

April 8, 2025

To whom it may concern:

RE: Modification Notice – KBL Inuvik Soil Treatment Facility, Licence No. G22L1-005

On November 18, 2022, the Gwich'in Land and Water Board (GLWB) issued Water Licence G22L1-005 to KBL Environmental Ltd (KBL) to operate a Soil Treatment Facility (Facility) in Inuvik. This Licence was a renewal of the original Water Licence, G17L1-002. As part of the [original Approval](#), the Board approved the design and construction of the Facility. Engineering drawings for the current Facility footprint and the Facility footprint approved as part of the original Application are attached. As per Part E, Condition 8 of the Licence, this letter is being distributed to notify stakeholders that the Facility will be modified to align with the original Application. The details of the modification are as follows:

Project Superintendent: Name: Mike Gamache
Cell: 403-370-2800
Email: mgamache@kbl.ca

Project Start Date: June 9, 2025

Est. Completion Date: June 23, 2025

Construction Activities:

- Notifying the Board and the Inspector ten days prior to commencement of the modification
- Surveying
- Relocating a temporary building and wrecked vehicles out of the expansion area
- Grading and prepping the expansion area
- Installing liner and geofabric
- Constructing protective soil layer in the soil treatment cell
- Installing culverts

Contractors:

- TetraTech – Geotechnical
- Northwind – Construction subcontractor
- Western Tank and Liner – Liner installation
- Mackenzie Delta Geomatics – Surveyor

Within 90 days of completion of the modification to the Inuvik Soil Treatment Facility, KBL will supply the GLWB with final as-built drawings stamped and signed by a Professional Engineer.

Should there be any questions, please contact me at mgamache@kbl.ca or 403-370-2800.

Sincerely,



Mike Gamache P.Ag.
Project Manager
KBL Environmental Ltd.

Original Facility Map and Drawings



INUVIK
SOIL TREATMENT FACILITY
INUVIK, NORTHWEST TERRITORIES

MAY 2017
PROJECT NUMBER: 20173924-00
ISSUED FOR: APPROVAL

LIST OF DRAWINGS

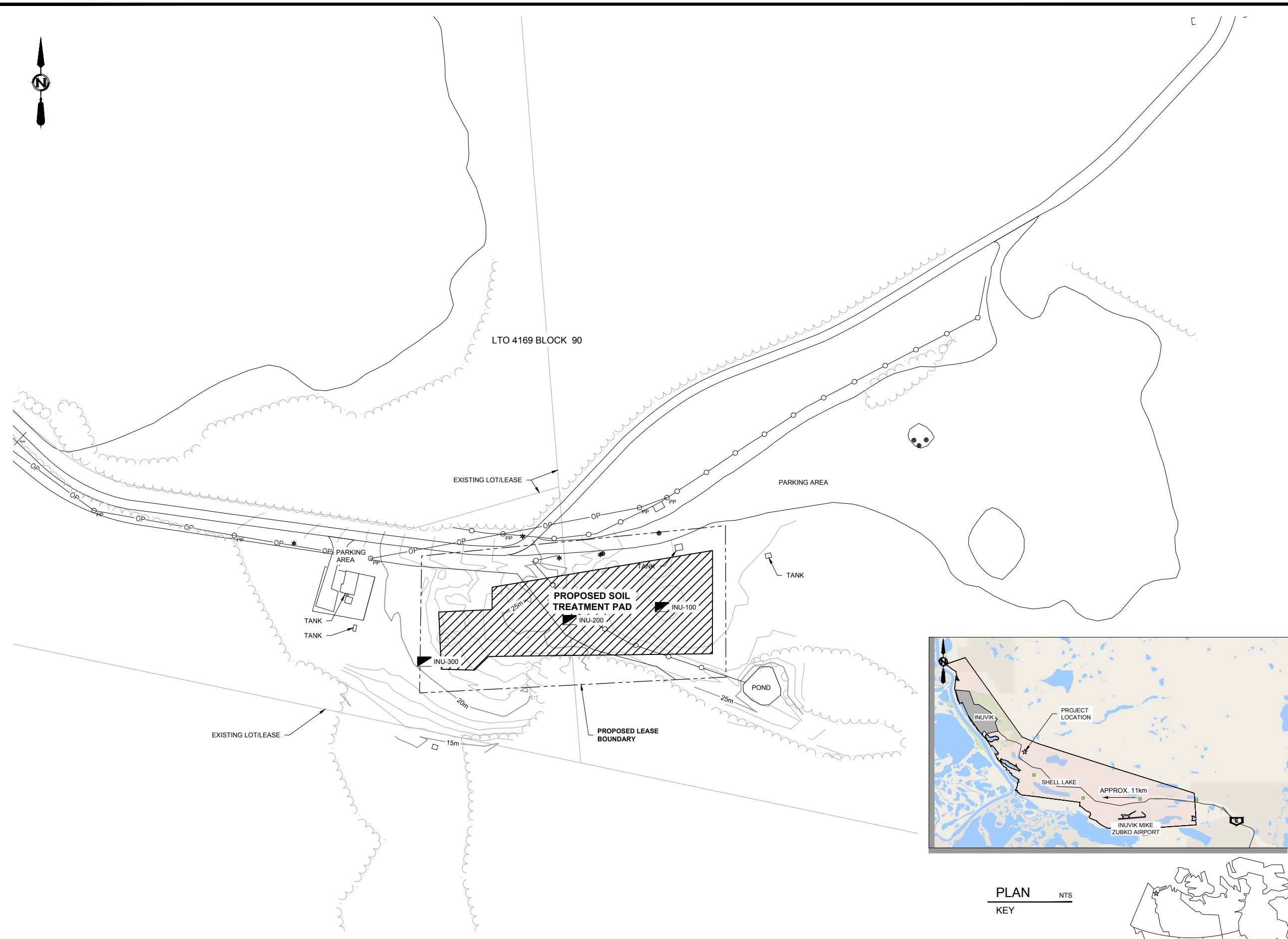
3924-00-000	COVER PAGE
<u>SOIL TREATMENT FACILITY</u>	
3924-00-101	OVERALL SITE PLAN / KEY PLAN
3924-00-102	ROAD LAYOUT PLAN
3924-00-103	DEVELOPMENT PLAN
3924-00-104	DEVELOPMENT SECTIONS
3924-00-105	DETAILS SHEET 1 OF 2
3924-00-106	DETAILS SHEET 2 OF 2

NLR/AE
CONSULTANTS

PERMIT TO PRACTICE
ASSOCIATED ENGINEERING (B.C.) LTD.
Signature: *[Signature]*
Date: 10 May 2017
PERMIT NUMBER: P 554
The Association of Professional Engineers,
Geologists and Geophysicists of NWT/NT

ASSOCIATED ENGINEERING
QUALITY MANAGEMENT SIGN-OFF
Signature: *[Signature]*
Date: May 10, 2017

Brett Smith
PROJECT MANAGER
2017-May-10
DATE



LEGEND

	28 m	TOPOGRAPHIC MAJOR CONTOUR (LOCAL SITE ELEVATIONS) CONTOUR INTERVAL = 5.0m
		TOPOGRAPHIC MINOR CONTOUR
		TREES
		EXISTING FENCE
	OP	EXISTING OVERHEAD POWER LINE
	PP	EXISTING POWER POLE
	*	EXISTING LIGHT
		EXISTING TANK
	INU-100	EXISTING TEST PIT LOCATION
		PROPOSED WORK AREA

NOT TO CONSTRUCT ON

- NOTES:**
- DATUM: UTM NAD83 ZONE 8.
 - CONTOURS PROVIDED BY KBL.
 - BOLD LINES & TEXT REFERS TO NEW CONSTRUCTION.

