



Public Works
Government Services
Canada

Architectural and
Engineering Services

Ontario Region

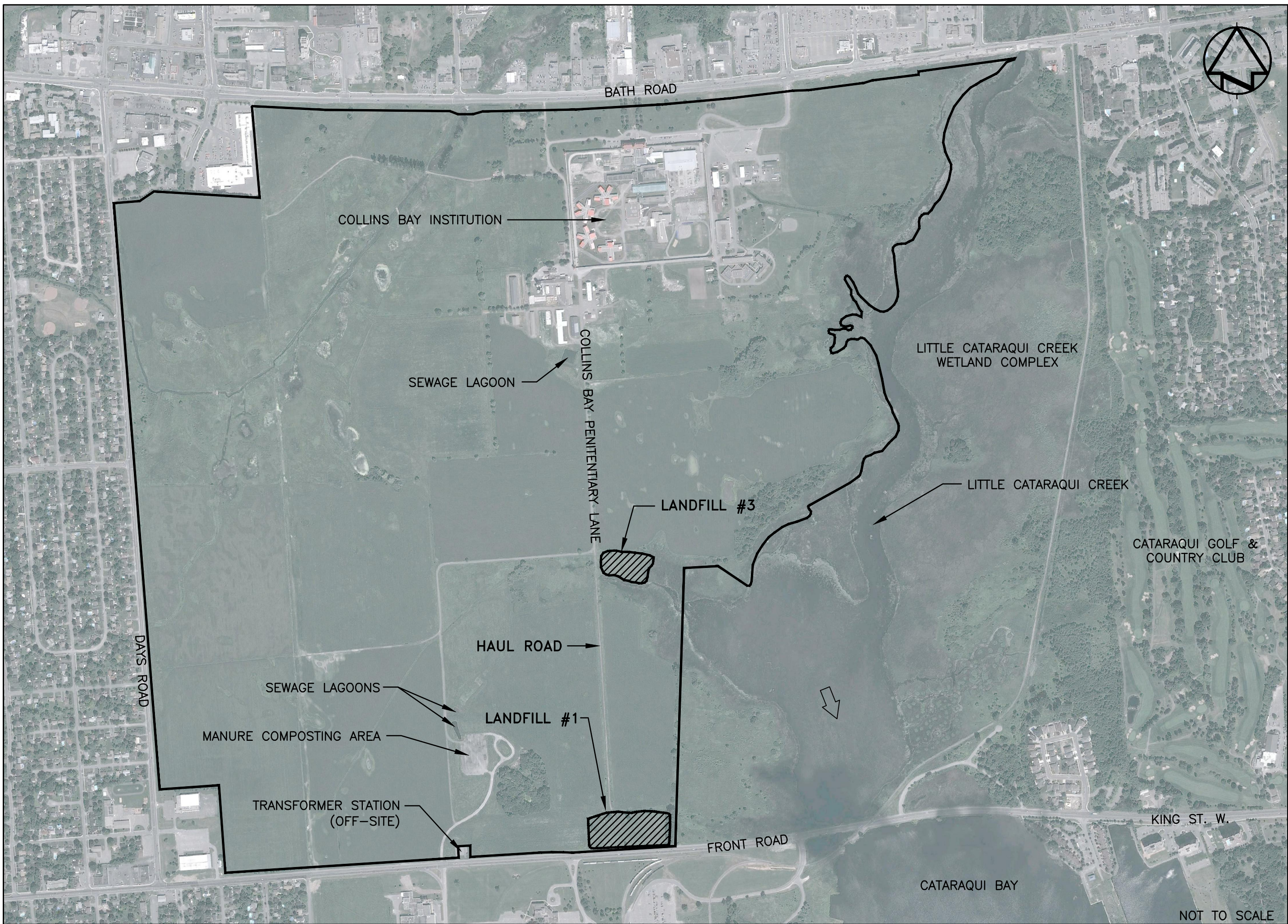
Travaux publics
Services gouvernementaux
Canada

Services d'architecture
et de génie

Région de l'Ontario

KINGSTON, ONTARIO
CSC COLLINS BAY INSTITUTION

LANDFILL CLOSURE WORKS, LANDFILLS #1 AND #3
PWGSC Proj. Nos.: R.058456.001 / R.058456.002



LIST OF DRAWINGS

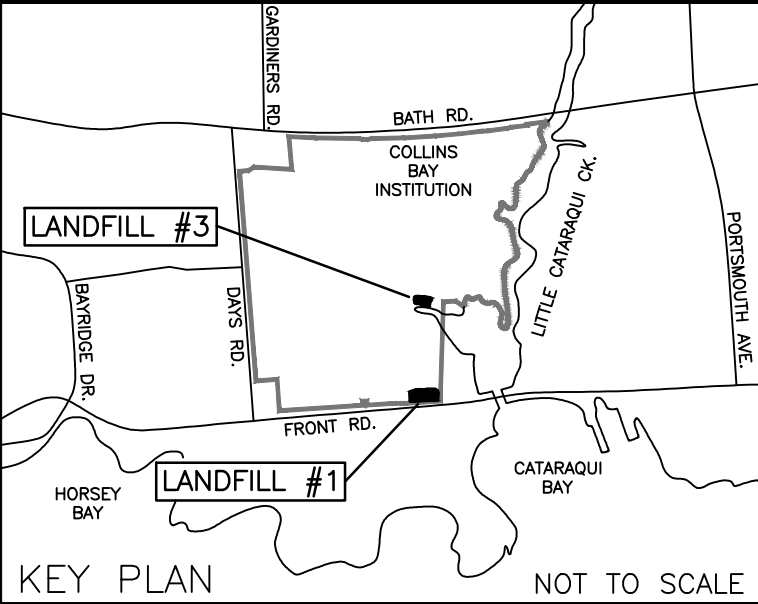
REMEDATION	
C-01	COVER SHEET / DRAWING INDEX
C-02	LANDFILL #1 & #3 EXISTING CONDITIONS
C-03	TEMPORARY WORKS/MONITORING WELL DECOMMISSIONING
C-04	LANDFILL #3 - EXCAVATION CONTOURS AND CROSS SECTIONS
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C-07	DETAILS
C-08	PERIMETER DITCH PROFILES AND DETAILS
C-09	HAUL ROAD DITCH PROFILES AND DETAILS

ISSUED FOR TENDER
JULY 25, 2014

Public Works and
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Travaux publics et
Services gouvernementaux Canada



SNC-LAVALIN



04		
03	ISSUED FOR TENDER	2014-07-25
02	ISSUED FOR CLIENT REVIEW	2014-06-20
01	ISSUED FOR CLIENT REVIEW	2014-04-21
revision		date

Do not scale drawings.
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A	Detail No. No. du détail
B	drawing no. - where detail required dessin no. - où détail exigé
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project title
titre du projet
LANDFILL CLOSURE WORKS
CORRECTIONAL SERVICE CANADA
COLLINS BAY INSTITUTION, LANDFILLS #1 & #3
KINGSTON, ONTARIO

drawing title
titre du dessin
COVER SHEET/DRAWING INDEX

drawn by
dessiné par
DM

designed by
conçu par
AM

approved by
approuvé par
DD

bid
offre
AM

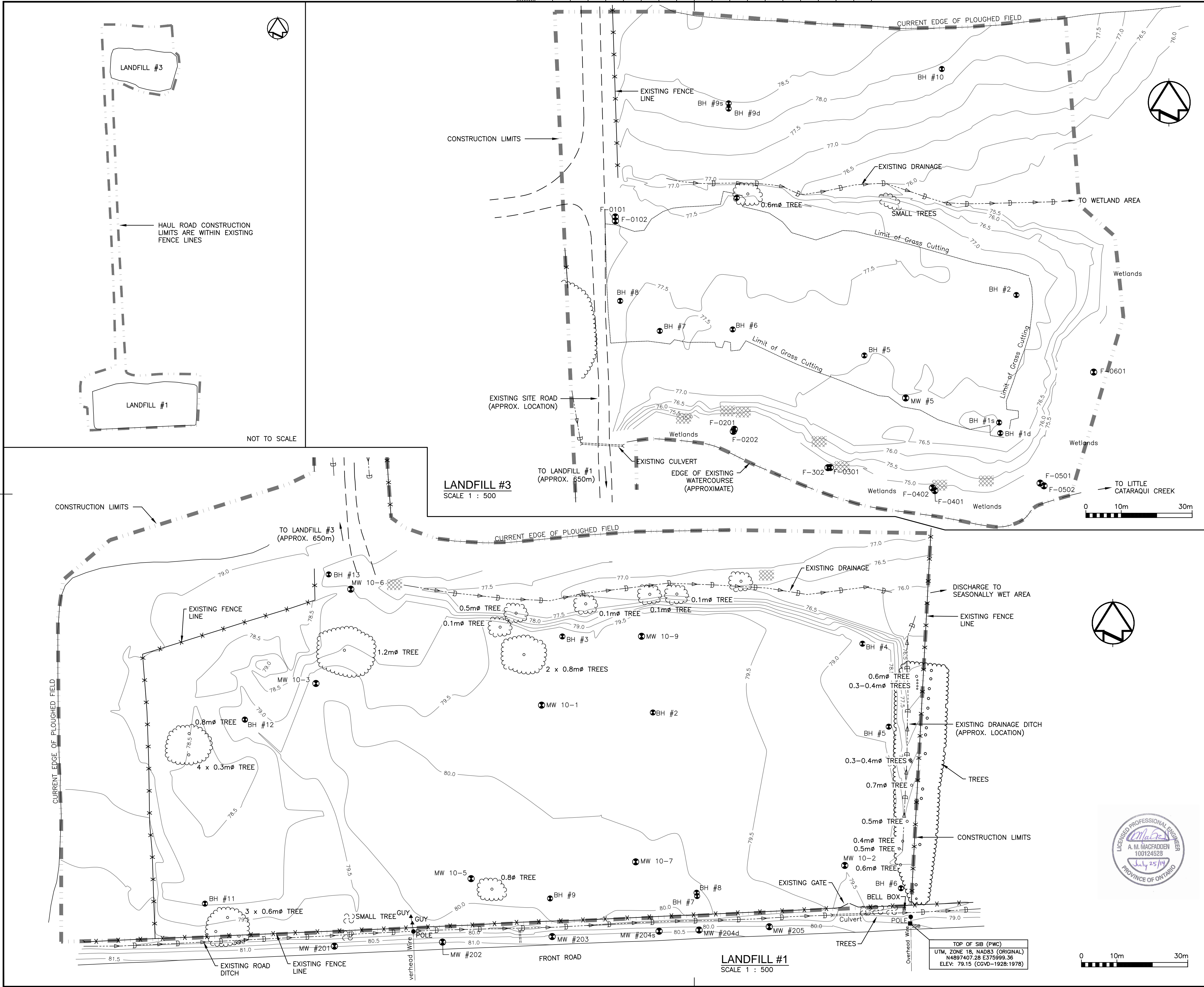
project manager
administrateur
de projets


project date
date du projet
2014-04-18

project no.
no. du projet
R.058456


drawing no.
dessiné no.
C-01

Canada

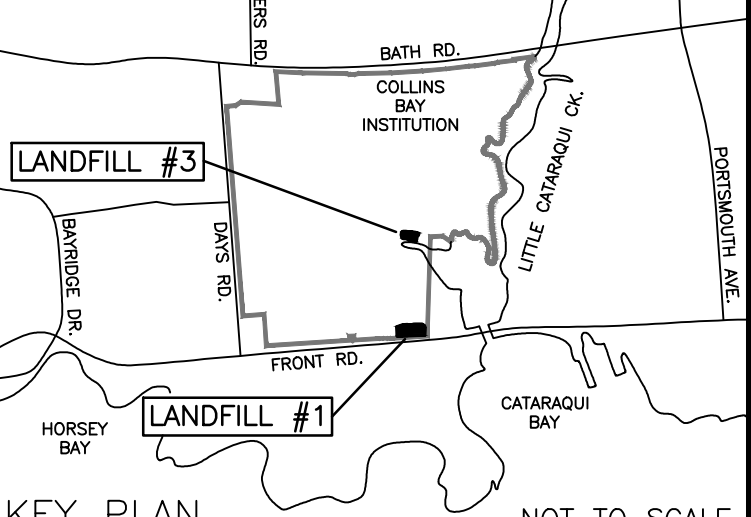




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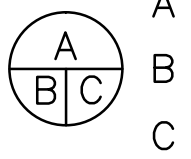
KEY PLAN
NOT TO SCALE

