

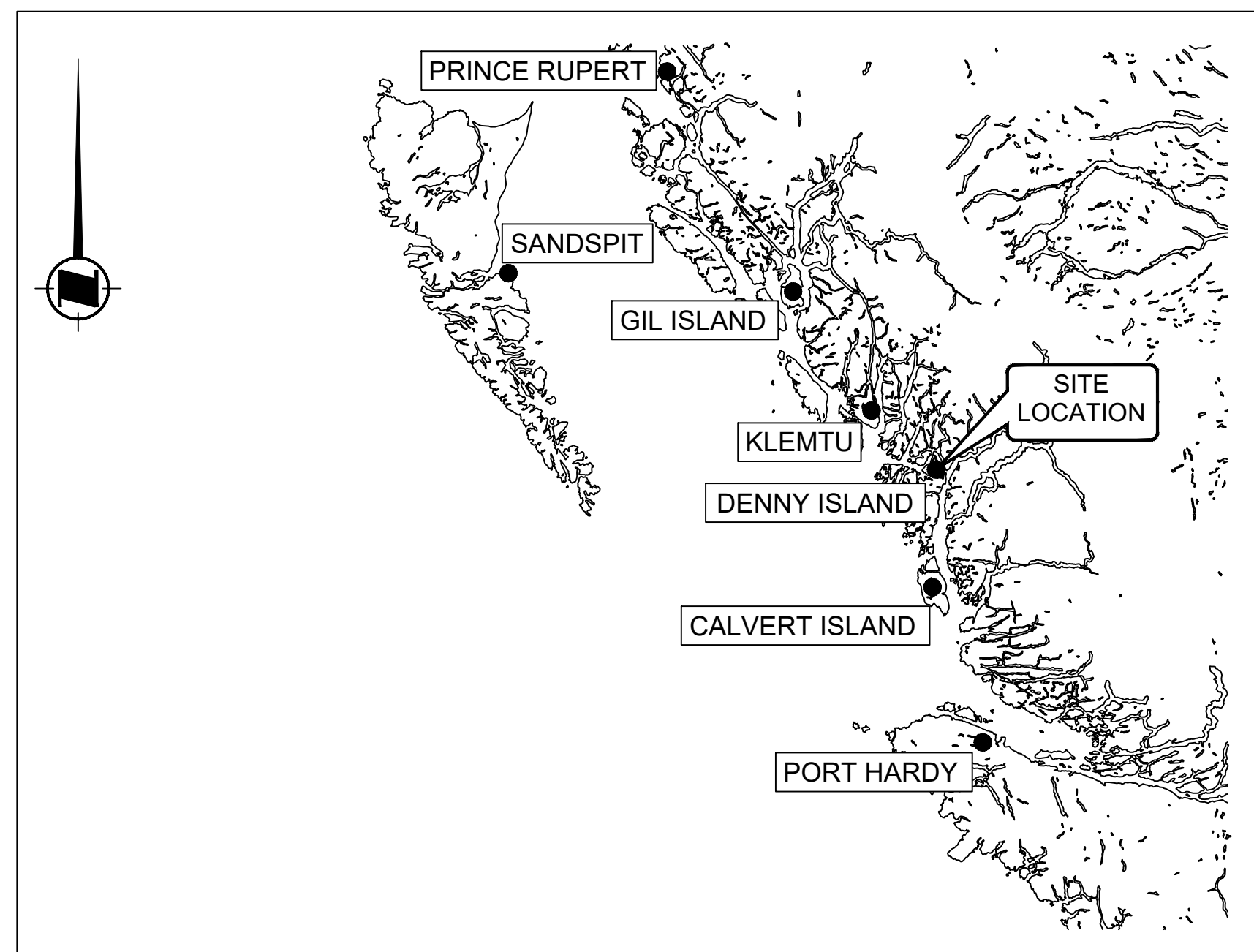
CANADIAN COAST GUARD DENNY ISLAND MCTS SITE BELLA BELLA, BC

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 2015 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.

DRAWING LIST	
SHEET NUMBER	DRAWING NAME
01	COVER SHEET
02	SITE PLAN
03	FOUNDATION PLAN
04	FOUNDATION DETAILS AND ELEVATIONS
05	ANTENNA LAYOUT
06	GROUNDING PLAN
07	HELIPAD DETAILS
08	FUEL TANK DETAILS



SITE LOCATION MAP
NOT TO SCALE



KEY PLAN
SCALE: 1:250

0	ISSUED FOR TENDER	GR	2021-09-03
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Asset - Actif	
MCTS TOWER SITE DENNY ISLAND	

Drawing - Dessin	
COVER SHEET	

Drawn - dessiné	GR	2021-09-03
Designed - conception	GR	2021-09-03
Checked - vérifié	BT	2021-09-03
Approved - approuvé	BT	2021-09-03

CCG ref. no. - no. réf. GCC	8B100-19002	scale - échelle	AS SHOWN
Drawing no. - no. dessin	WM-637-1003	sheet-feuille	01/08
rev-rév			0

D

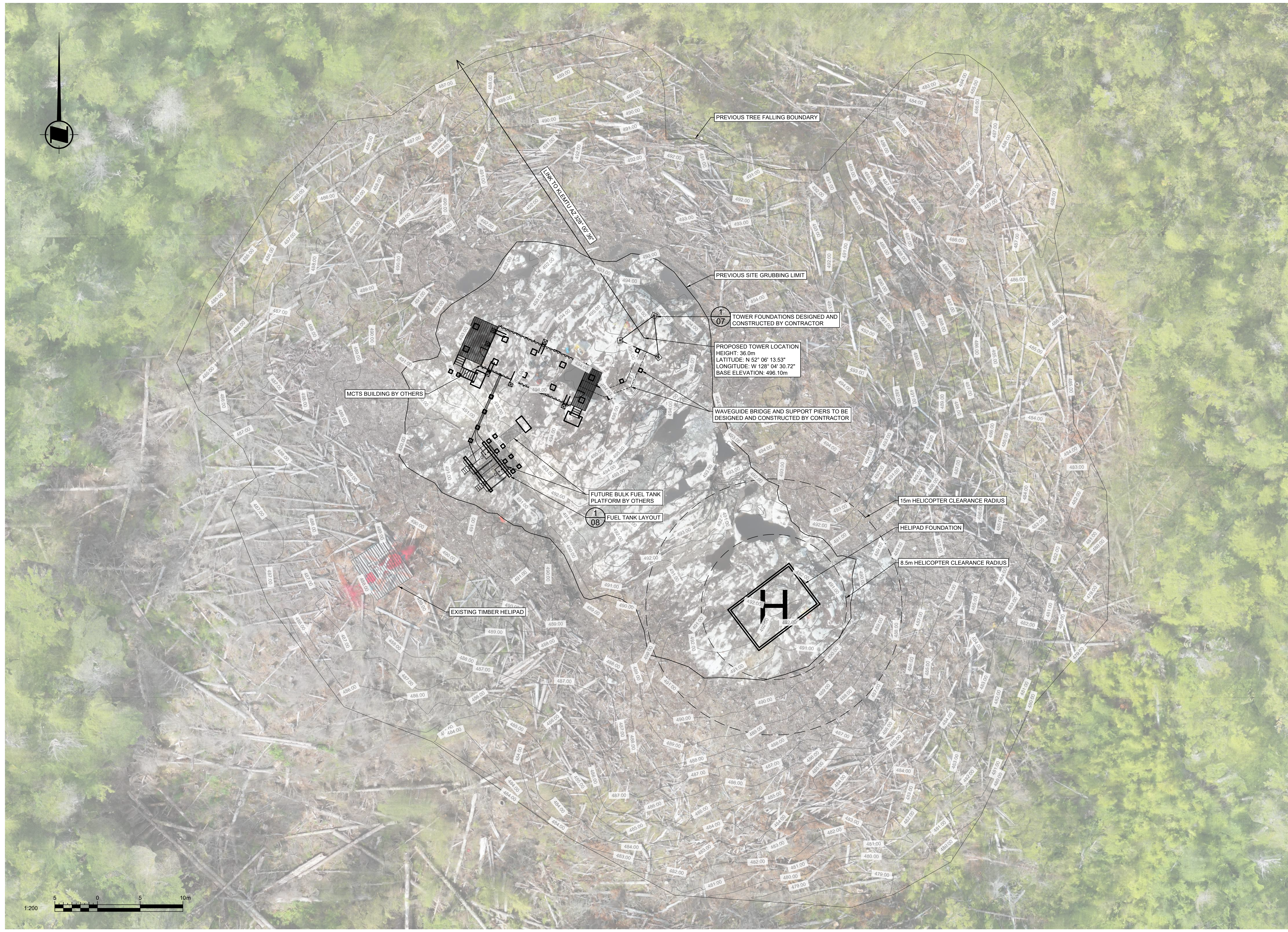
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Vendor Information / Sous-traitant
LEGEND
 — 491.00 — MAJOR CONTOURS
 TOPOGRAPHIC CONTOURS BASED ON SITE SURVEY COMPLETED 2019-10-11 and UAV SURVEY COMPLETED 2019-07-16.
 ORTHO-IMAGERY DERIVED FROM UAV SURVEY COMPLETED 2019-07-16.
 CONTROL INFORMATION BASED ON OBSERVATIONS USING CSRS-PPP SERVICE V2.26.1
 VERTICAL DATUM: ELEVATIONS ARE REFERRED TO CGVD 28
 HORIZONTAL DATUM: COORDINATES ARE REFERRED TO NAD 83 CSRS (2011 EPOCH)
 PROJECTION INFORMATION: UTM ZONE 9N

