

**GENERAL NOTES:** 

- 1. A ROAD OCCUPANCY PERMIT IS REQUIRED FROM THE ENGINEERING DEPARTMENT PRIOR TO THE COMMENCEMENT OF WORK WITHIN ANY CITY RIGHT-OF-WAY.
- A TOPSOIL PERMIT IS REQUIRED FROM THE ENGINEERING DEPARTMENT PRIOR THE COMMENCEMENT OF ANY EARTH WORKS ON THE SITE.
- 3. BUILDING CONNECTIONS TO BE LEFT 2.0m FROM THE CLOSEST BUILDING PROJECTION, CAPPED AND STAKED. 4. ALL EXISTING SERVICES TO THE PROPERTY ARE TO BE LOCATED AND WHERE THEY ARE NOT REQUIRED, ARE TO BE DECOMMISSIONED AND CAPPED AT THE PROPERTY LINE OR MAIN, AS REQUIRED BY THE CITY, AT THE OWNER'S EXPENSE. CITY OPERATIONS STAFF TO BE NOTIFIED A MINIMUM OF 48 HOURS (2 BUSINESS DAYS) BY THE CONTRACTOR PRIOR TO DECOMALS LOWER.
- 5. EXISTING SERVICING INFORMATION OBTAINED FROM THE CITY O BARRIE. ALL LOCATIONS AND ELEVATIONS OF UNDERGROUND SERVICES MUST BE VERIFIED PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO EAGLEBROOKE ENGINEERING LIMITED.
- . WHERE PROPOSED SERVICES CROSS OVER OR UNDER EXISTING SERVICES, EXISTING INVERTS AND/OR OBVERTS SHALL BE VERIFIED BY THE CONTRACTOR FOR LOCATION AND ELEVATION PRIOR TO CONSTRUCTION. THE INFORMATION OBTAINED SHALL BE FORWARDED TO EAGLEBROOKE ENGINEERING LIMITED TO DETERMINE IF ANY DESIGN REVISIONS ARE
- 7. TRENCH BOX CONSTRUCTION SHALL BE UTILIZED FOR WORKS WITHIN THE ROAD
- 8. FOR SERVICING DETAILS WITHIN THE BUILDING ENVELOPE, REFER T
- MECHANICAL DRAWINGS. 9. THE OWNER SHALL PERFORM ANNUAL INSPECTIONS AND MAINTENANCE OF THE STORM SEWER SYSTEM.

## **GRADING NOTES:**

**WATERMAIN NOTES:** 

TO DECOMMISSIONING.

- 1. MAXIMUM SLOPE TO BE 3:1, UNLESS OTHERWISE NOTED. 2. GRADING TO MATCH EXISTING GRADES ALONG PROPERTY LINES.
- 3. SEDIMENT CONTROL FENCE AND/OR CONSTRUCTION HOARDING SHALL BE INSTALLED IN AREAS WHERE THE PROPOSED GRADING IS HIGHER THAN THE ADJACENT PROPERTY GRADES AND SHALL REMAIN IN PLACE AT ALL
- TIMES DURING CONSTRUCTION.
- 4. ALL DISTURBED AREAS TO BE RESTORED WITH 100mm DEPTH (MIN.) TOPSOIL AND SOD, UNLESS OTHERWISE NOTED.
- 5. THE PAVEMENT STRUCTURE SHALL BE AS SPECIFIED BY THE PROJECT GEOTECHNICAL ENGINEER. 6. MINIMUM ALLOWABLE COMPACTION REQUIREMENTS OF THE SITE SHALL BE AS
- SPECIFIED BY THE PROJECT GEOTECHNICAL ENGINEER. 7. CURB DEPRESSIONS ALONG REID DRIVE, ACROSS THE PROPOSED
- DRIVEWAY ENTRANCE, TO BE CONSTRUCTED AS PER OPSD 600.040. 8. DRIVEWAY ENTRANCES TO BE CONSTRUCTED AS PER OPSD 350.010.
- 9. DRIVEWAY ENTRANCE BORDER CURB TO BE CONSTRUCTED AS PER OPSI 600.110.
- 10.MUNICIPAL CONCRETE SIDEWALK ACROSS THE PROPOSED DRIVEWAY ACCESSES TO BE CONSTRUCTED AS PER OPSD 310.010. 11. EXISTING CURB CUTS ALONG REID DRIVE TO BE REPLACED WITH FULI CURB, AS PER OPSD 600.040. ADJACENT BOULEVARD AND/OR SIDEWALK TO BE REGRADED, REPLACED AND RESTORED, AS REQUIRED, TO MEET THE NEW CURB. DAMAGED ROADWAY ASPHALT SHALL BE SAWCUT AND
- 12. SURPLUS MATERIAL, IF ANY, TO BE DISPOSED OF OFF-SITE.
- 13. WHERE NEW ASPHALT MATCHES EXISTING ASPHALT, GRIND EXISTING ASPHALT A MINIMUM OF 300mm WIDE AND 40mm DEEP FOR KEYING. APPLY HOT RUBBER SEALING COMPOUND IN ACCORDANCE WITH OPSS 1212.
- 14.A MINIMUM CLEARANCE OF 1.0m MUST BE PROVIDED AND MAINTAINED FROM THE PROPOSED DRIVEWAY TO ANY HYDRO STREET LIGHT/UTILITY POLES, FIRE HYDRANTS OR OTHER ABOVE GROUND FIXTURES. IF THIS CLEARANCE IS NOT MAINTAINED, THEY MUST BE RELOCATED BY THE AFFECTED UTILITY COMPANY OR CITY, AS THE CASE MAY BE, AT THE APPLICANT'S EXPENSE.

