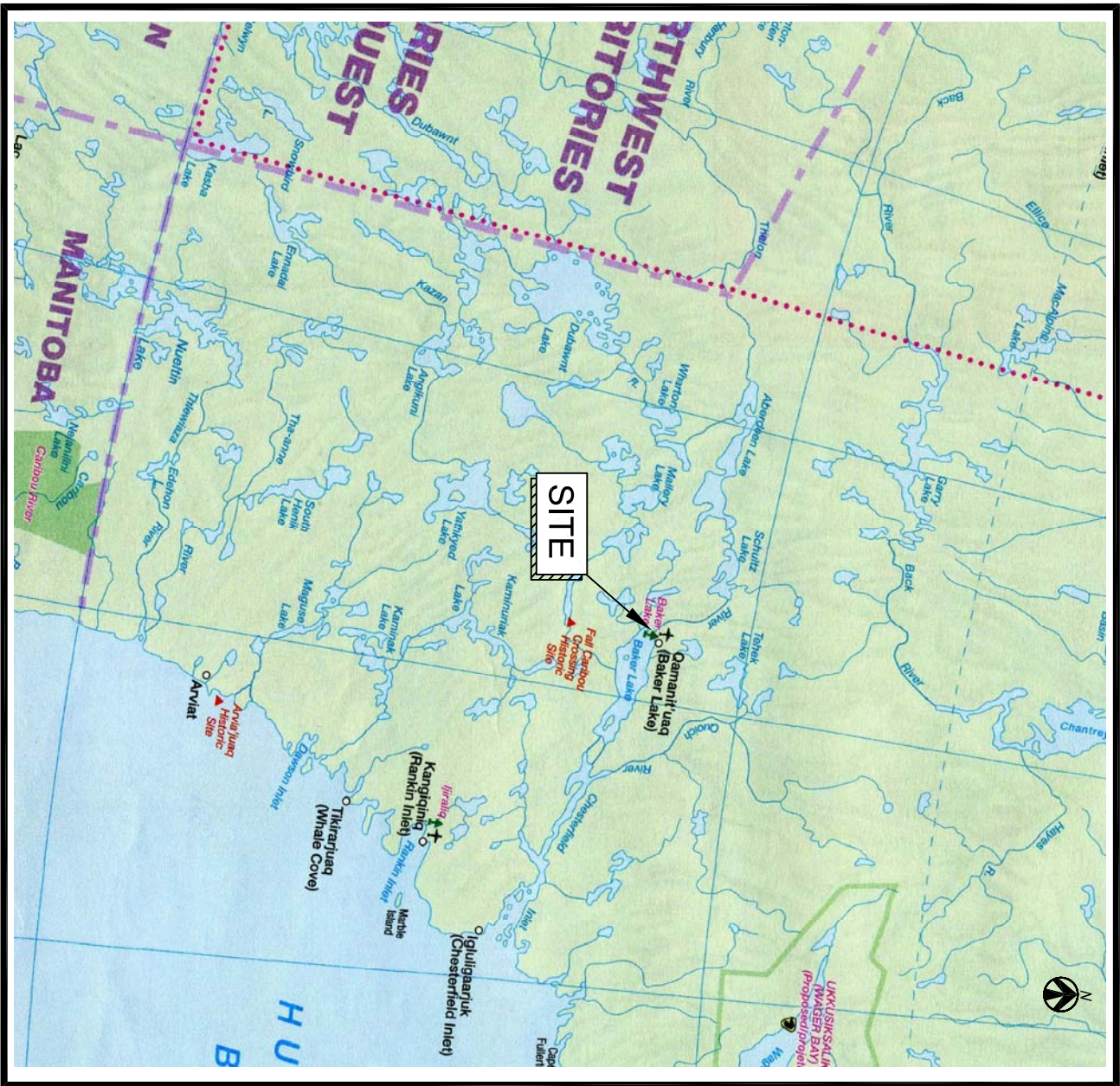




GOVERNMENT OF NUNAVUT  
DEPARTMENT OF COMMUNITY AND GOVERNMENT SERVICES  
BAKER LAKE SEWAGE SYSTEM IMPROVEMENTS  
QAMANI'TUAQ, NUNAVUT