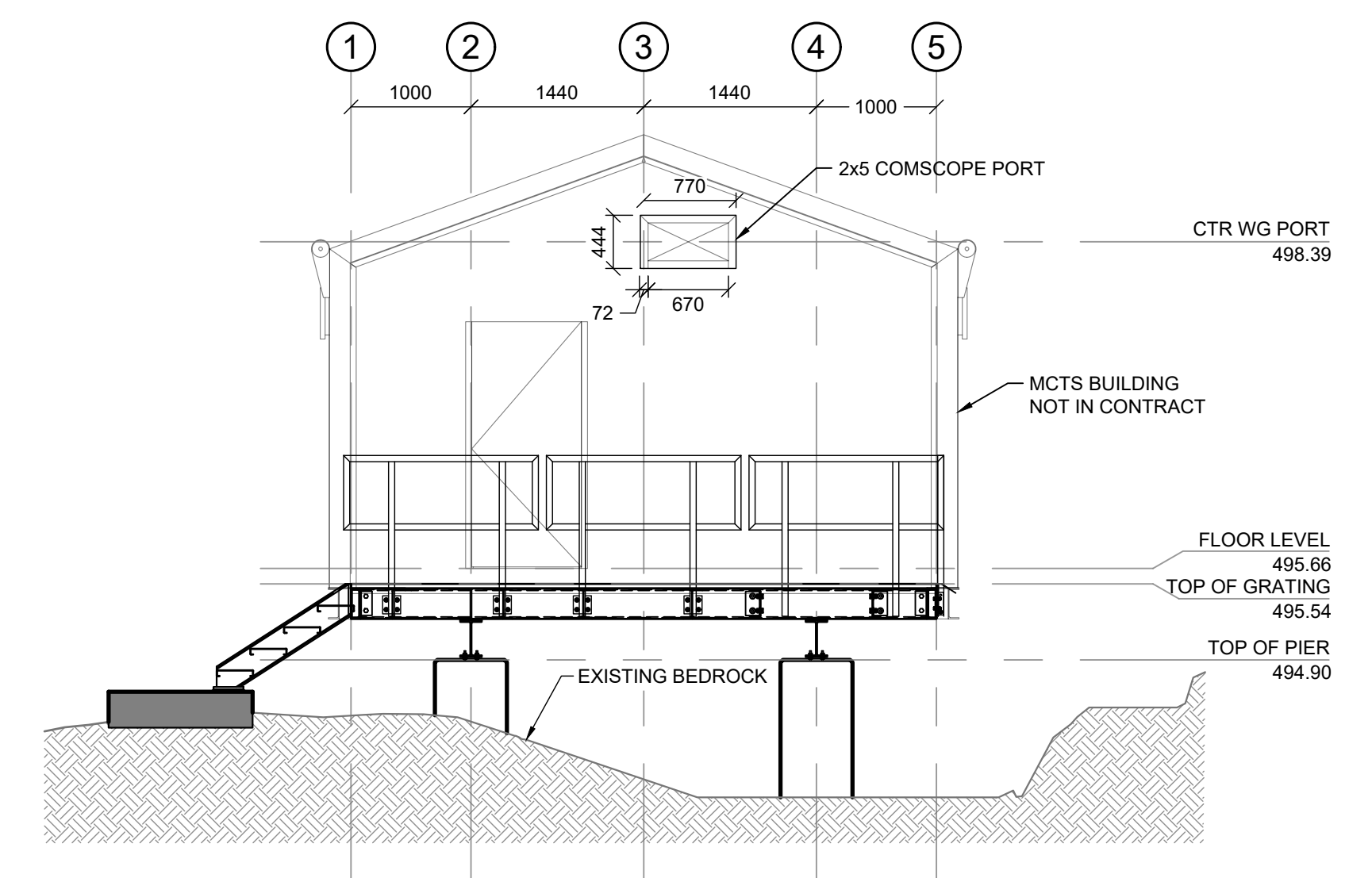
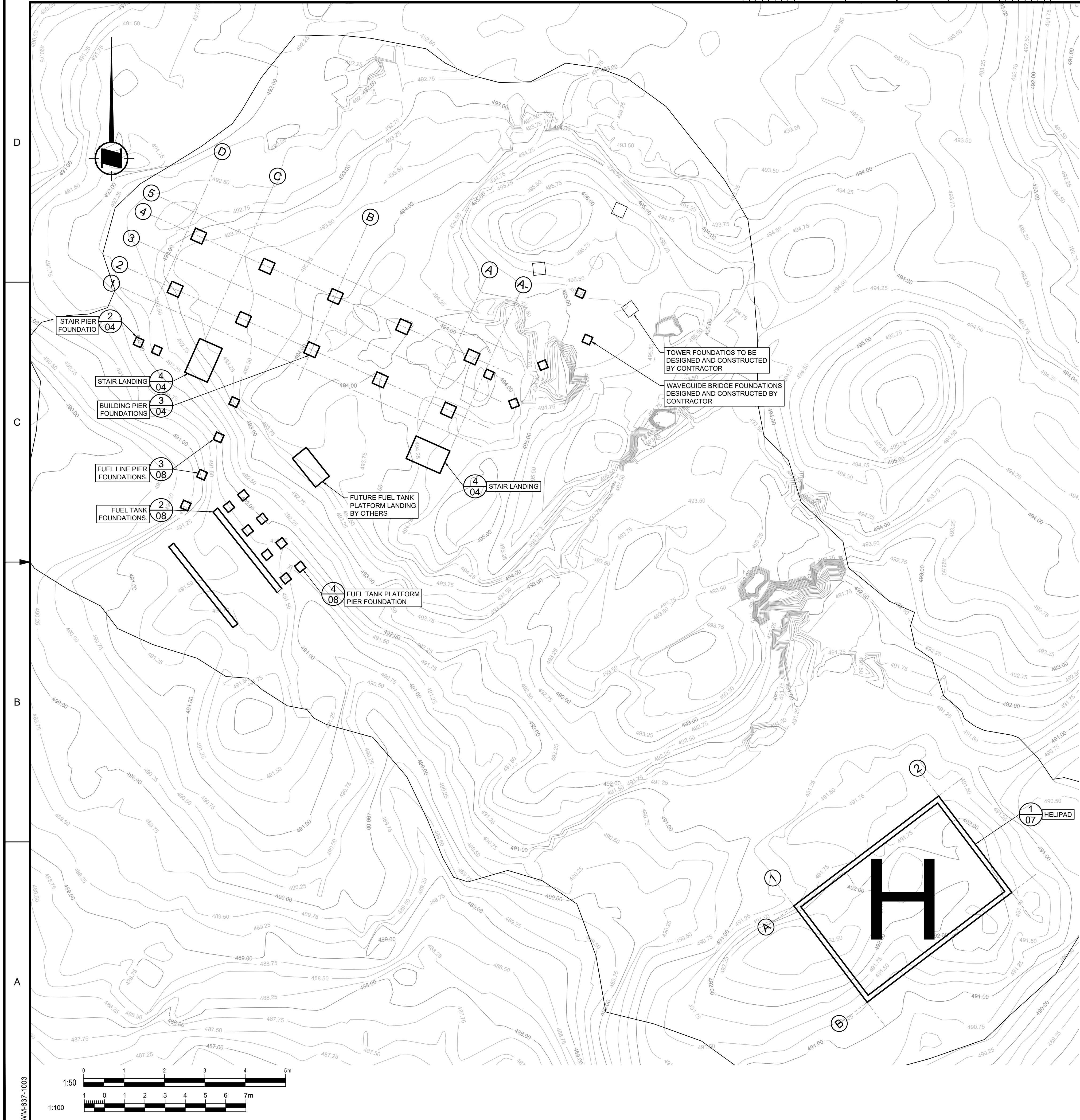
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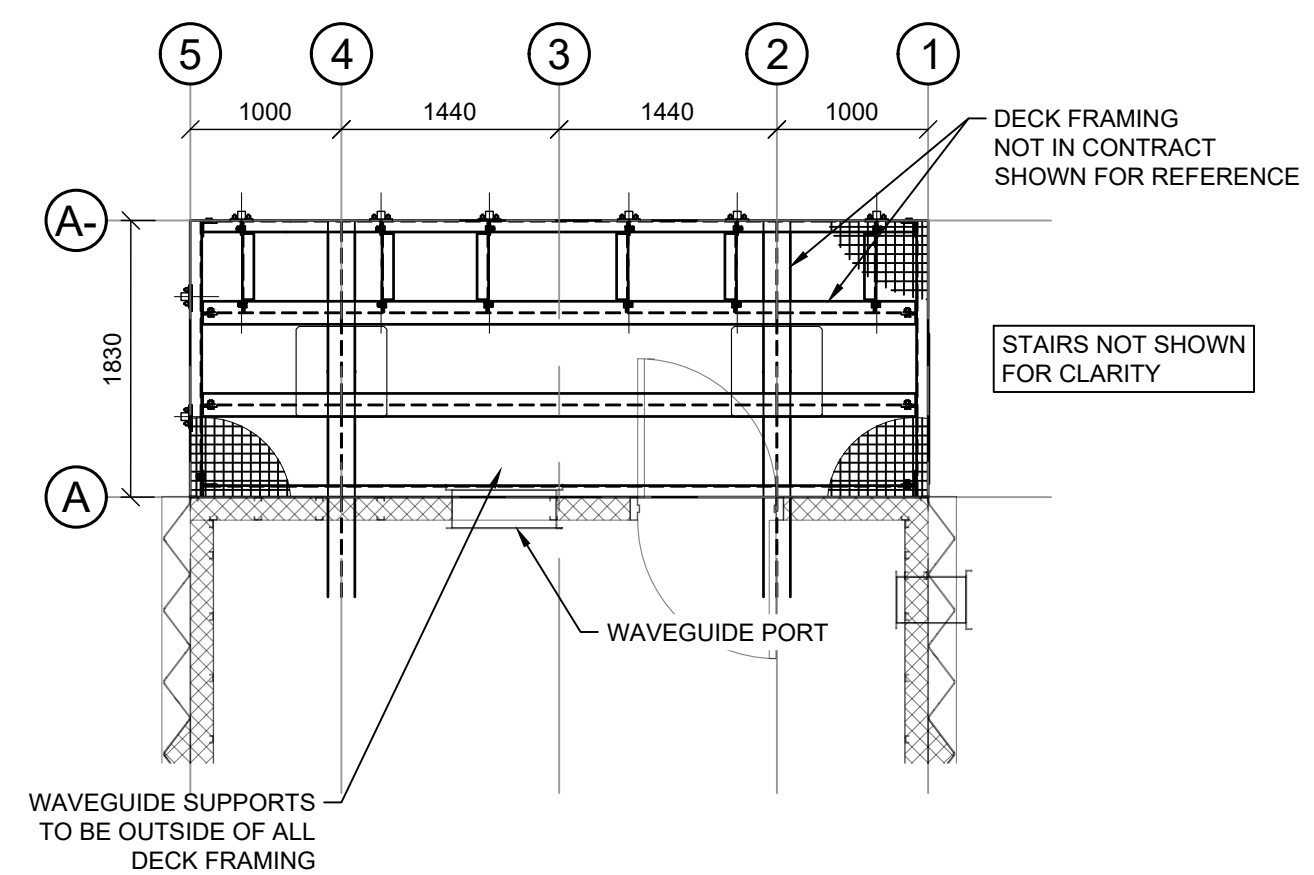
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Drawing - Dessin			
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GR		2021-09-03	
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checked - vérifié		date	
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approved - approuvé		date	
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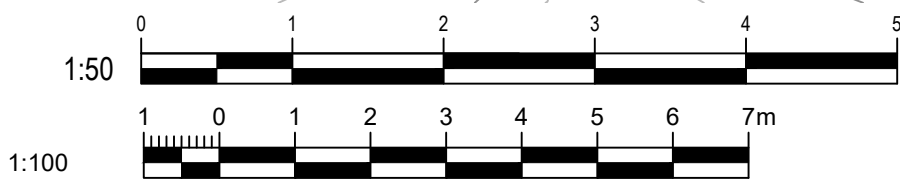
