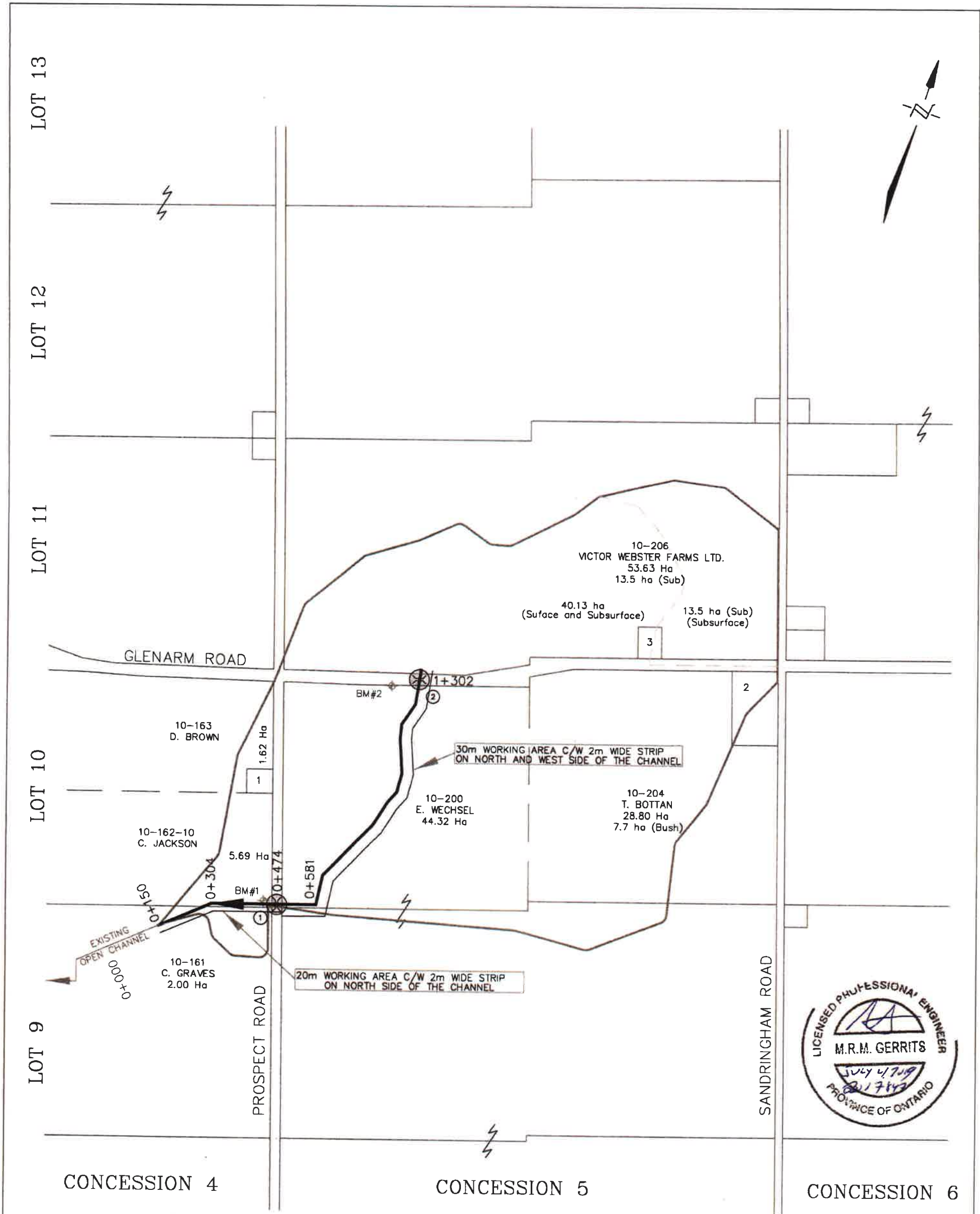


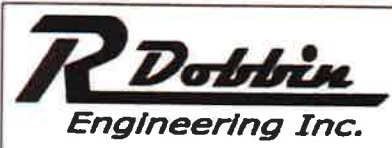


LEGEND

- (X) EXISTING CULVERT
- (2) CULVERT LOCATION
- (X with circle) EXISTING CULVERT TO BE REPLACED
- WEBSTER DRAIN
- DRAIN
- DRAINAGE AREA
- SUB CATCHMENT BOUNDARY

