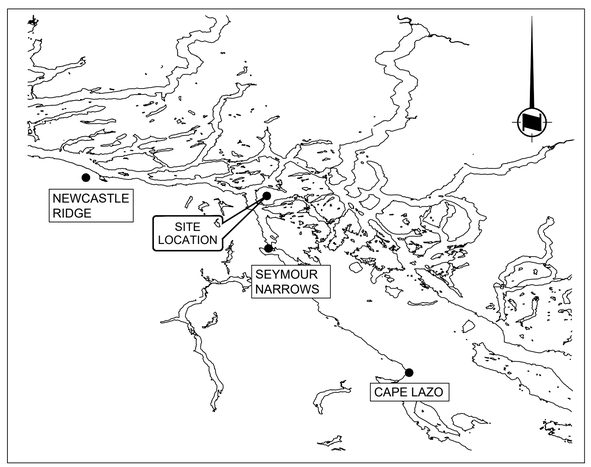
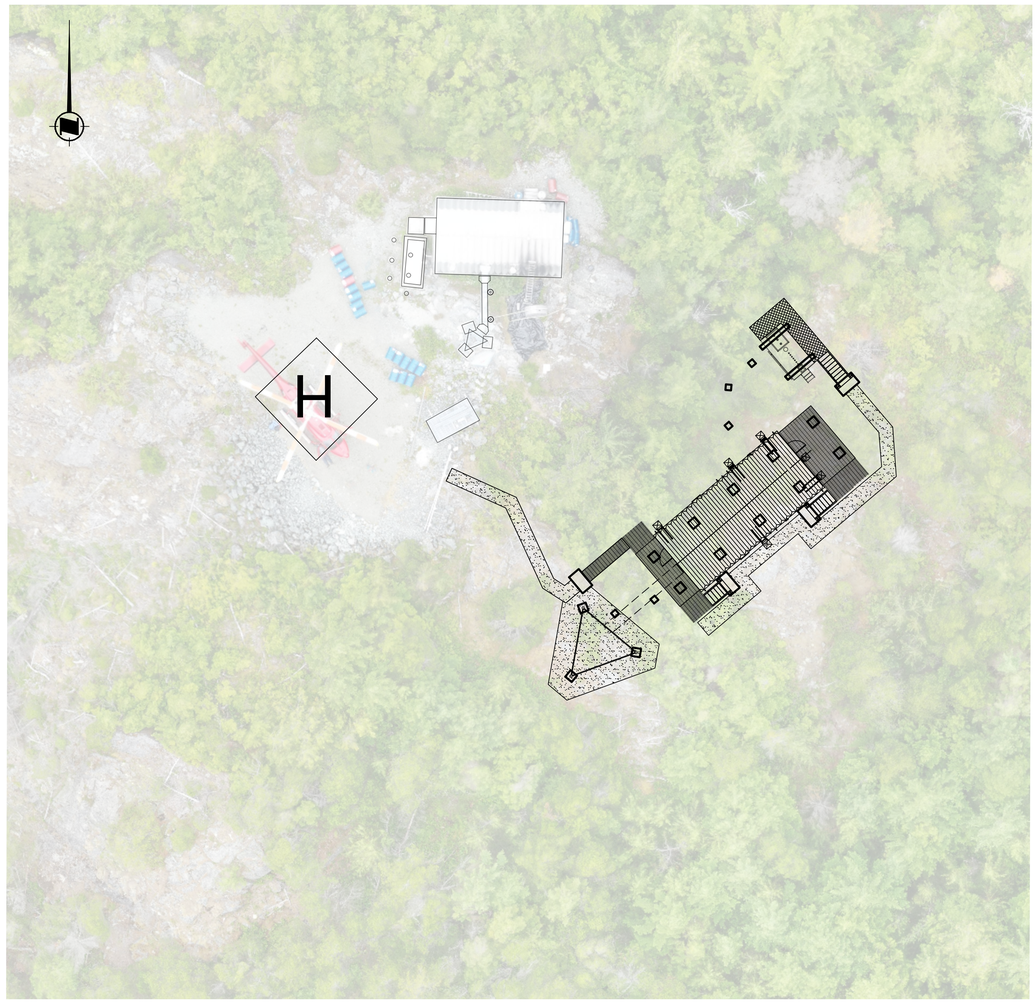
CANADIAN COAST GUARD
DISCOVERY MOUNTAIN SITE
SONORA ISLAND, BC

DRAWING LIST	
NUMBER	**DRAWING NAME**
01	COVER SHEET
02	SITE PLAN
03	SITE CLEARING PLAN
04	FOUNDATION PLAN
05	FOUNDATION ELEVATION ANDS DETAILS
06	SITE GRADING PLAN
07	ANTENNA LAYOUT
08	GROUNDING PLAN
09	FUEL TANK DETAILS



SITE LOCATION MAP
NOT TO SCALE



KEY PLAN
SCALE: 1:200

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WM625-1004

Vendor Information / Sous-traitant

GENERAL NOTES

1. THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER APPLICABLE CONSTRUCTION DOCUMENTS. DEVIATION OF PROJECT CONSTRUCTION IS NOT ACCEPTABLE UNLESS INSTRUCTED BY THE ENGINEER.
2. ALL INFORMATION CONCERNING EXISTING SITE CONDITIONS HAVE BEEN TAKEN FROM ORIGINAL DRAWINGS AND SITE MEASUREMENTS. SHOULD INFORMATION OR SITE CONDITIONS DIFFER SIGNIFICANTLY FROM THAT SHOWN, ADVISE CCG ENGINEERING.
3. DO NOT COMMENCE CONSTRUCTION USING THESE DRAWINGS UNLESS NOTED "FOR CONSTRUCTION".
4. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE NATIONAL BUILDING CODE 2010 AND REFERENCED STANDARDS THEREIN.
5. DRAWINGS SHOW COMPLETED STRUCTURES ONLY. CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY STRUCTURES AND BRACING FOR CONSTRUCTION LOADING CONDITIONS AND STABILITY OF THE STRUCTURE DURING CONSTRUCTION. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN LOADS.
6. IT IS THE DISCRETION OF THE ENGINEER TO CONDUCT INSPECTIONS OR ACCEPT PHOTOS OF REINFORCING PRIOR TO THE PLACEMENT OF CONCRETE.

LEGEND

640.00 — MAJOR CONTOURS (1m INTERVAL)
644.25 — MINOR CONTOURS (0.25m INTERVAL)

TOPOGRAPHIC CONTOURS BASED ON SITE SURVEY COMPLETED 2020-11-28 and UAV SURVEY COMPLETED 2019-07-16.

ORTHO-IMAGERY DERIVED FROM UAV SURVEY COMPLETED 2019-07-16.

CONTROL INFORMATION BASED ON BASELINES TO QUADRA ISLAND AND BEAVER COVE ACTIVE CONTROL STATIONS

VERTICAL DATUM: ELEVATIONS ARE REFERRED TO CGVD 28

HORIZONTAL DATUM: COORDINATES ARE REFERRED TO NAD 83 CSRS (2010 EPOCH)

PROJECTION INFORMATION: UTM ZONE 9N

rev	description	by / par.	date
0	ISSUED FOR TENDER	LSL	2021-05-17

Asset - Actif

MCTS TOWER SITE
DISCOVERY

Drawing - Dessin

COVER SHEET

drawn - dessiné	date
LSL	2021-05-17
designed - conception	date
-	-
checked - vérifié	date
-	-
approved - approuvé	date
-	-
CCG ref. no. - no. réf. GCC	scale - échelle
N6247	AS NOTED
drawing no. - no. dessin	sheet-feuille / rev-rév
WM625-1005	01/09 / 0

