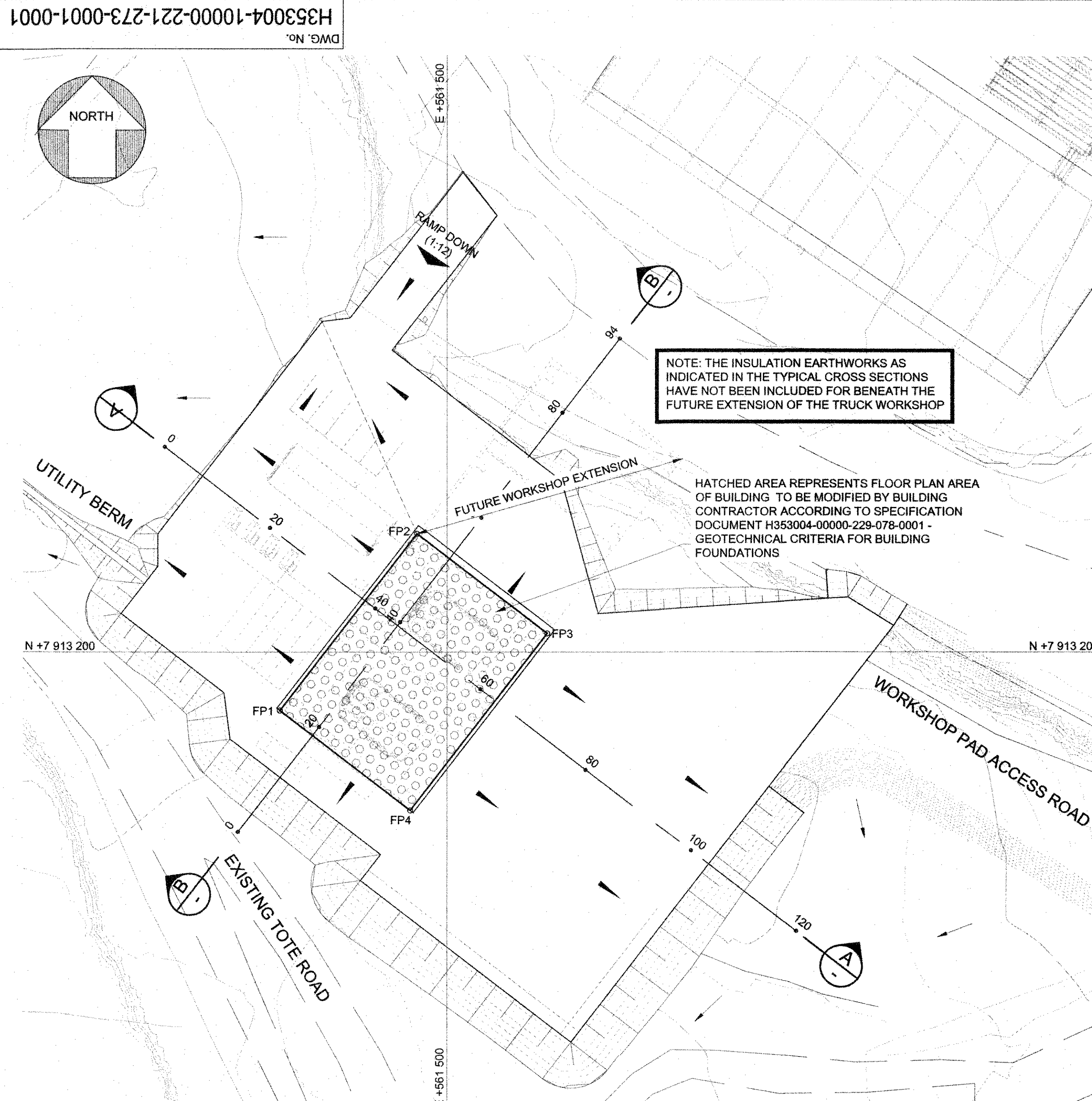
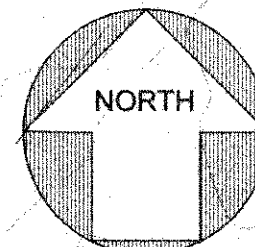


Attachment 14.4

Mine Site Truck Workshop Drawings

(2 Pages)



PLAN ON WORKSHOP PAD
SCALE 1:500

NOTE: THE INSULATION EARTHWORKS AS INDICATED IN THE TYPICAL CROSS SECTIONS HAVE NOT BEEN INCLUDED FOR BENEATH THE FUTURE EXTENSION OF THE TRUCK WORKSHOP