LEGEND

- FENCE LINE
- EXISTING DITCH
- CONSTRUCTION LIMITS
- CULVERT
- TREES
- MONITORING WELL
- POLE
- VISIBLE DEBRIS

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- C drawing no. - where detailed

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CORRECTIONAL SERVICE CANADA
COLLINS BAY INSTITUTION, LANDFILLS #1 & #3
KINGSTON, ONTARIO

drawing title
titre du dessin
EXISTING CONDITIONS

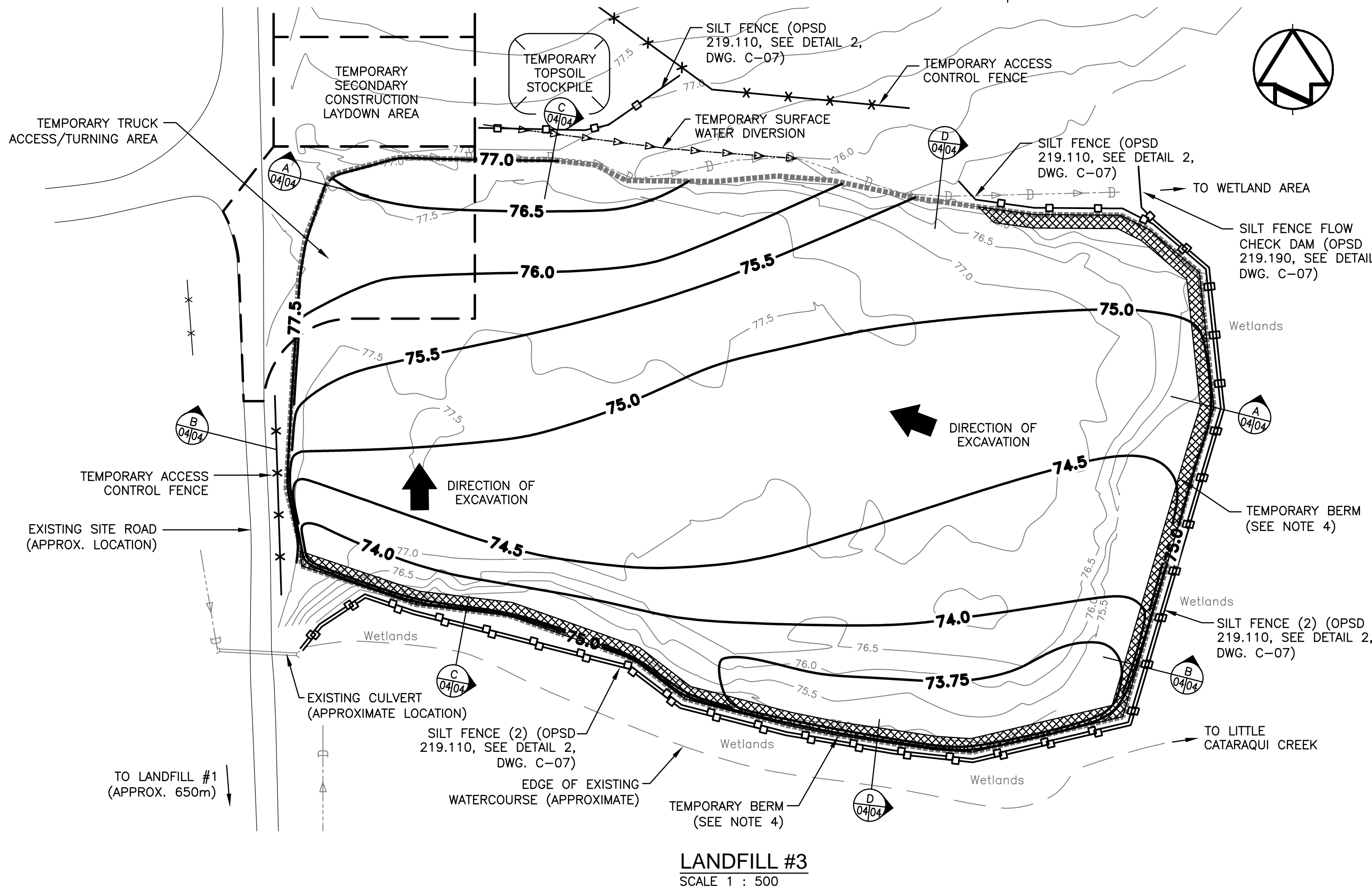
drawn by dessiné par	DM	
designed by conçu par	AM	
approved by approuvé par	DD	
bid offre	AM	project manager administrateur de projets
project date date du projet	2014-04-18	
project no. no. du projet	R.058456	
drawing no. dessiné no.	C-02	



LICENCED PROFESSIONAL ENGINEER
A. M. MACFADDEN
100124528
July 25/14
PROVINCE OF ONTARIO

TOP OF SIB (PWC)
UTM, ZONE 18, NAD83 (ORIGINAL)
N4897407.28 E375999.36
ELEV. 79.15 (CGVD-1928/1978)

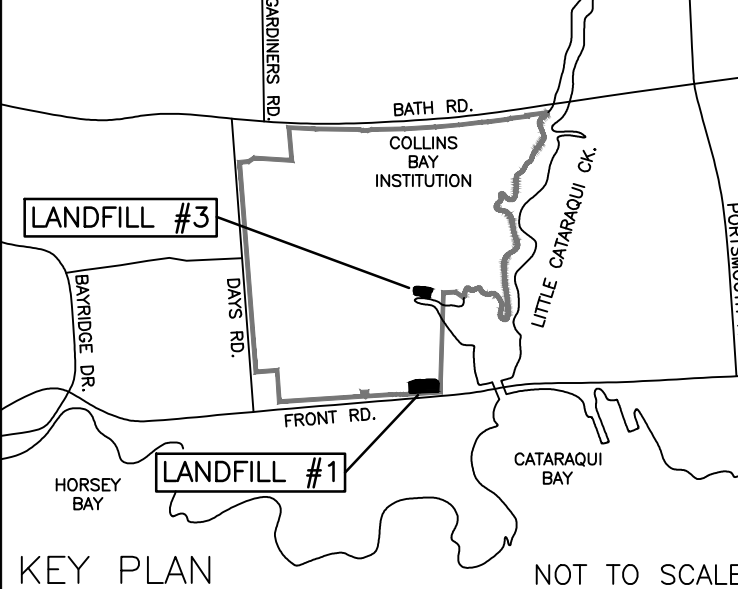
0 10m 30m



NOTES:

1. EXCAVATION CONTOURS AND DEPTH OF WASTE SHOWN ARE ESTIMATED BASED ON AVAILABLE DATA. ALL WASTE IS TO BE REMOVED AND RELOCATED TO LANDFILL #1.
2. ANY WASTE OR DEBRIS LOCATED OUTSIDE THE EXCAVATION LIMIT SHOWN IS TO BE REMOVED ALSO.
3. EXCAVATE/REMOVE WASTE STARTING FROM EAST SIDE OF EXISTING LANDFILL IN A WEST AND NORTH DIRECTION.
4. MAINTAIN A TEMPORARY BERM OF EXISTING WASTE/SOIL MATERIAL IN PLACE ON EAST AND SOUTH SIDES OF EXCAVATION AREA AS NECESSARY TO MINIMIZE SURFACE WATER FROM ENTERING THE EXCAVATION AREA. BERM MATERIAL TO BE REMOVED AT FINAL STAGE OF EXCAVATION.
5. INSTALL TEMPORARY SURFACE WATER DIVERSION CHANNEL ON THE NORTH SIDE OF THE EXCAVATION TO MINIMIZE SURFACE WATER FROM ENTERING THE EXCAVATION AREA.
6. ALL WATER WITHIN THE EXCAVATION SHALL BE CONTAINED AND ULTIMATELY PUMPED TO HOLDING TANKS. WATER WILL BE TESTED BY DEPARTMENTAL REPRESENTATIVE PRIOR TO DISCHARGE. IF WATER IS SUITABLE FOR DISCHARGE, IT IS TO BE FILTERED AND DISCHARGED TO A VEGETATED AREA AND NOT DIRECTLY TO THE STREAM. IF WATER IS NOT SUITABLE FOR DISCHARGE, IT SHALL BE DISPOSED OF OFF-SITE AT AN MOE LICENSED FACILITY.

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LEGEND

- FENCE LINE
- EXISTING DITCH
- CULVERT
- SILT FENCE
- APPROXIMATE LIMIT OF EXCAVATION
- ESTIMATED BOTTOM OF WASTE CONTOUR (m)
- TEMPORARY SURFACE WATER DIVERSION

