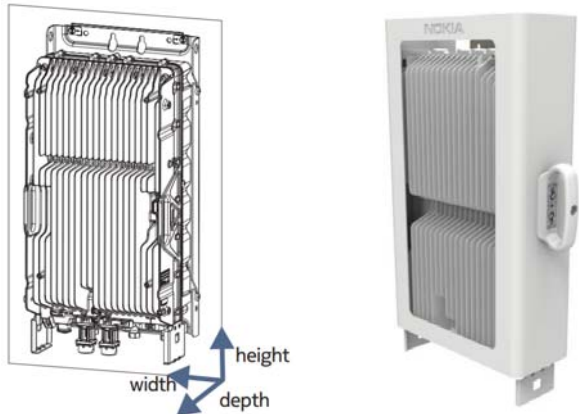
SYSTEM MODULE
Height/Width/Depth: 490x133x560mm
Weight: 25kg

FRU/4T4R

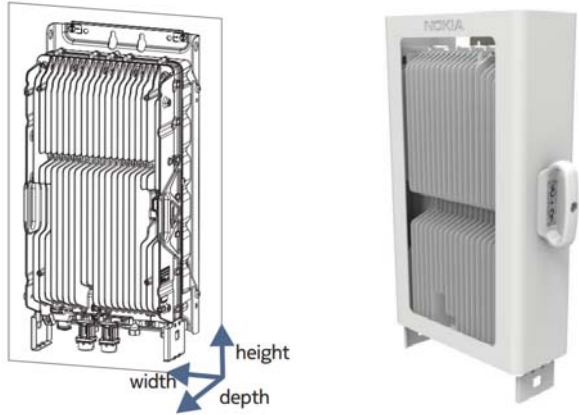


FRIJ
Height/Width/Depth: 603x126x409mm
Weight: 24.5kg

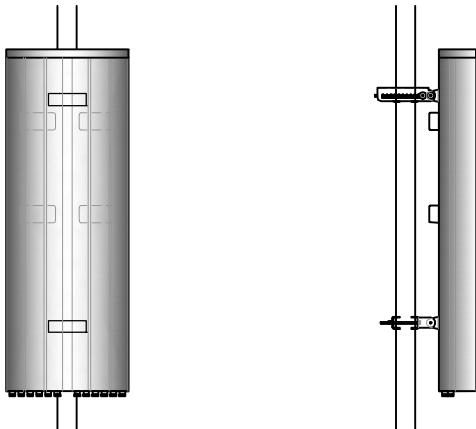
2 RRU's
N.T.S.



AHBCC
Height/Width/Depth: 675x327x205mm
Weight: 38kg

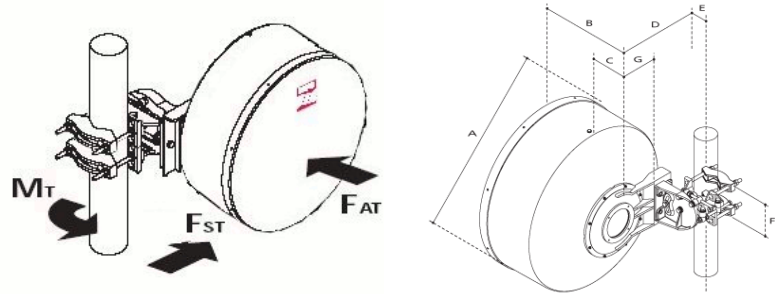


AHFIB
Height/Width/Depth: 675x327x165mm
Weight: 30kg



CCI TPA65R-GE6A
Height/Width/Depth: 1807x648x194mm
Weight: 44.8kg

3 RF ANTENNA DETAIL
N.T.S.



MODEL	ØA	B	C	ØD FOR MOUNTING PIPE DIAM.				E	F	NET WEIGHT (kg)
				219 (8.5)	114 (4.5)	89 (3.5)	51 (2.0)			
SC2-XXXA (CONT.)	670 (26.4)	293 (11.5)	254 (10)	-	293 (11.4)	293 (11.4)	293 (11.4)	123 (4.8)	100 (3.9)	9
SBX2-190CB (CONT.)	700 (28)	289 (11.5)	114 (4.5)	-	371 (14.6)	357 (14.0)	333 (13.1)	99 (3.9)	146 (5.7)	9
SBX2-220CB (CONT.)	700 (28)	289 (11.5)	114 (4.5)	-	371 (14.6)	357 (14.0)	333 (13.1)	99 (3.9)	146 (5.7)	9
SBX3-190AB (CONT.)	970 (38.3)	500 (19.8)	170 (6.8)	-	317 (12.5)	299 (11.8)	299 (11.8)	100 (3.9)	365 (14.4)	18
SBX3-220AB (CONT.)	970 (38.3)	500 (19.8)	170 (6.8)	-	317 (12.5)	299 (11.8)	299 (11.8)	100 (3.9)	365 (14.4)	18
SBX4-190AB (CONT.)	1262(49.7)	631 (24.9)	248 (9.8)	-	365 (14.4)	-	-	115 (4.5)	365 (14.4)	35
UXA2-190CB (CONT.)	700 (28)	389 (15.4)	114 (4.5)	-	371 (14.6)	357 (14.0)	333 (13.1)	99 (3.9)	146 (5.7)	15
UXA4-190BB (CONT.)	1313(51.7)	816 (32.1)	248 (9.8)	-	365 (14.4)	-	-	115 (4.5)	365 (14.4)	40
UXA4-220BB (CONT.)	1313(51.7)	248 (9.8)	248 (9.8)	-	365 (14.4)	-	-	115 (4.5)	365 (14.4)	40

4 M/W ANTENNA DIMENSIONS CHART
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VANCOUVER, BC V6C 1A5
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LOCATION:
3778 KONRATH RD., PRINCE GEORGE, B.C.

TITLE:
EQUIPMENT DETAILS

PROJECT NAME:NEW SITE - GREENFIELDPROJECT NO:BP0010B

DWG. NO: N02