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 File / Fichier: WM-637-1003 DENNY ISLAND SITE LAYOUT PACKAGE DWG - Printed / Imprimé: 2021/09/24 3:28
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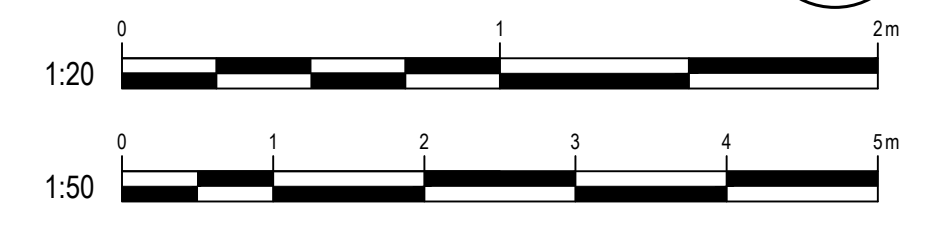
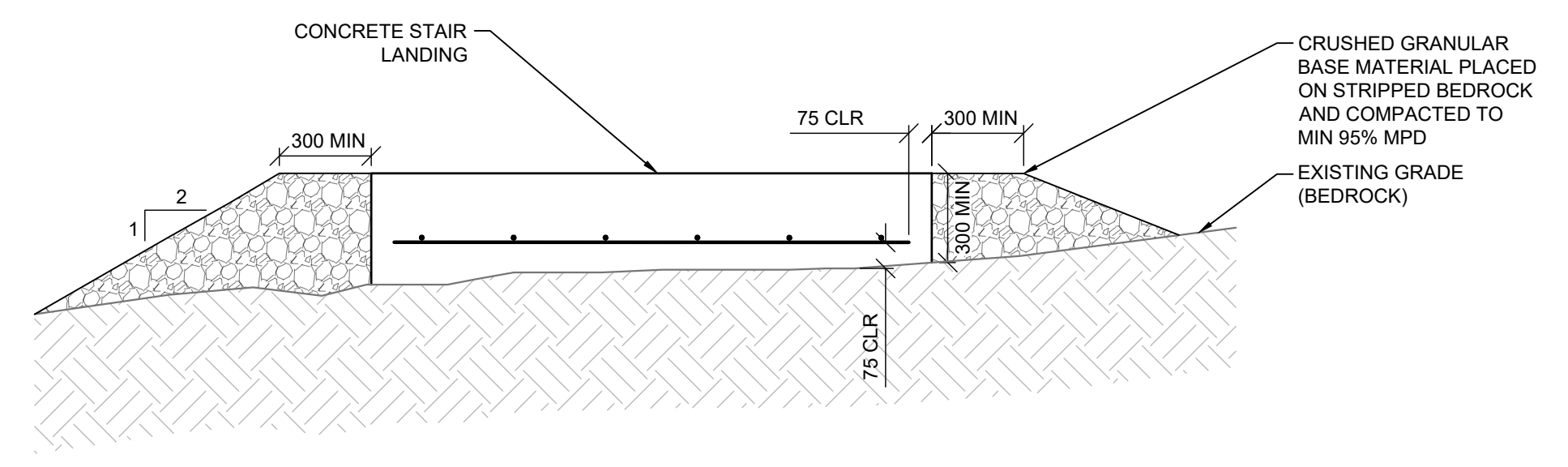
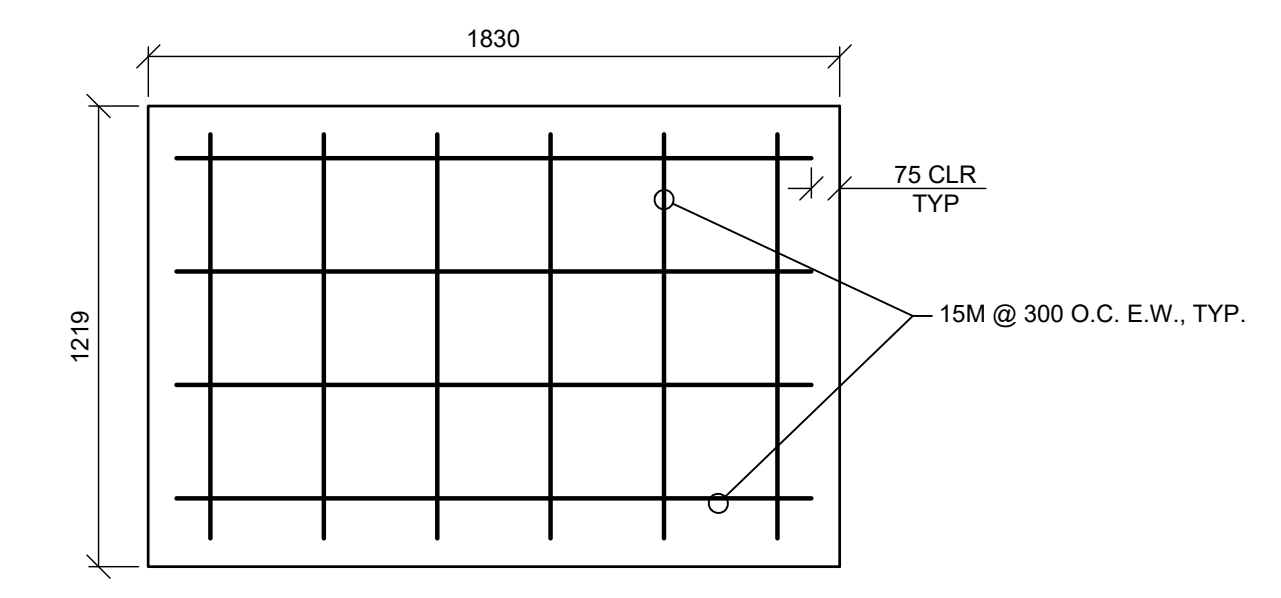
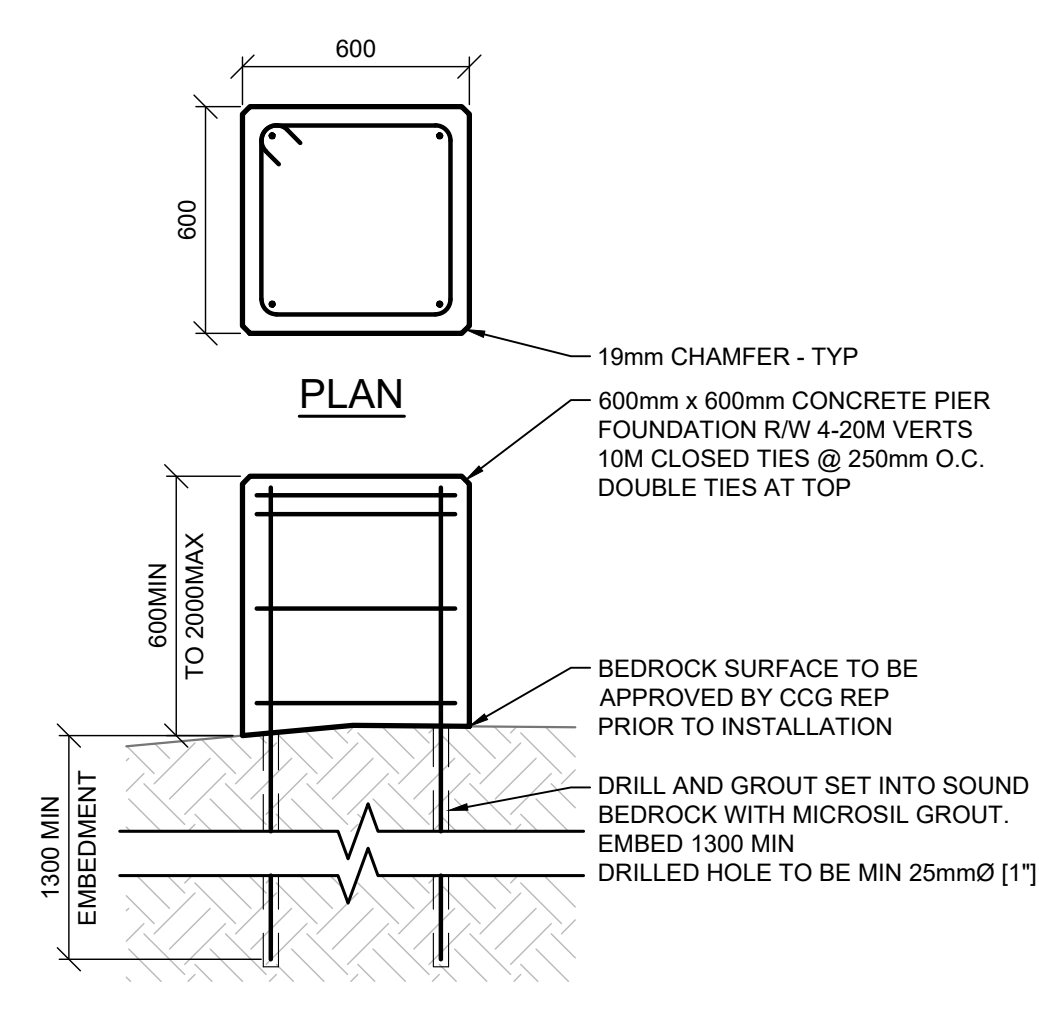
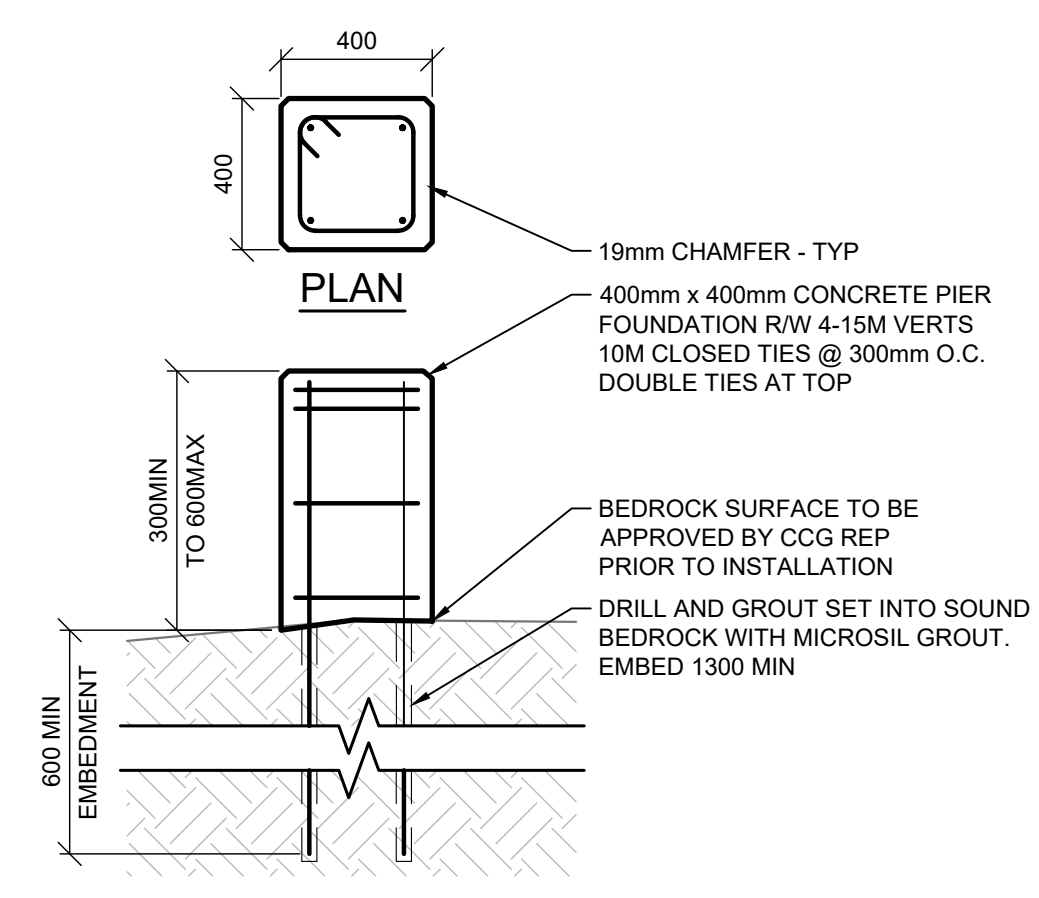
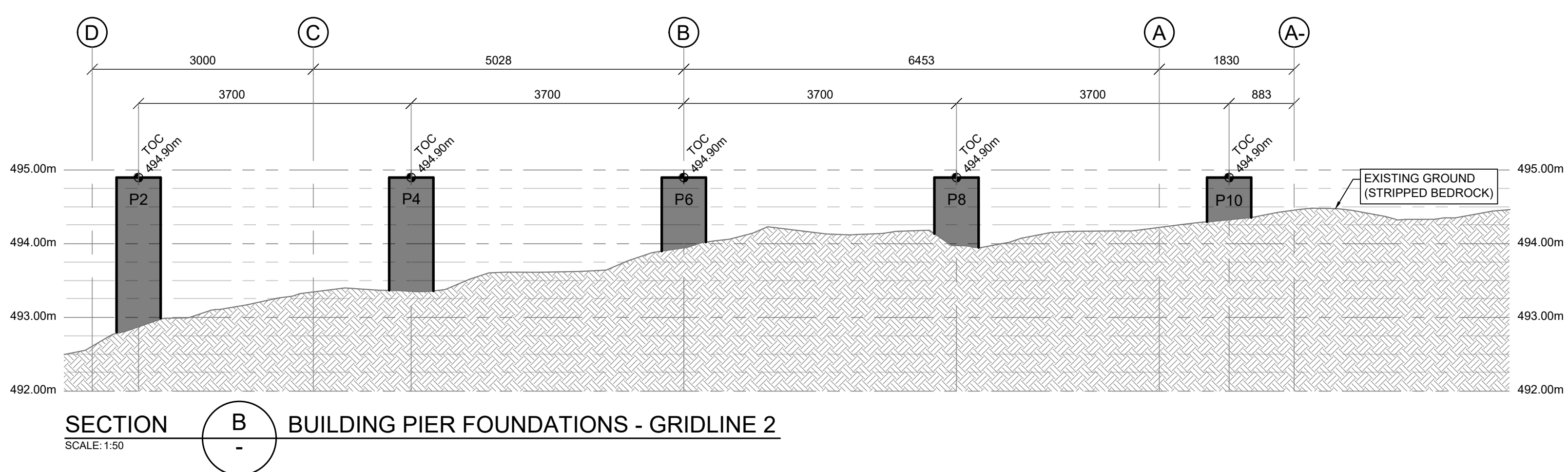
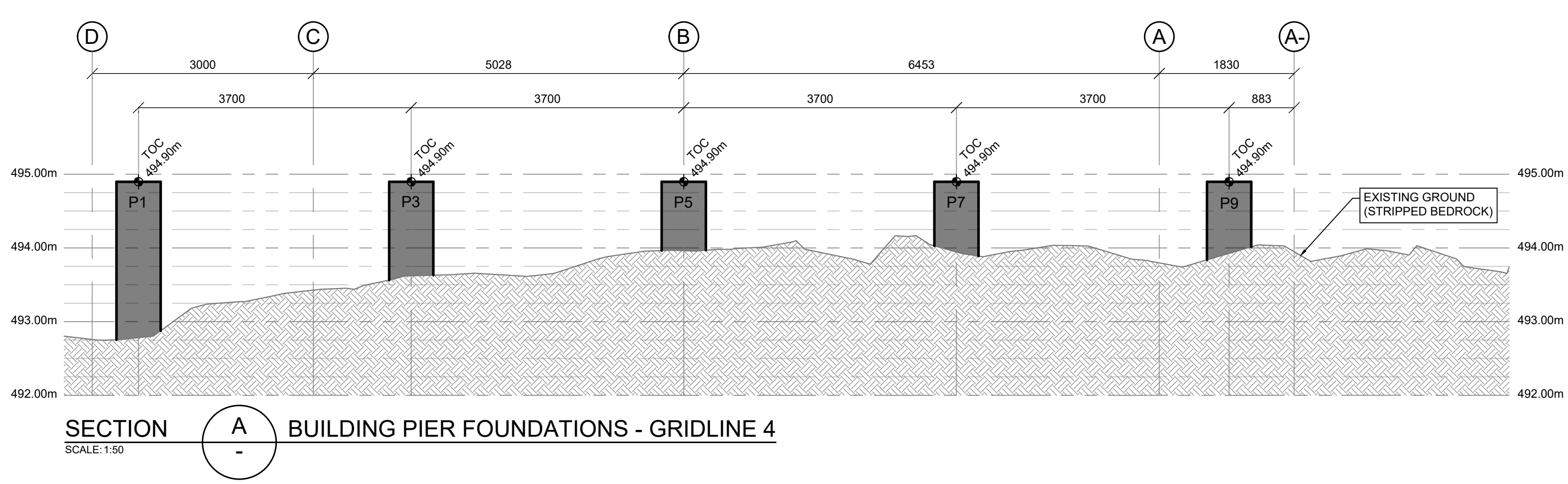
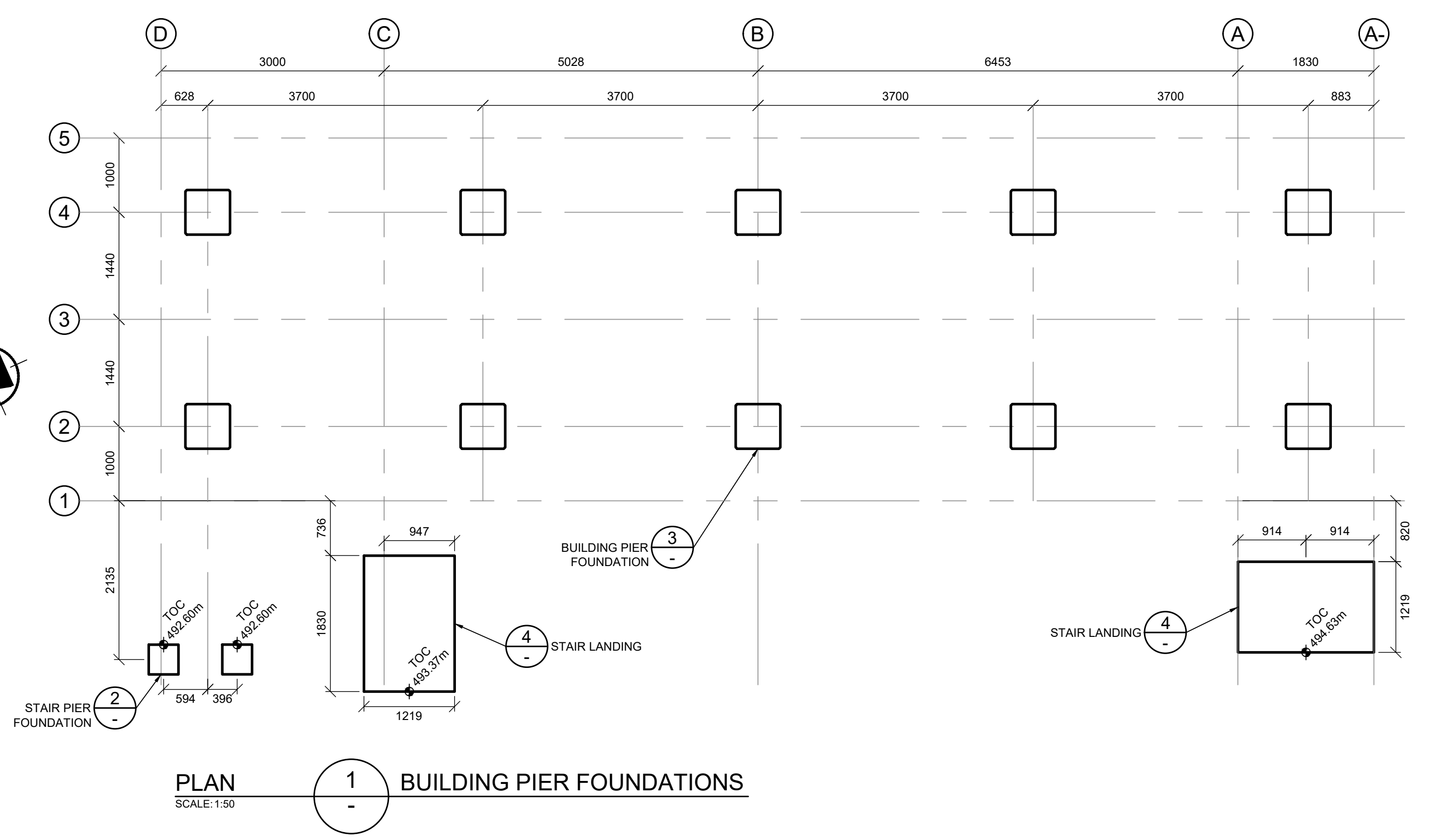
ELEVATION A WAVEGUIDE ENTRY PORT
SCALE: 1:50