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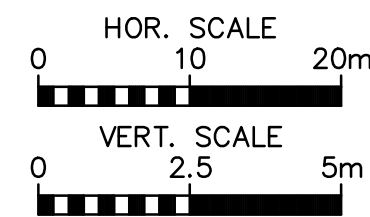
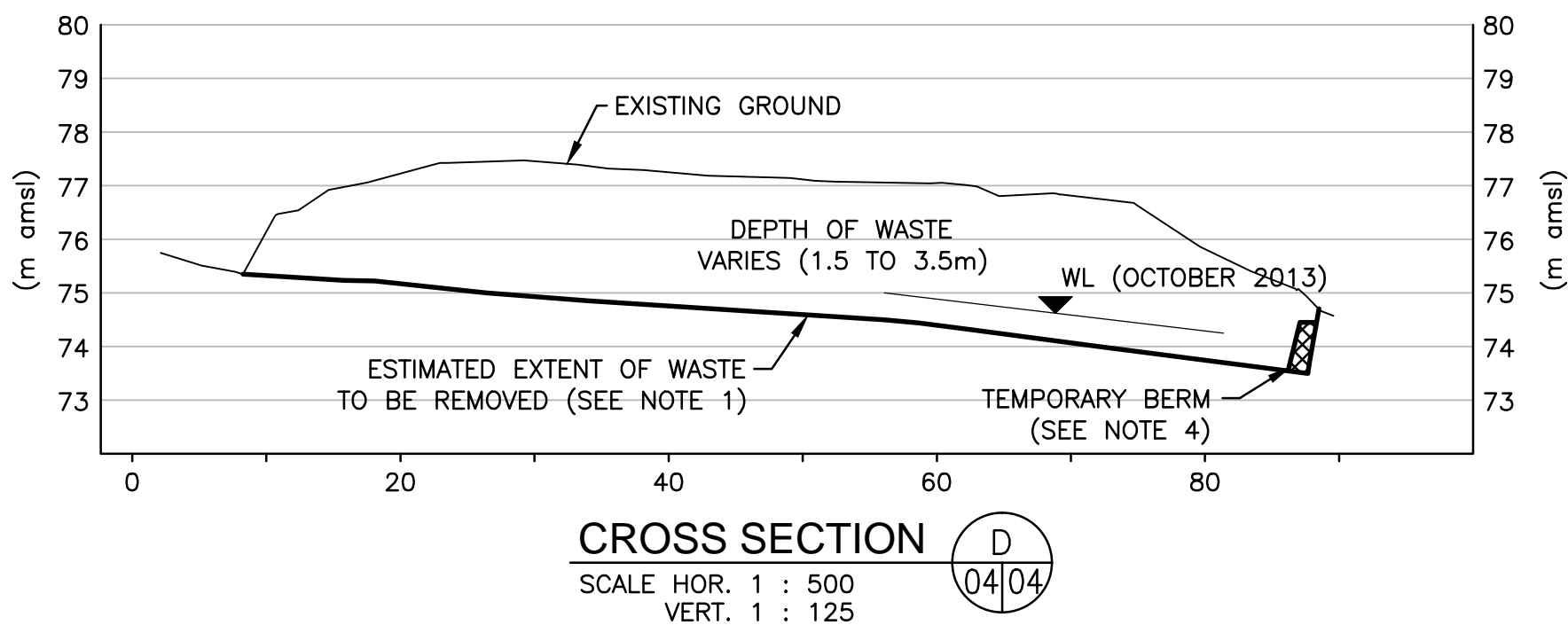
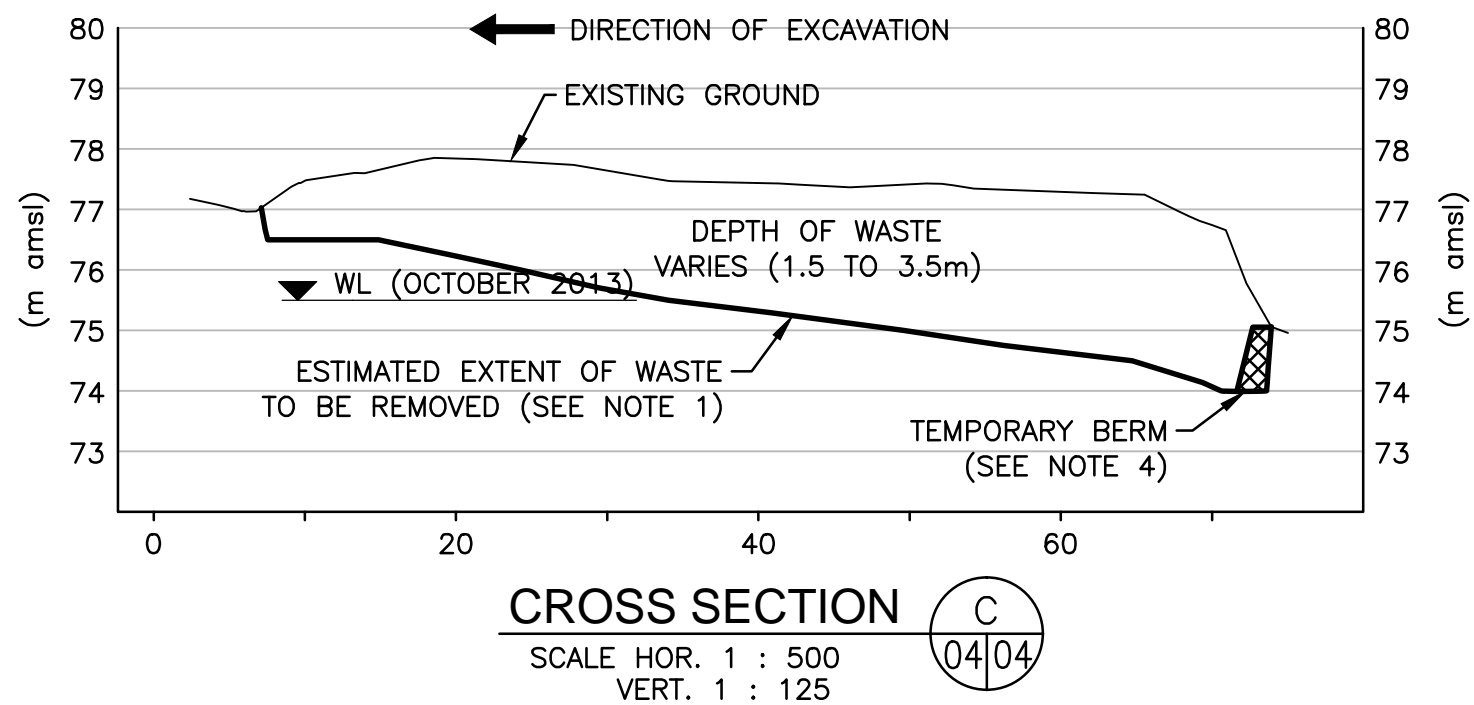
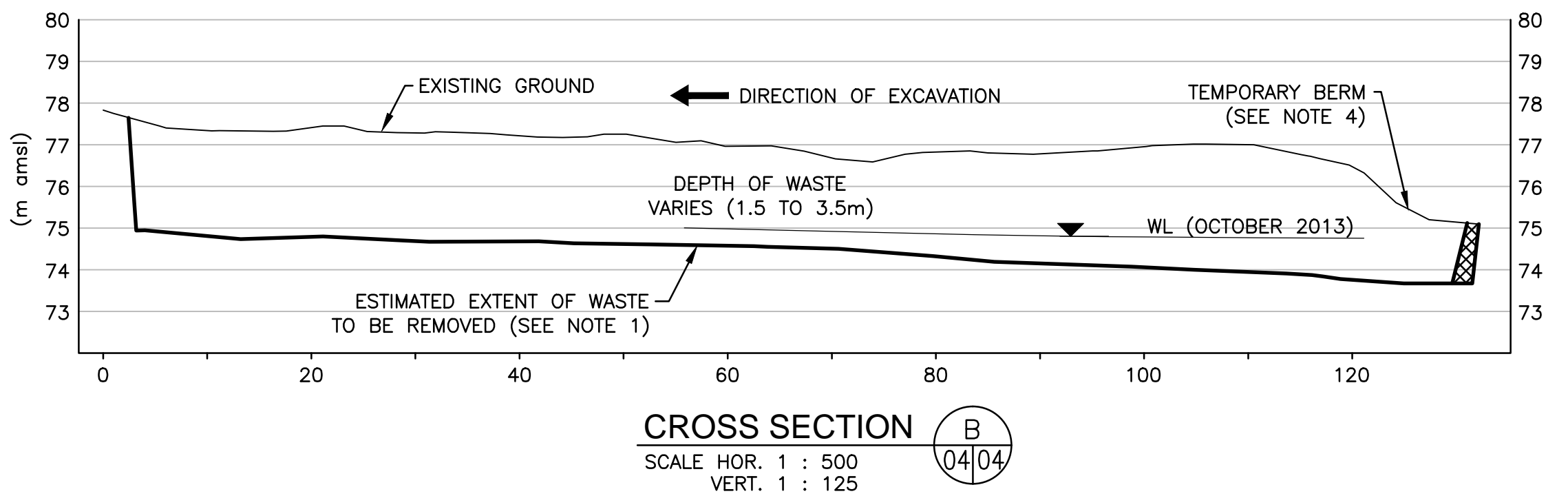
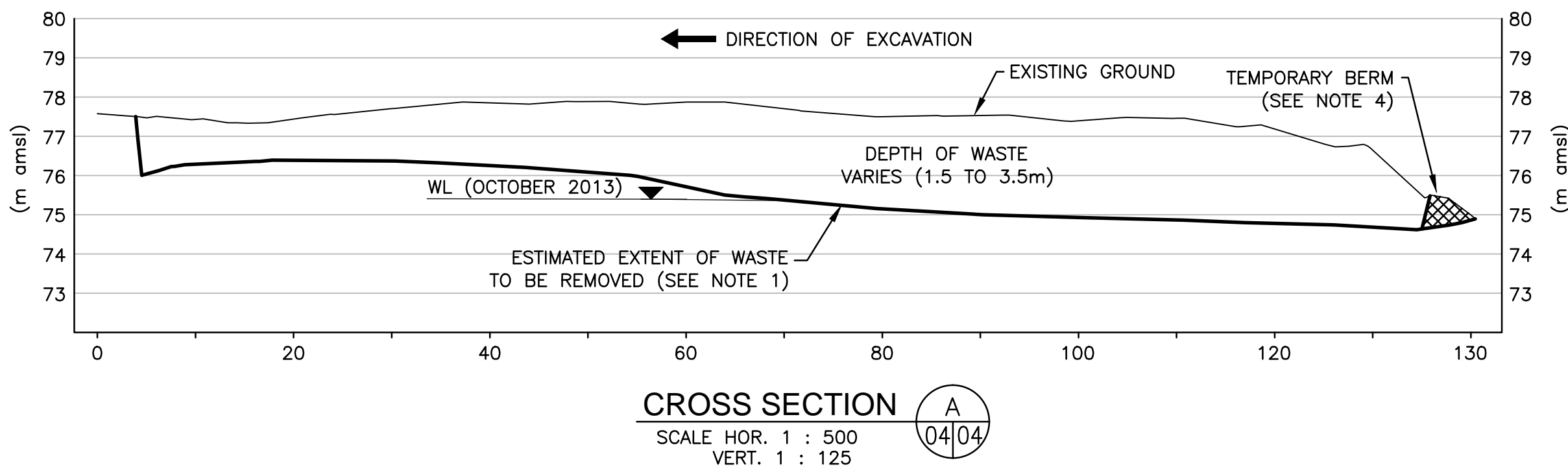
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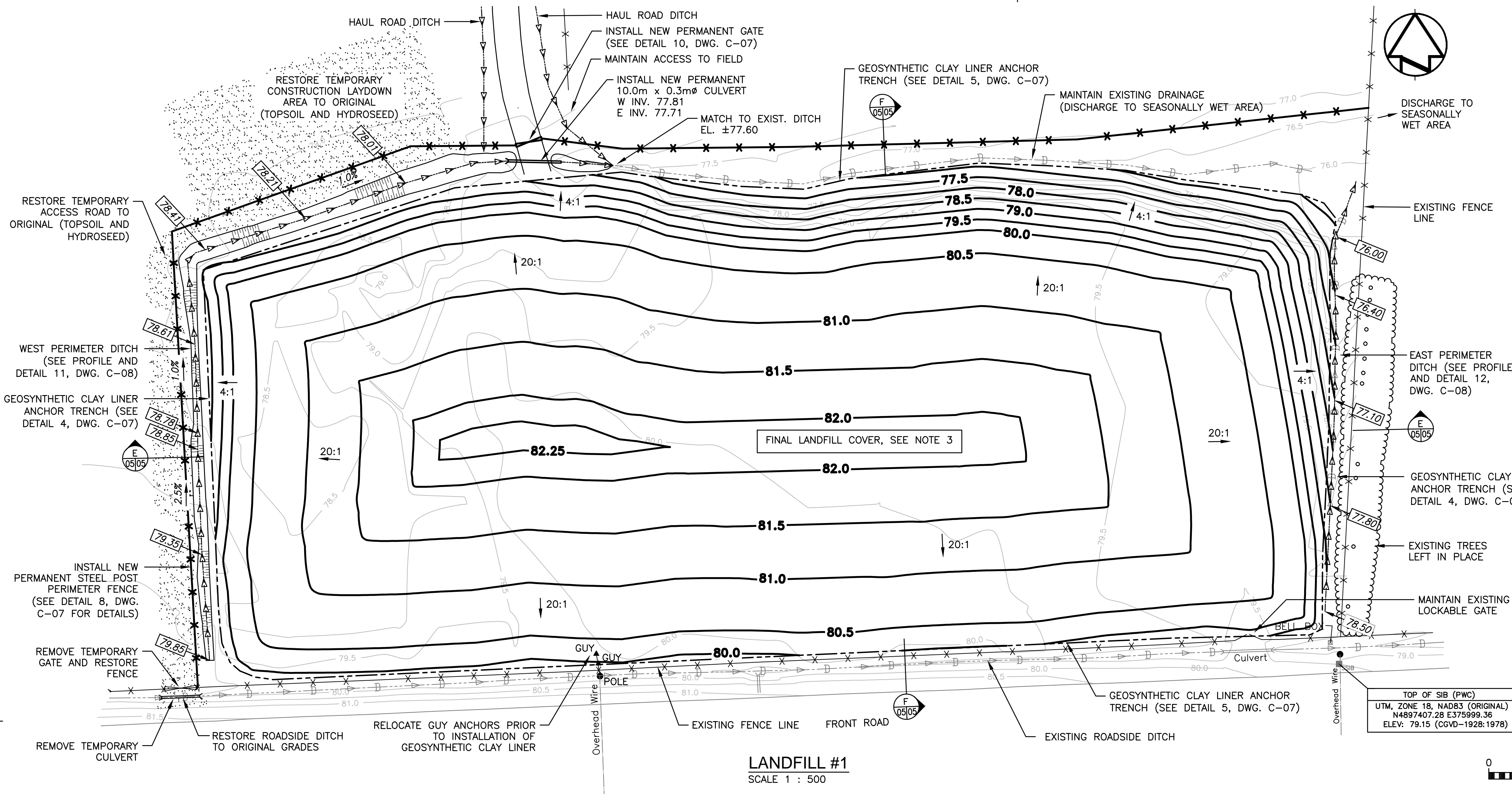
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LANDFILL CLOSURE WORKS