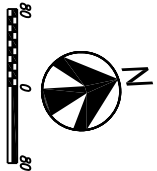
Issue for 100% Design  
May 15, 2009



- Drawing List*
- C-1 Site Plan Existing Conditions
  - C-2 Site Plan Sewage System Improvements
  - C-3 Truck Discharge & Holding Pond Layout
  - C-4 Type 1 Attenuation Berms Plan
  - C-5 Type 2 Lagoon Lake Attenuation Berms Plan
  - C-6 Type 2 Finger Lake Attenuation Berms Plan
  - C-7 Berm Cross Sections
  - C-8 Details

Location Map





DENOTES WASTEWATER  
FLOW DIRECTION

WILDLIFE EXCLUSION FENCE  
(BY OTHERS) TO BE  
INSTALLED BY JULY 2009

LAGOON LAKE

FINGER LAKE

WASTEWATER FLOW

HOLDING CELL

SOLID WASTE  
DISPOSAL SITE

SEWAGE DISCHARGE

SNP STATION P3

STN-7

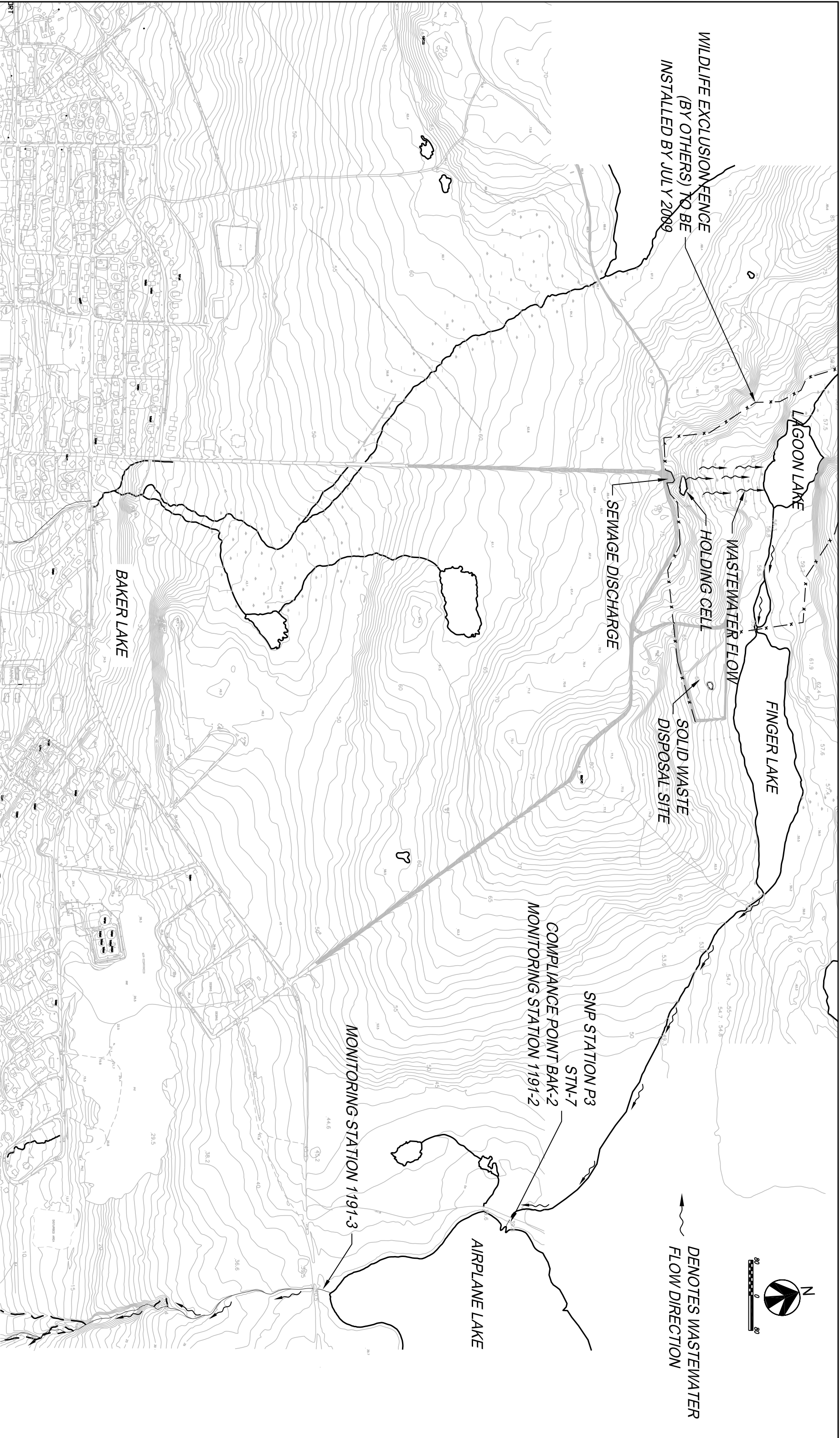
COMPLIANCE POINT BAK-2

MONITORING STATION 1191-2

AIRPLANE LAKE

MONITORING STATION 1191-3

BAKER LAKE



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| 4   | 5/15/09  | Issue for 100% Design |
|-----|----------|-----------------------|
| 3   | 3/10/09  | Issue for 50% Design  |
| 2   | 10/24/08 | Schematic Design      |
| Rev | Date     | Description           |

