

# SUBDIVISION NAME

SUBDIVISION TYPE  
MINISTRY OF HOUSING

## #21T-830181

LIST OF DRAWINGS

### SUBDIVISION KEY PLAN



- ⑤ DENOTES PLAN & PROFILE
- ③ DENOTES GRADING PLAN

①
②
③
④
⑤

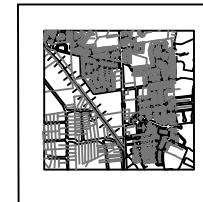


TOWN OF CALEDON

## WILTON DRIVE RECONSTRUCTION

### CONTRACT # 98-03

KEY PLAN  
NOT TO SCALE



LIST OF DRAWINGS

①
②
③
④

- ① TOWN OF CALEDON PUBLIC WORKS AND ENGINEERING DEPARTMENT  
CRAIG CAMPBELL, C.E.T. DIRECTOR
- ② REGIONAL MUNICIPALITY OF PEEL ENVIRONMENTAL, TRANSPORTATION, AND PLANNING SERVICES  
MITCH ZAMOJE, COMMISSIONER
- ③ CONSULTING ENGINEER & ADDRESS

- ④ LIST OF TOWN INFRASTRUCTURE  
-LENGTH OF ROAD (m)  
-LENGTH OF SEWERS (m)  
-NUMBER OF MANHOLES  
-NUMBER OF CATCHBASINS  
-NUMBER OF STREETLIGHTS
- ⑤ DEVELOPER'S NAME & ADDRESS

TOWN OF CALEDON					APR'D: C.C.	DATE: JUNE 08
TYPICAL TITLE PAGES		2	TEXT EDIT, STD No. 115 NOW 100		JUNE 08	DRAWN: SCALE: NTS
		1	TEXT EDIT		MAR. 08	
	NO.	REVISION	APR'D	DATE	STANDARD No. 100	

GENERAL NOTES - STORM SEWERS

- A. STORM SEWER TO BE PROVIDED ON ALL ROADS WITH CURB AND GUTTER.
- B. PLACE ALL CATCH BASIN LATERALS AT 2% GRADE UNLESS OTHERWISE NOTED. PIPE SIZE MINIMUM 250mm DIA. SINGLE, 300mm DIA. DOUBLE.
- C. STORM SEWERS SHALL BE CONSTRUCTED WITH BEDDING AS PER OPSD 802.030 FOR RIGID PIPE OR OPSD 802.010 WITH GRANULAR 'A' FOR FLEXIBLE PIPE UNLESS APPROVED OTHERWISE BY THE DIRECTOR OF PUBLIC WORKS AND ENGINEERING.
- D. MAINTENANCE HOLE TOPS (FRAMES) AND CATCHBASIN (FRAMES) ARE TO BE SET TO BASE COURSE ASPHALT AND THEN ADJUSTED TO FINAL GRADE WHEN THE TOP LIFT OF ASPHALT IS PLACED.
- E. STORM SEWER TO BE LOCATED OFFSET 1.5m SOUTH OR WEST OF CENTRELINE UNLESS OTHERWISE SPECIFIED.
- F. ALL CONNECTIONS TO THE STORM MAIN SHALL BE MADE WITH A STORM MANHOLE OR APPROVED FACTORY TEE CONNECTION AS PER OPSD 708.01 OR 708.03.
- G. PIPE MATERIAL TO BE REINFORCED CONCRETE WITH A STRENGTH OF 50 N/m/mm CERTIFIED TO C.S.A. STANDARD A247.2-1982, CLASS 50-D (PREVIOUSLY C.S.A. STANDARD A257.2-1974 CLASS II) OR PVC CERTIFIED TO C.S.A. STANDARDS 182.2 AND 182.4 MAX. PVC PIPE DIA. IS 600mm BIG O BOSS 2000 POLYETHYLENE PIPE WITH GASKETED BELL AND SPIGOT JOINTS CERTIFIED C.S.A. B182.6 FOR STORM SEWERS UP TO 900mm DIA. WHERE ONLY CONNECTION STD CATCHBASINS ARE CONSIDERED.
- H. STORM SEWER TO BE MINIMUM 300mm DIA. WITH JOINTS CONFORMING TO C.S.A. STANDARD A 257.3
- I. ALL PIPE BEDDING MUST CONFORM TO OPSD MAXIMUM COVER TABLE. NO FLEXIBLE PIPE SEWERS WILL BE INSTALLED WITH A DEPTH COVER GREATER THAN 6m UNLESS SPECIFICALLY APPROVED BY THE DIRECTOR OF PUBLIC WORKS AND ENGINEERING.
- J. ALL PIPE HANDLING INSTRUCTIONS MUST BE IN STRICT COMPLIANCE WITH MANUFACTURERS INSTALLATION GUIDES AND THE OCPA OR UNIBELL GUIDELINES.