PLAN 1 DECK FRAMING
SCALE: 1:50

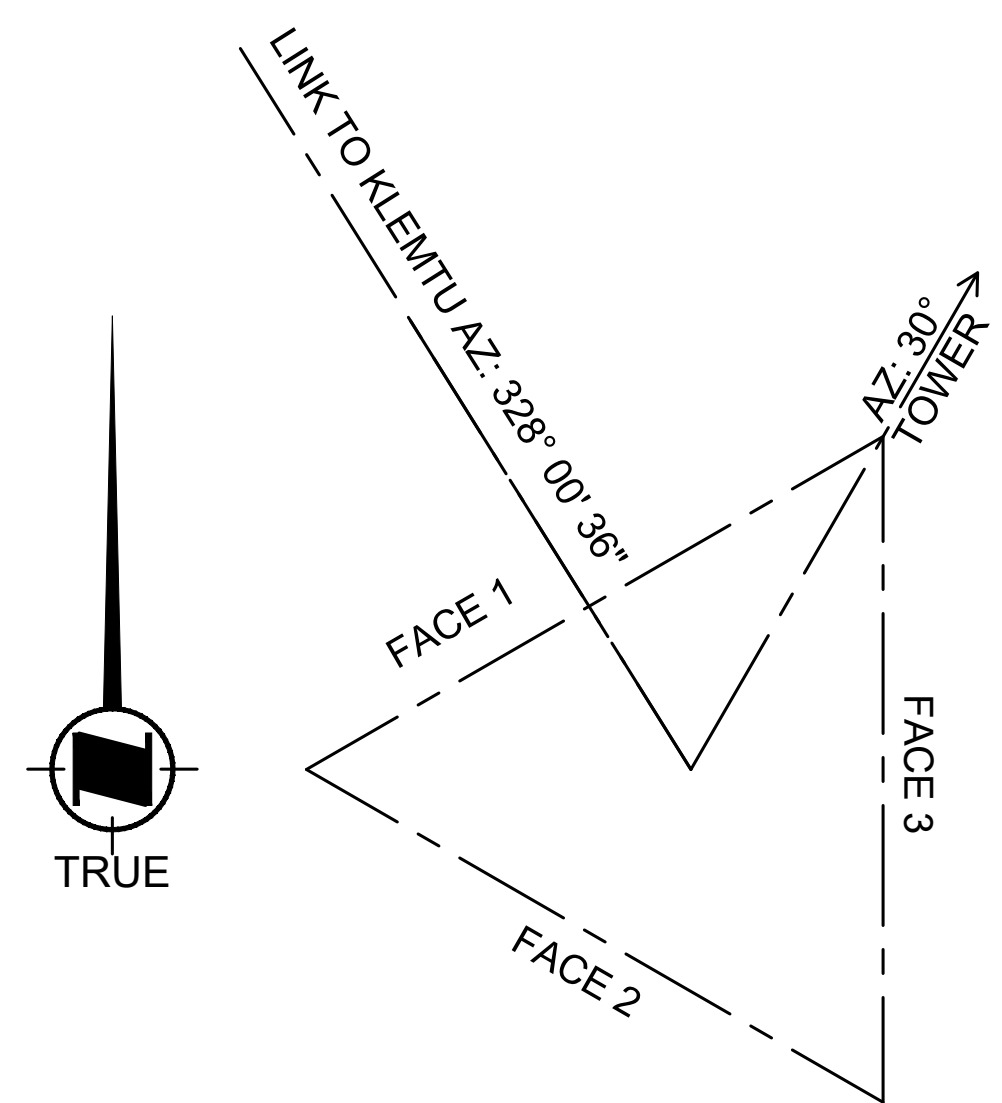


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MCTS TOWER SITE DENNY ISLAND			
Drawing - Dessin			
FOUNDATION PLAN			
drawn - dessiné		date	
GR		2021-09-03	
designed - conception		date	
GR		2021-09-03	
checked - vérifié		date	
BT		2021-09-03	
approved - approuvé		date	
BT		2021-09-03	
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8B100-19002		AS SHOWN	
drawing no. - no. dessin		sheet - feuille	rev - rév
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FOUNDATION DETAILS AND ELEVATIONS			
Drawn - dessiné		date	
GR		2021-09-03	
Designed - conception		date	
GR		2021-09-03	
Checked - vérifié		date	
BT		2021-09-03	
Approved - approuvé		date	
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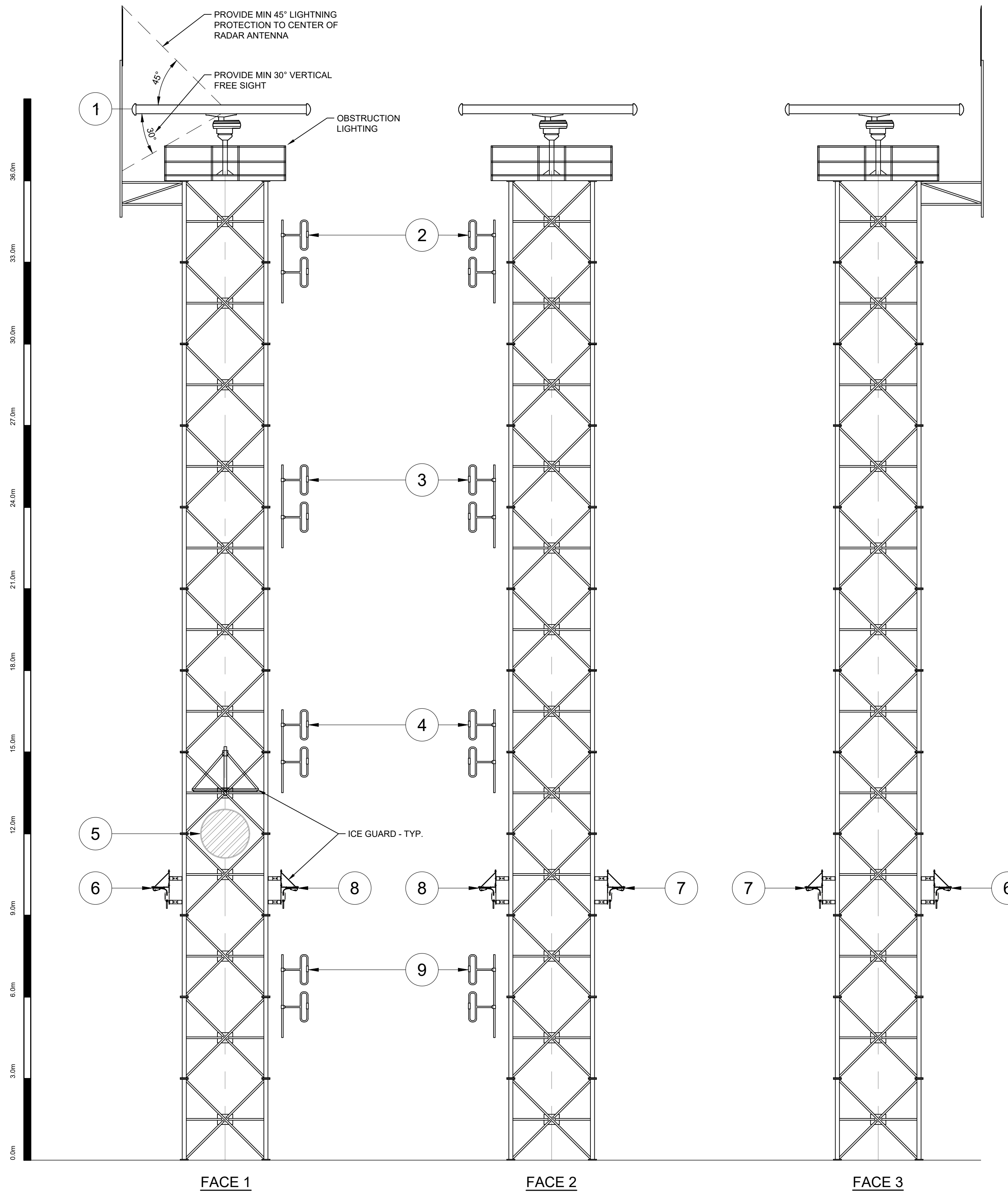
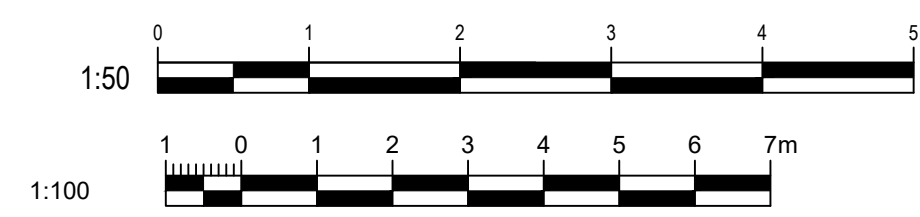
Vendor Information / Sous-traitant



PLAN
SCALE: 1:50
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TOWER ORIENTATION

ANTENNA SCHEDULE - DENNY ISLAND

ANTENNA (#)	USER	ELEV	SYSTEM	ANTENNA MODEL	MAKE	INITIAL OR FUTURE	AZIMUTH	Tx-LINE	ANTENNA MOUNT TYPE
1	CCG	36.0m	RADAR	21' HG-HP-F-38	TERMA	INITIAL	OMNI	EWPF85	PLATFORM
2	CCG	34.0m	VHF Ch16	872F-70HDB	COMPROD	INITIAL	60.0	LDF4 x1	LEG MOUNT
3	CCG	25.0m	VHF Rx	872F-70HDB	COMPROD	INITIAL	60.0	LDF4 x1	LEG MOUNT
4	CCG	16.0m	VHF Tx	872F-70HDB	COMPROD	INITIAL	60.0	LDF4 x1	LEG MOUNT
5	CCG	12.0m	MICROWAVE MAIN F. KLEMTU	USX8-6W	ANDREWS/COMMSCOPE	INITIAL	328.0	EWPF63	FACE MOUNT
6	CCG	10.0m	CAMERA 1	IN HOUSE	IN HOUSE	INITIAL		CAT6	LEG MOUNT
7	CCG	10.0m	CAMERA 2	IN HOUSE	IN HOUSE	INITIAL		CAT6	LEG MOUNT
8	CCG	10.0m	CAMERA 3	IN HOUSE	IN HOUSE	INITIAL		CAT6	LEG MOUNT
9	CCG	7.0m	VHF MULTI	872F-HDB	COMPROD	INITIAL	60.0	LDF4 x1	LEG MOUNT



ELEVATION A
SCALE: 1:100
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TOWER ANTENNA LAYOUT

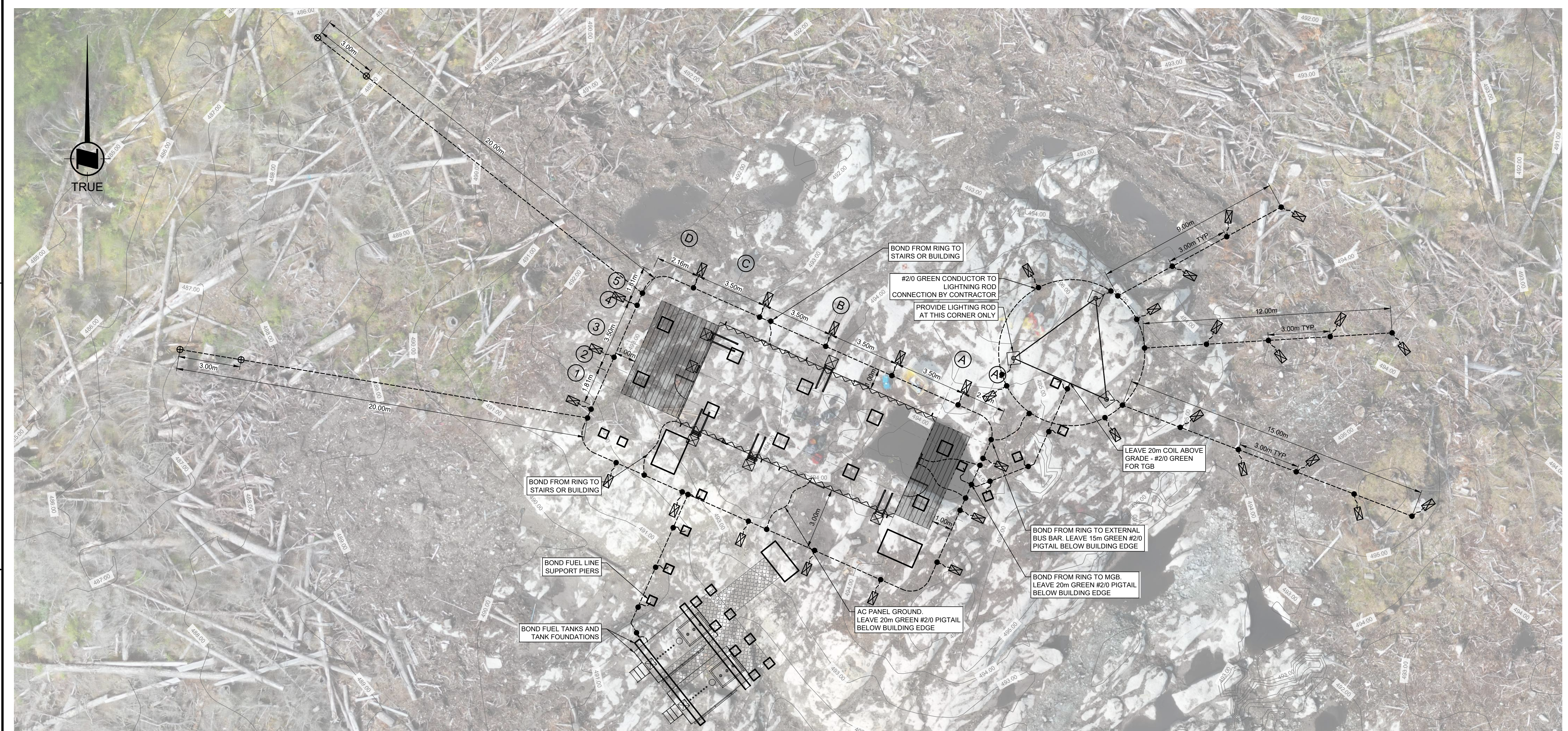
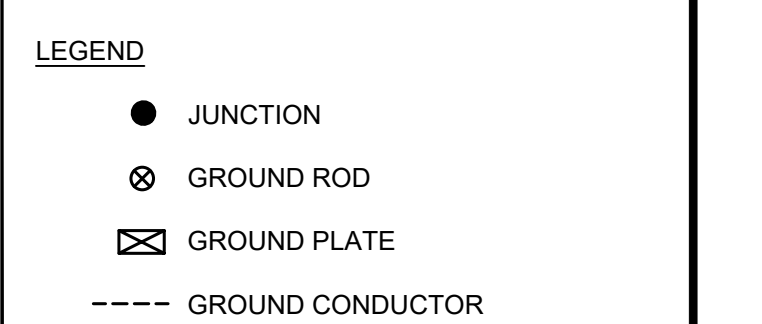
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MCTS TOWER SITE
DENNY ISLAND