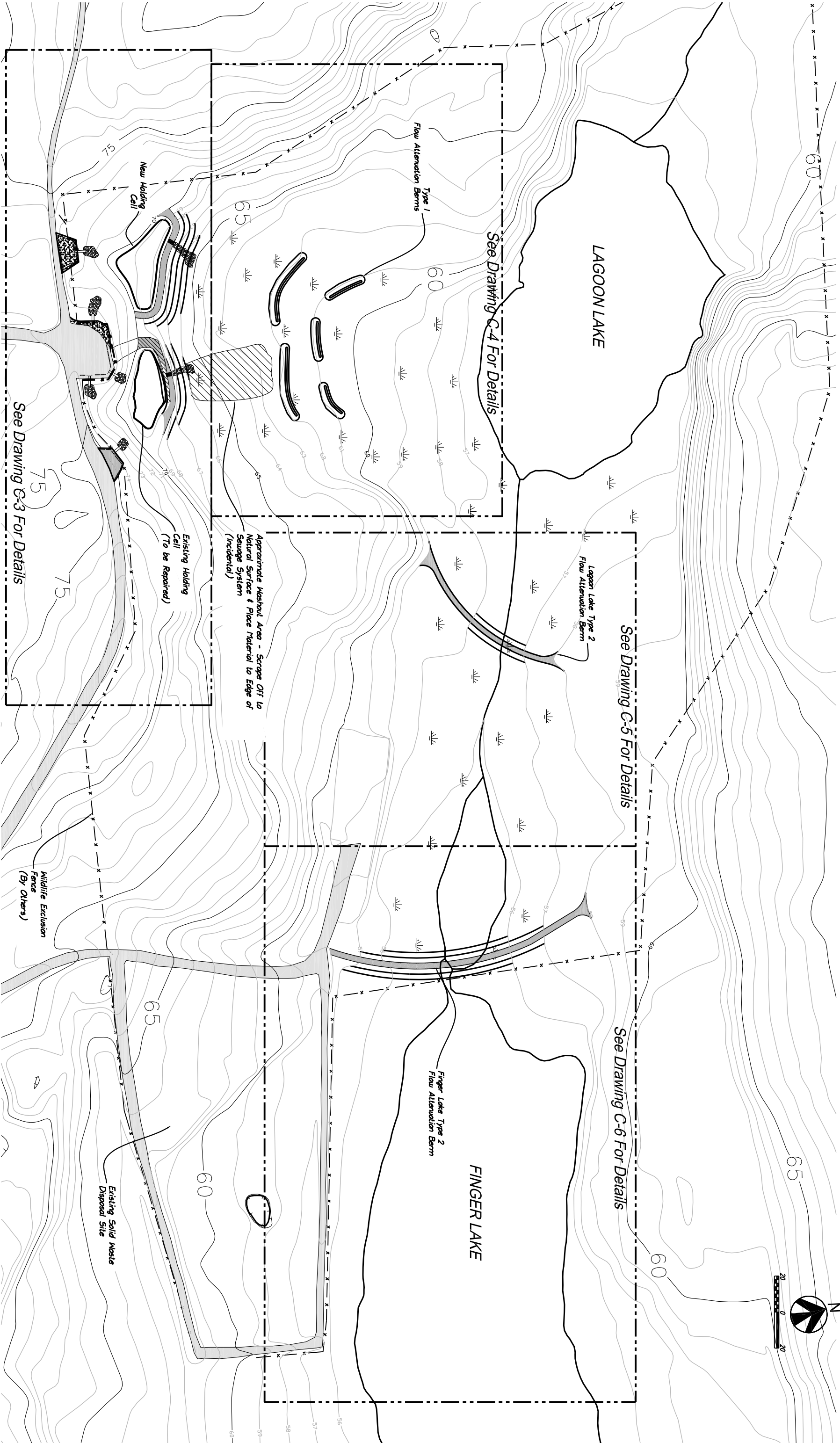
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BAKER LAKE SEWAGE SYSTEM  
IMPROVEMENTS  
QAMANTUAG, NUNAVUT