CONTRACTOR SHALL INFORM THE CITY OF BARRIE WATER OPERATIONS DEPARTMENT A MINIMUM OF 48 HOURS IN ADVANCE OF THEIR

OPERATION OF HYDRANTS AND VALVES ON THE POTABLE WATER SYSTEM

BY OTHER THAN QUALIFIED WATER OPERATIONS STAFF IS PROHIBITED BY CURRENT BY-LAW. CITY SERVICE FEES ARE PER THE CURRENT FEES BY-LAW. THE CITY'S WATER OPERATIONS STAFF WILL SWAB, PRESSURE

3. MINIMUM COVER OVER WATERMAIN TO BE 1.7M. THE MINIMUM HORIZONTAL SEPARATION BETWEEN WATERMAIN AND SEWERS SHALL BE 2.5M. WHERE WATERMAIN CONFLICTS WITH SEWER PIPES, DEFLECT WATERMAIN HORIZONTALLY OR VERTICALLY WHILE PROVIDING A MINIMUM

4. WATERMAIN SHALL BE INSTALLED IN BEDDING AS PER OPSD 802.010 (GRANULAR 'A' EMBEDMENT MATERIAL) FOR FLEXIBLE PIPES AND OPSD 802.030 OR 802.031 CLASS 'B' (GRANULAR 'A' BEDDING MATERIAL, GRANULAR 'A' OR SELECT NATIVE COVER MATERIAL) FOR RIGID PIPE

UNLESS OTHERWISE APPROVED BY THE DIRECTOR OF WATER OPERATIONS ALTERNATIVE EMBEDMENT MATERIAL — SAND MEETING GRADATIO

REQUIREMENTS OF OPSS.MUNI 1004.05.07 COMPACTED TO 95% STANDARD PROCTOR MAXIMUM DRY DENSITY IS PERMISSIBLE WHERE NOTED IN

STANDARD DETAILS. GEOTECHNICAL CERTIFICATION OF MATERIAL AN COMPACTION TESTING MUST BE PROVIDED EVERY 150M. THE COMPACTIO

TESTING MUST INCLUDE THE ENTIRE EMBEDMENT ENVELOPE (HAUNCHES

5. COPPER WATERMAINS AND SERVICES 25mm TO 50MM IN DIAMETER SHAL BE EMBEDDED IN SAND 100MM ABOVE AND BELOW TO CONFORM TO

6. RESTRAINING WILL BE REQUIRED ON ALL HYDRANTS. THRUST BLOCKS AS PER OPSD 1103.010 AND 1103.020. RESTRAINING DEVICES MAY BE REQUIRED IN ADDITION TO STANDARD CONCRETE THRUST BLOCKING WHERE SOIL CONDITIONS WARRANT AT THE CITY'S DISCRETION.