No.	DATE	REVISION	BY	APP.
D	2017MAY10	ISSUED FOR APPROVAL	NAR	BJ
C	2017MAY04	ISSUED FOR 90% REVIEW	BJ	BJ
B	2017APR03	ISSUED FOR DRAFT	JH	BJ
A	2017MAR29	ISSUED FOR 30% REVIEW	JH	BJ

PROJECT No.	20173924-00	INITIALS
DRAWN BY	J HUBERT	
DESIGNED BY	S BARTSCH / B JARDINE	
SCALE	AS SHOWN	

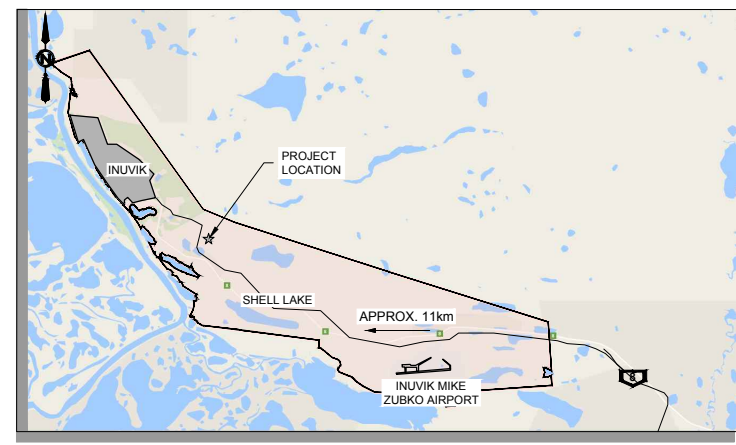
PERMIT TO PRACTICE
ASSOCIATED ENGINEERING (B.C.) LTD.

Signature:

Date: 10 May 2017

PERMIT NUMBER: P 554

The Association of Professional Engineers, Geologists and Geophysicists of NWT/NU



PLAN NTS
KEY



PLAN 1:2000
OVERALL SITE

P:\2017\3924\00_KBL_Inuvik\Working_Design\10_Civil\3924-00-101.dwg
DATE: 6/10/2017 11:21:29 AM, Chris Thibault

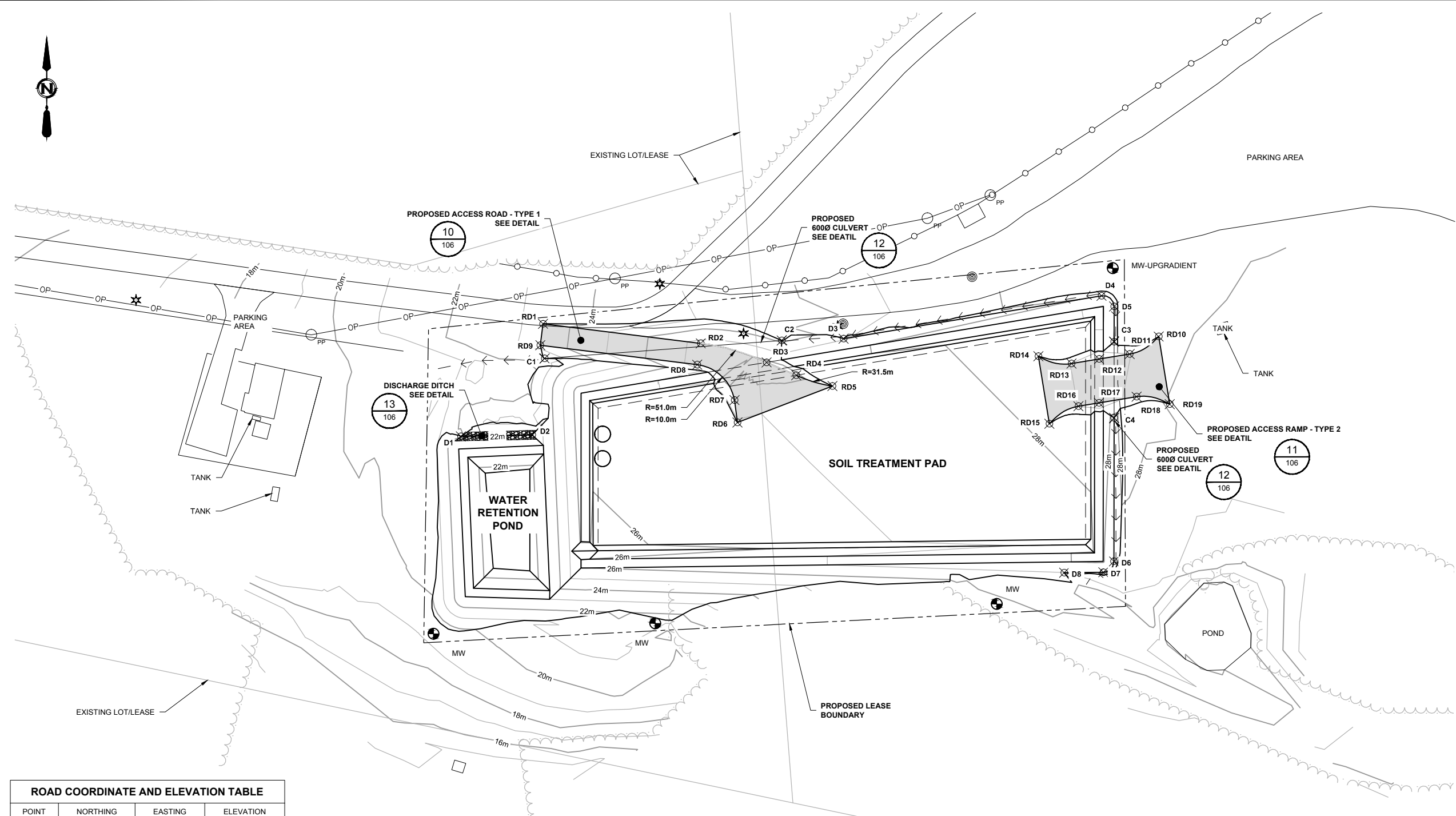
NLR/AE CONSULTANTS

CLIENT

PROJECT
INUVIK
SOIL TREATMENT FACILITY

TITLE
OVERALL SITE PLAN / KEY PLAN

DRAWING NUMBER	REV. NO.
3924-00-101	D



LEGEND

- 28 m — TOPOGRAPHIC MAJOR CONTOUR (LOCAL SITE ELEVATIONS) CONTOUR INTERVAL = 2.0 m
- TOPOGRAPHIC MINOR CONTOUR
- TREES
- EXISTING FENCE
- OP EXISTING OVERHEAD POWER
- PP EXISTING POWER POLE
- ★ EXISTING LIGHT
- ⊙ EXISTING TANK
- PROPOSED ROAD AREA
- → → DRAINAGE DIRECTION
- PROPOSED CULVERT
- SITE LIMITS
- PROPOSED MONITORING WELL
- RIP RAP

- NOT TO CONSTRUCT**
- NOTES:**
- DATUM: UTM NAD83 ZONE 8.
 - CONTOURS PROVIDED BY KBL.
 - BOLD LINES & TEXT REFERS TO NEW CONSTRUCTION.
 - MONITORING WELLS EXACT LOCATION TO BE DETERMINED ON SITE.