CAD PRODUCED DRAWING
PRODUIT PAR DAO

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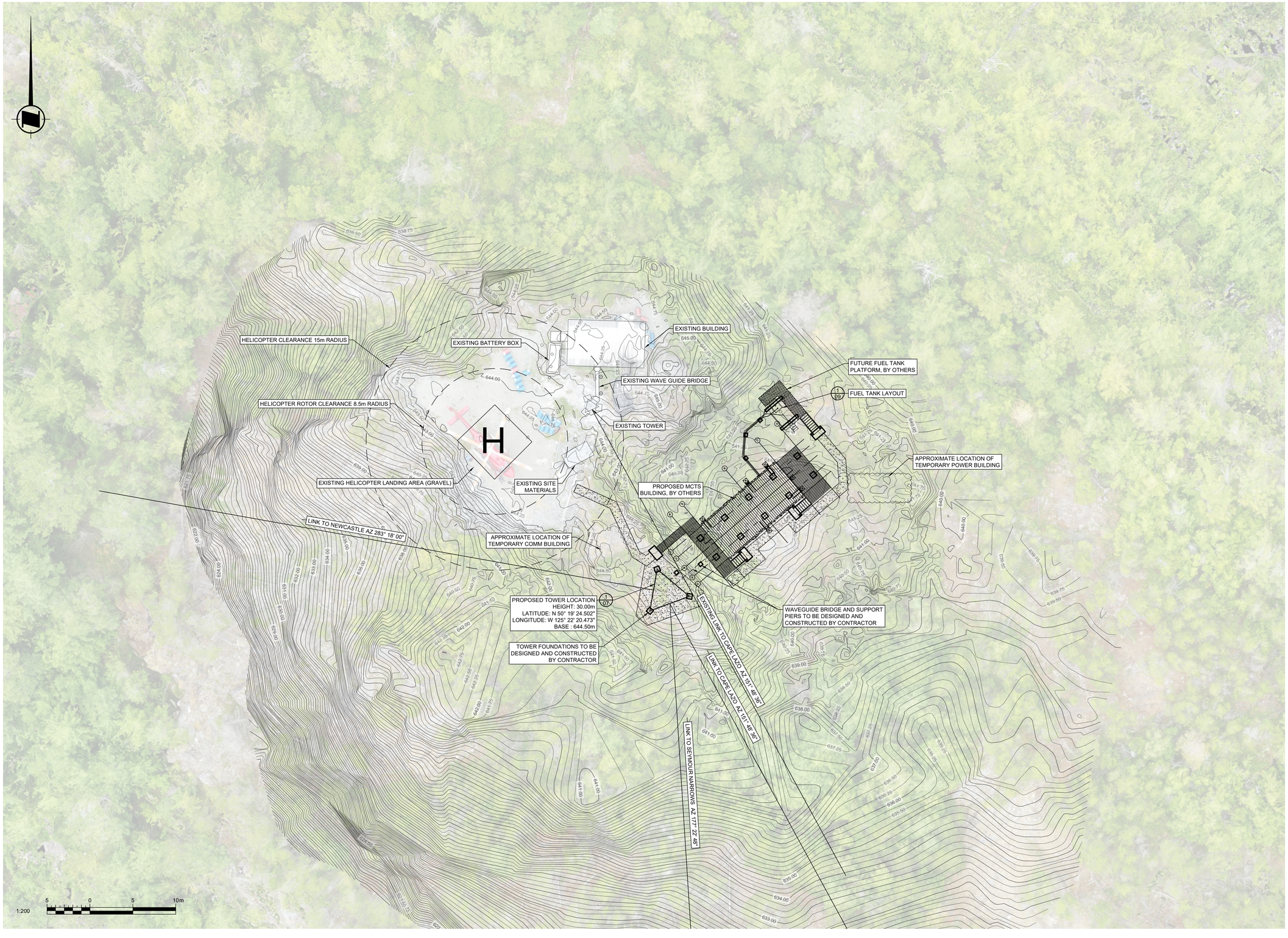
SIGNALER LES ERREURS OU LES OMISSIONS AU GESTIONNAIRE SLI



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WM625-1004

Vendor Information / Sous-traitant

LEGEND

640.00 MAJOR CONTOURS (1m INTERVAL)
644.25 MINOR CONTOURS (0.25m INTERVAL)

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rev	description	by / par	date
0	ISSUED FOR TENDER	LSL	2021-05-17

Asset - Actif

MCTS TOWER SITE
DISCOVERY

Drawing - Dessin

SITE PLAN

drawn - dessiné	date: 2021-05-17
LSL	
designed - conception	date: -
-	
checked - vérifié	date: -
-	
approved - approuvé	date: -
-	
CCG ref. no. - no. réf. GCC: N6247	scale - échelle: 1:200
drawing no. - no. dessin: WM625-1005	sheet-feuille: 02/09 ; rev-rév: 0

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File / Fichier: WM 625-1005 DISCOVERY MOUNTAIN SITE LAYOUT PACKAGE_IFT_REV0.DWG - Printed / Imprimé: 2021/05/19 1:27

WM625-1004

CAD PRODUCED DRAWING
PRODUIT PAR DAO

inches 0 1 2 4 5 6 pouces

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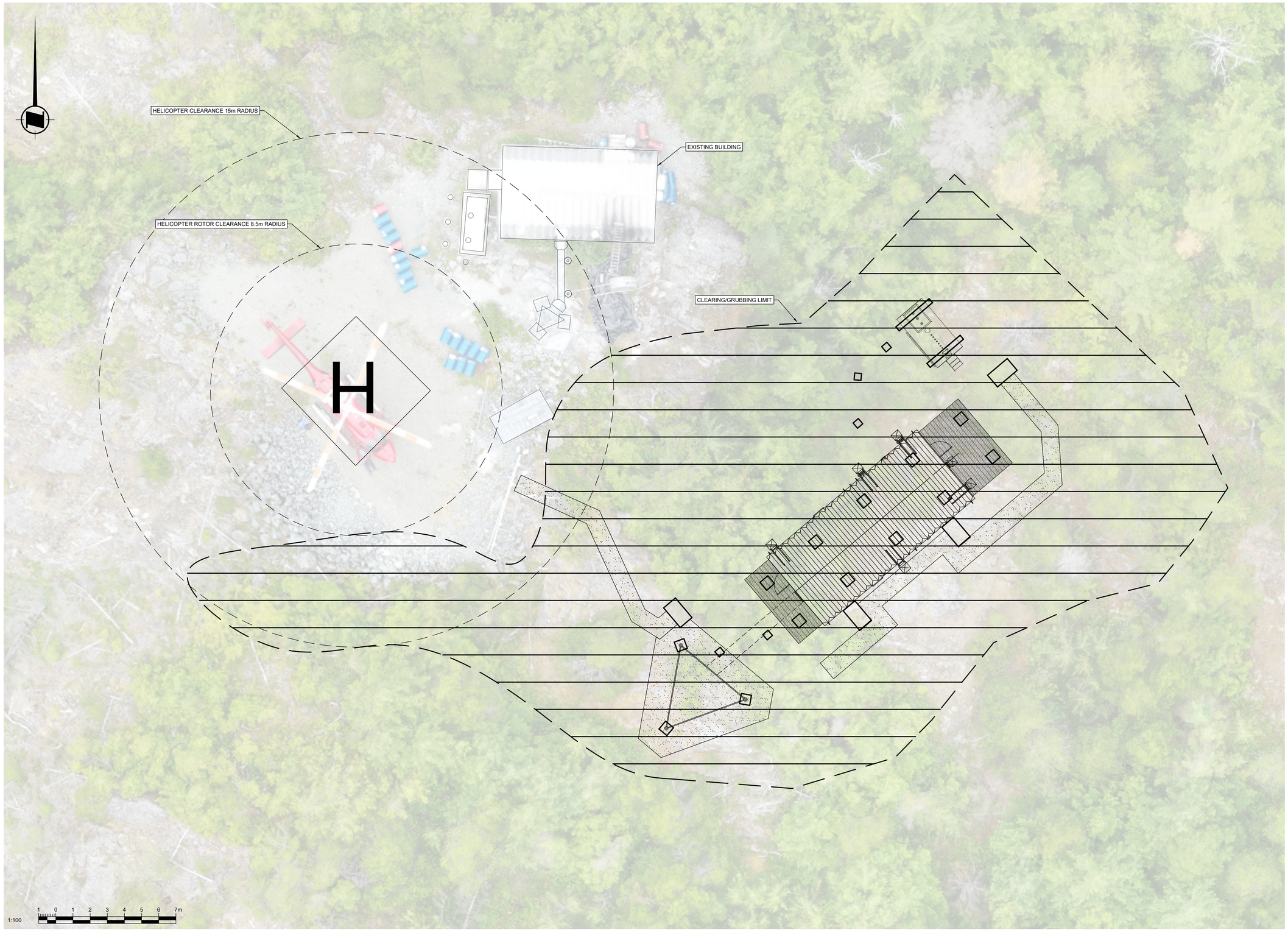

