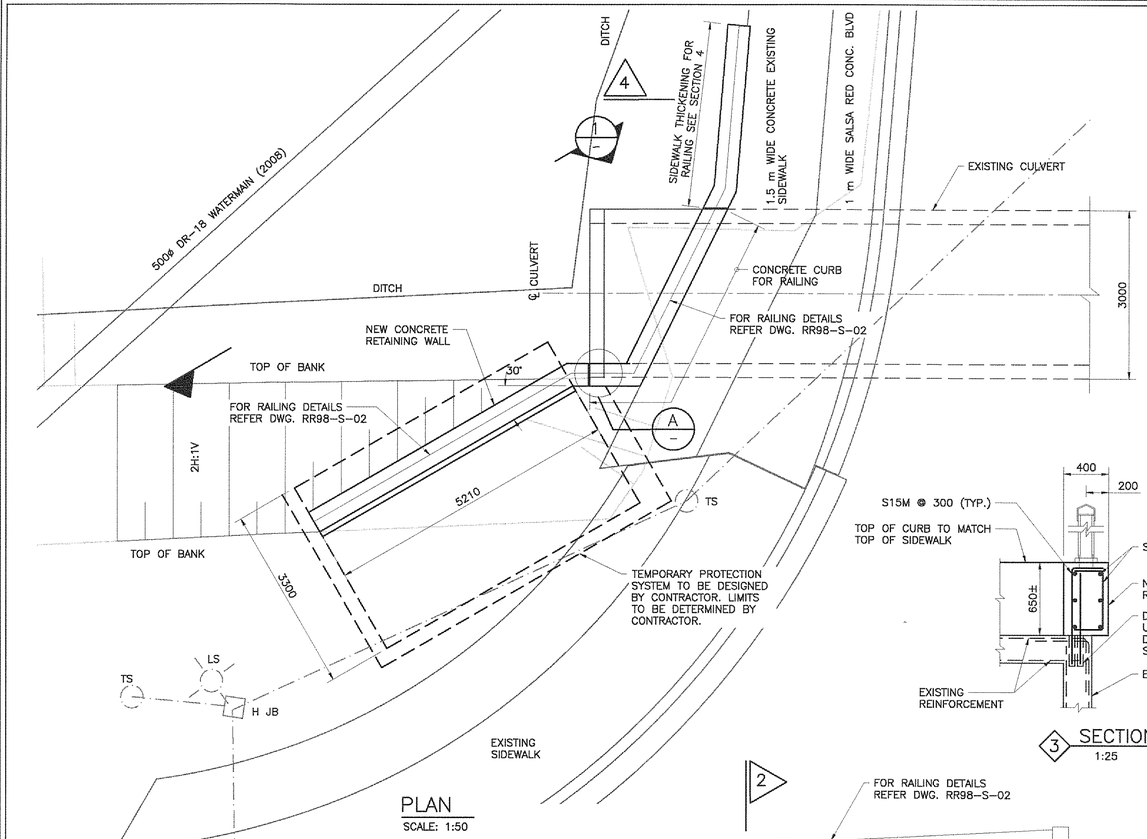
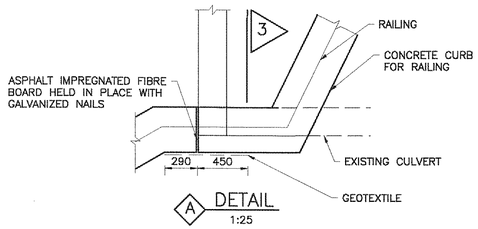
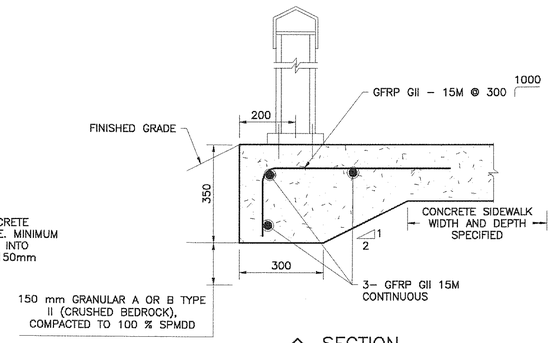


3 SECTION
1:25



A DETAIL
1:25



4 SECTION
1:10

GENERAL NOTES

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
2. THE DESIGN CODE: CANADIAN HIGHWAY BRIDGE DESIGN (CHBDC) CAN/CSA S6–14.