CORRECTIONAL SERVICES CANADA
COLLINS BAY INSTITUTION, LANDFILLS #1 & #3
KINGSTON, ONTARIO

drawing title
titre du dessin
**LANDFILL #3
EXCAVATION CONTOURS
AND CROSS SECTIONS**

drawn by dessiné par	DM	
designed by conc par	AM	
approved by approuvé par	DD	
bid offre	AM	project manager administrateur de projets
project date date du projet	2014-04-18	
project no. no. du projet	R.058456	
drawing no. dessiné no.	C-04	





REPLACE FENCING REMOVED OR
DAMAGED DURING CONSTRUCTION
WITH NEW STEEL POST AND
WIRE FENCE (SEE DETAIL 8,
DWG. C-07)

RESTORE AREAS AFFECTED
BY LAYDOWN AREA AND
TRUCK TRAFFIC TO
ORIGINAL (TOPSOIL AND
HYDROSEED)

MAINTAIN EXISTING DRAINAGE
(TO WETLAND AREA)

EXISTING SITE ROAD
(APPROX. LOCATION)

TO LANDFILL #1
(APPROX. 650m)

MATCH TO EXISTING
SLOPE

EXISTING CULVERT
(APPROXIMATE LOCATION)

EDGE OF EXISTING
WATERCOURSE
(APPROXIMATE)

LANDFILL #3
SCALE 1 : 500



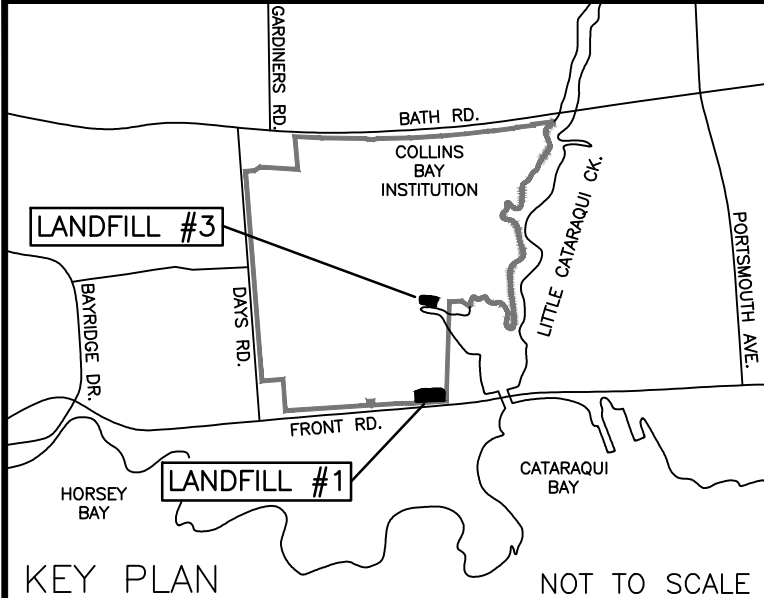
NOTES:

1. APPLY TOPSOIL AND HYDROSEED TO AREAS
INDICATED AFTER FINAL GRADING.
2. EXCAVATION AREAS NOT TOPSOILED OR SEEDED
WILL BE ALLOWED TO RETURN TO A NATURAL
STATE (WETLAND).
3. ADD FILL AND RE-GRADE ROADWAY SIDESLOPES
(EAST SIDE) TO 3 (HOR.) : 1 (VERT.).
4. TYPE 2 FILL AND TOPSOIL TO MEET SITE SPECIFIC
RESTORATION CRITERIA FOR SOIL (SEE REMEDIAL
ACTION PLAN), AS DETERMINED BY LABORATORY
ANALYTICAL RESULTS FOR SAMPLES SUBMITTED BY
DEPARTMENTAL REPRESENTATIVE.
5. TYPE 3 FILL TO MEET SITE SPECIFIC SEDIMENT
RESTORATION CRITERIA (SEE REMEDIAL ACTION
PLAN). MAY BE REQUIRED TO COVER IMPACTS (IF
PRESENT) IN THE AREA TO BE RESTORED AS
WETLAND. IMPORT TYPE 3 FILL ONLY IF DIRECTED
BY THE DEPARTMENTAL REPRESENTATIVE.

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LEGEND

- X X FENCE LINE
- - - - - EXISTING DITCH
- - - - - CULVERT
- 75.0 - ESTIMATED BOTTOM OF
WASTE CONTOUR (m)
- Area to be restored
- Area to be restored
to wetland

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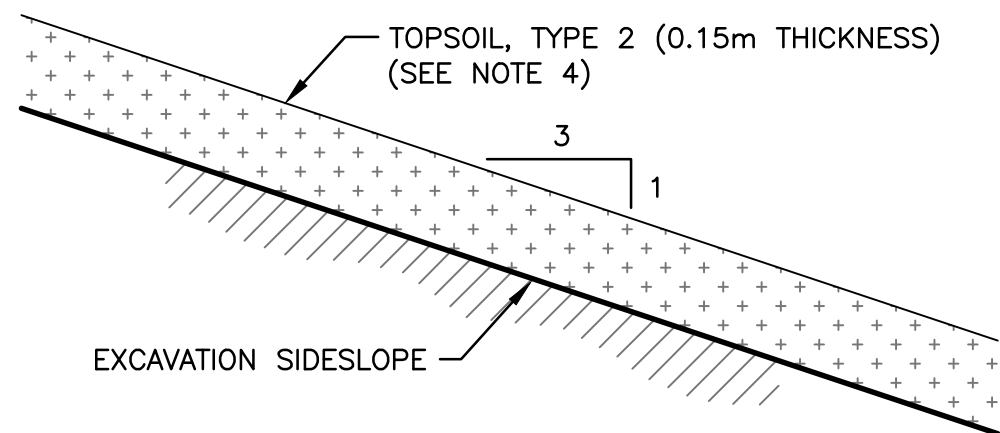
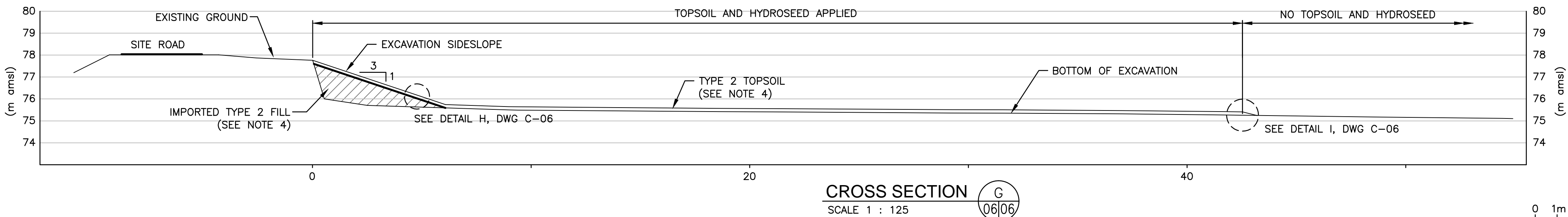
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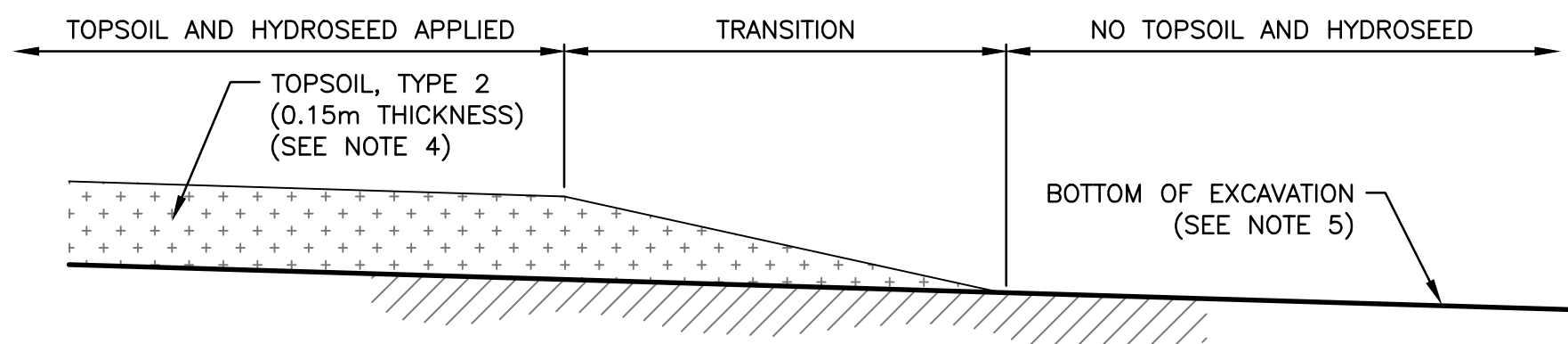
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CORRECTIONAL SERVICES CANADA
COLLINS BAY INSTITUTION, LANDFILLS #1 & #3
KINGSTON, ONTARIO

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titre du dessin
**LANDFILL #3
FINAL GRADING AND
AND CROSS SECTIONS**

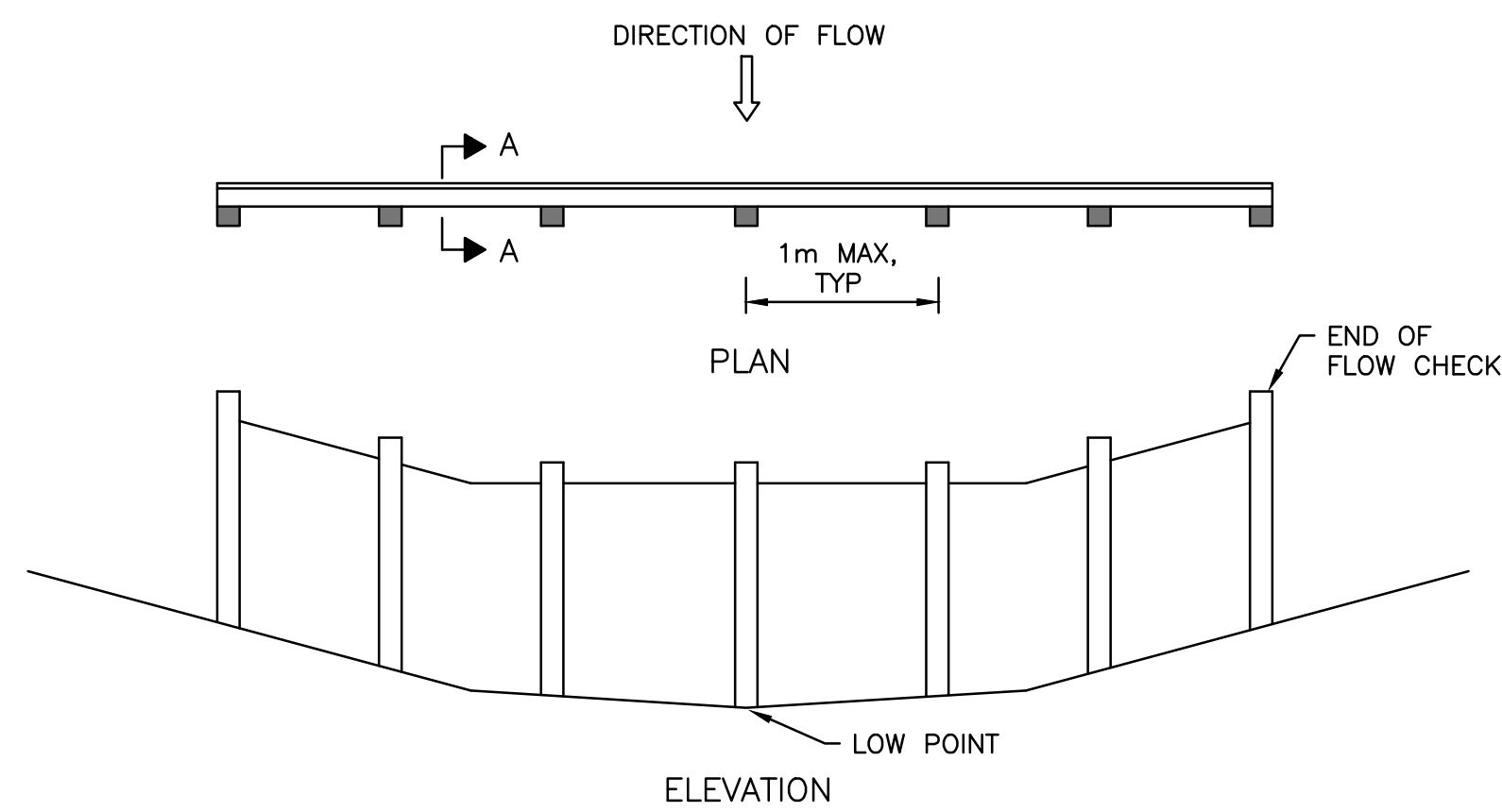
drawn by dessiné par	DM	
designed by conc par	AM	
approved by approuvé par	DD	
bid offre	AM	project manager administrateur de projets
project date date du projet	2014-04-18	
project no. no. du projet	R.058456	
drawing no. dessiné no.	C-06	



