CITY OF PETERBOROUGH

Stormwater Asset Operations Report

CLI-ECA# 145-S701 | 2025 Reporting Year

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Executive Summary

This report covers the annual inspection, maintenance, and operational performance of the City of Peterborough's Municipal Stormwater Management System for the period January 1 to December 31, 2025. It is submitted in accordance with Schedule E of CLI-ECA# 145-S701.

System Overview

The City of Peterborough's Municipal Stormwater Management System comprises 17 wet stormwater management facilities (SWMFs), 10 dry ponds, 32 oil and grit separators (OGS), and Low Impact Development (LID) features at Bethune Street, Moorecraig/Roper, Cleantech Commons, Brealey Drive, and Knights of Columbus Park. All facilities are operated and maintained in accordance with ECA# 145-S701. Bathymetric sediment surveys of all 17 wet SWMFs were completed in 2025 by AHYDTECH.

17 Wet Ponds inspected	10 Dry Ponds inspected	32 OGS Units inspected	17 Spill Events recorded
50 Outfalls inspected	78 Critical Inlets inspected	95,719 m Storm Sewers flushed & CCTV	6 CF Items outstanding

Key Accomplishments in 2025

Bathymetric surveys completed at all 17 wet SWMFs (AHYDTECH, 2025). Loggerhead 2 forebay cleanout completed, resolving CF-2024-03. Chemong Park Plaza sediment cleanout completed, resolving CF-2024-02. Cedargrove warranty items completed, resolving CF-2024-04. LID GIS inspection platform operationalized — Bethune Street and Moorecraig/Roper inspected under new platform for first time, resolving CF-2024-11. Steinberg Court cross-connection resolved by developer, resolving CF-2024-14. Armour Road infiltration chamber cleaned, resolving CF-2024-13.

Facilities Requiring Priority Action

FACILITY	ISSUE	PRIORITY
Water Street #302989	Maintenance trigger volume at 93.6% — sediment cleanout required; remaining vol below trigger threshold	ACTION
Fairview Estates #168950	Design volume capacity at 28.68% — chronic deficit; major capital retrofit required	ACTION
Raymond #260461	Maintenance trigger capacity at 72.9%; forebay berm restoration and dead tree removal required	ACTION
College Park #168275	Forebay depth capacity at 13.3% of design depth — approaching critical threshold	MONITOR

Towerhill North #190906	Forebay depth capacity at 51.4%; severe phragmites infestation (95% invasive coverage)	MONITOR

Monitoring Plan Status

Monitoring Program not yet commenced. Program to commence in 2026 driven by the Watershed Plan. No monitoring data is available for the 2025 reporting period.

See Section 10.0

1.0 Stormwater Management Facilities

Stormwater Management Facilities (SWMFs) protect water quality and reduce flooding by treating urban runoff before it reaches natural watercourses.

Pond Types Within the City's System

TYPE	DESCRIPTION
Wet Pond	Maintains a permanent water level; provides both water quality treatment and flood control by detaining and gradually releasing runoff.
Dry Pond	Remains dry between storm events; primarily serves flood control by temporarily storing and slowly releasing excess stormwater.

Alternative and Supplementary Treatment

METHOD	DESCRIPTION
Oil & Grit Separator (OGS)	Underground structures engineered to trap sediment and separate oil and grease from stormwater, typically installed where space does not permit a pond.
Low Impact Development (LID)	Bioretention cells, infiltration chambers, planter boxes, and permeable pavement that mimic natural infiltration processes to manage runoff at source.

1.1 Reporting Requirements

This report fulfils the annual reporting requirement of the City's CLI-ECA, issued by MECP as ECA# 145-S701, per Schedule E, Condition 5.2.

The following mandatory content areas are addressed:

- Annual inspection and maintenance program, with facility-level performance and maintenance findings
- Summary of operating problems, complaints, and corrective actions
- Summary of all spills and abnormal discharge events
- Description of Alterations to the Authorized System, including any posing a Significant Drinking Water Threat
- Status of corrective actions from prior reporting years

> **Monitoring Note:** Monitoring Program to commence in 2026 driven by the Watershed Plan

2.0 End of Pipe (Pond) Inspection and Maintenance Program

Sediment accumulation is the primary maintenance driver for stormwater management ponds. The City conducts bathymetric sediment surveys of all wet facilities on a 3-year cycle. Facility performance thresholds are based on water quality storage requirements from the MECP Stormwater Management Planning and Design Manual.

Performance Indicators

The following indicators are used throughout this section. Colour-coded status cells are applied consistently in all pond summary and detail tables.

INDICATOR	CALCULATION	THRESHOLDS
Vol. Capacity (Maintenance)	Remaining volume ÷ Maintenance Trigger Volume	ACTION < 100% | MONITOR 100–110% | NO ACTION ≥ 110%
Vol. Capacity (Design)	Remaining volume ÷ ECA Permanent Pool Volume	N/A
Forebay Depth Capacity	Surveyed forebay depth ÷ design forebay depth	ACTION < 40% | MONITOR 40–60% | NO ACTION > 60%

● ACTION — Maintenance required	◐ MONITOR — Approaching threshold	○ NO ACTION — Within acceptable range

2.1 Wet Pond Maintenance Requirements

All assumed wet ponds were visually inspected in 2025 using the City's GIS-based Inspection and Maintenance application.

> **Data Reliability:** The City retained AHYDTECH to complete bathymetric sediment surveys of all wet stormwater management facilities in 2025. Survey results have been received and are incorporated in the individual pond summaries in Section 2.2. Note: the reliability of the AHYDTECH survey data is questionable. However another round of sediment surveys is planned for 2027.

Detailed data for each facility is provided in Section 2.2. Facilities requiring action are shown in red.

FACILITY	REMAINING VOL (m^3)	SEDIMENT VOL (m^3)	MAINT. TRIGGER VOL (m^3)	VOL CAP MAINT	FOREBAY DEPTH CAP
Water Street	3,692 m^3	1,302 m^3	3,943 m^3	● ACTION — 93.6%	○ NO ACTION — 77.1%
Heritage Park	11,568 m^3	2,567 m^3	4,006 m^3	○ NO ACTION — 288.8%	○ NO ACTION — 66.7%

FACILITY	REMAINING VOL (m³)	SEDIMENT VOL (m³)	MAINT. TRIGGER VOL (m³)	VOL CAP MAINT	FOREBAY DEPTH CAP
Cunningham	2,807 m³	393 m³	2,343 m³	○ NO ACTION — 119.8%	○ NO ACTION — 140.0%
Towerhill North	7,238 m³	2,279 m³	2,185 m³	○ NO ACTION — 331.3%	◑ MONITOR — 51.4%
Chemong Park Plaza	2,215 m³	—	396 m³	○ NO ACTION — 559.3%	○ NO ACTION — 100.0%
Towerhill South	3,214 m³	908 m³	882 m³	○ NO ACTION — 364.4%	○ NO ACTION — 103.7%
Foxmeadow	408 m³	173 m³	291 m³	○ NO ACTION — 140.2%	○ NO ACTION — 180.0%
Meadows	1,643 m³	657 m³	287 m³	○ NO ACTION — 572.5%	○ NO ACTION — 488.0%
Fairview Estates	1,414 m³	871 m³	3,374 m³	● ACTION — 41.9%	○ NO ACTION — 110.0%
Loggerhead 2	5,064 m³	1,000 m³	926 m³	○ NO ACTION — 546.9%	○ NO ACTION — 120.0%
Loggerhead 1	4,775 m³	2,319 m³	3,608 m³	○ NO ACTION — 132.3%	○ NO ACTION — 114.0%
Cedargrove	6,819 m³	729 m³	5,476 m³	○ NO ACTION — 124.5%	○ NO ACTION — 89.5%
Wentworth	674 m³	427 m³	317 m³	○ NO ACTION — 212.6%	○ NO ACTION — 80.0%
College Park	712 m³	764 m³	—	—	● ACTION — 13.3%
Major Bennett	4,646 m³	2,237 m³	4,116 m³	○ NO ACTION — 112.9%	○ NO ACTION — 108.3%
Jackson Meadows	4,873 m³	1,204 m³	3,806 m³	○ NO ACTION — 128.0%	—
Raymond	191 m³	200 m³	262 m³	● ACTION — 72.9%	○ NO ACTION — 230.0%

2.2 Wet Pond Annual Inspections / Summaries

Annual inspections are conducted using the City's GIS application with a standardized field checklist. Full inspection records are available through the GIS application on request.

Water Street #302989

INSPECTION DATE	WEATHER
April 30, 2025	Sunny

VOLUME CAPACITY (MAINTENANCE)	VOLUME CAPACITY (DESIGN)	FOREBAY DEPTH CAPACITY
● ACTION — 93.6%	**65.3%**	○ **NO ACTION — 77.1%**

2025 SURVEY DATA		DESIGN PARAMETERS	
As-built Hard Bottom Volume	4,994 m³	Treatment Level	Level 1 Enhanced
Estimated Sediment Volume	1,302 m³	ECA Permanent Pool Volume	5,652 m³
Remaining Storage Volume	3,692 m³	Required PP Volume	5,507 m³
Forebay Design Depth	2.1 m	Maintenance Trigger Volume	3,943 m³
Surveyed Forebay Depth	1.62 m		
Survey Year	2025		
Service Area	51.4 ha		
Service Area — % Impervious	37.7%		

Observations: Water: Cloudy. Vegetation (Fair): Aquatic veg along outside and across forebay berm; Large tree down by inlet, misc trees down. Likely beavers in pond.

Maintenance Recommendations / Actions: Remove fallen trees/debris

Outstanding Actions: Forebay cleanout required depth capacity approaching 50% threshold.

Heritage Park #168948

INSPECTION DATE	WEATHER
April 30, 2025	Sunny

VOLUME CAPACITY (MAINTENANCE)	VOLUME CAPACITY (DESIGN)	FOREBAY DEPTH CAPACITY
○ NO ACTION — 288.8%	93.9%	○ NO ACTION — 66.7%

2025 SURVEY DATA		DESIGN PARAMETERS	
As-built Hard Bottom Volume	14,135 m³	Treatment Level	Level 1 Enhanced
Estimated Sediment Volume	2,567 m³	ECA Permanent Pool Volume	12,315 m³
Remaining Storage Volume	11,568 m³	Required PP Volume	5,510 m³
Forebay Design Depth	2.4 m	Maintenance Trigger Volume	4,006 m³
Surveyed Forebay Depth	1.6 m		
Survey Year	2025		
Service Area	56.1 ha		
Service Area — % Impervious	34.5%		

Observations: Water: Clear. Vegetation (Fair): Aquatic veg around outside of pond and across forebay berm, phragmites primarily located at norther inlet; Lots of trees down; 20.0% invasive coverage. Condition notes — Fence: N/A; Signage: Good (Could have another one at north side)

Maintenance Recommendations / Actions: Remove fallen trees/debris

Outstanding Actions: Sediment removal at southern inlet deferred due to access constraints.

Cunningham #260500

INSPECTION DATE	WEATHER
April 30, 2025	Sunny

VOLUME CAPACITY (MAINTENANCE)	VOLUME CAPACITY (DESIGN)	FOREBAY DEPTH CAPACITY
○ NO ACTION — 119.8%	85.6%	○ NO ACTION — 140.0%

2025 SURVEY DATA		DESIGN PARAMETERS	
As-built Hard Bottom Volume	3,200 m³	Treatment Level	Level 1 Enhanced
Estimated Sediment Volume	393 m³	ECA Permanent Pool Volume	3,278 m³
Remaining Storage Volume	2,807 m³	Required PP Volume	3,326 m³
Forebay Design Depth	1 m	Maintenance Trigger Volume	2,343 m³
Surveyed Forebay Depth	1.4 m		
Survey Year	2025		
Service Area	26.22 ha		
Service Area — % Impervious	45%		

Observations: Water: Clear; fish observed. Vegetation (Good): Veg around outside of pond; 5.0% invasive coverage. Condition notes: Fence repairs required

Maintenance Recommendations / Actions: No immediate maintenance action required — monitor at next inspection cycle

Outstanding Actions: Access path erosion — ongoing monitoring.

Towerhill North #190906

INSPECTION DATE	WEATHER
May 01, 2025	Sunny

VOLUME CAPACITY (MAINTENANCE)	VOLUME CAPACITY (DESIGN)	FOREBAY DEPTH CAPACITY
○ NO ACTION — 331.3%	**85.2%**	◑ **MONITOR — 51.4%**

2025 SURVEY DATA		DESIGN PARAMETERS	
As-built Hard Bottom Volume	9,517 m³	Treatment Level	Level 2 Normal
Estimated Sediment Volume	2,279 m³	ECA Permanent Pool Volume	8,500 m³
Remaining Storage Volume	7,238 m³	Required PP Volume	3,336 m³
Forebay Design Depth	1.4 m	Maintenance Trigger Volume	2,185 m³
Surveyed Forebay Depth	0.72 m		
Survey Year	2025		
Service Area	53.5 ha		
Service Area — % Impervious	42%		

Observations: Water: Cloudy. Vegetation (Poor): Primarily phrag; Lots of downed trees; 95.0% invasive coverage. Condition notes — Fence: N/A; Access: Fair (Little bit of erosion on trail)

Maintenance Recommendations / Actions: Vegetation/invasive species management required; Remove fallen trees/debris

Outstanding Actions: Outlet structure redesign — deferred to next major maintenance cycle. Phragmite removal — outstanding.

Chemong Park Plaza #168949

> CF-2024-02 Resolved: Full sediment cleanout completed in 2025, with minor landscaping deficiencies remaining under contractor warranty.

INSPECTION DATE	WEATHER
May 02, 2025	Cloudy

VOLUME CAPACITY (MAINTENANCE)	VOLUME CAPACITY (DESIGN)	FOREBAY DEPTH CAPACITY
○ NO ACTION — 559.3%	**262.1%**	**○ NO ACTION — 100.0%**

2025 SURVEY DATA		DESIGN PARAMETERS	
As-built Hard Bottom Volume	2,215 m³	Treatment Level	Level 2 Normal
Estimated Sediment Volume	—	ECA Permanent Pool Volume	845 m³
Remaining Storage Volume	2,215 m³	Required PP Volume	605 m³
Forebay Design Depth	1.4 m	Maintenance Trigger Volume	396 m³
Surveyed Forebay Depth	1.4 m		
Survey Year	2025		
Service Area	10.9 ha		
Service Area — % Impervious	51%		

Observations: Water: Cloudy. Vegetation (Poor): Mostly phrag; Many trees down; 90.0% invasive coverage. Debris/litter present

Maintenance Recommendations / Actions: Vegetation/invasive species management required; Remove fallen trees/debris

Outstanding Actions: Restoration works and berm stabilization following dredging operations.

Towerhill South #190907

INSPECTION DATE	WEATHER
May 02, 2025	Cloudy

VOLUME CAPACITY (MAINTENANCE)	VOLUME CAPACITY (DESIGN)	FOREBAY DEPTH CAPACITY
○ NO ACTION — 364.4%	**80.3%**	**○ NO ACTION — 103.7%**

2025 SURVEY DATA		DESIGN PARAMETERS	
As-built Hard Bottom Volume	4,122 m³	Treatment Level	Level 2 Normal
Estimated Sediment Volume	908 m³	ECA Permanent Pool Volume	4,000 m³
Remaining Storage Volume	3,214 m³	Required PP Volume	1,312 m³
Forebay Design Depth	1.35 m	Maintenance Trigger Volume	882 m³
Surveyed Forebay Depth	1.4 m		
Survey Year	2025		
Service Area	16.9 ha		
Service Area — % Impervious	61%		

Observations: Water: Cloudy. Vegetation (Poor): Primarily phragmities; 95.0% invasive coverage. Condition notes — Signage: n/a

Maintenance Recommendations / Actions: Vegetation/invasive species management required

Outstanding Actions: Phragmites management — ongoing. SWMF sign replacement required.

Foxmeadow #260464

INSPECTION DATE	WEATHER
May 02, 2025	Cloudy

VOLUME CAPACITY (MAINTENANCE)	VOLUME CAPACITY (DESIGN)	FOREBAY DEPTH CAPACITY
○ NO ACTION — 140.2%	**73.2%**	**○ NO ACTION — 180.0%**

2025 SURVEY DATA		DESIGN PARAMETERS	
As-built Hard Bottom Volume	581 m³	Treatment Level	Level 2 Normal
Estimated Sediment Volume	173 m³	ECA Permanent Pool Volume	557 m³
Remaining Storage Volume	408 m³	Required PP Volume	442 m³
Forebay Design Depth	1 m	Maintenance Trigger Volume	291 m³
Surveyed Forebay Depth	1.8 m		
Survey Year	2025		
Service Area	7.42 ha		
Service Area — % Impervious	45%		

Observations: Water: Cloudy

Maintenance Recommendations / Actions: No immediate maintenance action required — monitor at next inspection cycle

Outstanding Actions: Surface sheen — source unresolved; monitor in next inspection cycle.

Meadows #302517

INSPECTION DATE	WEATHER
May 05, 2025	Cloudy

VOLUME CAPACITY (MAINTENANCE)	VOLUME CAPACITY (DESIGN)	FOREBAY DEPTH CAPACITY
○ NO ACTION — 572.5%	**530.0%**	**○ NO ACTION — 488.0%**

2025 SURVEY DATA		DESIGN PARAMETERS	
As-built Hard Bottom Volume	2,300 m³	Treatment Level	Level 2 Normal (operating at Enhanced capacity)
Estimated Sediment Volume	657 m³	ECA Permanent Pool Volume	310 m³
Remaining Storage Volume	1,643 m³	Required PP Volume	430 m³
Forebay Design Depth	0.25 m	Maintenance Trigger Volume	287 m³
Surveyed Forebay Depth	1.22 m		
Survey Year	2025		
Service Area	6.1 ha		
Service Area — % Impervious	34%		

Observations: Water: Clear. Vegetation (Poor): Lots of phrag; 50.0% invasive coverage

Maintenance Recommendations / Actions: Vegetation/invasive species management required

Outstanding Actions: Phragmite removal — outstanding.

Fairview Estates #168950

> CF-2024-05 Outstanding: Chronic design-volume deficit (28.68%) — major material removal planned for next capital maintenance cycle.

INSPECTION DATE	WEATHER
May 02, 2025	Sunny

VOLUME CAPACITY (MAINTENANCE)	VOLUME CAPACITY (DESIGN)	FOREBAY DEPTH CAPACITY
● ACTION — 41.9%	**28.7%**	○ **NO ACTION — 110.0%**

2025 SURVEY DATA		DESIGN PARAMETERS	
As-built Hard Bottom Volume	2,285 m³	Treatment Level	Level 1 Enhanced (design); operating at Level 2 Normal
Estimated Sediment Volume	871 m³	ECA Permanent Pool Volume	4,930 m³
Remaining Storage Volume	1,414 m³	Required PP Volume	4,837 m³
Forebay Design Depth	1.5 m	Maintenance Trigger Volume	3,374 m³
Surveyed Forebay Depth	1.65 m		
Survey Year	2025		
Service Area	34.76 ha		
Service Area — % Impervious	50%		

Observations: Water: Cloudy. Vegetation (Poor): Veg around pond and phragmities; Many trees down; 50.0% invasive coverage. Condition notes — Access: Fair

Maintenance Recommendations / Actions: Vegetation/invasive species management required; Remove fallen trees/debris

Outstanding Actions: Major sediment/material removal — deferred to next capital maintenance cycle. Design-volume deficit (46.35%) is currently operating at a “normal” level of protection.

Loggerhead 2 #260465

> CF-2024-03 Resolved: Forebay cleanout completed in 2025.

INSPECTION DATE	WEATHER
May 03, 2025	Sunny

VOLUME CAPACITY (MAINTENANCE)	VOLUME CAPACITY (DESIGN)	FOREBAY DEPTH CAPACITY
○ NO ACTION — 546.9%	**111.8%**	**○ NO ACTION — 120.0%**

2025 SURVEY DATA		DESIGN PARAMETERS	
As-built Hard Bottom Volume	6,064 m³	Treatment Level	Level 1 Enhanced
Estimated Sediment Volume	1,000 m³	ECA Permanent Pool Volume	4,530 m³
Remaining Storage Volume	5,064 m³	Required PP Volume	2,975 m³
Forebay Design Depth	1 m	Maintenance Trigger Volume	926 m³
Surveyed Forebay Depth	1.2 m		
Survey Year	2025		
Service Area	24.62 ha		
Service Area — % Impervious	42.8%		

Observations: Facility cleaned out in 2025, all required maintenance addressed forebays dredged, berms restored, lines flushed and cleaned.

Maintenance Recommendations / Actions: All maintenance items addressed as part of 2025 contract

Outstanding Actions: Forebay cleanout — deferred to 2025 (bonding issue). Outfall channel remediation — deferred to major maintenance cycle. Confirm cleanout completion in next reporting cycle.

Loggerhead 1 #168298

INSPECTION DATE	WEATHER
May 02, 2025	Cloudy

VOLUME CAPACITY (MAINTENANCE)	VOLUME CAPACITY (DESIGN)	FOREBAY DEPTH CAPACITY
○ NO ACTION — 132.3%	**87.8%**	**○ NO ACTION — 114.0%**

2025 SURVEY DATA		DESIGN PARAMETERS	
As-built Hard Bottom Volume	7,094 m³	Treatment Level	Level 1 Enhanced
Estimated Sediment Volume	2,319 m³	ECA Permanent Pool Volume	5,441 m³
Remaining Storage Volume	4,775 m³	Required PP Volume	5,133 m³
Forebay Design Depth	1 m	Maintenance Trigger Volume	3,608 m³
Surveyed Forebay Depth	1.14 m		
Survey Year	2025		
Service Area	41.63 ha		
Service Area — % Impervious	45%		

Observations: Water: Cloudy. Vegetation (Good): Trees down; 20.0% invasive coverage. Condition notes — Access: Fair

Maintenance Recommendations / Actions: Remove fallen trees/debris

Outstanding Actions: None.

Cedargrove #260441

> CF-2024-04 Resolved: Warranty items (tree replacement, pond signage) confirmed complete in 2025.

INSPECTION DATE	WEATHER
May 05, 2025	Cloudy

VOLUME CAPACITY (MAINTENANCE)	VOLUME CAPACITY (DESIGN)	FOREBAY DEPTH CAPACITY
○ NO ACTION — 124.5%	**89.1%**	**○ NO ACTION — 89.5%**

2025 SURVEY DATA		DESIGN PARAMETERS	
As-built Hard Bottom Volume	7,548 m³	Treatment Level	Level 1 Enhanced
Estimated Sediment Volume	729 m³	ECA Permanent Pool Volume	7,650 m³
Remaining Storage Volume	6,819 m³	Required PP Volume	7,712 m³
Forebay Design Depth	1.33 m	Maintenance Trigger Volume	5,476 m³
Surveyed Forebay Depth	1.19 m		
Survey Year	2025		
Service Area	68 ha		
Service Area — % Impervious	40%		

Observations: Water: Clear. Vegetation (Very Good): Some dead trees. Debris/litter present

Maintenance Recommendations / Actions: Remove fallen trees/debris

Outstanding Actions: Tree replacement under warranty — confirm complete. Pond signage installation — outstanding. Safety fencing installation — outstanding.

Wentworth #168951

INSPECTION DATE	WEATHER
May 27, 2025	Sunny

VOLUME CAPACITY (MAINTENANCE)	VOLUME CAPACITY (DESIGN)	FOREBAY DEPTH CAPACITY
○ NO ACTION — 212.6%	**117.2%**	**○ NO ACTION — 80.0%**

2025 SURVEY DATA		DESIGN PARAMETERS	
As-built Hard Bottom Volume	1,101 m³	Treatment Level	Level 2 Normal
Estimated Sediment Volume	427 m³	ECA Permanent Pool Volume	575 m³
Remaining Storage Volume	674 m³	Required PP Volume	483 m³
Forebay Design Depth	1 m	Maintenance Trigger Volume	317 m³
Surveyed Forebay Depth	0.8 m		
Survey Year	2025		
Service Area	6.6 ha		
Service Area — % Impervious	45%		

Observations: Water: Clear. Vegetation (Good): 10.0% invasive coverage. Condition notes — Fence: Poor (Fence cut open on eastern side);

Maintenance Recommendations / Actions: No immediate maintenance action required — monitor at next inspection cycle

Outstanding Actions: Repair Fence.

College Park #168275

> "Wet land" portion of this facility maintains a permanent pool, need to investigate at next major maintenance operation. Inlet structure weir was corrected in 2024.

INSPECTION DATE	WEATHER
May 06, 2025	Cloudy

VOLUME CAPACITY (MAINTENANCE)	VOLUME CAPACITY (DESIGN)	FOREBAY DEPTH CAPACITY
—	268.7%	● ACTION — 13.3%

2025 SURVEY DATA		DESIGN PARAMETERS	
As-built Hard Bottom Volume	1,476 m³	Treatment Level	Level 3 Basic
Estimated Sediment Volume	764 m³	ECA Permanent Pool Volume	265 m³
Remaining Storage Volume	712 m³	Required PP Volume	265 m³
Forebay Design Depth	1.5 m	Maintenance Trigger Volume	—
Surveyed Forebay Depth	0.2 m		
Survey Year	2025		
Service Area	83 ha		
Service Area — % Impervious	32%		

Observations: Water: Cloudy; sheen present. Vegetation (Good): Some phragmities; Some minor branches down; 10.0% invasive coverage

Maintenance Recommendations / Actions: No immediate maintenance action required — monitor at next inspection cycle

Outstanding Actions: Forebay depth at 49.33% — approaching RED threshold (40%). Annual depth monitoring required.

Major Bennett #168952

INSPECTION DATE	WEATHER
May 07, 2025	Cloudy

VOLUME CAPACITY (MAINTENANCE)	VOLUME CAPACITY (DESIGN)	FOREBAY DEPTH CAPACITY
○ NO ACTION — 112.9%	70.5%	○ NO ACTION — 108.3%

2025 SURVEY DATA		DESIGN PARAMETERS	
As-built Hard Bottom Volume	6,883 m³	Treatment Level	Level 2 Normal
Estimated Sediment Volume	2,237 m³	ECA Permanent Pool Volume	6,590 m³
Remaining Storage Volume	4,646 m³	Required PP Volume	6,091 m³
Forebay Design Depth	1.2 m	Maintenance Trigger Volume	4,116 m³
Surveyed Forebay Depth	1.3 m		
Survey Year	2025		
Service Area	73.21 ha		
Service Area — % Impervious	64%		

Observations: Water: Cloudy. Vegetation (Fair): Some phrag; 10.0% invasive coverage. Debris/litter present. Condition notes — Access: Pooling water

Maintenance Recommendations / Actions: No immediate maintenance action required — monitor at next inspection cycle

Outstanding Actions: None.

Jackson Meadows #260462

INSPECTION DATE	WEATHER
May 07, 2025	Cloudy

VOLUME CAPACITY (MAINTENANCE)	VOLUME CAPACITY (DESIGN)	FOREBAY DEPTH CAPACITY
○ NO ACTION — 128.0%	**75.2%**	—

2025 SURVEY DATA		DESIGN PARAMETERS	
As-built Hard Bottom Volume	6,077 m³	Treatment Level	Level 1
Estimated Sediment Volume	1,204 m³	ECA Permanent Pool Volume	6,476 m³
Remaining Storage Volume	4,873 m³	Required PP Volume	5,444 m³
Forebay Design Depth	—	Maintenance Trigger Volume	3,806 m³
Surveyed Forebay Depth	2.36 m		
Survey Year	2025		
Service Area	33.51 ha		
Service Area — % Impervious	60%		

Observations: Water: Clear; fish observed. Erosion present

Maintenance Recommendations / Actions: No immediate maintenance action required — monitor at next inspection cycle

Outstanding Actions: None.

Raymond #260461

INSPECTION DATE	WEATHER
May 02, 2025	Cloudy

VOLUME CAPACITY (MAINTENANCE)	VOLUME CAPACITY (DESIGN)	FOREBAY DEPTH CAPACITY
● ACTION — 72.9%	**51.1%**	○ **NO ACTION — 230.0%**

2025 SURVEY DATA		DESIGN PARAMETERS	
As-built Hard Bottom Volume	391 m³	Treatment Level	Level 1
Estimated Sediment Volume	200 m³	ECA Permanent Pool Volume	374 m³
Remaining Storage Volume	191 m³	Required PP Volume	376 m³
Forebay Design Depth	0.5 m	Maintenance Trigger Volume	262 m³
Surveyed Forebay Depth	1.15 m		
Survey Year	2025		
Service Area	2.38 ha		
Service Area — % Impervious	58%		

Observations: Water: Clear. Vegetation: Many trees down

Maintenance Recommendations / Actions: Dead and dieing Tree, needs forbay berm restoration, lots of complaints about this facility.

Outstanding Actions: Dead and dieing trees, forebay berm needs to be restored.

2.3 Dry Pond Inspection Summaries

Annual visual inspections of all dry ponds were conducted using the City's GIS-based Inspection and Maintenance application.

Eldon Court #260439

INSPECTION DATE	WEATHER
April 30, 2025	Sunny

Inlet Condition	No deficiencies noted
Outlet Condition	No deficiencies noted
General Site Conditions	Water appearance: Cloudy; Many trees down
Maintenance Actions	Remove fallen trees/debris, not impacting pond performance.
Outstanding Actions	

Hilliard #168289

INSPECTION DATE	WEATHER
May 01, 2025	Sunny

Inlet Condition	Erosion present at inlet
Outlet Condition	No deficiencies noted
General Site Conditions	Water appearance: Cloudy; Many trees down; 25.0% invasive coverage
Maintenance Actions	Erosion remediation required; Vegetation/invasive species management required; Remove fallen trees/debris
Outstanding Actions	Erosion remediation

Fairhaven #168300

INSPECTION DATE	WEATHER
May 01, 2025	Light rain

Inlet Condition	Access: Unknown
Outlet Condition	No deficiencies noted
General Site Conditions	Many trees down; Signage: Unknown — No sign
Maintenance Actions	Remove fallen trees/debris, not impacting pond performance.
Outstanding Actions	

Hillview #191346

INSPECTION DATE	WEATHER
May 02, 2025	Cloudy

Inlet Condition	Access: Fair — Little bit muddy
Outlet Condition	No deficiencies noted
General Site Conditions	Water appearance: Clear; Many trees knocked down; Signage: Poor — Sign is bent
Maintenance Actions	Remove fallen trees/debris, not impacting pond performance.
Outstanding Actions	

Hemlock Street #168283

INSPECTION DATE	WEATHER
May 02, 2025	Cloudy

Inlet Condition	No deficiencies noted
Outlet Condition	No deficiencies noted
General Site Conditions	Water appearance: Murky; Many trees down
Maintenance Actions	Remove fallen trees/debris, not impacting pond performance.
Outstanding Actions	

Leahy's Lane #190266

INSPECTION DATE	WEATHER
May 02, 2025	Cloudy

Inlet Condition	No deficiencies noted
Outlet Condition	No deficiencies noted
General Site Conditions	Some tree limbs down
Maintenance Actions	Remove fallen trees/debris, not impacting pond performance.
Outstanding Actions	

Naish #190406

INSPECTION DATE	WEATHER
May 03, 2025	Cloudy

Inlet Condition	not accessible
Outlet Condition	not accessible
General Site Conditions	not accessible
Maintenance Actions	Address Access constraints confirm ownership and address any required easement agreements
Outstanding Actions	Access issues

Kawartha Heights #168277

> CF-2024-06 Outstanding: Engineered outlet and downstream outfall redesign required — detailed design planning has commenced.

INSPECTION DATE	WEATHER
May 16, 2025	Cloudy

Inlet Condition	Erosion present at inlet
Outlet Condition	No deficiencies noted
General Site Conditions	Water appearance: Clear; Some phrag; Many trees down; 50.0% invasive coverage
Maintenance Actions	Erosion remediation required; Vegetation/invasive species management required; Remove fallen trees/debris
Outstanding Actions	Outfall requires a complete re-design and has been included in the capital plan to be properly redesigned. This facility has many issues.

Stewart Drive #168281

INSPECTION DATE	WEATHER
May 05, 2025	Cloudy

Inlet Condition	No deficiencies noted
Outlet Condition	No deficiencies noted
General Site Conditions	No deficiencies noted
Maintenance Actions	No immediate maintenance action required — monitor at next inspection cycle
Outstanding Actions	

Medical Drive #302505

INSPECTION DATE	WEATHER
May 07, 2025	Cloudy

Inlet Condition	No deficiencies noted
Outlet Condition	No deficiencies noted
General Site Conditions	Water appearance: Murky; Phrag blocking inlet swale; Some trees down; 20.0% invasive coverage; Debris/litter present; Signage: Fair — Some graffiti on sign
Maintenance Actions	Vegetation/invasive species management required; Remove fallen trees/debris
Outstanding Actions	Facility will be investigated more closely in 2026 to determine workplan.