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rev	description	by / par	date
0	ISSUED FOR TENDER	LSL	2021-05-17

Asset - Actif

MCTS TOWER SITE
DISCOVERY

Drawing - Dessin

SITE CLEARING PLAN

drawn - dessiné	date
LSL	2021-05-17
designed - conception	date
-	-
checked - vérifié	date
-	-
approved - approuvé	date
-	-
CCG ref. no. - no. réf. GCC	scale - échelle
N6247	1:100
drawing no. - no. dessin	sheet-feuille / rev-rév
WM625-1005	03/09 / 0

WM625-1004

File / Fichier: WM 625-1005 DISCOVERY MOUNTAIN SITE LAYOUT PACKAGE_IFT_REV0.DWG - Printed / Imprimé: 2021/05/18 10:5

Arch D

millimeters 0 1 2 3 4 5 7 8 9 10 11 12 millimètres

CAD PRODUCED DRAWING
PRODUIT PAR DAO

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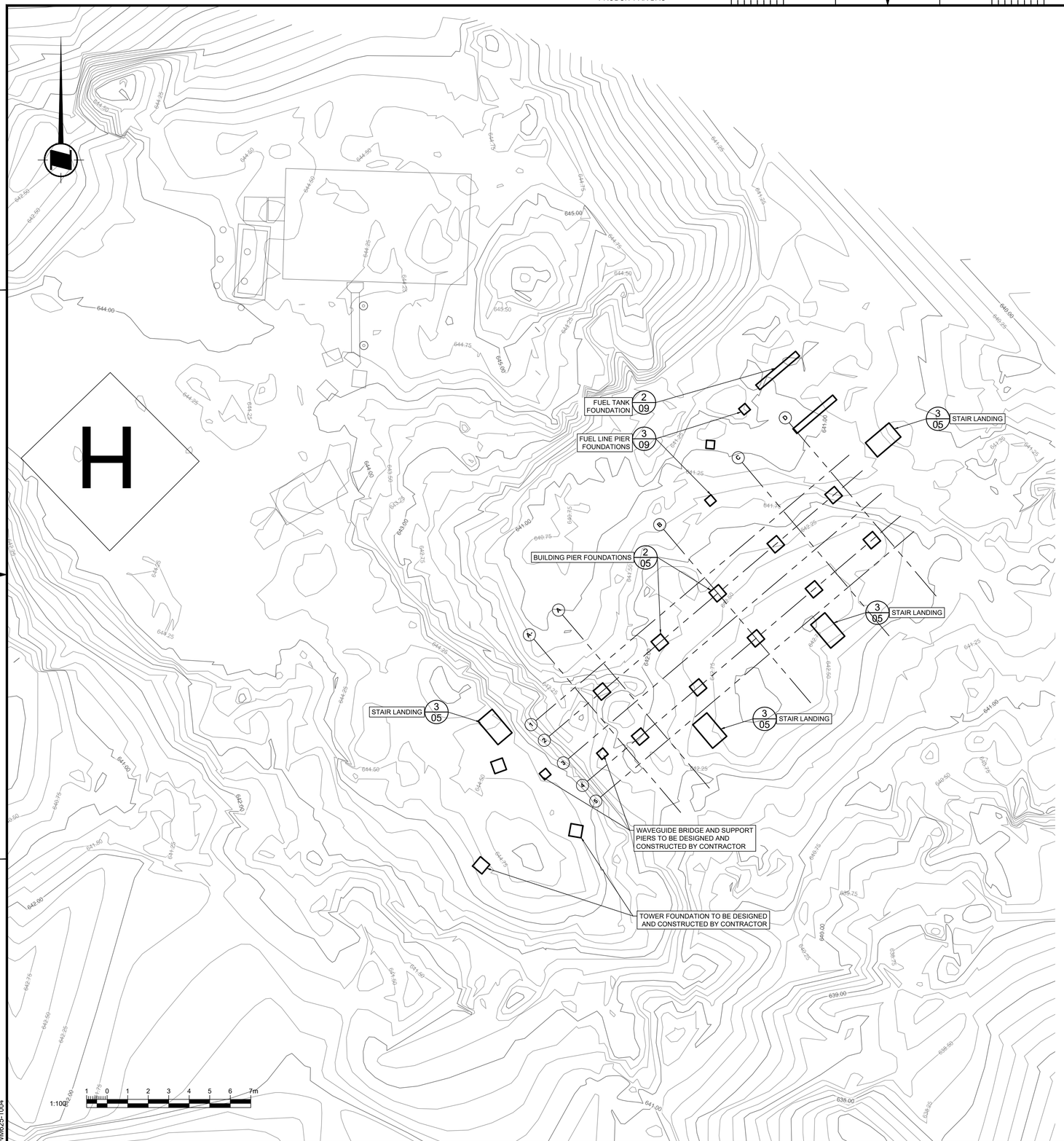
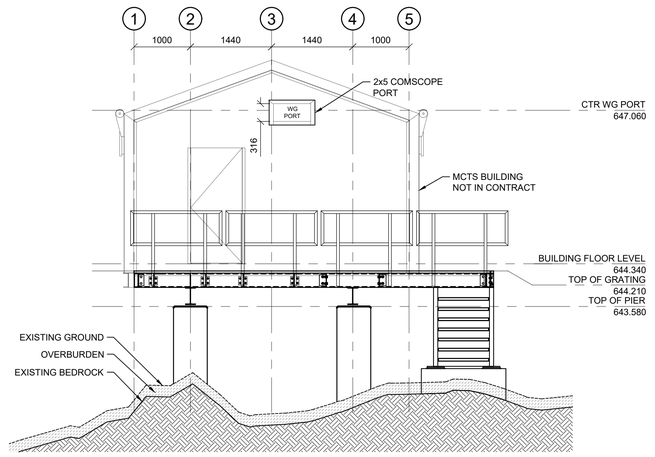
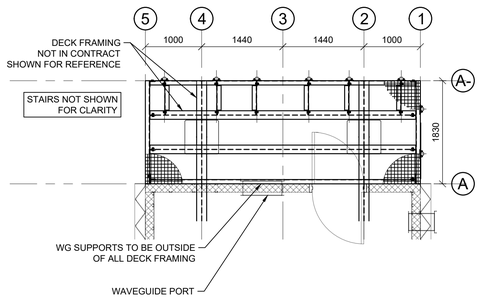
SIGNALER LES ERREURS OU LES OMISSIONS AU GESTIONNAIRE SLI





ELEVATION A/- WAVEGUIDE ENTRY PORT
SCALE:1:50



PLAN 1/- DECK FRAMING
SCALE:1:50

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LEGEND

644.00 MAJOR CONTOURS (1m INTERVAL)
644.25 MINOR CONTOURS (0.25m INTERVAL)
CONTOUR DATASET BREAKLINE

rev	description	by / par	date
0	ISSUED FOR TENDER	LSL	2021-05-17

Asset - Actif

MCTS TOWER SITE
DISCOVERY

Drawing - Dessin

FOUNDATION PLAN

drawn - dessiné		date
LSL		2021-05-17
designed - conception		date
-		-
checked - vérifié		date
-		-
approved - approuvé		date
-		-
CCG ref. no. - no. réf. GCC		scale - échelle
N6247		1:100
drawing no. - no. dessin	sheet-feuille	rev-rév
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PRODUIT PAR DAO

