



**REPLACEMENT OF BLACK
CREEK ROAD CULVERT
270m SOUTH OF NIAGARA PARKWAY
IN THE TOWN OF FORT ERIE**



CLASS EA PROCESS

- The Replacement of Black Creek Road Culvert is identified as a Schedule A+ Project according to Appendix 1 of the Municipal Class Environmental Assessment Manual.
- Key Stakeholders Identified: local residents, businesses, utilities, and agencies.
- Public Consultation: Design Drawings (General Arrangement and Sediment Control Plan) of the proposed replacement posted to Town website. Public invited to comment.
- Comments and questions to be documented and addressed.
- Proceed to Construction.

PROJECT SCHEDULE – KEY DATES

- Detailed Design: Spring 2025
- Public Consultation: June-July 2025
- Tendering: July-August 2025
- Award Tender: August 2025
- Construction: Mid-September 2025

(Estimated 2 months)



Above: Existing Concrete Rigid Frame Culvert at Black Creek Road (north end).



Above: Existing Corrugated Steel Pipe Culvert at Black Creek Road (south end).

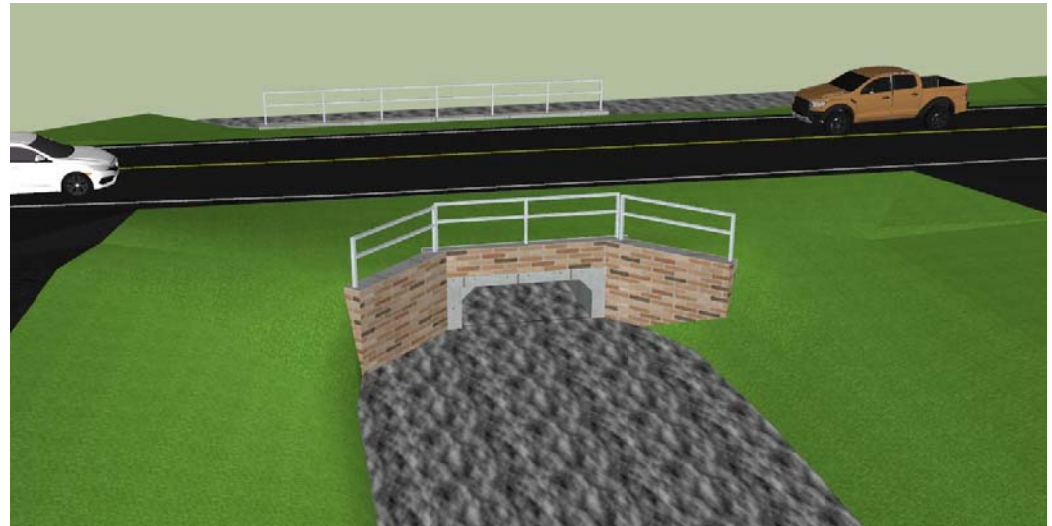
REPLACEMENT OF BLACK CREEK ROAD CULVERT 270m SOUTH OF NIAGARA PARKWAY IN THE TOWN OF FORT ERIE