No.	DATE	REVISION	BY	APP.
D	2017MAY10	ISSUED FOR APPROVAL	NAR	BJ
C	2017MAY04	ISSUED FOR 90% REVIEW	BJ	BJ
B	2017APR03	ISSUED FOR DRAFT	JH	BJ
A	2017MAR29	ISSUED FOR 30% REVIEW	JH	BJ

PROJECT No.	20173924-00	INITIALS
DRAWN BY	J HUBERT	
DESIGNED BY	S BARTSCH / B JARDINE	
SCALE	1:1000	

REGISTERED PROFESSIONAL ENGINEER
PERMIT TO PRACTICE ASSOCIATED ENGINEERING (B.C.) LTD.
 Signature: *[Signature]*
 Date: 10 May 2017
PERMIT NUMBER: P 554
 The Association of Professional Engineers, Geologists and Geophysicists of NWT/NLU

NLR/AE CONSULTANTS

CLIENT

KBL

PROJECT
 INUVIK
 SOIL TREATMENT FACILITY

TITLE
 ROAD LAYOUT PLAN

DRAWING NUMBER	REV. NO.
3924-00-102	D

ROAD COORDINATE AND ELEVATION TABLE

POINT	NORTHING	EASTING	ELEVATION
RD1	7582208.33 ±	554255.66 ±	23.31 ±
RD2	7582203.80	554292.17	27.34
RD3	7582199.40	554307.41	24.59
RD4	7582196.43	554314.27	28.23
RD5	7582193.93	554322.66	27.39
RD6	7582185.51 ±	554300.67 ±	26.87 ±
RD7	7582190.68 ±	554299.98 ±	27.65 ±
RD8	7582198.86	554291.36	27.32
RD9	7582203.37	554255.05	23.31
RD10	7582205.37	554398.14	28.15
RD11	7582201.32	554391.42	29.03
RD12	7582200.17	554384.37	29.68
RD13	7582199.12	554377.96	29.03
RD14	7582200.83	554370.30	28.33
RD15	7582185.20	554372.85	28.10
RD16	7582189.25	554379.57	29.02
RD17	7582190.03	554384.32	29.50
RD18	7582191.45	554393.03	28.70
RD19	7582189.74 ±	554400.69 ±	27.98 ±

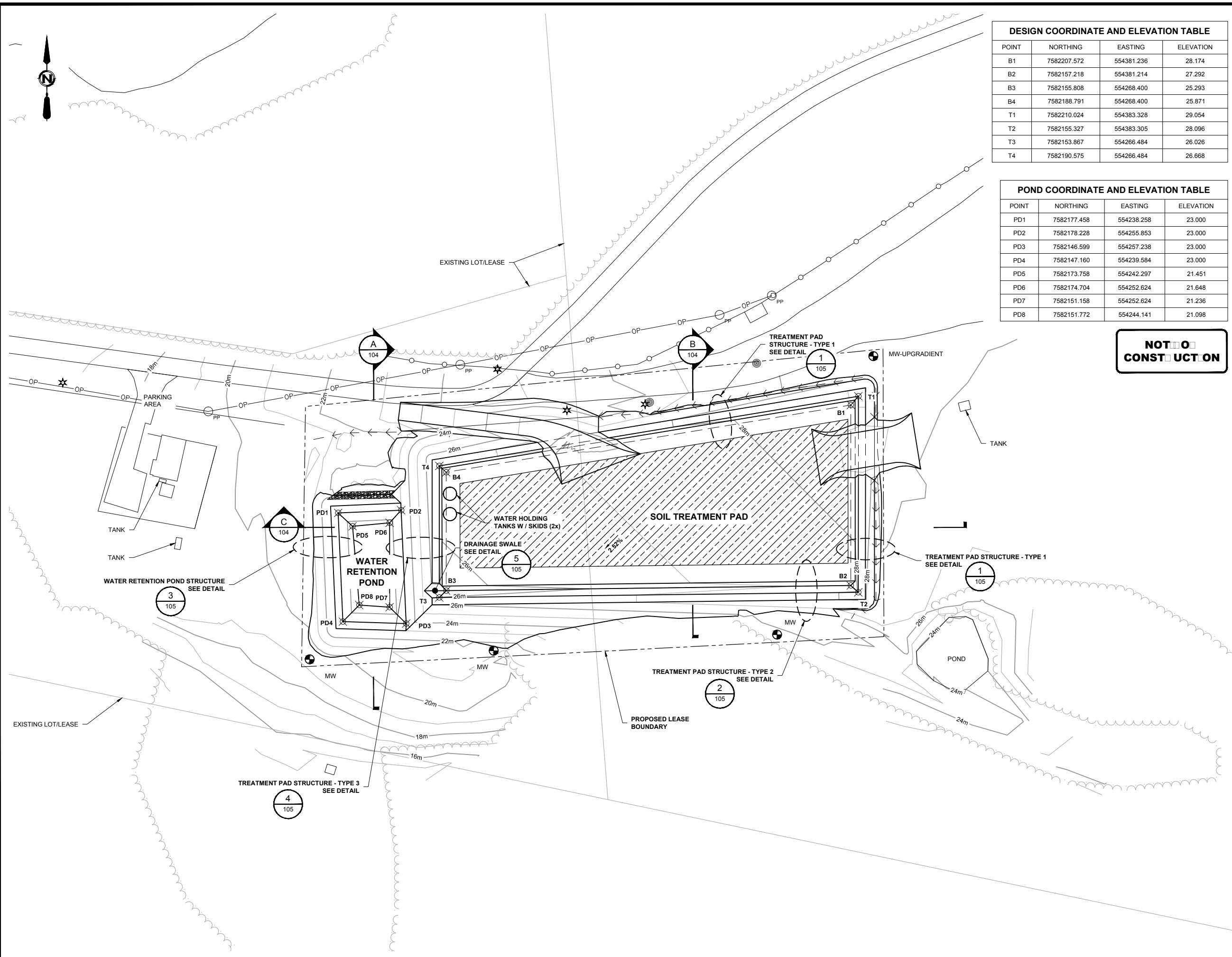
DITCH COORDINATE AND ELEVATION TABLE

POINT	NORTHING	EASTING	ELEVATION
D1	7582182.273	554236.671	21.848
D2	7582182.615	554253.161	22.000
D3	7582204.891	554325.216	26.883
D4	7582214.806	554384.918	28.054
D5	7582212.340	554387.827	28.054
D6	7582153.352	554387.805	27.096
D7	7582150.853	554385.338	27.096
D8	7582150.738	554376.272	26.970