3.0 OGS Inspection and Maintenance Program

City-owned OGS units are inspected annually by the Wastewater Collection Department. Units exceeding their silt threshold are cleaned by vacuum truck.

> **Missing Information:** missing model ID information to be updated in 2026 for newer units. Newer units that were not inspected or maintained in 2025 have been added to the 2026 workplan list.

Table 3.0 — City Owned OGS Inspection and Maintenance Operations (2025)

FACILITY ID	MODEL	INSP. DATE	MEAS. SILT (mm)	ALLOW. SILT (mm)	SVC REQ.	SHEEN	CLEANED
101761	STC-4000	Jun 09, 2025	475	475	Yes	—	Yes
191669	STC-750	Jun 24, 2025	335	230	Yes	—	Yes
300579	STC-14000	Jun 24, 2025	425	435	Yes	—	Yes
300881	STC-2000	Jun 10, 2025	250	250	Yes	—	Yes
308413	unknown	Jun 23, 2025	455	—	Yes	—	Yes
310633	STC-2000	Jun 10, 2025	330	225	Yes	—	Yes
310697	STC-750	Jun 23, 2025	250	230	Yes	—	Yes
102599	STC-750	Jun 10, 2025	50	230	—	—	—
102600	STC-2000	Jun 10, 2025	200	350	—	—	—
104574	STC-2000	May 22, 2025	330	350	—	—	—
108886	STC-5000	Jun 09, 2025	200	500	—	—	—
180055	STC-2000	Jun 09, 2025	250	350	—	—	—
300861	STC-4000	Jun 10, 2025	100	400	—	—	—
300891	STC-3000	Jun 10, 2025	200	375	—	—	—
300957	STC-2000	Jun 10, 2025	75	350	—	—	—
301177		Jun 10, 2025	75	—	—	—	—
301271	STC-2000	Jun 10, 2025	304	350	—	—	—
302435	STC-750	Jun 10, 2025	50	230	—	—	—
303423	STC-1500	Jun 09, 2025	150	400	—	—	—
303425	STC-2000	May 22, 2025	175	350	—	—	—
303795	STC-2000	Jun 23, 2025	200	350	—	—	—
305351	STC-750	—	100	225	—	—	—
308297		—	200	—	—	—	Yes
308473		Jun 23, 2025	455	—	—	—	Yes
308589		Jun 10, 2025	—	—	—	—	—
309889		Jun 10, 2025	200	—	—	—	—
309895		Jun 10, 2025	75	—	—	—	—
310621	STC-300	—	100	225	—	—	—

FACILITY ID	MODEL	INSP. DATE	MEAS. SILT (mm)	ALLOW. SILT (mm)	SVC REQ.	SHEEN	CLEANED
310631	STC-300	—	125	225	—	—	—
310691	STC-300	—	50	225	—	—	—
310693	STC-300	Jun 10, 2025	100	350	—	—	—
315933		Jun 25, 2025	250	—	—	—	Yes

4.0 LID Inspection and Maintenance Program

> **2025 Milestone:** CF-2024-11 Resolved: LID GIS inspection platform operational in 2025. Bethune Street and Moorecraig/Roper features inspected under the new platform for the first time.

Table 3.1 — City Owned LID Inspection Information (2025)

GIS ID	AREA	FEATURE TYPE	CONDITION / STATUS
Moorecraig/Roper			
31	Moorecraig/Roper	Bio Retention — Grassed Infiltration Swale	Good condition — inspected and documented via GIS; no substantive defects logged — Note: Monitoring well available.
11	Moorecraig/Roper	Bio Retention — Grassed Infiltration Swale	Good condition — inspected and documented via GIS; no substantive defects logged
13	Moorecraig/Roper	Bio Retention — Grassed Infiltration Swale	Good condition — inspected and documented via GIS; no substantive defects logged
15	Moorecraig/Roper	Bio Retention — Grassed Infiltration Swale	Good condition — inspected and documented via GIS; no substantive defects logged
17	Moorecraig/Roper	Bio Retention — Grassed Infiltration Swale	Good condition — inspected and documented via GIS; no substantive defects logged
19	Moorecraig/Roper	Bio Retention — Grassed Infiltration Swale	Good condition — inspected and documented via GIS; no substantive defects logged
21	Moorecraig/Roper	Bio Retention — Grassed Infiltration Swale	Good condition — inspected and documented via GIS; no substantive defects logged
23	Moorecraig/Roper	Bio Retention — Grassed Infiltration Swale	Good condition — inspected and documented via GIS; no substantive defects logged
25	Moorecraig/Roper	Bio Retention — Grassed Infiltration Swale	Good condition — inspected and documented via GIS; no substantive defects logged
27	Moorecraig/Roper	Bio Retention — Grassed Infiltration Swale	Good condition — inspected and documented via GIS; no substantive defects logged
Bethune St			
119	Bethune St	Bio Retention — Grassed infiltration swale with curb cut inlet	Defects identified — maintenance required
121	Bethune St	Bio Retention — Grassed infiltration swale with curb cut inlet	Good condition — no substantive defects logged
123	Bethune St	Bio Retention — Grassed infiltration swale with curb cut inlet	Good condition — no substantive defects logged
125	Bethune St	Bio Retention — Grassed infiltration swale with curb cut inlet	Good condition — no substantive defects logged

GIS ID	AREA	FEATURE TYPE	CONDITION / STATUS
Cleantech Commons			
35	Cleantech Commons	Bio Retention — Bioswale with Planter Box	Fair Condition - Inspected during warranty inspection
37	Cleantech Commons	Bio Retention — Bioswale with Planter Box	Fair Condition - Inspected during warranty inspection
39	Cleantech Commons	Bio Retention — Bioswale with Planter Box	Fair Condition - Inspected during warranty inspection
41	Cleantech Commons	Bio Retention — Bioretention with Planter Box	Fair Condition - Inspected during warranty inspection
43	Cleantech Commons	Bio Retention — Bioretention with Planter Box	Fair Condition - Inspected during warranty inspection
45	Cleantech Commons	Bio Retention — Bioretention with Planter Box	Fair Condition - Inspected during warranty inspection
47	Cleantech Commons	Bio Retention — Bioretention with Planter Box	Fair Condition - Inspected during warranty inspection
49	Cleantech Commons	Bio Retention — Bioretention with Planter Box	Fair Condition - Inspected during warranty inspection
51	Cleantech Commons	Bio Retention — Bioretention with Planter Box	Fair Condition - Inspected during warranty inspection
53	Cleantech Commons	Bio Retention — Bioretention with Planter Box	Fair Condition - Inspected during warranty inspection
55	Cleantech Commons	Bio Retention — Bioretention with Planter box	Fair Condition - Inspected during warranty inspection
57	Cleantech Commons	Bio Retention — Bioretention with Planter Box	Fair Condition - Inspected during warranty inspection
59	Cleantech Commons	Bio Retention — Bioretention with Planter Box	Fair Condition - Inspected during warranty inspection
61	Cleantech Commons	Bio Retention — Bioretention with Planter Box	Fair Condition - Inspected during warranty inspection
63	Cleantech Commons	Bio Retention — Bioretention with Planter Box	Fair Condition - Inspected during warranty inspection
65	Cleantech Commons	Planter Box — Bioretention with Planter Box	Fair Condition - Inspected during warranty inspection
67	Cleantech Commons	Bio Retention — Grassed Infiltration	Good condition — inspected and documented via GIS; no substantive defects logged
69	Cleantech Commons	Bio Retention — Grassed Infiltration	Good condition — inspected and documented via GIS; no substantive defects logged
71	Cleantech Commons	Bio Retention — Grassed Infiltration	Good condition — inspected and documented via GIS; no substantive defects logged
73	Clean Tech Commons	Underground Storage — ADS Infiltration Chamber - PVC	Fair Condition - Inspected during warranty inspection
75	Clean Tech Commons	Underground Storage — ADS Infiltration Chamber - PVC	Fair Condition - Inspected during warranty inspection
77	Clean Tech Commons	Underground Storage — ADS Infiltration Chamber - PVC	Fair Condition - Inspected during warranty inspection

GIS ID	AREA	FEATURE TYPE	CONDITION / STATUS
Brealey Drive			
79	Brealey Drive	Underground Storage — ADS Infiltration Chamber - PVC	Warranty Period over inspections starting in 2026
81	Brealey Drive	Underground Storage — ADS Infiltration Chamber	Warranty Period over inspections starting in 2026
83	Brealey Drive	Underground Storage — ADS Infiltration Chamber	Warranty Period over inspections starting in 2026
85	Brealey Drive	Underground Storage — ADS Infiltration Chamber	Warranty Period over inspections starting in 2026
87	Brealey Drive	Underground Storage — ADS Infiltration Chamber	Warranty Period over inspections starting in 2026
89	Brealey Drive	Underground Storage — ADS Infiltration Chamber	Warranty Period over inspections starting in 2026
91	Brealey Drive	Underground Storage — ADS Infiltration Chamber	Warranty Period over inspections starting in 2026
93	Brealey Drive	Underground Storage — ADS Infiltration Chamber	Warranty Period over inspections starting in 2026
95	Brealey Drive	Underground Storage — ADS Infiltration Chamber	Warranty Period over inspections starting in 2026
97	Brealey Drive	Underground Storage — ADS Infiltration Chamber	Warranty Period over inspections starting in 2026
99	Brealey Drive	Underground Storage — ADS Infiltration Chamber	Warranty Period over inspections starting in 2026
101	Brealey Drive	Underground Storage — ADS Infiltration Chamber	Warranty Period over inspections starting in 2026
103	Brealey Drive	Underground Storage — ADS Infiltration Chamber	Warranty Period over inspections starting in 2026
105	Brealey Drive	Underground Storage — ADS Infiltration Chamber	Warranty Period over inspections starting in 2026
107	Brealey Drive	Underground Storage — ADS Infiltration Chamber	Warranty Period over inspections starting in 2026
109	Brealey Drive	Underground Storage — ADS Infiltration Chamber	Warranty Period over inspections starting in 2026
111	Brealey Drive	Underground Storage — ADS Infiltration Chamber	Warranty Period over inspections starting in 2026
113	Brealey Drive	Underground Storage — ADS Infiltration Chamber	Warranty Period over inspections starting in 2026
115	Brealey Drive	Underground Storage — ADS Infiltration Chamber	Warranty Period over inspections starting in 2026
117	Brealey Drive	Underground Storage — ADS Infiltration Chamber	Warranty Period over inspections starting in 2026
145	Brealey Drive	Underground Storage — ADS Infiltration Chamber	Warranty Period over inspections starting in 2026
147	Brealey Drive	Underground Storage — ADS Infiltration Chamber - PVC	Warranty Period over inspections starting in 2026

GIS ID	AREA	FEATURE TYPE	CONDITION / STATUS
149	Brealey Drive	Underground Storage — ADS Infiltration Chamber - PVC	Warranty Period over inspections starting in 2026
151	Brealey Drive	Underground Storage — ADS Infiltration Chamber	Warranty Period over inspections starting in 2026
153	Brealey Drive	Underground Storage — ADS Infiltration Chamber - PVC	Warranty Period over inspections starting in 2026
155	Brealey Drive	Underground Storage — ADS Infiltration Chamber - PVC	Warranty Period over inspections starting in 2026
157	Brealey Drive	Underground Storage — ADS Infiltration Chamber - PVC	Warranty Period over inspections starting in 2026
159	Brealey Drive	Underground Storage — ADS Infiltration Chamber - PVC	Warranty Period over inspections starting in 2026
161	Brealey Drive	Underground Storage — ADS Infiltration Chamber	Warranty Period over inspections starting in 2026
163	Brealey Drive	Underground Storage — ADS Infiltration Chamber - PVC	Warranty Period over inspections starting in 2026
165	Brealey Drive	Underground Storage — ADS Infiltration Chamber - PVC	Warranty Period over inspections starting in 2026
167	Brealey Drive	Underground Storage — ADS Infiltration Chamber - PVC	Warranty Period over inspections starting in 2026
Knights of Columbus Park			
137	Knights of Columbus Park	Underground Storage — Clear Stone Infiltration Feature	Not yet inspected
139	Knights of Columbus Park	Underground Storage — Clear Stone Infiltration Feature	Not yet inspected
141	Knights of Columbus Park	Underground Storage — Clear Stone Infiltration Feature	Not yet inspected
Lily Lake East			
169	Lily Lake East	Underground Storage — Infiltration Chamber	Not yet inspected
171	Lily Lake East	Underground Storage — Infiltration Chamber	Not yet inspected
Clonsilla and Lansdowne			
9	Clonsilla and Lansdowne	Infiltration Chamber	Good Condition - some standing water inside
Robinson St.			
143	Robinson St.	Bio Retention	Not yet inspected

5.0 Outfalls

The City inspects all 50 ECA-authorized stormwater outfalls on a rolling three-year inspection cycle. In 2025, 39 outfalls were successfully inspected. 11 outfalls could not be accessed or inspected. 13 outfalls were rated Poor or Very Poor, including 4 rated Very Poor with structural pipe disconnection and severe erosion deficiencies.

> **Priority Action:** 13 outfalls rated Poor or Very Poor in 2025, including 4 with disconnected pipe sections and severe active erosion. Priority capital remediation is required at Very Poor rated outfalls.

Table 5.0 — City Owned LID Inspection Information (2025)

OUTFALL ID	CYCLE YR	CONDITION	NOTES
139844	3	**Poor**	Erosion, debris accumulating in pipe; headwall eroded
139858	3	**Poor**	Debris buildup, partial blockage, bent structure; debris on inlet trees down; erosion around inlet
139867	3	**Very Poor**	Pipe completely disconnected leading to erosion; severe erosion
139873	3	**Poor**	Graffiti, broken grate, erosion; some erosion of channel and headwall
139878	3	**Very Poor**	Last section broken off and cracked; severe erosion; silty water
139892	3	**Poor**	Leaching from soil/buried; outlet buried in sediment; erosion
139899	3	**Poor**	Severe erosion around pipe
139913	3	**Very Poor**	Severe erosion; last section of pipe disconnected; severe erosion approx. 2 m back from pipe end
139993	3	**Poor**	Crushed pipe
140016	3	**Poor**	Broken energy dissipation; erosion in front of outlet
140017	3	**Very Poor**	Last section disconnected and cracked; severe erosion
166502	3	**Poor**	Severe erosion; many trees down; erosion of swale
305335	3	**Poor**	Erosion and corrosion; many trees down in outlet swale; severe erosion approx. 15 m

Unable to Inspect

OUTFALL ID	REASON
139965	Underground
139972	Engulfed in vegetation cannot complete inspection
139989	Unable to locate underneath bridge

5.1 Critical Inlets

The City inspects 78 critical stormwater inlets on a rolling inspection cycle. In 2025, 14 inlets were rated Poor or Very Poor. 9 inlets were inaccessible or could not be inspected.

> **Priority Action:** 14 priority inlets rated Poor or Very Poor in 2025, including inlets with severe debris blockage, structural offset, and asphalt undermining deficiencies requiring remediation.

Table 5.1 — Critical Inlet Inspection Information (2025)

INLET ID	CONDITION	NOTES
125785	**Poor**	Clogged with debris and slightly crushed; debris clogging pipe
127643	**Very Poor**	Covered in debris; lots of debris blocking inlet; sump debris assumed
127651	**Very Poor**	Blocked with debris, sediment bag attached; mostly wood debris
136619	**Poor**	Inlet slightly offset, erosion, pooling; erosion around inlet through sidewalk
136620	**Very Poor**	Severe erosion underneath asphalt
136637	**Very Poor**	Erosion underneath asphalt; debris at bottom of sump
136648	**Poor**	Partial blockage from sediment; erosion likely due to no energy dissipation
136725	**Poor**	Partially buried in sediment; pipe 3/4 blocked with sediment
136730	**Poor**	Grate damaged
184464	**Poor**	Covered and blocked by vegetation; lots of vegetation blocking the inlet
302993	**Poor**	Broken grate, graffiti, debris between headwall
303189	**Very Poor**	Dented and broken grate, sediment; debris accumulation on outlet and behind outlet
308399	**Poor**	Silt bag, partially blocked with debris; silt bag blocking sump
309915	**Poor**	Lots of debris blocking inlet, mostly leaves

6.0 Storm Sewer Inspection and Maintenance Program

Storm sewers are inspected on a 5-year cycle through flushing, cleaning, and CCTV video review.

> **Inspection Coverage:** Approximately 20% of total storm sewer infrastructure inspected in 2025 (rolling 5-year cycle).

Table 6.0 — Storm Sewer Inspection and Maintenance Information (2025)

TASK DESCRIPTION	DELIVERY METHOD	QUANTITY	UNIT
Storm Sewers Flushed, Cleaned, and CCTV Inspected (150mm to 450mm)	External Contractor	20,400	m
Storm Sewers Flushed, Cleaned, and CCTV Inspected (375mm to 2100mm)	External Contractor	22,460	m
Storm Catch Basin Leads Flushed, Cleaned, and CCTV Inspected (150mm to 450mm)	External Contractor	4,868	m
Heavy Debris Removal from Storm Sewers	External Contractor	300	hours
Internal Flush Clean	Internal Staff	47,991	m
Catchbasin Cleanout	Internal Staff	2,759	units
Storm Lead Reline	External Contractor	550	m

7.0 Capital Works Alterations

The following capital works projects involving storm sewer alterations were completed in 2025. SS1 forms have been completed for all projects listed.

Significant Drinking Water Threat: No

Project 1 — Brealey Drive Reconstruction Phase 2

Removal and replacement of existing storm sewers on Brealey Drive, including implementation of LID and OGS features.

DESCRIPTION OF STORM SYSTEM ALTERATION	QUANTITY	UNIT
Remove and Dispose of Existing Storm Sewer	804	m
Remove and Dispose of Existing Structure	42	units
Remove and Dispose of Existing Storm Culvert	65	m
Supply and Install New Storm Service	240	units
Supply and Install New Storm Sewer	2,089	m
Supply and Install New Storm Structure	23	units

DESCRIPTION OF STORM SYSTEM ALTERATION	QUANTITY	UNIT
Infiltration Chamber System	33	units
Supply and Install New Catchbasins	54	units

Significant Drinking Water Threat: No

Project 2 — George and Hilliard Intersection Improvements

Removal and replacement of existing storm sewers and manholes; addition of infiltration chamber and catch basins related to intersection improvements.

DESCRIPTION OF STORM SYSTEM ALTERATION	QUANTITY	UNIT
Remove and Dispose of Existing Storm Sewer	69	m
Remove and Dispose of Existing Structure	5	units
Supply and Install New Storm Sewer	99.4	m
Supply and Install New Storm Structure	12	units
Infiltration Chamber System	1	unit
Supply and Install New Catchbasins	7	units
Supply and Install New Catchbasin Shields	8	units

Significant Drinking Water Threat: No

Project 3 — 145 Langton St. Storm Sewer Upgrades

Upgrades to approximately 150 m of storm sewer on Langton St. to improve conveyance and enable the development of Riverview Long Term Care Facility.

DESCRIPTION OF STORM SYSTEM ALTERATION	QUANTITY	UNIT
Remove and Dispose of Existing Storm Sewer	150	m
Remove and Dispose of Existing Structure	5	units
Supply and Install New Storm Sewer	150	m
Supply and Install New Storm Structure	5	units

Significant Drinking Water Threat: No

7.1 Assumed Infrastructure Alterations

N/A — No assumed infrastructure alterations were identified in the 2025 reporting period outside of the capital works projects described in Section 7.0.

8.0 Complaints

Stormwater complaints received from residents or identified by City staff are logged in the Infrastructure Management GIS application. The following includes all complaints from previous years as well as those logged in 2025.

LOCATION	TYPE	DESCRIPTION	RISK	ONGOING	CLOSED
Confidential	Surface	Flows from storm outlet to the west outlet at top of steep embankment. Causing severe erosion and sediment in creek, washing out trail.	High	Ongoing	No
Confidential	Surface	Flow spills over road during extreme rainfall, flooding property and draining through towards Beechwood.	High	Ongoing	No
Confidential	Groundwater	localized flooding near the floor drain in the basement. water flowing through window on neighbor's side.	High	Ongoing	No
Confidential	Surface	Flow spills over road during extreme rainfall, flooding property and draining through towards Beechwood.	High	Ongoing	No
Confidential	Surface	Overland flow comes down from Ridgewood Rd, overtops curb and flows onto property.	High	Ongoing	No
Confidential	Surface	Every heavy rainfall water pond in my backyard and spills into the basement over the threshold. During the flood of 2004 the water spilled over my basement windows. I also get sewer backups frequently	High	Ongoing	No
Confidential	Surface	Spring melt while the ground is still frozen. The water pools in my driveway and cannot drain to the road. My car has been frozen in the ponded water; sometimes it comes into my basement. The side	High	Ongoing	No
Confidential	Surface	Whenever there is significant rainfall there is an overflow of water off the street into the homeowner's front yard, this has been ongoing since 2004.	High	Ongoing	No
Confidential	Surface	Street and driveway fill with water during moderate rainfall. Backs up to sidewalk, driveway sand sometimes up to foundation of home.	High	Ongoing	No
Confidential	Surface	Significant surface flooding, beyond curb and road impacting Sherbrooke house. Low point in road, exceeds inlet and sewer capacity.	High	Ongoing	No
Confidential	Surface	Storm sewer at bottom of Sherbrooke Street hill that is a ""geyser"" shooting water during heavy rain events. Location is approximate.	High	Ongoing	No
Confidential	Surface	In spring there is water on the lawn area on the Monaghan and on the Gilmour sides of this property. It also sits in the street at the intersection on occasion. There is flooding into the southwest co	High	Ongoing	No
Confidential	Surface	pooling in neighbor's yard	High	Ongoing	No
Confidential	Surface	Water from road appears to drain off road onto sidewalk, then onto. Aylmer property. Super elevated road creates significant drainage area.	High	Ongoing	Yes
Confidential	Surface	Caddy St. floods when we get heavy rainfall, pipe into creek is blocked.	High	Ongoing	Yes

LOCATION	TYPE	DESCRIPTION	RISK	ONGOING	CLOSED
Confidential	Surface	I have spent many thousands re-sloping the land around the house, but it hasn't worked entirely. Generally, this is more of an issue in winter during melts and rain events in spring to fall.	High	Ongoing	No
Confidential	Surface	Flooding of Shoppers property after heavy rain. Water is coming from the north of the property.	High	Single	No
Confidential	Surface	Our street was entirely flooded. The depth varied across it but the deepest was close to in front of our place and was up between my knees and waist. The western half of the street appeared to be more	High	Single	No
Confidential	Surface	Sherbrooke St flooded with water apartment buildings starting to flood	High	Single	No
Confidential	Surface	Flooding due to ice jam on Jackson Creek	High	Single	Yes
Confidential	Surface	Need help to get water down to move cruisers.	High	Single	No
Confidential	Surface	This event was in January 2020, before the completion of the work on Curtis Creek where it meets Tivey St. This has happened once before (in 2018), but it was worse in 2020.	High	Single	Yes
Confidential	Surface	Flow depths on road resulted in vehicles getting stuck.	High	Single	No
Confidential	Other/Unknown	Sewer backup. Source (sani or stm) unknown.	High	Single	No
Confidential	Surface	flooded backyard and basement	High	Single	No
Confidential	Groundwater	Basement flooding	High	Single	Yes

> **Note:** 91 stormwater-related drainage complaints are recorded in the City's GIS complaint management system: 26 High, 44 Moderate, and 21 Low risk. 83 complaints remain open at year-end 2025. All property addresses are withheld for privacy. Full list available upon request.

8.1 Abnormal Spills and Discharge Events

The City's Environmental Protection Services Department manages and reports abnormal spills and discharge events. 17 events were recorded in 2025.

LOCATION	DATE	DESCRIPTION	OPEN?
BREALEY DR	March 27, 2025	Motor vehicle accident — antifreeze and motor oil entered a catchbasin. Catchbasin cleaned out; no impacts at nearby discharge points.	No
PARKHILL RD W	April 23, 2025	Sanitary sewer backup. Sewage entered 2 catchbasins but did not traverse beyond these. Catchbasins cleaned out by WWC staff.	No
AYLMER ST N	May 29, 2025	Up to 4,000 L of transformer oil leaked into a catchbasin due to vandalism. Oil entered Jackson Creek near an intersection. Third-party cleanup engaged.	No
ROGERS ST	June 24, 2025	Styrofoam shavings from a construction site found in onsite storm infrastructure but nothing off site. Constructor agreed to clean up prior to forecasted rain.	No
LANSDOWNE ST W/Kingsway	August 20, 2025	Quantity of water in a storm ditch near the Kingsway. Investigation confirmed a nearby property had erroneously connected a boiler water blowdown to the storm system.	Yes
LANSDOWNE ST W	September 18, 2025	Sheen and debris entering storm sewer system due to Parks Dept. cleaning activities. Source identified; no further action required.	No
HOPKINS AVE	September 24, 2025	Street sweeper blew a hydraulic line losing approximately 125 L of hydraulic oil. Oil discharged to storm sewer. Impacted catch basins cleaned.	No
TECHNOLOGY DR	September 25, 2025	Foam discharging from a facility's parking lot to a storm ditch. Facility staff directed to rectify source. MECP notified.	No
NEAL DR	September 25, 2025	Milky discharge noticed in storm ditch in front of a facility. Traced to a scrap metal facility. Corrective storage protocol confirmation outstanding.	Yes
GEORGE ST N	October 14, 2025	Sheen observed at the box culvert near George and Townsend. Source could not be confirmed. Upstream investigation recommended.	Yes
WELLER ST	October 29, 2025	City dump truck picking up leaf and yard waste developed a coolant leak. Approximately 25 L of coolant lost. Impacted catchbasins cleaned.	No
ERSKINE AVE	October 29, 2025	Fire at a scrap metal facility. Earthen berm helped retain firefighting water. Some discharge reached the storm system. MECP notified. Third-party cleanup engaged.	No
NEAL DR	November 17, 2025	Similar event to the September 25 incident. Spiller took responsibility for cleanup. Corrective storage protocol confirmation outstanding.	Yes
LANSDOWNE ST W	November 17, 2025	Forklift blew a hydraulic line. 3 catchbasins impacted but no evidence of discharge from the sewer system.	No
LANSDOWNE ST W	November 18, 2025	Waste equalization tank at a facility overflowing onto a parking lot. Impacted catchbasins cleaned. No evidence of discharge.	No

LOCATION	DATE	DESCRIPTION	OPEN?
GEORGE ST N	November 18, 2025	Sheen observed at the box culvert near George and Townsend. Recurring event — source not confirmed. Upstream investigation recommended.	Yes
THE QUEENSWAY	November 21, 2025	Sheen noticed in a storm ditch. Possible source nearby with an ECA from MECP. Investigation ongoing. MECP notified.	Yes

> **Notable patterns:** Of 17 recorded spill events in 2025, 3 required MECP notification (Technology Drive, Erskine Avenue, The Queensway). 6 events have outstanding corrective actions at year-end. Recurring sheen at the George Street North / Townsend box culvert (October 14 and November 18) has no confirmed source — upstream investigation is recommended. The Neal Drive milky discharge events (September 25 and November 17) involved a scrap metal facility; corrective storage protocols should be confirmed as implemented.

9.0 Significant Weather Event Log

> Two significant weather events were recorded with post-storm pond inspection implications: March 28–30, 2025 — Significant ice storm affecting the City of Peterborough. No post-storm pond inspections were completed due to freeze-up conditions. The event was documented. August 19–20, 2025 — Approximately 50 mm of rainfall recorded over two days. All accessible ponds were inspected on August 20, 2025, within the required 48-hour post-storm inspection window.

10.0 Monitoring Plan Status

Schedule E, Condition 4.0

ECA# 145-S701 requires the Owner to develop and implement a Monitoring Plan on or before May 19, 2024, or within 24 months of the date of publication of the Ministry’s monitoring guidance — whichever is later.

> The City of Peterborough's water quality monitoring program has not yet commenced. The Monitoring Program is expected to commence in 2026, driven by the Watershed Plan. No formal Monitoring Plan has been submitted to MECP as of the date of this report.

11.0 Monitoring Equipment Calibration and Maintenance

Schedule E, Condition 5.2.6

Staff Gauges

FACILITY	PRIOR YEAR STATUS	
Water Street Pond	No staff gauge installed (2024)	No staff gauge — confirm if installation planned
Fairview Estates Pond	No gauge installed (2024)	No gauge installed
Cedargrove Pond	Gauge present; unreadable (vegetation obstruction)	Status to be confirmed at next inspection
Towerhill North Pond	No staff gauge recorded (2024)	Status to be confirmed
Meadows Pond	No gauge installed (2024)	No gauge installed
Loggerhead 1 Pond	No gauge installed (2024)	No gauge installed

OGS Measurement Equipment

> OGS silt depth measurements are obtained by City Wastewater Collection staff using a calibrated stadia rod. Measurements are recorded directly in the GIS inspection system. No formal equipment calibration protocol is currently in place.

Other Monitoring Equipment

> No additional water quality monitoring equipment is currently deployed under the ECA compliance program. Equipment procurement will be addressed as part of the 2026 Monitoring Plan implementation.

12.0 Five-Year Environmental Trend Summary

Schedule E, Condition 5.2.3

N/A

13.0 Corrective Actions and Prior Year Status

Schedule E, Conditions 5.2.10 and 5.2.11

Resolved — 8 Items

REF	ACTION / DESCRIPTION	RESOLUTION
CF-2024-01	2024 bathymetric survey results outstanding — consultant delivery failure; contingency resurvey may be required in 2026.	AHYDTECH bathymetric survey completed 2025. Results received and incorporated into Section 2.1 and all wet pond sediment data tables. Note: survey reliability flagged — confirm hard-bottom elevations with more qualified surveyors in 2027.
CF-2024-02	Chemong Park Plaza (168949) — full sediment cleanout committed for 2025.	Cleanout completed except for some landscaping deficiencies that are to be completed in spring of 2026.
CF-2024-03	Loggerhead 2 (260465) — forebay cleanout deferred to 2025 due to bonding issues with contractor.	Completed
CF-2024-04	Cedargrove (260441) — warranty items outstanding: tree replacement, pond signage installation, safety fencing installation.	Completed
CF-2024-11	LID inspection format transition — 2025 is first year GIS-generated reporting replaces manual field tables; confirm GIS platform is operational and chart outputs are available.	LID GIS inspection platform operational in 2025.
CF-2024-12	Five ponds not inspected within 48-hour post-storm window (Jackson Creek Meadows, Parklands, Raymond, Lyons Gate, Wentworth) corrective access and protocol measures required.	Ponds have since been inspected, this was more of a time constrain issues than an access issue
CF-2024-13	Armour Rd infiltration chamber (SC740) at cleaning threshold (76 mm sediment) — cleaning required prior to next inspection cycle.	This infiltration chamber was cleaned out in 2024.
CF-2024-14	Steinberg Crt — cross-connected sewers in unassumed subdivision; corrective action assigned to developer — confirm resolution.	This has been resolved by the developer.

Outstanding — 6 Items Carried Forward

REF	ACTION / DESCRIPTION	2026 STATUS
CF-2024-05	Fairview Estates (168950) — chronic design-volume deficit (46.35%); major material removal required to achieve Enhanced treatment level; escalation tracking required.	Planned for next major cleanout operation
CF-2024-06	Kawartha Heights (168277) — engineered outlet and downstream outfall redesign required; culvert under	Detailed design planning process has commenced

REF	ACTION / DESCRIPTION	2026 STATUS
	Kawartha Heights Blvd engineering solution required; linked to Flood Reduction Program.	
CF-2024-07	OGS missing inspection reports (5 units: 305351, 310633, 310691, 310693, 310697) follow-up committed for Q2 2025.	In progress - general access issues are being coordinated with Environmental Service and Public works as part of a cross departmental working group.
CF-2024-08	Complaint — Middlefield Road (moderate risk, ongoing flooding) — unresolved at year-end 2024.	unresolved
CF-2024-09	Complaint — Parkhill Road West (high risk, severe erosion from storm outlet) unresolved at year-end 2024.	Detailed Design under "Jackson Park Outfall" has commenced
CF-2024-10	Complaint — Deana Boulevard (high risk, property flooding after heavy rain) — unresolved at year-end 2024.	unresolved

New Findings — 2025

FACILITY	FINDING / ACTION REQUIRED	2026 TARGET
Raymond Pond (260461)	Forebay berm restoration and dead tree removal required.	Scheduled for 2026 maintenance cycle
College Park (168275)	Forebay depth at 13.3% of design depth — requires consultant review.	Review to be scheduled in 2026
Towerhill North (190906)	Phragmites Issues throughout.	Schedule for next maintenance cycle.