Above: Existing CSP Pipe in Poor Condition

PROPOSED REPLACEMENT CULVERTS

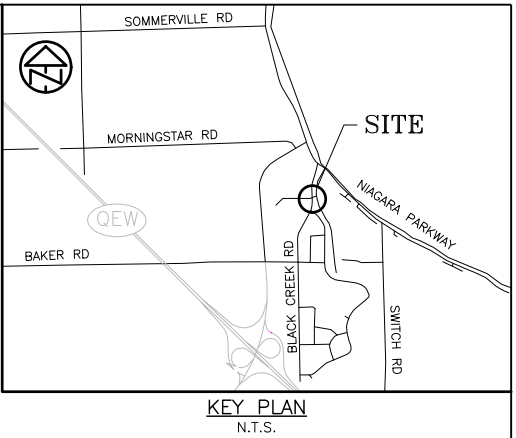
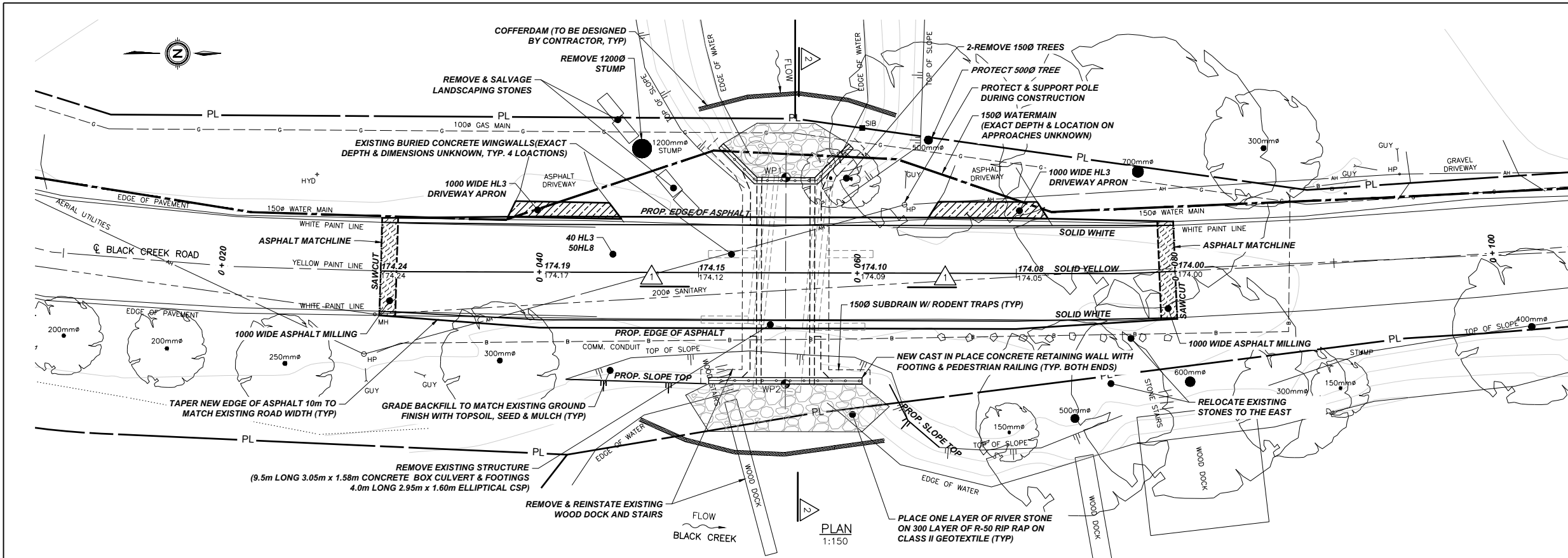
- 75 year design service life.
- Two 3.0m wide vehicular lanes and two 0.5m wide roadway shoulders.
- Precast concrete rigid frame structure with a span of 3.0m and height of 1.8m.
- Roadway to be closed to traffic for duration of construction (approximately 3 months)



West end of proposed structure looking east.



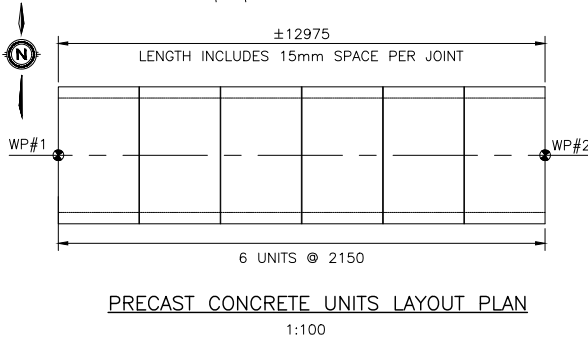
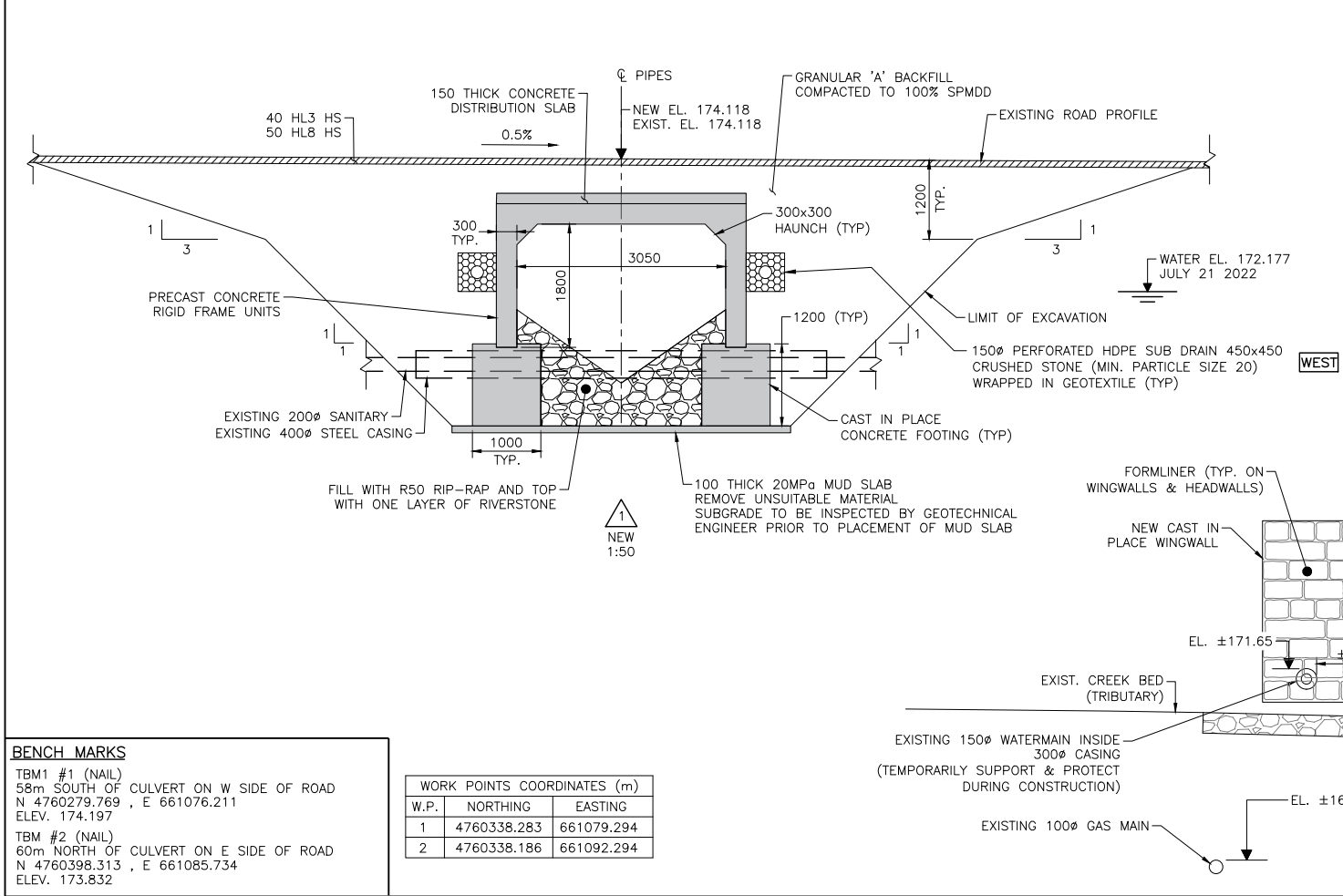
Black Creek Road over proposed structure looking south.