DETAIL
NOT TO SCALE
H
06/06



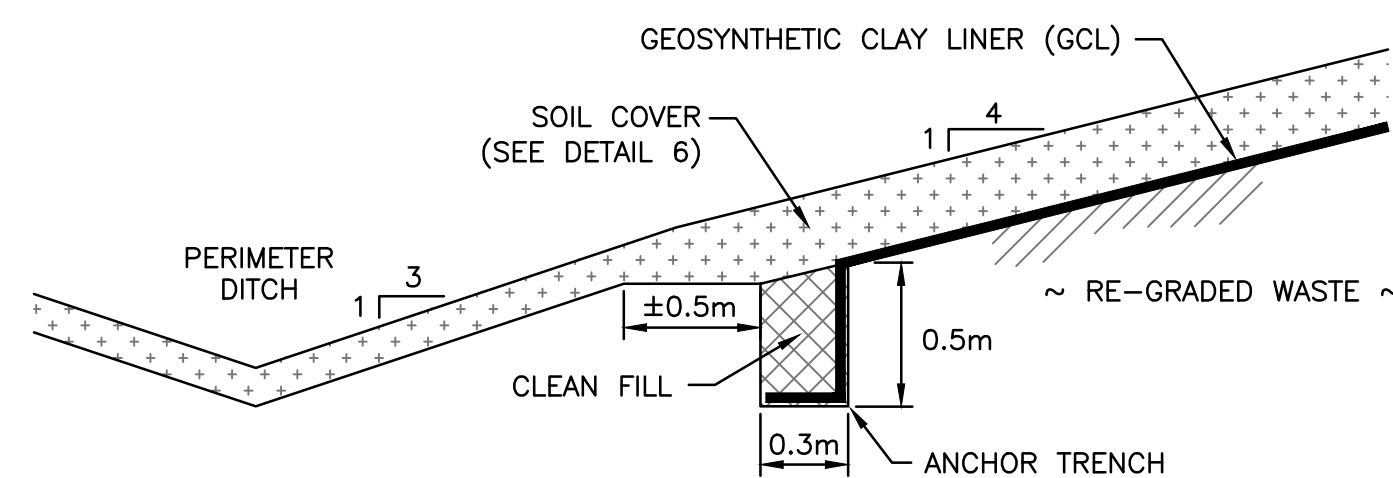
DETAIL
NOT TO SCALE
I
06/06



**DETAIL - OPSD 219.190
SILT FENCE FLOW CHECK DAM**

NOT TO SCALE

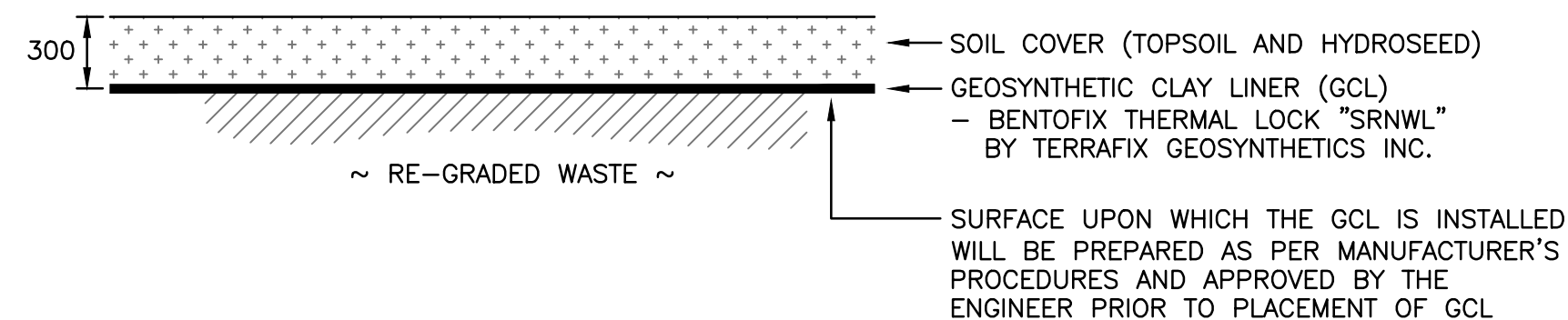
1
03/07



**DETAIL - TYPICAL GEOSYNTHETIC CLAY LINER ANCHOR
TRENCH DETAIL (AT PERIMETER DITCH)**

NOT TO SCALE

4
05/07

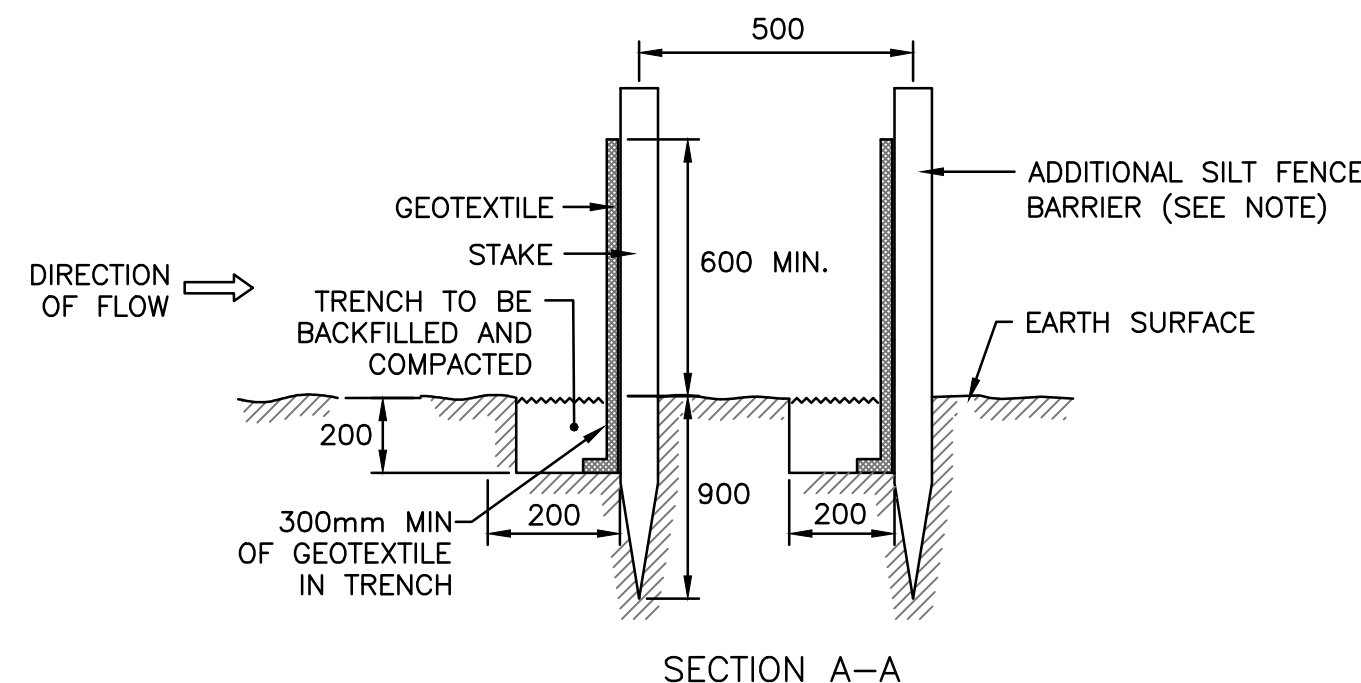
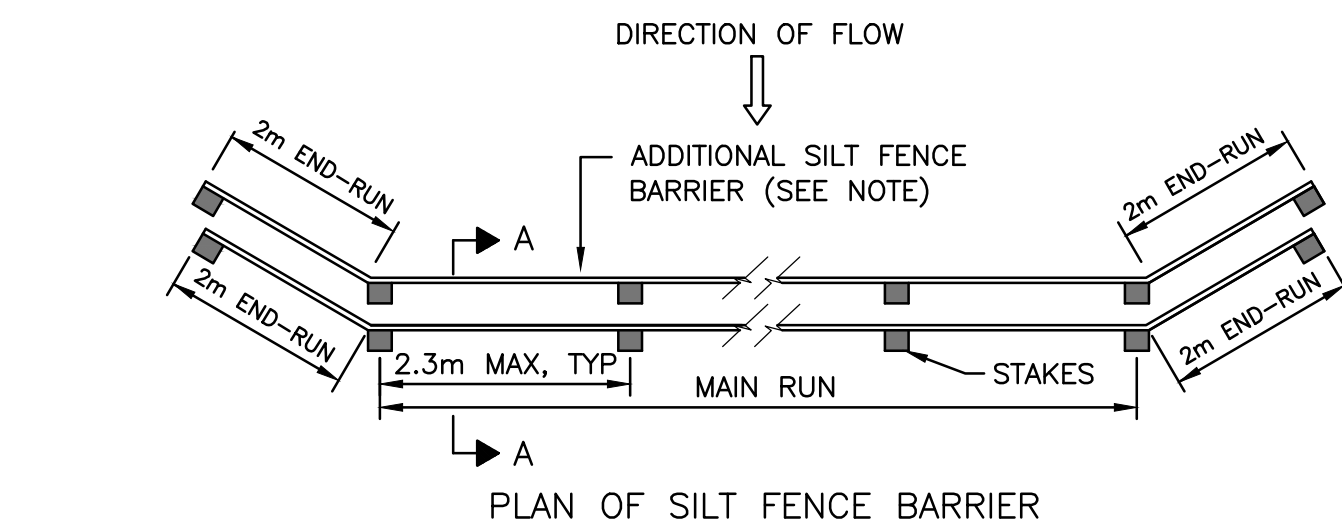


NOTE:
PLACEMENT OF SOIL COVER ON GCL WILL BE IN THE SAME DIRECTION AS PLACEMENT OF THE GCL AS PER MANUFACTURER'S PROCEDURES

DETAIL - LANDFILL COVER SYSTEM

NOT TO SCALE

6
05/07

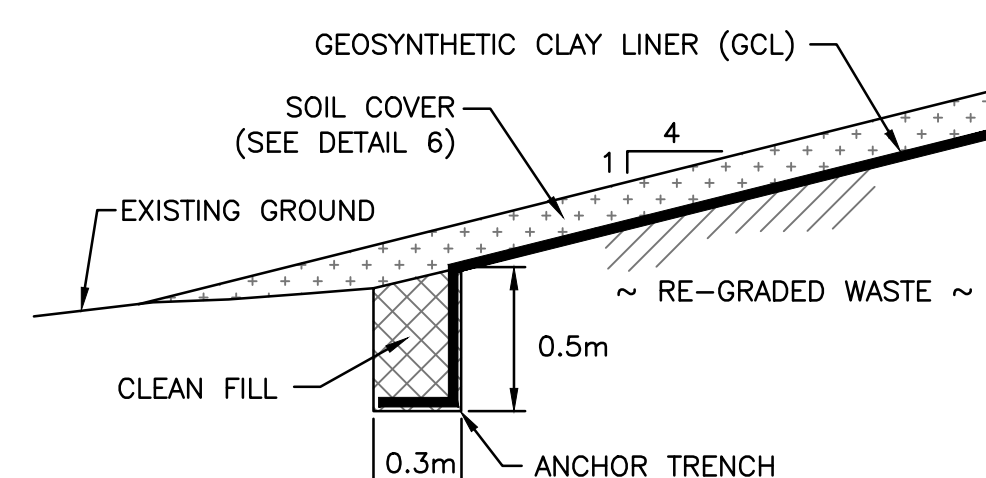


NOTE:
ADDITIONAL SILT FENCE BARRIERS (DOUBLE) INSTALLED IN LOCATIONS INDICATED ON DWG. C-03 OR AS DIRECTED BY THE ENGINEER.