OWNER INDEX NUMBER

- 1. 10-163-01 J. McFEETERS 0.40 Ha
- 2. 10-204-01 CITY OF KAWARTHA LAKES 1.21 Ha
- 3. 10-206-01 T. BOTTAN 0.33 Ha



4218 Oil Heritage Road
Petrolia Ontario, N0N 1R0
Phone: (519) 882-0032 Fax: (519) 882-2233

DRAWING NAME:
Webster Drain Plan

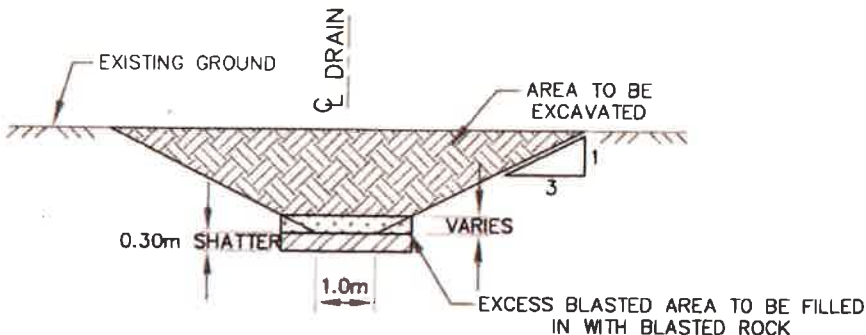
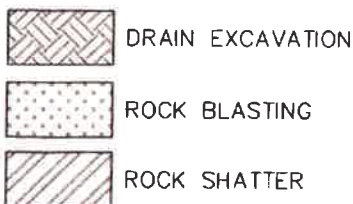
PROJECT No.
2017-847

APPROVED M. GERRITS	SCALE: 1:10,000 0 100 200 300m			
CHECKED B. VAN RUITENBERG	NO.	REVISIONS	DATE	BY
DRAWN J. WARNER	3	WATERSHED ADJ.	JULY 4, 2019	MG
	2	FINAL REPORT	JUNE 3, 2019	MG
	1	FOR CA APPROVAL	JAN. 18, 2019	JW

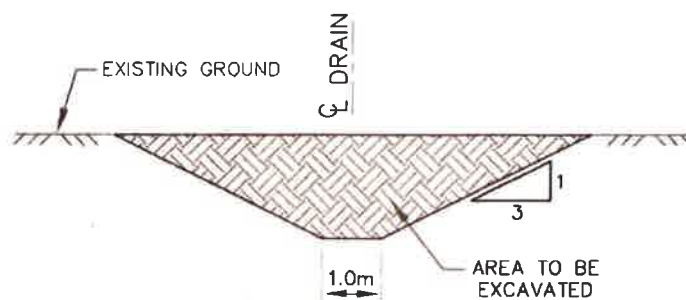
CITY of KAWARTHA LAKES
WEBSTER DRAIN
PLAN