CLASS OF CONCRETE

CLASS OF CONCRETE ——— 30 MPa
MASS CONCRETE ——— 20 MPa

CLEAR COVER TO REINFORCING STEEL

BOTTOM OF BOTTOM SLAB 100 ± 25.
REMAINDER 70 ± 20 UNLESS OTHERWISE NOTED.

REINFORCING STEEL

1. REINFORCING STEEL SHALL BE GRADE 400W UNLESS OTHERWISE SPECIFIED.
2. UNLESS SHOWN OTHERWISE, TENSION LAP SPLICES NOT INDICATED ON THE CONTRACT DRAWINGS SHALL BE CLASS 'B'.
3. BAR HOOKS SHALL HAVE STANDARD HOOK DIMENSIONS USING MINIMUM BEND DIAMETERS, WHILE STIRRUPS AND TIES SHALL HAVE MINIMUM HOOK DIMENSIONS. ALL HOOKS SHALL BE IN ACCORDANCE WITH THE STRUCTURAL MANUAL SS12–1 AND BA 12–2.

FOUNDATION

BEARING CAPACITIES
SLS = 100 kPa.
ULS = 150 kPa.

CONSTRUCTION NOTES

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS ON SITE AGAINST THE PROPOSED WORK AND REPORT ANY DISCREPANCIES TO THE CONTRACT ADMINISTRATOR BEFORE THE START OF CONSTRUCTION.
2. TEMPORARY ROADWAY PROTECTION SHALL BE DESIGNED TO PERFORMANCE LEVEL 2 CRITERIA AS PER OPSS 539.
3. SUPPORT FOR REINFORCING STEEL SHALL BE AS PER OPSD–3329.101 AND OPSD 3329.100 ON FORMED SURFACES. ON NON–FORMED SURFACES, CONCRETE BLOCK (MIN. 20 Mpa) SHALL BE USED.
4. THE FINAL 0.5m OF EXCAVATION TO BE COMPLETED UNDER GEOTECHNICAL QVE SUPERVISION, AND FOOTING TO BE CONSTRUCTED ON COMPETENT SOIL AFTER INSPECTION.

APPLICIABLE STANDARD DRAWINGS:

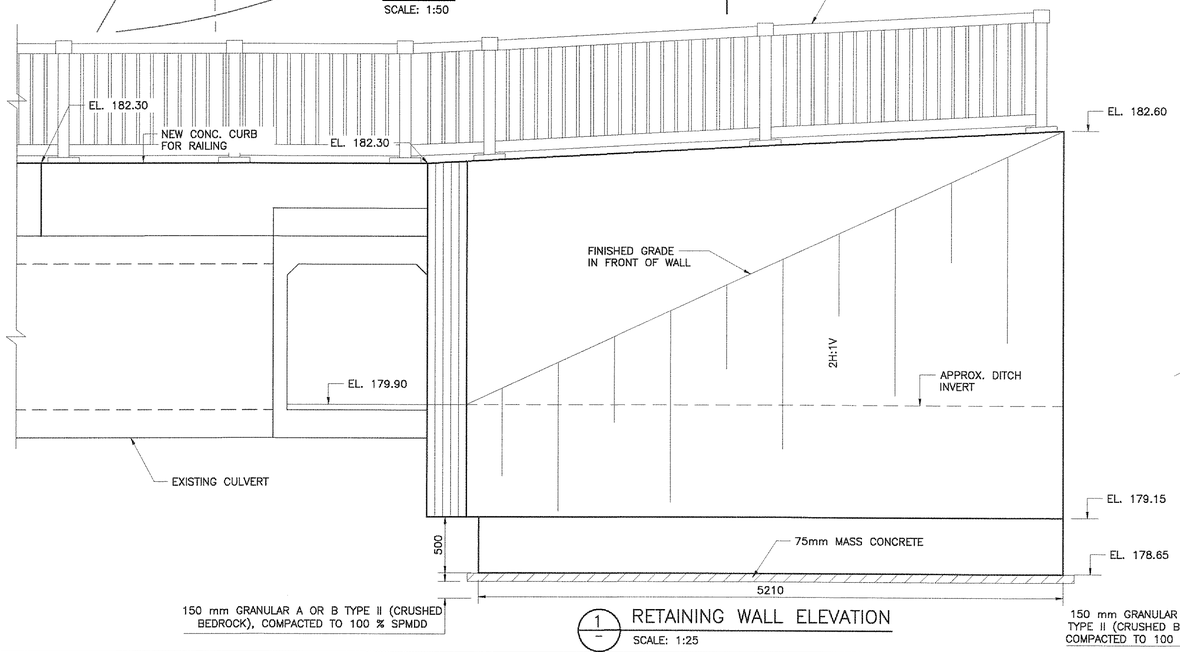
OPSD 3121.150	WALLS, RETAINING WALLS, BACKFILL MIN. GRANULAR REQUIREMENT
OPSD 3190.100	WALLS, RETAINING AND ABUTMENT WALL DRAIN

