

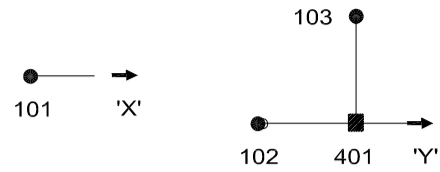
RAINFALL INTENSITY - DURATION - FREQUENCY VALUES

$I = AT^B$
I = RAINFALL RATE (mm/hr)
T = TIME (hrs)

	5 YR.	10 YR.	100 YR.
COEFF. A	25.2	29.0	40.8
EXPONENT B	-0.557	-0.557	-0.555

IDF VALUES PUBLISHED BY ENVIRONMENT CANADA FOR SHEARWATER AIRPORT WEATHER STATION BASE DATA FOR THE PERIOD 1955 - 1997.

PRE-DEVELOPMENT CONDITION



OTTHYMO MODEL SCHEMATIC

OTTHYMO MODEL SUMMARY OF UNIT HYDROGRAPH PARAMETERS

	DRAINAGE AREA		IMPERVIOUS AREA			PERVIOUS AREA	
	#	AREA (Ha)	XIMP	TIMP	DPSI (mm)	CN	IA (mm)
STANDHYD	101	0.9	0.40	0.80	1.5	78	5.0
	102	4.5	0.40	0.65	1.5	78	5.0
NASHYD	103	4.9				77	5.0

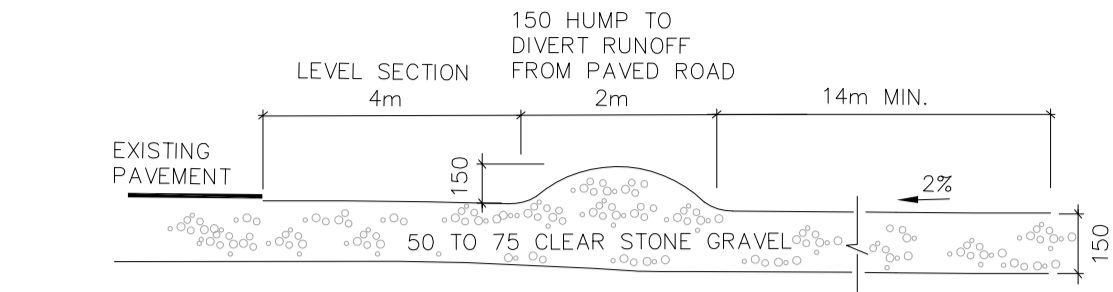
PRE-DEVELOPMENT PEAK FLOW ESTIMATES

REFERENCE POINT	PEAK FLOW (cms)		
	5 YR.	10 YR.	100 YR.
X	0.13	0.16	0.23
Y	0.68	0.84	1.46

POST-DEVELOPMENT PEAK FLOW

ON-SITE DETENTION STOARGE (COMBINED VOLUME OF SURFACE PONDING AND UNDERGROUND PIPE STORAGE) SHALL BE DESIGNED TO CONTROL THE POST DEVELOPMENT STORM WATER FLOWS TO PRE-DEVELOPMENT CONDITIONS.

EROSION & SEDIMENT CONTROL

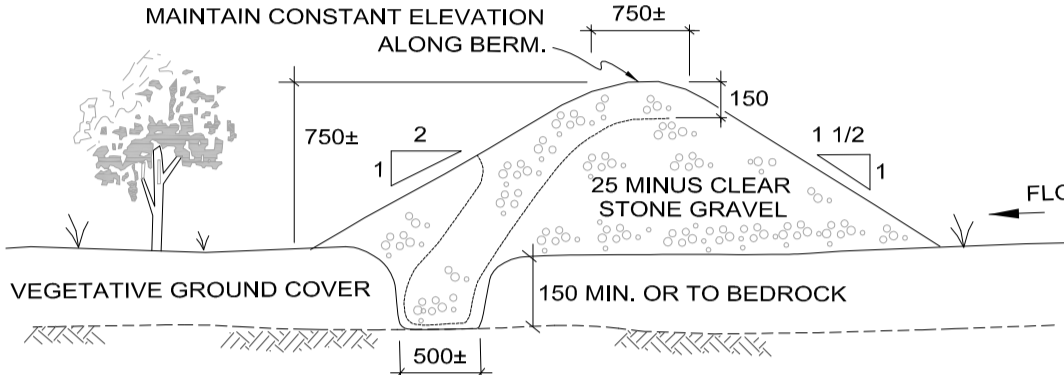


MAINTAIN GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE SITE. SHOULD MUD BE TRACKED OR WASHED ONTO THE EXISTING PAVED ROAD, IT MUST BE REMOVED IMMEDIATELY.