TOWN OF CALEDON

**GENERAL NOTES  
STORM SEWERS**

				APRD:	C.C.	DATE:	MAR 01
2	STANDARD No. 120 NOV 101			DRAWN:	BJM	SCALE:	NTS
1	NOTES EDIT						
NO.	REVISION	APRD	DATE	STANDARD No. 101			

GENERAL NOTES - ROADWORKS

ROADS

- A. SINGLE - STAGE CURB & GUTTER TO COMPLY WITH OPSD 600.040 COMPLETE WITH 2 - 15M BARS
- B. TWO - STAGE CURB & GUTTER TO COMPLY WITH OPSD 600.070
- C. SIDEWALKS TO COMPLY WITH OPSD-310.010 AND ARE TO BE 1.5 METRES WIDE ON A 150mm COMPACTED GRANULAR "A" BASE. MINIMUM THICKNESS AS FOLLOWS :
  - NORMAL THICKNESS 125mm.
  - RESIDENTIAL DRIVEWAY 150mm
  - COMMERCIAL/INDUSTRIAL DRIVEWAY 200mm
 (REINFORCEMENT AS PER OPSS IF REQUIRED)
- D. NATIVE SUBGRADE SHALL HAVE A CROSSFALL OF 3 % AND THE MATERIAL SHALL BE APPROVED BY A SOILS CONSULTANT AND IS SUBJECT TO APPROVAL BY THE DIRECTOR OF PUBLIC WORKS AND ENGINEERING.
- E. THE ROAD BASE SHALL INCORPORATE 100mm DIAMETER SUBDRAIN WITH FACTORY INSTALLED FILTER FABRIC AS PER TOWN OF CALEDON STANDARD No. 240.
- F. ALL CURB RADII TO BE MINIMUM OF 10.0 METRES RESIDENTIAL AND 15.0 METRES INDUSTRIAL AT THE EDGE OF ASPHALT.
- G. NATIVE SUBGRADE TO BE COMPACTED TO MINIMUM 95 % STANDARD PROCTOR MAXIMUM DRY DENSITY AND SHALL BE PROOF ROLLED.
- H. GRADE AND CROSS FALL ADJUSTMENT OF MAINTENANCE HOLE AND CATCH BASIN FRAMES WILL BE MADE USING PRODUCTS SPECIFICALLY MANUFACTURED FOR THAT PURPOSE AS PER OPSD 704.010.
- I. NON-COMPRESSIBLE BACK FILL WILL BE USED DURING REBUILDING, ADJUSTING, OR ANY OTHER APPLICABLE CATCH BASIN OR MAINTENANCE HOLE WORKS.
- J. CURB AND SIDEWALK CONCRETE SHALL BE 30MPa AT 28 DAYS WITH 7% +/- 1.5% ENTRAINED AIR AND NOT LESS THAN 355 kg/m3 OF CEMENT. (PER OPSS 315 AND 353)

TOWN OF CALEDON		APRD:	C.C.	DATE:	DEC 1999
-----------------	--	-------	------	-------	----------

GENERAL NOTES ROADWORKS		2	STANDARD No. 125 NOW 102	JUNE 08	DRAWN: BJM SCALE: NTS
		1	NOTES EDIT	MAR. 08	
NO.	REVISION	APRD	DATE	STANDARD No. 102	

GENERAL NOTES - LANDSCAPING

**NOTE 1**

DEPICTED ON THIS PLAN ARE THE SPECIES AND THE APPROXIMATE LOCATION OF STREET TREE. ONCE DRIVEWAYS, UTILITIES AND LIGHT STANDARDS HAVE BEEN INSTALLED, THE EXACT LOCATION OF STREET TREES WILL BE DETERMINED ON SITE BY THE LANDSCAPE ARCHITECT AND APPROVED BY THE MUNICIPALITY PRIOR TO PLANTING.