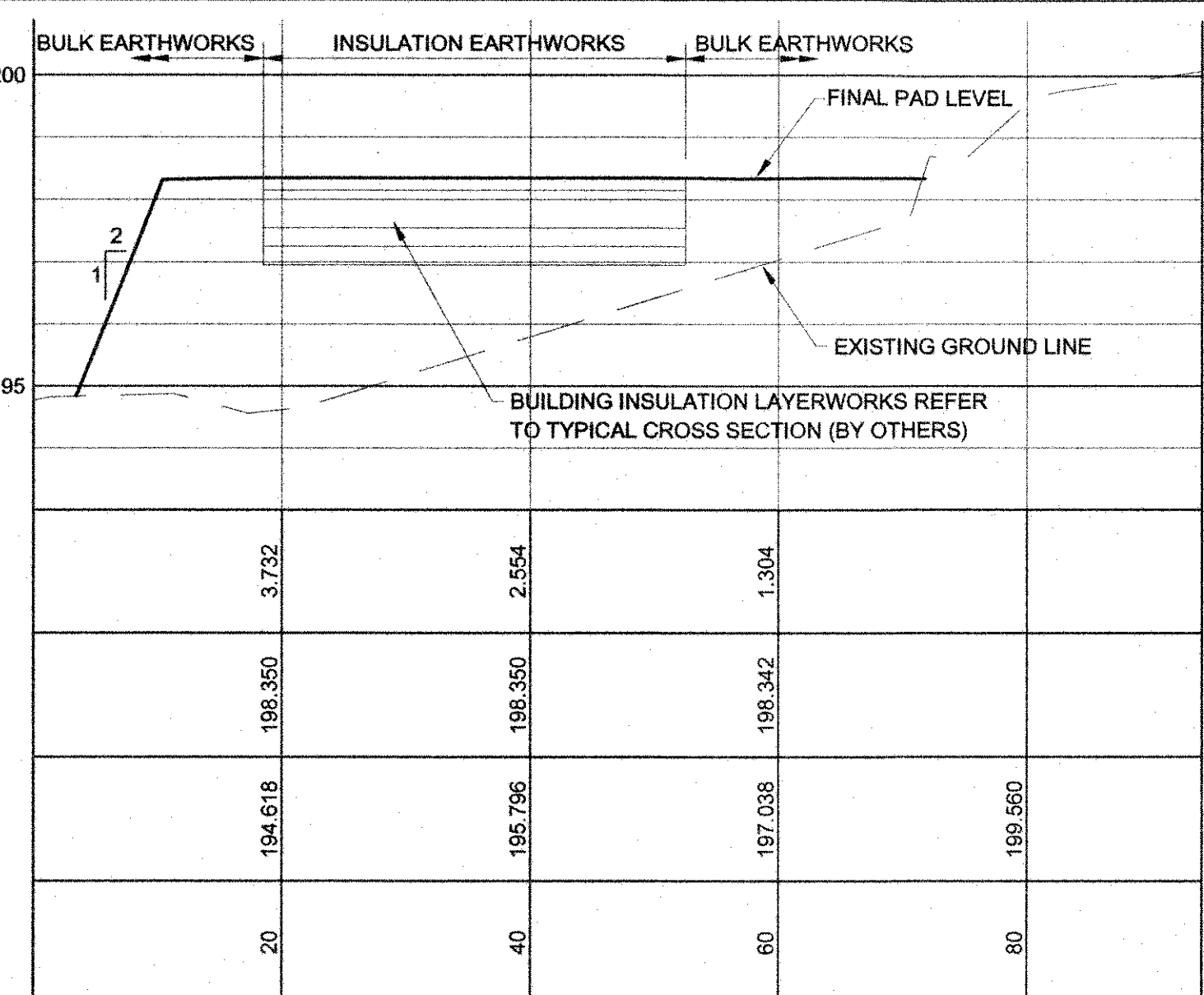
SCALES:
HORIZONTAL 1:500
VERTICAL 1:100

CUT / FILL
CENTRE LINE (CL)
GROUND LEVELS ON CL
DISTANCE (m)