WIDTH - 6m FLARED TO EXISTING ROAD
LENGTH - 20m
GRADE - 2±

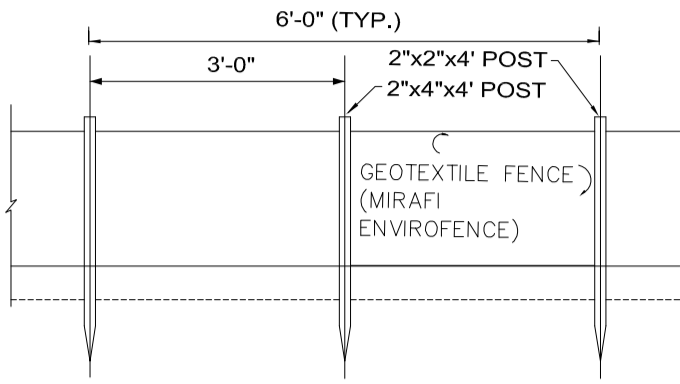
TEMPORARY GRAVEL CONSTRUCTION ENTRANCE

N.T.S.



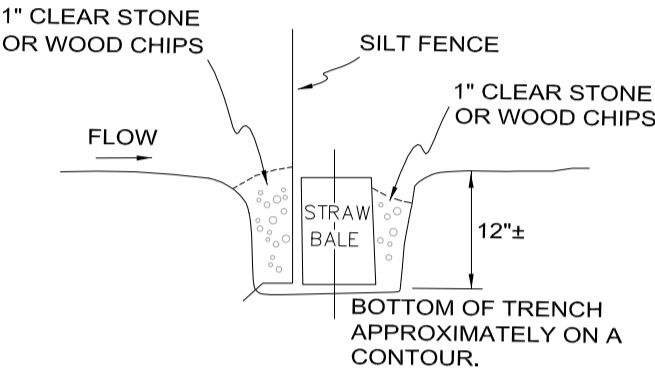
GRAVEL FILTER

N.T.S.



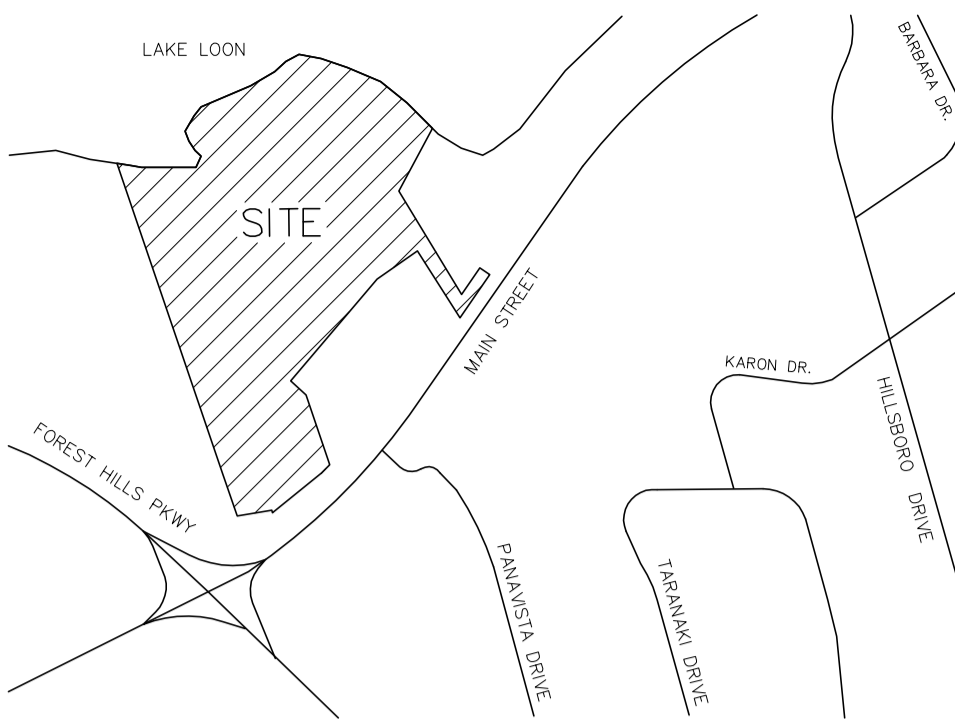
SILTATION FENCE

N.T.S.