7. NEW WATERMAINS TO BE PVC DR18 CL150 MINIMUM; DUCTILE IRON CL52
AS PER THE APPROVED MANUFACTURERS PRODUCTS FOR LINEAR WATER

8. TRACING WIRE SHALL BE #12 AWG HIGH STRENGTH COPPER CLAD (HS-CSS) AND SHALL BE INSTALLED ON THE TOTAL LENGTH OF ALL WATERMAIN AND BROUGHT UP AT EACH HYDRANT AND CONNECTED TO

FLANGE BOLT. ALL SPLICES TO UTILIZE CONNECTORS AS PER T APPROVED MANUFACTURERS PRODUCTS FOR LINEAR WATER SYSTEMS LIST

9. ALL WATER SERVICES SHALL BE MINIMUM 25mm TYPE 'K' COPPER O

10.SERVICE TAPPINGS SHALL BE PLACED AT A MINIMUM SEPARATION OF 1.0m AND A MINIMUM OF 0.6m FROM JOINTS (ENDS OF PIPE).

11.RISER PIPES ARE TO BE INSTALLED AS PER BSD-510, AND REMOVED AS DIRECTED. SWABBING SCHEDULE TO BE SUPPLIED BY A WATER OPERATIONS FIELD REPRESENTATIVE. ALL RISERS ARE TO BE

12.ALL NEW CURB STOPS AND BOXES TO BE LOCATED AT PROPERTY

25mm CROSS-LINKED POLYETHYLENE UNLESS OTHERWISE APPROVED BY THE DIRECTOR OF WATER OPERATIONS. WATER SERVICE SADDLES SHALL

OF 0.5M CLEARANCE BETWEEN WATERMAIN AND SEWERS. MAINTAIN

INTENTIONS TO PERFORM WORK ON WATER INFRASTRUCTURE.

TEST, CHLORINATE AND FLUSH ALL NEW WATERMAINS.

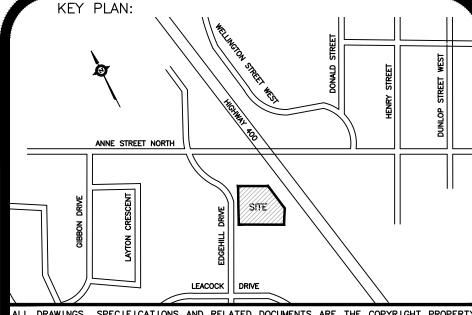
MINIMUM DEPTH OF COVER AT ALL TIMES.

BEDDING, TOP OF PIPE AND COVER).

RESTRAINED OR THRUST BLOCKED.

LINE AND OUT OF DRIVEWAYS AND SIDEWALKS.

OPSS.MUNI 1004.05.07.



EPRODUCTION OF DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS IN WHOLE OF ART IS FORBIDDEN WITHOUT THE WRITTEN PERMISSION OF THE CONSULTING ENGINEER THIS DRAWING SHALL NOT BE USED FOR CONSTRUCTION UNTIL SIGNED BY THE CONSULTIENGINEER AND NOTED AS "FOR CONSTRUCTION"

HE CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR WORKING FROM DRAWINGS NO PECIFICALLY MARKED "FOR CONSTRUCTION" INCLUDING THE COST OF ANY RECTIFICATION DRRECTION OR DAMAGE RESULTING FROM THEIR USE THIS DRAWING IS NOT TO BE SCALED

REFER TO APPROPRIATE APPROVED ARCHITECTURAL, SURVEY, STRUCTURAL, MECHANICAL ELECTRICAL, LANDSCAPE, ETC. CONSULTANT DRAWINGS BEFORE PROCEEDING WITH THE WOR ALL SITE INFORMATION (I.E. BUILDING AND STRUCTURE LOCATIONS, ROAD, PARKIN CURBS, ETC.) TO BE OBTAINED FROM THE ARCHITECT'S APPROVED SITE PLAN

SIONS:		
	DETAILS:	DATE:
	FIRST SUBMISSION	22.02.25

## SANITARY MANHOLE

STORM MANHOLE CATCHBASIN CATCHBASIN MANHOLE HYDRANT VALVE & BOX TOP OF CURB BOTTOM OF CURB EXISTING ELEVATION PROPOSED ELEVATION 123.45 DIRECTION OF SURFACE DRAINAGE OVERLAND FLOW ROUTE FINISHED FLOOR ELEVATION

FINISHED BASEMENT SLAB

ENGINEERING LIMITED.

FBS

THE LOCATION OF ALL UNDERGROUND AND ABOVEGROUND UTILITIES AI STRUCTURES IS NOT NECESSARILY SHOWN ON THE DRAWINGS, AND, WHERE SHOWN, THE ACCURACY OF THE LOCATION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION AND ELEVATION OF ALL SUCH UTILITIES AND STRUCTURES AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

THE CONTRACTOR SHALL BE RESPONSIBLE TO RESTORE ALL DAMAGES AND/OR DISTURBED AREAS DURING THE CONSTRUCTION OF THE WORKS TO ORIGINAL OR BETTER CONDITION TO THE SATISFACTION OF THE CITY OF BARRIE, UNLESS OTHERWISE NOTED.