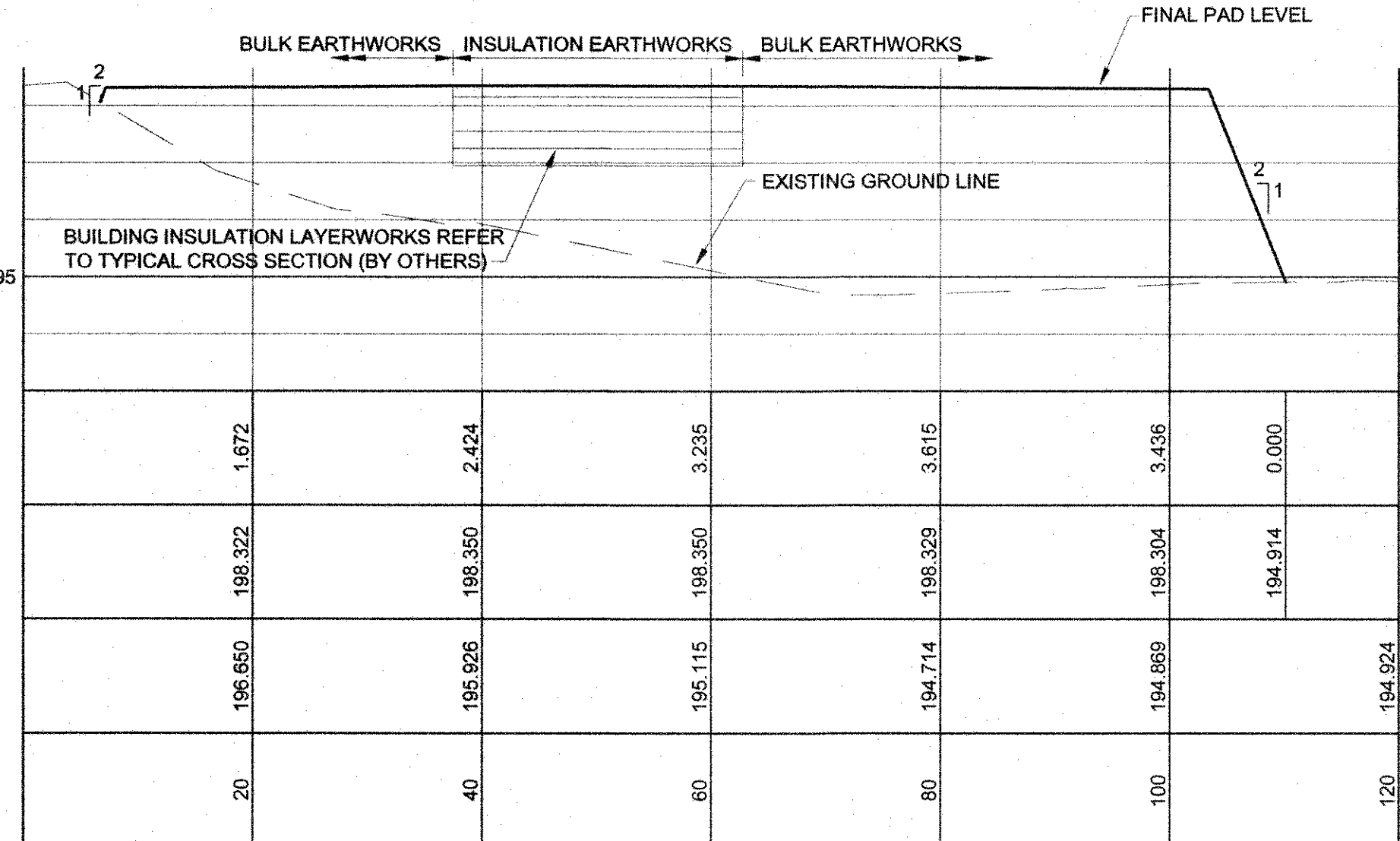
NOTE: THE INSULATION EARTHWORKS AS INDICATED IN THE TYPICAL CROSS SECTIONS HAVE NOT BEEN INCLUDED FOR BENEATH THE FUTURE EXTENSION OF THE TRUCK WORKSHOP