15.0 Pond Signage Compliance

Schedule E, Condition 3.3 — Deadline: May 19, 2025

Condition 3.3 required compliant signage at all Schedule B wet ponds, dry ponds, hybrid facilities, and engineered wetlands.

> Signage compliance under Schedule E, Condition 3.3 remains outstanding at three facilities: Towerhill South, Fairhaven, and Leahy's Lane. Cedargrove Pond achieved compliance in 2025 with the installation of 3 signs (CF-2024-04 resolved). The Cedargrove signage deficiency was identified as a warranty item under CF-2024-04, which was resolved in 2025. Remaining facilities are to be addressed through the City's sign replacement program in 2026.

FACILITY	PRIOR YEAR STATUS	CURRENT STATUS
Towerhill South Pond	Deficiency noted in prior year	Not yet compliant — pending installation
Fairhaven Pond	Deficiency noted in prior year	Not yet compliant — pending installation
Leahy's Lane Pond	Deficiency noted in prior year	Not yet compliant — pending installation
Cedargrove Pond	Deficiency noted in prior year	Compliant — 3 signs installed (2025)

Key Findings and Priority Actions

Priority Capital Action Required

FINDING	FACILITY	DETAIL
Chronic design-volume deficit	Fairview Estates #168950	Volume capacity at 28.68% of design — currently providing Normal level of Protection
Below MECP maintenance trigger	Raymond #260461	Maintenance trigger capacity at 72.9%; forebay berm restoration and dead tree removal required.
Forebay depth approaching critical threshold	College Park #168275	Forebay depth at 13.3% of design. Facility requires consultant assessment.
Structural outfall failures	Outfalls 139867, 139878, 139913, 140017	Four Very Poor rated outfalls with disconnected pipe sections and severe active erosion. Priority capital remediation required.
Priority inlet deficiencies	Multiple critical inlets	14 inlets rated Poor or Very Poor including severe debris blockage and asphalt undermining.

Monitor

FINDING	FACILITY	DETAIL
Forebay depth monitor	Towerhill North #190906	Forebay depth capacity at 51.4%, approaching the 40% ACTION threshold. Phragmites at 95% invasive coverage.
Volume capacity monitor	Water Street #302989	Maintenance trigger capacity at 93.63%, approaching the 100% ACTION threshold.
Outlet redesign in progress	Kawartha Heights #168277	Engineered outlet and downstream outfall redesign — detailed design commenced (CF-2024-06).
Recurring spill events — source unresolved	George St N / Townsend box culvert	Sheen observed on October 14 and November 18, 2025. Source undetermined; upstream investigation recommended.
Phragmites infestation	Multiple facilities	Towerhill North, Towerhill South, Meadows, Chemong Park Plaza: all exceed 50% invasive coverage. Management plans required.

Upcoming Commitments

COMMITMENT	DUE
Monitoring program commencement	2026
Jackson Park Outfall and Channel Improvements	2026 (Design) 2027 (Construction)
Update to Stormwater Master Plan	2027
Raymond Pond forebay berm restoration and tree removal	2026
Kawartha Heights engineered outlet redesign — construction	TBD (design underway)
Confirmatory bathymetric survey — hard-bottom elevation verification	2027

Appendix A — 2025 Sediment Survey Results

> AHYDTECH 2025 bathymetric survey drawings for all 17 wet stormwater management facilities are attached as Appendix A. Note: survey accuracy confidence is low a follow up sediment survey is planned for 2027.

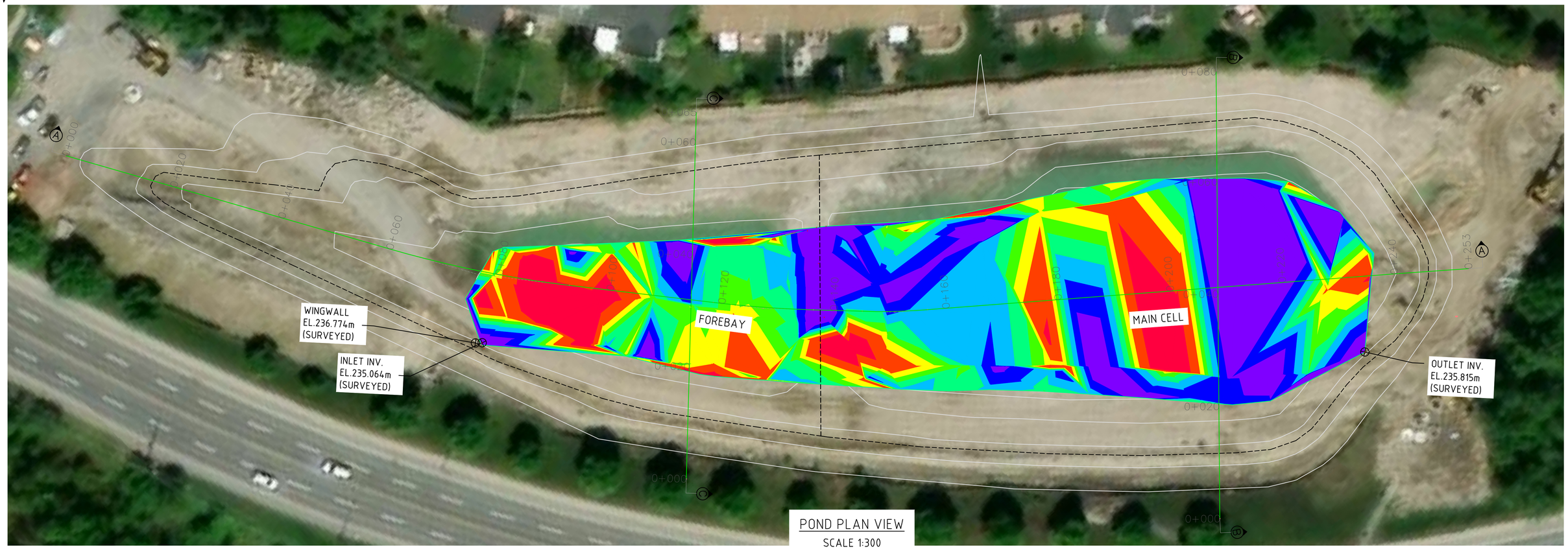
Appendix A Summary: 2025 Sediment Survey Results (Text Version)

The drawings that follow show sediment depth in each pond using colour bands. This table gives the key results from each drawing as text. Values are as shown on the AHYDTECH drawings (DWG AHYD-0311). The drawings are available in an alternate format on request from the City of Peterborough.

Pond	Sheets	Sediment (m^3)	Depth bands (m)	Permanent pool (m)
Cedargrove (Glenforest)	1 and 2	729	-0.44 to 0.42	235.30
Chemong Park Plaza	3	709	-1.01 to 0.26	249.30
College Park	4 and 5	2,640	-1.06 to 0.56	235.50
Cunningham	6 and 7	1,054	-0.71 to 0.35	209.25
Fairview Estates	8 and 9	871	-0.72 to 0.30	249.85
Foxmeadow	10	173	-0.54 to 0.20	194.80
Heritage Park	11 and 12	2,567	-0.92 to 0.62	221.70
Jackson Meadows	13 and 14	1,204	-0.49 to 0.20	241.25
Loggerhead 1	15 and 16	2,319	-0.70 to 0.00	253.70
Loggerhead 2	17 and 18	2,409	-0.96 to 0.28	253.20
Major Bennett	19 and 20	2,237	-0.80 to 0.30	193.10
Meadows	21	657	-0.77 to 0.50	193.68
Raymond Street	22	393	-0.91 to 0.14	235.65
Towerhill North	23 and 24	2,279	-0.77 to 0.28	227.61
Towerhill South	25 and 26	908	-0.55 to 0.06	227.40
Water Street	27 and 28	1,302	-1.34 to 0.21	209.70
Wentworth	29	427	-0.78 to 0.60	196.5
Total (17 ponds)		**22,878**		

Depth bands: lowest and highest values in each drawing's elevations table (depth of sediment identified by survey).

Survey accuracy confidence is low; a follow-up sediment survey is planned for 2027 (see Appendix A introduction).



POND PLAN VIEW

SCALE 1:300

Elevations Table			
Number	Minimum Elevation	Maximum Elevation	Color
1	−0.44	−0.28	
2	−0.28	−0.23	
3	−0.23	−0.20	
4	−0.20	−0.18	
5	−0.18	−0.15	
6	−0.15	−0.12	
7	−0.12	−0.07	
8	−0.07	0.42	

DEPTH OF SEDIMENT IDENTIFIED BY BATHYMETRIC SURVEY

NOTES:

729m^3 OF SEDIMENT TO BE REMOVED FROM POND TO ACHIEVE AS−CONSTRUCTED VOLUME BASED ON SURVEY.

NO.	REVISION	BY	MM/DD/YY
1.	1ST SUBMISSION	MNR	11/12/2024
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DESIGNED BY: Dr. Bahar SM

APPROVED BY:

DRAWN BY: Moniruzzaman Rayhan

DATE: (MM/DD/YY) 08/17/2025

SHEET No. 1 OF 29

DWG. No. AHYD-0311

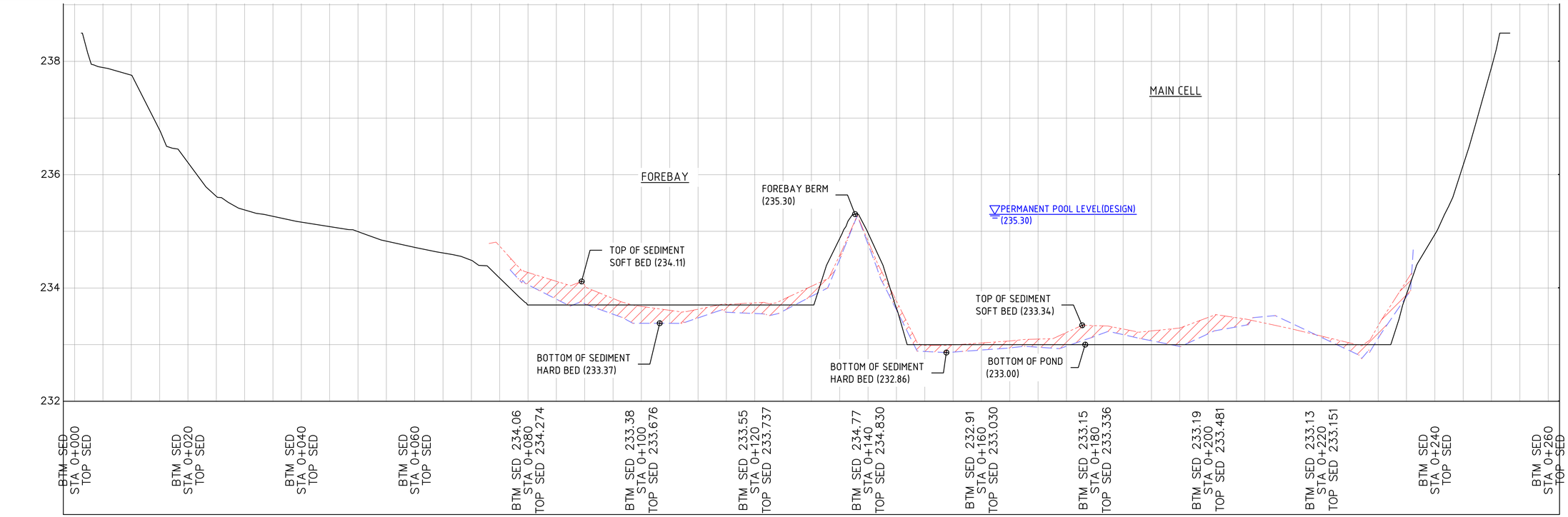
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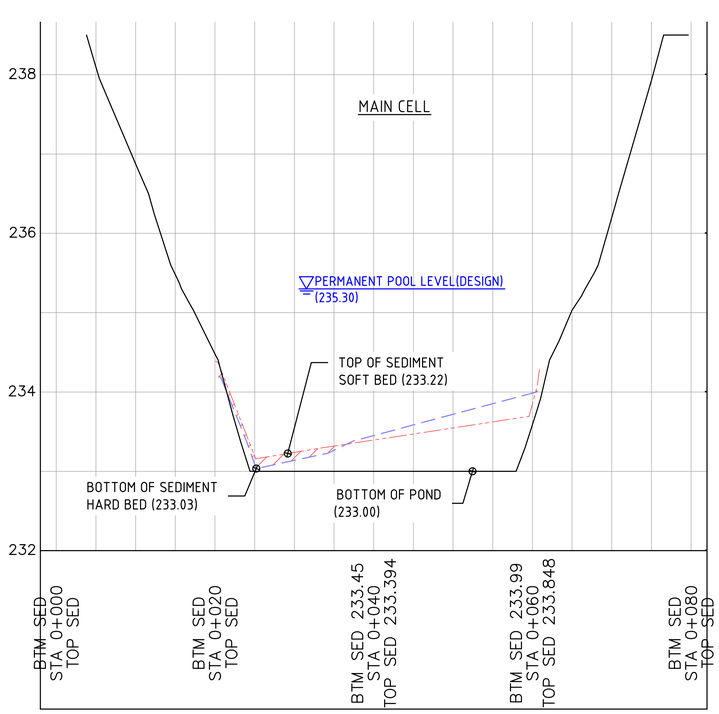
CEDARGROVE(GLENFOREST) STORMWATER POND

SCALE : 1:300



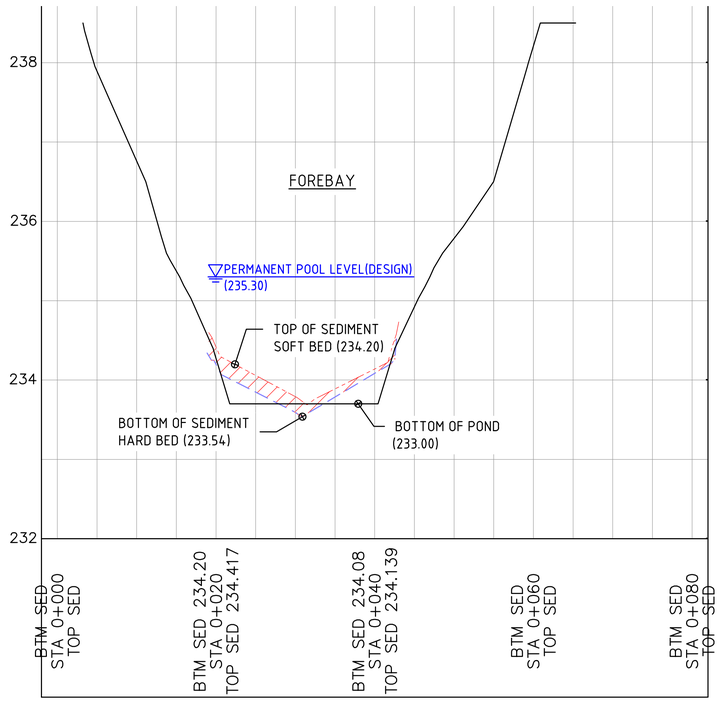
HOR. SCALE 1:300
VERT. SCALE 1:30

SECTION A-A



HOR. SCALE 1:300
VERT. SCALE 1:30

SECTION B-B



HOR. SCALE 1:300
VERT. SCALE 1:30

SECTION C-C

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DESIGNED BY: Dr. Bahar SM

APPROVED BY:

DRAWN BY: Moniruzzaman Rayhan

DATE: (MM/DD/YY) 08/17/2025

SHEET No. 2 OF 29

DWG. No. AHYD-0311

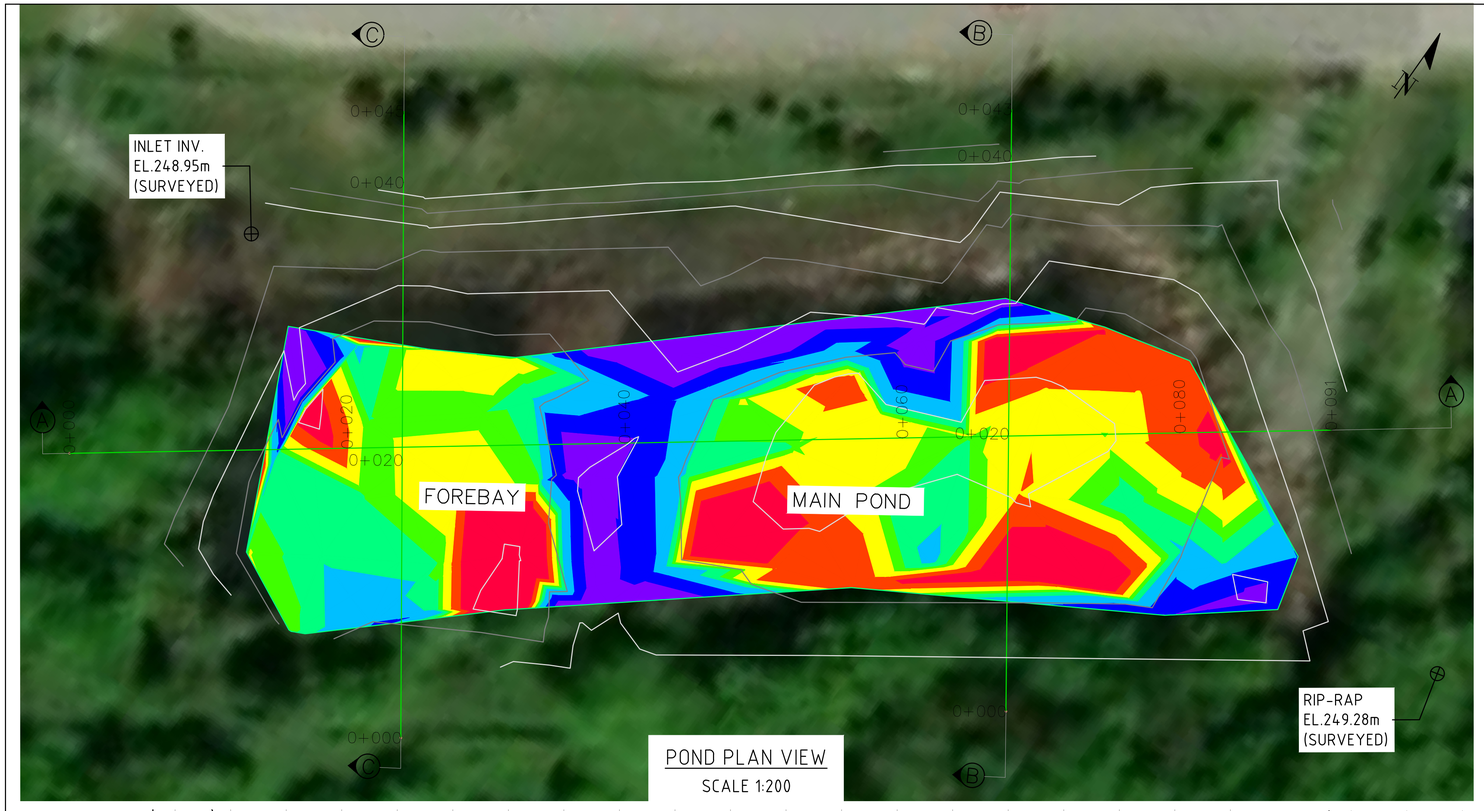
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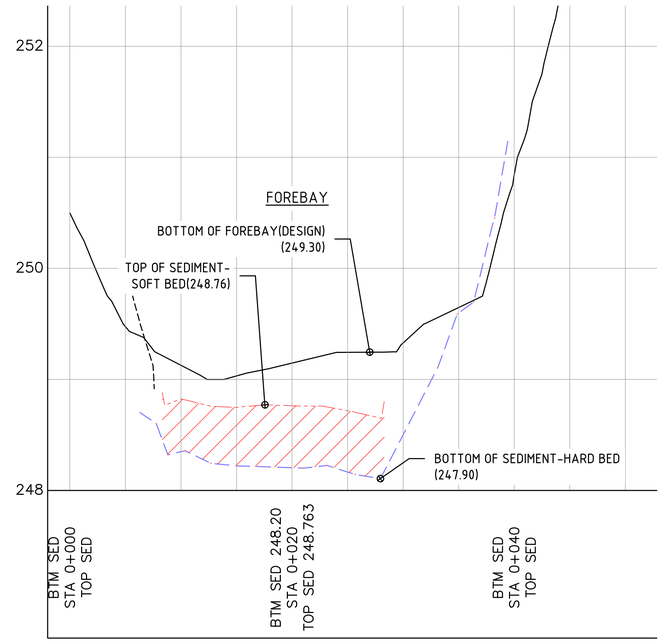
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CEDARGROVE(GLENFOREST) STORMWATER POND

SCALE : 1:300

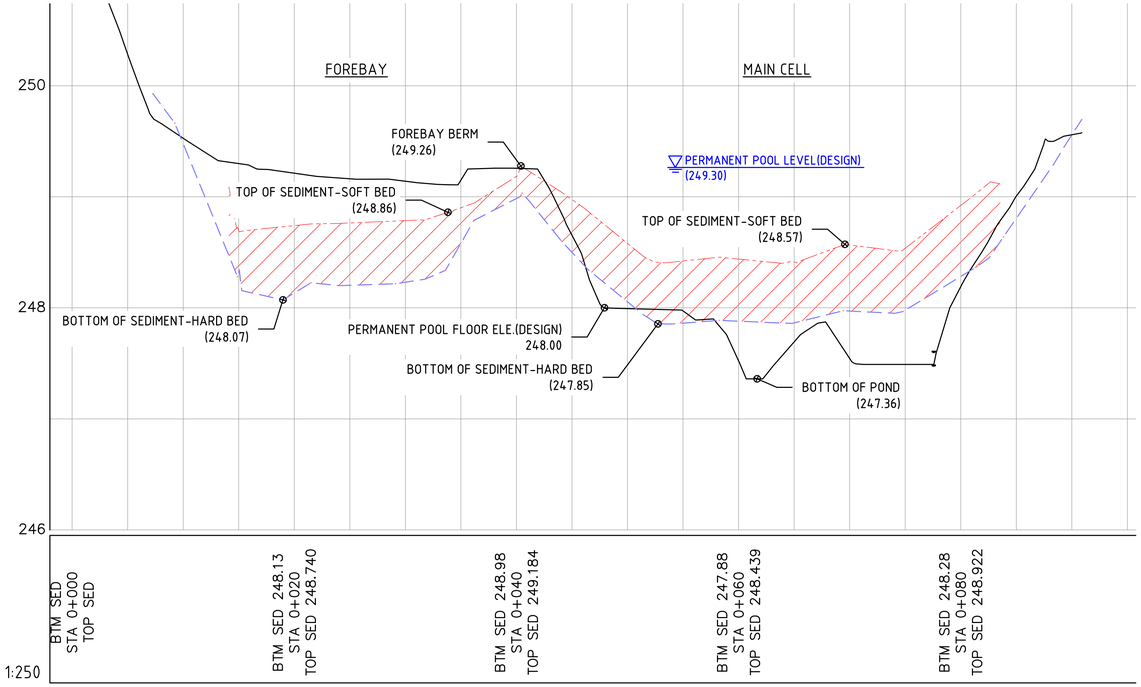


POND PLAN VIEW
SCALE 1:200



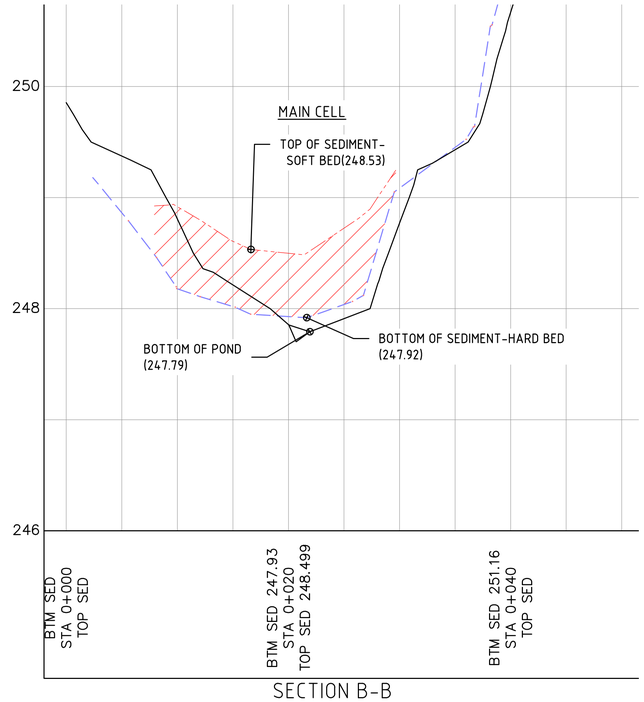
HOR. SCALE 1:250
VERT. SCALE 1:25

SECTION C-C



HOR. SCALE 1:250
VERT. SCALE 1:25

SECTION A-A



SECTION B-B

Elevations Table			
Number	Minimum Elevation	Maximum Elevation	Color
1	−1.01	−0.66	
2	−0.66	−0.60	
3	−0.60	−0.55	
4	−0.55	−0.52	
5	−0.52	−0.48	
6	−0.48	−0.38	
7	−0.38	−0.24	
8	−0.24	0.26	

DEPTH OF SEDIMENT IDENTIFIED BY BATHYMETRIC SURVEY

NOTES:
709m^3 OF SEDIMENT TO BE REMOVED FROM POND TO ACHIEVE AS-CONSTRUCTED VOLUME BASED ON SURVEY.

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1.	1ST SUBMISSION	MNR	11/12/2024
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DESIGNED BY: Dr. Bahar SM

APPROVED BY:

DRAWN BY: Moniruzzaman Rayhan

DATE: (MM/DD/YY) 08/17/2025

SHEET No. 3 OF 29

DWG. No. AHYD-0311

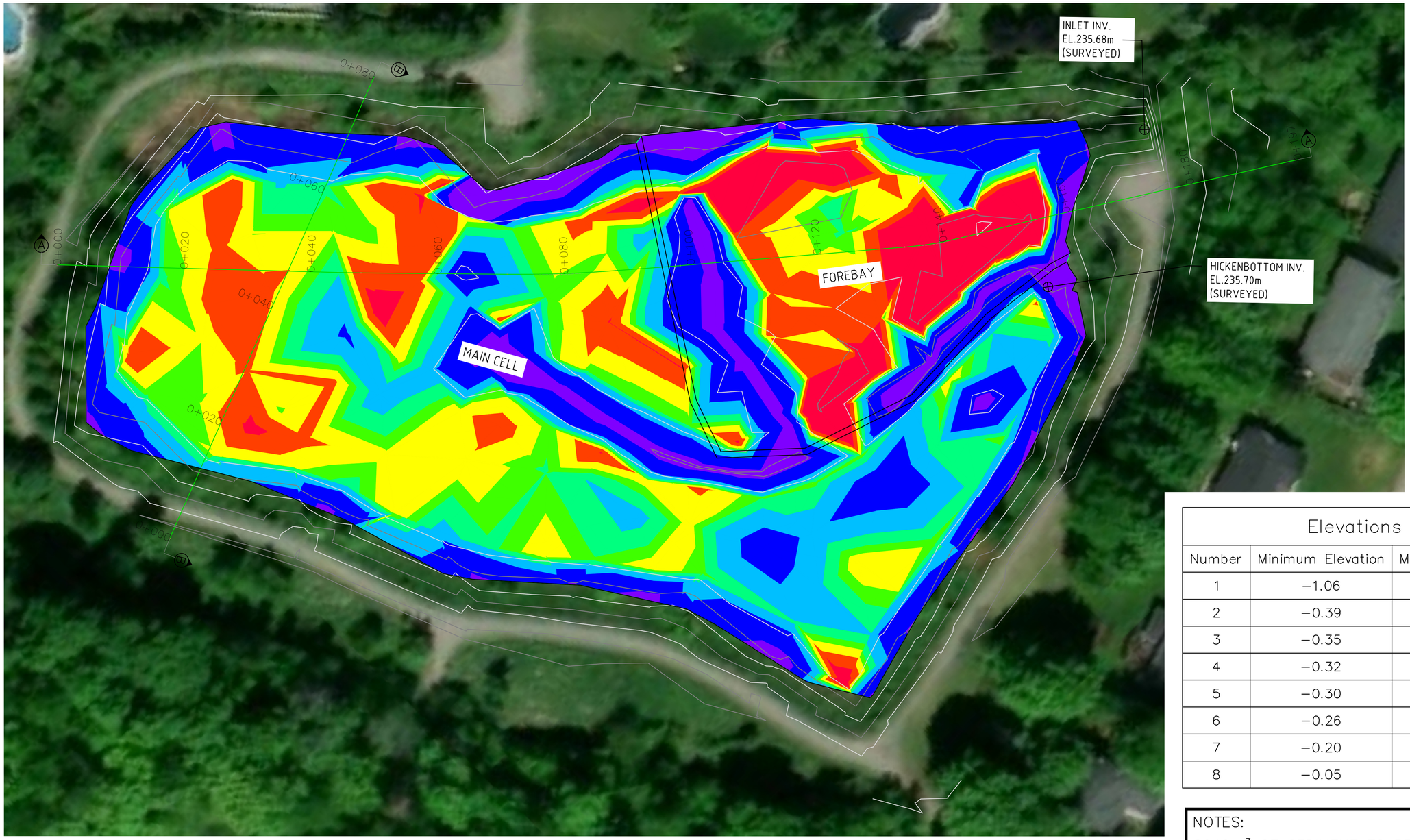
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CHEMONG PARK PLAZA STORMWATER POND

SCALE : 1:200 & 1:250



POND PLAN VIEW

SCALE 1:300

Elevations Table

Number	Minimum Elevation	Maximum Elevation	Color
1	−1.06	−0.39	
2	−0.39	−0.35	
3	−0.35	−0.32	
4	−0.32	−0.30	
5	−0.30	−0.26	
6	−0.26	−0.20	
7	−0.20	−0.05	
8	−0.05	0.56	

DEPTH OF SEDIMENT IDENTIFIED BY BATHYMETRIC SURVEY

NOTES:

2640m^3 OF SEDIMENT TO BE REMOVED FROM POND TO ACHIEVE AS−CONSTRUCTED VOLUME BASED ON SURVEY.