FILTER SPREADER

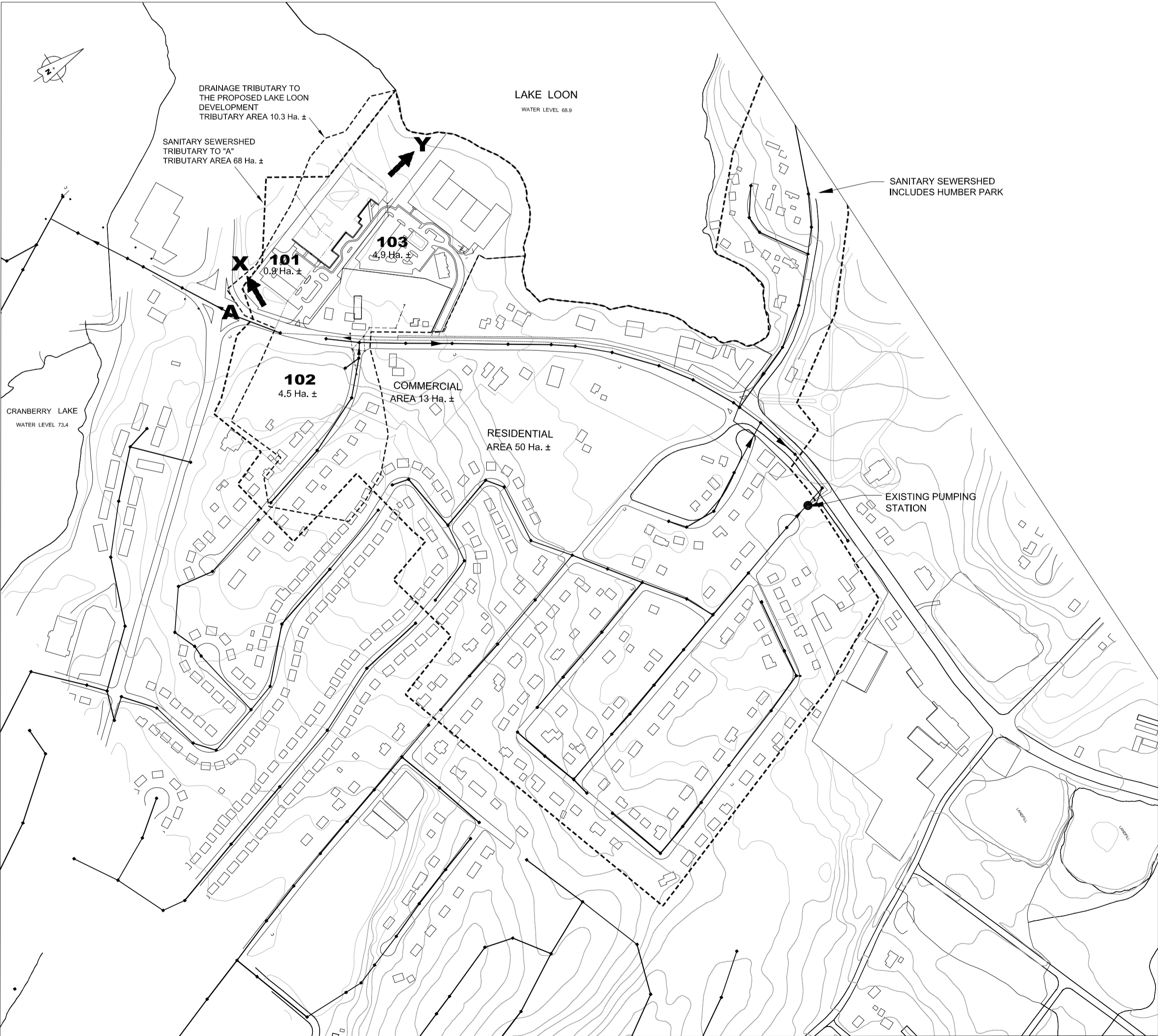
N.T.S.