**DETAIL - OPSD 219.110
SILT FENCE BARRIER**

NOT TO SCALE

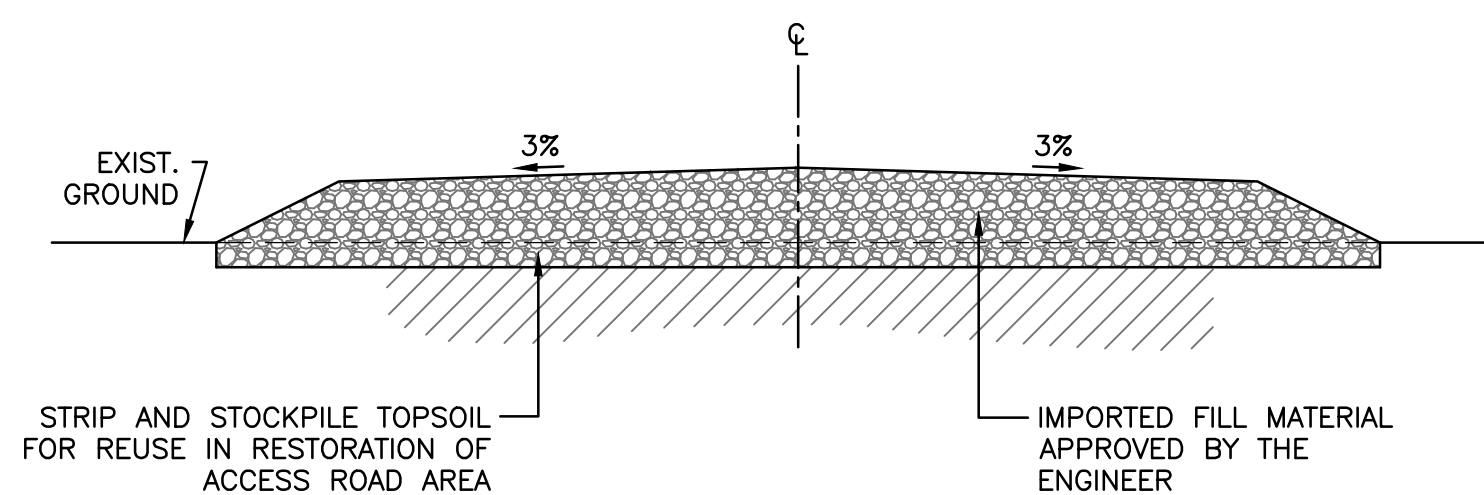
2
03/07



**DETAIL - TYPICAL GEOSYNTHETIC CLAY LINER ANCHOR
TRENCH DETAIL (NO PERIMETER DITCH)**

NOT TO SCALE

5
05/07



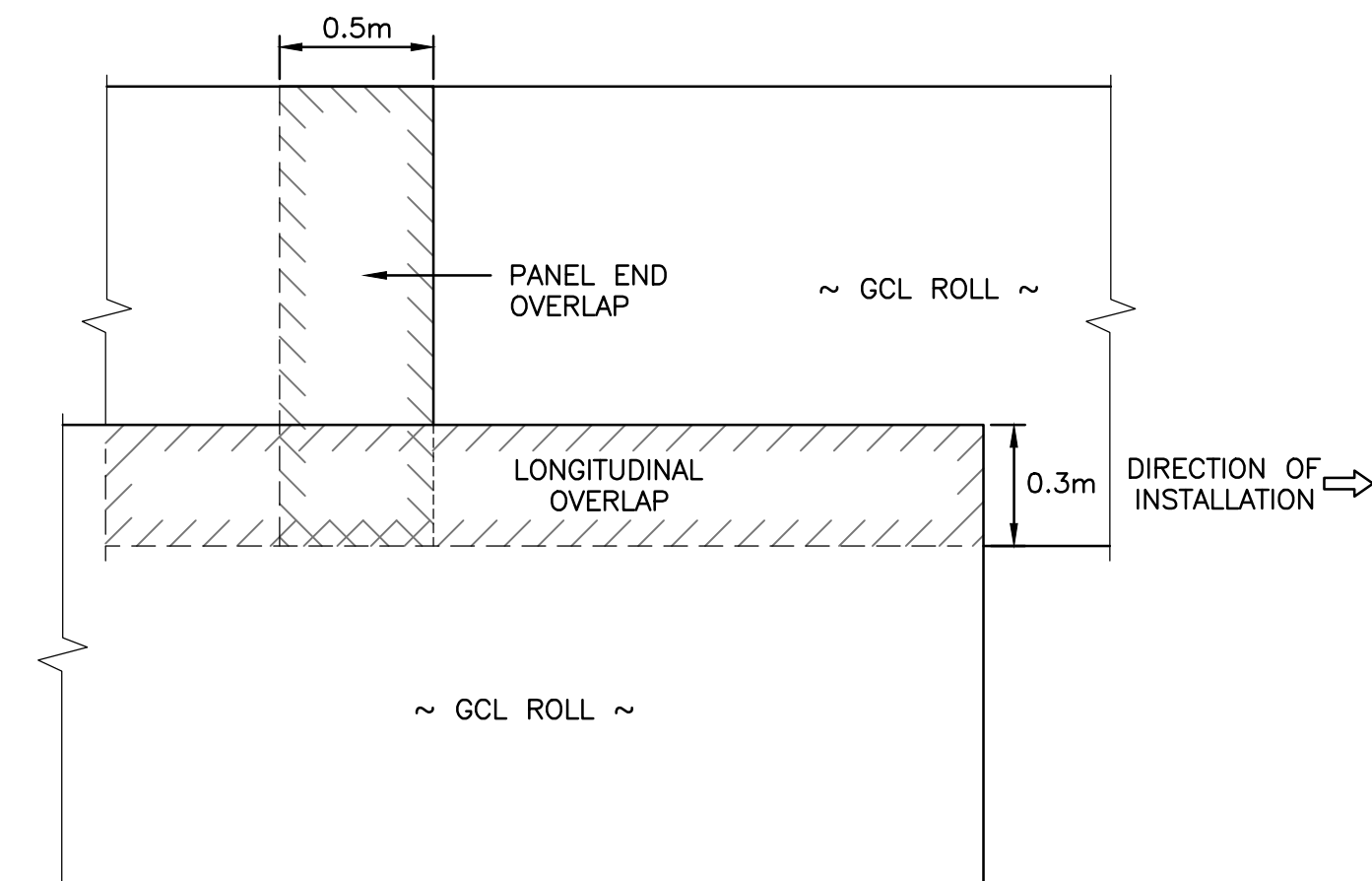
**DETAIL - TEMPORARY LANDFILL #1
CONSTRUCTION LAYDOWN
AREA ACCESS ROAD**

NOT TO SCALE

7
05/07

NOTES:

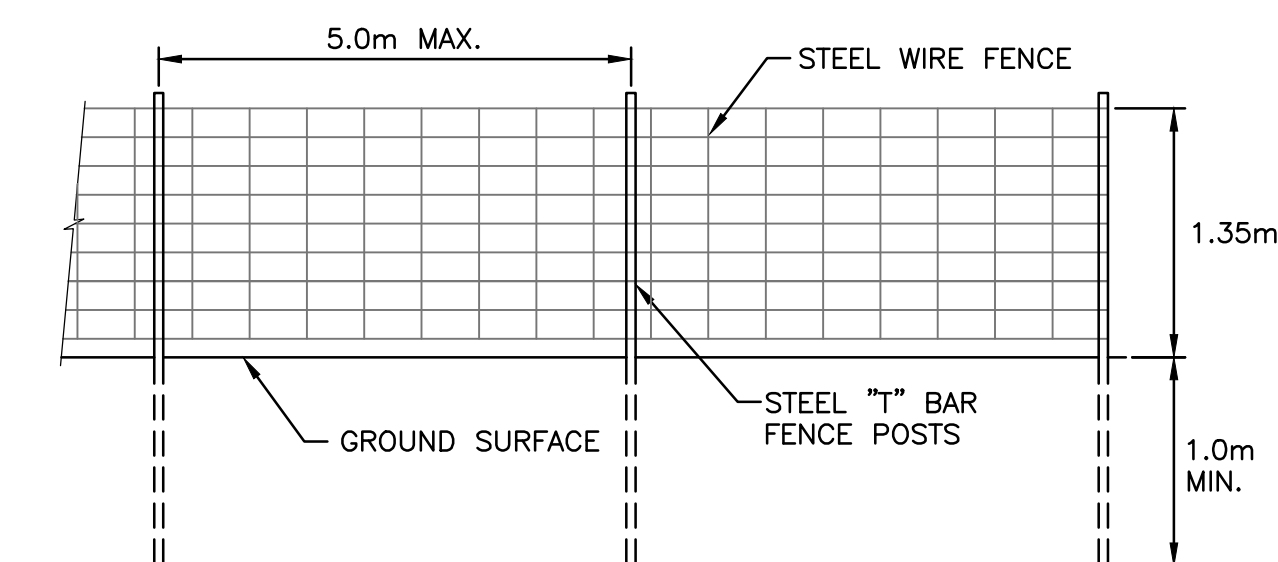
1. ALL DIMENSIONS ARE IN MILLIMETRES OR METRES UNLESS OTHERWISE SHOWN.