**NOTE 2**

MINIMUM CLEARANCES FOR STREET TREES (WHEN TREES ARE PLANTED 1.5M FROM THE CURB):

\*2M FROM WATER HYDRANTS

\*2M FROM DRIVEWAYS

\*2M FROM NEIGHBOURHOOD MAILBOXES

3M FROM HYDRO TRANSFORMERS

5M FROM STREETLIGHTS

15M MINIMUM FROM STREET LINE (STREET INTERSECTION AS MEASURED FROM BACK OF CURB) AND BEHIND THE DAYLIGHT TRIANGLE AS PER THE GEOMETRIC DESIGN STANDARDS FOR ONTARIO HIGHWAYS

18M FROM FACE OF ALL WARNING AND REGULATORY SIGNS

WHEN THE MINIMUM DISTANCES NOTED ABOVE ARE NOT ACHIEVABLE, TREES MAY BE PLANTED IN AN ALTERNATE LOCATION, 0.5M FROM THE PROPERTY LINE (80CM BEHIND THE SIDEWALK) AND ADJACENT TO ANY FENCES, OR JUST INSIDE THE STREET LINE ON PRIVATE PROPERTY, AS MIGHT BE THE CASE IN A CUL-DE-SAC. IF A TREE IS PLANTED IN AN ALTERNATE LOCATION, THE DISTANCES MARKED WITH AN ASTERISK MUST STILL BE MAINTAINED.

**NOTE 3**

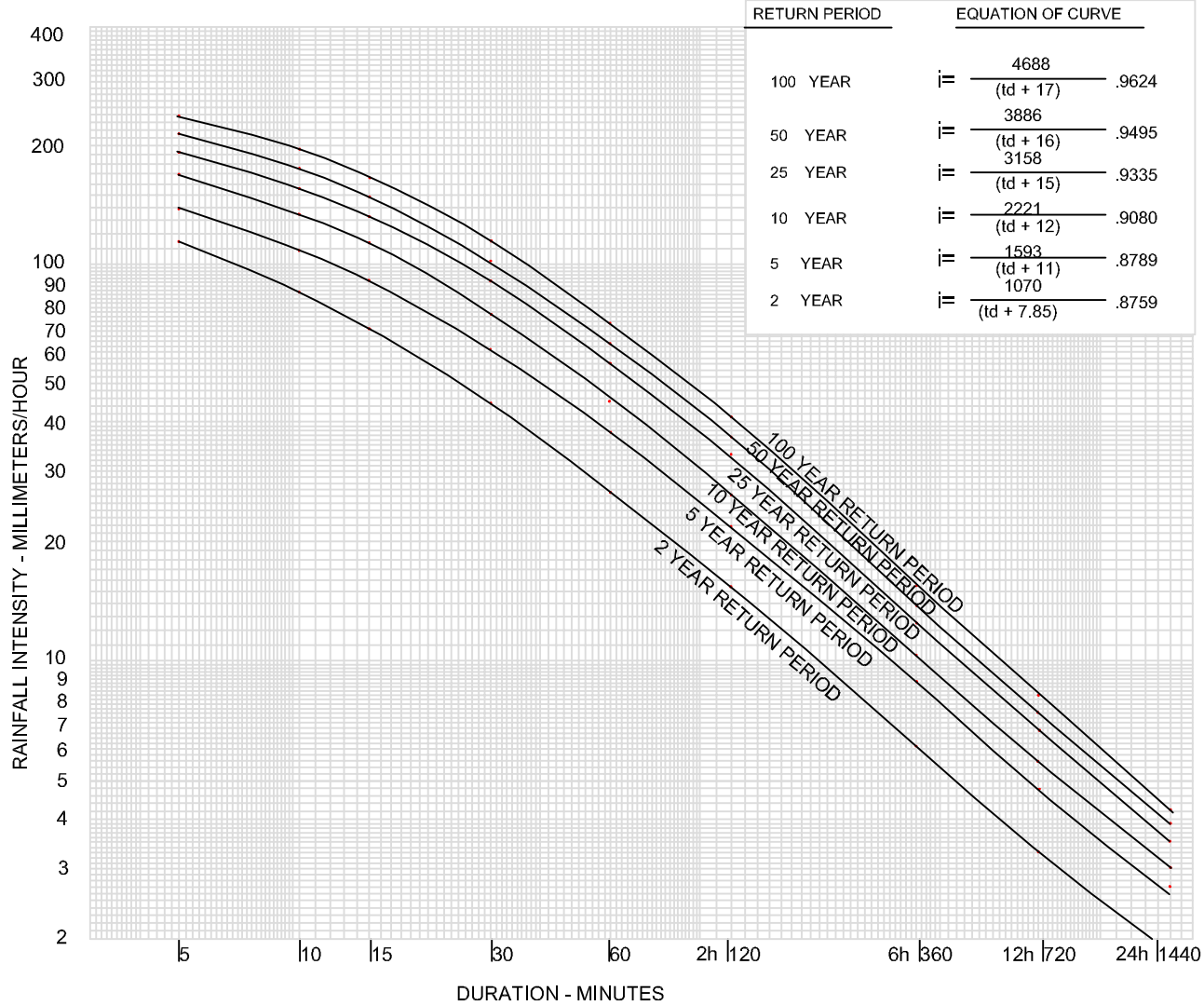
THE TREE PITS AND PLANTING BEDS FOR ALL TREES AND SHRUBS LOCATED WITHIN 1 METRE OF UNDERGROUND UTILITIES ARE TO BE HAND DUG.