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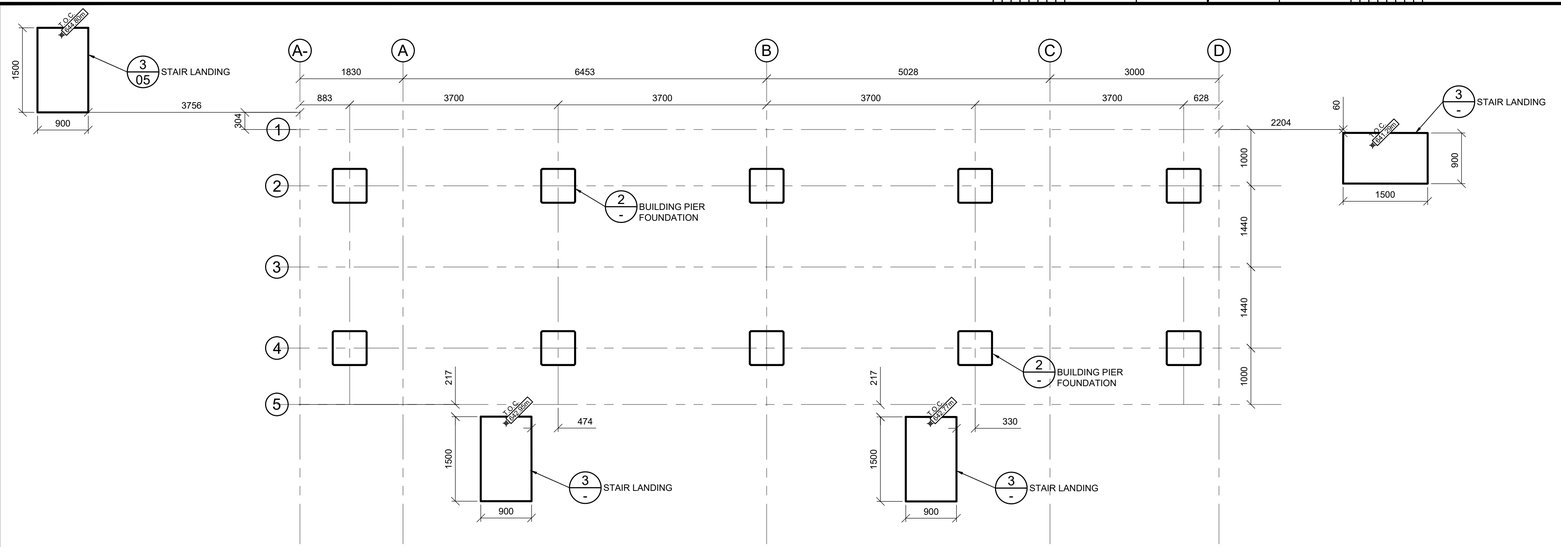
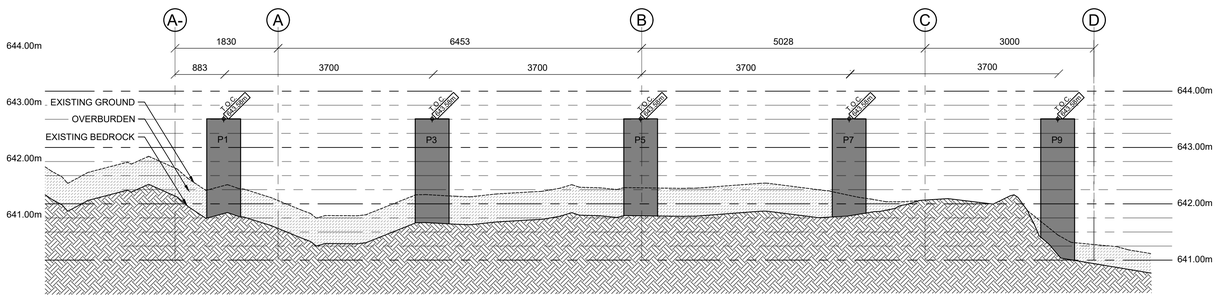
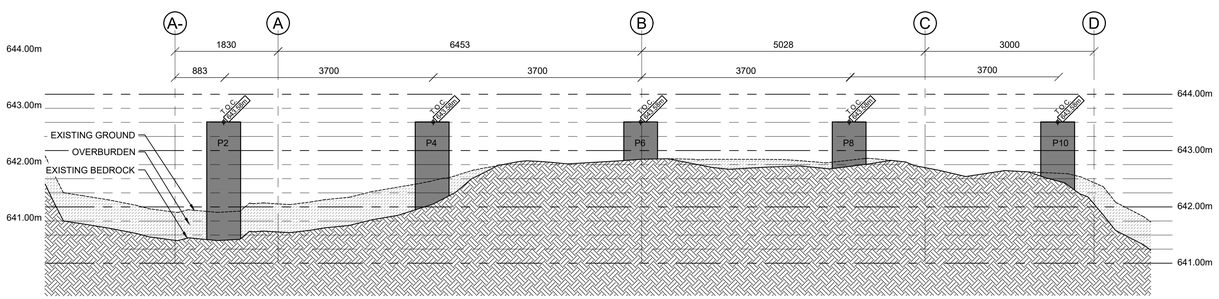


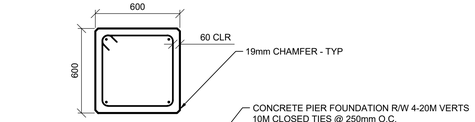
PLAN SCALE:1:50 — 1 - BUILDING PIER FOUNDATIONS



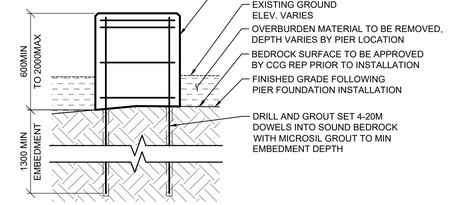
SECTION SCALE:1:50 — A - BUILDING PIER FOUNDATIONS - GRIDLINE 4



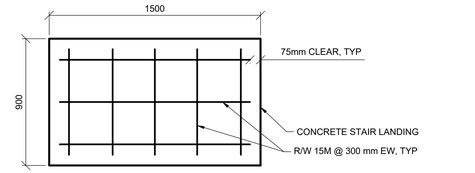
SECTION SCALE:1:50 — B - BUILDING PIER FOUNDATIONS - GRIDLINE 2



PLAN



DETAIL SCALE:1:20 — 2 04 BUILDING PIER FOUNDATION



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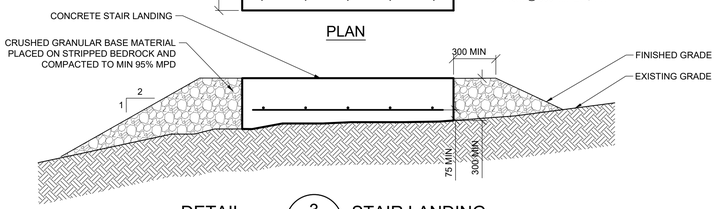

DETAIL SCALE:1:20 — 3 04 STAIR LANDING

1:20 500 0 500 1000mm
1:50 1 0 1 2 3m

WM625-1004

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rev	description	by / par	date
0	ISSUED FOR TENDER	LSL	2021-05-17

Asset - Actif

MCTS TOWER SITE

DISCOVERY

Drawing - Dessin

FOUNDATION ELEVATIONS AND DETAILS

drawn - dessiné	date
LSL	2021-05-17
designed - conception	date
-	-
checked - vérifié	date
-	-
approved - approuvé	date
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CCG ref. no. - no. réf. GCC	scale - échelle
N6247	VARIES
drawing no. - no. dessin	sheet-feuille / rev-rév
WM625-1005	05/09 / 0