LIST OF DRAWINGS

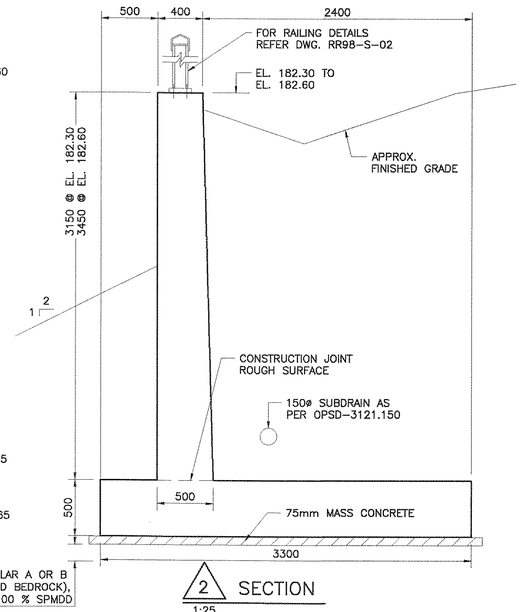
1. RETAINING WALL GENERAL ARRANGEMENT AND DETAILS

LIST OF ABBREVIATIONS

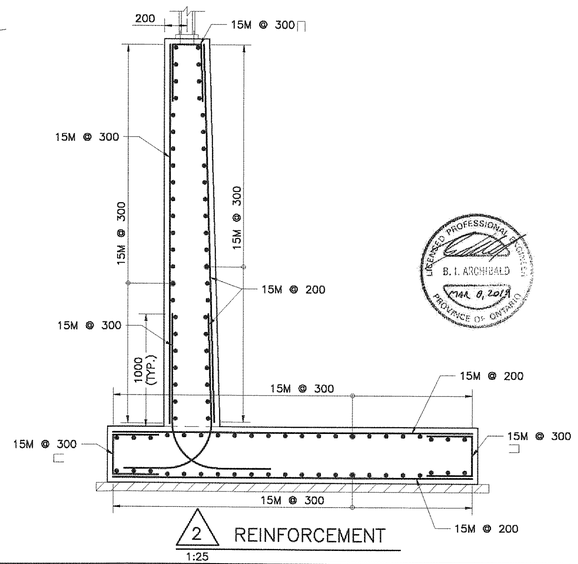
APPROX	– DENOTES APPROXIMATE
E.L.	– DENOTES ELEVATION
EXIST.	– DENOTES EXISTING
TYP.	– TYPICAL



1 RETAINING WALL ELEVATION
SCALE: 1:25



2 SECTION
1:25



2 REINFORCEMENT
1:25

NO.	REVISION	DATE	INIT.
A	ISSUED FOR TENDER	2019/02/20	B.A

CAD M.F.A
DESIGN M.F.A
CHECKED BY N.P
APPROVED BY B.A

BENCH MARK
MONUMENT No: 90036061
Concrete box culvert under Montrose Road located at the intersection of Montrose Road and McLeod Road. 16.2m east from the centre line of Montrose Road, and 23.6m north from the centre line of McLeod Road. Brass Tablet set vertically in the top of the culvert 2.85m south from the north edge of culvert and 1.12m west from the east edge of culvert.
ELEVATION: 181.508m

LICENSED PROFESSIONAL ENGINEER
N.PAPASOTIRIOU
100194982
March 5, 2019
PROVINCE OF ONTARIO

Niagara Region PUBLIC WORKS
PARSONS

RN19-05
ROAD RECONSTRUCTION AND WIDENING
REGIONAL ROAD 98 (MONTROSE ROAD)
NIAGARA FALLS
RETAINING WALL GENERAL ARRANGEMENT AND DETAILS

CONSULTANT FILE No. 603119
DATE 2019/02/20
SCALE AS SHOWN
REF. No.
DWG No. RR98 - S - 01
REV.

LICENSED PROFESSIONAL ENGINEER
B. I. ARCHIBALD
MAR. 8, 2019
PROVINCE OF ONTARIO