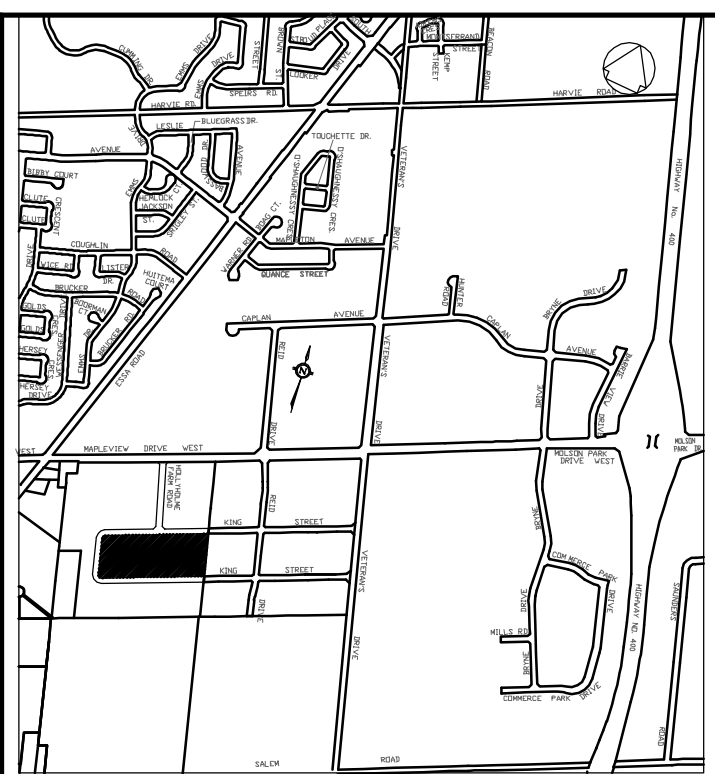




- LEGEND**
- × 311.86 DENOTES APPROVED SUBDIVISION ELEVATION
  - × 310.60 DENOTES PROPOSED ELEVATION
  - × (310.60) DENOTES EXISTING ELEVATION
  - ⊕ HYD. DENOTES HYDRANT AND VALVE
  - ⊗ DENOTES VALVE AND BOX
  - DENOTES CATCHBASIN
  - DENOTES DOUBLE CATCHBASIN
  - DENOTES EXISTING TREES
  - DENOTES STORM MANHOLE
  - DENOTES SANITARY MANHOLE
  - DENOTES STORM CONNECTION
  - DENOTES WATER CONNECTION
  - DENOTES SANITARY CONNECTION
  - DENOTES PROPOSED SILT FENCES FOR SILTATION CONTROL NOTES
  - DENOTES OVERLAND FLOW
  - DENOTES PONDING AREA
  - S.C. DENOTES SIAMESE CONNECTION

GENERAL NOTES

1. Standard drawings of the City of Barrie constitute part of the site plan drawing(s).

2. All construction work to be carried out in accordance with the requirements of the Occupational Health and Safety Act and Regulations for construction projects.

3. The Contractor shall rectify all disturbed areas to original condition or better and to the satisfaction of the City.

4. The location of such utilities and structures is approximate only, and where shown on the drawing(s) the accuracy of the location of such utilities is not guaranteed. The Contractor shall determine the location of all such utilities and structures and shall assume all liability for damage or restoration to same.

5. Any conflicts with existing services shall be rectified at the Owner's expense.

6. Sanitary and storm control manholes shall be in accordance with City Standard. Frame and cover shall be McCoy HM311 or approved equal.

7. All sanitary manhole covers in the ponding areas to be water tight sealed covers.

8. All catchbasins shall be installed in accordance with OPSD 705.02 & 705.01 for singles and double respectively.

9. All catchbasin frames and covers shall be McCoy HM311 or approved equal.

10. All industrial/commercial/condominium watermain connections shall be constructed in accordance with City of Barrie Std.

11. Watermain shall have a minimum vertical separation of 0.5m and horizontal separation of 2.5m between any sewer or manhole.