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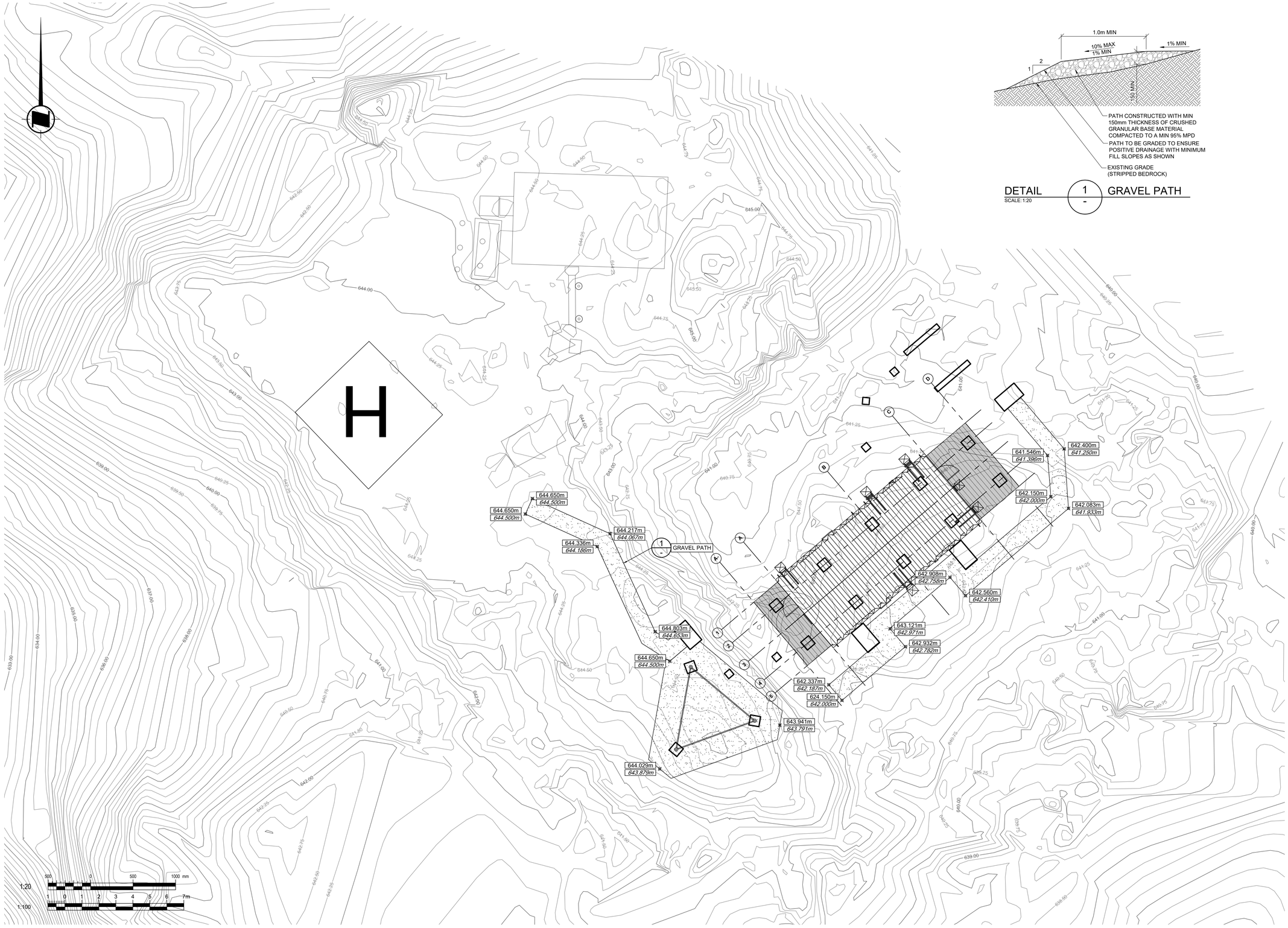

DETAIL 1 - GRAVEL PATH
SCALE: 1:20

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000.000m FINISHED GRADE
000.000m EXISTING GRADE

rev	description	by / par	date
0	ISSUED FOR TENDER	LSL	2021-05-17

Asset - Actif

MCTS TOWER SITE
DISCOVERY

Drawing - Dessin

SITE GRADING PLAN

drawn - dessiné	date: 2021-05-17 (LSL)
designed - conception	date: - (-)
checked - vérifié	date: - (-)
approved - approuvé	date: - (-)
CCG ref. no. - no. réf. GCC	scale - échelle: VARIES (N6247)
drawing no. - no. dessin	sheet-feuille: 06/09; rev-rév: 0 (WM625-1005)

File / Fichier: WM 625-1005 DISCOVERY MOUNTAIN SITE LAYOUT PACKAGE_IFT_REVO.DWG - Printed / Imprimé: 2021/05/18 10:8

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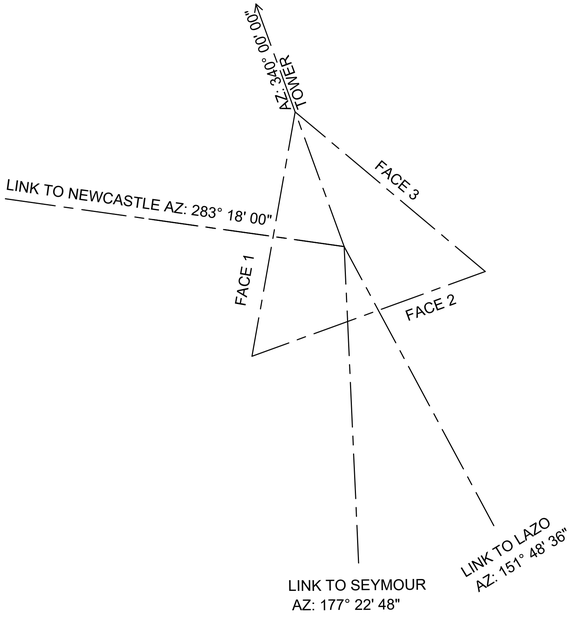
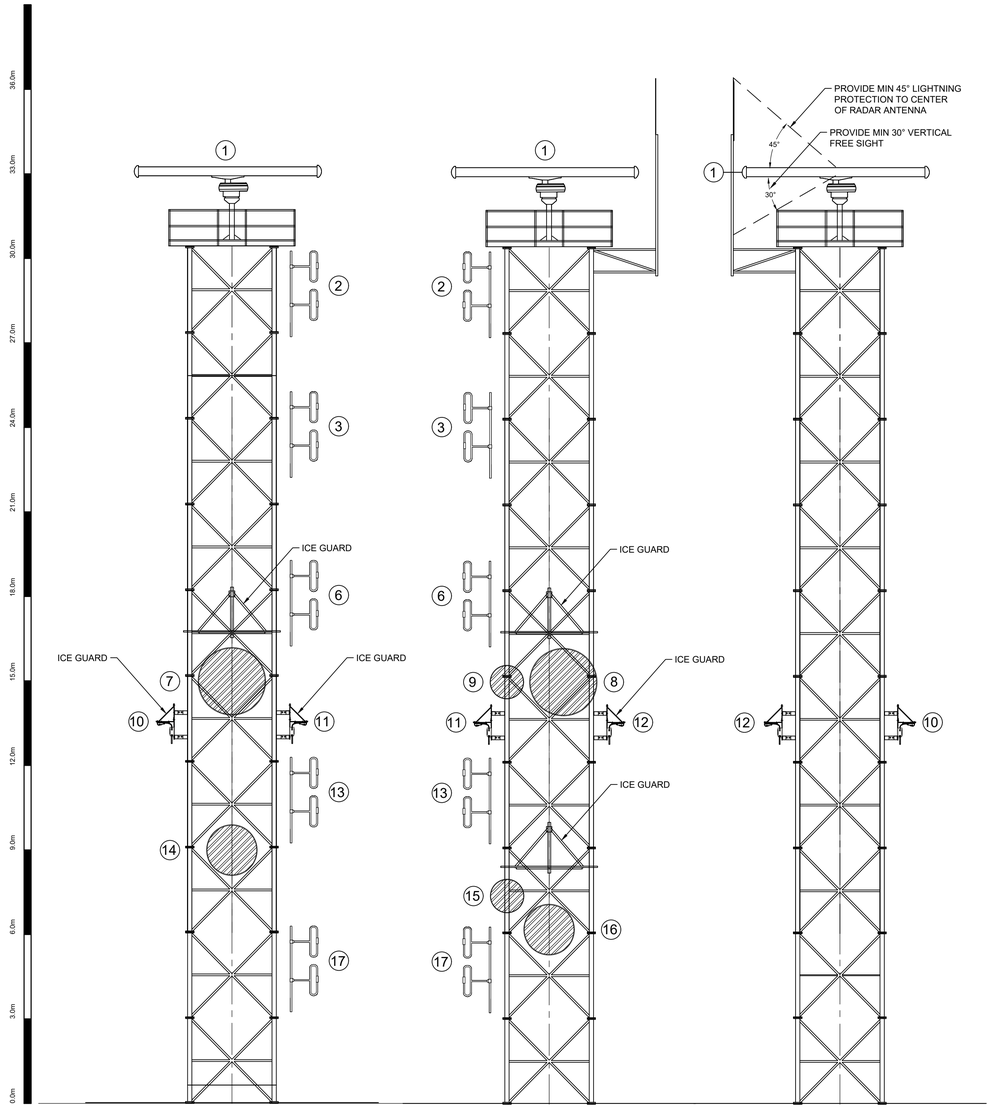