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1.	1ST SUBMISSION	MNR	11/12/2024
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DESIGNED BY: Dr. Bahar SM

APPROVED BY:

DRAWN BY: Moniruzzaman Rayhan

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SHEET No. 4 OF 29

DWG. No. AHYD-0311

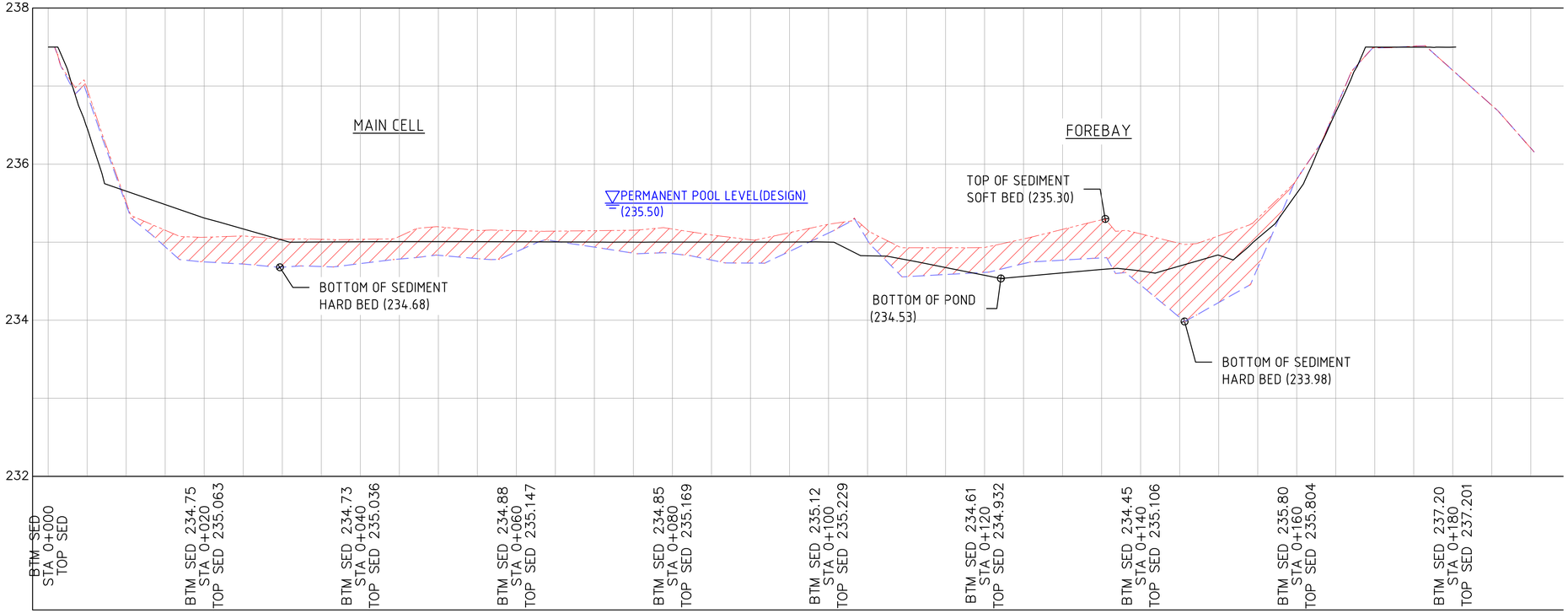
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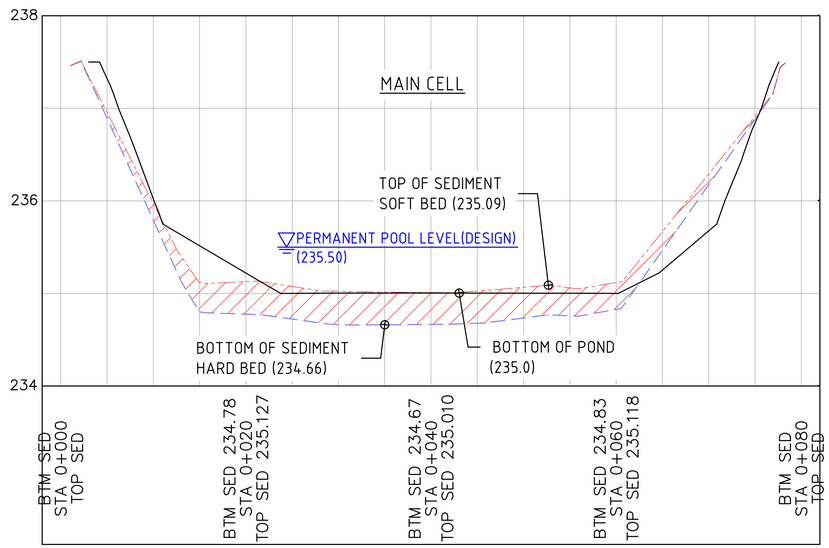
COLLEGE PARK STORMWATER POND

SCALE : 1:300



SECTION A-A

HOR. SCALE 1:300
VERT. SCALE 1:30



SECTION B-B

HOR. SCALE 1:300
VERT. SCALE 1:30

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APPROVED BY:

DRAWN BY: Moniruzzaman Rayhan

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SHEET No. 5 OF 29

DWG. No. AHYD-0311

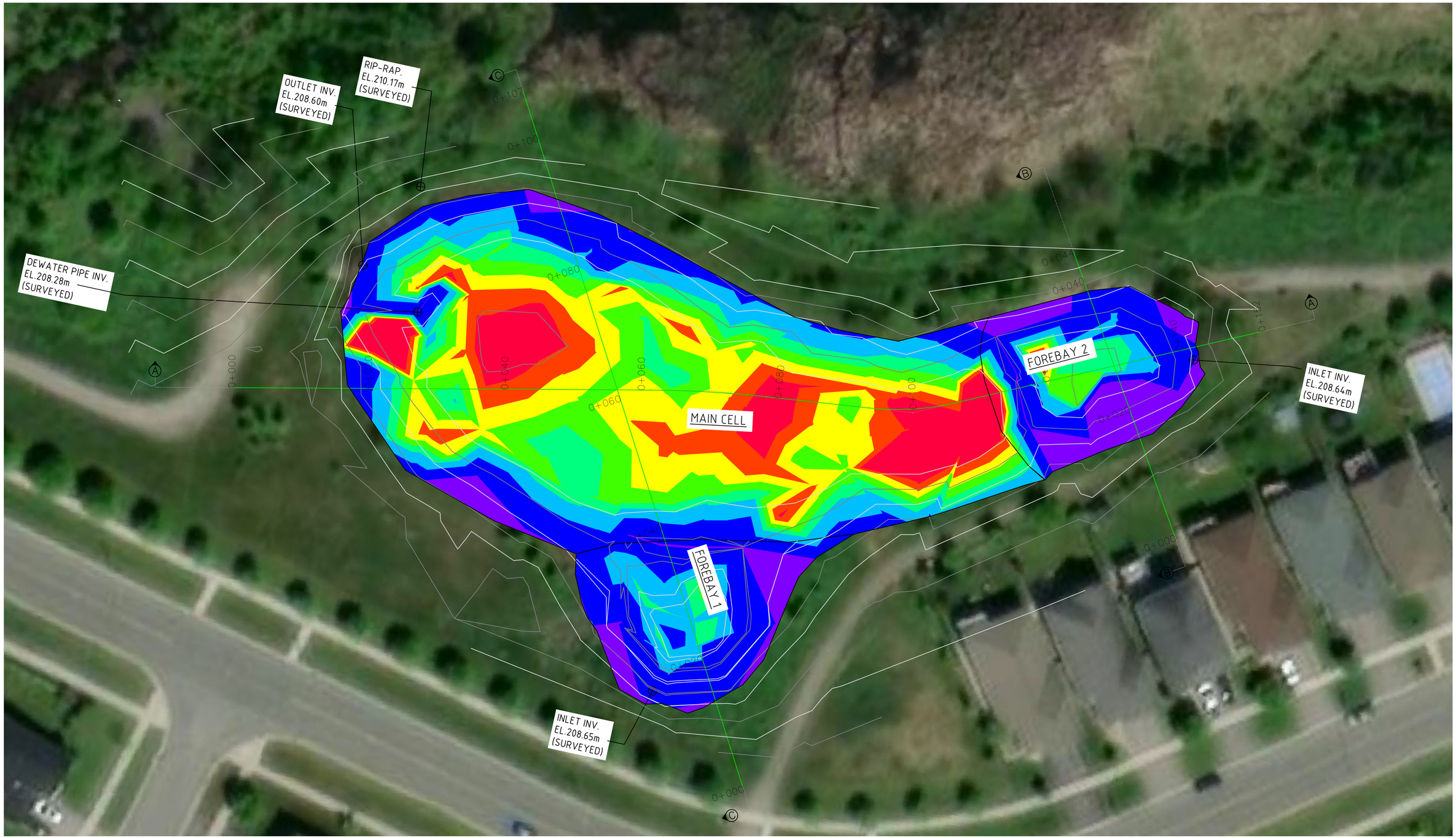
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COLLEGE PARK STORMWATER POND

SCALE : 1:300



POND PLAN VIEW

SCALE 1:250

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SHEET No. 6 OF 29

DWG. No. AHYD-0311

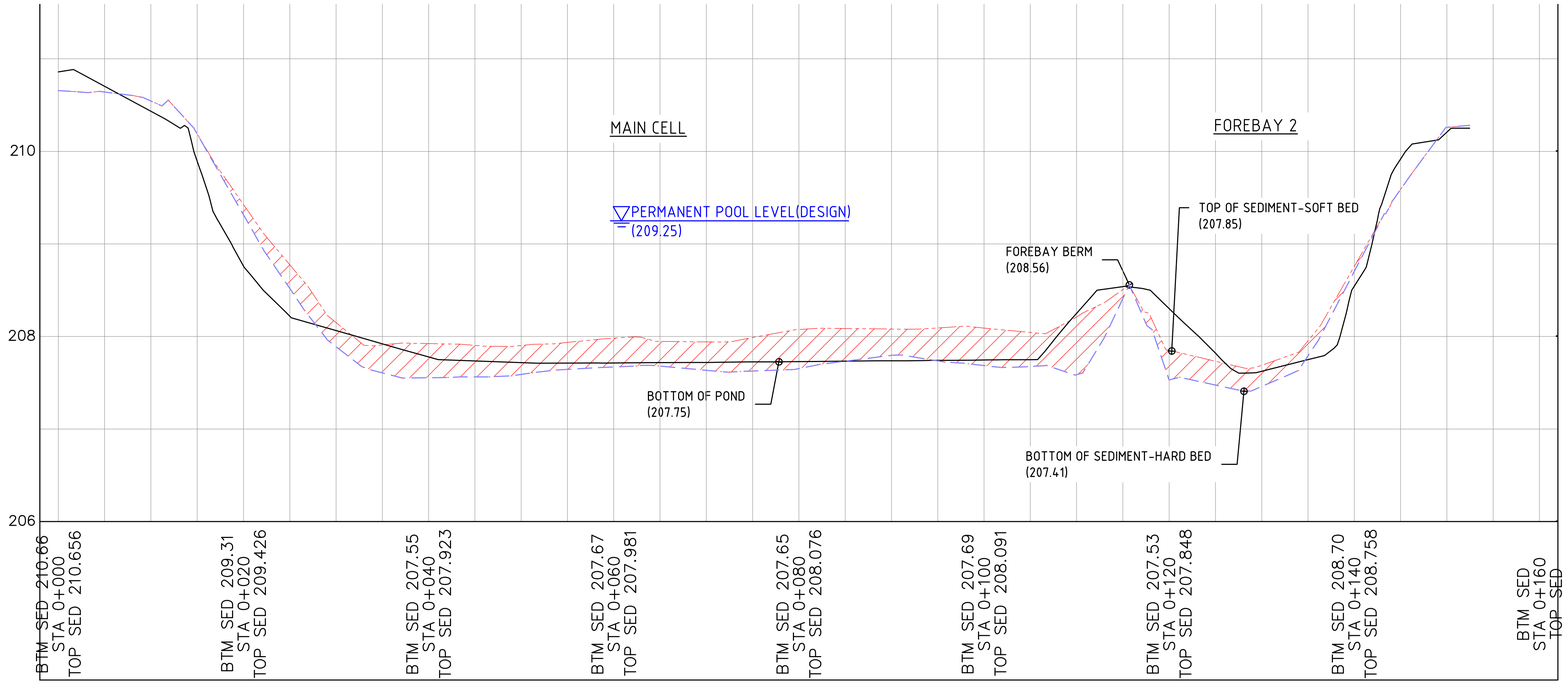
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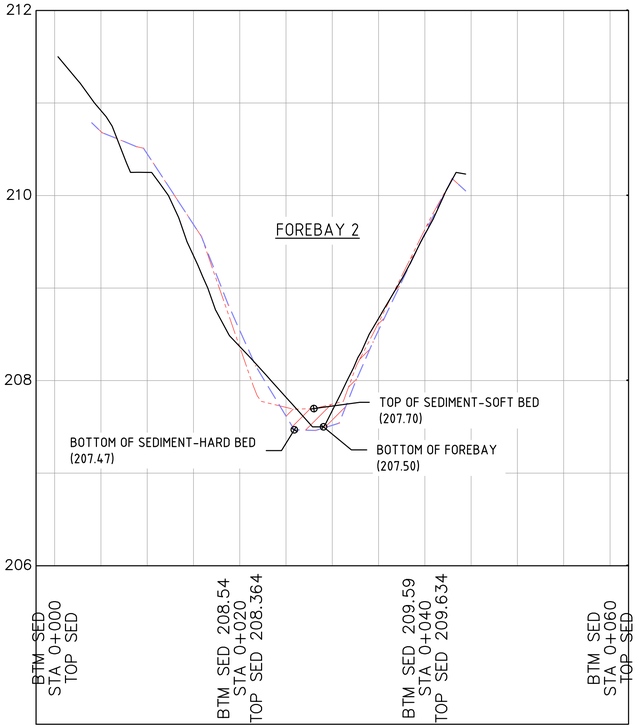
CUNNINGHAM STORMWATER POND

SCALE : 1:250



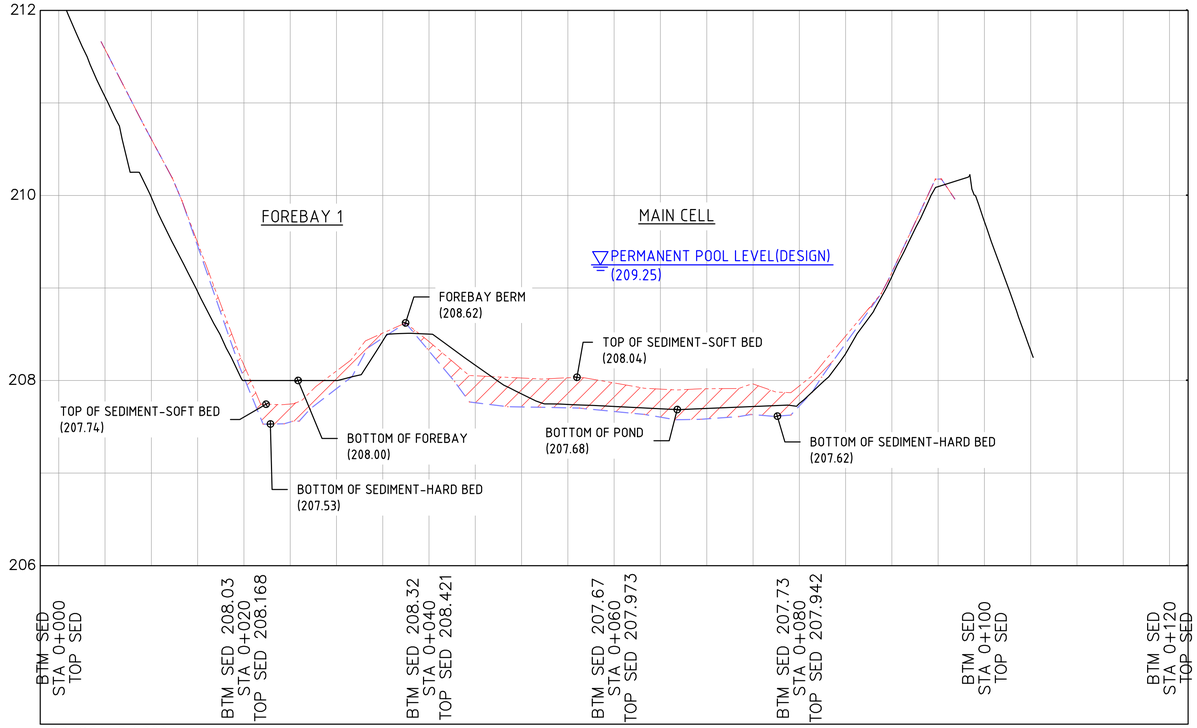
HOR. SCALE 1:300
VERT. SCALE 1:30

SECTION A-A



HOR. SCALE 1:300
VERT. SCALE 1:30

SECTION B-B



HOR. SCALE 1:300
VERT. SCALE 1:30

SECTION C-C

Elevations Table			
Number	Minimum Elevation	Maximum Elevation	Color
1	−0.71	−0.38	
2	−0.38	−0.34	
3	−0.34	−0.30	
4	−0.30	−0.26	
5	−0.26	−0.21	
6	−0.21	−0.13	
7	−0.13	0.00	
8	0.00	0.35	

DEPTH OF SEDIMENT IDENTIFIED BY BATHYMETRIC SURVEY

NOTES:
1054m^3 OF SEDIMENT TO BE REMOVED FROM POND TO ACHIEVE AS-CONSTRUCTED VOLUME BASED ON SURVEY.

NO.	REVISION	BY	MM/DD/YY
1.	1ST SUBMISSION	MNR	11/12/2024
2.	ISSUED FOR APPROVAL	MNR	08/17/2025

DESIGNED BY: Dr. Bahar SM

APPROVED BY:

DRAWN BY: Moniruzzaman Rayhan

DATE: (MM/DD/YY) 08/17/2025

SHEET No. 7 OF 29

DWG. No. AHYD-0311

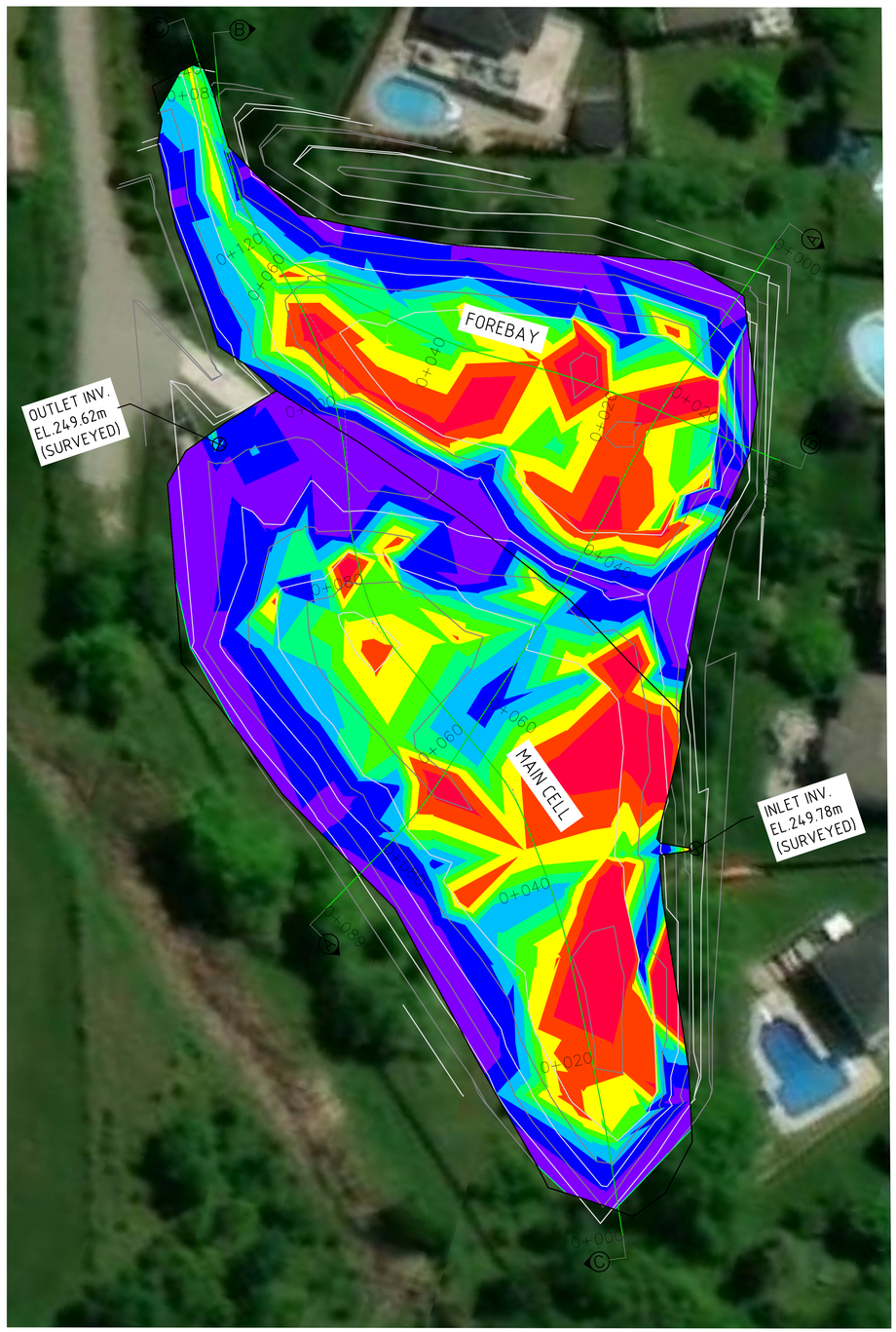
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POND BATHYMETRIC SEDIMENTATION ANALYSIS

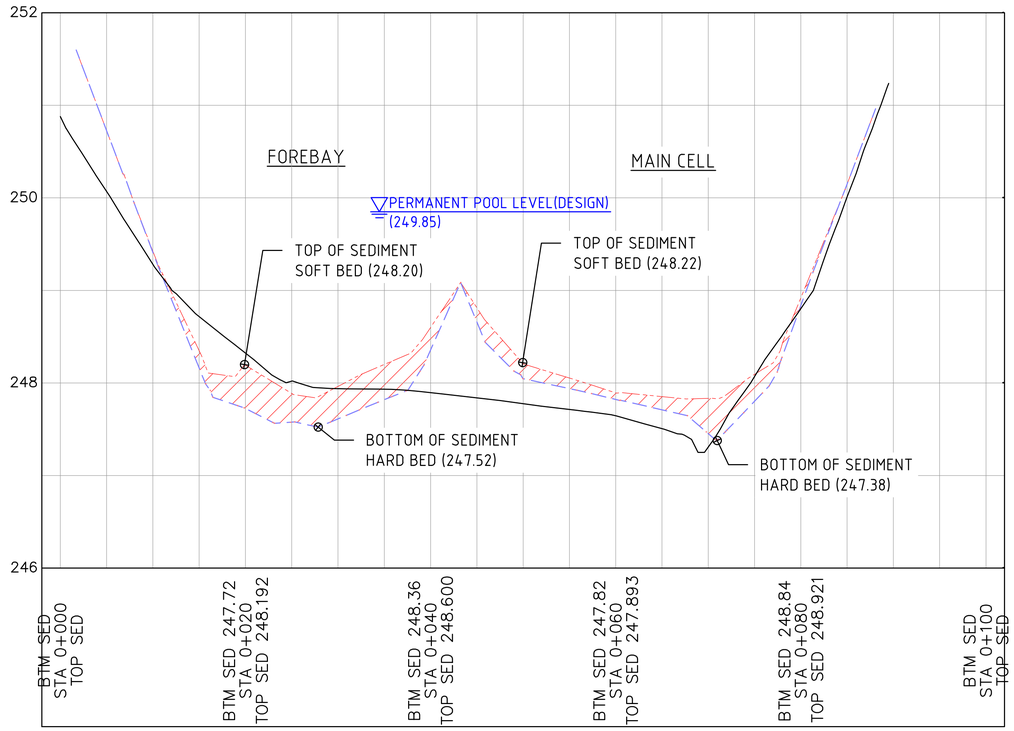
CUNNINGHAM STORMWATER POND

SCALE : 1:300



POND PLAN VIEW

SCALE 1:300



HOR. SCALE 1:300

VERT. SCALE 1:30

SECTION A-A

Elevations Table			
Number	Minimum Elevation	Maximum Elevation	Color
1	−0.72	−0.37	
2	−0.37	−0.30	
3	−0.30	−0.24	
4	−0.24	−0.20	
5	−0.20	−0.16	
6	−0.16	−0.11	
7	−0.11	−0.03	
8	−0.03	0.30	

DEPTH OF SEDIMENT IDENTIFIED BY BATHYMETRIC SURVEY

NOTES:

871m^3 OF SEDIMENT TO BE REMOVED FROM POND TO ACHIEVE AS-CONSTRUCTED VOLUME BASED ON SURVEY.

NO.	REVISION	BY	MM/DD/YY
1.	1ST SUBMISSION	MNR	11/12/2024
2.	ISSUED FOR APPROVAL	MNR	08/17/2025

DESIGNED BY: Dr. Bahar SM

APPROVED BY:

DRAWN BY: Moniruzzaman Rayhan

DATE: (MM/DD/YY) 08/17/2025

SHEET No. 8 OF 29

DWG. No. AHYD-0311

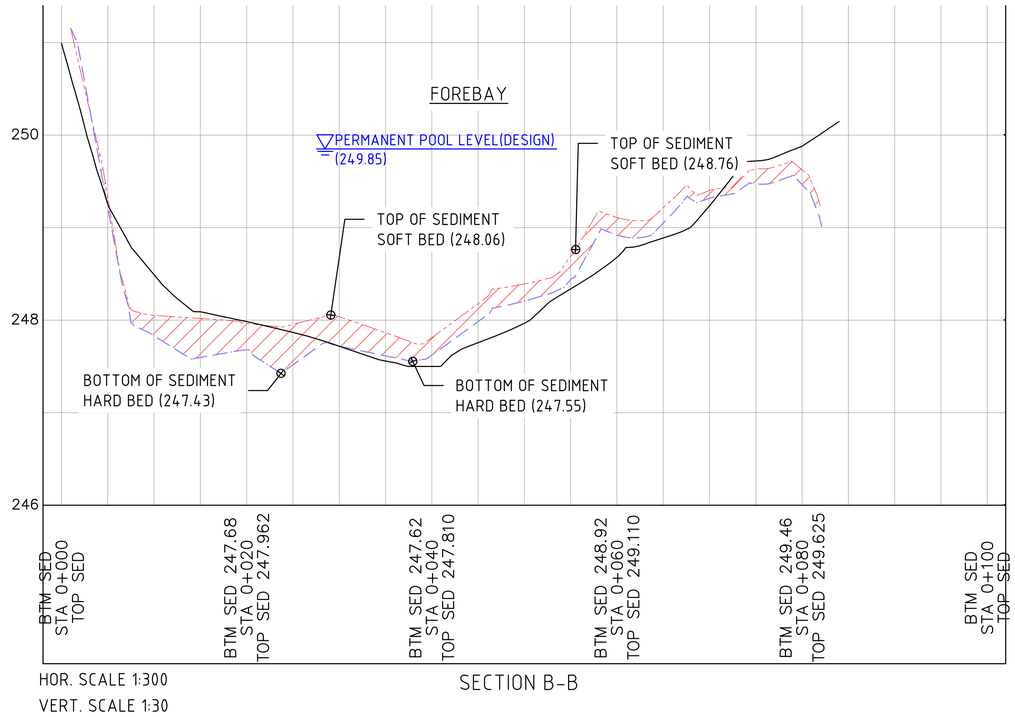
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THE CITY OF PETERBOROUGH
POND BATHYMETRIC SEDIMENTATION ANALYSIS

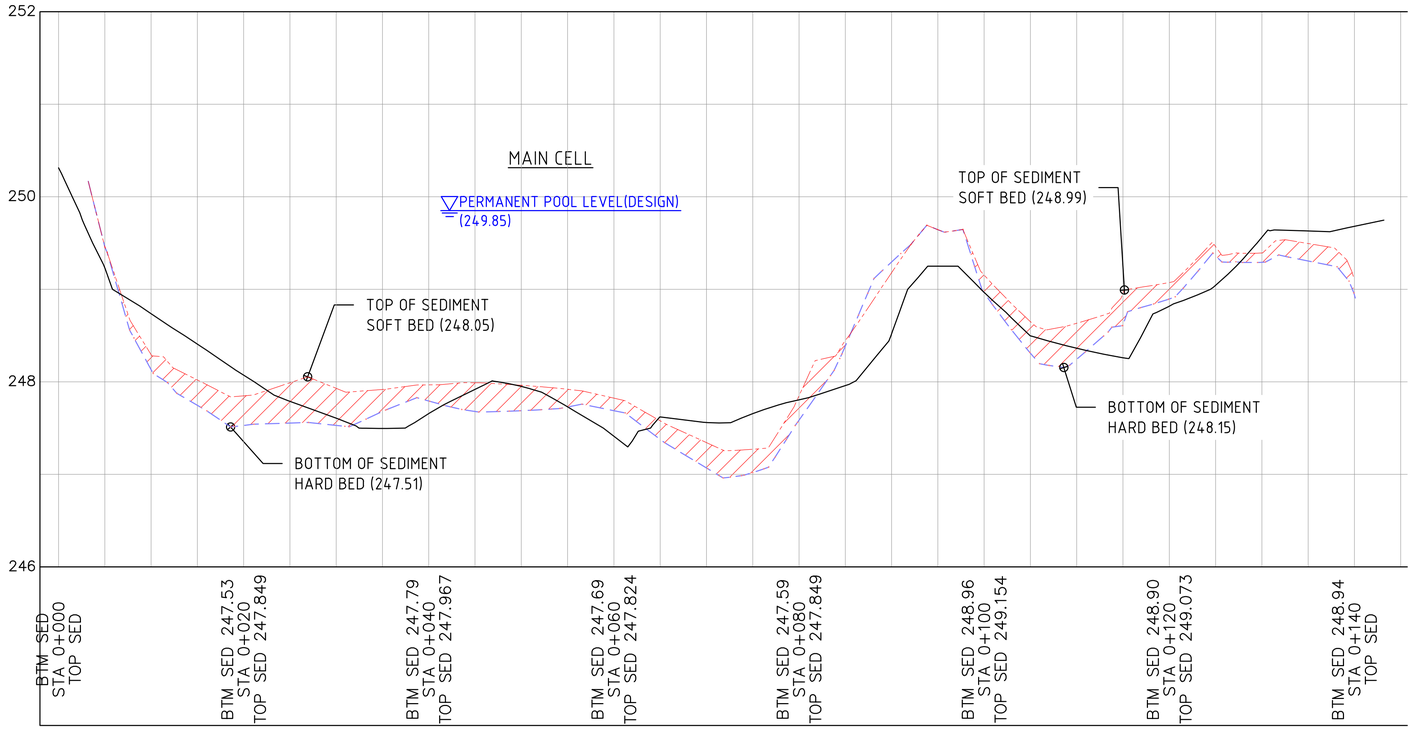
FAIRVIEW ESTATES
STORMWATER POND

SCALE : 1:300



HOR. SCALE 1:300
VERT. SCALE 1:30

SECTION B-B



HOR. SCALE 1:300
VERT. SCALE 1:30

SECTION C-C

NO.	REVISION	BY	MM/DD/YY
1.	1ST SUBMISSION	MNR	11/12/2024
2.	ISSUED FOR APPROVAL	MNR	08/17/2025

DESIGNED BY: Dr. Bahar SM

APPROVED BY:

DRAWN BY: Moniruzzaman Rayhan

DATE: (MM/DD/YY) 08/17/2025

SHEET No. 9 OF 29

DWG. No. AHYD-0311

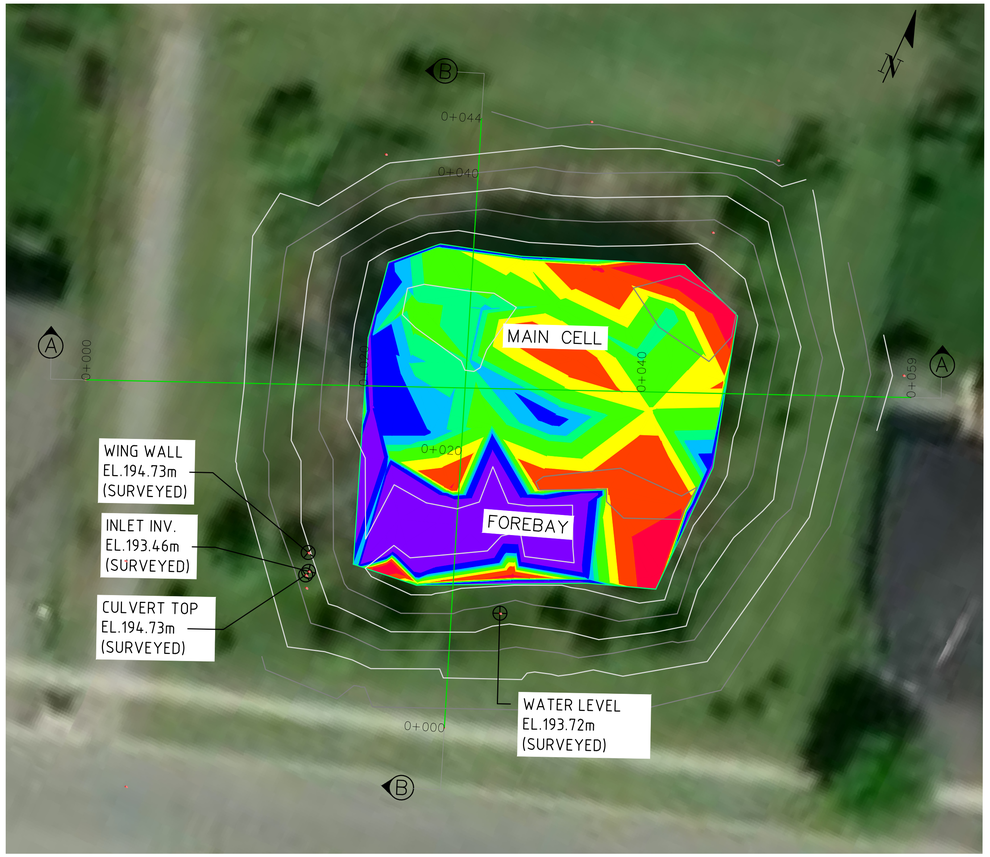
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POND BATHYMETRIC SEDIMENTATION ANALYSIS

FAIRVIEW ESTATES
STORMWATER POND

SCALE : 1:300



POND PLAN VIEW

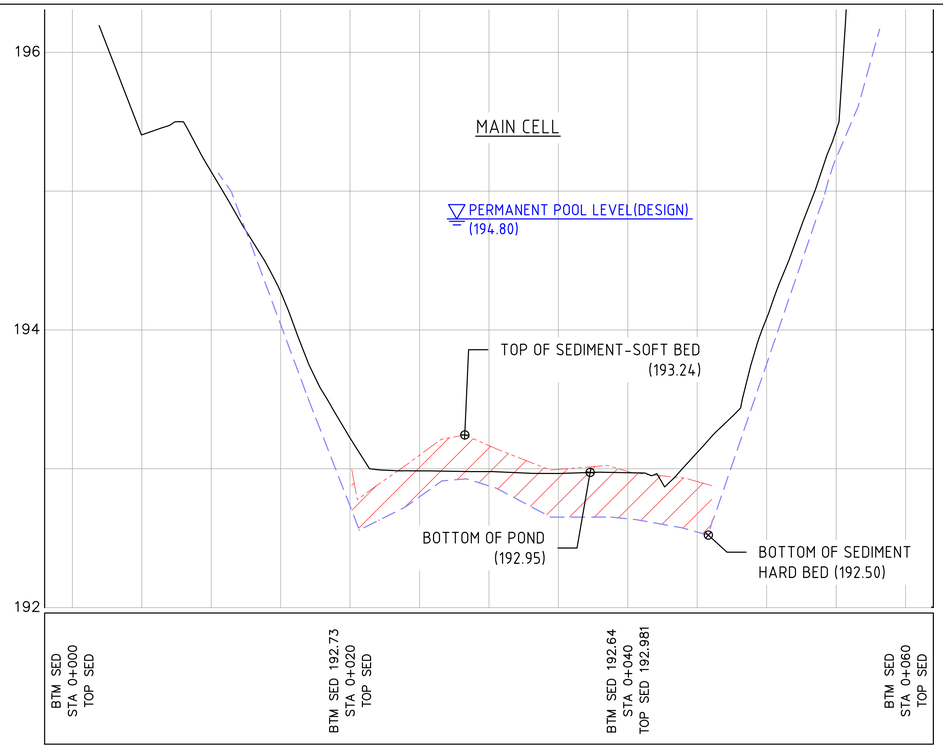
SCALE 1:200

Elevations Table			
Number	Minimum Elevation	Maximum Elevation	Color
1	−0.54	−0.42	
2	−0.42	−0.37	
3	−0.37	−0.34	
4	−0.34	−0.31	
5	−0.31	−0.30	
6	−0.30	−0.28	
7	−0.28	−0.22	
8	−0.22	0.20	

DEPTH OF SEDIMENT IDENTIFIED BY BATHYMETRIC SURVEY

NOTES:

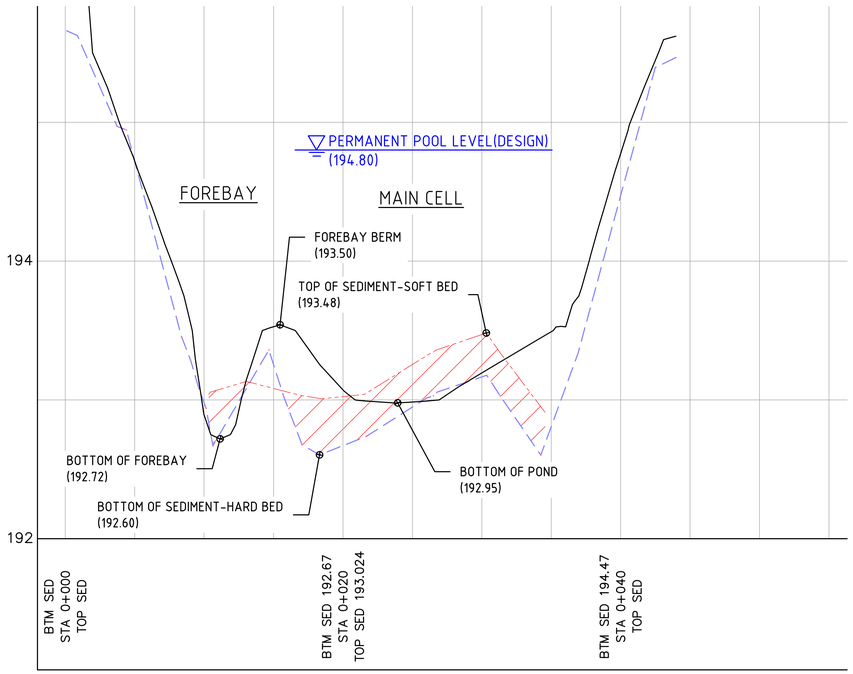
173m^3 OF SEDIMENT TO BE REMOVED FROM POND TO ACHIEVE AS−CONSTRUCTED VOLUME BASED ON SURVEY.