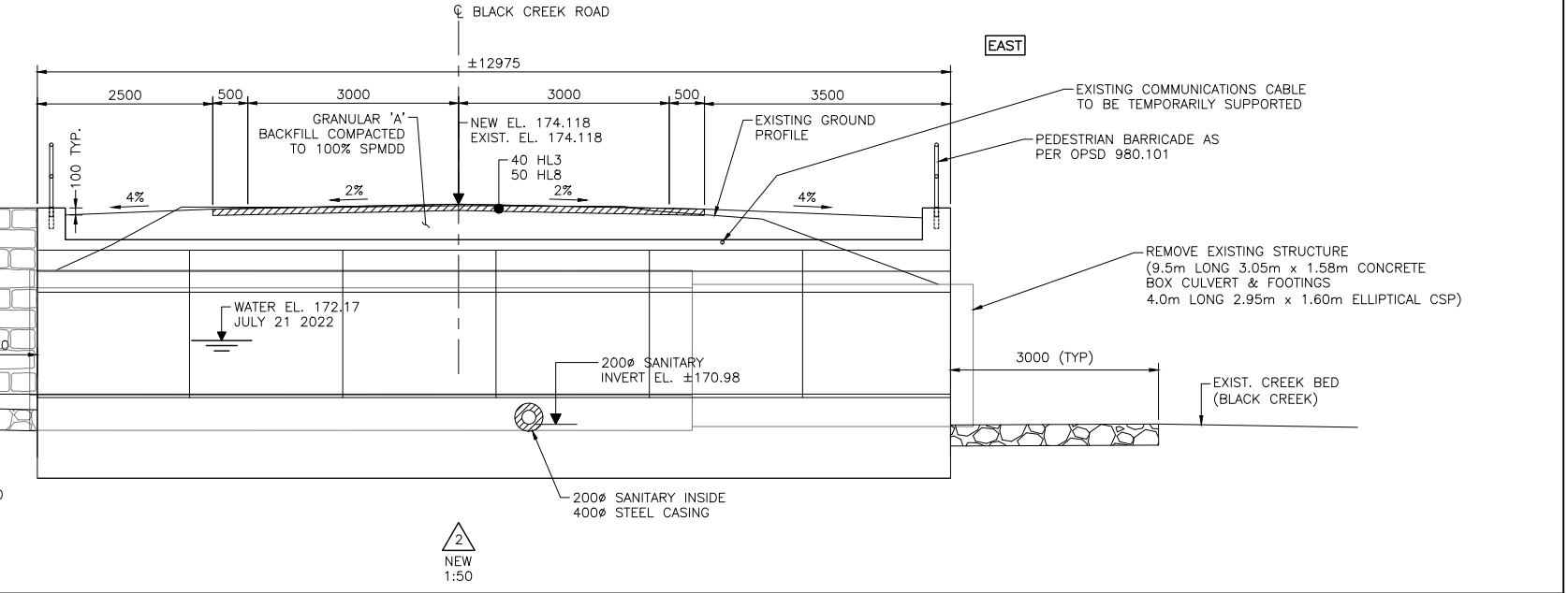
- GENERAL NOTES**
- CLASS OF CONCRETE 35MPa UNLESS NOTED OTHERWISE ON DRAWINGS.
 - REINFORCING STEEL SHALL BE GRADE 400 UNLESS OTHERWISE SPECIFIED. UNLESS SHOWN OTHERWISE, TENSION LAP LENGTHS NOT INDICATED ON THE CONTRACT DRAWINGS SHALL BE CLASS B. BAR HOOKS SHALL BE MINIMUM LENGTH AND STIRRUPS SHALL HAVE MINIMUM HOOKS, UNLESS INDICATED OTHERWISE.
 - ALL ELEVATIONS ARE IN METRES MEASURED FROM BENCH MARK NAIL #1 EL. 174.197
 - CLEAR COVER TO REINF. STEEL SHALL BE AS FOLLOWS
CAST AGAINST EARTH 100 ± 25
EXPOSED TO EARTH 70 ± 20
REMAINDER 70 ± 20
UNLESS OTHERWISE NOTED
 - ALL DIMENSIONS ARE IN MILLIMETRES EXCEPT AS SHOWN OTHERWISE.
 - BRIDGE AND ROAD CONSTRUCTION IS TO BE AS PER THE ONTARIO PROVINCIAL STANDARDS FOR ROADS AND MUNICIPAL SERVICES AND AS PER DETAILS PROVIDED.
 - THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS OF THE EXIST. CONDITIONS AND ALL DETAILS ON SITE AND REPORT ANY DISCREPANCIES TO THE CONTRACT ADMINISTRATOR BEFORE PROCEEDING WITH THE REPLACEMENT WORK. THE CONTRACTOR ALSO SHALL VERIFY ALL RELEVANT DIMENSIONS AND ELEVATIONS OF THE EXISTING CONDITIONS PRIOR TO CONSTRUCTION TO SUIT PROPOSED WORK.
 - THE CONTRACTOR IS TO COMPLY WITH ENVIRONMENTAL PROTECTION REQUIREMENTS AND ALL ENVIRONMENTAL CONSTRAINTS TO PREVENT CONTAMINATION OF THE WATERCOURSE.
 - THE ROADWAY WILL BE CLOSED FOR THE DURATION OF CONSTRUCTION.