PLAN 1 - TOWER ORIENTATION
SCALE: 1:50



ELEVATION A - TOWER ANTENNA LAYOUT
SCALE: 1:100

ANTENNA SCHEDULE - DISCOVERY MOUNTAIN

ANTENNA (#)	USER	ELEV	SYSTEM	ANTENNA MODEL	ANDREWS/COMMSCOPE	INITIAL OR FUTURE	AZIMUTH	Tx-LINE	ANTENNA MOUNT TYPE
1	CCG	33.0m	RADAR TBD	TBD	TBD	FUTURE	OMNI	TBD	PLATFORM
2	CCG	29.0m	VHF CH16	872F-70HDB	COMPROD	INITIAL	270.00	LDF4 X 1	LEG MOUNT
3	CCG	24.0m	VHF RX	872F-70HDB	COMPROD	INITIAL	270.00	LDF4 X 1	LEG MOUNT
4	DFO	24.0m	DFO UHF	307R	SINCLAIR	FUTURE	TBD	LDF4 X 1	LEG MOUNT
5	DFO	24.0m	DFO UHF	307R	SINCLAIR	FUTURE	TBD	LDF4 X 1	LEG MOUNT
6	CCG	18.0m	VHF TX	872F-70HDB	COMPROD	INITIAL	270.00	LDF4 X 1	LEG MOUNT
7	CCG	15.0m	MICROWAVE MAIN F. NEWCASTLE W/ ICE GAURD	HX8-6W	ANDREWS/COMMSCOPE	INITIAL	283.30	EWP63 X 2	FACE MOUNT
8	CCG	15.0m	MICROWAVE MAIN F. LAZO W/ ICE GUARD	HX8-6W	ANDREWS/COMMSCOPE	INITIAL	151.81	EWP63 X 2	FACE MOUNT
9	CCG	15.0m	MICROWAVE MAIN F. SEYMOUR	HSX4-107	ANDREWS/COMMSCOPE	INITIAL	177.38	EWP90 X 1	FACE MOUNT
10	CCG	13.5m	CAMERA 1 W/ ICE GUARD	INHOUSE	IN HOUSE	INITIAL	20.00	CAT6 X 1	LEG MOUNT
11	CCG	13.5m	CAMERA 2 W/ ICE GUARD	INHOUSE	IN HOUSE	INITIAL	180.00	CAT6 X 1	LEG MOUNT
12	CCG	13.5m	CAMERA 3 W/ ICE GUARD	INHOUSE	IN HOUSE	INITIAL	290.00	CAT6 X 1	LEG MOUNT
13	CCG	11.0m	VHF MULTI	872F-70HDB	COMPROD	INITIAL	270.00	LDF4 X 1	LEG MOUNT
14	CCG	9.0m	MICROWAVE DIV F. NEWCASTLE	HX8-6W	ANDREWS/COMMSCOPE	INITIAL	283.30	EWP63 X 2	FACE MOUNT
15	CCG	7.4m	MICROWAVE DIV F. SEYMOUR	HSX4-107	ANDREWS/COMMSCOPE	INITIAL	177.38	EWP90 X 1	FACE MOUNT
16	CCG	6.2m	MICROWAVE DIV F. LAZO	HX8-6W	ANDREWS/COMMSCOPE	INITIAL	151.81	EWP63 X 2	FACE MOUNT
17	DFO	5.0m	DFO VHF	872F-70HDB	COMPROD	INITIAL	270.00	LDF4 X 1	LEG MOUNT

1:100 1 0 1 2 3 4 5 6 7m

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rev	description	by par	date
0	ISSUED FOR TENDER	LSL	2021-05-17

Asset - Actif

MCTS TOWER SITE
DISCOVERY

Drawing - Dessin

ANTENNA LAYOUT

drawn - dessiné	date
LSL	2021-05-17
designed - conception	date
-	-
checked - vérifié	date
-	-
approved - approuvé	date
-	-
CCG ref. no. - no. réf. GCC	scale - échelle
N6247	VARIES
drawing no. - no. dessin	sheet-feuille / rev-rév
WM625-1005	07/09 / 0

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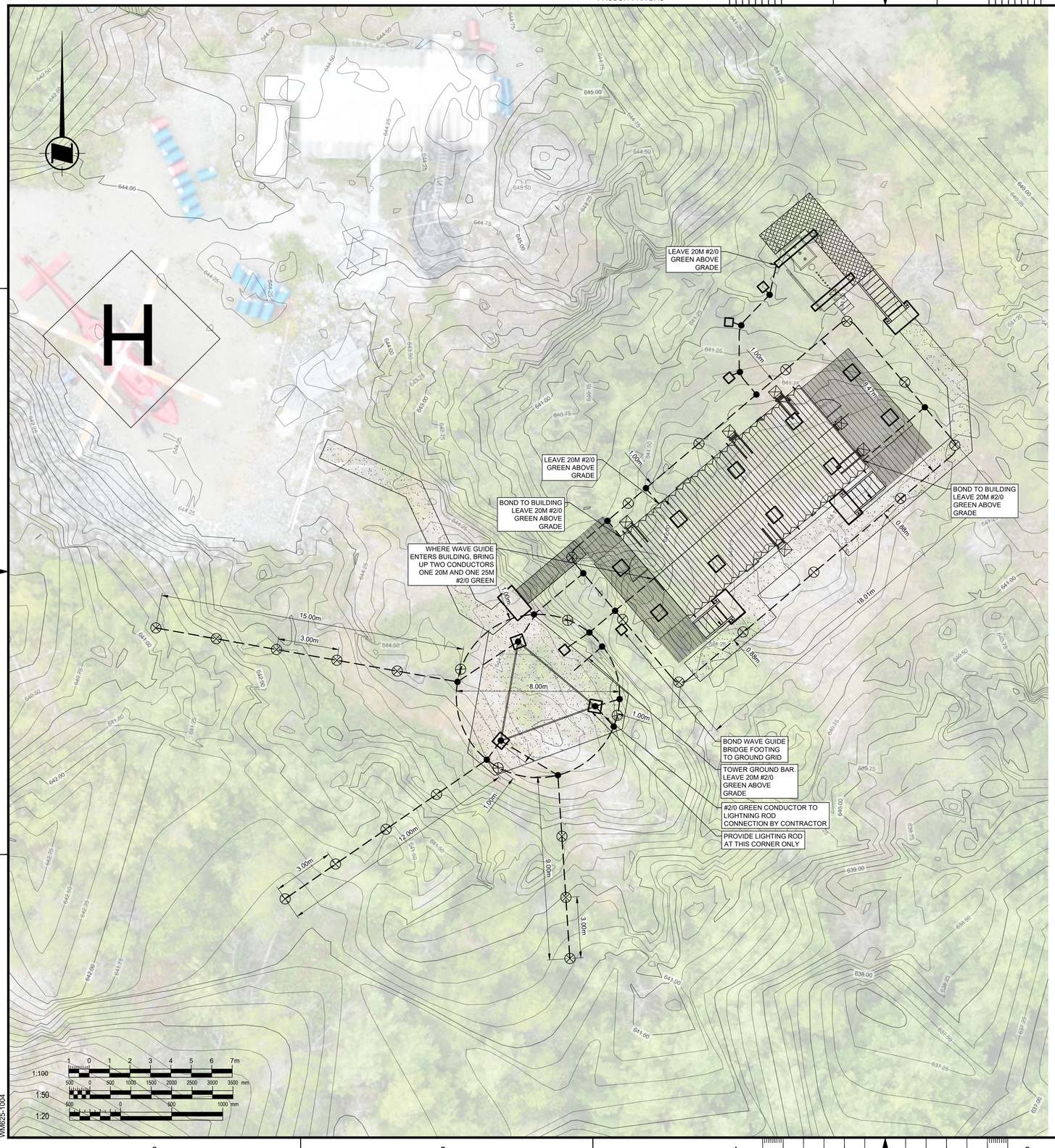
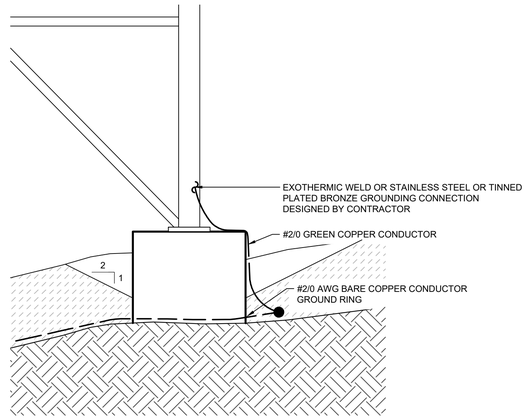
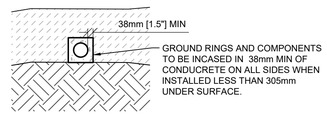
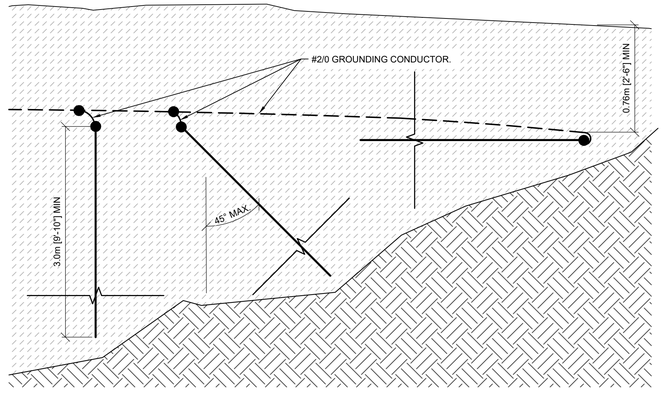