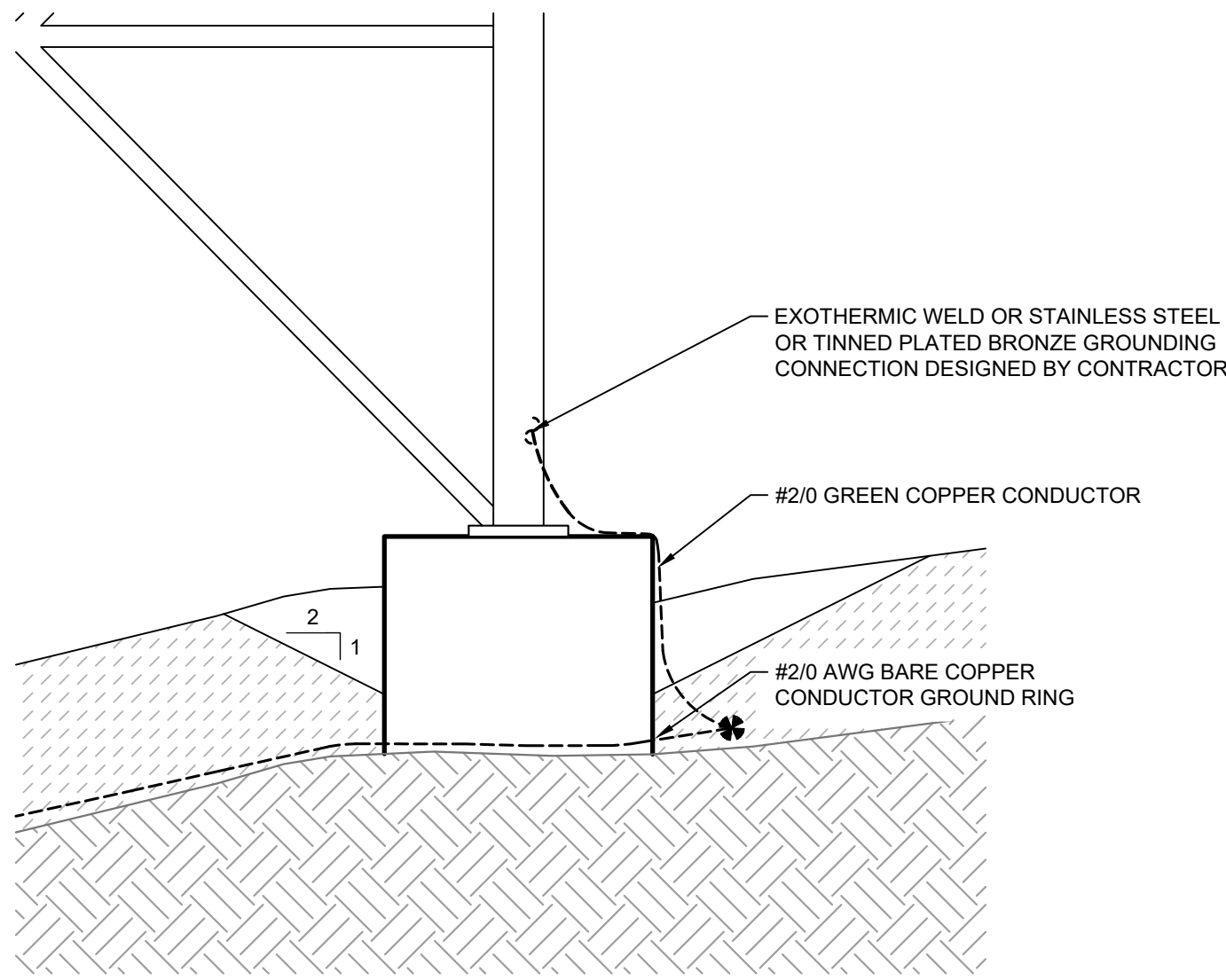
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ANTENNA LAYOUT

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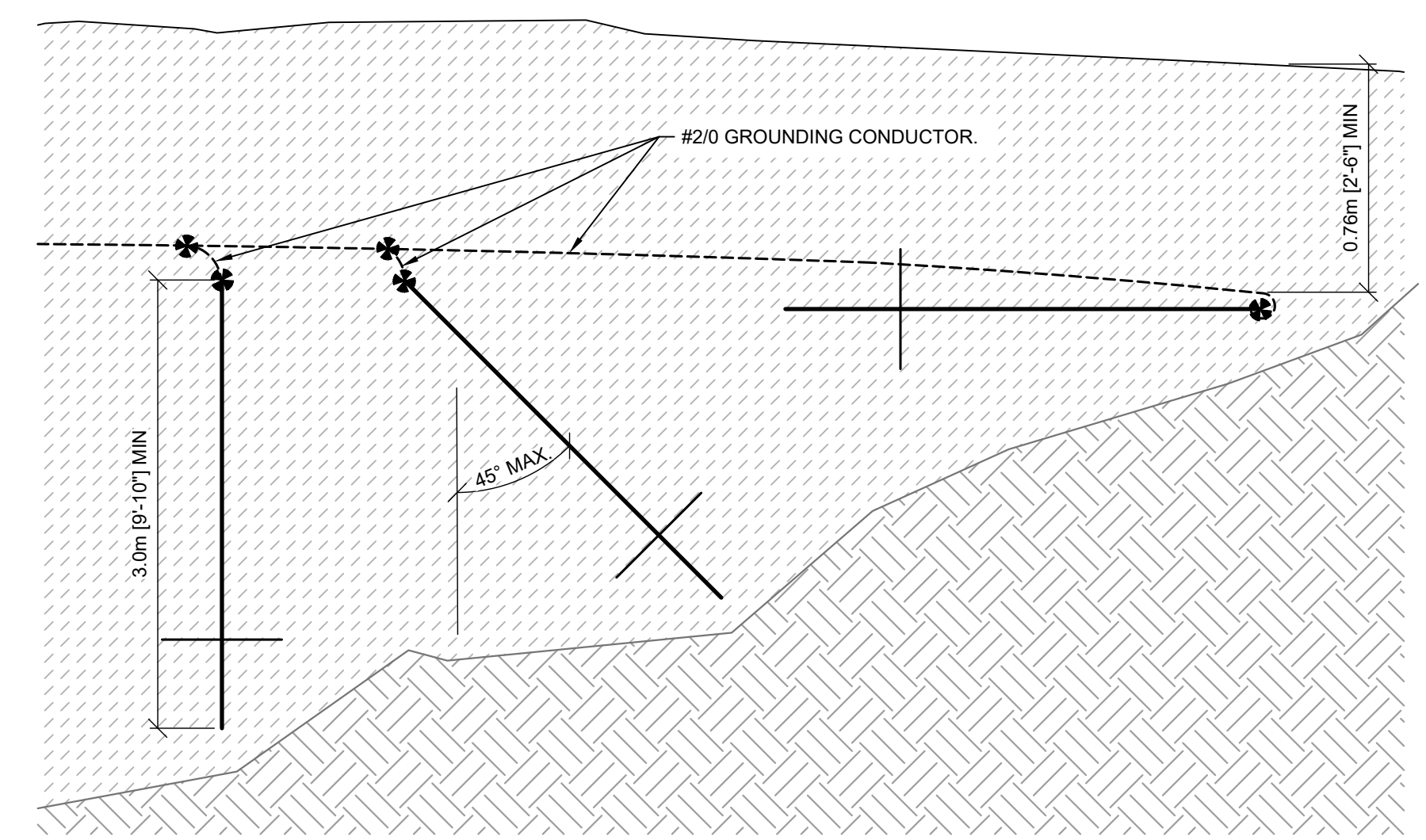
- Vendor Information / Sous-traitant
- ALL BURIED GROUNDING CONDUCTORS SHALL BE #2/0 AWC, BARE, STRANDED TINNED OR UN-TINNED.
 - ALL SPLICES SHALL BE MADE THROUGH IRREVERSIBLE COMPRESSION TYPE CONNECTORS, DESIGNED FOR USE WITH GROUNDING.
 - ABOVE-GROUND BONDING CONDUCTORS SHOULD BE JACKETED, WHENEVER PRACTICAL.
 - SHARP BENDS SHALL BE AVOIDED, WITH A MINIMUM RADIUS OF 203mm.
 - BUILDING SHALL BE BONDED TO THE GROUND RING IN AT LEAST TWO POINTS, WITH AS MUCH PHYSICAL SEPARATION AS PRACTICAL.
 - GROUND RINGS SHALL BE BURIED TO A DEPTH OF 762mm WHERE PRACTICAL. WHEN NOT PRACTICAL TO BURY BELOW 305mm, 38mm OF CONDUCTRE SHALL BE UTILIZED ON ALL SIDES OF THE GROUND COMPONENT. ANY VARIATIONS ARE TO BE DOCUMENTED AS PART OF RED-LINE MARKUPS.
 - WHEN ADJUSTING GROUND LOOP FROM DIFFERENT DEPTHS, MINIMUM BEND RADIUS OF NOTE 4 SHALL BE ADHERED TO.
 - GROUND RINGS SHALL BE A MINIMUM OF 610mm FROM FOUNDATIONS OF BUILDING AND TOWERS, OR GREATER WHERE SPECIFIED IN THE DRAWINGS.
 - GROUND RODS SHALL BE COPPER OR COPPER CLAD, 3m LENGTH AND 19.05mm DIAMETER.
 - GROUND RODS SHALL BE SPACED 3m TO 4.5m APART AROUND THE GROUND RING.
 - THE UPPER END OF THE GROUND ROD SHALL BE BURIED TO THE DEPTH OF THE GROUND RING TO ALLOW FOR EASY BONDING.
 - 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.
 - RODS ARE PREFERRED 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.
 - HORIZONTAL GROUND RODS ON RADIALS WILL BE INSTALLED PERPENDICULAR TO RADIAL.
 - RODS ARE NOT TO BE INSTALLED IN PRE DRILLED HOLES.
 - IF GROUND RODS ARE INSTALLED LESS THAN 305mm DEEP, THEY SHALL BE ENCASED IN 38mm OF CONDUCTRE ON ALL SIDES.
 - GROUND RODS CAN BE SUBSTITUTED WITH GROUND PLATES, WHERE SITUATIONS DO NOT ALLOW FOR INSTALLATION OF GROUND RODS.
 - COPPER GROUND PLATES SHALL BE 1.5mm THICK AND COPPER-CLAD STEEL SHALL BE 6.4mm MINIMUM.
 - GROUND PLATES SHALL HAVE 0.186m² MINIMUM SURFACE EXPOSED TO BACKFILL MATERIAL.
 - IF GROUND PLATES ARE INSTALLED LESS THAN 305mm DEEP, THEY SHALL BE ENCASED IN 76mm OF CONDUCTRE ON ALL SIDES.
 - ANY SURFACE INSTALLED GROUNDING EQUIPMENT SHALL HAVE CONDUCTRE SHAPED TO PREVENT TRIPPING HAZARDS.



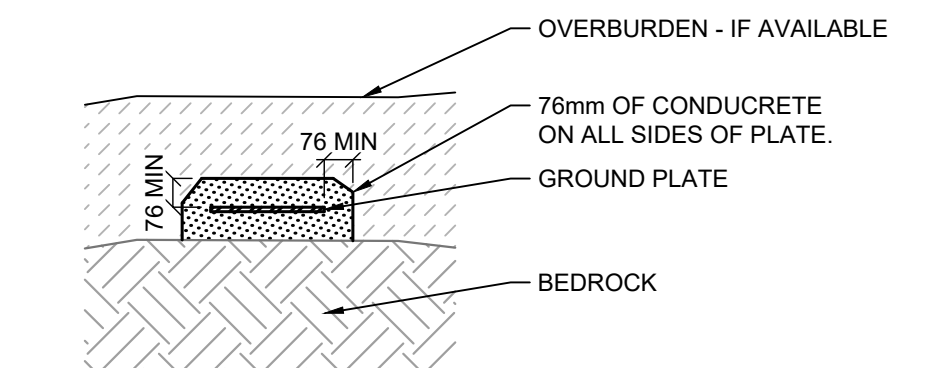
PLAN 1 GROUNDING PLAN
SCALE: 1:100



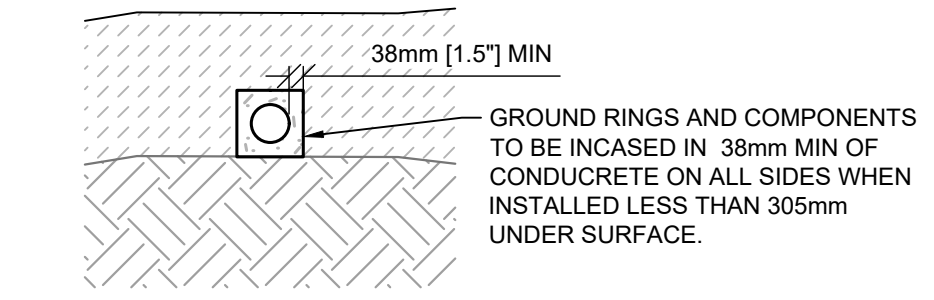
DETAIL 2 TRANSITION TO ABOVE GRADE
SCALE: 1:20



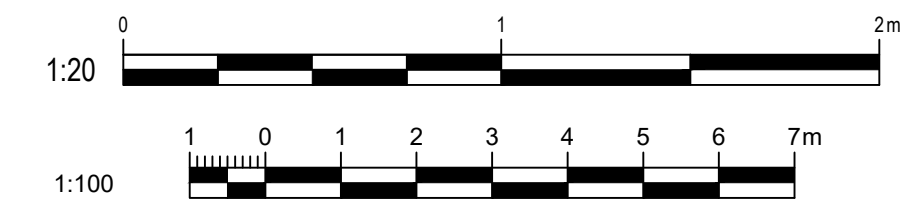
DETAIL 3 ANGLED GROUND ROD INSTALLATION
SCALE: 1:20