Site Plan  
Existing Conditions

C-1

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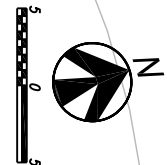
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| 3   | 3/10/09  | Issue for 50% Design   |
| 2   | 10/24/08 | Site/Conceptual Design |
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BAKER LAKE SEWAGE SYSTEM  
IMPROVEMENTS  
QAMAMITUAG, NUNAVUT

Site Plan  
Sewage System Improvements

C-2  
10152693-C002-C008.dwg

**NOTE:**  
Construct Holding Ponds in Phases so One (1) Cell is Always in Service.  
Pump Contents of Existing Holding Cell to New Holding Cell Prior to  
Repair Work.



Holding Cell Outlet Riprap 30 m<sup>2</sup> - 300mmØ  
See Detail on Sheet C-8  
Typical 2 Places

New Holding Cell Berm (72 m Long at Top)  
Top of Berm Elevation 70.0  
See Berm Cross Section A Detail On Sheet  
C-7

Repair Method One:  
Existing Berm on North End to be Excavated to  
Bedrock or Elevation 68.0 - Suitable Salvaged  
Material May be Used for Berm Construction

Repair Method Two:  
Widen Existing Berm on North End Then  
Excavate Interior - Suitable Salvaged Material  
May be Used for Berm Construction

Repaired Holding Cell Berm (50 m Long at  
Top)  
Top of Berm Elevation 69.0  
See Berm Cross Section A Detail On Sheet  
C-7

Wildlife Exclusion Fence  
(By Others)

Existing Holding Cell  
(To Be Repaired)

Outlet - Elevation 68.7  
See Detail on Sheet  
C-8

New Holding Cell

Outlet - Elevation 69.7  
See Detail on Sheet  
C-8

Traffic Barrier Slop Logs  
Typical - See Detail on  
Sheet C-8

2 Bollards - Typical 5 Places  
See Detail on Sheet C-8

15 m<sup>2</sup> Riprap -  
300mmØ  
Typical 5 Places

Furnish and install  
65 Meters of Wildlife  
Exclusion Fence

Furnish and install  
22 Meters of Wildlife  
Exclusion Fence  
(By Others)

Concrete Discharge Spillway  
Typical 5 Places  
See Detail on Sheet C-8

Existing Sewage Truck  
Discharge Area  
Cut Hole in Fence to Allow  
Spillway  
(Incidental)

Expand Sewage Truck  
Discharge Area with Gravel

Construct New Sewage  
Truck Discharge Area  
With Gravel

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|     |          |                       |
|-----|----------|-----------------------|
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| 2   | 10/24/08 | Schematic Design      |
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Truck Discharge & Holding Pond  
Layout

C-3



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White Bear Lake, MN 55127  
651-255-5050  
651-255-5050 (fax)



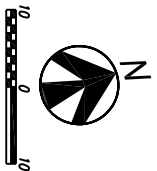
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| 3   | 3/10/09  | Issue for 50% Design  |
| 2   | 10/24/08 | Schematic Design      |
| Rev | Date     | Description           |

