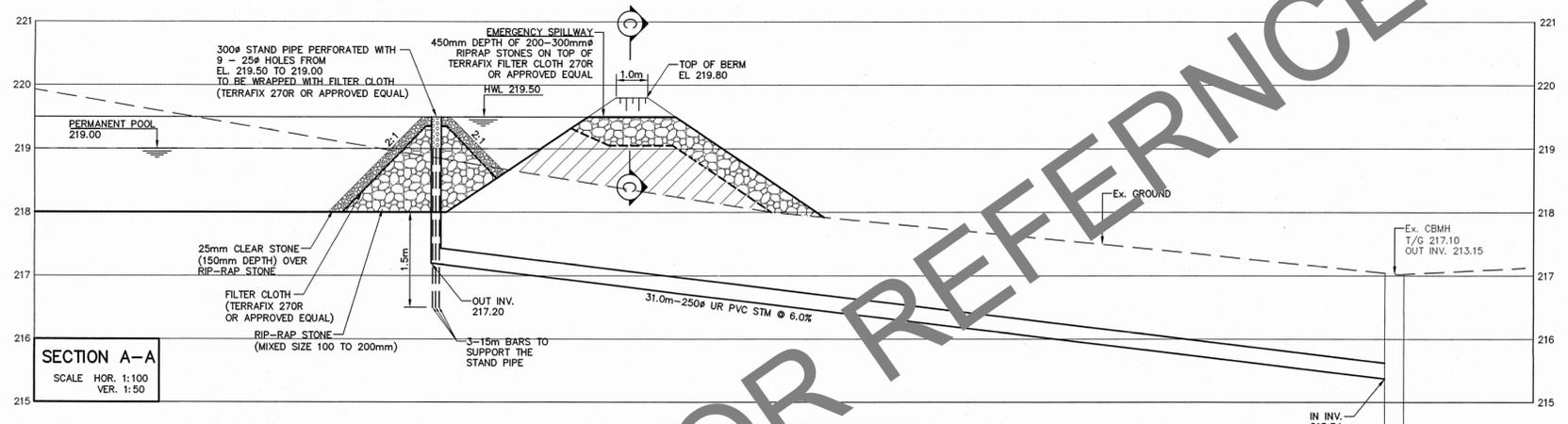
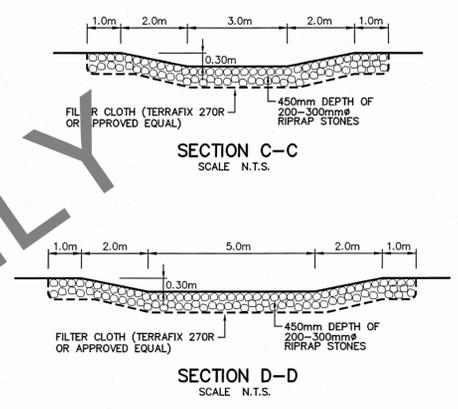


TEMPORARY SEDIMENT POND No.1
SCALE 1:500

TEMPORARY SEDIMENT POND No.1

POND HWL	REQUIRED STORAGE		PROVIDED STORAGE	
	PERMANENT	ACTIVE	PERMANENT	ACTIVE
219.50	611m ³	611m ³	990m ³	650m ³

TRIBUTARY AREA 3.3ha
 PERMANENT STORAGE CAPACITY 185m³/ha
 ACTIVE STORAGE CAPACITY 185m³/ha
 TOTAL STORAGE CAPACITY 370m³/ha
 TOTAL REQUIRED STORAGE 3.3ha x 370m³/ha = 1221m³
 REQUIRED PERMANENT STORAGE 3.3ha x 185m³/ha = 611m³
 REQUIRED ACTIVE STORAGE 3.3ha x 185m³/ha = 611m³
 REQUIRED FLOW FOR 48hr DURATION 611/(48 x 60 x 60) = 0.0035m³/s
 TOTAL HEAD 219.50m - 219.00m = 0.50m
 [Q=CA (2gh)^{3/2}]
 REQUIRED AREA OF HOLES IN STAND PIPE 0.0021m²
 AREA OF A 25# HOLE 0.000495m²
 No. OF HOLES REQUIRED 0.0021m² / 0.000495m² = 4
 PROVIDE 9

