REACH STREET DEVELOPMENT LANDS

VENETIAN GROUP LTD.
TOWNSHIP OF UXBRIDGE
INDEX AND GENERAL NOTES

GENERAL NOTES:

1. ALL DIMENSIONS ARE IN METRES. PIPE SIZES IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.
2. ALL EXISTING UTILITIES SHOWN ON THE DRAWING ARE FOR REFERENCE PURPOSES ONLY. THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANIES FOR UTILITY STAKEOUT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED TO EXISTING UTILITIES DURING CONSTRUCTION.
3. ALL CONSTRUCTION TO BE CARRIED OUT IN ACCORDANCE WITH THE MOST CURRENT DESIGN CRITERIA, STANDARDS AND SPECIFICATIONS OF THE TOWNSHIP OF UXBRIDGE AND THE REGION OF DURHAM.
4. ALL TRENCHING TO BE IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT. TRENCH SIDES SHOULD BE FLATTENED AS DIRECTED BY THE SOILS CONSULTANT.
5. ALL WELLS (6) TO BE LOCATED AND DECOMMISSIONED IN ACCORDANCE WITH MOEE PROCEDURES.
6. ALL SANITARY AND STORM SEWERS SHALL BE SUBJECT TO VIDEO INSPECTION BY THE CONTRACTOR AND A COPY OF THE INSPECTION REPORT WITH A COPY OF THE DVD SHALL BE FORWARDED TO THE CONSULTANT.
7. ALL LIGHT POLES AND TRANSFORMER LOCATIONS ARE REFERENCE PURPOSE ONLY. REFER TO ELECTRICAL CONSULTANT DRAWINGS FOR DETAIL.
8. LANDSCAPE INFORMATION ARE REFERENCE PURPOSE ONLY. REFER TO LANDSCAPE CONSULTANT DRAWINGS FOR DETAILS.

SANITARY SEWERS:

1. ALL PVC SEWERS PIPE SHALL BE EQUAL TO C.S.A. SPECIFICATIONS 182.2 AND 182.4 OR LATEST AMENDMENT, UNLESS OTHERWISE NOTED FOR CLASS SDR-35. SDR28 FOR 6" AND SMALLER.
2. ALL SANITARY SEWER TO BE FITTED WITH RUBBER GASKET JOINTS.
3. PVC SANITARY SEWER BEDDING TO BE IN ACCORDANCE WITH REGION OF DURHAM STD S-200.010 CLASS 'P' BEDDING UNLESS OTHERWISE SPECIFIED.
4. MANHOLES TO BE CONSTRUCTED IN ACCORDANCE WITH OPSD 701.010 FOR 1200 DIAMETER.
5. ALL SANITARY MANHOLES TO HAVE FRAME AND COVER AS PER OPSD 401.010.
6. ALL PRECAST SANITARY MANHOLES TO BE BENCHED IN ACCORDANCE WITH OPSD 701.021.
7. EXISTING SANITARY SEWER SERVICE CONNECTIONS ON WILLIAM JACKSON DRIVE ARE TO BE ABANDONED AND CAPPED AT PROPERTY LINE.

STORM SEWER:

1. ALL STORM SEWER MAINS IN SIZE UP TO AND INCLUDING 600MM SHALL BE CONSTRUCTED OF REINFORCED CONCRETE PIPE OR POLYVINYL CHLORIDE (PVC) PIPE.
2. ALL STORM SEWER MAINS 675MM OR LARGER SHALL BE CONSTRUCTED OF REINFORCED CONCRETE PIPE. STORM SEWER LEADS FROM CATCHBASINS SHALL BE CONSTRUCTED WITH NON-REINFORCED CONCRETE PIPE OR PVC PIPE.
3. CONCRETE PIPE SHALL CONFORM TO THE REQUIREMENTS OF C.S.A. SPECIFICATION A257-M1982 FOR THE PARTICULAR CLASSES AS SHOWN BELOW:
   - NON-REINFORCED CONCRETE PIPE, CSA STANDARD A257.1-M1982, CLASS 1, 2 AND 3.
   - REINFORCED CONCRETE PIPE, CSA STANDARD A257.2-M1982, STRENGTH CLASSIFICATION 50-D, 65-D, 100-D AND 140-D.
4. POLYVINYL CHLORIDE (PVC) PIPE PRODUCTS SHALL CONFORM TO THE REQUIREMENTS OF CSA B 182.2, B 182.3, B 182.4, ASTM D 3034, F 679, F 794 AND UNI-B-5, B-6 AND B-9. THE PIPE MUST BE MANUFACTURED WITH FACTORY ASSEMBLED SPIGOT GASKET AND INTEGRAL BELL JOINTS.
5. FABRICATION OF PVC PIPE PRODUCTS SHALL CONFORM TO THE REQUIREMENTS OF CSA STANDARD B 182.2, B 182.3 AND B 182.4. PVC PIPE FOR STORM SEWERS SHALL BE WHITE IN COLOUR.
6. ALL SINGLE CATCHBASIN LEADS SHALL BE 250mm DIAMETER AT A MINIMUM OF 1.0% GRADIENT.
7. ALL DOUBLE CATCHBASIN SHALL BE 300mm DIAMETER OF A MINIMUM OF 1.0% GRADIENT.
8. CONCRETE AND PVC STORM SEWER BEDDING TO BE IN ACCORDANCE WITH TOWNSHIP OF UXBRIDGE STANDARD P-400 TYPE 'C' AND P-401 TYPE 'P' RESPECTIVELY.
9. MANHOLES TO BE CONSTRUCTED IN ACCORDANCE WITH OPSD STANDARD 701.010 FOR 1200 DIAMETER, 701.011 FOR 1500 DIAMETER AND 701.012 FOR 1800 DIAMETER.
10. ALL STORM MANHOLES TO HAVE FRAME AND COVER AS PER OPSD 401.010.
11. ALL STORM MANHOLES TO BE BENCHED TO CROWN OF PIPE AS PER OPSD 701.021.
12. ALL SINGLE AND DOUBLE CATCHBASINS SHALL BE PRECAST AS PER OSPD 705.010 AND 705.020, RESPECTIVELY. ALL REAL LOT CATCHBASINS (RLVC) SHALL BE AS PER 705.010 & 705.020. ALL STREET CATCHBASIN FRAM AND COVER SHALL BE AS PER OPSD 400.020.
13. ALL CATCHBASIN MANHOLES TO BE PRECAST CONCRETE AND SHALL BE 1200mm DIAMETER AS PER OPSD 703.010, UNLESS OTHERWISE SPECIFIED.
14. REAR LOT CATCHBASIN LEADS TO BE CONCRETE ENCASED ALONG BUILDING ENVELOPES UNLESS OTHERWISE SPECIFIED.
15. UNDERGROUND STORMWATER STORAGE FACILITIES TO BE INSTALLED UNDER DIRECT SUPERVISION OF GEOTECHNICAL ENGINEER AND IN ACCORDANCE WITH ADS STORMTECH CHAMBERS DETAIL PROVIDED IN DETAILS ADS-1 TO ADS-4.
16. OIL AND GRIT SEPARATORS TO BE INSTALLED IN ACCORDANCE WITH STANDARD DETAIL ADS-5.
17. EXISTING STORM SEWER CONNECTION ON NELKYDD LANE TO INCLUDE THE REMOVAL OF EXISTING BULKHEAD.

WATERMAIN:

1. ALL WATERMAIN SHALL BE POLYVINYL CHLORIDE (PVC) IN ACCORDANCE WITH C.S.A. B137.3 (AWWA C900-75) CLASS 150 (SDR-18) STD S-200.010 TYPE 'P' BEDDING.
2. ALL WATERMAIN BEDDING SHALL BE IN ACCORDANCE WITH REGION OF DURHAM STANDARD S-200.010 CLASS 'P'.
3. TRACER WIRE TO BE ON ALL WATERMAIN IN ACCORDANCE WITH REGIONAL STANDARD S-201.030.
4. ALL WATERMAIN TO HAVE 1.8m MINIMUM COVER BELOW FINISHED CENTRELINE OF ROAD GRADE TO OBVERT.
5. THRUST BLOCKING TO BE IN ACCORDANCE WITH REGION OF DURHAM STANDARD S-200.050 AND S-200.060.
6. ALL HYDRANT AND WATER SYSTEM VALVES SHALL BE EQUIPPED WITH ANTI-TAMPERING DEVICES AND WILL BE PROVIDED AND INSTALLED BY THE REGION OF DURHAM AT THE DEVELOPER'S COST.
7. HYDRANTS SHALL BE INSTALLED AS PER STANDARD S-210.010 AND SHALL INCLUDE A STORZ PUMPER CONNECTION IN ACCORDANCE WITH REGION OF DURHAM SPECIFICATIONS. HYDRANTS INSTALLED UNDER THIS CONTRACT TO BE OBTAINED FROM THE CONTRACTOR'S SUPPLIER AT THE CONTRACTOR'S EXPENSE. ALL HYDRANTS TO BE INSTALLED WITH ANCHOR TEE.
8. MECHANICALLY RESTRAINED JOINTS SHALL BE USED WHERE SPECIFIED ON PVC WATERMAIN AS PER S-200.050.
9. ALL WATERMAIN UP TO AND INCLUDING 300mm DIAMETER SHALL BE CLEANED BY FOAM SWABBING TO REMOVE ALL DEBRIS IN PIPELINE.
10. CATHODIC PROTECTION SHALL BE AS FOLLOWS:
    i) ONE 5.4Kg ZINC ANODE INSTALLED ON ALL FITTING, VALVES, HYDRANT ASSEMBLIES AND SERVICE CONNECTIONS.
    ii) ONE 5.4Kg ZINC ANODE FOR EVERY 1000m OF TRACER WIRE.

CURBS AND SIDEWALKS:

1. CONCRETE STANDARD SIDEWALK ADJACENT TO CURB AND GUTTER TO BE IN ACCORDANCE WITH OPSD 310.020.
2. CONCRETE STANDARD SIDEWALK TO BE IN ACCORDANCE WITH OPSD 310.010.
3. CONCRETE STANDARD FULL CURB AND GUTTER TO BE IN ACCORDANCE WITH OPSD 600.090.
4. CONCRETE STANDARD MOUNTABLE CURB AND GUTTER TO BE IN ACCORDANCE WITH OPSD 600.100.

RESTORATION NOTES:

1. ALL EXISTING ASPHALT TO BE SAWCUT.
2. REMOVE EXISTING ASPHALT AND DISPOSE OFF-SITE.
3. REPLACE SIDEWALK IN SAME CONDITION AS EXISTING OR AS A MINIMUM IN ACCORDANCE WITH OPSD 310.010.
4. REPLACE CURB AND GUTTER IN ACCORDANCE WITH OPSD 310.020.
5. RESTORE BOULEVARD WITH 150MM TOPSOIL AND SOD.
6. RESTORE ASPHALT SHALL CONSTRUCTED WITH LAP JOINTS.
7. RESTORE ASPHALT AREA IN NELKYDD LANE AS FOLLOWS:
   - 40MM HL-3
   - 45MM HL-8
   - 150MM GRANULAR 'A'
   - 350MM GRANULAR 'B'
8. SUBGRADE OF APPROVED FILL MATERIAL SHALL BE COMPACTED TO A DRY DENSITY NOT LESS THAN 95% OF THE STANDARD PROCTOR DENSITY. THE UPPER 300MM PORTION OF SUBGRADE SHALL BE COMPACTED TO A MINIMUM 98% S.P.M.D.D COMPACTION. SOIL DENSITY TESTS HALL BE CONDUCTED TO ENSURE ADEQUATE AND STABILITY OF THE FILL AND TEST SHALL BE SUBMITTED BY THE SOIL ENGINEER TO THE CONSULTING ENGINEER.

PAVEMENT STRUCTURE:

ALL INTERNAL PRIVATE ROAD (COMPACTED THICKNESS) IS:
- 40mm HL-3
- 45mm HL-8
- 150mm GRANULAR 'A'
- 350mm GRANULAR 'B'

LIST OF DRAWINGS

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BENCHMARKS

ELEVATIONS SHOWN ARE RELATED TO GEODETIC DATUM AND ARE DERIVED FROM MTO MONUMENT BENCHMARK NO. 778488 HAVING A PUBLISHED ELEVATION OF 267.903 AS PROVIDED BY ERTL SURVEYORS.

SABOURIN KIMBLE & ASSOCIATES LTD.
CONSULTING ENGINEERS

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