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BAKER LAKE SEWAGE SYSTEM  
IMPROVEMENTS  
QAMAMITUAG, NUNAVUT

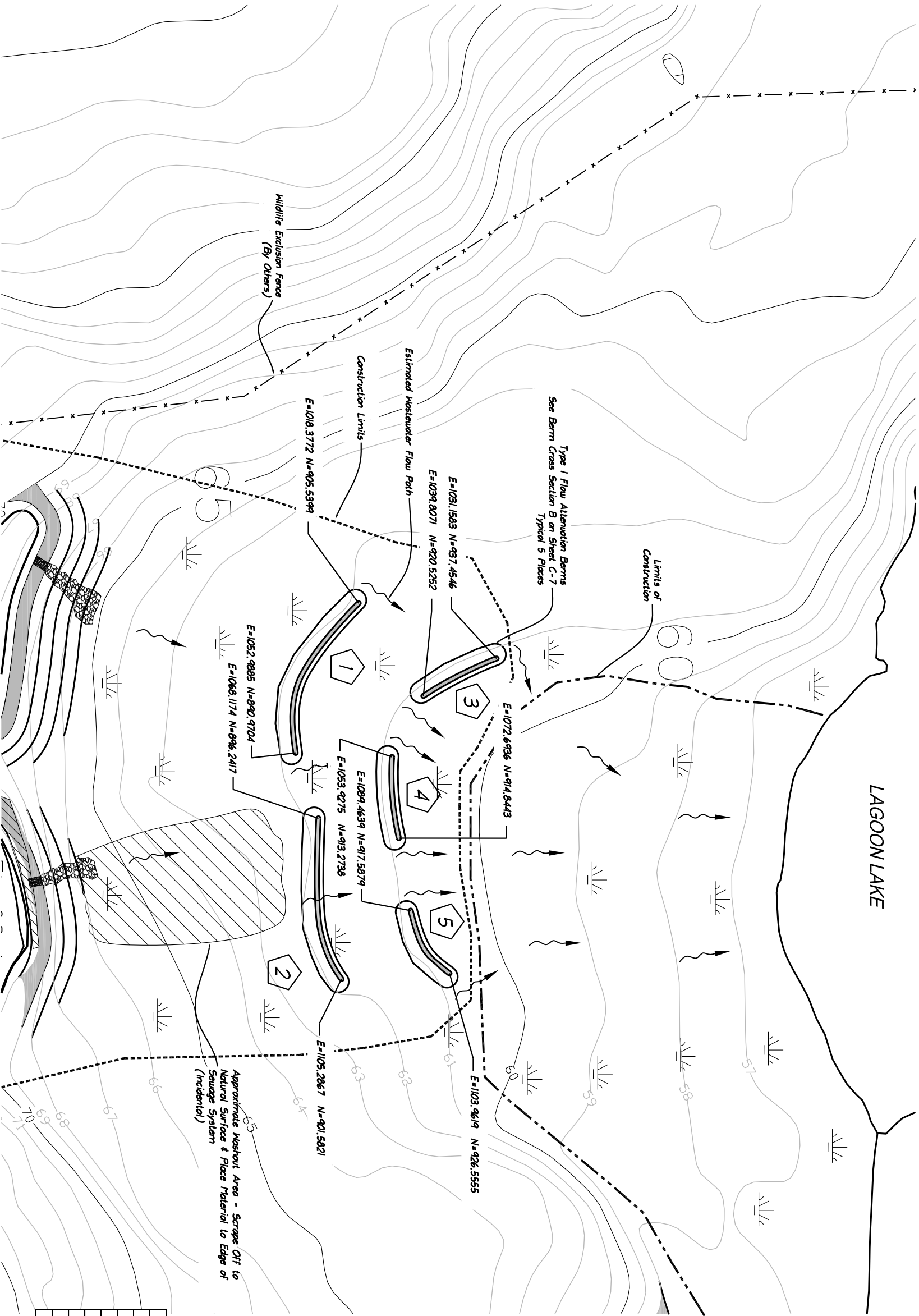
Truck Discharge & Holding Pond  
Layout

C-3  
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Notes:  
1. Contractor Shall Fill in Tire Ruts  
From Construction Activity Within  
Tundra Wetland System (Incidental)



| Berm Table               |               |                  |                    |                    |
|--------------------------|---------------|------------------|--------------------|--------------------|
| Berm                     | Top Elevation | Up Toe Elevation | Down Toe Elevation | Top of Berm Length |
| 1                        | 62.0          | 61.8             | 61.3               | 40.0               |
| 2                        | 62.0          | 61.8             | 61.3               | 40.0               |
| 3                        | 61.0          | 60.8             | 60.3               | 20.0               |
| 4                        | 61.0          | 60.8             | 60.3               | 20.0               |
| 5                        | 66.0          | 60.8             | 60.3               | 20.0               |
| All Elevations in Meters |               |                  |                    |                    |