CULVERT COORDINATE AND ELEVATION TABLE

POINT	NORTHING	EASTING	ELEVATION
C1	7582200.333	554256.037	22.308
C2	7582204.453	554310.905	25.832
C3	7582204.176	554387.825	27.951
C4	7582186.553	554387.818	27.643

P:\2017\3924\00_KBL_Inuvik\Working_Dwg\1106_Civil\3924-00-102.dwg
 DATE: 01/05/2017 11:12:52 AM, User: JHubert



DESIGN COORDINATE AND ELEVATION TABLE

POINT	NORTHING	EASTING	ELEVATION
B1	7582207.572	554381.236	26.174
B2	7582157.218	554381.214	27.292
B3	7582155.808	554268.400	25.293
B4	7582188.791	554268.400	25.871
T1	7582210.024	554383.328	29.054
T2	7582155.327	554383.305	28.096
T3	7582153.867	554266.484	26.026
T4	7582190.575	554266.484	26.668

POND COORDINATE AND ELEVATION TABLE

POINT	NORTHING	EASTING	ELEVATION
PD1	7582177.458	554238.258	23.000
PD2	7582178.228	554255.853	23.000
PD3	7582146.599	554257.238	23.000
PD4	7582147.160	554239.584	23.000
PD5	7582173.758	554242.297	21.451
PD6	7582174.704	554252.624	21.648
PD7	7582151.158	554252.624	21.236
PD8	7582151.772	554244.141	21.098

NOT TO CONSTRUCT ON

LEGEND

- 28m TOPOGRAPHIC MAJOR CONTOUR (LOCAL SITE ELEVATIONS) CONTOUR INTERVAL = 2.0m
- TOPOGRAPHIC MINOR CONTOUR
- TREES
- EXISTING FENCE
- EXISTING OVERHEAD POWER
- EXISTING POWER POLE
- EXISTING LIGHT
- EXISTING TANK
- WASTE COVERAGE AREA
- DRAINAGE DIRECTION
- PROPOSED CULVERT
- SITE LIMITS
- PROPOSED MONITORING WELL
- RIP RAP

- NOTES:**
- DATUM: UTM NAD83 ZONE 8.
 - CONTOURS PROVIDED BY KBL.
 - BOLD LINES & TEXT REFERS TO NEW CONSTRUCTION.
 - MONITORING WELLS EXACT LOCATION TO BE DETERMINED ON SITE.

No.	DATE	REVISION	BY	APP.
D	2017MAY10	ISSUED FOR APPROVAL	NAR	BJ
C	2017MAY04	ISSUED FOR 90% REVIEW	BJ	BJ
B	2017APR03	ISSUED FOR DRAFT	JH	BJ
A	2017MAR29	ISSUED FOR 30% REVIEW	JH	BJ

PROJECT No.	20173924-00	INITIALS
DRAWN BY	J HUBERT	
DESIGNED BY	S BARTSCH / B JARDINE	
SCALE	1:1000	

PERMIT TO PRACTICE ASSOCIATED ENGINEERING (B.C.) LTD.

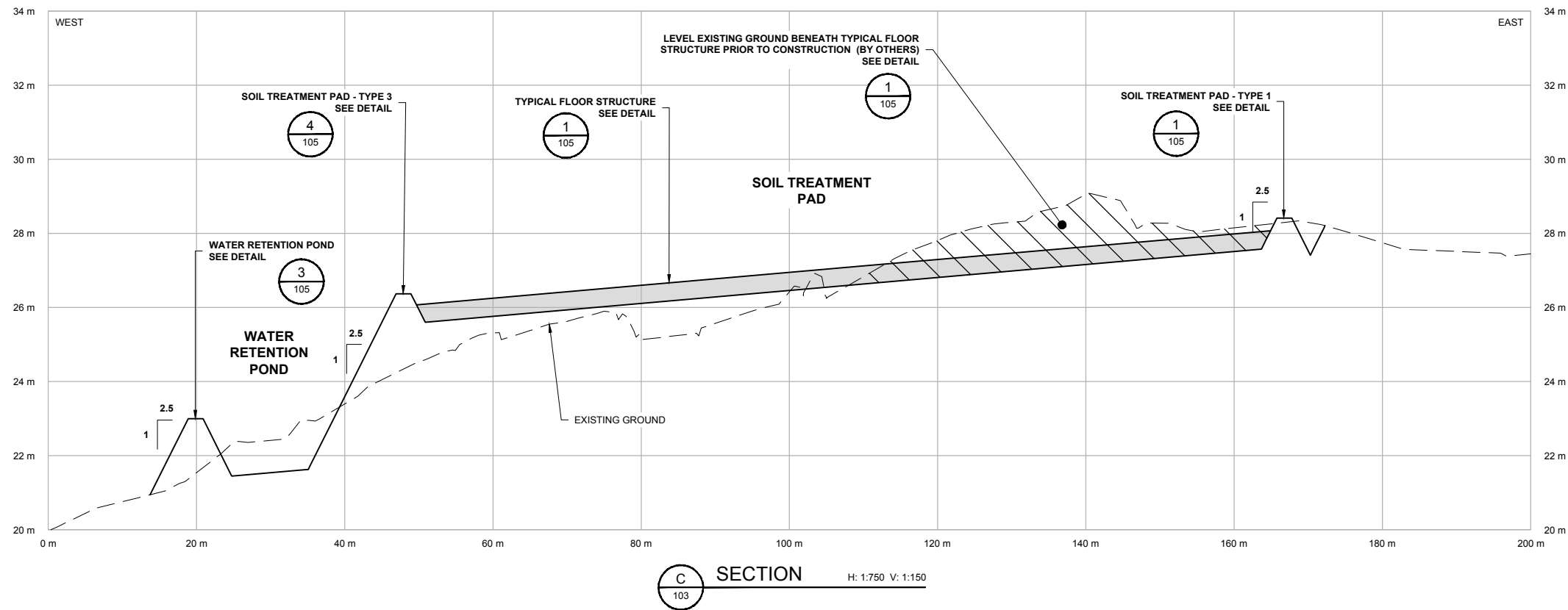
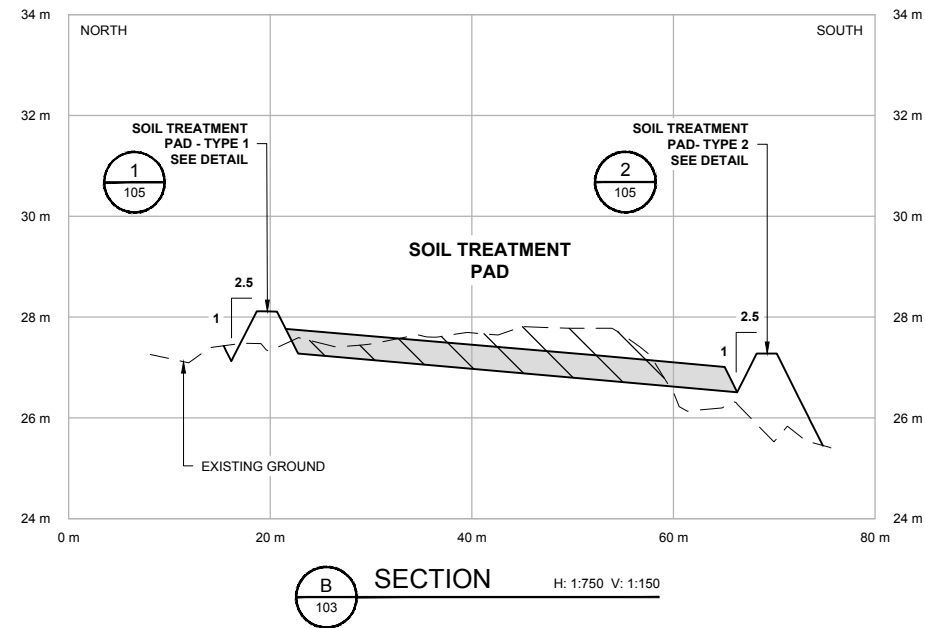
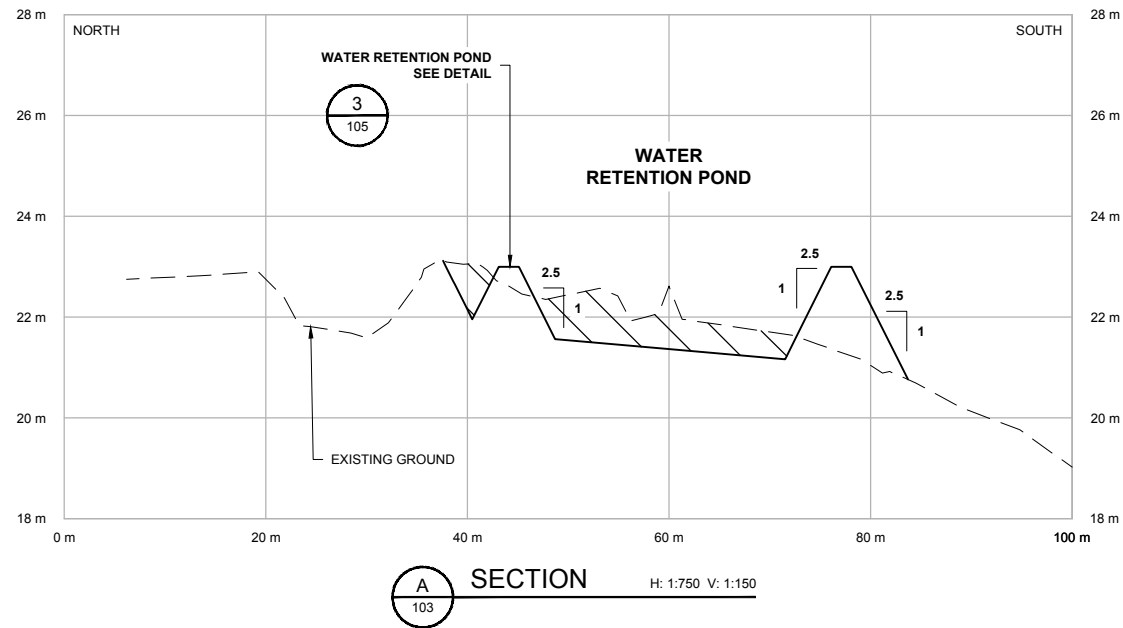
Signature: *[Signature]*
 Date: 10 May 2017
 PERMIT NUMBER: P 554
 The Association of Professional Engineers, Geologists and Geophysicists of NWT/NLU