DETAIL 1 - TRANSITION TO ABOVE GRADE
SCALE:1:20



DETAIL 2 - TRENCH WITH GEM DETAIL
SCALE:1:50



DETAIL 3 - ANGLED GROUND ROD INSTALLATION
SCALE:1:20

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GROUNDING NOTES

1. ALL BURIED GROUNDING CONDUCTORS SHALL BE #2/0 AWG, BARE, STRANDED TINNED OR UN-TINNED.
2. ALL SPLICES SHALL BE MADE THROUGH IRREVERSIBLE COMPRESSION TYPE CONNECTORS, DESIGNED FOR USE WITH GROUNDING.
3. ABOVE-GROUND BONDING CONDUCTORS SHOULD BE JACKETED, WHENEVER PRACTICAL.
4. SHARP BENDS SHALL BE AVOIDED, WITH A MINIMUM RADIUS OF 203MM.
5. BUILDING SHALL BE BONDED TO THE GROUND RING IN AT LEAST TWO POINTS, WITH AS MUCH PHYSICAL SEPARATION AS PRACTICAL.
6. GROUND RINGS SHALL BE BURIED TO A DEPTH OF 762MM WHERE PRACTICAL. WHEN NOT PRACTICAL TO BURY BELOW 305MM, 38MM OF CONDUCRETE SHALL BE UTILIZED ON ALL SIDES OF THE GROUND COMPONENT. ANY VARIATIONS ARE TO BE DOCUMENTED AS PART OF RED-LINE MARKUPS.
7. WHEN ADJUSTING GROUND LOOP FROM DIFFERENT DEPTHS, MINIMUM BEND RADIUS OF NOTE 4 SHALL BE ADHERED TO.
8. GROUND RINGS SHALL BE A MINIMUM OF 610MM FROM FOUNDATIONS OF BUILDING AND TOWERS, OR GREATER WHERE SPECIFIED IN THE DRAWINGS.
9. GROUND RODS SHALL BE COPPER OR COPPER CLAD, 3M LENGTH AND 19.05MM DIAMETER.
10. GROUND RODS SHALL BE SPACED 3M TO 4.5M APART AROUND THE GROUND RING.
11. THE UPPER END OF THE GROUND ROD SHALL BE BURIED TO THE DEPTH OF THE GROUND RING TO ALLOW FOR EASY BONDING.
12. GROUND RODS SHALL BE INSTALLED VERTICALLY WHERE PRACTICAL. RODS MAY BE INSTALLED HORIZONTALLY OR AT AN ANGLE OF 45° FROM VERTICAL, AND PERPENDICULAR TO THE BUILDING. ORIENTATION VARIATION AND DEPTHS MUST BE DOCUMENTED AS PART OF RED-LINE MARKUPS.
13. RODS ARE PREFERED TO BE INSTALLED AS CLOSE TO VERTICAL AS POSSIBLE THROUGH HAMMER DRILLING. IF RODS CANNOT BE INSTALLED WITHOUT DEFORMING, THEY SHALL BE INSTALLED HORIZONTALLY AS DEEP AS PRACTICAL.
14. HORIZONTAL GROUND RODS ON RADIALS WILL BE INSTALLED PERPENDICULAR TO RADIAL.
15. RODS ARE NOT TO BE INSTALLED IN PRE DRILLED HOLES.
16. IF GROUND RODS ARE INSTALLED LESS THAN 305MM DEEP, THEY SHALL BE ENCASED IN 38MM OF CONDUCRETE ON ALL SIDES.
17. GROUND RODS CAN BE SUBSTITUTED WITH GROUND PLATES, WHERE SITUATIONS DO NOT ALLOW FOR INSTALLATION OF GROUND RODS.
18. COPPER GROUND PLATES SHALL BE 1.5MM THICK AND COPPER-CLAD STEEL SHALL BE 6.4MM MINIMUMS.
19. GROUND PLATES SHALL HAVE 0.186M² MINIMUM SURFACE EXPOSED TO BACKFILL MATERIAL.
20. IF GROUND PLATES ARE INSTALLED LESS THAN 305MM DEEP, THEY SHALL BE ENCASED IN 76MM OF CONDUCRETE ON ALL SIDES.
21. ANY SURFACE INSTALLED GROUNDING EQUIPMENT SHALL HAVE CONDUCRETE SHAPED TO PREVENT TRIPPING HAZARDS.