**NOTE 4**

MINIMUM CLEARANCE FOR FENCES:

1M FROM FIRE HYDRANTS

TOWN OF CALEDON					APR'D: C.C.	DATE: APRIL 2000
GENERAL NOTES LANDSCAPING					DRAWN: BJM	SCALE: NTS
		1	STANDARD No. 130 NOW 103		JUNE 08	
		NO.	REVISION	APR'D	DATE	STANDARD No. 103



RETURN PERIOD	EQUATION OF CURVE
100 YEAR	$i = \frac{4688}{(td + 17)^{.9624}}$
50 YEAR	$i = \frac{3886}{(td + 16)^{.9495}}$
25 YEAR	$i = \frac{3158}{(td + 15)^{.9335}}$
10 YEAR	$i = \frac{2221}{(td + 12)^{.9080}}$
5 YEAR	$i = \frac{1593}{(td + 11)^{.8789}}$
2 YEAR	$i = \frac{1070}{(td + 7.85)^{.8759}}$

**INLET TIMES**

SUBURBAN RESIDENTIAL (ROOF DRAINS UNCONNECTED)	15 min
(ROOF DRAINS CONNECTED)	10 min
SUBURBAN, COMMERCIAL, INDUSTRIAL MULTIPLE FAMILY	10 min
DOWNTOWN COMMERCIAL, HIGH DENSITY APARTMENTS, EXPRESSWAYS	5 min

**RUNOFF COEFFICIENT**

COMMERCIAL - DOWNTOWN & SUBURBAN SHOPPING	0.90
INDUSTRIAL - DOWNTOWN	0.90
- SUBURBAN INDUSTRIAL PARKS	0.75
RESIDENTIAL - APARTMENTS	0.75
- ROW DWELLINGS	0.70
- DUPLEX DWELLINGS	0.70
- SEMIDETACHED - DOWNTOWN	0.60
- SINGLE FAMILY - DOWNTOWN	0.60
- SEMIDETACHED - SUBURBAN	0.50
- SINGLE FAMILY - SUBURBAN	0.40
SCHOOLS, CHURCHES, HOSPITALS	0.75
PARKS, CEMETERIES, RAIL YARDS (OVER 4 Ha)	0.20
(UNDER 4 Ha)	0.25

TOWN OF CALEDON				APR'D: C.C.	DATE: FEB 2000
RAINFALL INTENSITY CURVES				DRAWN: BJM	SCALE: N.T.S.
		1	STANDARD 112.01 NOW 104	JUNE 08	STANDARD No. 104
NO.	REVISION	APR'D	DATE		





**Town of  
Caledon  
and  
Public Works  
Engineering  
Department  
First  
Submission  
Minimum  
Requirements**

	Compliant	Non Compliant	
			<b>ENGINEERING DRAWINGS (3 Complete Rolled Sets)</b>
			Proposed Plan for Registration
			Cover Sheet/Legend Sheet
			General Above Ground Services Plan
			General Below Ground Services Plan
			Storm Drainage Plan
			Erosion and Sediment Control Plan
			Plan/Profile Drawings
			Miscellaneous Plans and Detail Drawings
			Grading Plan
			Grading Plan for Park Blocks
			Grading Plan for School Blocks
			Topsoil Management Plan
			Detail Drawings for Outlets and or Watercourse Improvements
			Street Light Plan and Photometrics
			<b>LANDSCAPE DRAWINGS 2 COMPLETE FOLDED SETS</b>
			Streetscape/buffer planting
			Stormwater Management pond planting
			Vegetation Analysis and Tree Preservation Survey
			Park Concept and Facility Fit Plan
			Park Grading Plan
			<b>Reports</b>
			2 Copies of Storm Water Management Report
			2 Copies of Storm Sewer Design Sheets
			2 Copies of the Acoustical Report
			2 Copies of Arborist Report (if required)
			2 Copies of Soils Report including Environmental Site Assessment
			2 Copies of Traffic Impact Analysis
			2 Copies Topsoil Management Report
			2 Copies of Schedules (see Development Guidelines)
			<b>Letters</b>
			Civil Engineers Letter of Retention (c/w Detailed Cost Estimate)
			2 Copies of the OLS letter Re: No changes to M-Plan since Zoning
			Electrical Engineers Letter of Retention
			Geotechnical Consultant Letter of Retention
			Letter indicating the conditios of Draft Approval
			Landscape Architect Letter of Retention (c/w cost estimate)