NLR/AE CONSULTANTS

KBL

CLIENT	
PROJECT	INUVIK SOIL TREATMENT FACILITY
TITLE	DEVELOPMENT PLAN
DRAWING NUMBER	3924-00-103
REV. NO.	D

P:\2017\3924\00_KBL_Inuvik\Working_Design\100_Civil\3924-00-103.dwg
 DATE: 9/10/2017 11:23:37 AM, Civil, Theissen



NOT TO CONSTRUCTION

NOTES:

- 1. BOLD LINES & TEXT REFERS TO NEW CONSTRUCTION.

No.	DATE	REVISION	BY	APP.
D	2017MAY10	ISSUED FOR APPROVAL	NAR	BJ
C	2017MAY04	ISSUED FOR 90% REVIEW	BJ	BJ
B	2017APR03	ISSUED FOR DRAFT	JH	BJ
A	2017MAR29	ISSUED FOR 30% REVIEW	JH	BJ

PROJECT No.	20173924-00	INITIALS
DRAWN BY	J HUBERT	
DESIGNED BY	S BARTSCH / B JARDINE	
SCALE	AS SHOWN	

REGISTERED PROFESSIONAL ENGINEER
 S. BARTSCH
 PERMIT TO PRACTICE
 ASSOCIATED ENGINEERING (B.C.) LTD.
 Signature: *[Signature]*
 Date: 10 May 2017
 PERMIT NUMBER: P 554
 The Association of Professional Engineers, Geologists and Geophysicists of NWT/NU