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White Bear Lake, MN 55127  
651-255-5050  
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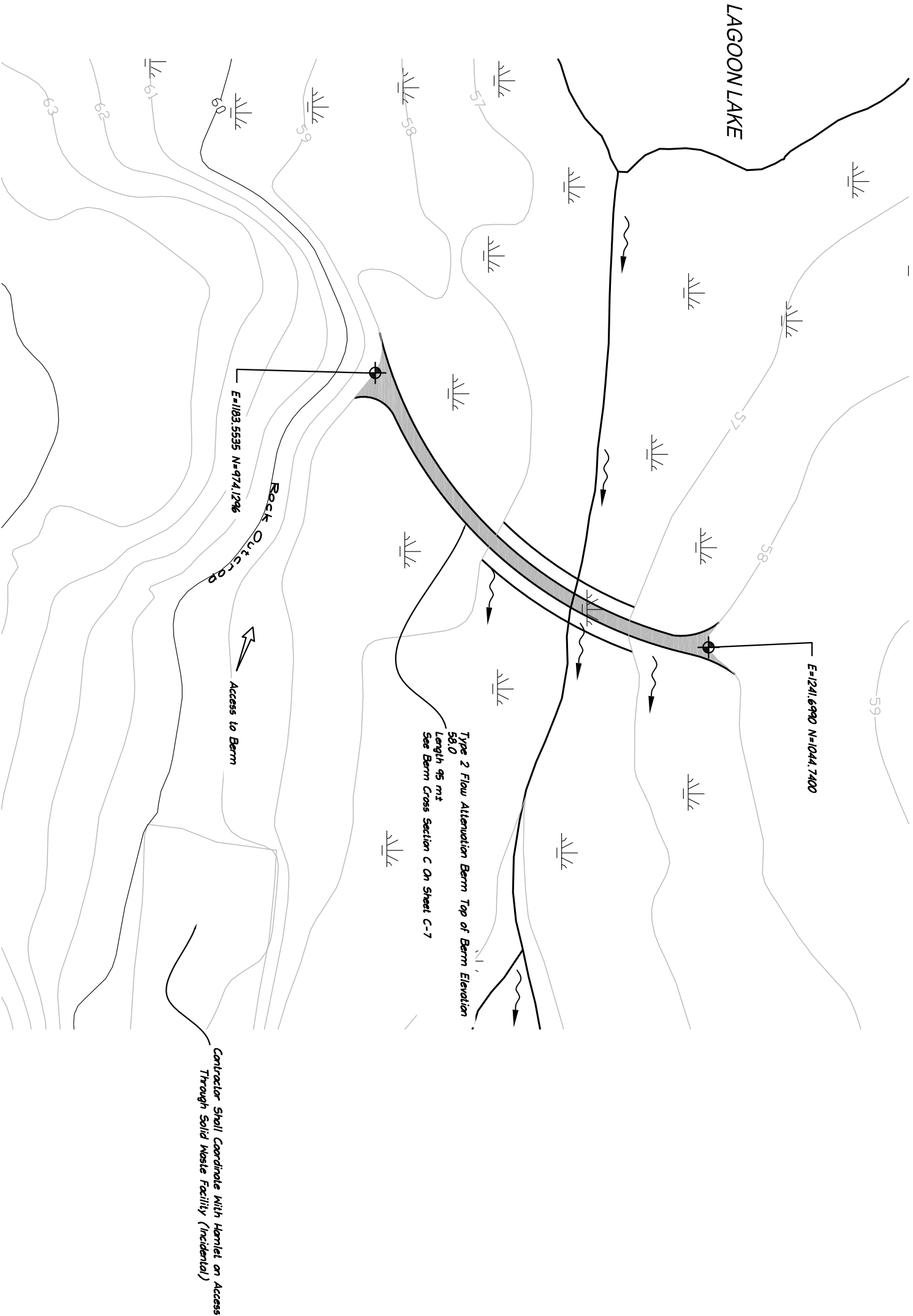
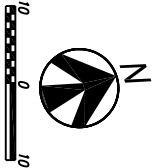
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| 2   | 10/24/08 | Schematic Design      |
| Rev | Date     | Description           |