IF FOR UNFORESEEN REASONS THE CONTRACTOR HAS TO ENCROACH ONTO PRIVATE LANDS TO UNDERTAKE ANY WORKS, THE CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION FROM THE AFFECTED PROPERTY OWNERS PRIOR TO ENTERING UPON THE PRIVATE PROPERTY. FAILURE TO COMPLY WITH THE ABOVE IS AT THE CONTRACTOR'S OWN RISK.

THE CONTRACTOR SHALL REFER TO THE ARCHITECT'S APPROVED SITE PL FOR FINISHED FLOOR AND BASEMENT SLAB ELEVATIONS AND T MECHANICAL DRAWINGS FOR CONFIRMATION OF LOCATION AND ELEVATI OF THE SERVICE CONNECTIONS TO THE BUILDING PRIOR INSTALLATION. ANY DISCREPANCIES SHALL BE REPORTED TO EAGLEBROOKE

THE CONTRACTOR SHALL NOTIFY EAGLEBROOKE ENGINEERING LIMITED AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION IN ORDER TO ARRANGE FOR INSPECTIONS. EAGLEBROOKE ENGINEERING LIMITED CANNOT CERTIFY ANY PORTION OF THE WORKS NOT INSPECTED DURING CONSTRUCTION.

ALL WORK SHALL BE CARRIED OUT IN COMPLIANCE WITH THE CURRENT "OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS".

ALL WORK AND MATERIALS SHALL CONFORM WITH CURRENT PROVINCIAL BUILDIN CODE, MINISTRY OF THE ENVIRONMENT OF ONTARIO, CITY OF BARRIE STANDARDS AND SPECIFICATIONS. LOCAL UTILITY STANDARDS AND ONTARIO PROVINCIAL STANDARDS AND SPECIFICATIONS (OPSD & OPSS) WILL APPLY, WHERE REQUIRED.

ALL TEMPORARY TRAFFIC CONTROL AND SIGNAGE DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT ONTARIO TRAFFIC MANUAL FOR BOOK THE CONTRACTOR SHALL PROVIDE A CCTV CAMERA INSPECTION OF ALL STORM AND SANITARY SEWERS, INCLUDING WRITTEN REPORT, IN A FORMAT ACCEPTABLE TO THE ENGINEER. ALL SEWERS TO BE FLUSHED PRIOR TO

O.THE CONTRACTOR SHALL PROVIDE AS—BUILT SERVICING AND GRADIN INFORMATION UPON COMPLETION OF THE WORKS. THE INFORMATIO PROVIDED SHALL BE OBTAINED BY A SURVEYOR AND IS TO INCLUDE TH LOCATION AND ELEVATION OF ALL INSTALLED STORM, SANITARY AN

WATERMAIN PIPES AND APPURTENANCES TOGETHER WITH AS-BUILT GRADING

ELEVATIONS, TO THE SATISFACTION OF EAGLEBROOKE ENGINEERING

.TOPOGRAPHIC SURVEY INFORMATION OBTAINED FROM R-PE SURVEYING LTD. DRAWING NO. 21-151 DATED 21.11.01.

BENCHMARK No. 00820038066:

ELEVATION: 237.545

2825752 ONTARIO INC. XXX RODINEA ROAD

MAPLE, ON LXX XXX TEL: (905) 738-7858 EMAIL: ralph@malexinc.com

PROPOSED RESIDENTIAL DEVELOPMENT 101-105 EDGEHILL DRIVE

CITY OF BARRIE

ENGINEER: EAGLEBROOK E ENGINEERING E

Eaglebrooke Engineering Limite Consulting Engineers 1228 Gorham Street, Unit 15 Newmarket, ON L3Y 8Z1 Tel: 647.288.5353 Fax: 905.657.581 Email: eaglebrooke@rogers.com

DRAWING TITLE:

SITE SERVICING & GRADING PLAN

NGINEERS STAMP ROFESSION 22.02.25 J. G. MEDEIROS 90221557 Mederyos

DRAWN BY: DESIGNED BY: 21.11.16 CITY NO .:

SPA 2021-XXXX DRAWING NO.: 21190-SSG-1

FIRST SUBMISSION