SECTION A−A

HOR. SCALE 1:200

VERT. SCALE 1:20



SECTION B−B

HOR. SCALE 1:200

VERT. SCALE 1:20

NO.	REVISION	BY	MM/DD/YY
1.	1ST SUBMISSION	MNR	11/12/2024
2.	ISSUED FOR APPROVAL	MNR	08/17/2025

DESIGNED BY: Dr. Bahar SM

APPROVED BY:

DRAWN BY: Moniruzzaman Rayhan

DATE: (MM/DD/YY) 08/17/2025

SHEET No. 10 OF 29

DWG. No. AHYD-0311

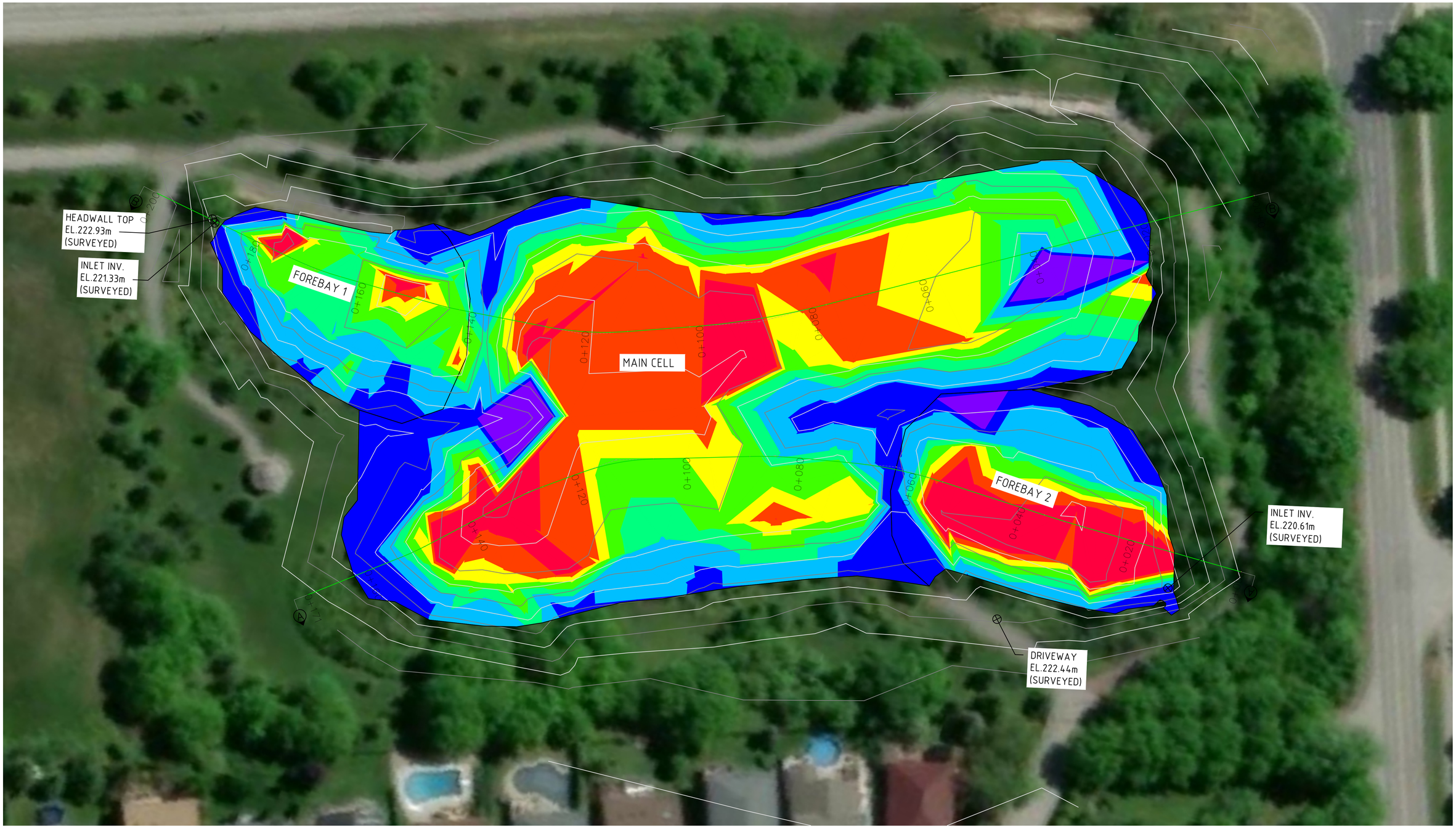
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POND BATHYMETRIC SEDIMENTATION ANALYSIS

FOXMEADOW POND

SCALE : 1:200



POND PLAN VIEW

SCALE 1:300

NO.	REVISION	BY	MM/DD/YY
1.	1ST SUBMISSION	MNR	11/12/2024
2.	ISSUED FOR APPROVAL	MNR	08/17/2025

DESIGNED BY: Dr. Bahar SM

APPROVED BY:

DRAWN BY: Moniruzzaman Rayhan

DATE: (MM/DD/YY) 08/17/2025

SHEET No. 11 OF 29

DWG. No. AHYD-0311

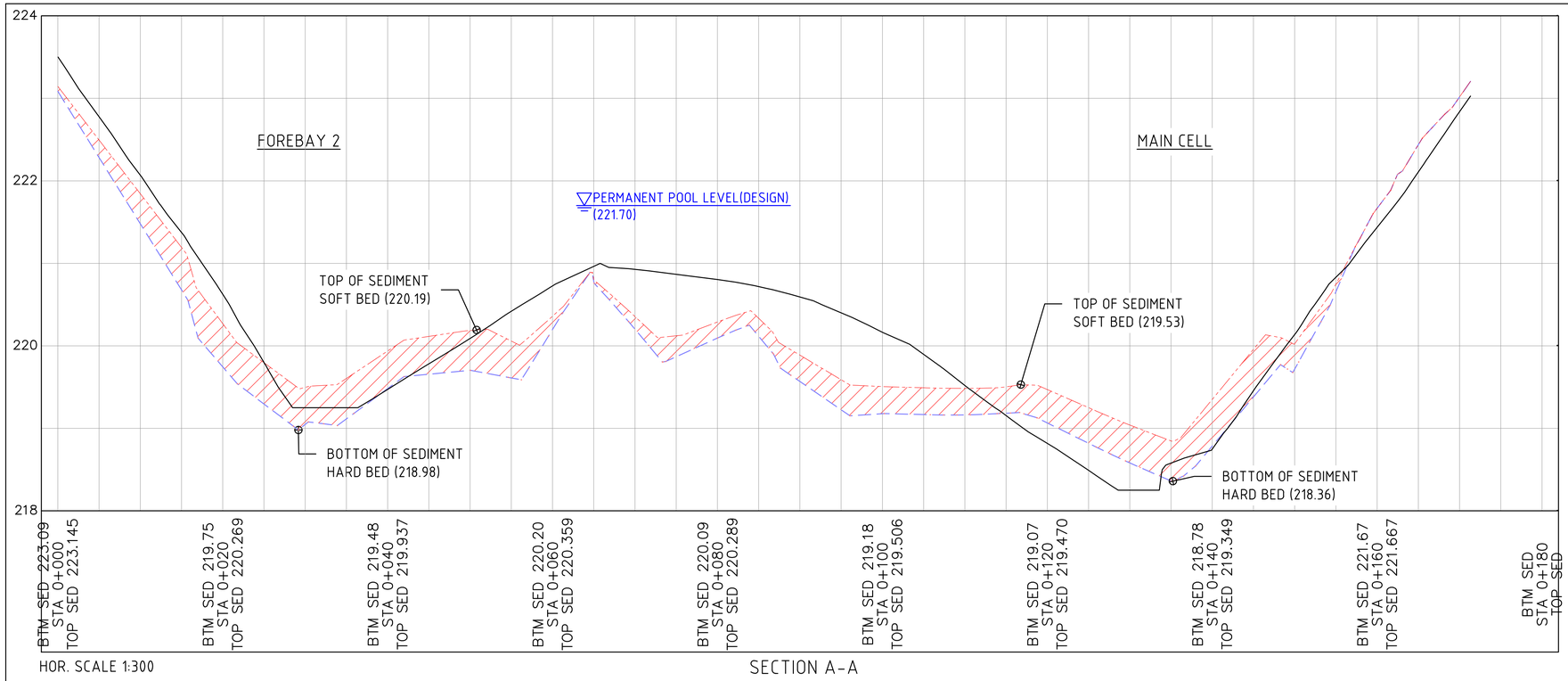
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POND BATHYMETRIC SEDIMENTATION ANALYSIS

HERITAGE PARK STORMWATER POND

SCALE : 1:300



HOR. SCALE 1:300
VERT. SCALE 1:30

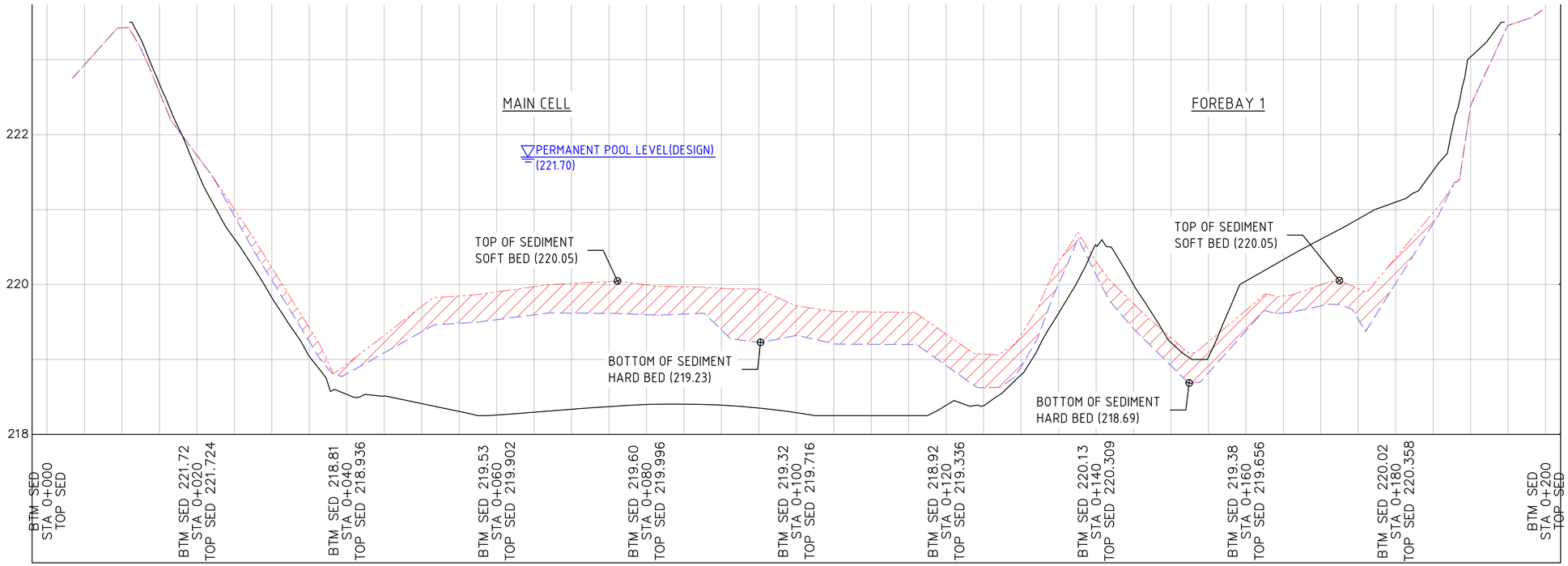
SECTION A-A

Elevations Table			
Number	Minimum Elevation	Maximum Elevation	Color
1	−0.92	−0.44	
2	−0.44	−0.38	
3	−0.38	−0.33	
4	−0.33	−0.25	
5	−0.25	−0.17	
6	−0.17	−0.06	
7	−0.06	0.00	
8	0.00	0.62	

DEPTH OF SEDIMENT IDENTIFIED BY BATHYMETRIC SURVEY

NOTES:

2567m^3 OF SEDIMENT TO BE REMOVED FROM POND TO ACHIEVE AS-CONSTRUCTED VOLUME BASED ON SURVEY.



HOR. SCALE 1:300
VERT. SCALE 1:30

SECTION B-B

NO.	REVISION	BY	MM/DD/YY
1.	1ST SUBMISSION	MNR	11/12/2024
2.	ISSUED FOR APPROVAL	MNR	08/17/2025

DESIGNED BY: Dr. Bahar SM

APPROVED BY:

DRAWN BY: Moniruzzaman Rayhan

DATE: (MM/DD/YY) 08/17/2025

SHEET No. 12 OF 29

DWG. No. AHYD-0311

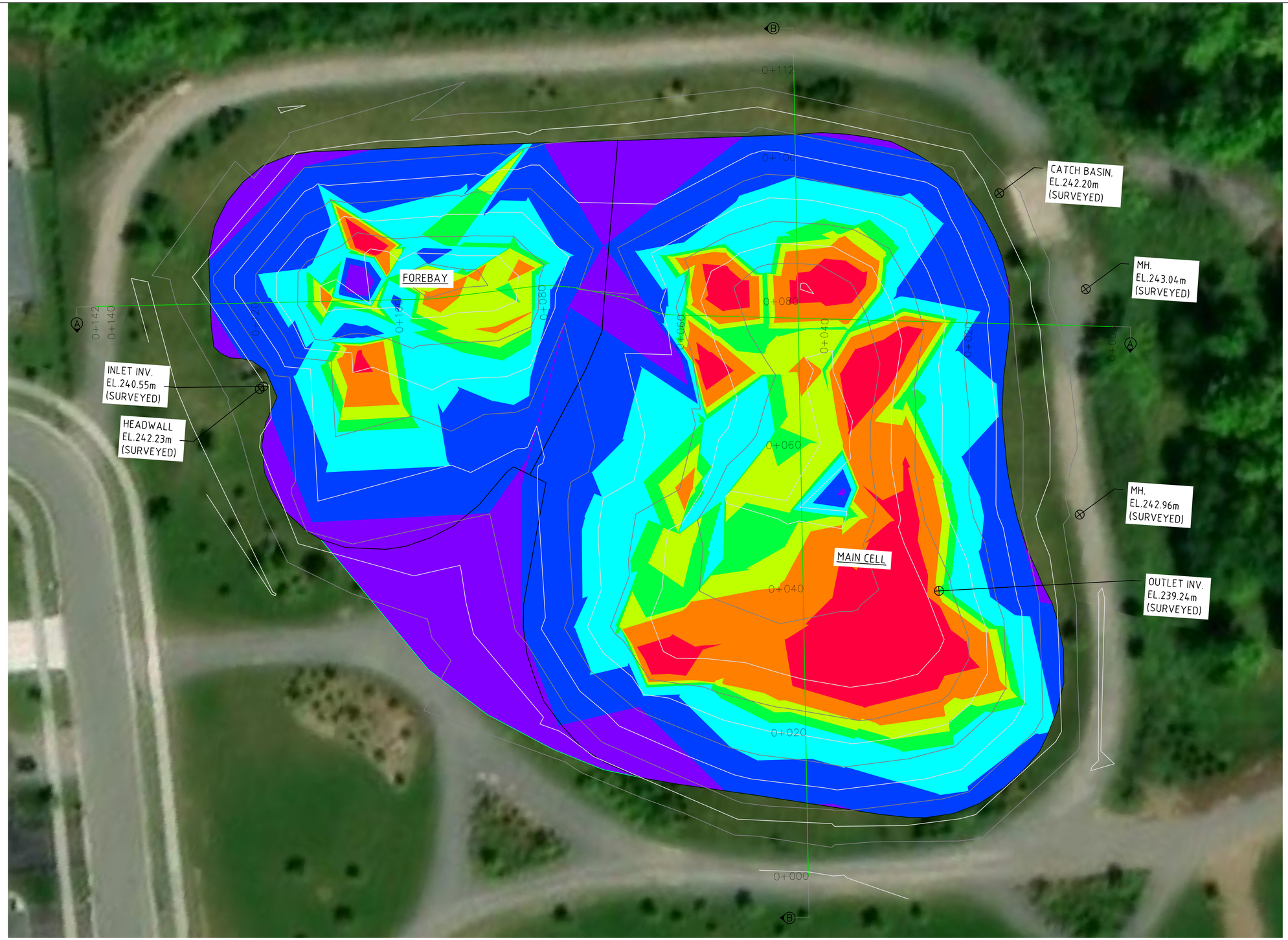
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POND BATHYMETRIC SEDIMENTATION ANALYSIS

HERITAGE PARK STORMWATER POND

SCALE : 1:300



POND PLAN VIEW

SCALE 1:250

NO.	REVISION	BY	MM/DD/YY
1.	1ST SUBMISSION	MNR	11/12/2024
2.	ISSUED FOR APPROVAL	MNR	08/17/2025

DESIGNED BY: Dr. Bahar SM

APPROVED BY:

DRAWN BY: Moniruzzaman Rayhan

DATE: (MM/DD/YY) 08/17/2025

SHEET No. 13 OF 29

DWG. No. AHYD-0311

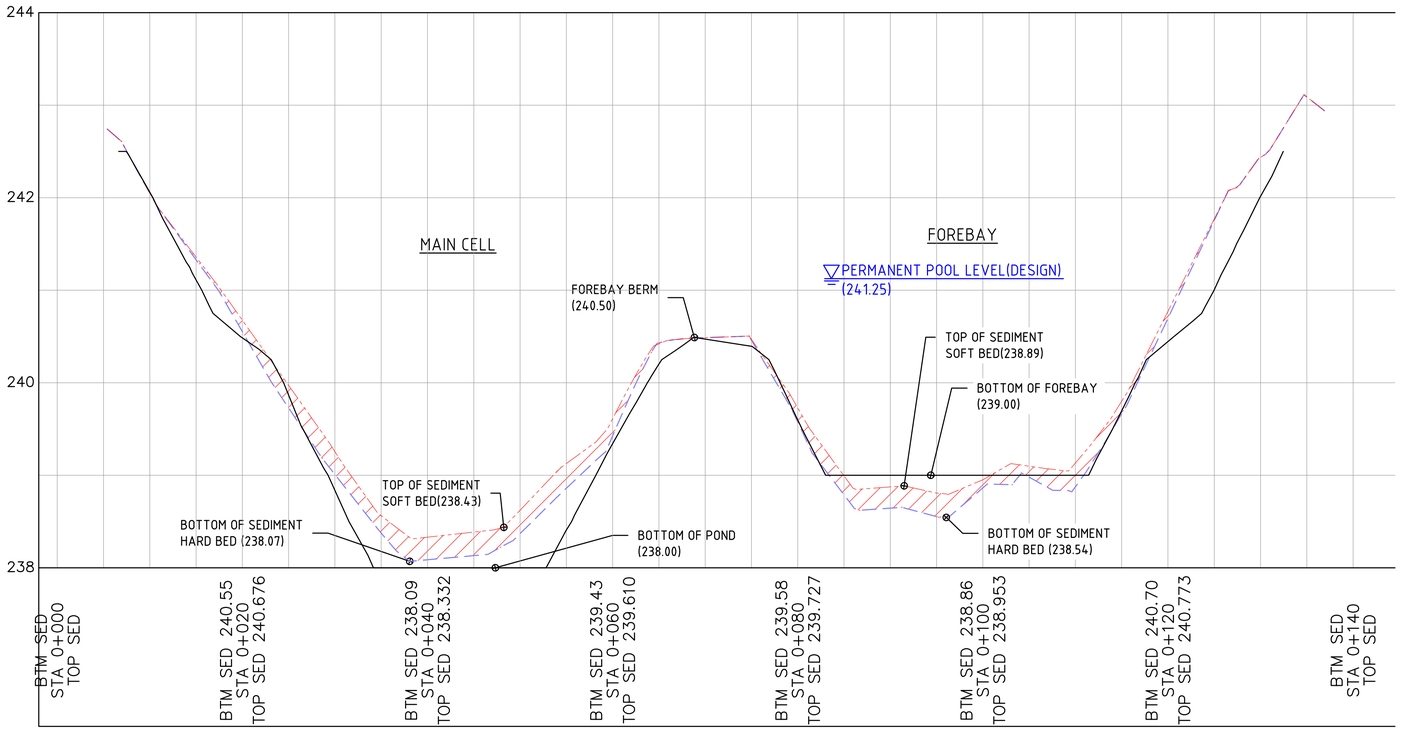
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POND BATHYMETRIC SEDIMENTATION ANALYSIS

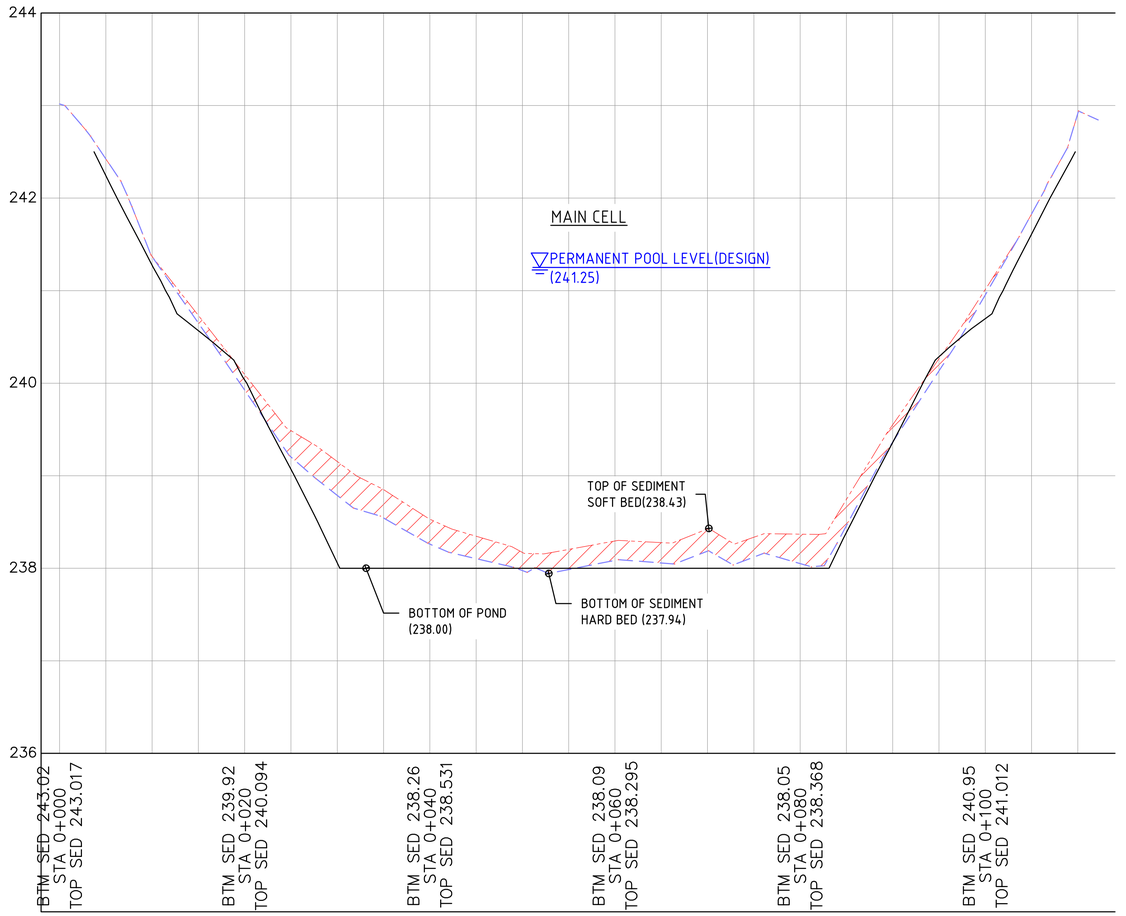
JACKSON MEADOWS STORMWATER POND

SCALE : 1:250



HOR. SCALE 1:300
VERT. SCALE 1:30

SECTION A-A



HOR. SCALE 1:300
VERT. SCALE 1:30

SECTION B-B

Elevations Table			
Number	Minimum Elevation	Maximum Elevation	Color
1	−0.49	−0.31	
2	−0.31	−0.24	
3	−0.24	−0.21	
4	−0.21	−0.19	
5	−0.19	−0.10	
6	−0.10	0.00	
7	0.00	0.20	

DEPTH OF SEDIMENT IDENTIFIED BY BATHYMETRIC SURVEY

NOTES:

1204m^3 OF SEDIMENT TO BE REMOVED FROM POND TO ACHIEVE AS-CONSTRUCTED VOLUME BASED ON SURVEY.