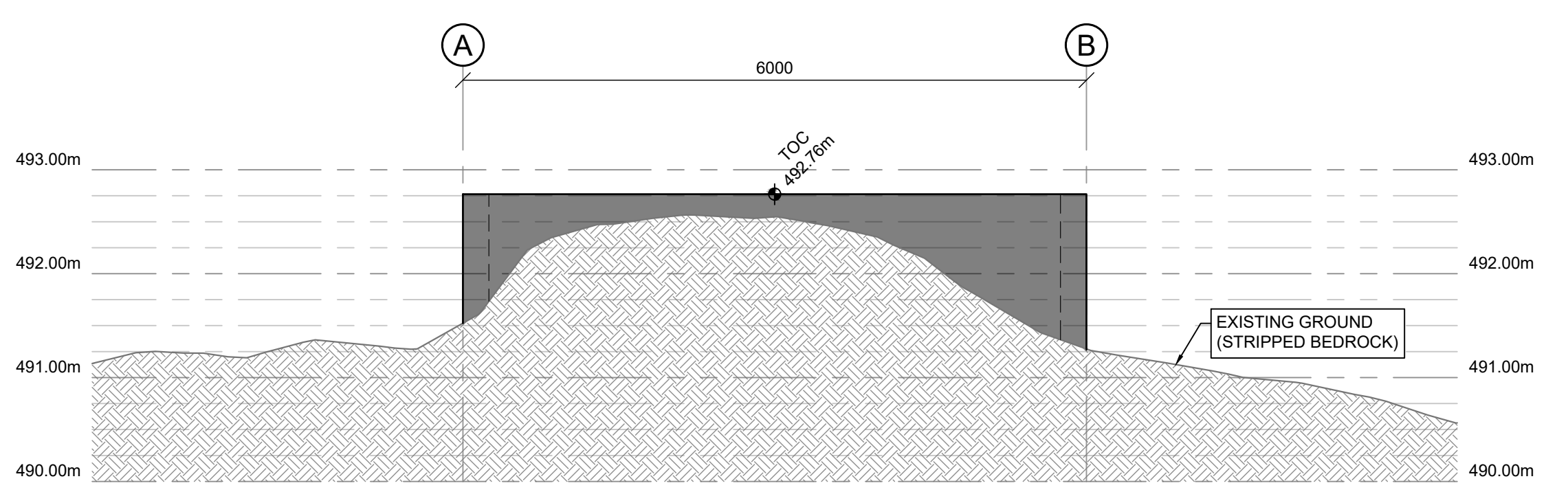
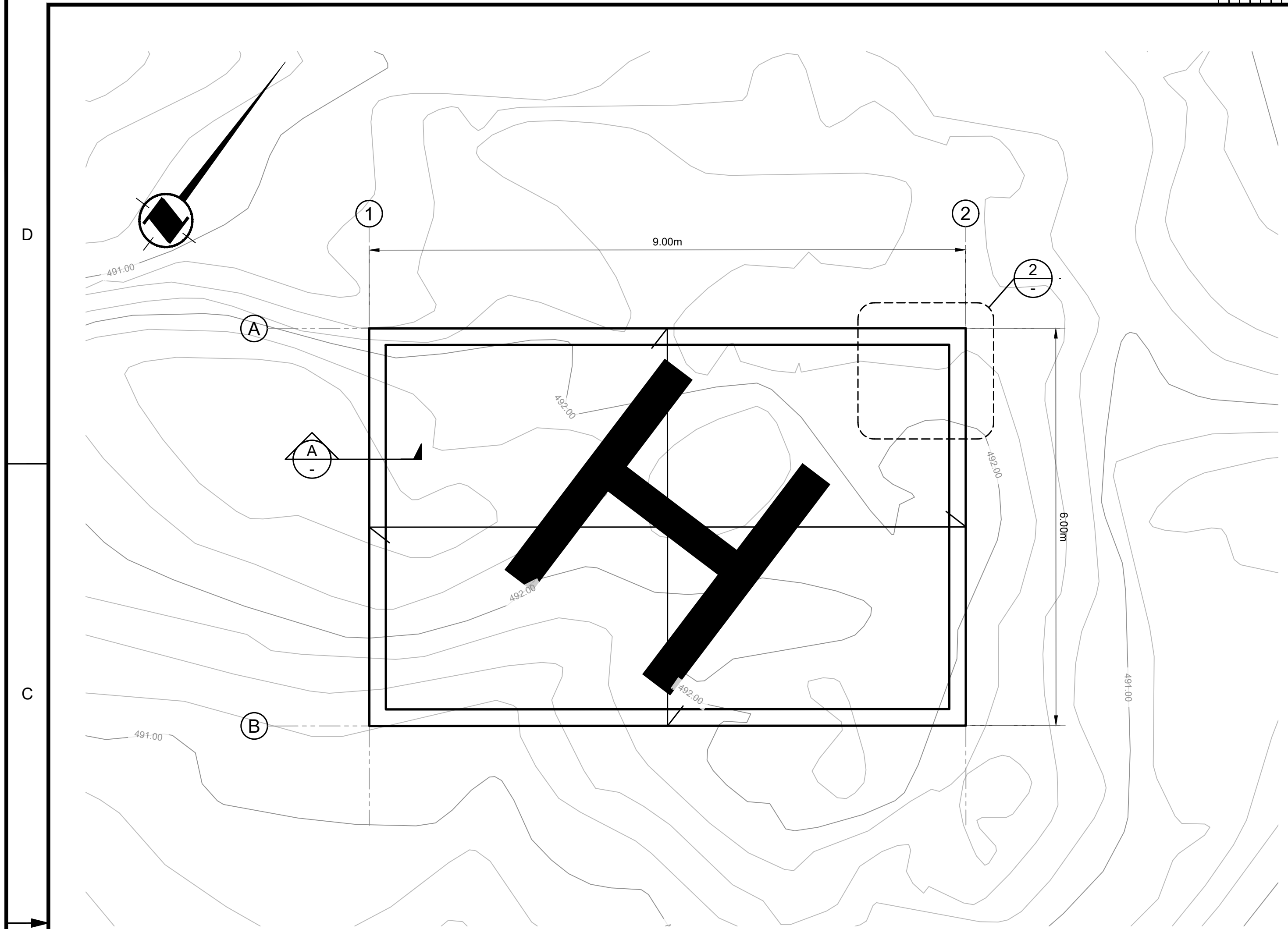
DETAIL 4 GROUND PLATE DETAIL
SCALE: 1:20



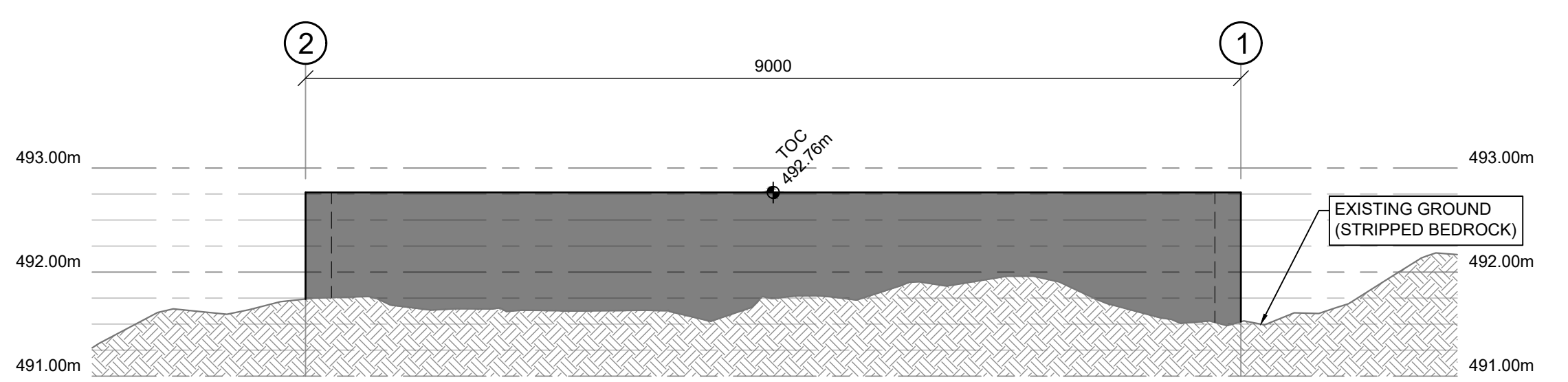
DETAIL 5 TRENCH WITH GEM DETAIL
SCALE: 1:20



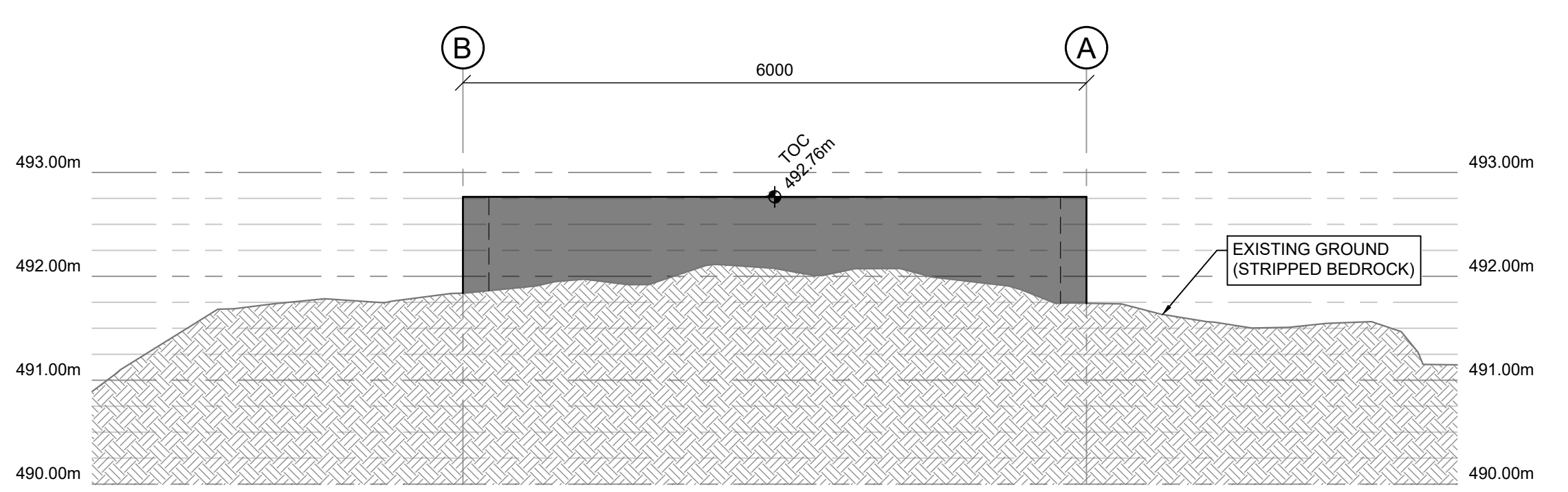
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MCTS TOWER SITE DENNY ISLAND			
Drawing - Dessin			
GROUNDING PLAN			
Drawn - dessiné		date	
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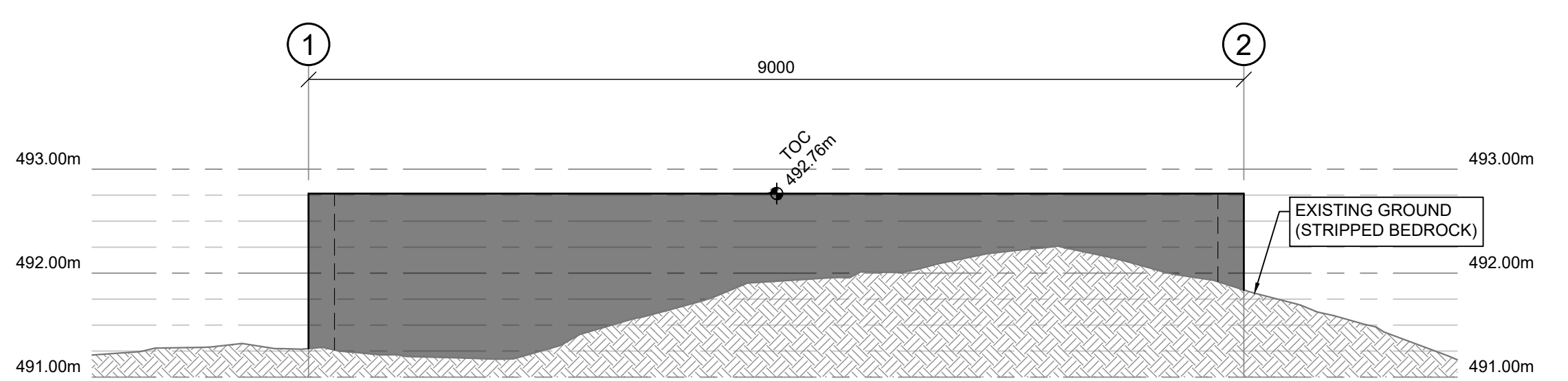
ELEVATION B - GROUND PROFILE AT GRIDLINE 1
SCALE: 1:50