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BAKER LAKE SEWAGE SYSTEM  
IMPROVEMENTS  
QAMAMITUAG, NUNAVUT

Type 1  
Flow Attenuation Berms Plan

C-4

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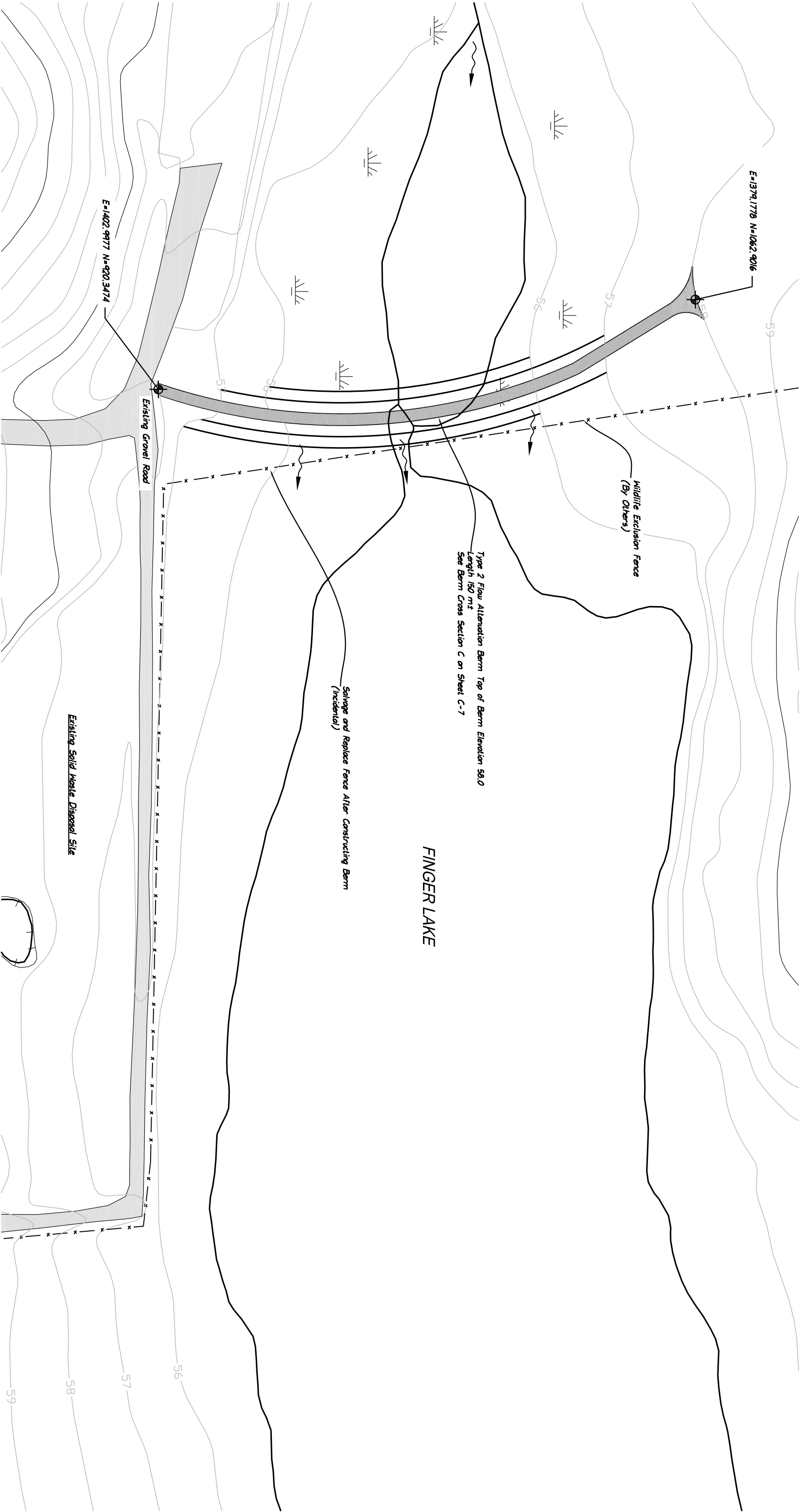
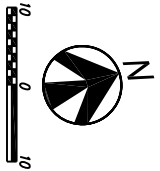


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| 4   | 5/15/09  | Issue for 100% Design |
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| 2   | 10/24/08 | Schematic Design      |
| Rev | Date     | Description           |

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Type 2 Lagoon Lake  
Flow Attenuation Berms Plan

C-5  
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| 3   | 3/10/09  | Issue for 50% Design  |
| 2   | 10/24/08 | Schematic Design      |
| Rev | Date     | Description           |

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Type 2 Finger Lake  
Flow Attenuation Berms Plan