NO.	REVISION	BY	MM/DD/YY
1.	1ST SUBMISSION	MNR	11/12/2024
2.	ISSUED FOR APPROVAL	MNR	08/17/2025

DESIGNED BY: Dr. Bahar SM

APPROVED BY:

DRAWN BY: Moniruzzaman Rayhan

DATE: (MM/DD/YY) 08/17/2025

SHEET No. 14 OF 29

DWG. No. AHYD-0311

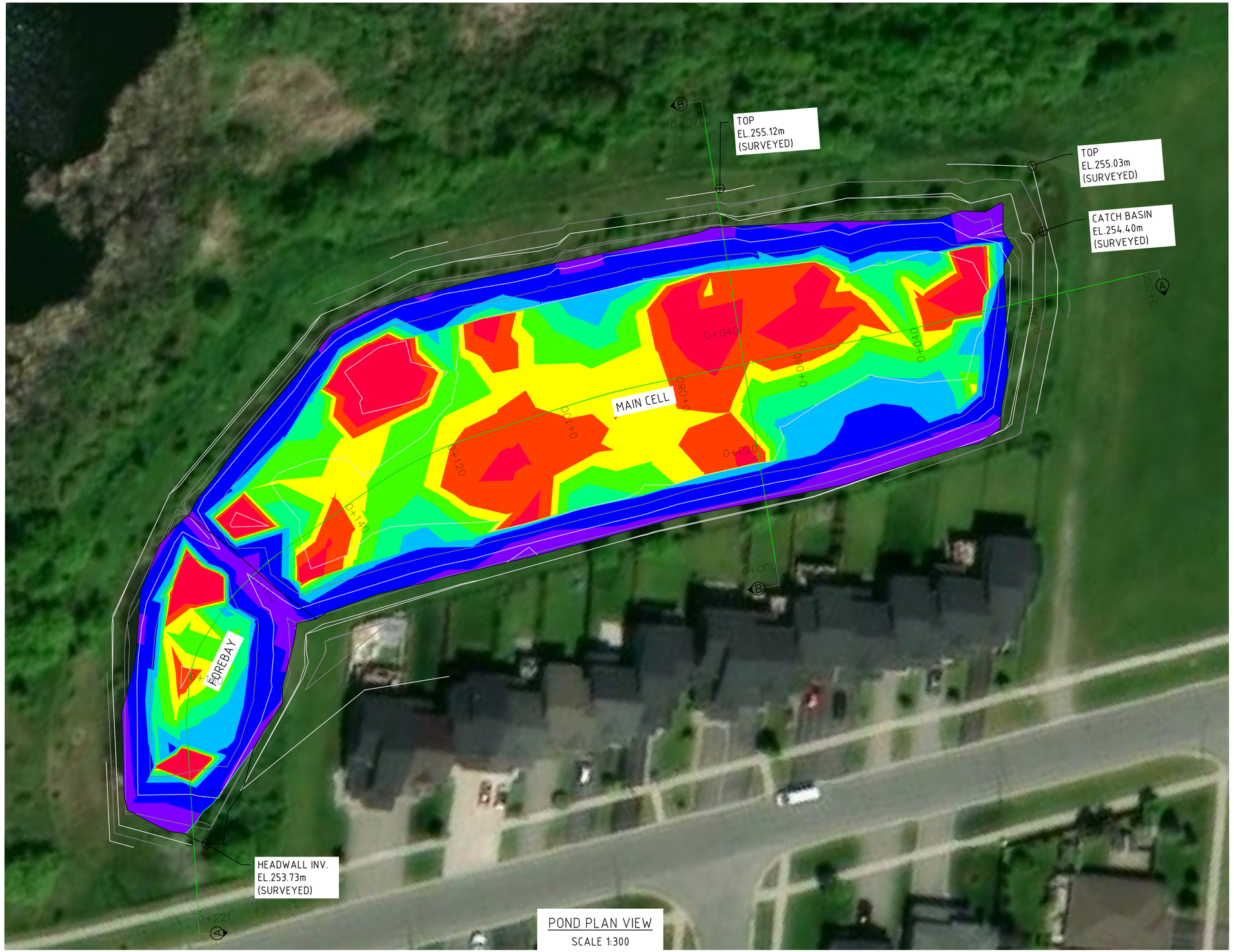
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JACKSON MEADOWS STORMWATER POND

SCALE : 1:300



POND PLAN VIEW
SCALE 1:300

NO.	REVISION	BY	MM/DD/YY
1.	1ST SUBMISSION	MNR	11/12/2024
2.	ISSUED FOR APPROVAL	MNR	08/17/2025

DESIGNED BY: Dr. Bahar SM

APPROVED BY:

DRAWN BY: Moniruzzaman Rayhan

DATE: (MM/DD/YY) 08/17/2025

SHEET No. 15 OF 29

DWG. No. AHYD-0311

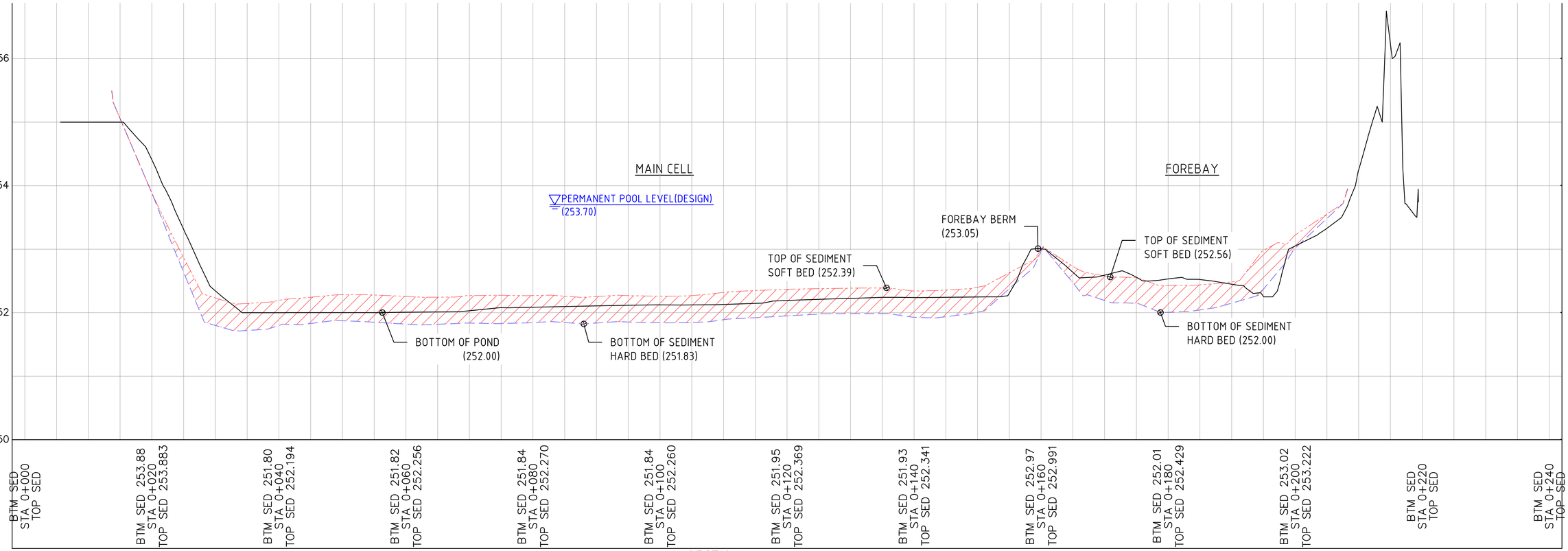
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POND BATHYMETRIC SEDIMENTATION ANALYSIS

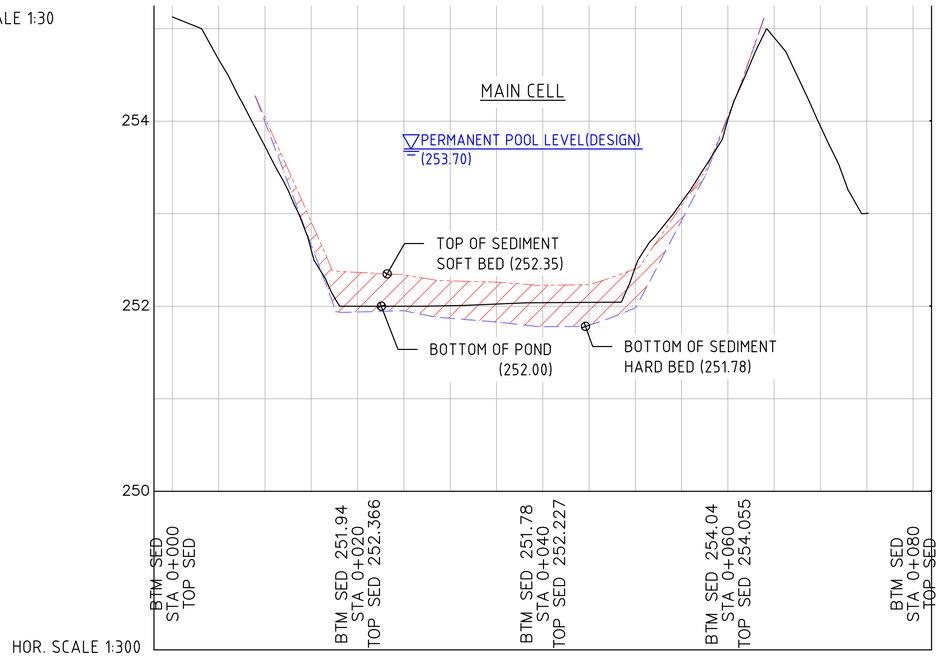
LOGGERHEAD 1
STORMWATER POND

SCALE : 1:300



HOR. SCALE 1:300
VERT. SCALE 1:30

SECTION A-A



HOR. SCALE 1:300
VERT. SCALE 1:30

SECTION B-B

Elevations Table			
Number	Minimum Elevation	Maximum Elevation	Color
1	−0.70	−0.44	
2	−0.44	−0.42	
3	−0.42	−0.41	
4	−0.41	−0.39	
5	−0.39	−0.35	
6	−0.35	−0.30	
7	−0.30	−0.13	
8	−0.13	0.00	

DEPTH OF SEDIMENT
IDENTIFIED BY
BATHYMETRIC SURVEY

NOTES:

2319m^3 OF SEDIMENT TO BE REMOVED FROM POND TO ACHIEVE AS-CONSTRUCTED VOLUME BASED ON SURVEY.

NO.	REVISION	BY	MM/DD/YY
1.	1ST SUBMISSION	MNR	11/12/2024
2.	ISSUED FOR APPROVAL	MNR	08/17/2025

DESIGNED BY: Dr. Bahar SM

APPROVED BY:

DRAWN BY: Moniruzzaman Rayhan

DATE: (MM/DD/YY) 08/17/2025

SHEET No. 16 OF 29

DWG. No. AHYD-0311

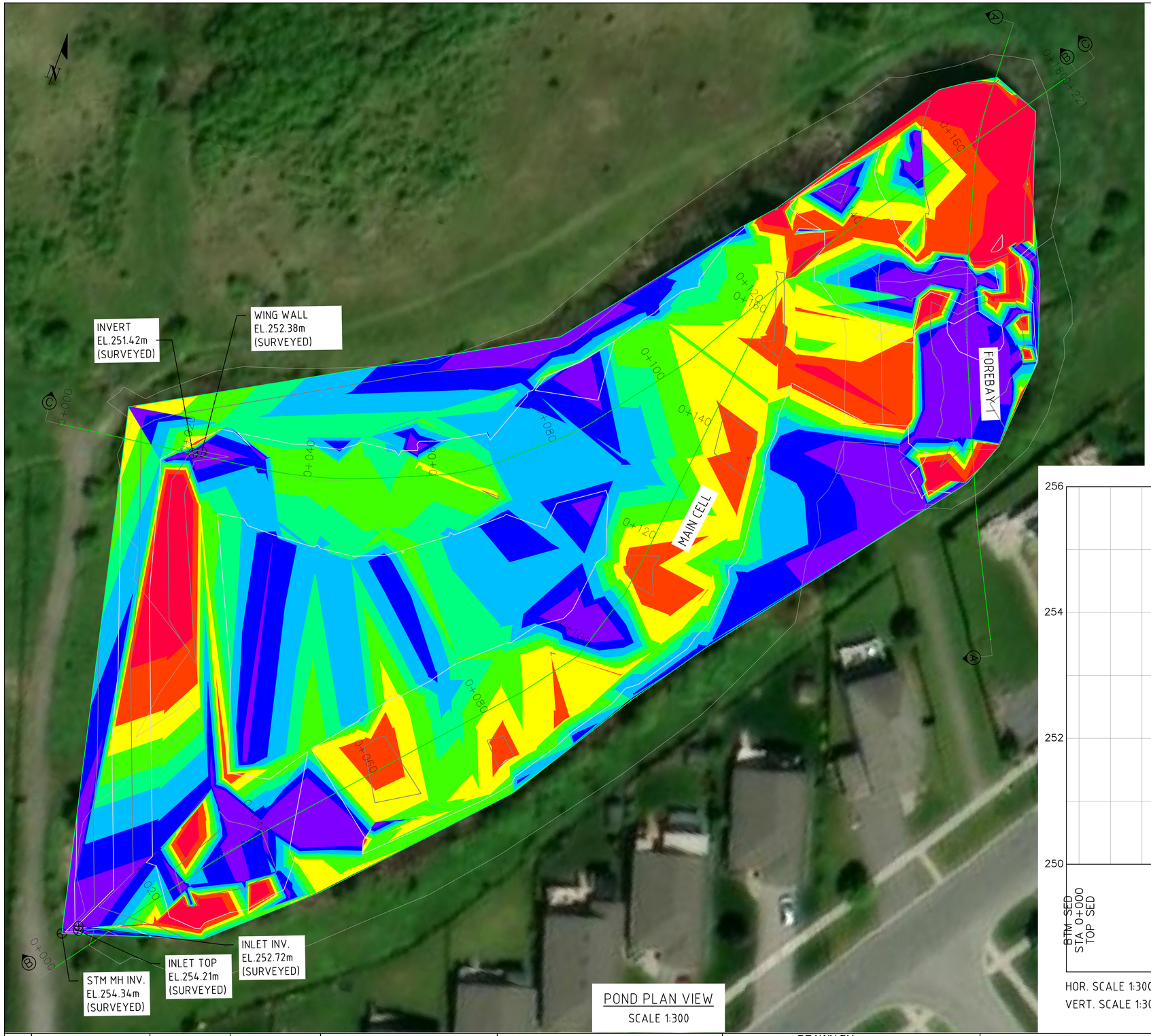
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POND BATHYMETRIC SEDIMENTATION ANALYSIS

LOGGERHEAD 1
STORMWATER POND

SCALE : 1:300

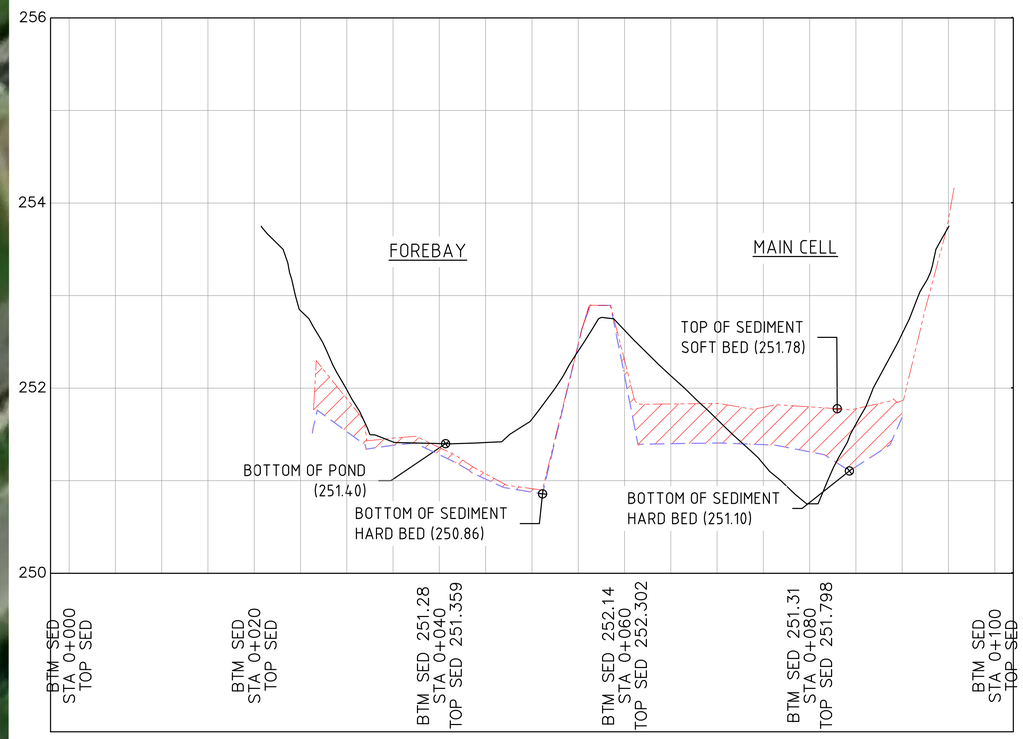


POND PLAN VIEW
SCALE 1:300

Elevations Table			
Number	Minimum Elevation	Maximum Elevation	Color
1	−0.96	−0.46	
2	−0.46	−0.36	
3	−0.36	−0.30	
4	−0.30	−0.25	
5	−0.25	−0.21	
6	−0.21	−0.15	
7	−0.15	−0.09	
8	−0.09	0.28	

DEPTH OF SEDIMENT IDENTIFIED BY BATHYMETRIC SURVEY

NOTES:
2409m^3 OF SEDIMENT TO BE REMOVED FROM POND TO ACHIEVE AS-CONSTRUCTED VOLUME BASED ON SURVEY.



HOR. SCALE 1:300
VERT. SCALE 1:30

SECTION A-A

NO.	REVISION	BY	MM/DD/YY
1.	1ST SUBMISSION	MNR	11/12/2024
2.	ISSUED FOR APPROVAL	MNR	08/17/2025

DESIGNED BY: Dr. Bahar SM

APPROVED BY:

DRAWN BY: Moniruzzaman Rayhan

DATE: (MM/DD/YY) 08/17/2025

SHEET No. 17 OF 29

DWG. No. AHYD-0311

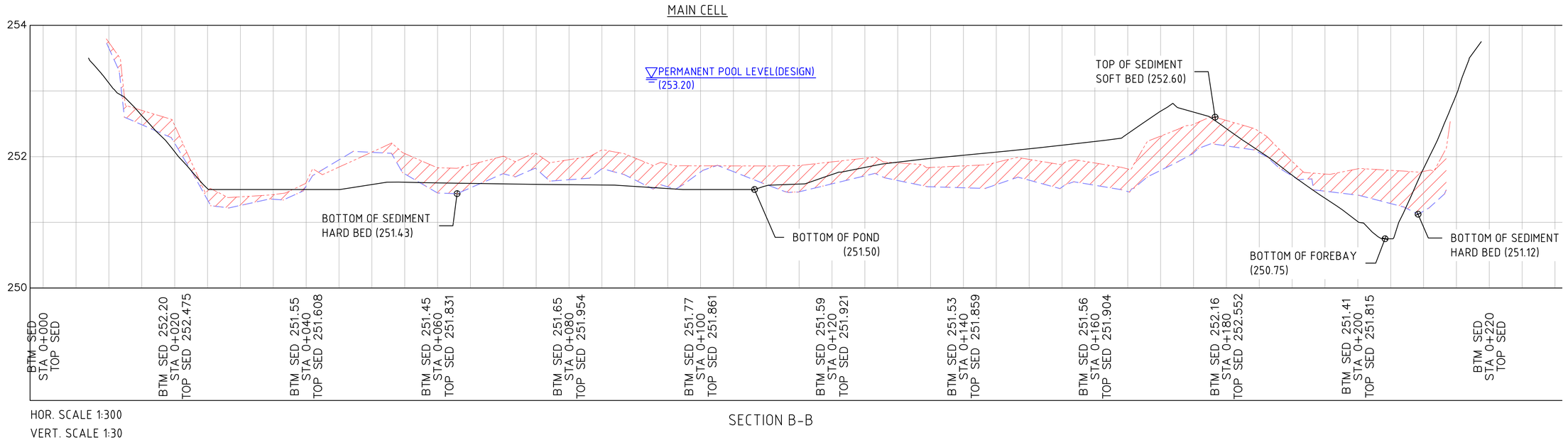
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POND BATHYMETRIC SEDIMENTATION ANALYSIS

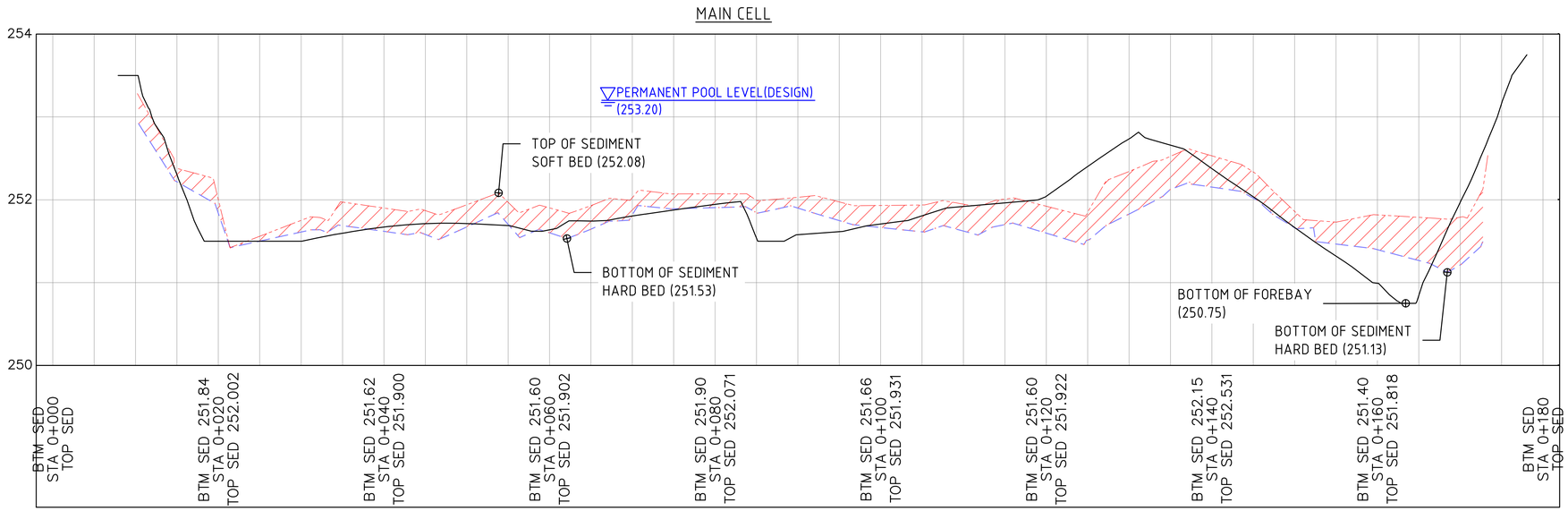
LOGGERHEAD 2
STORMWATER POND

SCALE : 1:300



HOR. SCALE 1:300
VERT. SCALE 1:30

SECTION B-B



HOR. SCALE 1:300
VERT. SCALE 1:30

SECTION C-C

NO.	REVISION	BY	MM/DD/YY
1.	1ST SUBMISSION	MNR	11/12/2024
2.	ISSUED FOR APPROVAL	MNR	08/17/2025

DESIGNED BY: Dr. Bahar SM

APPROVED BY:

DRAWN BY: Moniruzzaman Rayhan

DATE: (MM/DD/YY) 08/17/2025

SHEET No. 18 OF 29

DWG. No. AHYD-0311

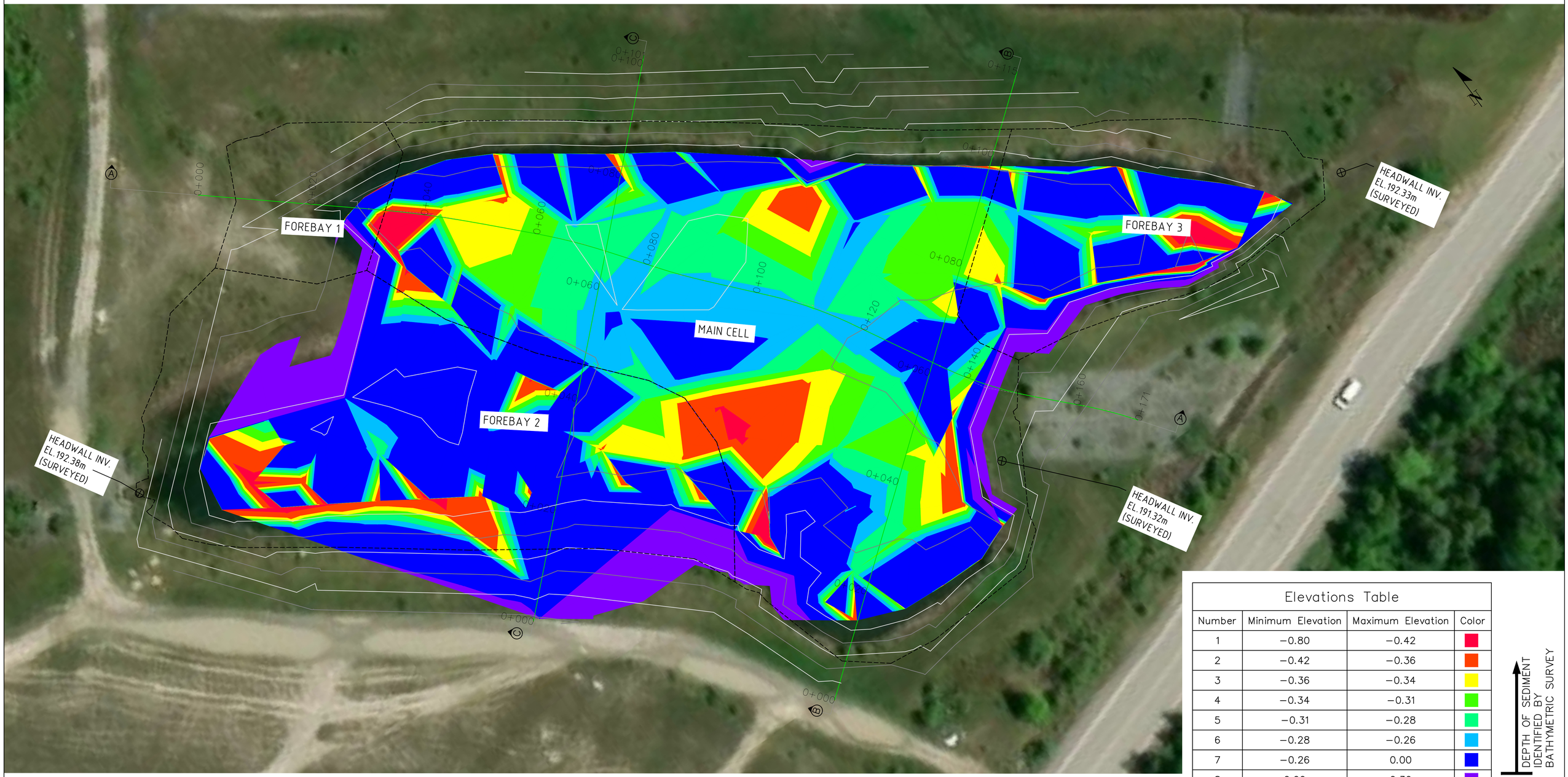
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POND BATHYMETRIC SEDIMENTATION ANALYSIS

LOGGERHEAD 2
STORMWATER POND

SCALE : 1:300



POND PLAN VIEW

SCALE 1:300

Elevations Table			
Number	Minimum Elevation	Maximum Elevation	Color
1	−0.80	−0.42	
2	−0.42	−0.36	
3	−0.36	−0.34	
4	−0.34	−0.31	
5	−0.31	−0.28	
6	−0.28	−0.26	
7	−0.26	0.00	
8	0.00	0.30	

DEPTH OF SEDIMENT IDENTIFIED BY BATHYMETRIC SURVEY

NOTES:

2237m^3 OF SEDIMENT TO BE REMOVED FROM POND TO ACHIEVE AS−CONSTRUCTED VOLUME BASED ON SURVEY.

NO.	REVISION	BY	MM/DD/YY
1.	1ST SUBMISSION	MNR	11/12/2024
2.	ISSUED FOR APPROVAL	MNR	08/17/2025

DESIGNED BY: Dr. Bahar SM

APPROVED BY:

DRAWN BY: Moniruzzaman Rayhan

DATE: (MM/DD/YY) 08/17/2025

SHEET No. 19 OF 29

DWG. No. AHYD-0311

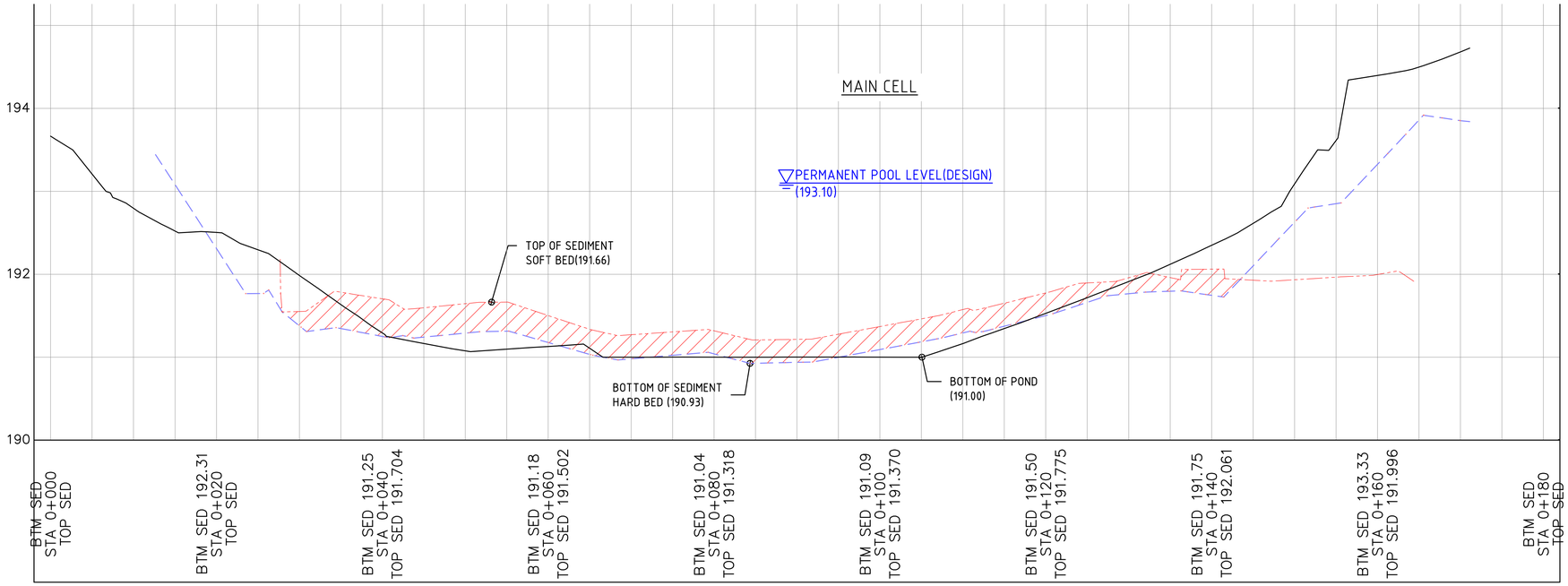
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POND BATHYMETRIC SEDIMENTATION ANALYSIS

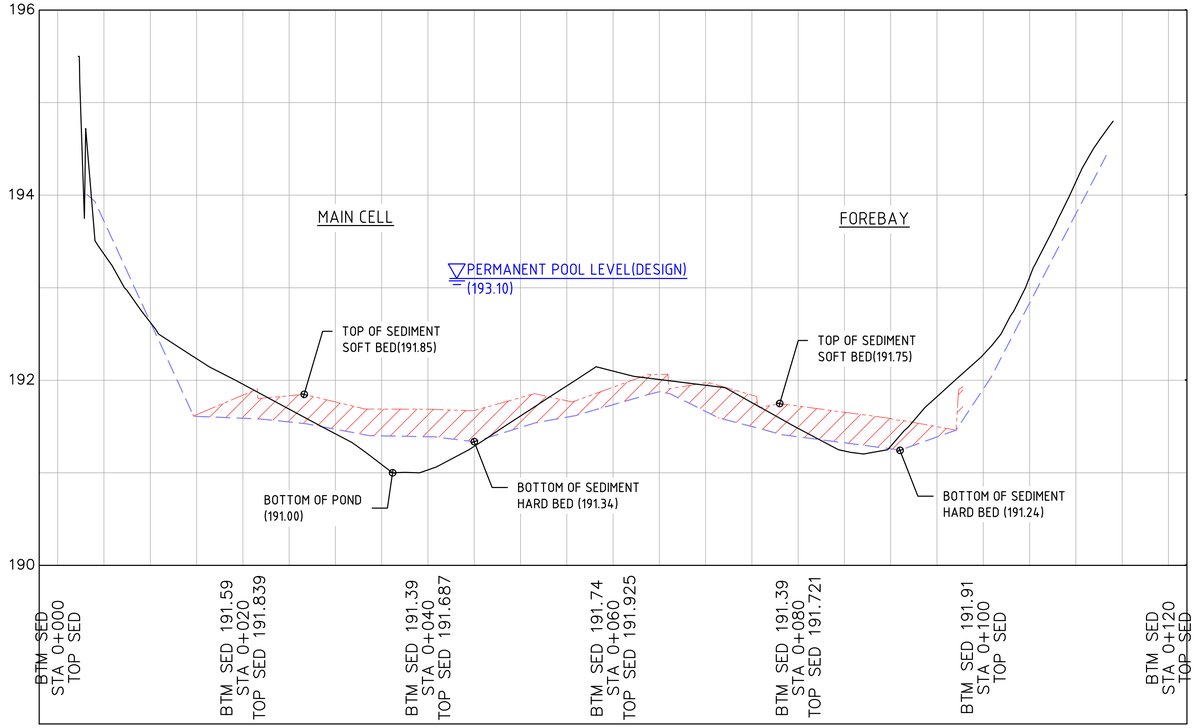
MAJOR BENNETT STORMWATER POND

SCALE : 1:300



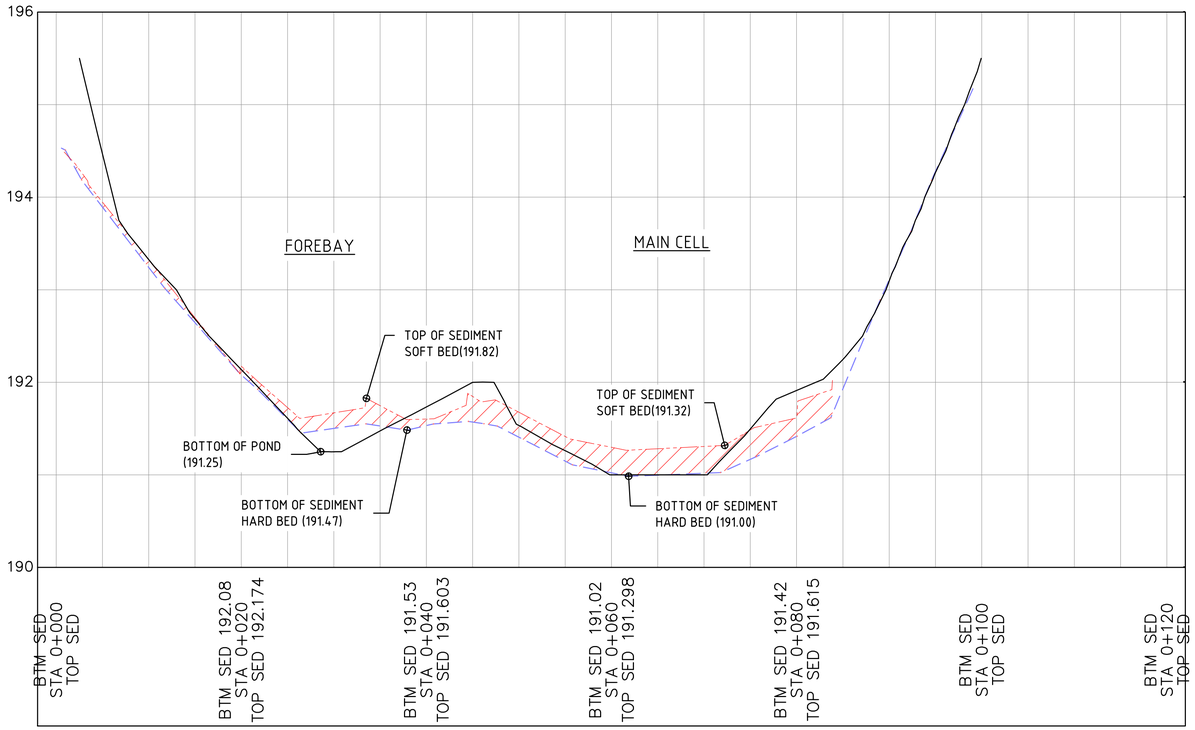
HOR. SCALE 1:300
VERT. SCALE 1:30

SECTION A-A



HOR. SCALE 1:300
VERT. SCALE 1:30

SECTION B-B



HOR. SCALE 1:300
VERT. SCALE 1:30

SECTION C-C

NO.	REVISION	BY	MM/DD/YY
1.	1ST SUBMISSION	MNR	11/12/2024
2.	ISSUED FOR APPROVAL	MNR	08/17/2025

DESIGNED BY: Dr. Bahar SM

APPROVED BY:

DRAWN BY: Moniruzzaman Rayhan

DATE: (MM/DD/YY) 08/17/2025

SHEET No. 20 OF 29

DWG. No. AHYD-0311

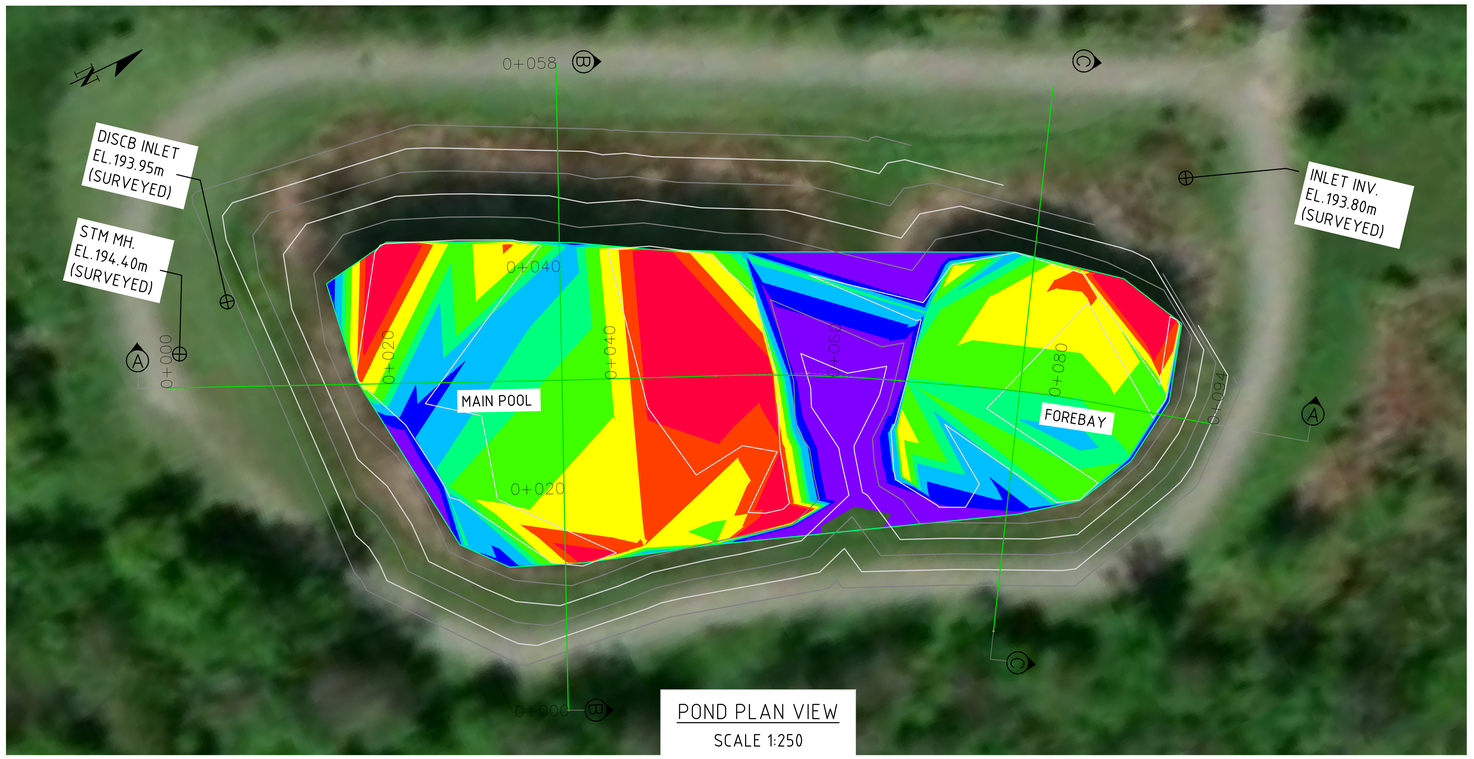
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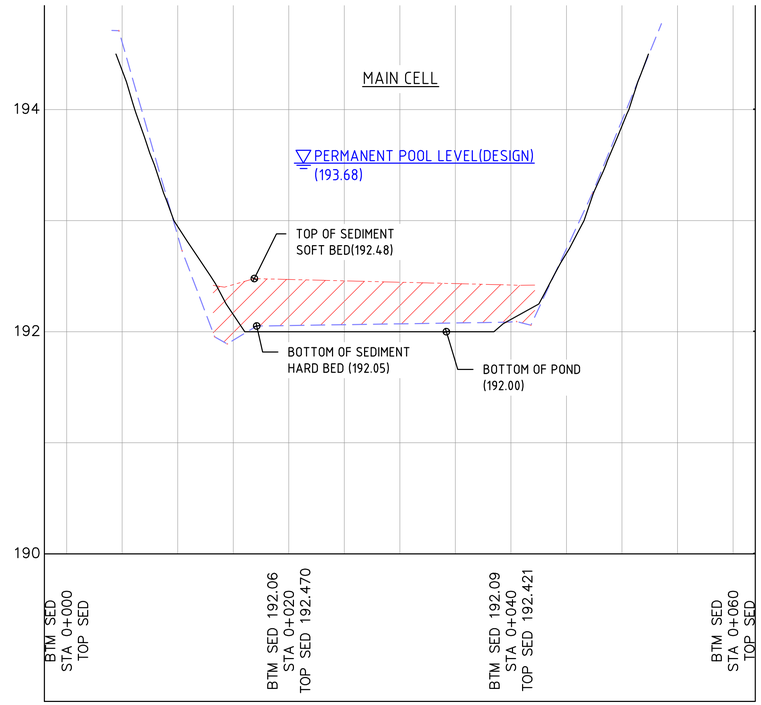
THE CITY OF PETERBOROUGH
POND BATHYMETRIC SEDIMENTATION ANALYSIS

MAJOR BENNETT STORMWATER POND

SCALE : 1:300

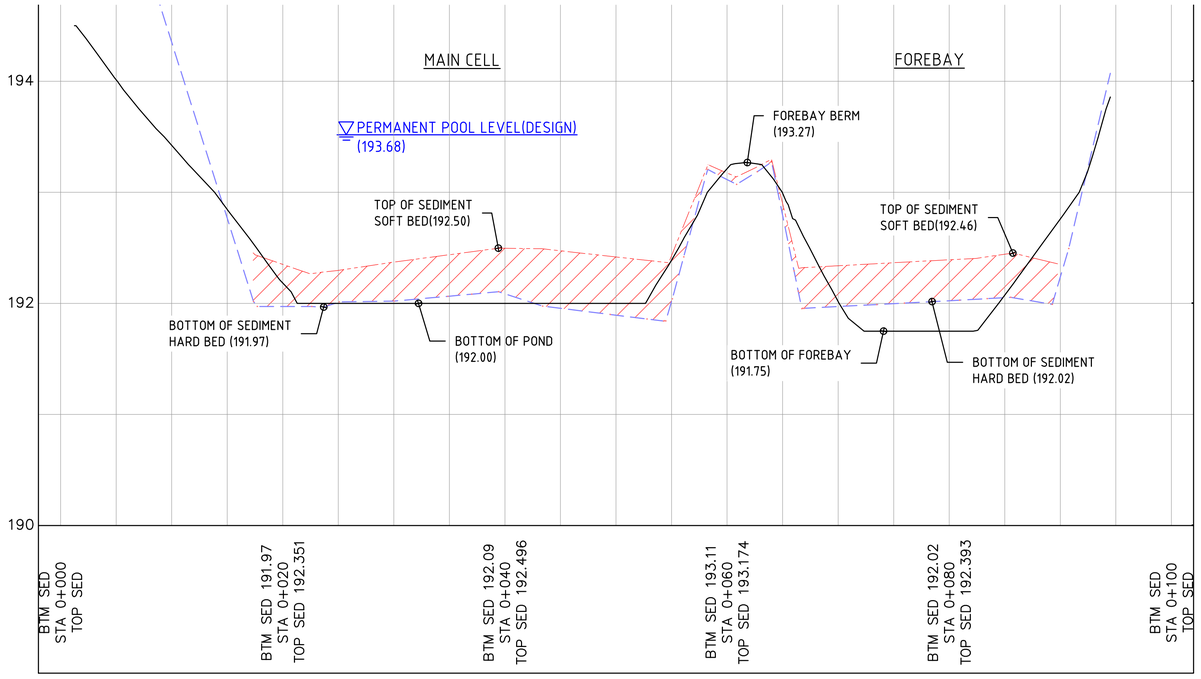


POND PLAN VIEW
SCALE 1:250



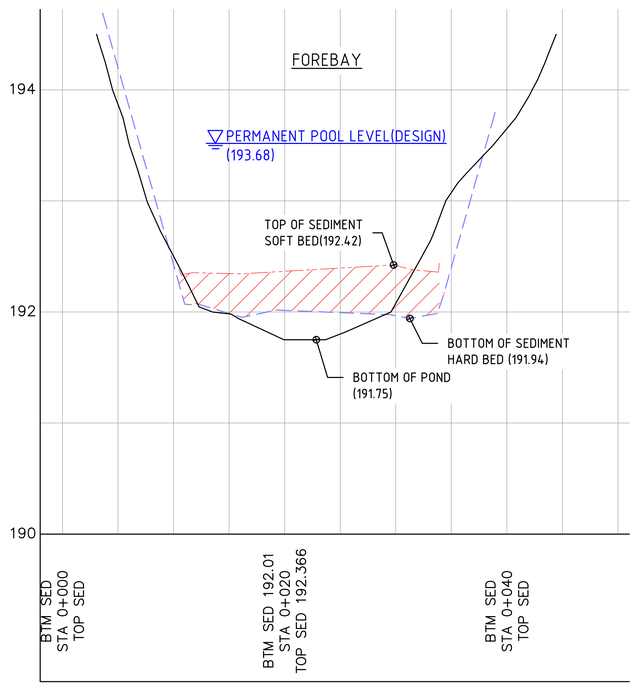
HOR. SCALE 1:250
VERT. SCALE 1:25

SECTION B-B



HOR. SCALE 1:250
VERT. SCALE 1:25

SECTION A-A



HOR. SCALE 1:250
VERT. SCALE 1:25

SECTION C-C

Elevations Table			
Number	Minimum Elevation	Maximum Elevation	Color
1	−0.77	−0.50	
2	−0.50	−0.46	
3	−0.46	−0.41	
4	−0.41	−0.37	
5	−0.37	−0.34	
6	−0.34	−0.29	
7	−0.29	−0.23	
8	−0.23	0.50	

DEPTH OF SEDIMENT IDENTIFIED BY BATHYMETRIC SURVEY

NOTES:
657m^3 OF SEDIMENT TO BE REMOVED FROM POND TO ACHIEVE AS-CONSTRUCTED VOLUME BASED ON SURVEY.

NO.	REVISION	BY	MM/DD/YY
1.	1ST SUBMISSION	MNR	11/12/2024
2.	ISSUED FOR APPROVAL	MNR	08/17/2025

DESIGNED BY: Dr. Bahar SM

APPROVED BY:

DRAWN BY: Moniruzzaman Rayhan

DATE: (MM/DD/YY) 08/17/2025

SHEET No. 21 OF 29

DWG. No. AHYD-0311

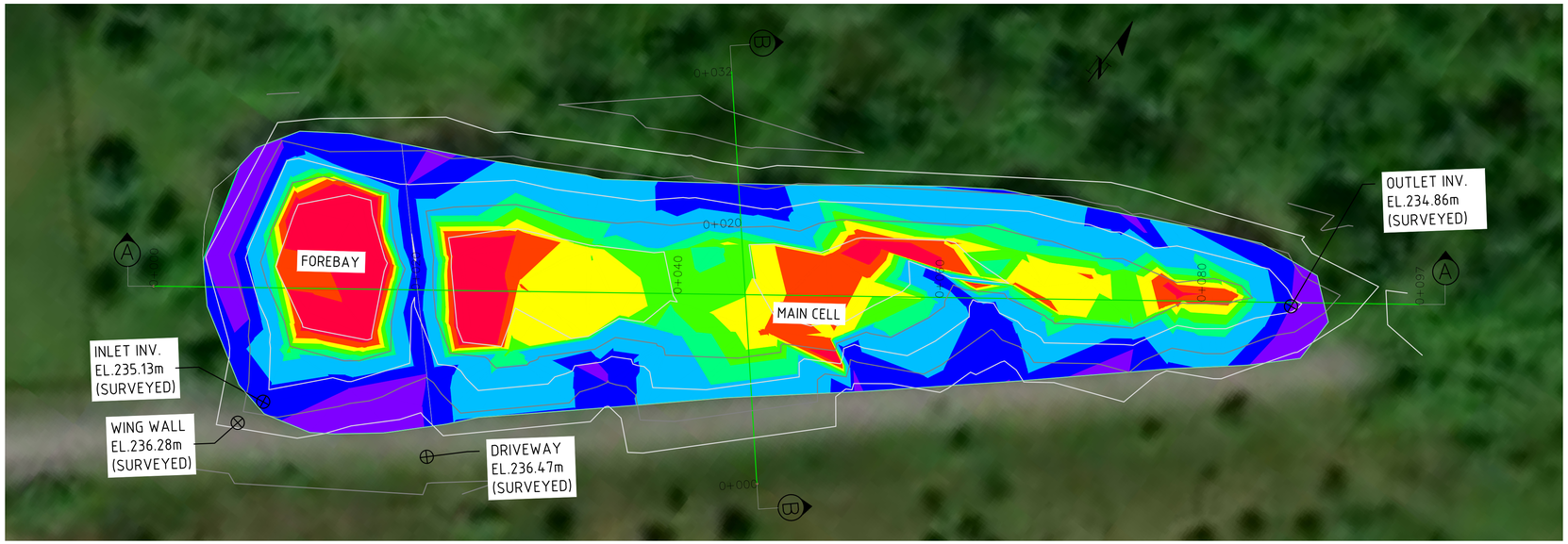
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POND BATHYMETRIC SEDIMENTATION ANALYSIS

MEADOWS STORMWATER POND

SCALE : 1:250



POND PLAN VIEW

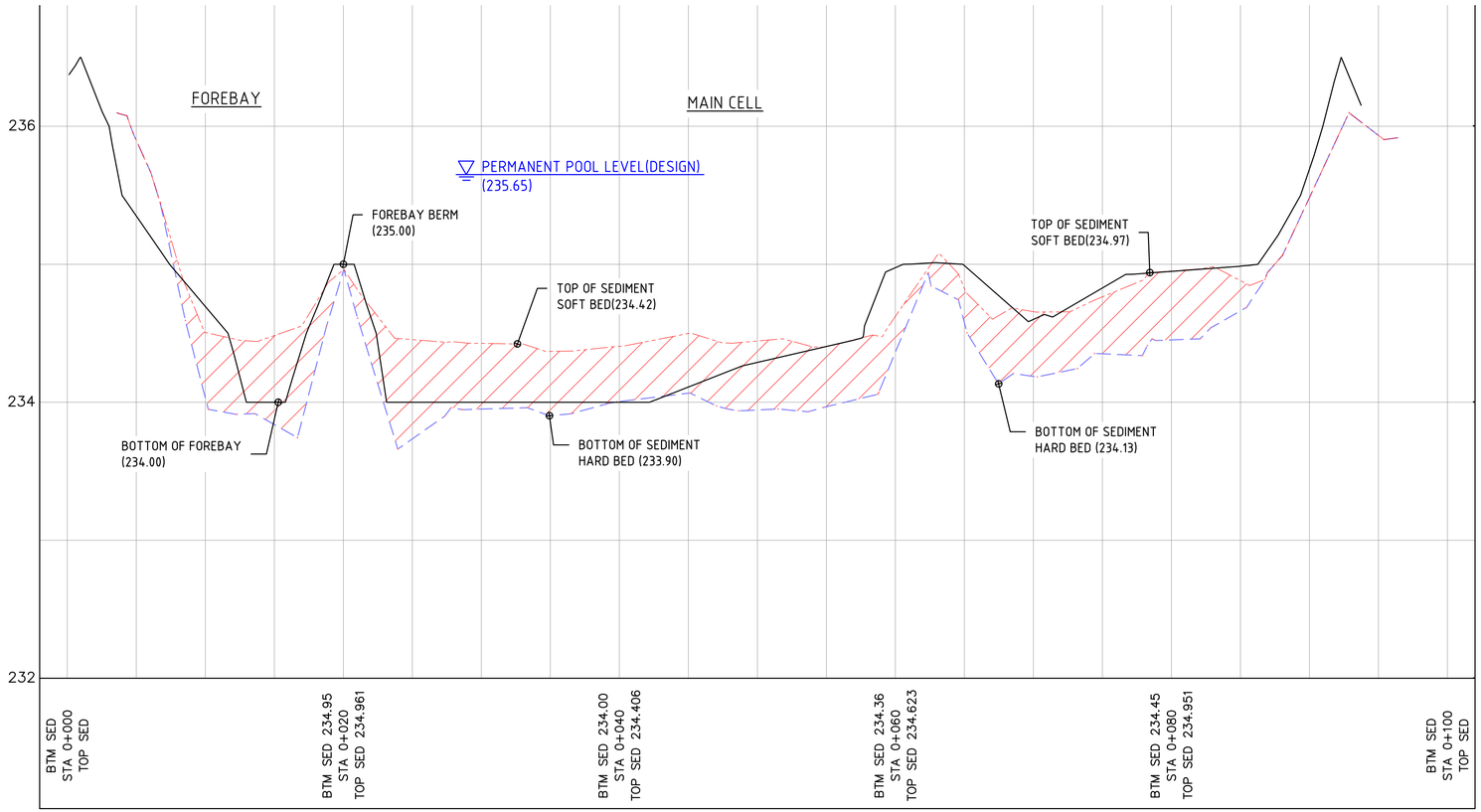
SCALE 1:200

Elevations Table			
Number	Minimum Elevation	Maximum Elevation	Color
1	−0.91	−0.56	
2	−0.56	−0.48	
3	−0.48	−0.44	
4	−0.44	−0.38	
5	−0.38	−0.32	
6	−0.32	−0.13	
7	−0.13	0.00	
8	0.00	0.14	

DEPTH OF SEDIMENT IDENTIFIED BY BATHYMETRIC SURVEY

NOTES:

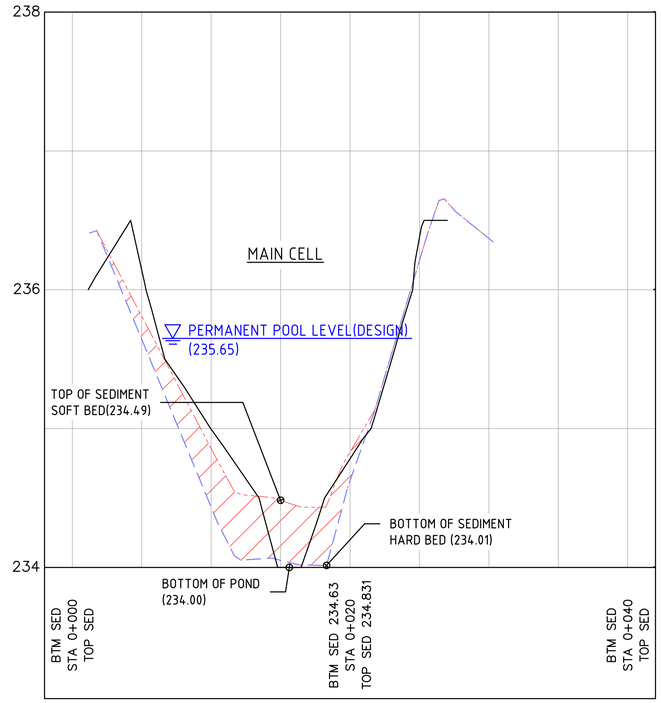
393m^3 OF SEDIMENT TO BE REMOVED FROM POND TO ACHIEVE AS−CONSTRUCTED VOLUME BASED ON SURVEY.



HOR. SCALE 1:200

VERT. SCALE 1:20

SECTION A-A



HOR. SCALE 1:200

VERT. SCALE 1:20

SECTION B-B

NO.	REVISION	BY	MM/DD/YY
1.	1ST SUBMISSION	MNR	11/12/2024
2.	ISSUED FOR APPROVAL	MNR	08/17/2025

DESIGNED BY: Dr. Bahar SM

APPROVED BY:

DRAWN BY: Moniruzzaman Rayhan

DATE: (MM/DD/YY) 08/17/2025

SHEET No. 22 OF 29

DWG. No. AHYD-0311

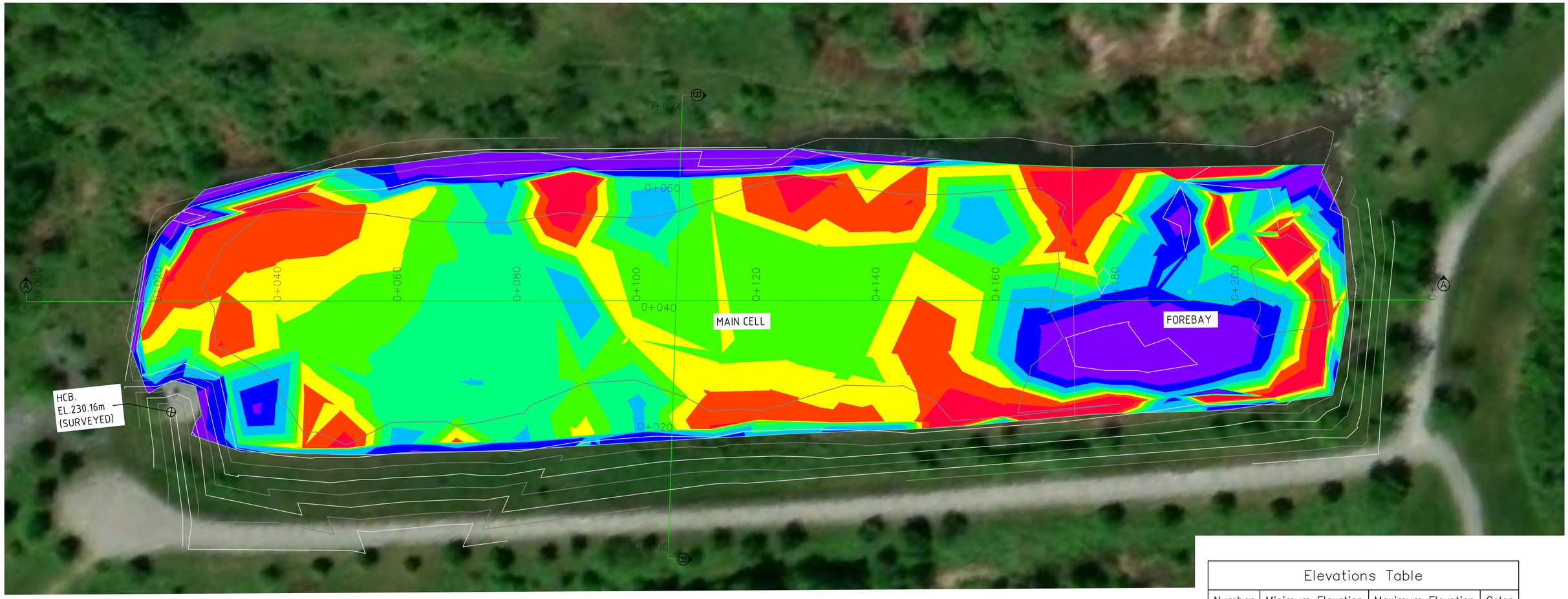
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RAYMOND STREET STORMWATER POND

SCALE : 1:300



POND PLAN VIEW

SCALE 1:300

Elevations Table			
Number	Minimum Elevation	Maximum Elevation	Color
1	−0.77	−0.34	
2	−0.34	−0.31	
3	−0.31	−0.29	
4	−0.29	−0.27	
5	−0.27	−0.23	
6	−0.23	−0.19	
7	−0.19	−0.12	
8	−0.12	0.28	

DEPTH OF SEDIMENT IDENTIFIED BY BATHYMETRIC SURVEY

NOTES:

2279m^3 OF SEDIMENT TO BE REMOVED FROM POND TO ACHIEVE AS−CONSTRUCTED VOLUME BASED ON SURVEY.

NO.	REVISION	BY	MM/DD/YY
1.	1ST SUBMISSION	MNR	11/12/2024
2.	ISSUED FOR APPROVAL	MNR	08/17/2025

DESIGNED BY: Dr. Bahar SM

APPROVED BY:

DRAWN BY: Moniruzzaman Rayhan

DATE: (MM/DD/YY) 08/17/2025

SHEET No. 23OF 29

DWG. No. AHYD-0311

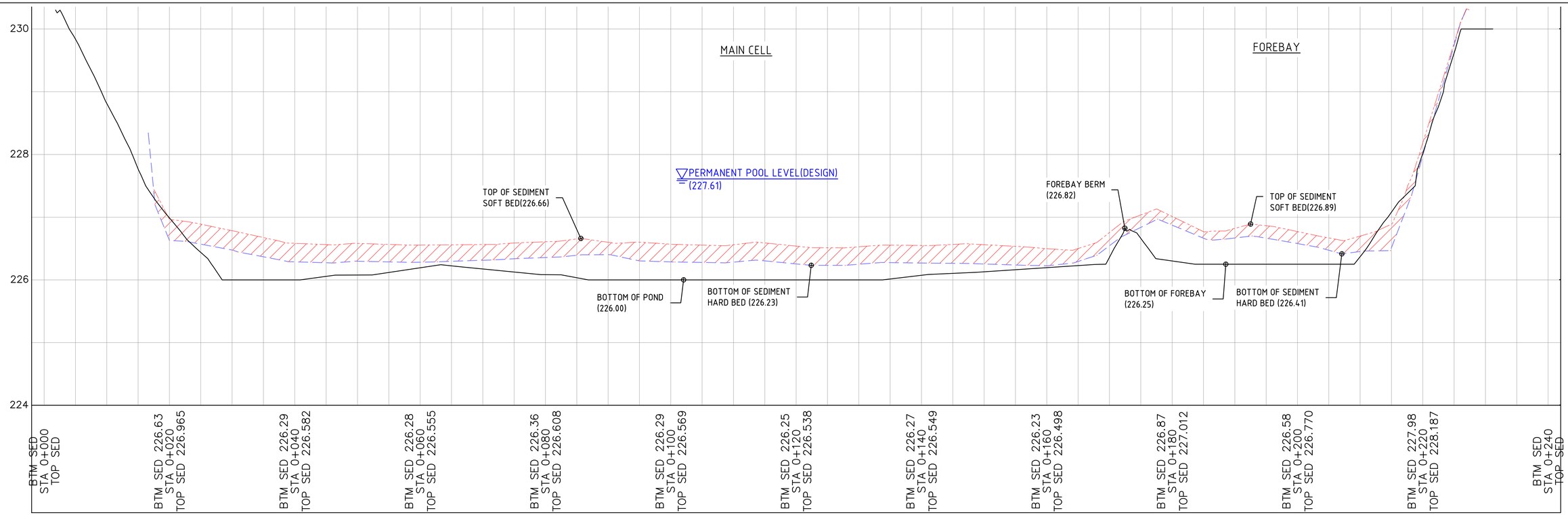
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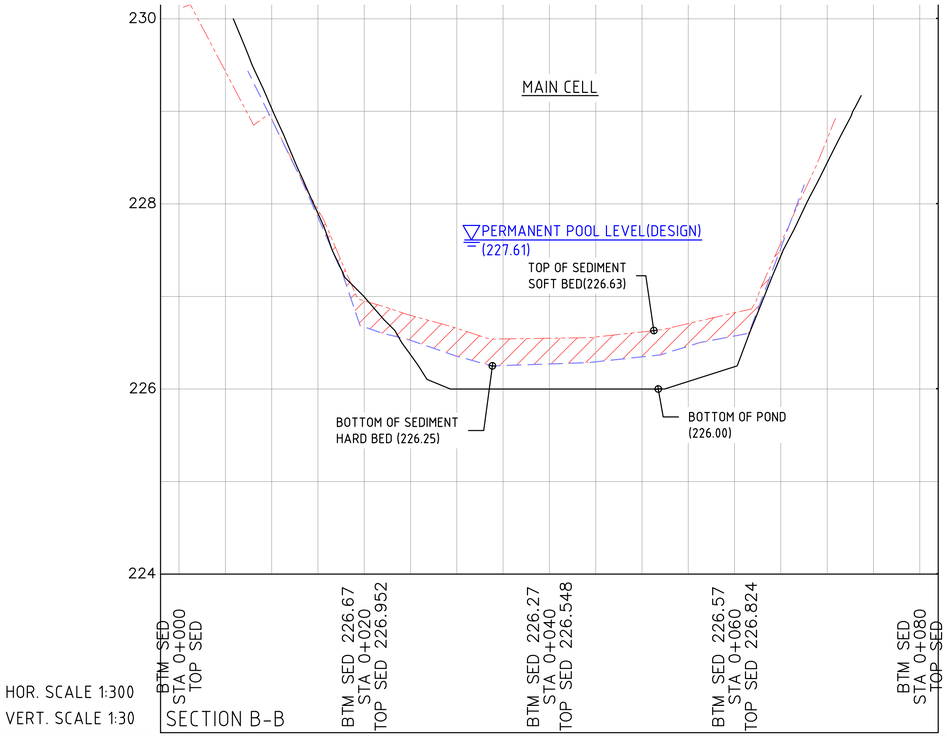
TOWERHILL NORTH STORMWATER POND

SCALE : 1:300



HOR. SCALE 1:300
VERT. SCALE 1:30

SECTION A-A



HOR. SCALE 1:300
VERT. SCALE 1:30

SECTION B-B

NO.	REVISION	BY	MM/DD/YY
1.	1ST SUBMISSION	MNR	11/12/2024
2.	ISSUED FOR APPROVAL	MNR	08/17/2025

DESIGNED BY: Dr. Bahar SM

APPROVED BY:

DRAWN BY: Moniruzzaman Rayhan

DATE: (MM/DD/YY) 08/17/2025

SHEET No. 24 OF 29

DWG. No. AHYD-0311

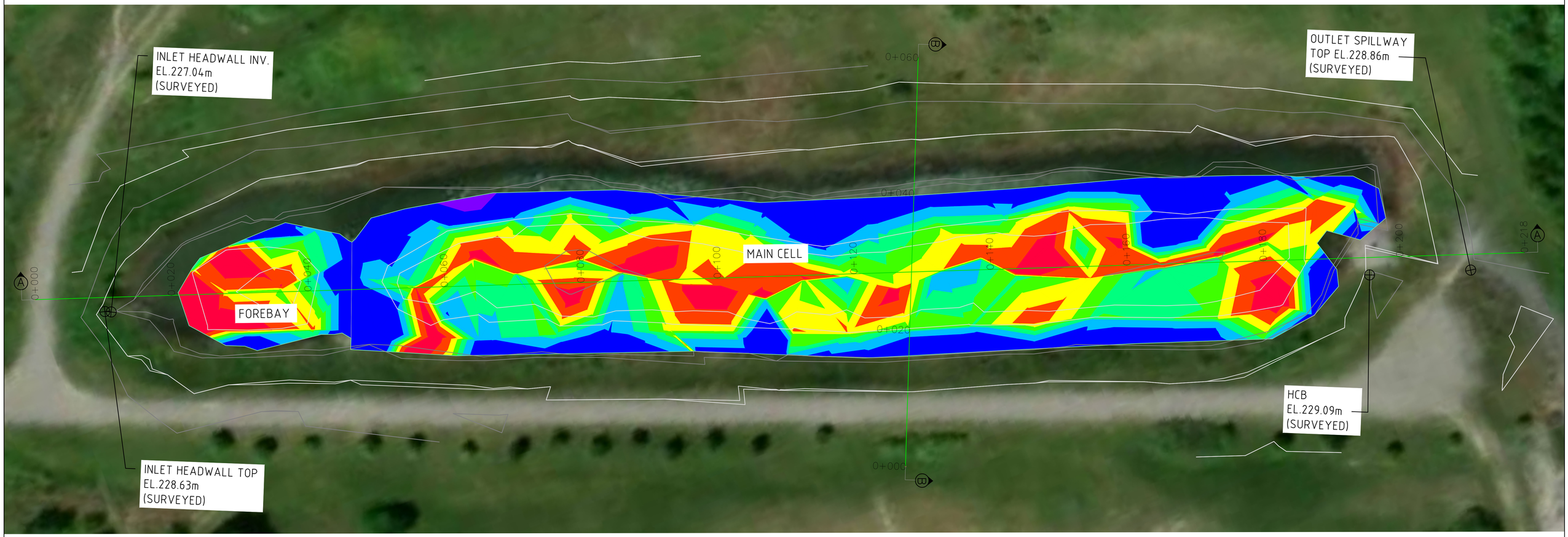
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POND BATHYMETRIC SEDIMENTATION ANALYSIS

TOWERHILL NORTH STORMWATER POND

SCALE : 1:300



POND PLAN VIEW

SCALE 1:300

Elevations Table			
Number	Minimum Elevation	Maximum Elevation	Color
1	−0.55	−0.34	
2	−0.34	−0.30	
3	−0.30	−0.27	
4	−0.27	−0.25	
5	−0.25	−0.23	
6	−0.23	−0.19	
7	−0.19	0.00	
8	0.00	0.06	

DEPTH OF SEDIMENT IDENTIFIED BY BATHYMETRIC SURVEY

NOTES:

908m^3 OF SEDIMENT TO BE REMOVED FROM POND TO ACHIEVE AS−CONSTRUCTED VOLUME BASED ON SURVEY.