ELEVATION C - GROUND PROFILE AT GRIDLINE A
SCALE: 1:50

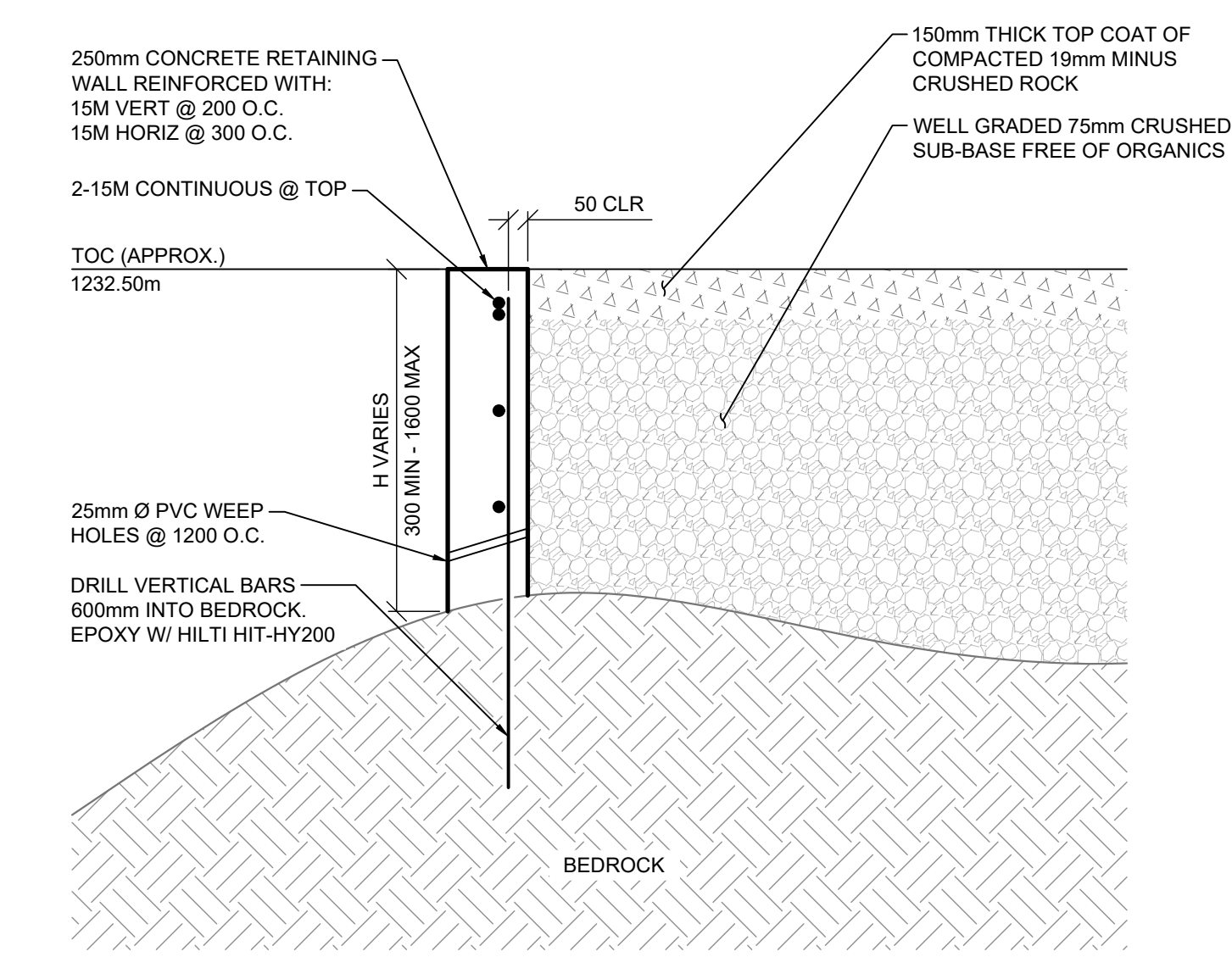


ELEVATION D - GROUND PROFILE AT GRIDLINE 2
SCALE: 1:50

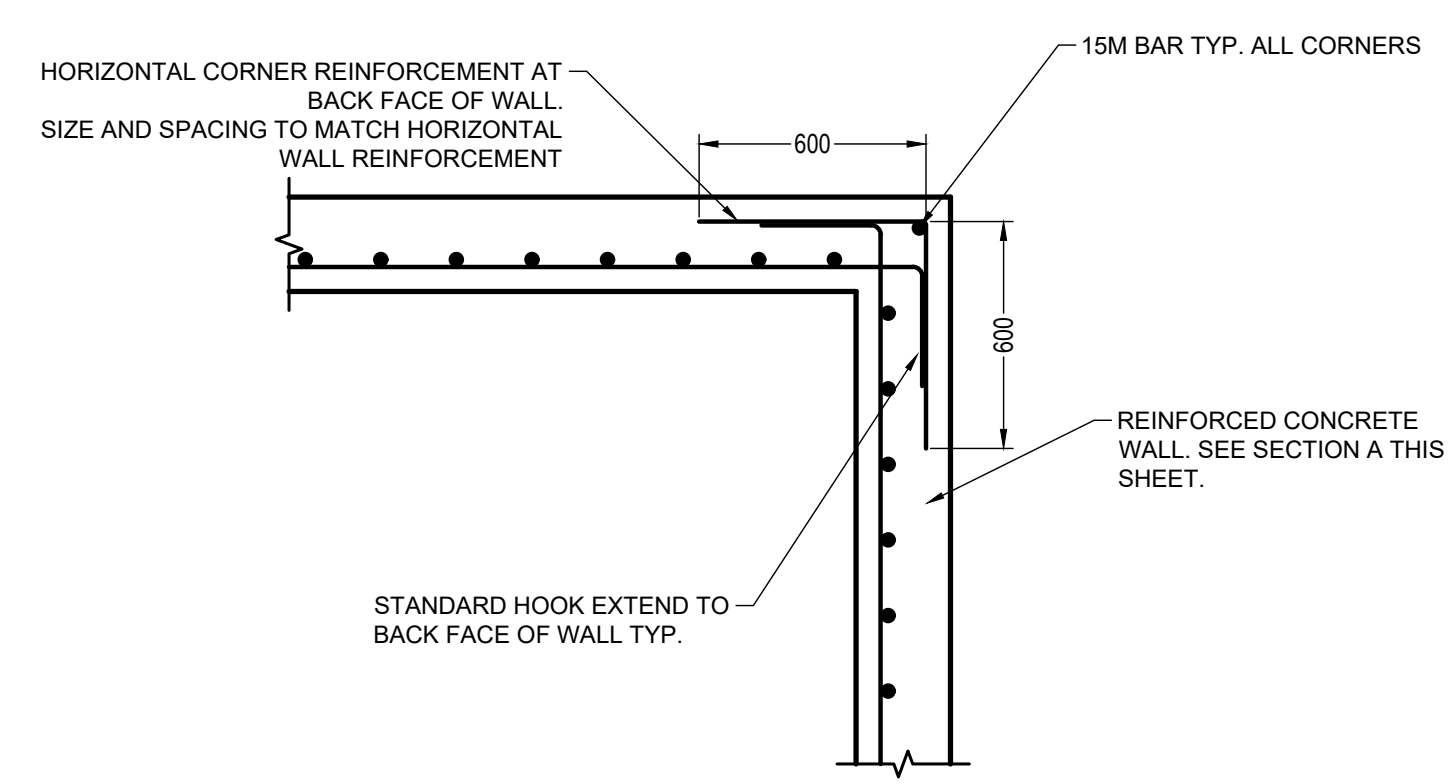


ELEVATION E - GROUND PROFILE AT GRIDLINE B
SCALE: 1:50

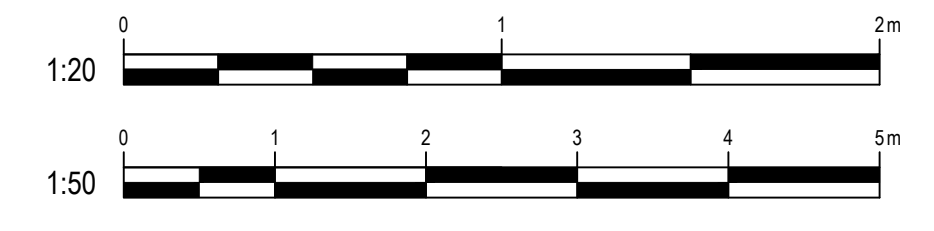
PLAN 1 HELIPAD FOUNDATION
SCALE: 1:50



SECTION A HELIPAD WALL
SCALE: 1:20



DETAIL 2 HELIPAD CORNER
SCALE: 1:20



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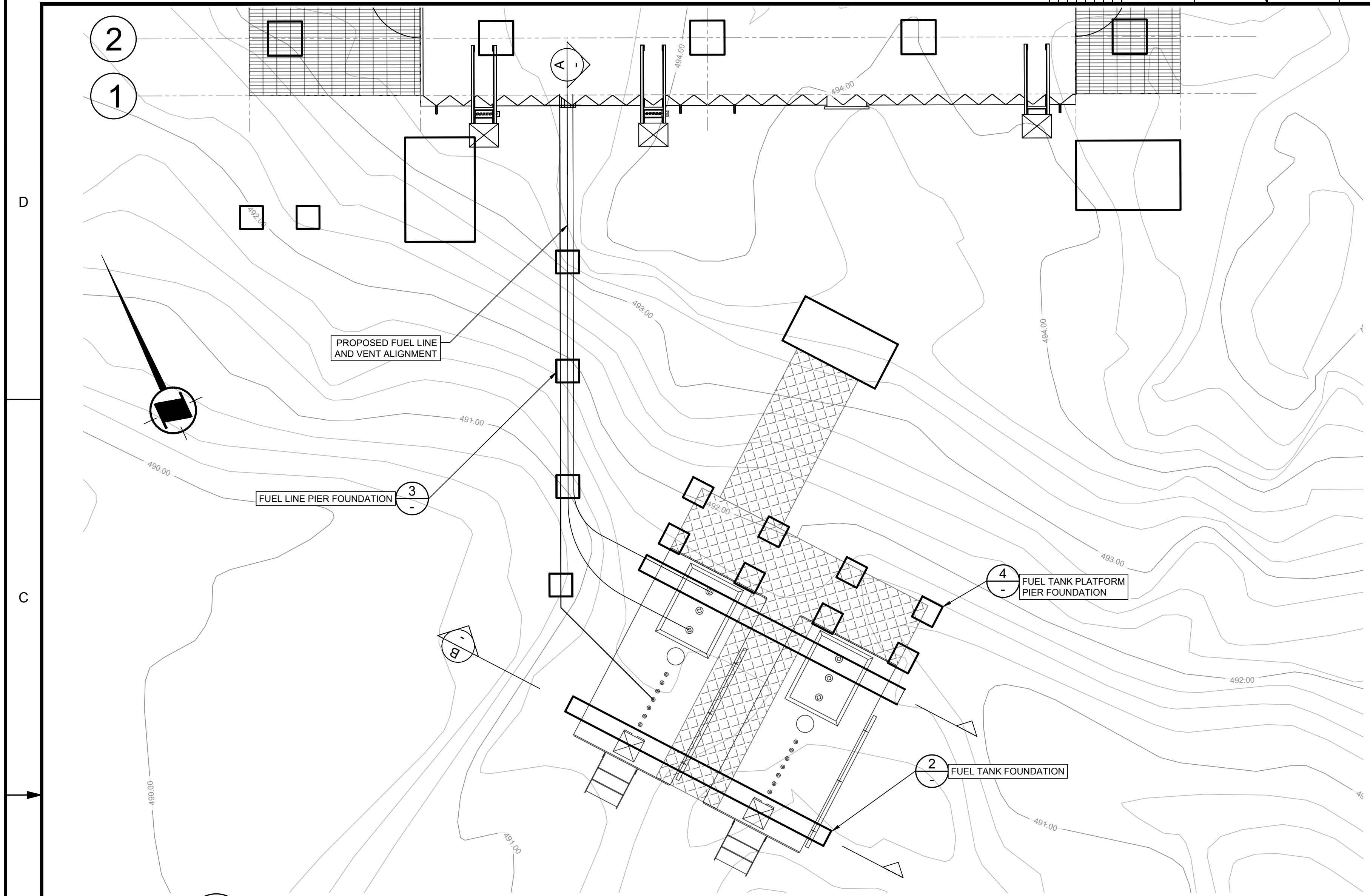
MCTS TOWER SITE
DENNY ISLAND