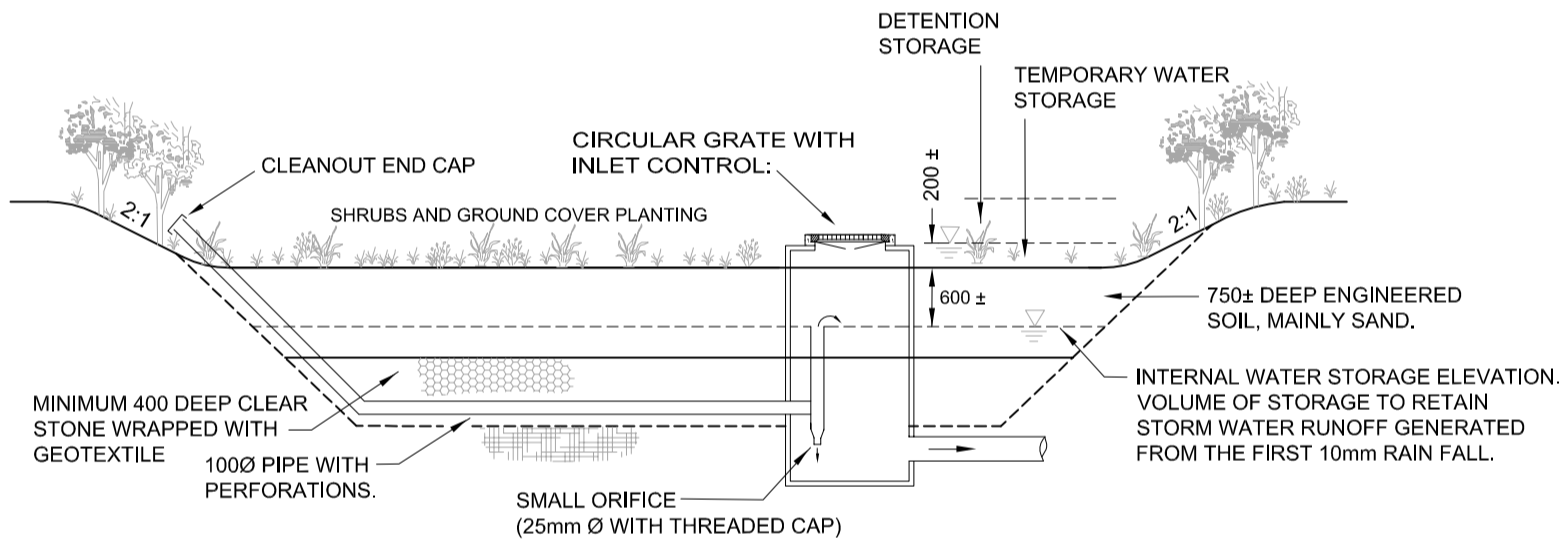
KEY PLAN

EROSION & SEDIMENT CONTROL

- ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE CONSTRUCTED AND MAINTAINED TO PROTECT ALL NATURAL WATERCOURSE FROM DAMAGE DUE TO SILT LADEN RUN-OFF FROM CONSTRUCTION.
- RECOMMENDED CONSTRUCTION AND MAINTENANCE PROCEDURES MAY BE OBTAINED FROM THE LATEST REVISION OF "EROSION AND SEDIMENTATION CONTROL HANDBOOK FOR CONSTRUCTION SITE", PREPARED BY THE NOVA SCOTIA DEPARTMENT OF THE ENVIRONMENT.
- PERIODICALLY INSPECT AND CORRECT EROSION AND SEDIMENTATION CONTROL MEASURES TO ENSURE CONTINUED EFFECTIVENESS.
- STABILIZE ALL DISTURBED AREAS TO PREVENT EROSION IMMEDIATELY AFTER COMPLETION OF WORK.
- PROTECT ALL POINTS OF CONSTRUCTION SITE ENTRANCE AND EXIT TO PREVENT TRACKING OF MUD ONTO PUBLIC STREETS.
- PRIOR TO COMMENCEMENT OF CONSTRUCTION INSTALL SILT CONTROL MEASURES SUCH AS SILT FENCE OR FILTER SPREADER OF GRAVEL FILTER.
- CONSTRUCT STORM SEWER TO DIVERT FLOW FROM OFF SITE DRAINAGE AWAY FROM THE WORK AREA. PUMP THE FLOW, IF REQUIRED AROUND THE WORK SITE.
- ANY SILT LADEN WATER PUMPED FROM THE TRENCH IS TO PASS THROUGH A FILTERING SYSTEM.