**DETAIL - TYPICAL GEOSYNTHETIC CLAY LINER
PANEL OVERLAPS**

NOT TO SCALE

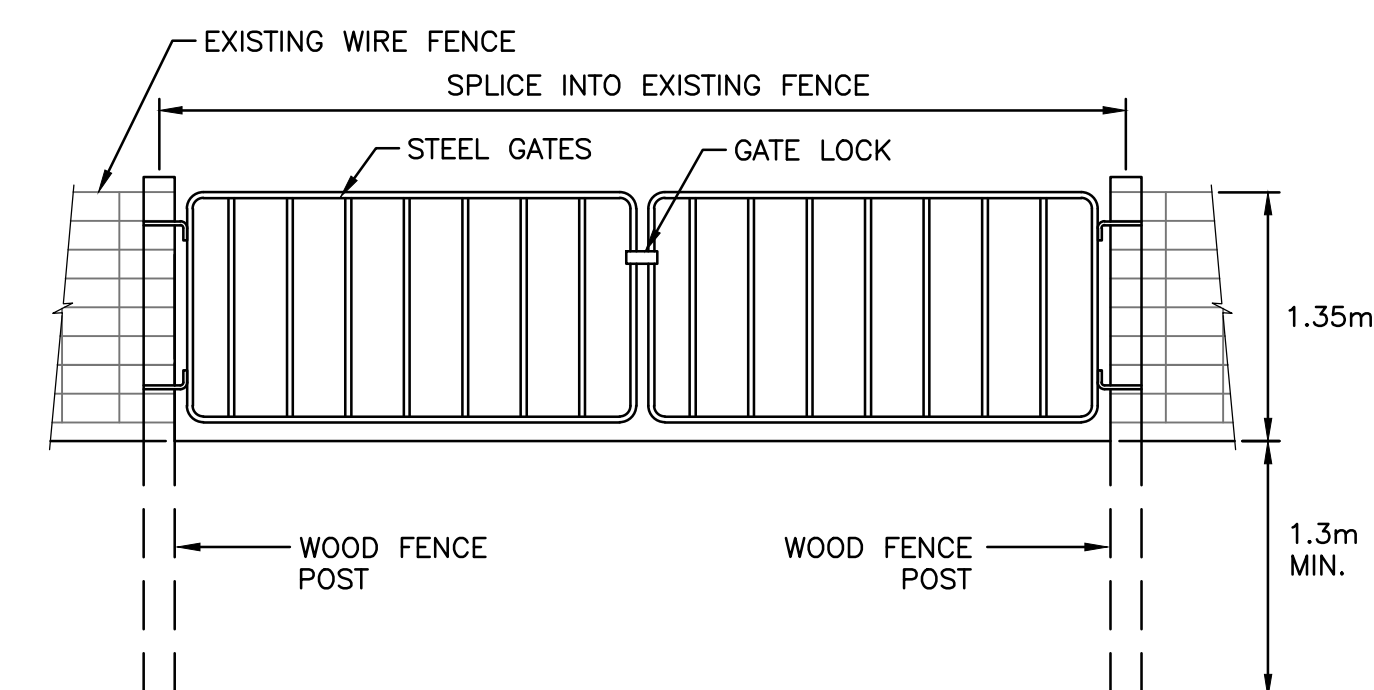
3
05/07



DETAIL - PERMANENT FENCE

NOT TO SCALE

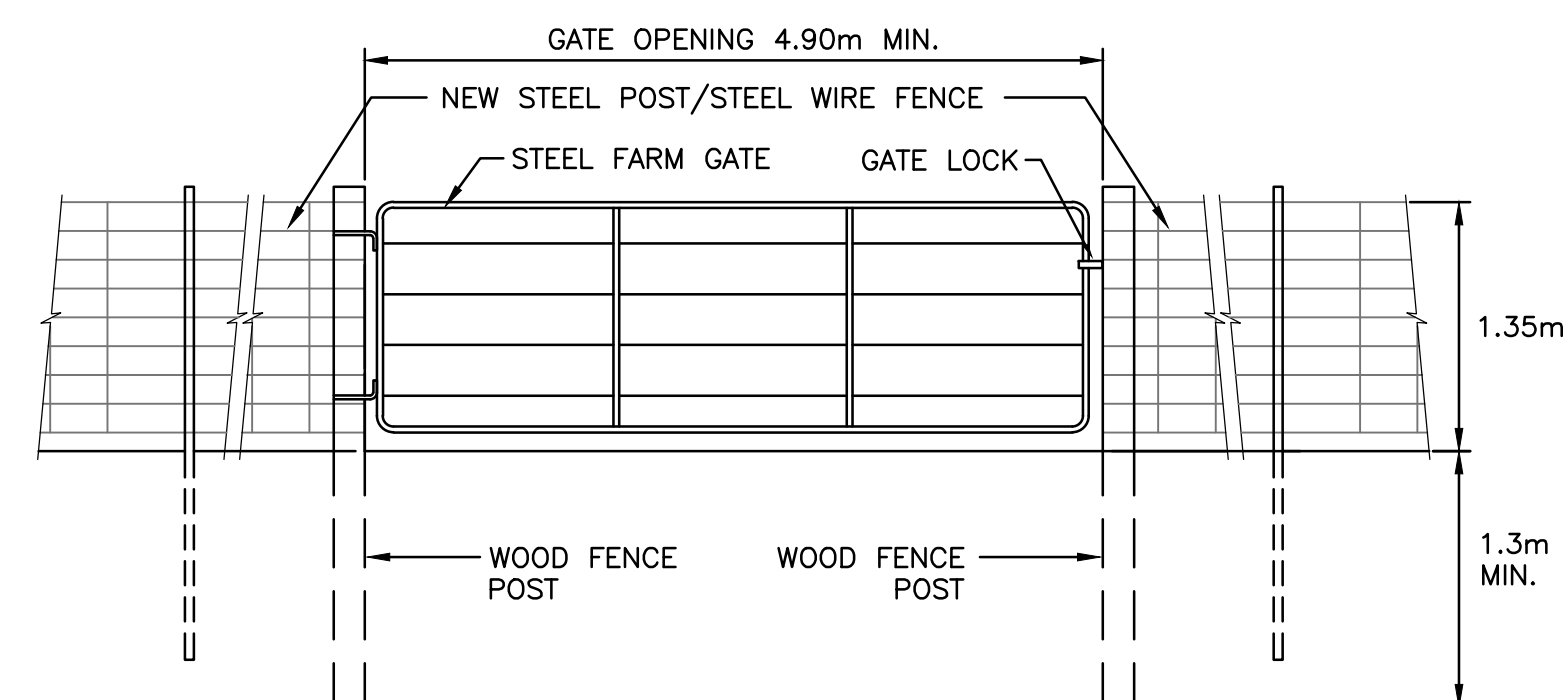
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03/07



DETAIL - TEMPORARY ACCESS ROAD GATE

NOT TO SCALE

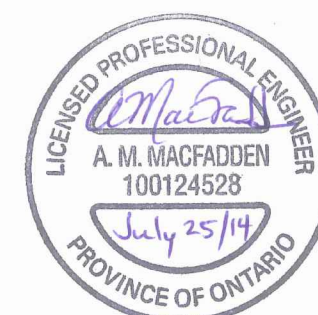
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03/07



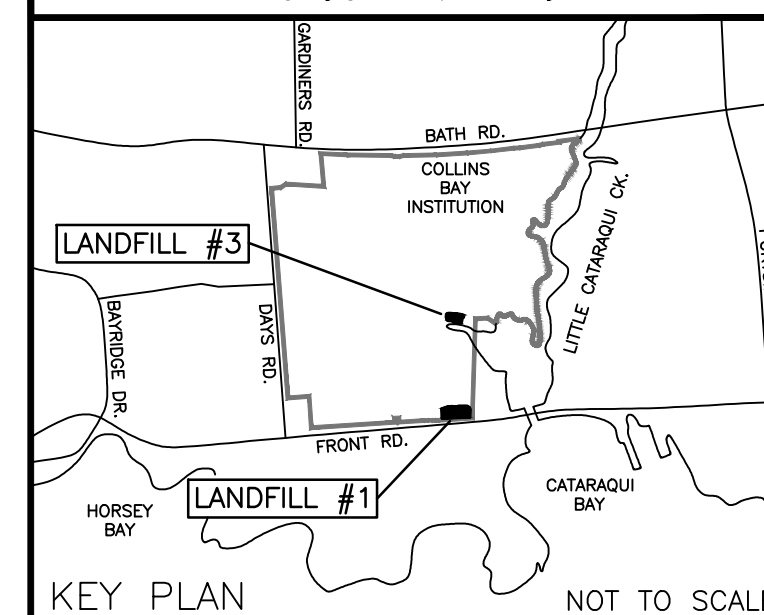
DETAIL - PERMANENT GATE

NOT TO SCALE

10
03/07



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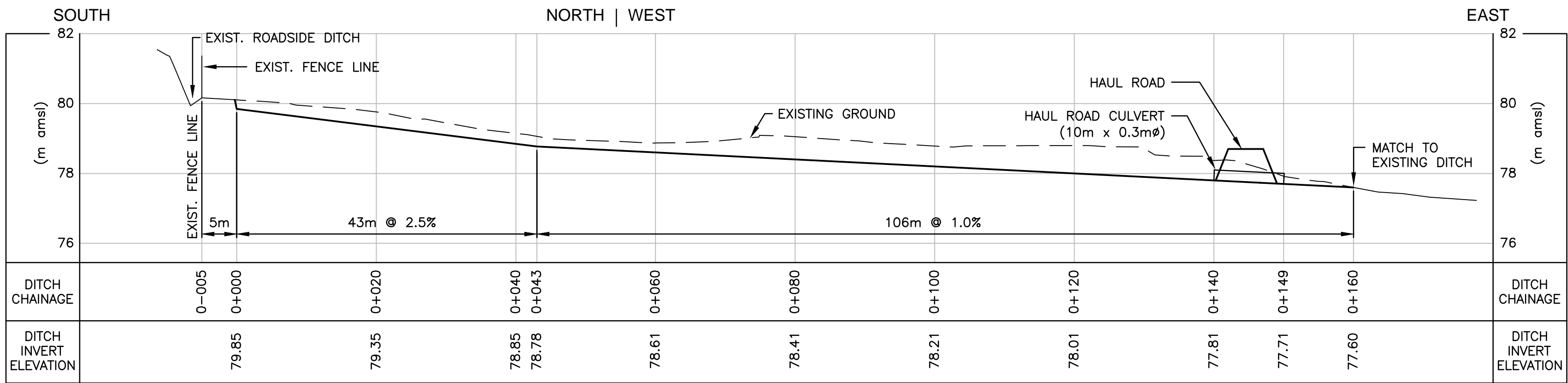
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R.058456

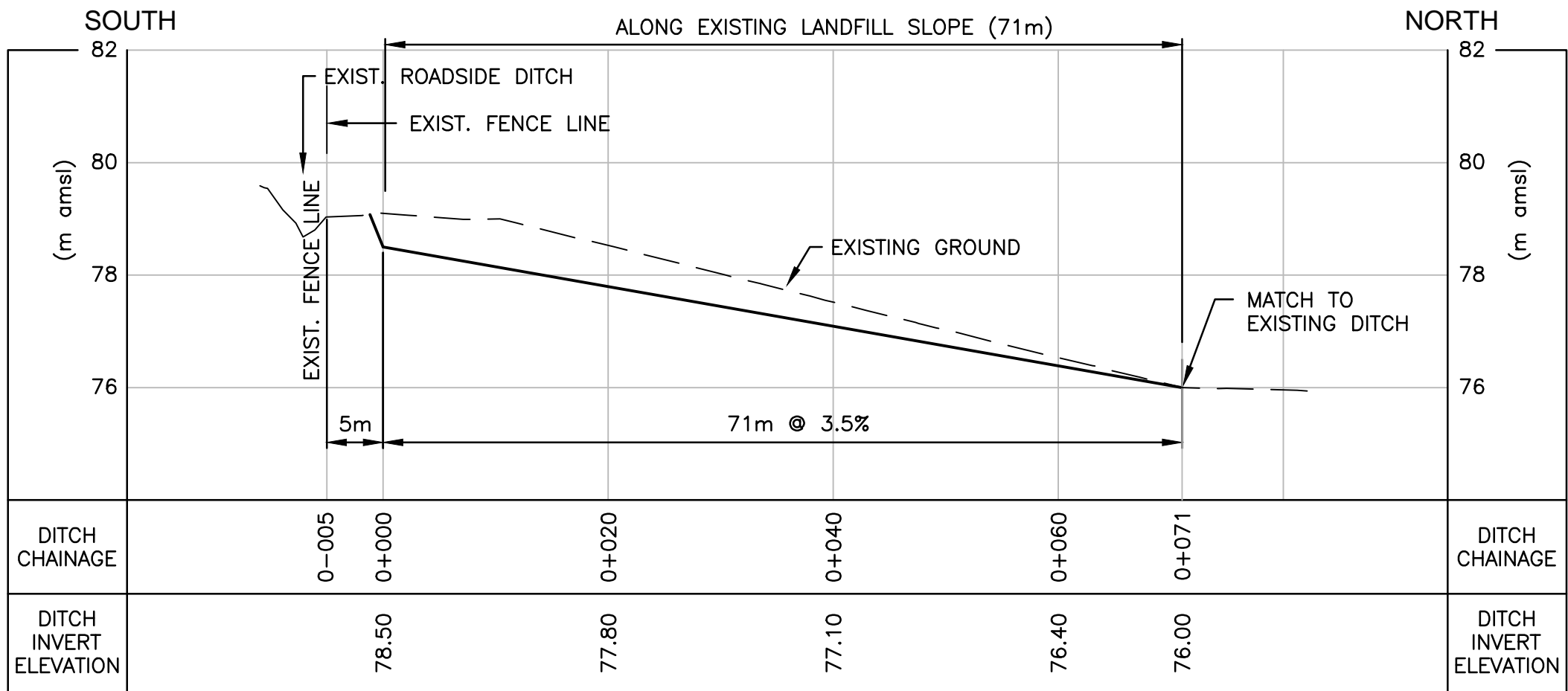
drawing no.
dessiné no.