GENERAL NOTES

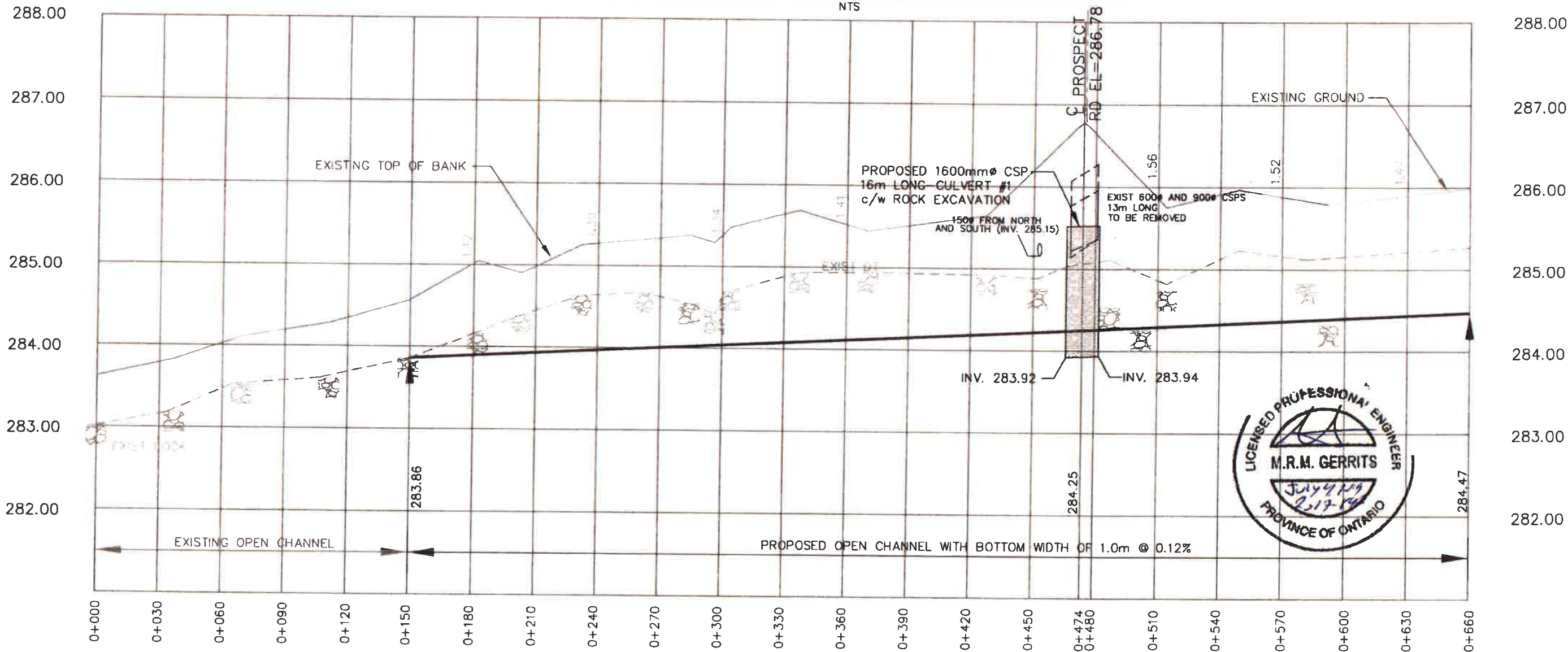
1. BENCHMARK No.1 ELEV. 286.07
TOP WEST END OF EXISTING 900mmØ
CSP, STATION 0+474
2. UPPER NUMBERS ARE DEPTH FROM GROUND/
TOP OF BANK TO BOTTOM OF NEW CHANNEL.



TYPICAL DRAIN CROSS SECTION IN EARTH AND ROCK
NTS



TYPICAL DRAIN CROSS SECTION IN EARTH
NTS



R Dobbin
Engineering Inc.

4218 Oil Heritage Road
Petroliia Ontario, NON 1R0
Phone: (519) 882-0032 Fax: (519) 882-2233

DRAWING NAME:
Webster Drain Profile 1

PROJECT No.
2017-847

APPROVED
M. GERRITS

CHECKED
B. VAN RUITENBURG

DRAWN
J. WARNER

NO.	REVISIONS	DATE	BY
3	FINAL REPORT	JULY 4, 2019	MG
2	FINAL REPORT	JUNE 3, 2019	MG
1	FOR CA APPROVAL	JAN. 18, 2019	JW

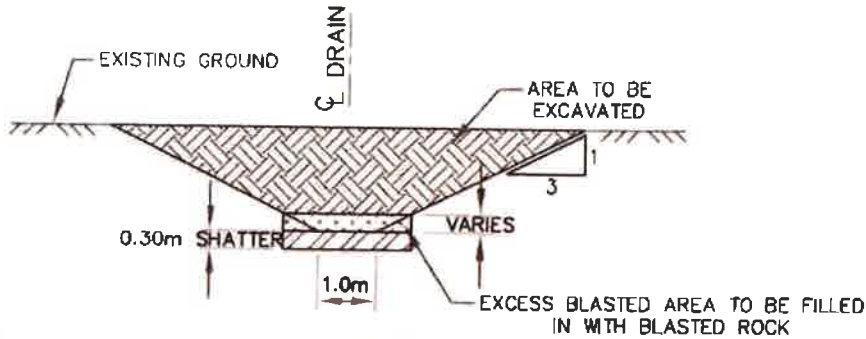
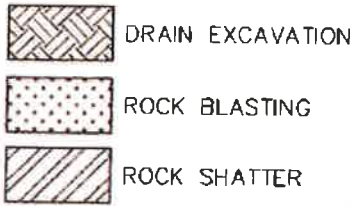
SCALE: 1:2,000
0 20 40 60m