SCALES:
HORIZONTAL 1:500
VERTICAL 1:100

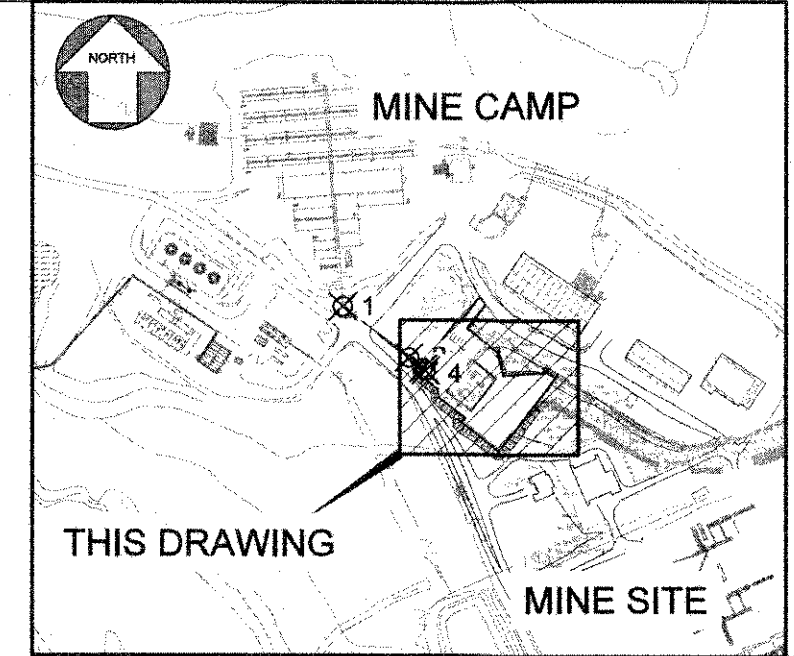
CUT / FILL
CENTRE LINE (CL)
GROUND LEVELS ON CL
DISTANCE (m)



SECTION B - B



SECTION A - A



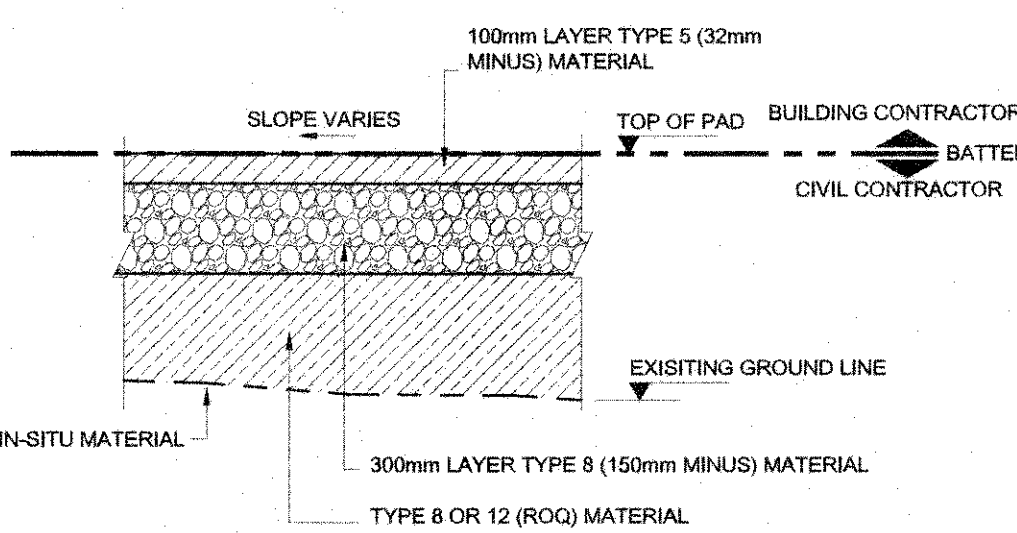
KEY PLAN

- NOTES:
- LIDAR SURVEY PROVIDED BY PHOTSAT (2016)
 - CO-ORDINATE GRID IS SHOWN IN UTM (NAD83) ZONE 17 AND IS IN METERS.
 - CONTOURS ARE IN METERS. CONTOUR INTERVAL IS 0.5m.
 - ALL DIMENSIONS SHOWN ARE IN METERS, UNLESS OTHERWISE SPECIFIED.