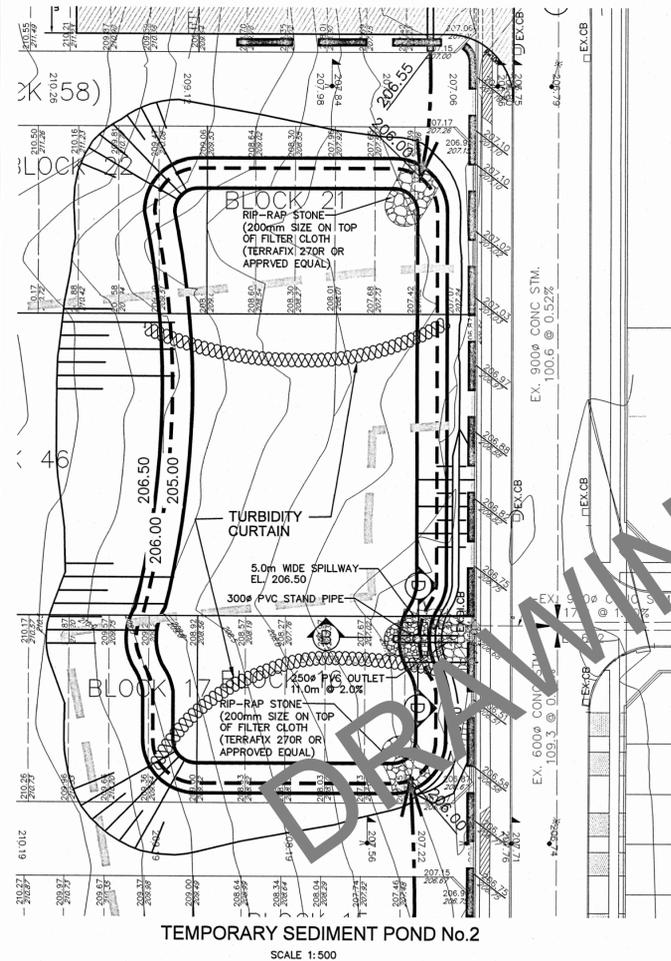


SECTION A-A
SCALE HOR. 1:100
VER. 1:50

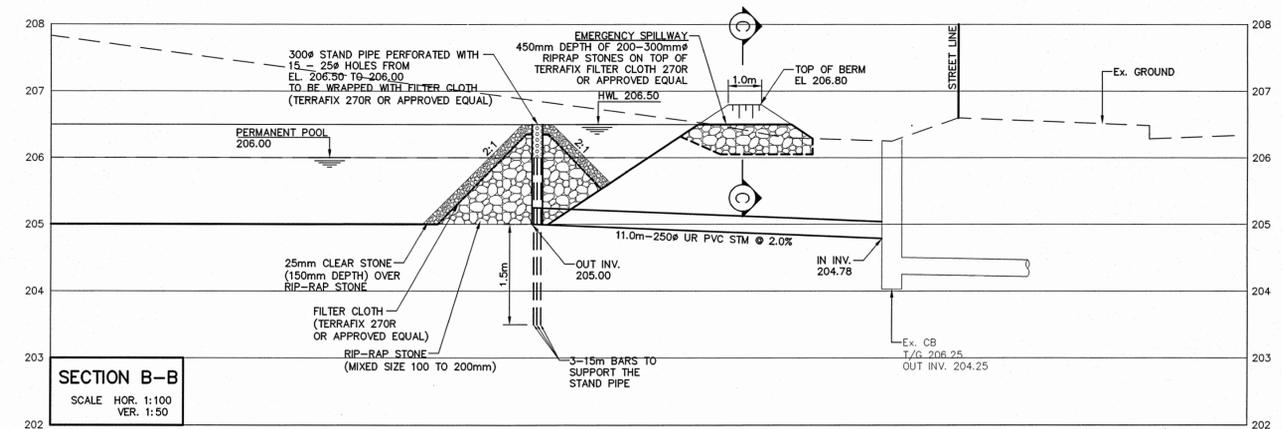
TEMPORARY SEDIMENT POND No.2

POND HWL	REQUIRED STORAGE		PROVIDED STORAGE	
	PERMANENT	ACTIVE	PERMANENT	ACTIVE
206.50	1887m ³	1887m ³	2360m ³	1890m ³

TRIBUTARY AREA 10.2ha
 PERMANENT STORAGE CAPACITY 185m³/ha
 ACTIVE STORAGE CAPACITY 185m³/ha
 TOTAL STORAGE CAPACITY 370m³/ha
 TOTAL REQUIRED STORAGE 10.2ha x 370m³/ha = 3744m³
 REQUIRED PERMANENT STORAGE 10.2ha x 185m³/ha = 1887m³
 REQUIRED ACTIVE STORAGE 10.2ha x 185m³/ha = 1887m³
 REQUIRED PEAK FLOW FOR 48hr DURATION 1877/(48 x 60 x 60) x 1.5 = 0.0053m³/s
 TOTAL HEAD 206.5m - 206.00m = 0.50m
 [Q=CA (2gh)^{3/2}]
 REQUIRED AREA OF HOLES IN STAND PIPE 0.0067m²
 AREA OF A 25# HOLE 0.000495m²
 No. OF HOLES REQUIRED 0.0067m² / 0.000495m² = 14
 PROVIDE 15



TEMPORARY SEDIMENT POND No.2
SCALE 1:500



SECTION B-B
SCALE HOR. 1:100
VER. 1:50

TEMPORARY SEDIMENT POND No.2

NOTE
1. THIS DRAWING TO BE READ IN CONJUNCTION WITH DWG. NO. SC-1 AND SC-3.