CITY of KAWARTHA LAKES
WEBSTER DRAIN
PROFILE

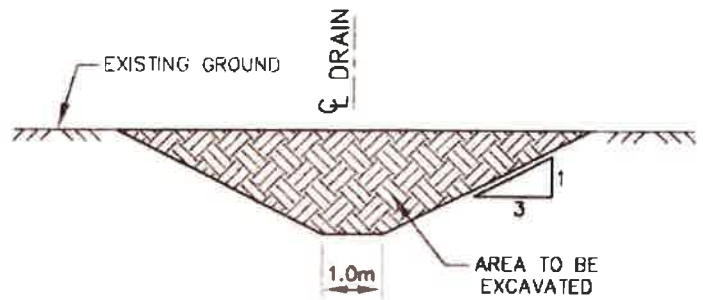
2
OF 4

GENERAL NOTES

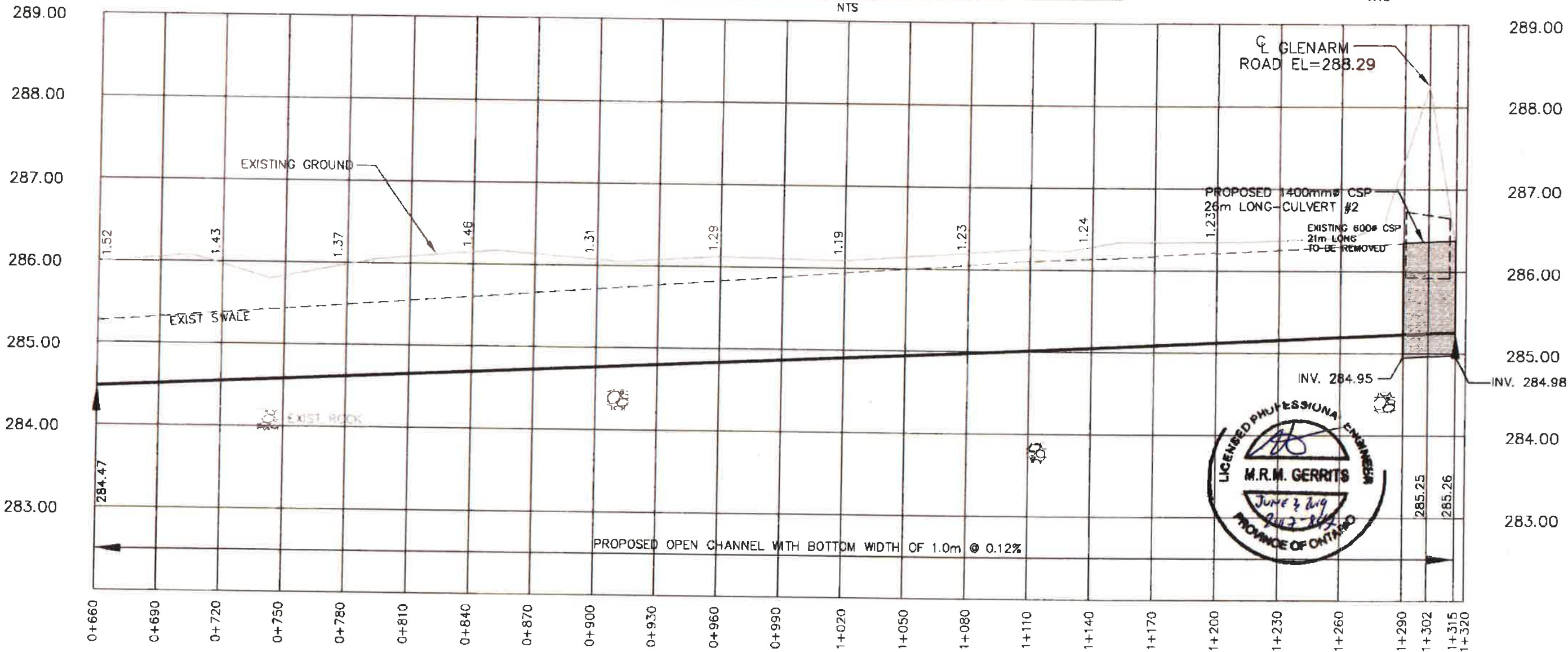
1. BENCHMARK No.2 ELEV. 287.57
TOP OF NAIL ON HYDRO POLE ON THE SOUTH SIDE
OF GLENARM ROAD APPROXIMATELY 75m WEST
OF PROPOSED DRAINAGE WORKS (STA. 1+291)
2. UPPER NUMBERS ARE DEPTH FROM
GROUND TO BOTTOM OF NEW CHANNEL.