- CONSTRUCTION NOTES**
- BACKFILL SHALL BE PLACED SIMULTANEOUSLY BEHIND BOTH SIDES OF THE CULVERT KEEPING THE HEIGHT OF THE BACKFILL APPROXIMATELY THE SAME. AT NO TIME SHALL THE DIFFERENCE IN ELEVATION BE GREATER THAN 400mm.
 - THE MUDSLAB SHALL NOT BE PLACED UNTIL THE DEPTH OF THE EXCAVATION AND THE CHARACTER OF THE FOUNDATION HAVE BEEN APPROVED BY THE CONTRACT ADMINISTRATOR AND A GEOTECHNICAL ENGINEER.

APPLICABLE STANDARD DRAWINGS
OPSD-219.130 - HEAVY DUTY SILT FENCE BARRIER
OPSD-980.101 - PEDESTRIAN BARRICADE - INSTALLATION



- LIST OF DRAWINGS**
- GENERAL ARRANGEMENT
 - FOOTINGS
 - WINGWALLS 1
 - WINGWALLS 2
 - DISTRIBUTION SLAB
 - SEDIMENT CONTROL PLAN



BENCH MARKS
TBM1 #1 (NAIL)
58m SOUTH OF CULVERT ON W SIDE OF ROAD
N 4760279.769 , E 661076.211
ELEV. 174.197
TBM #2 (NAIL)
60m NORTH OF CULVERT ON E SIDE OF ROAD
N 4760398.313 , E 661085.734
ELEV. 173.832

WORK POINTS COORDINATES (m)		
W.P.	NORTHING	EASTING
1	4760338.283	661079.294
2	4760338.186	661092.294

ISSUED FOR 100% SUBMISSION			MAY 9 2025	JC
No.	REVISION		DATE	BY



DRAWN BY	J.C.
DESIGNED BY	A.S.K.
CHECKED BY	B.E.

TOWN OF FORT ERIE
CONTRACT No: ISE-22T-BRQB22

**BLACK CREEK ROAD CULVERT (S112C)
REPLACEMENT**

GENERAL ARRANGEMENT

SCALE	AS SHOWN	DATE	MAY 2025	DWG. No.	1059-RSL1-1
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