C-07



WEST PERIMETER DITCH PROFILE

SCALE HOR. 1 : 500
VERT. 1 : 100



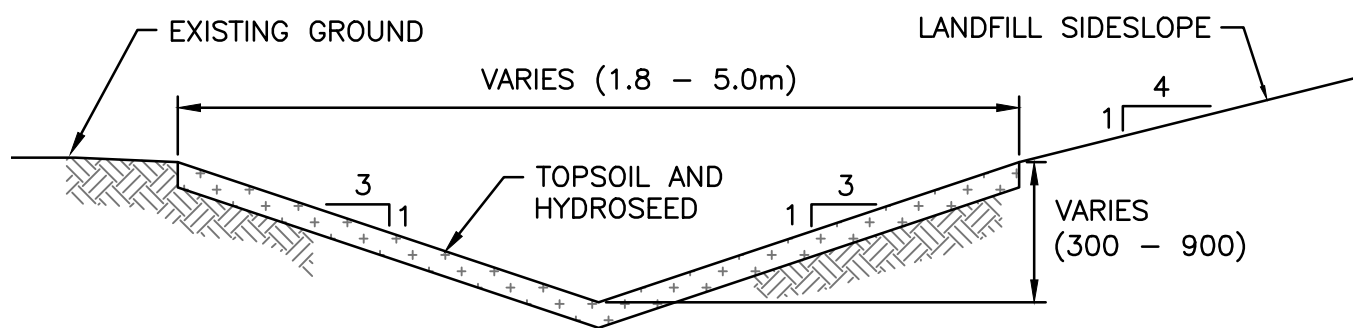
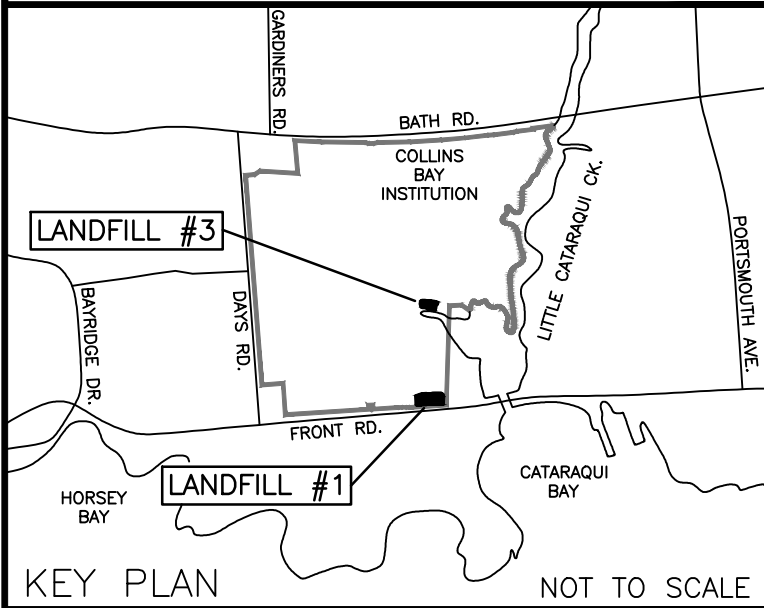
EAST PERIMETER DITCH PROFILE

SCALE HOR. 1 : 500
VERT. 1 : 100

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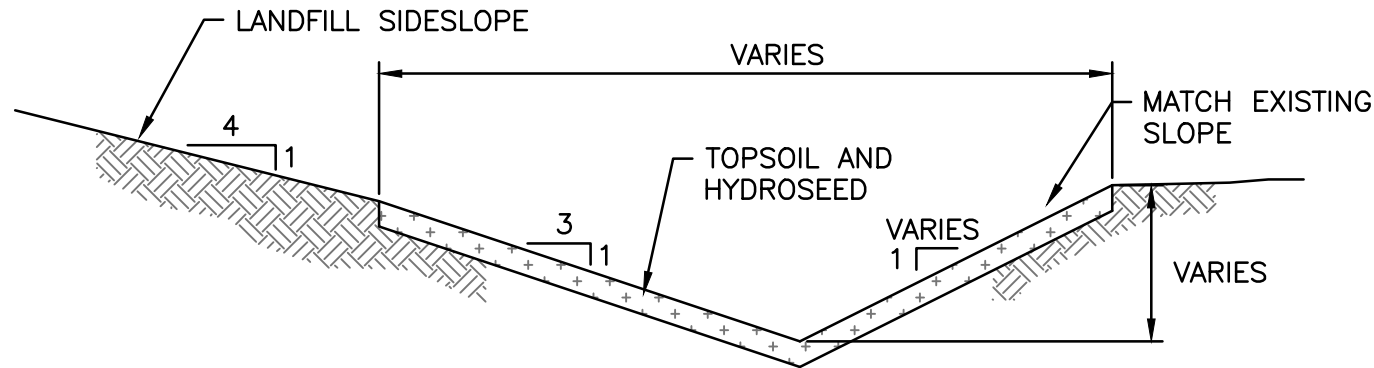
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DETAIL - TYPICAL WEST PERIMETER
DITCH SECTION

NOT TO SCALE

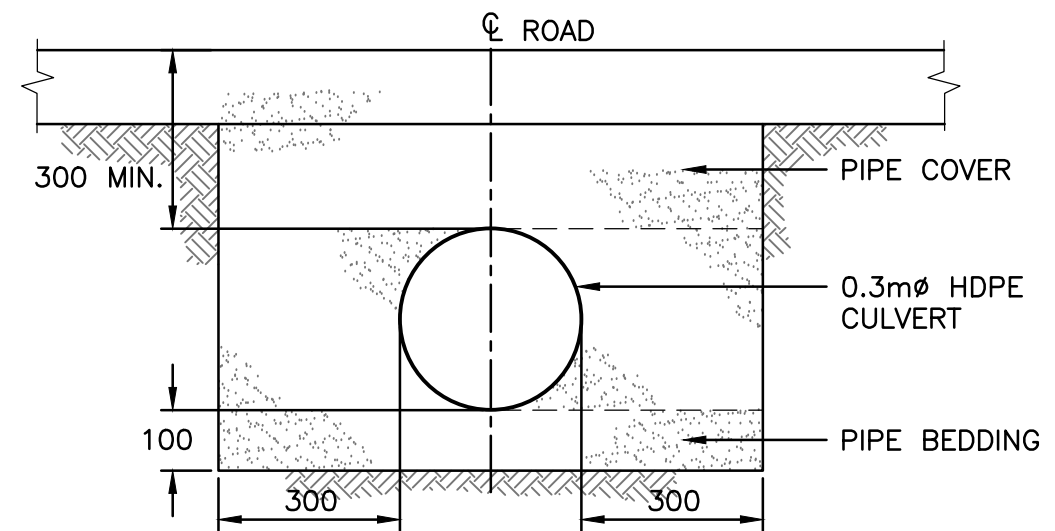
11
05/07



DETAIL - TYPICAL EAST PERIMETER
DITCH SECTION

NOT TO SCALE

12
05/07



DETAIL - TYPICAL ROAD
CULVERT SECTION

NOT TO SCALE

13
05/07

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**PERIMETER DITCH PROFILES
AND DETAILS**

drawn by
dessiné par DM

designed by
conçu par AM

approved by
approuvé par DD

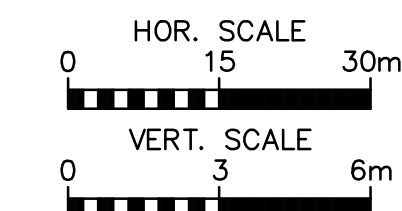
bid
offre AM project manager
administrateur de projets

project date
date du projet 2014-04-18

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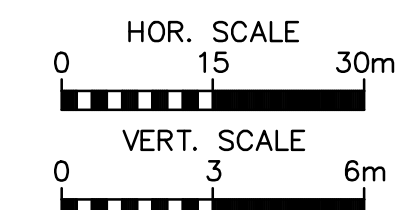
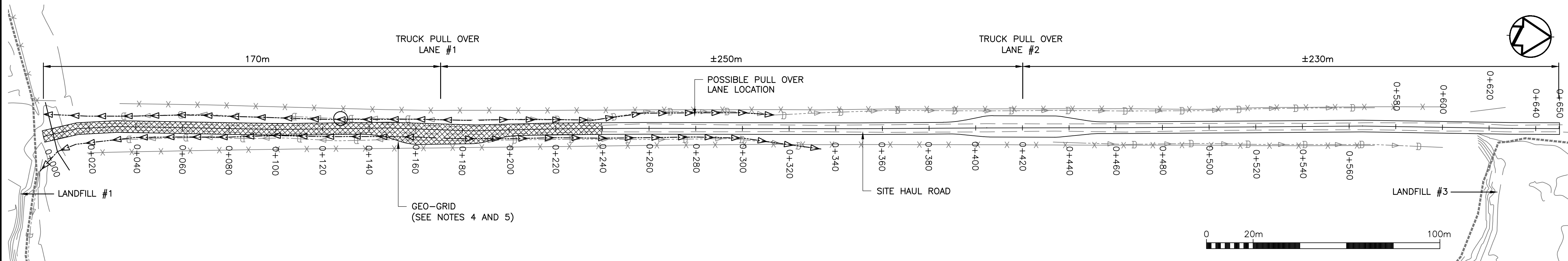
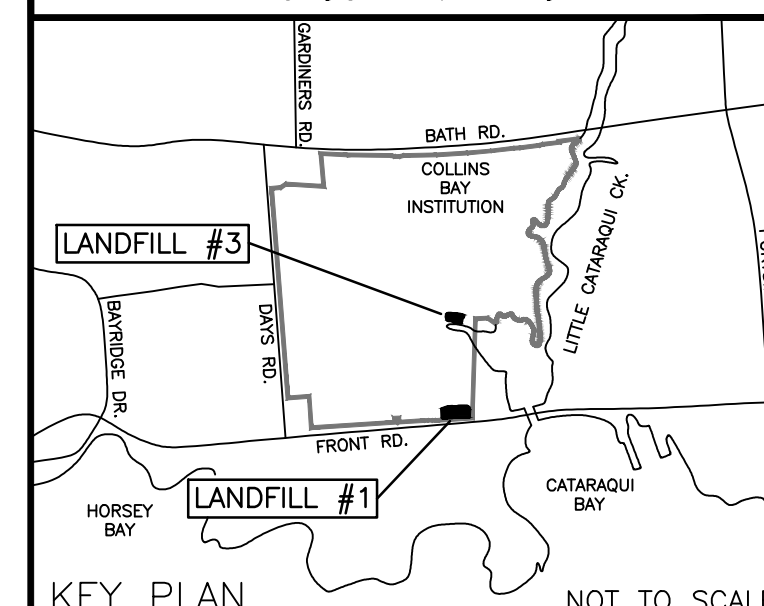
drawing no.
dessiné no. C-08





SCALE HOR. 1 : 750
VERT. 1 : 150

1. LOCATIONS OF PULL OVER LANES ARE APPROXIMATE AND MAY BE ADJUSTED AT THE TIME OF CONSTRUCTION.
2. PULL OVER LANES TO REMAIN IN PLACE AFTER COMPLETION OF CONSTRUCTION.
3. UPGRADES INCLUDE PLACEMENT OF 300mm LAYER OF GRANULAR 'A' OVER THE ENTIRE LENGTH OF THE ROADWAY.
4. PLACE GEO-GRID AS SHOWN PRIOR TO PLACEMENT OF GRANULAR 'A'.
5. PLACEMENT OF ADDITIONAL GEO-GRID MAY BE REQUIRED AT DIRECTION OF THE DEPARTMENTAL REPRESENTATIVE.
6. EXISTING ROAD TO BE STRIPPED, PROOF ROLLED AND SUB-GRADE RESHAPED PRIOR TO PLACEMENT OF GRANULAR MATERIAL.
7. TYPE 1 GRANULAR MATERIAL TO MEET MINISTRY OF ENVIRONMENT (MOE) TABLE 3 STANDARDS FOR COMMERCIAL/INDUSTRIAL LAND USE AND COARSE GRAIN SOIL TEXTURE AS DETERMINED BY LABORATORY ANALYTICAL RESULTS FOR SAMPLES SUBMITTED BY THE DEPARTMENTAL REPRESENTATIVE.



SCALE HOR. 1 : 750
VERT. 1 : 150