TYPICAL DRAIN CROSS SECTION IN EARTH AND ROCK
NTS



TYPICAL DRAIN CROSS SECTION IN EARTH
NTS



R Dobbin
Engineering Inc.

4218 Oil Heritage Road
Petrolia Ontario, N0N 1R0
Phone: (519) 882-0032 Fax: (519) 882-2233

DRAWING NAME:
Webster Drain Profile 2

PROJECT No.
2017-847

APPROVED
M. GERRITS

CHECKED
B. VAN RUITENBURG

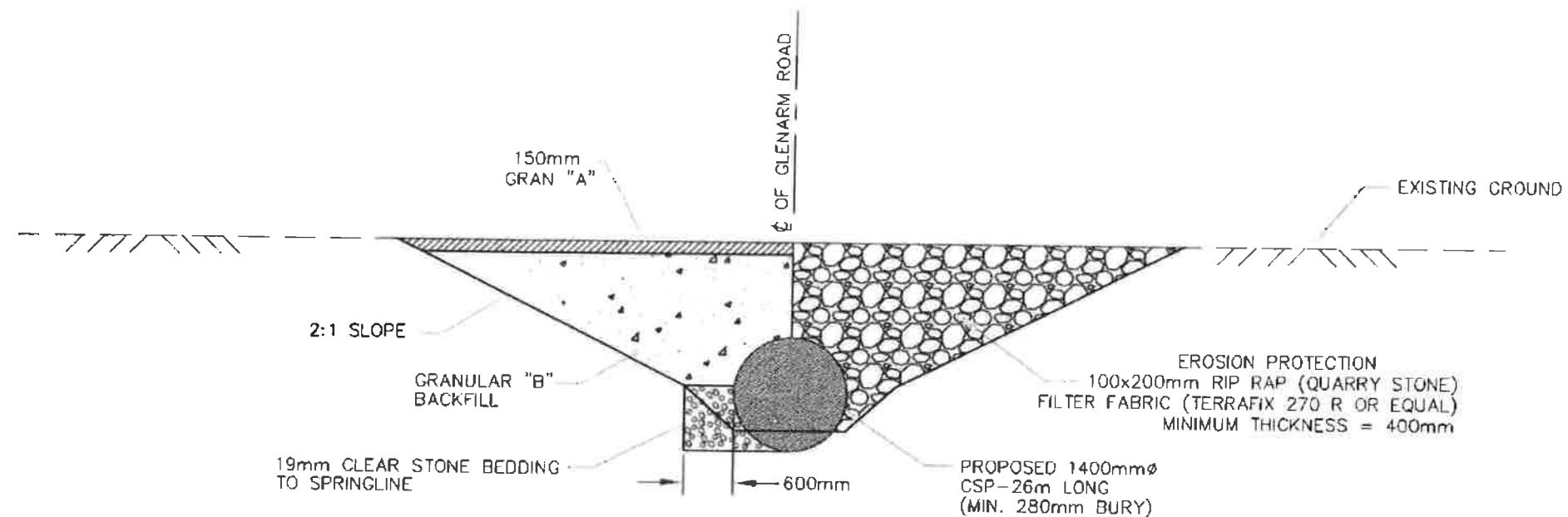
DRAWN
J. WARNER

NO.	REVISIONS	DATE	BY
2	FINAL REPORT	JUNE 3, 2019	MG
1	FOR CA APPROVAL	JAN. 18, 2019	JW

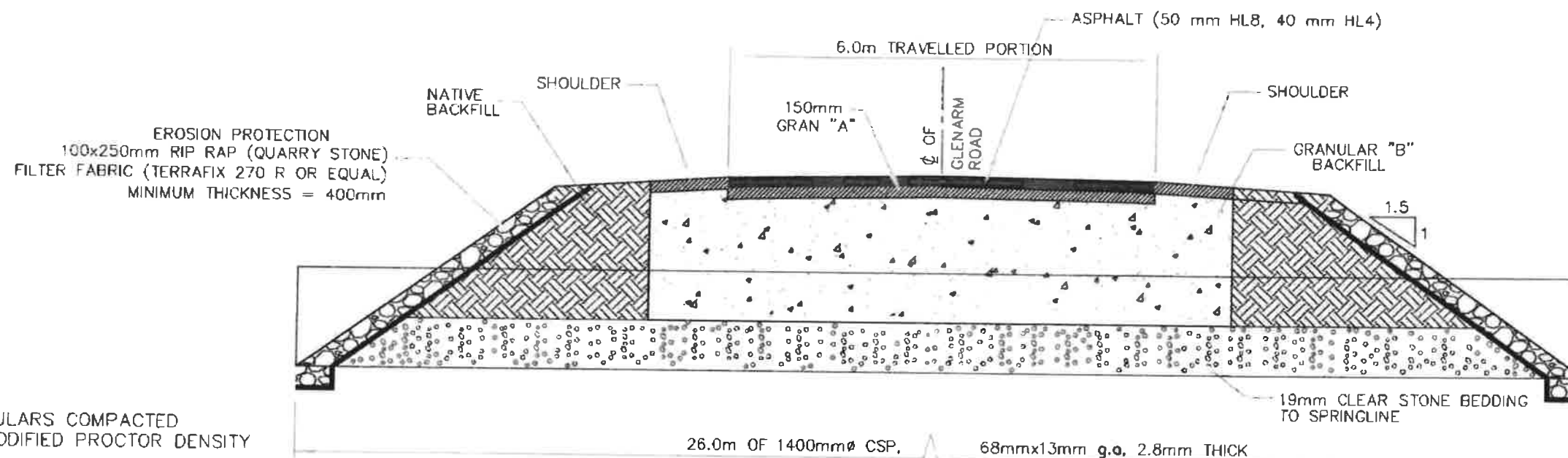
SCALE: 1:2,000
0 20 40 60m

CITY of KAWARTHA LAKES
WEBSTER DRAIN
PROFILE

3
OF 4



PROPOSED PIPE END SECTION
CULVERT #2
 (NON TRAVELLED PORTION)



PROPOSED CROSS-SECTION
CULVERT #2

NOTE:

1. ALL GRANULARS COMPACTED TO 98% MODIFIED PROCTOR DENSITY
2. INVERTS TO BE CONFIRMED AT TIME OF CONSTRUCTION
3. CULVERT #1 DOES NOT REQUIRE ASPHALT LIFT.



R Dobbin
Engineering Inc.

4218 Oil Heritage Road
 Petrolia Ontario, N0N 1R0
 Phone: (519) 882-0032 Fax: (519) 882-2233

DRAWING NAME:
 Webster Drain Culvert Detail

PROJECT No.
 2017-847

APPROVED	NO.	REVISIONS	DATE	BY
R. DOBBIN	2	FINAL REPORT	MAY 8, 2019	MC
CHECKED	1	FOR CA APPROVAL	JAN. 18, 2018	JW
B. VAN RUITENBURG	SCALE 1:75			
DRAWN	0 2m			
J. WARNER				

CITY of KAWARTHA LAKES
WEBSTER DRAIN
ROAD CULVERT DETAIL

4
OF 4