LEGEND

- JUNCTION
- GROUND ROD
- GROUND CONDUCTOR

rev	description	by / par	date
0	ISSUED FOR TENDER	LSL	2021-05-17

Asset - Actif

MCTS TOWER SITE
DISCOVERY

Drawing - Dessin

GROUNDING PLAN

drawn - dessiné	date
LSL	2021-05-17
designed - conception	date
-	-
checked - vérifié	date
-	-
approved - approuvé	date
-	-
CCG ref. no. - no. réf. GCC	scale - échelle
N6247	VARIES
drawing no. - no. dessin	sheet-feuille / rev-rév
WM625-1005	08/09 / 0

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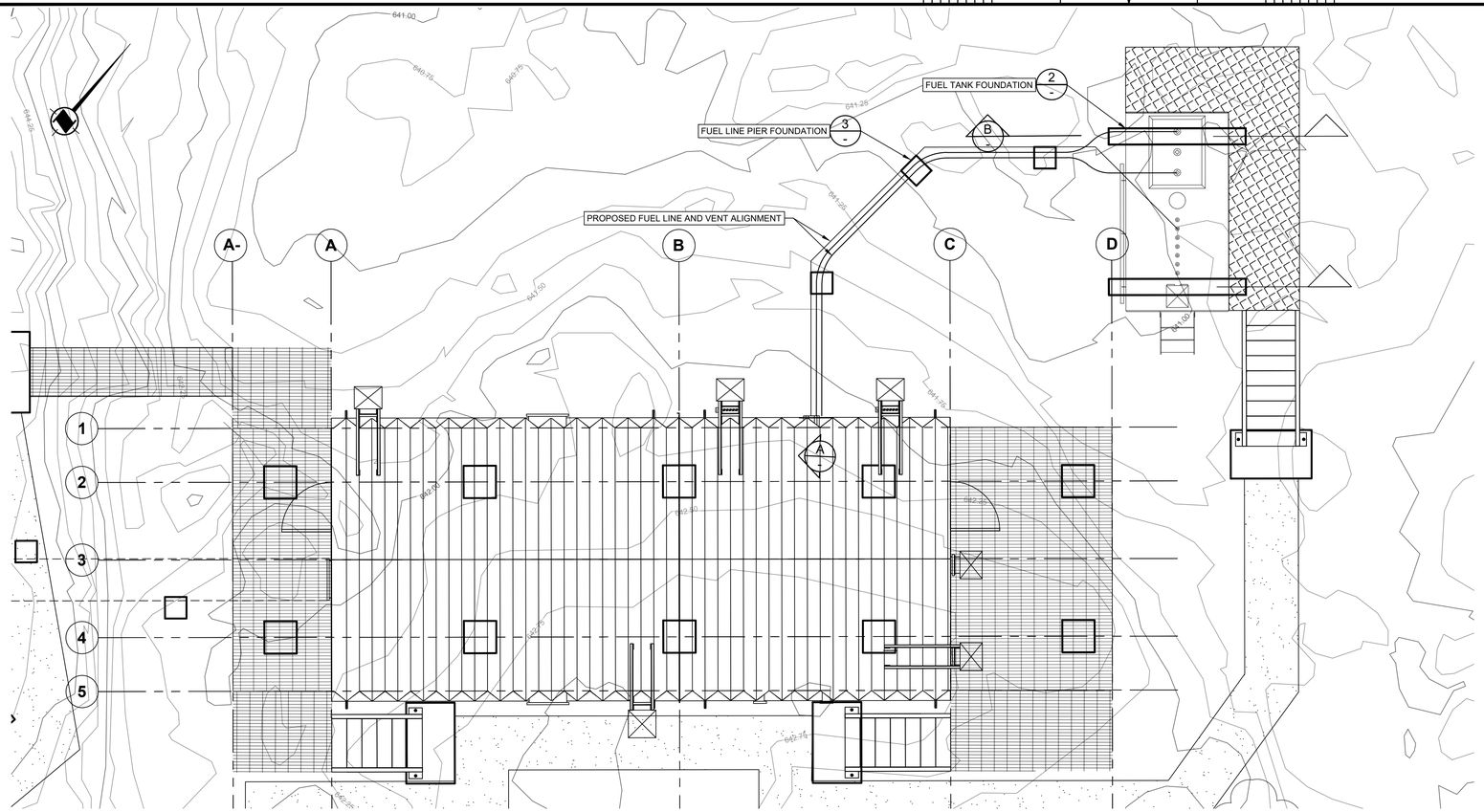
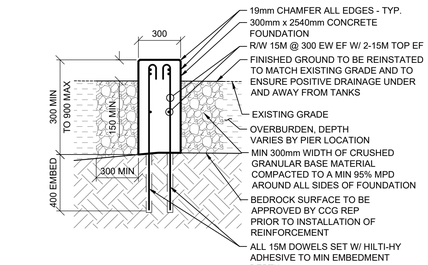
CAD PRODUCED DRAWING
PRODUIT PAR DAO

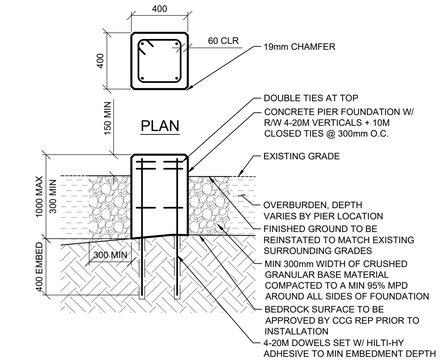
REPORT ANY ERRORS OR OMISSIONS TO ILS MANAGER
SIGNALER LES ERREURS OU LES OMISSIONS AU GESTIONNAIRE SLI



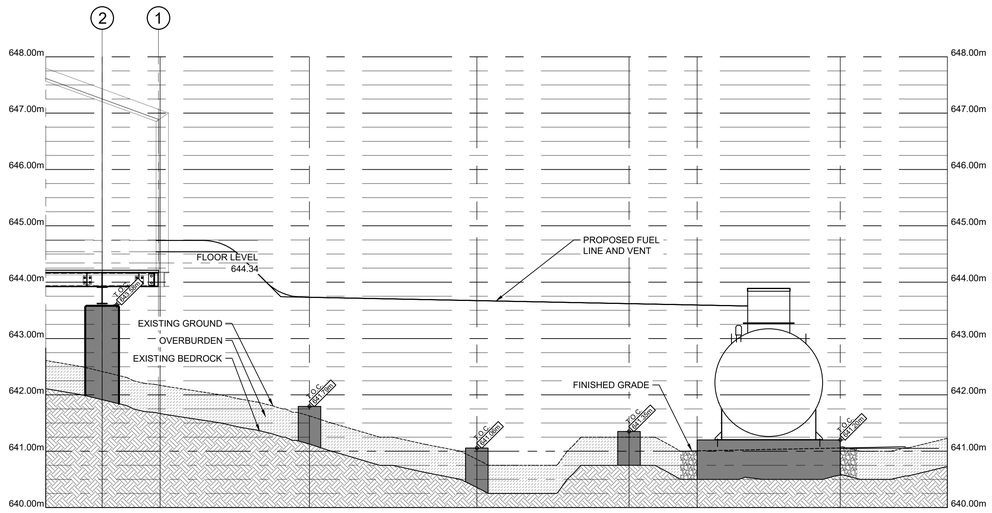
PLAN 1 - FUEL TANK LAYOUT
SCALE: 1:50



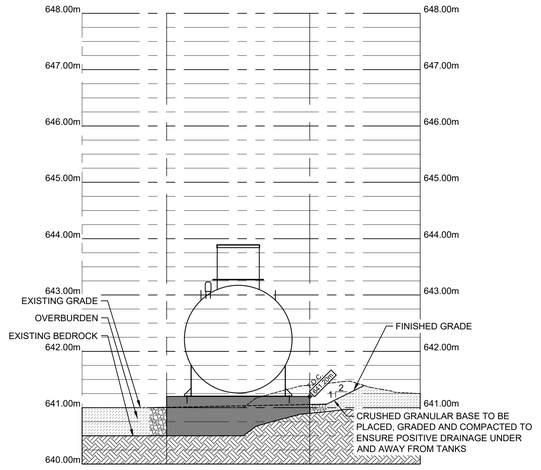
DETAIL 2 / 04 FUEL TANK FOUNDATION
SCALE: 1:20



DETAIL 3 / 04 FUEL LINE PIER FOUNDATION
SCALE: 1:20



ELEVATION A - FUEL ALIGNMENT AND NORTH FUEL TANK FOUNDATION
SCALE: 1:50



ELEVATION B - SOUTH FUEL TANK FOUNDATION
SCALE: 1:50

1:50 500 0 500 1000 1500 2000 2500 3000 3500 mm
1:20 500 0 500 1000 mm

WM625-1004

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Canadian Coast Guard / Garde côtière Canadienne

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DISCOVERY

Drawing - Dessin

FUEL TANK DETAILS

drawn - dessiné	date: LSL 2021-05-17
designed - conception	date: -
checked - vérifié	date: -
approved - approuvé	date: -
CCG ref. no. - no. réf. GCC	scale - échelle: N6247 / VARIES
drawing no. - no. dessin	sheet-feuille: WM625-1005 / 09/09; rev-rév: 0

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