REVISIONS			
No.	DESCRIPTION	By	Date

BENCH MARK No. 17-5
GREEN PARK BUILDING LOCATED AT WEST SIDE OF DUFFERIN STREET AND SOUTH SIDE OF CONFEDERATION PARKWAY, SOUTH-WEST CORNER OF THE BUILDING 0.200m EAST OF SOUTH-WEST CORNER, 0.100m ABOVE GROUND ON SOUTHFACE. 5700 DUFFERIN STREET. ELEVATION: 211.750

APPROVED AS TO FORM IN RELIANCE UPON THE PROFESSIONAL SKILL AND ABILITY OF SCHAEFFERS CONSULTING ENGINEERS AS TO DESIGN AND SPECIFICATION

H. T. Schaeffers
APR 11, 2016
DIRECTOR OF DEVELOPMENT ENGINEERING AND INFRASTRUCTURE PLANNING DEPARTMENT

NINE-TEN WEST LIMITED
CARRVILLE DISTRICT CENTER - PHASE 1
BLOCK 11

SCHAEFFERS
CONSULTING ENGINEERS
SCHAEFFER & ASSOCIATES LTD.

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E-mail: design@schaeffers.com

PROJECT No. 2014 - 4025 | DRAWING No.

VAUGHAN

SILTATION CONTROL PLAN
TEMPORARY PONDS 1 AND 2

CITY FILE No. 19T-12V009

DESIGNED BY: T.A.	DATE: SEPTEMBER 2014	CHECKED BY: H.T.
DRAWN BY: I.V.		APPROVED BY: H.T.
SCALE: AS SHOWN		DWG. No. SC - 2