NLR/AE CONSULTANTS

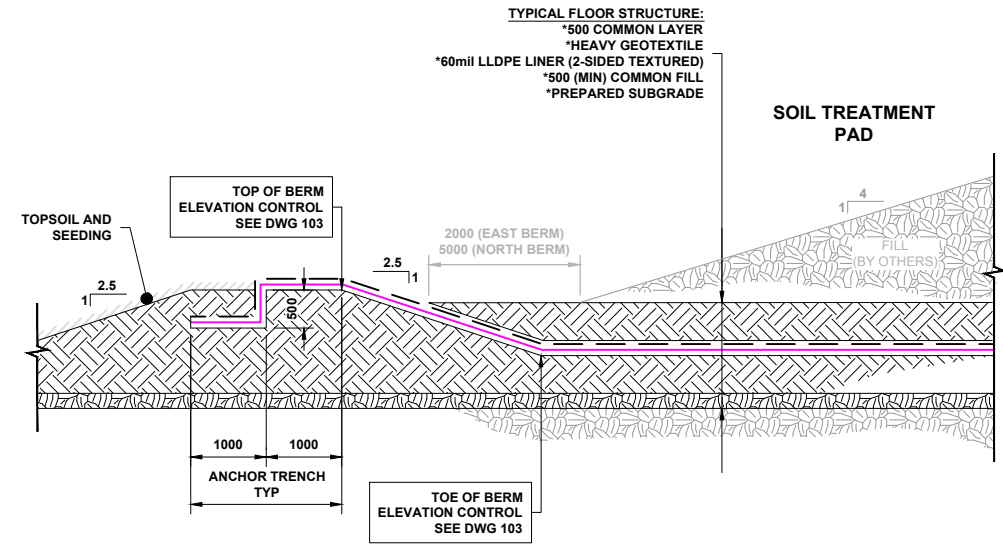
CLIENT
KBL

PROJECT
 INUVIK
 SOIL TREATMENT FACILITY

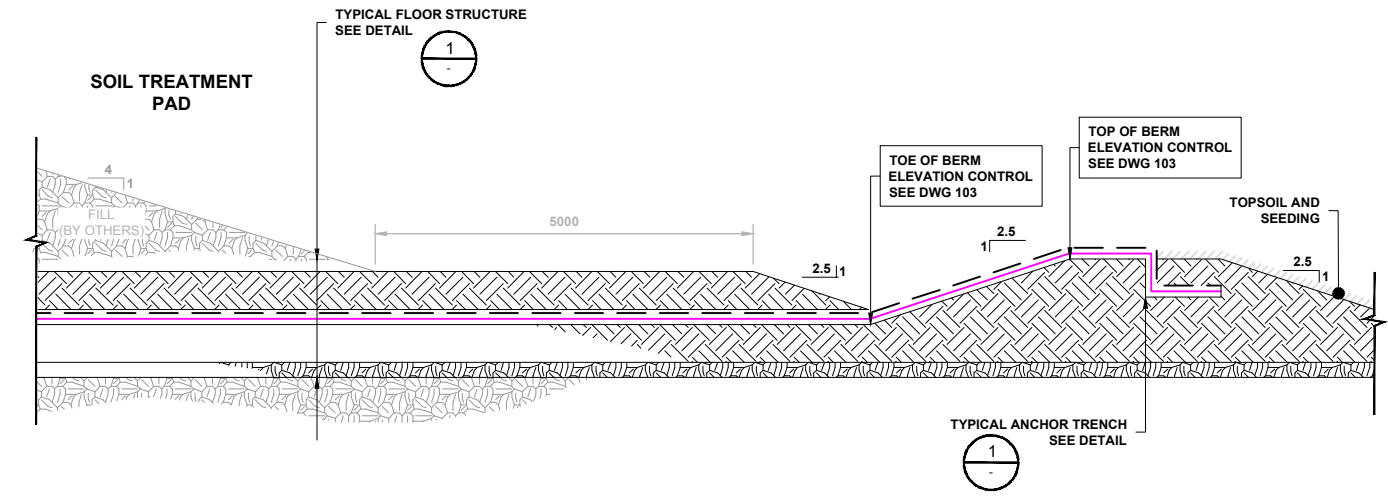
TITLE
 DEVELOPMENT SECTIONS

DRAWING NUMBER	REV. NO.
3924-00-104	D

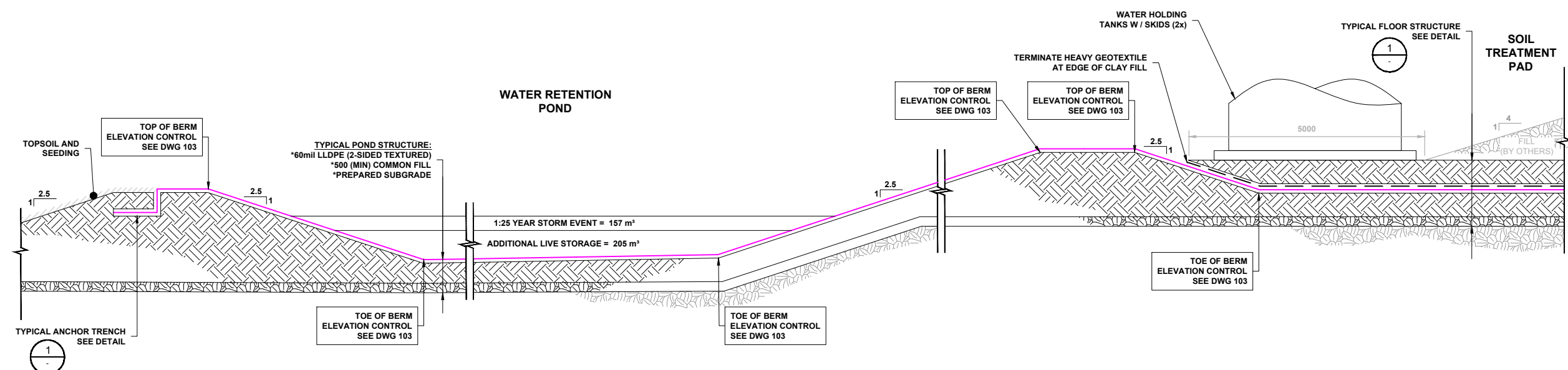
P:\2017\3924\00_KBL_Inuvik\Working_Design\10_Consultants.dwg
 DATE: 01/05/2017 11:25:51 AM, Chris Thomson



1 1
103 104
DETAIL NTS
SOIL TREATMENT PAD - TYPE 1

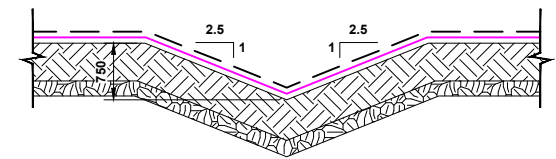


2 2
103 104
DETAIL NTS
SOIL TREATMENT PAD - TYPE 2



3 3
103 104
DETAIL NTS
WATER RETENTION POND

4 4
103 104
DETAIL NTS
SOIL TREATMENT PAD - TYPE 3



5
103
DETAIL NTS
DRAINAGE SWALE

LEGEND

	HEAVY GEOTEXTILE
	60mil LLDPE LINER
	COMMON FILL

NOT TO CONSTRUCTION

- NOTES:
- BOLD LINES & TEXT REFERS TO NEW CONSTRUCTION.
 - DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

No.	DATE	REVISION	BY	APP.
D	2017MAY10	ISSUED FOR APPROVAL	NAR	BJ
C	2017MAY04	ISSUED FOR 90 REVIEW	BJ	BJ
B	2017APR03	ISSUED FOR DRAFT	JH	BJ
A	2017MAR29	ISSUED FOR 30 REVIEW	JH	BJ

PROJECT No.	20173924-00	INITIALS
DRAWN BY	J HUBERT	
DESIGNED BY	S BARTSCH / B JARDINE	
SCALE	AS SHOWN	

PERMIT TO PRACTICE
ASSOCIATED ENGINEERING (B.C.) LTD.
Signature: *[Signature]*
Date: 10 May 2017
PERMIT NUMBER: P 554
The Association of Professional Engineers, Geologists and Geophysicists of NWT/NU