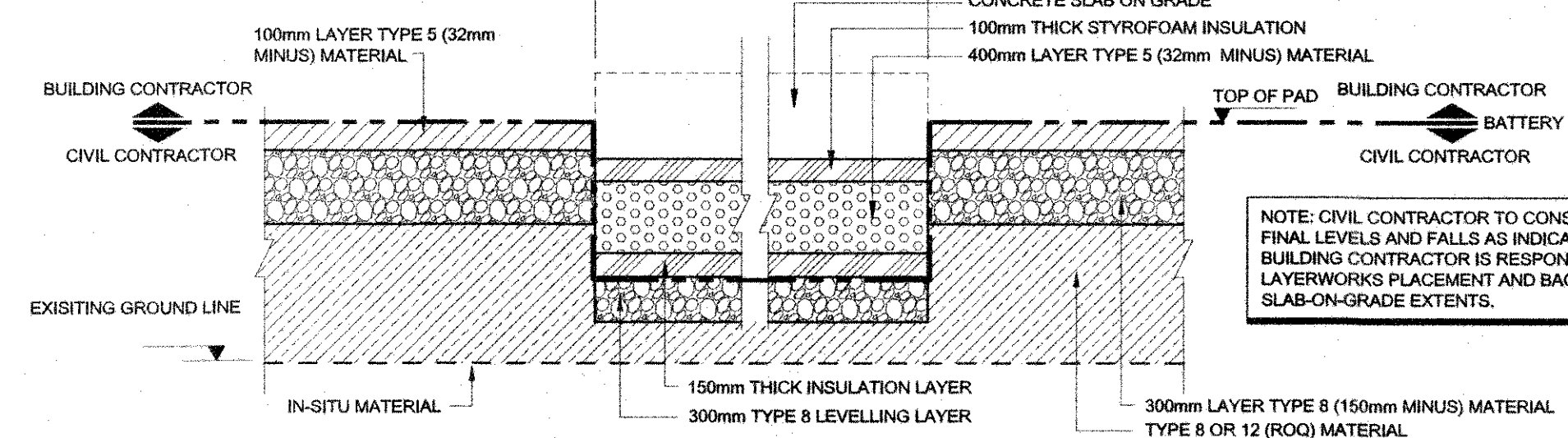
BUILDING FLOOR PLAN SETTING OUT CO-ORDINATES			
POINT	E	N	LEVEL
FP1	561 474.851	7 913 191.192	198.350
FP2	561 495.477	7 913 217.946	198.350
FP3	561 515.087	7 913 202.830	198.350
FP4	561 494.462	7 913 176.075	198.350

LEGEND:

- 198 CONTOUR
- ON PAD FLOW DIRECTION
- OFF PAD FLOW DIRECTION



TYPICAL BULK EARTHWORKS CROSS SECTION
SCALE 1:20



TYPICAL INSULATION CROSS SECTION BENEATH BUILDING SLAB-ON-GRADE
NOT TO SCALE

NOTE: PAD LAYERWORKS BENEATH BUILDING TO BE MODIFIED LOCALLY TO ACCOMMODATE THE DRAINAGE SUMPS IN THE BUILDING.

NOTE: CIVIL CONTRACTOR TO CONSTRUCT PAD EARTHWORKS TO FINAL LEVELS AND FALLS AS INDICATED ON THE DRAWING. THE BUILDING CONTRACTOR IS RESPONSIBLE FOR THE EXCAVATION, LAYERWORKS PLACEMENT AND BACKFILL OF ALL WORK BENEATH SLAB-ON-GRADE EXTENTS.

MATERIAL AND COMPACTION SPECIFICATION:

- TYPE 5 (CRUSHER RUN) OR TYPE 3 (CRUSHER RUN):
THE MATERIAL MUST BE PLACED IN LIFTS NOT EXCEEDING 200mm AND SHALL BE COMPACTED BY MINIMUM 5 PASSES OF A MINIMUM 15 TON VIBRATORY ROLLER WITH VIBRATIONS IN THE RANGE OF 1200 TO 1500 vpm AND THE ROLLER SPEED OF ABOUT 2mph (3.2km/h). ALTERNATIVELY, THE COMPACTION SHOULD ACHIEVE A MINIMUM OF 100 PERCENT OF MAXIMUM DRY DENSITY AS DETERMINED BY TEST METHOD ASTM D698.
- TYPE 8 (CRUSHER RUN):
THE ROCKFILL MUST BE PLACED IN LIFTS NOT EXCEEDING 500mm. THE PLACEMENT SHALL AVOID SEGREGATION AND NESTING OF COARSE PARTICLES. IT SHALL BE COMPACTED BY MINIMUM 5 PASSES OF A MINIMUM 15 TON VIBRATORY ROLLER WITH VIBRATIONS IN THE RANGE OF 1200 TO 1500 vpm AND THE ROLLER SPEED OF ABOUT 2mph (3.2km/h). EACH LIFT MUST BE "PROOF-ROLLED" PRIOR TO PLACING THE SUBSEQUENT LIFT.
- TYPE 12 (RUN OF QUARRY):
THE ROCKFILL, IF USED, MUST BE PLACED IN LIFTS NOT EXCEEDING 1000mm. THE ROCKFILL SHALL BE COMPACTED BY MINIMUM 5 PASSES OF A MINIMUM 15 TON VIBRATORY ROLLER WITH VIBRATIONS IN THE RANGE OF 1200 TO 1500 vpm AND THE ROLLER SPEED OF ABOUT 2mph (3.2km/h). ALTERNATIVE COMPACTORS SUCH AS HEAVY LOADED RUBBER TIERED HAUL TRUCKS CAN ONLY BE USED AS PER A WRITTEN APPROVAL FROM THE ENGINEER.