Drawing - Dessin

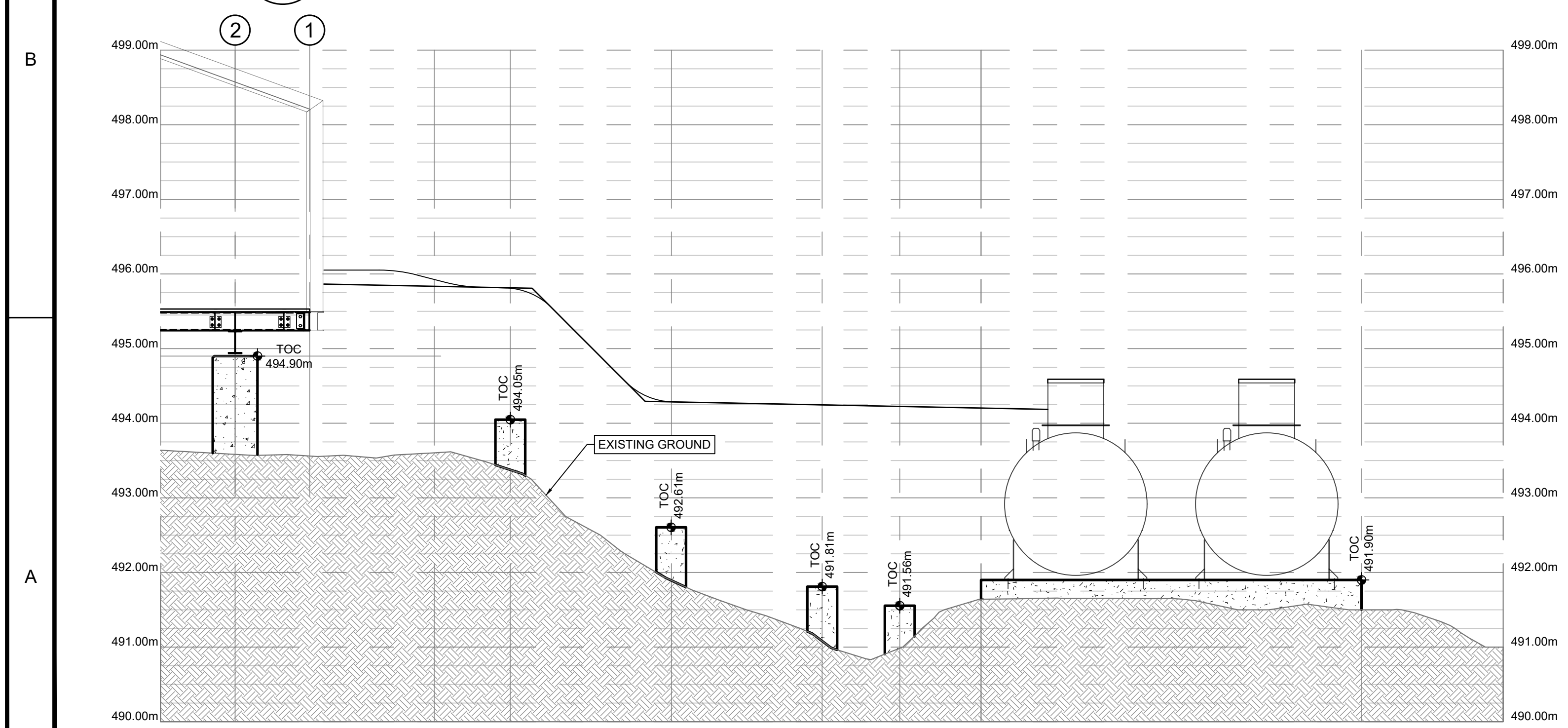
HELIPAD DETAILS

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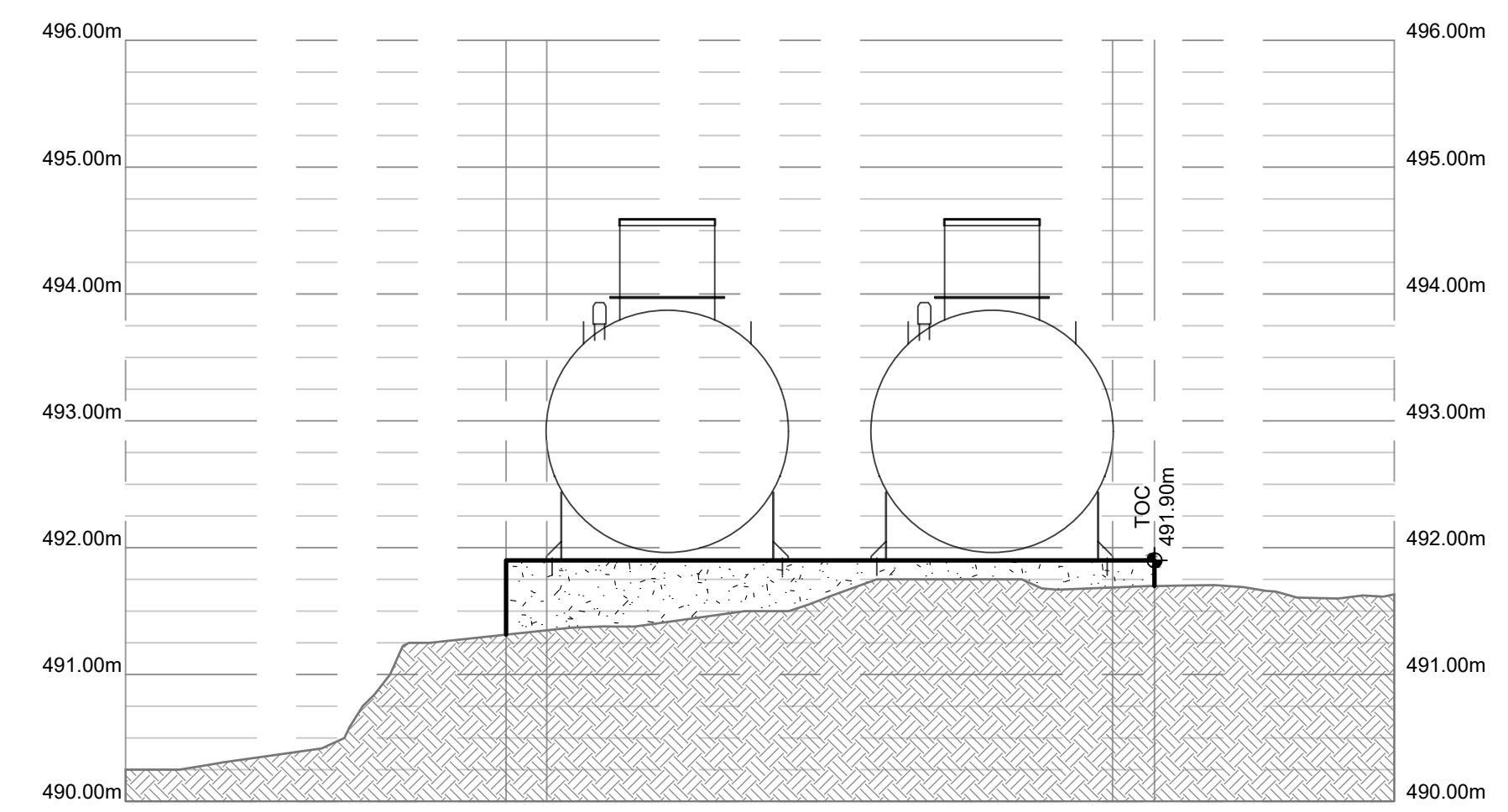
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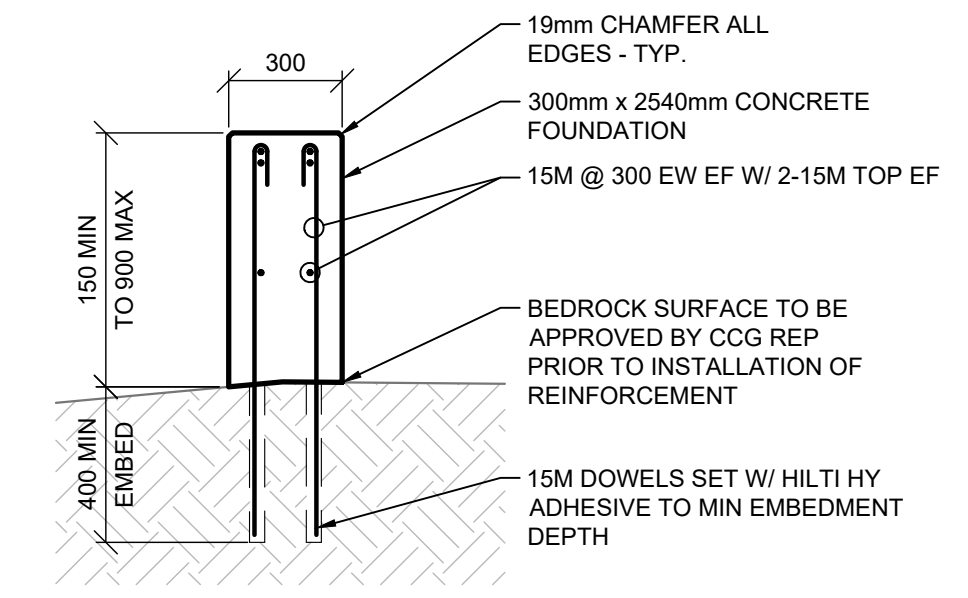
PLAN 1 FUEL TANK LAYOUT
SCALE: 1:50



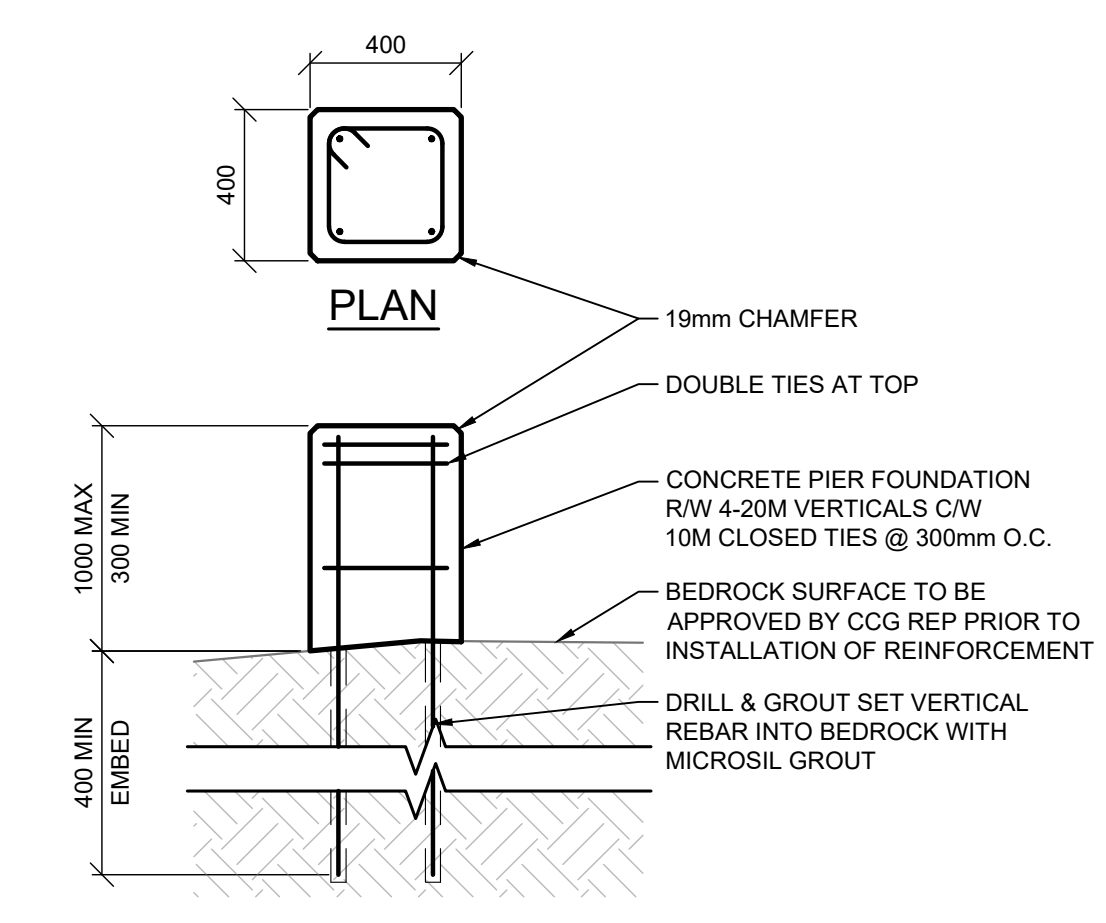
ELEVATION A FUEL ALIGNMENT AND EAST FUEL TANK FOUNDATION
SCALE: 1:100



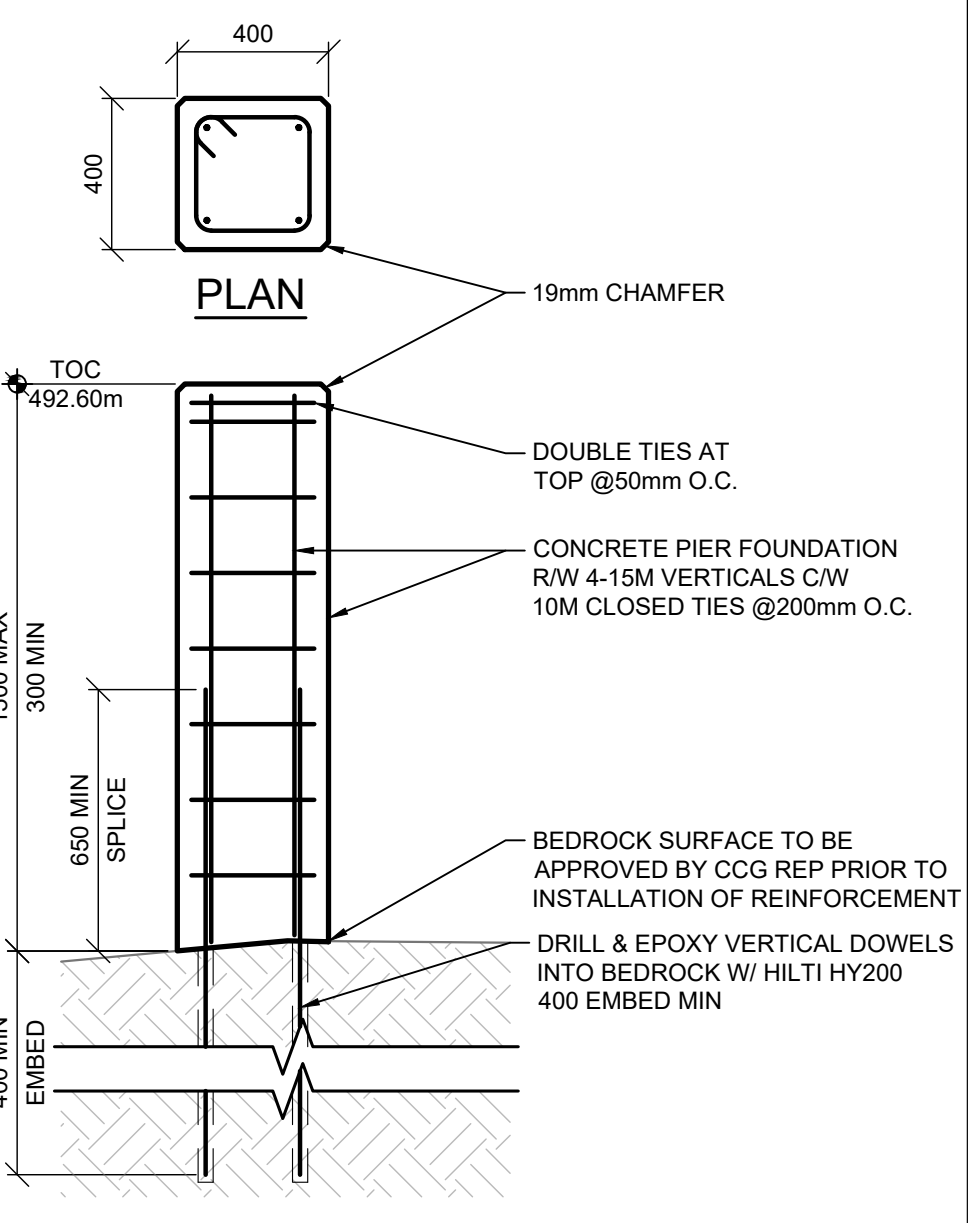
ELEVATION B FUEL ALIGNMENT AND EAST FUEL TANK FOUNDATION
SCALE: 1:100



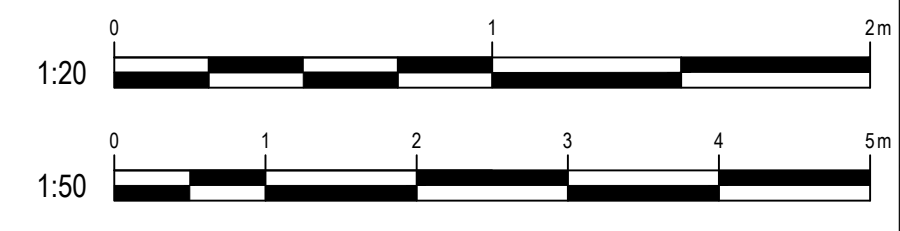
DETAIL 2 FUEL TANK FOUNDATION
SCALE: 1:20



DETAIL 3 FUEL LINE PIER FOUNDATION
SCALE: 1:20



DETAIL 4 FUEL TANK PLATFORM PIER FOUNDATION
SCALE: 1:20



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Asset - Actif

**MCTS TOWER SITE
DENNY ISLAND**

Drawing - Dessin

FUEL TANK DETAILS

Drawn - dessiné	date
GR	2021-09-03
Designed - conception	date
JS	2021-09-03
Checked - vérifié	date
BT	2021-09-03
Approved - approuvé	date
BT	2021-09-03

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scale - échelle: AS SHOWN

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