NO.	REVISION	BY	MM/DD/YY
1.	1ST SUBMISSION	MNR	11/12/2024
2.	ISSUED FOR APPROVAL	MNR	08/17/2025

DESIGNED BY: Dr. Bahar SM

APPROVED BY:

DRAWN BY: Moniruzzaman Rayhan

DATE: (MM/DD/YY) 08/17/2025

SHEET No. 25 OF 29

DWG. No. AHYD-0311

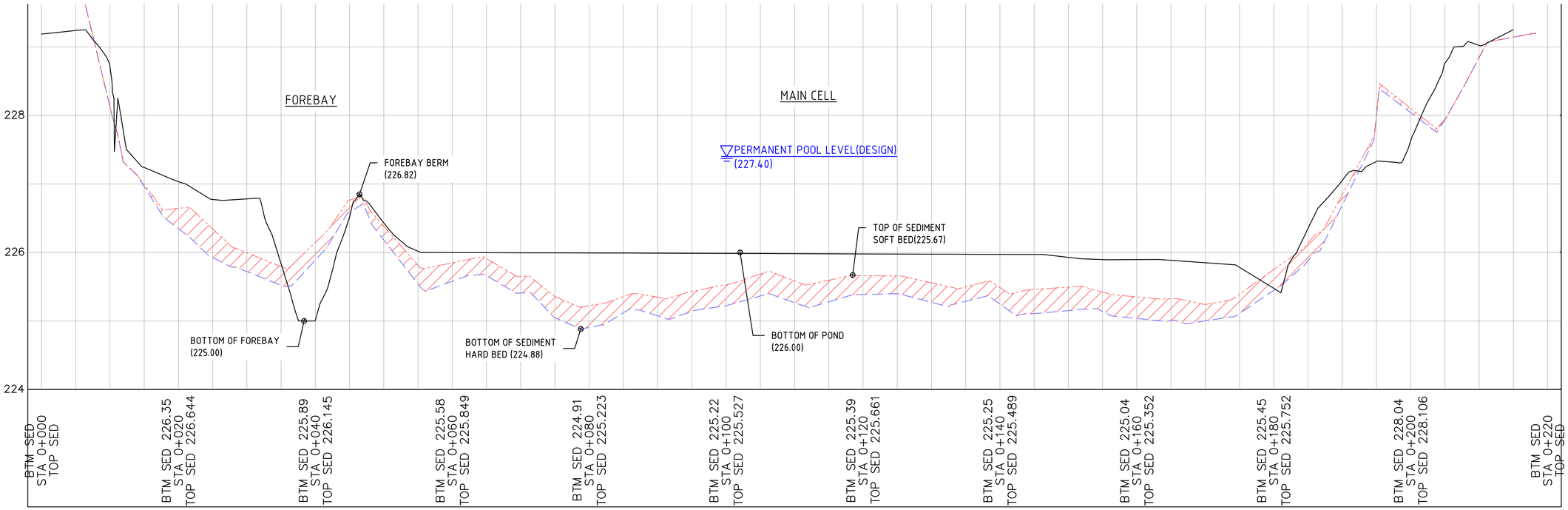
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POND BATHYMETRIC SEDIMENTATION ANALYSIS

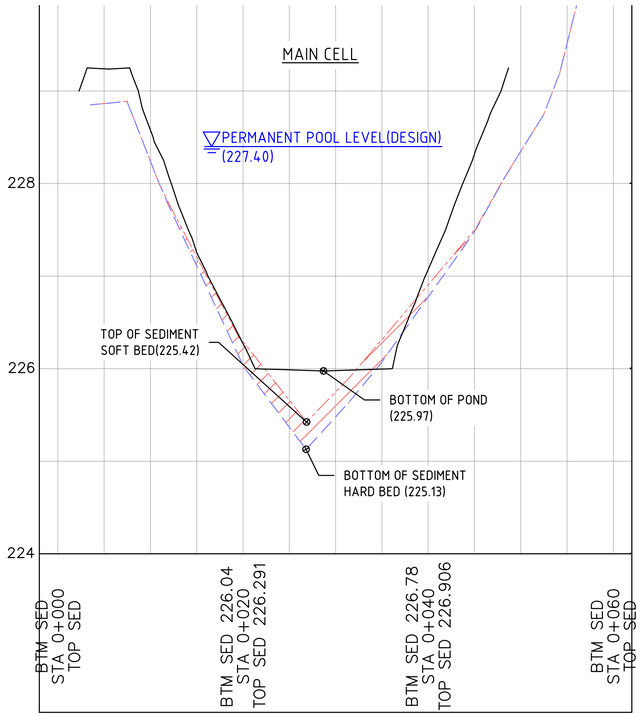
TOWERHILL SOUTH STORMWATER POND

SCALE : 1:300



HOR. SCALE 1:300
VERT. SCALE 1:30

SECTION A-A



HOR. SCALE 1:300
VERT. SCALE 1:30

SECTION B-B

NO.	REVISION	BY	MM/DD/YY
1.	1ST SUBMISSION	MNR	11/12/2024
2.	ISSUED FOR APPROVAL	MNR	08/17/2025

DESIGNED BY: Dr. Bahar SM

APPROVED BY:

DRAWN BY: Moniruzzaman Rayhan

DATE: (MM/DD/YY) 08/17/2025

SHEET No. 26 OF 29

DWG. No. AHYD-0311

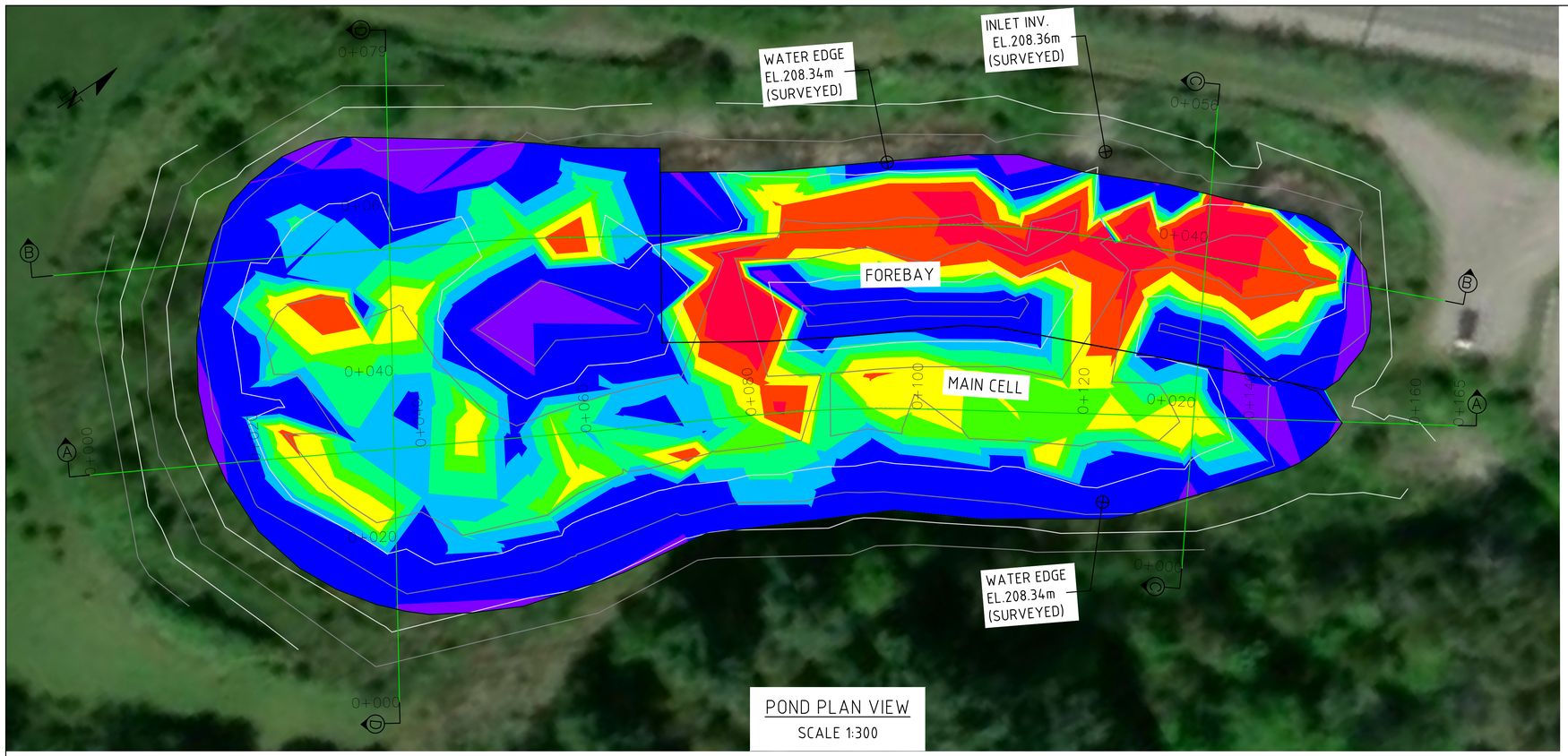
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TOWERHILL SOUTH STORMWATER POND

SCALE : 1:300



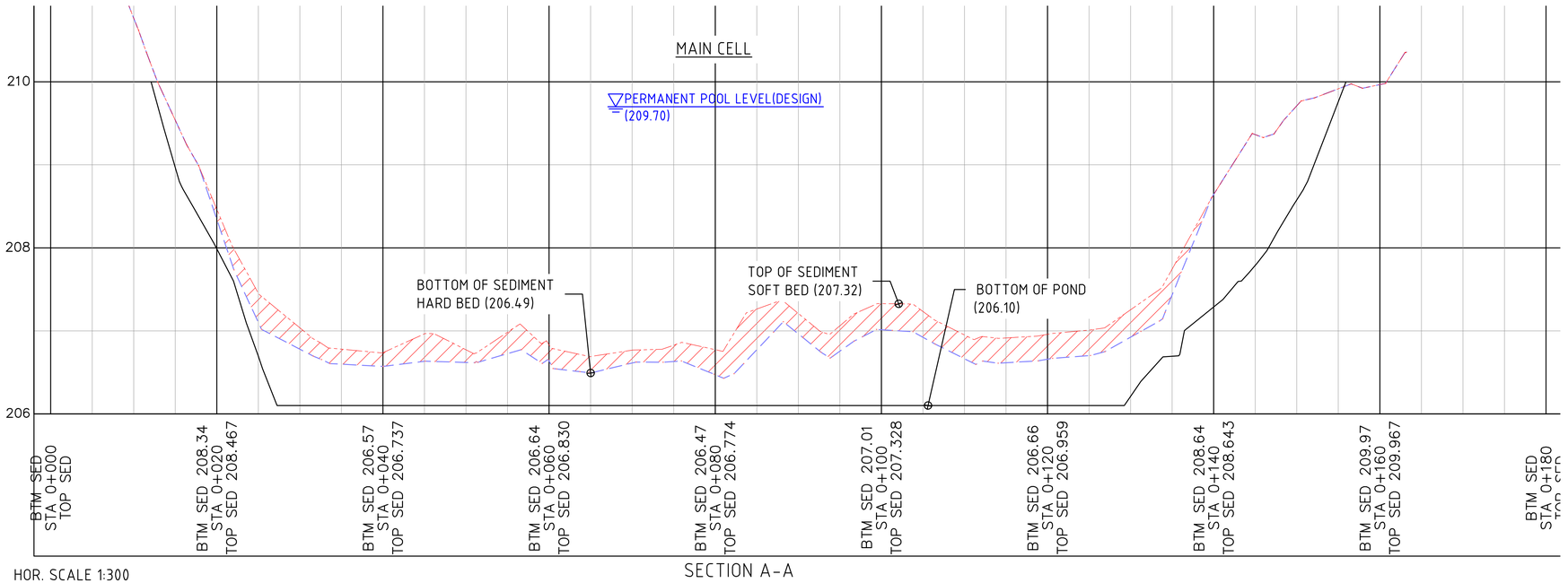
POND PLAN VIEW
SCALE 1:300

Elevations Table			
Number	Minimum Elevation	Maximum Elevation	Color
1	−1.34	−0.56	
2	−0.56	−0.40	
3	−0.40	−0.30	
4	−0.30	−0.26	
5	−0.26	−0.20	
6	−0.20	−0.15	
7	−0.15	0.00	
8	0.00	0.21	

DEPTH OF SEDIMENT IDENTIFIED BY BATHYMETRIC SURVEY

NOTES:

1302 m^3 OF SEDIMENT TO BE REMOVED FROM POND TO ACHIEVE AS−CONSTRUCTED VOLUME BASED ON SURVEY.



HOR. SCALE 1:300
VERT. SCALE 1:30

SECTION A-A

NO.	REVISION	BY	MM/DD/YY
1.	1ST SUBMISSION	MNR	11/12/2024
2.	ISSUED FOR APPROVAL	MNR	08/17/2025

DESIGNED BY: Dr. Bahar SM

APPROVED BY:

DRAWN BY: Moniruzzaman Rayhan

DATE: (MM/DD/YY) 08/17/2025

SHEET No. 27 OF 29

DWG. No. AHYD-0311

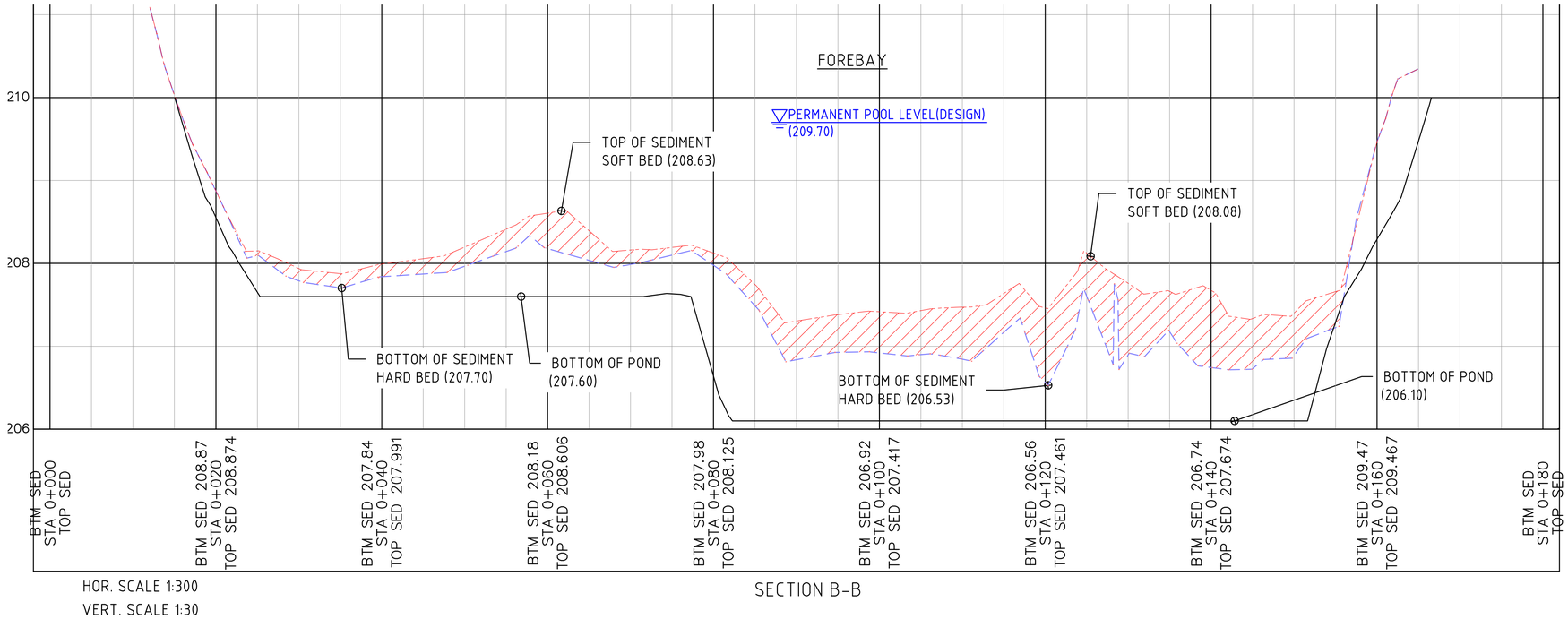
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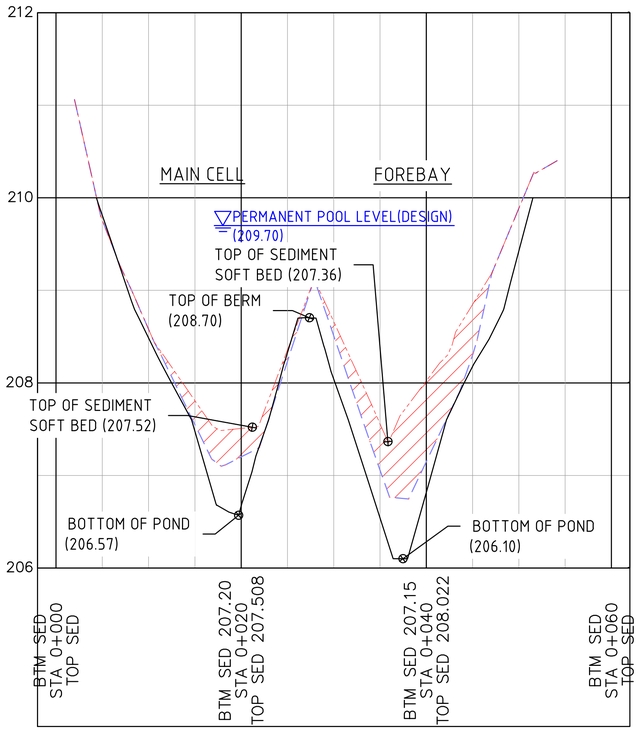
WATER STREET STORMWATER POND

SCALE : 1:300



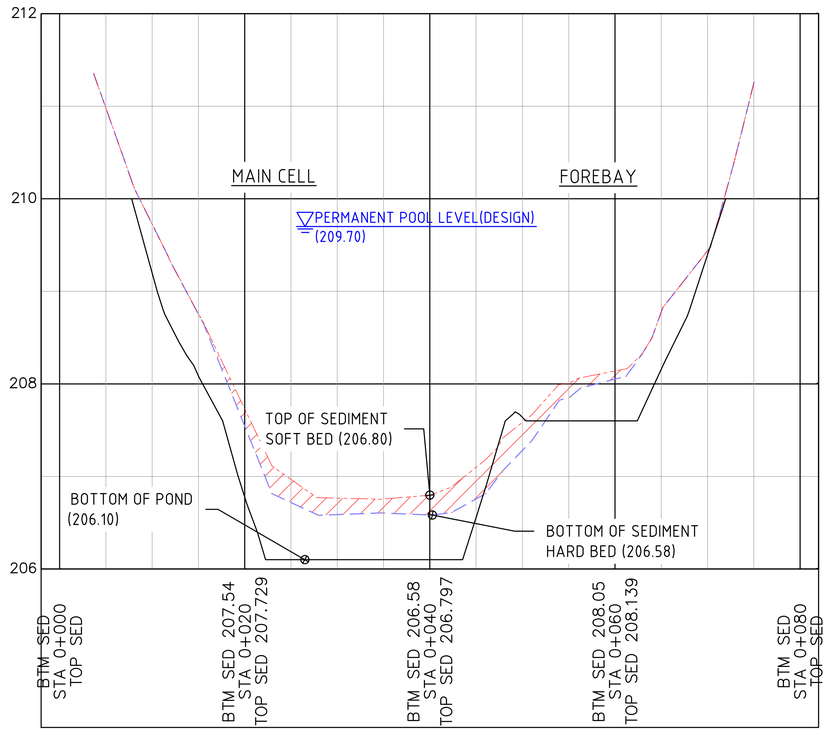
HOR. SCALE 1:300
VERT. SCALE 1:30

SECTION B-B



HOR. SCALE 1:300
VERT. SCALE 1:30

SECTION C-C



SECTION D-D

NO.	REVISION	BY	MM/DD/YY
1.	1ST SUBMISSION	MNR	11/12/2024
2.	ISSUED FOR APPROVAL	MNR	08/17/2025

DESIGNED BY: Dr. Bahar SM

APPROVED BY:

DRAWN BY: Moniruzzaman Rayhan

DATE: (MM/DD/YY) 08/17/2025

SHEET No. 28OF 29

DWG. No. AHYD-0311

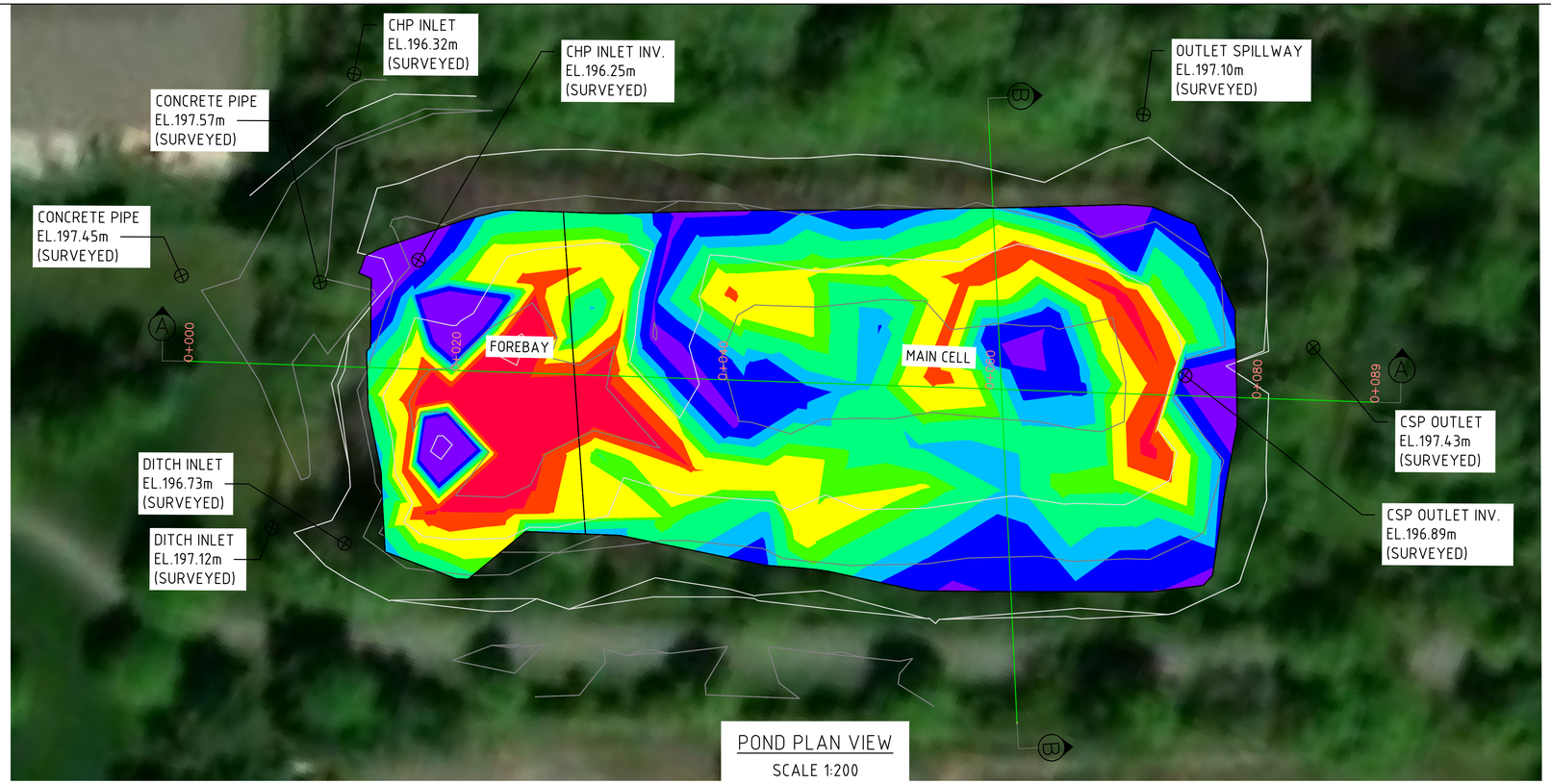
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POND BATHYMETRIC SEDIMENTATION ANALYSIS

WATER STREET STORMWATER POND

SCALE : 1:300



POND PLAN VIEW

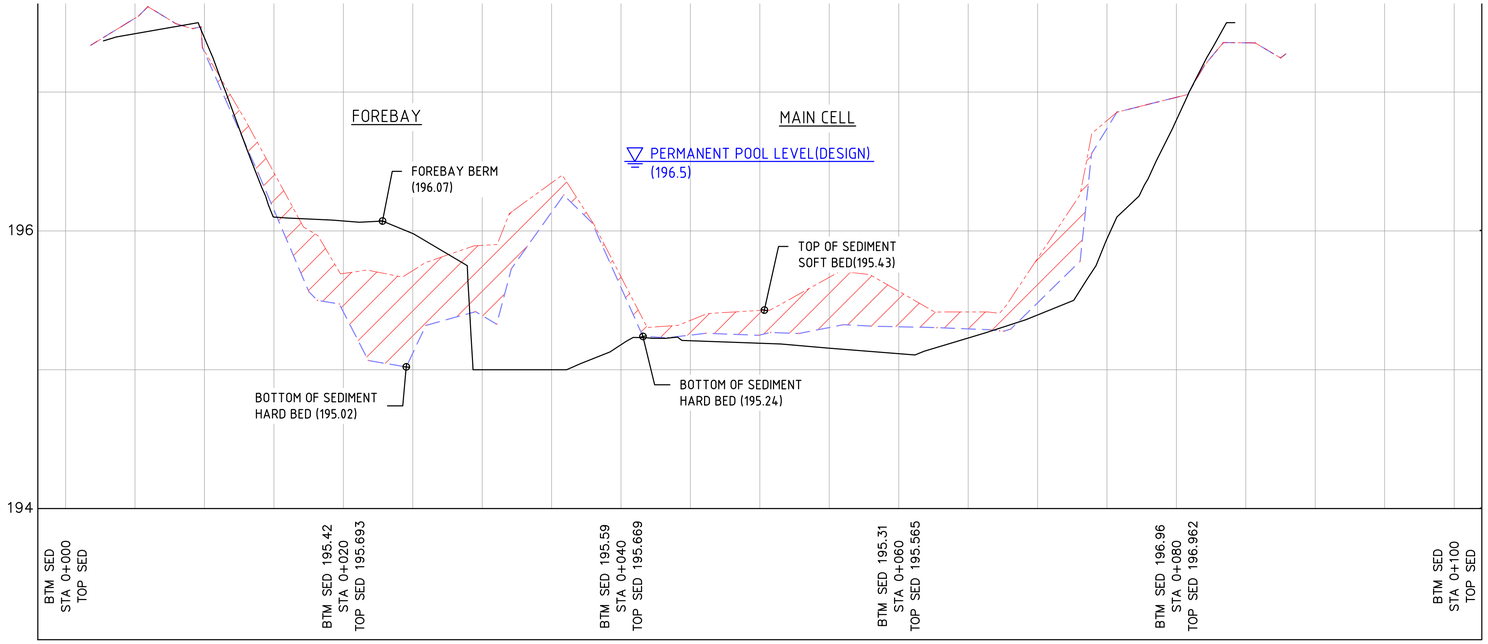
SCALE 1:200

Elevations Table			
Number	Minimum Elevation	Maximum Elevation	Color
1	−0.78	−0.48	
2	−0.48	−0.39	
3	−0.39	−0.30	
4	−0.30	−0.26	
5	−0.26	−0.18	
6	−0.18	−0.13	
7	−0.13	−0.05	
8	−0.05	0.60	

DEPTH OF SEDIMENT IDENTIFIED BY BATHYMETRIC SURVEY

NOTES:

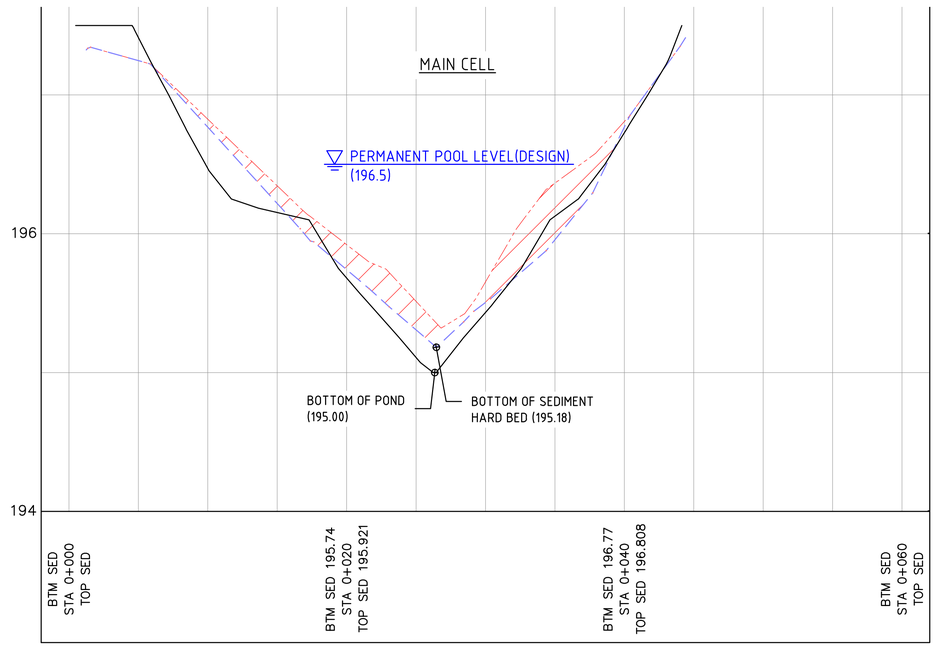
427m^3 OF SEDIMENT TO BE REMOVED FROM POND TO ACHIEVE AS−CONSTRUCTED VOLUME BASED ON SURVEY.



HOR. SCALE 1:200

VERT. SCALE 1:20

SECTION A−A



HOR. SCALE 1:200

VERT. SCALE 1:20

SECTION B−B

NO.	REVISION	BY	MM/DD/YY
1.	1ST SUBMISSION	MNR	11/12/2024
2.	ISSUED FOR APPROVAL	MNR	08/17/2025

DESIGNED BY: Dr. Bahar SM

APPROVED BY:

DRAWN BY: Moniruzzaman Rayhan

DATE: (MM/DD/YY) 08/17/2025

SHEET No. 29 OF 29

DWG. No. AHYD-0311

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POND BATHYMETRIC SEDIMENTATION ANALYSIS

WENTWORTH STORMWATER POND

SCALE : 1:200