NLR/AE CONSULTANTS

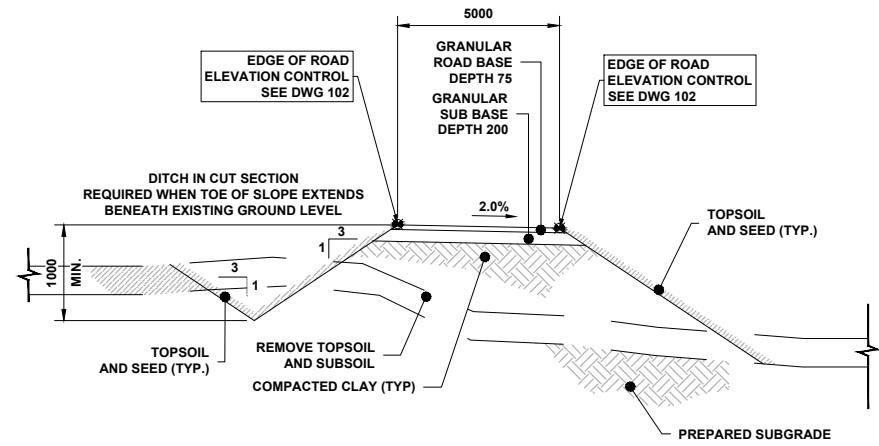
KBL

CLIENT
PROJECT
INUVIK
SOIL TREATMENT FACILITY

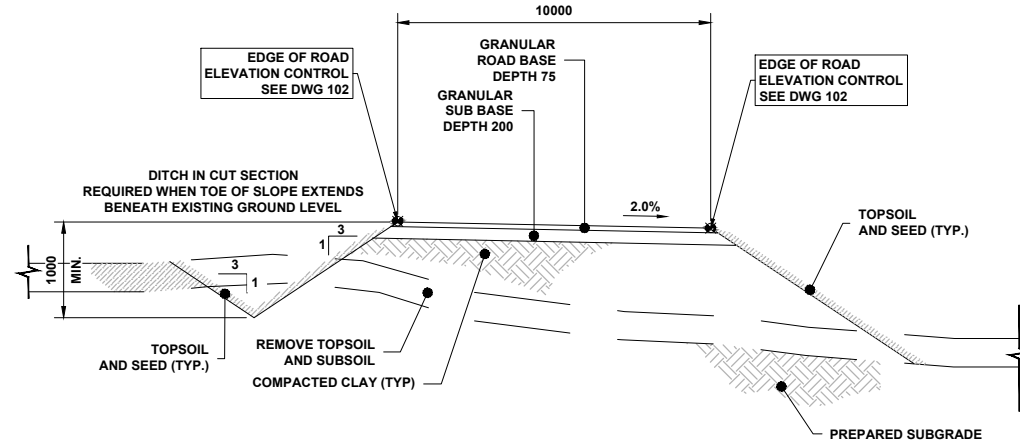
TITLE
DETAILS
SHEET 1 OF 2

DRAWING NUMBER	REV. NO.
3924-00-105	D

P:\2017\3924\00_KBL_Inuvik\Working_Dwg\110_Civil\3924-00-105.dwg
DATE: 6/10/2017 11:23:10 AM, Chris Thibault



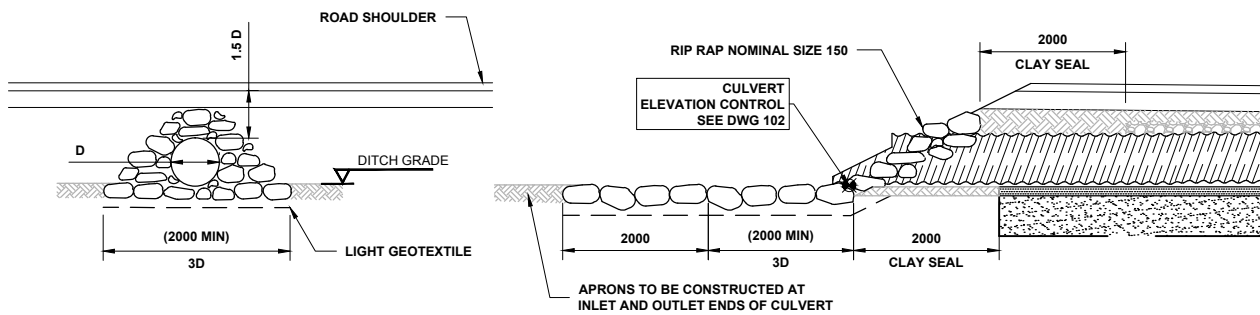
10 DETAIL NTS
102 ACCESS ROAD - TYPE 1



11 DETAIL NTS
102 ACCESS ROAD - TYPE 2

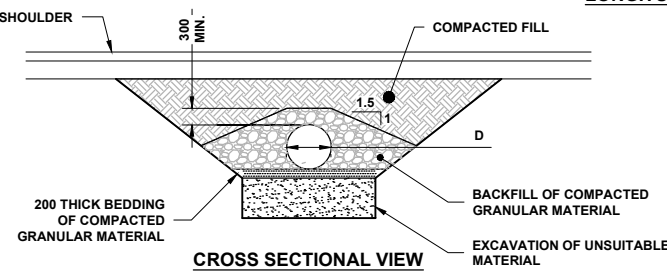
NOT TO CONSTRUCTION

- NOTES:
- BOLD LINES & TEXT REFERS TO NEW CONSTRUCTION.
 - DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.



END VIEW

LONGITUDINAL VIEW

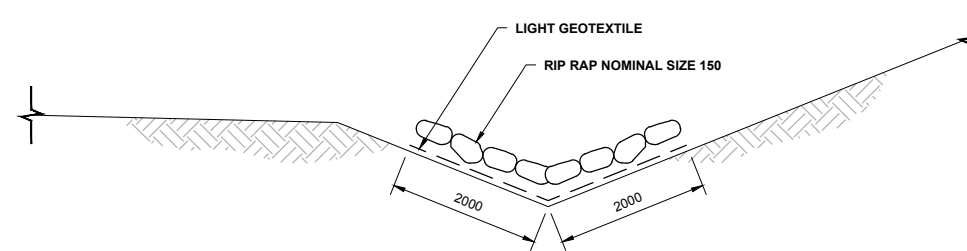


CROSS SECTIONAL VIEW

NOTES:

- DRAINAGE GRAVEL USED FOR BEDDING/BACKFILL
- BACKFILL TRENCH AREA TO 98% COMPACTION TO 300mm ABOVE TOP OF PIPE ELEVATIONS. EXCAVATE FOR AND PROCEED WITH TYPE 1 BEDDING AND PIPE INSTALLATION
- "D" SEE DWG 102

12 DETAIL NTS
102 CULVERT



13 DETAIL NTS
102 DISCHARGE DITCH

No.	DATE	REVISION	BY	APP.
B	2017MAY10	ISSUED FOR APPROVAL	NAR	BJ
A	2017MAY04	ISSUED FOR 90 REVIEW	NAR	BJ

PROJECT No.	20173924-00	INITIALS
DRAWN BY	N A RICHARDS	
DESIGNED BY	S BARTSCH / B JARDINE	
SCALE	AS SHOWN	

REGISTERED PROFESSIONAL ENGINEER
S. BARTSCH
10 May 2017
NTNU

PERMIT TO PRACTICE
ASSOCIATED ENGINEERING (B.C.) LTD.
Signature: [Signature]
Date: 10 May 2017
PERMIT NUMBER: P 554
The Association of Professional Engineers, Geologists and Geophysicists of NWTRNU