FOR CONSTRUCTION

THIS DRAWING WAS PREPARED BY HATCH LTD. (HATCH) FOR THE EXCLUSIVE USE OF BAFFINLAND IRON MINES LP (CLIENT) AND ITS USE IS SUBJECT TO THE TERMS AND CONDITIONS OF THE CONTRACT BETWEEN HATCH AND THE CLIENT. INCLUDING ANY LIMITATIONS ON LIABILITY CONTAINED THEREIN. THIS DRAWING AND ITS CONTENTS REMAIN THE INTELLECTUAL PROPERTY OF HATCH SUBJECT TO CLIENT'S ROYALTY-FREE, IRREVOCABLE, PERPETUAL AND NON-EXCLUSIVE LICENSE TO USE AND REPRODUCE THE DRAWING FOR PURPOSES CONNECTED WITH THE PROJECT, INCLUDING THE CONSTRUCTION, COMPLETION, MAINTENANCE, EXTENSION, REINSTATEMENT AND REPAIR OF THE PROJECT. THIS DRAWING, AND THE INFORMATION CONTAINED HEREIN, SHALL BE TREATED AS CONFIDENTIAL FOR ALL OTHER PURPOSES AND SHALL NOT BE MODIFIED WITHOUT THE WRITTEN CONSENT OF HATCH.

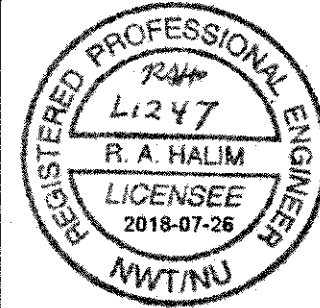
HATCH

Baffinland

BAFFINLAND IRON MINES LP
MARY RIVER PROJECT

MINE SITE
MINE TRUCK WORKSHOP PAD
EARTHWORKS CROSS SECTIONS

DRAWING No.	DRAWING TITLE
735-1801470100-DWG-S0003	CONCRETE FOUNDATION ELEVATIONS, SECTIONS AND DETAILS (VENDOR DRAWING)
735-1801470100-DWG-S0001	CONCRETE FOUNDATION PLAN AND NOTES (VENDOR DRAWING)
H353004-00000-229-078-0001	GEOTECHNICAL CRITERIA FOR BUILDING FOUNDATIONS
H353004-10000-221-271-0002-0001	UTILITY BERM TO TRUCK WORKSHOP - PLAN AND PROFILE
H353004-10000-223-271-0009-0001	MINE TRUCK WORKSHOP ACCESS ROAD - PLAN AND PROFILE
H353004-00000-221-294-0008-0001	STANDARD DRAWING - TYPICAL PAD, DITCH AND BERM SECTIONS
H353004-10000-221-272-0005-0001	MINE TRUCK WORKSHOP PAD - LAYOUT PLAN
H353004-00000-220-272-0005-0001	MINE SITE - BLOCK PLAN



No.	DESCRIPTION
2	PAD NORTH WESTERN EDGE MOVED OUT BY 3.0m
1	APPROVED FOR CONSTRUCTION

BY	CHK'D	DATE
IHB	FH	20/07/2018
IHB	FH	04/07/2018

ROLE	NAME	SIGNATURE	DATE
DRAFTSPERSON	I BARNARD	NR	04/07/2018
DESIGNER	I BARNARD	NR	04/07/2018
CHECKER	F HUGO		2018-07-26
DESIGN COORD.	R GOOSEN		2018-07-26
RESP. ENG.	R HALIM		2018-07-26
LEAD DISC.	A GROBBELAAR		2018-07-26
AREA LEAD	T ATIBA		2018-07-31
ENG. MANAGER	D STANGER		2018-07-31
AREA MANAGER	T ATIBA		2018-07-31

SCALE	DWG. No.	REV
1:500 OR AS NOTED	H353004-10000-221-273-0001-0001	2

SHEET SIZE: D