Appendix N: Final Preferred Solutions Conceptual Designs – Georgian Creek Watershed
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LEGEND
- TRUNK STORM SEWER (PREFERRED ROUTE)
- EX. SANITARY SEWER
- EX. SANITARY MAINTENANCE HOLE
- EX. WATERCOURSE
- EX. WATERMAIN
- EX. STORM SEWER
- EX. STORM MAINTENANCE HOLE
- EX. PROPERTY LINE
- PROPERTY ACQUISITION

DRAINAGE MASTER PLAN
FINAL PREFERRED ALTERNATIVE SOLUTION
PROJECT No. 135
TRUNK STORM SEWER No. 3
GEORGIAN CREEK WATERSHED

SCALE = 1:2,500

DATE: MARCH 2019
SANITARY SEWER TO BE RELOCATED TO PROVIDE MINIMUM HORIZONTAL SEPARATION FROM STORM SEWER

TIE EXISTING STORM SEWER INTO PROPOSED TRUNK STORM SEWER (TYPICAL)

1215 mm x 815 mm CONC. HE TRUNK STORM SEWER

SANITARY SEWER TO BE RELOCATED TO PROVIDE MINIMUM HORIZONTAL SEPARATION FROM STORM SEWER

TIE PROPOSED STORM SEWER INTO EXISTING TRUNK STORM SEWER

EXISTING STORM SEWER TO REMAIN
(3000 mm x 2000 mm CONC. BOX)

AS PART OF DETAILED DESIGN, THE TRUNK STORM SEWER IS TO BE SIZED TO ELIMINATE OVERLAND FLOW DEFICIENCIES TO SUCH THAT THE CONSERVATION AUTHORITIES SAFE ACCESS/EGRESS CRITERIA IS SATISFIED.
PENETANGUISHENE RD:
ROAD CLASSIFICATION = ARTERIAL
DESIGN FLOOD FREQUENCY CRITERIA = 1:100 YEAR

EXISTING: 1000 mm ø CONC. CULVERT
CONVEYANCE CAPACITY = 1.9 m³/s (EXISTING FLOWS)
DESIGN FLOOD FREQUENCY = 1:2 YEAR
DEPTH OF OVERTOPPING = 0.48 m (REGULATORY EVENT)

PROPOSED: 2400 mm x 1200 mm CONC. BOX CULVERT
CONVEYANCE CAPACITY = 5.1 m³/s (FUTURE FLOWS)
DESIGN FLOOD FREQUENCY = 1:100 YEAR
DEPTH OF OVERTOPPING = 0.28 m (REGULATORY EVENT)