21T-

Description (Development Name):

Location:

Number of Lots:

kn of Roads:

Phase No.:

Date Received:

Process Fee at 2% of Town Costs

Enter estimate of Town costs below	
	<b>Total Amount Due</b>
	\$ <input type="text"/>

**Comments**

# Town of Caledon and Engineering Department Second Submission Minimum Requirements

21T-  
Description (Development Name):  
Location:  
Number of Lots:  
km of Roads:  
Phase No.:  
Date Received:

Compliant	Non Compliant	
		<b>ENGINEERING DRAWINGS (2 Complete Rolled Sets)</b>
		Marked-up Engineering Drawings from Review of First Submission
		2 Complete Sets of Revised Engineering Drawings
		2 Composite Utility Plans including Streetlighting Plan
		2 Hydro One Servicing Plan
		2 copies of any Engineering Drawings not Previously Submitted
		<b>LANDSCAPE DRAWINGS 2 COMPLETE FOLDED SETS</b>
		Marked up Landscape Drawings from first submission
		2 Complete sets of revised Landscape Drawings
		2 Copies of any Landscape Drawings not previously submitted
		<b>2 Copies of Proposed M-/R- Plans</b>

Compliant	Non Compliant	
		<b>Reports</b>
		2 Copies of Revised SWM Report
		2 Copies of Revised Storm Sewer Design Sheets
		2 Copies of Revised Acoustical Report
		2 copies of Revised Arborist Report (if required)
		Topsoil Management Report (depths of topsoil etc, no topsoil to leave site without Town En permission)
		2 Copies of revised Traffic Impact Analysis
		2 Copies of Revised Subdivision Agreement Schedules

Compliant	Non Compliant	
		<b>Letters</b>
		2 Copies of Other Agencies Comments (CVC, TRCA, MTO, Region, MOE, etc)
		Letter from Engineer outlining submission contents
		Revised breakdown of cost for civil Works
		Original plus two (2) copies of Ministry of Environment application forms
		Letter from Landscape Architect outlining submission contents
		Revised breakdown of cost for Landscaping Works

**COMMENTS**

# Town of Caledon Public Works and Engineering Department Final Submission Minimum Requirements

21T-	
Description (Development Name):	
Location:	
Number of Lots:	
km of Roads:	
Phase No.:	
Date Received:	

	Compliant	Non Compliant	
			<b>DRAWINGS (2 Complete Sets)</b>
			Marked-up Drawings from Review of Second Submission
			1 Complete Set of Revised Engineering Drawings
			1 complete Set of Engineering Drawings Stamped Signed and Dated
			1 complete Set of Revised Landscaping Drawings
			1 Complete Set of Landscaping Drawings Stamped Signed and Dated
			Hydro One Servicing Drawing
			Bell Canada Servicing Drawing
			Cable Television Servicing Drawing (if applicable)
			1 Copy of Proposed M-/R- Plans

	Compliant	Non Compliant	
			<b>Reports</b>
			2 Copies of Final SWM Report
			2 Copies of Final Storm Sewer Design Sheets
			2 Copies of Final Acoustical report
			2 Copies of Final Arborist report (if applicable)
			2 copies of Final Topsoil Management Report (depths of topsoil etc, no topsoil to leave site without Town Eng permission)
			2 Copies of Final Traffic Impact Analysis
			2 Copies of Final Subdivision Agreement Schedules

	Compliant	Non Compliant	
			<b>Letters</b>
			2 Copies of Other Agencies Comments (CVC, TRCA, MTO, Region, MOE, etc)
			Revised Subdivision Schedules
			Letter from Engineer outlining submission Contents
			Letter from Landscape Architect outlining submission contents
			Revised Breakdown of Final Engineering & Landscaping cost estimates
			Letters from Hydro, Bell, Gas, Cable TV, Canada Post regarding installation of Services

**COMMENTS**

DWG-109