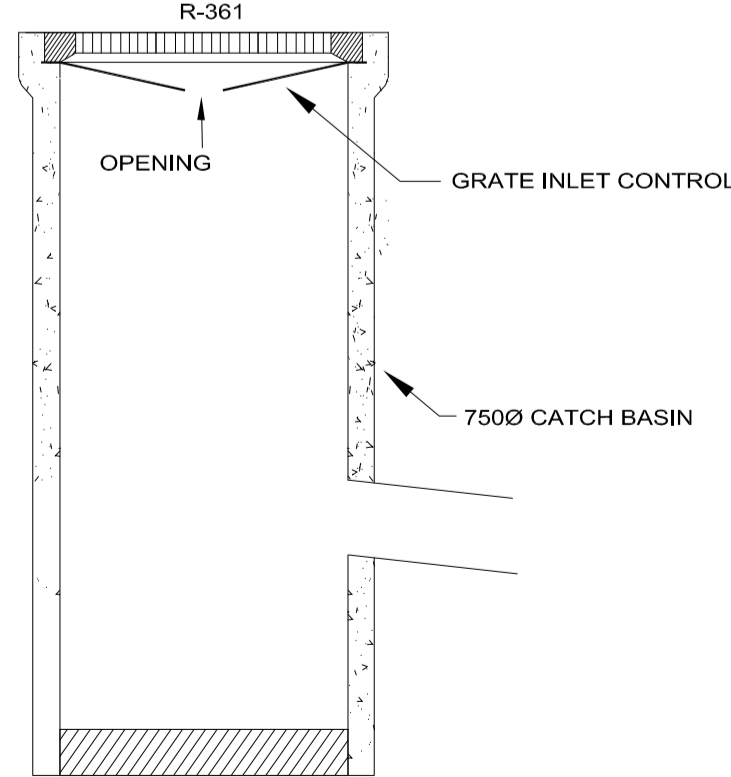


SCALE 1:4000



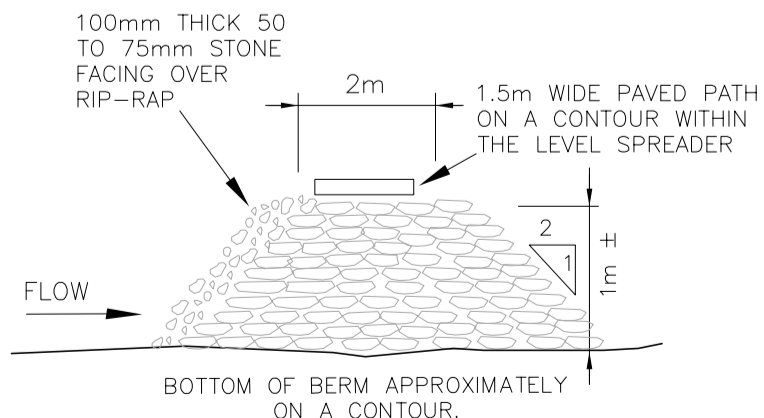
SECTION BIORETENTION FACILITY

N.T.S.



OFF SITE CATCH BASIN

N.T.S.



LEVEL SPREADER

N.T.S.

1	25 AUG. 21	ISSUED FOR APPROVAL	
NO.	DATE	REVISION DESCRIPTION	APPR'D



ckm engineering inc.

LANDS OF
QUEST CAPITAL INC.

PID 00619627

PID 41332503

DETAILS
CONCEPTUAL STORMWATER MANAGEMENT

LAKE LOON DEVELOPMENT

HIGHWAY No. 7 WESTPHAL, N.S.

DRAWN M.D.M. DATE AUGUST 25, 2021 PLAN NO. 21-171-03

ENGINEER SOORI SCALE AS SHOWN SHEET