12. Hydrants to be installed as per OPSD 1104.01.

13. Driveway entrance shall be constructed with heavy duty asphalt from the back of the municipal curb or edge of pavement to the property line (area highlighted on drawing) in accordance with City of Barrie Standard incl. D/W curb as per Std. 203 and heavy duty asphalt as follows:

- (a) 50mm compacted depth of HLB asphalt - top course
- (b) 75mm compacted depth of HLB asphalt - binder course
- (c) 150mm compacted depth of 20mm crusher run limestone - granular base
- (d) 300mm compacted depth of 50mm crusher run limestone - granular sub-base

14. All concrete curb shall be barrier curb. All concrete curb heights shall be 150mm unless otherwise noted.

15. Driveway curb to be discontinuous at sidewalk and tapered back 600mm minimum.

16. All required curb cutting at driveway entrance(s) and curb depression at sidewalk crossings shall be installed to the satisfaction of the City.

17. Sidewalk to be 180mm thick through driveway entrances per City Standard.

18. Sidewalk to be continuous across driveway entrances.

19. Frost collars are to be provided on curb stops and valve boxes when located within the limits of the driveway.

20. Driveway shall be setback a minimum clearance of 1.0m from all above ground services or other obstructions.

21. Appropriate construction details should be provided for retaining walls higher than 1.0m. Details shall be designed and certified by a professional engineer upon approval.

22. Handrail/guard as per OPSD 980.101 is required when height of wall exceeds 0.60m.

23. Landscaping shall not encroach on boulevard nor shall boulevard grades be altered.

24. Slopes in landscaped areas and on berms shall not exceed 3 horizontal to 1 vertical.

25. Pavement grades (min. 0.5%, max. 6%).

26. Drainage swales with grades (min. 1%, max. 5%).

27. Outside lighting shall be directed downward and inward and designed to maintained zero cut-off light level distribution at the property line.

28. Sanitary, storm and water service connections which are not in place on the municipal road allowance (s) the property line shall be arranged for installation of the service connection(s). The owner shall file an application with the City of Barrie which includes a copy(s) of the approved site plan drawing(s).

29. Silt fence(s) to be installed and maintained to prevent silt flowing onto adjacent lands.

30. Construction access shall be constructed with a minimum depth of 300mm crushed stone base from the municipal curb or edge of pavement to the property line, to the satisfaction of the City.

31. The surface of all loading spaces and related driveways, parking spaces, and maneuvering areas within the site shall be paved with a hard surface. The recommended minimum depth requirements are as follows:

- (a) 40mm compacted depth of HLB asphalt - top course
- (b) 85mm compacted depth of HLB asphalt - binder course
- (c) 200mm compacted depth of granular sub-base
- (d) 235mm compacted depth of granular base

32. All sanitary sewers and connections shall be PVC pipe per ASTM D3034-74 having a dimension ratio (SDR) of 35.

33. All storm sewers shall be concrete pipe per CSA A257.2 or PVC SDR35 pipe per ASTM D3034 specifications.

34. Connections shall be PVC SDR35 conforming to ASTM D3034 specifications.

35. Minimum bedding requirements for storm and sanitary sewers Class B per City Standard.

36. Watermain and water services less than or equal to 50mm I.D. shall be ASTM B88 Type "K" copper Warran-Hersey Certified c/w compression style joints. Water service connections shall be installed per City of Barrie Standard.

37. All watermain pipes greater or equal to 100mm I.D. shall be PVC pipe Class 150 (DB18) and satisfy AWWA C900-74 specifications.

38. All fittings shall be mechanical joint cement lined cast iron pipe watermain. Depth of cover shall be 1.70m. Bedding shall be granular material as per OPSD 1102.01, Class B. Watermain valves and boxes to be as per City of Barrie Standard.

39. All work shall be done to the City of Barrie Standards & Specifications.

BENCH MARK

No. REVISIONS DATE APPROVED

CITY OF BARRIE APPROVED

DATE

CITY ENGINEER

Design

F.J. TERNOWY & ASSOCIATES LIMITED

4265 SHERWOODTOWNE BOULEVARD, SUITE 300

MISSISSAUGA, ONTARIO, L4Z 1Y5, TEL. 896-3933

ENGINEERS PROJECT MANAGERS PLANNERS

SITE SERVICING & GRADING PLAN

LOT 10 & 11, PLAN 51M-822

MAPLEVIEW INDUSTRIAL PARK, BARRIE

KINGSLEA DEVELOPMENTS

CITY of BARRIE

ENGINEERING DEPARTMENT

DESIGN A.A. SCALE HOR. 1 : 300 VERT.

DRAWN A.A. REVIEWED L.T.

DATE APRIL 24, 2008 SHEET No. DRAWING No. 372-501

PRELIMINARY - NOT APPROVED FOR CONSTRUCTION