C-6



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White Bear Lake, MN 55127  
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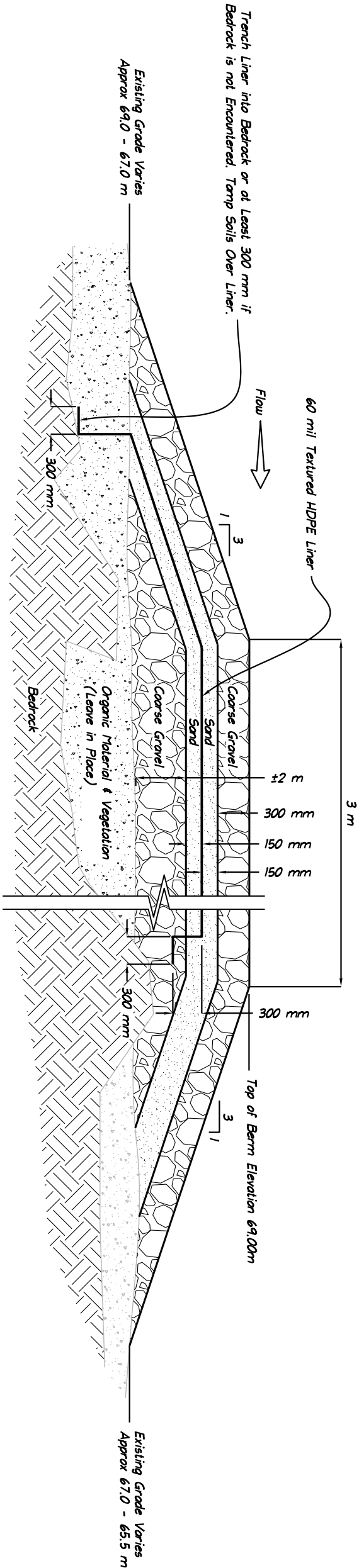
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| 3   | 3/10/09  | Issue for 50% Design  |
| 2   | 10/24/08 | Schematic Design      |
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BAKER LAKE SEWAGE SYSTEM  
IMPROVEMENTS  
QAMAMITUAG, NUNAVUT

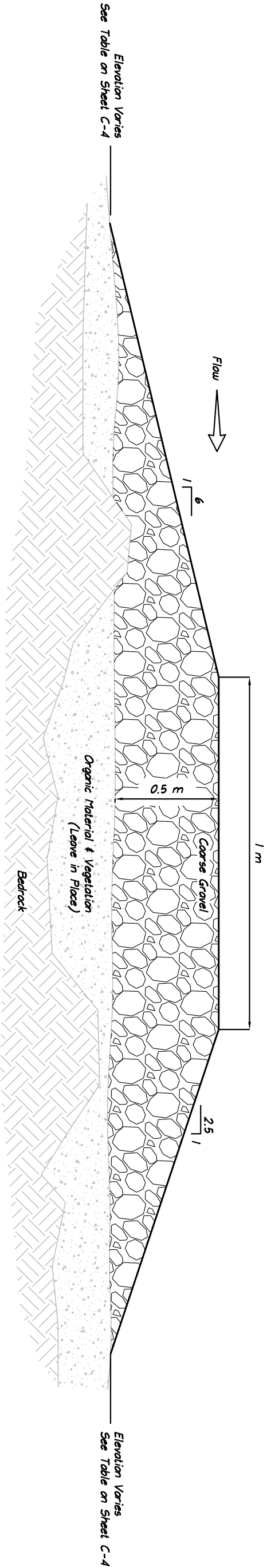
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Flow Attenuation Berms Plan

C-6

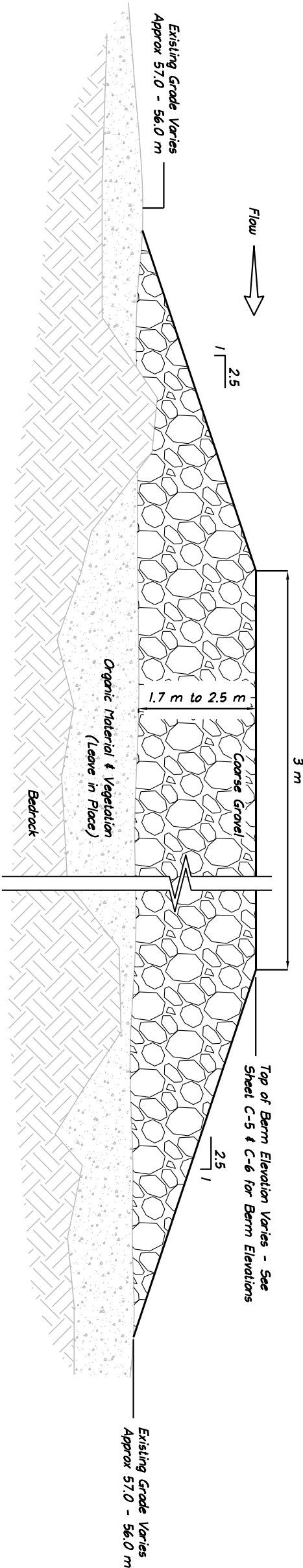
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Holding Cell Berm Cross Section - A



Typical Flow Attenuation Berm (Type 1) Cross Section - B



Typical Flow Attenuation Berm (Type 2) Cross Section - C

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