NLR/AE CONSULTANTS

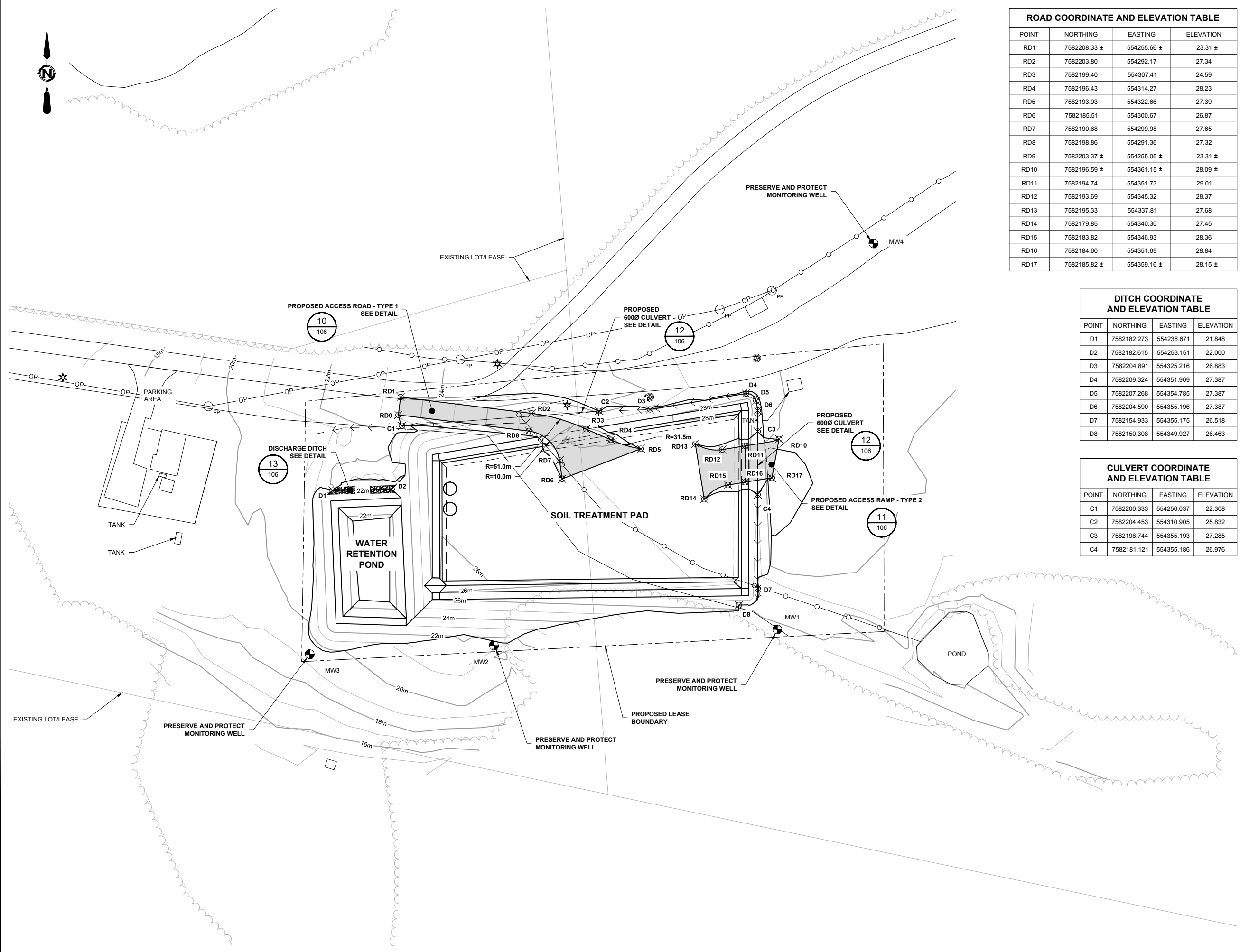
CLIENT
KBL

PROJECT
INUVIK
SOIL TREATMENT FACILITY

TITLE
DETAILS
SHEET 2 OF 2

DRAWING NUMBER	REV. NO.
3924-00-106	B

**Current Facility
Footprint**



ROAD COORDINATE AND ELEVATION TABLE			
POINT	NORTHING	EASTING	ELEVATION
RD1	7582208.33 ±	554255.66 ±	23.31 ±
RD2	7582203.80	554292.17	27.34
RD3	7582199.40	554307.41	24.59
RD4	7582196.43	554314.27	28.23
RD5	7582193.93	554322.66	27.39
RD6	7582185.51	554300.67	26.87
RD7	7582190.68	554299.98	27.65
RD8	7582198.86	554291.36	27.32
RD9	7582203.37 ±	554255.05 ±	23.31 ±
RD10	7582196.59 ±	554361.15 ±	28.09 ±
RD11	7582194.74	554351.73	29.01
RD12	7582193.69	554345.32	28.37
RD13	7582195.33	554337.81	27.68
RD14	7582179.85	554340.30	27.45
RD15	7582183.82	554346.93	28.36
RD16	7582184.60	554351.69	28.84
RD17	7582185.82 ±	554359.16 ±	28.15 ±

DITCH COORDINATE AND ELEVATION TABLE			
POINT	NORTHING	EASTING	ELEVATION
D1	7582182.273	554236.671	21.848
D2	7582182.615	554253.161	22.000
D3	7582204.891	554325.216	26.883
D4	7582209.324	554351.909	27.387
D5	7582207.268	554354.785	27.387
D6	7582204.590	554355.196	27.387
D7	7582154.933	554355.175	26.518
D8	7582150.308	554349.927	26.463

CULVERT COORDINATE AND ELEVATION TABLE			
POINT	NORTHING	EASTING	ELEVATION
C1	7582200.333	554256.037	22.308
C2	7582204.453	554310.905	25.832
C3	7582198.744	554355.193	27.285
C4	7582181.121	554355.186	26.976

LEGEND

- 28 m TOPOGRAPHIC MAJOR CONTOUR
CONTOUR INTERVAL = 2.0 m
- TOPOGRAPHIC MINOR CONTOUR
- TREES
- EXISTING FENCE
- EXISTING OVERHEAD POWER
- EXISTING POWER POLE
- EXISTING LIGHT
- EXISTING TANK
- PROPOSED ROAD AREA
- DRAINAGE DIRECTION
- PROPOSED CULVERT
- PROPOSED LEASE BOUNDARY
- EXISTING MONITORING WELL
- DESIGN COORDINATE POINT
- RIP RAP

- NOTES:**
- DATUM: UTM NAD83 ZONE 8.
 - CONTOURS PROVIDED BY KBL.
 - BOLD LINES & TEXT REFERS TO NEW CONSTRUCTION.
 - MONITORING WELLS EXACT LOCATION TO BE DETERMINED ON SITE.

No.	DATE	REVISION	BY	APP.
0	2017SEP08	ISSUED FOR CONSTRUCTION	NAR	BJ

PROJECT No.	20173924-00	INITIALS	
DRAWN BY	J HUBERT		
DESIGNED BY	S BARTSCH / B JARDINE		
SCALE	1:1000		



CLIENT
 PROJECT
 INUVIK
 SOIL TREATMENT FACILITY

TITLE
 ROAD LAYOUT PLAN

DRAWING NUMBER	REV. NO.
3924-00-102	0

P:\2017\3924\00_KBL_Inuvik\Working_Dwg\100_Civil\3924-00-102.dwg
 DATE: 08/07/2017 8:31:10 AM User: J.Hubert