GENERAL NOTES

- ALL WORKS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH CURRENT TOWN OF CALEDON, REGION OF PEEL, AND OPSD STANDARD DRAWINGS AND SPECIFICATIONS. REFERENCE TO STANDARD DRAWINGS SHALL MEAN THE STANDARD DRAWINGS OF THE CORPORATION OF THE TOWN OF CALEDON, UNLESS NOTED OTHERWISE AND THESE SHALL BE THE REVISION IN EFFECT AS OF THE DATE OF THE TOWN'S APPROVAL OF THE CONSTRUCTION DRAWINGS.
- THE LOCATION AND ELEVATION OF ALL EXISTING SERVICES AND UTILITIES ARE TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR AT THEIR EXPENSE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF EXISTING UTILITIES DISTURBED DURING CONSTRUCTION.
- ALL DIMENSIONS SHALL BE CHECKED AND VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE CONSTRUCTION AND HE SHALL REPORT ANY DISCREPANCIES IMMEDIATELY TO THE
- ALL AREAS DISTURBED BY THE CONTRACTOR DURING THE CONSTRUCTION OF WORKS SHOWN HEREON SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER. ALL GRASS AND VEGETATION COVERED AREAS SHALL BE RESTORED BY PLACING 150mm OF APPROVED TOPSOIL AND SOD TO ESTABLISH A GRASS COVER TO THE SATISFACTION OF THE TOWN AND THE REGIONAL MUNICIPALITY OF PEEL.
- THE NOTES ON THIS SHEET APPLY TO ALL WORKS UNDER THIS CONTRACT UNLESS OTHERWISE NOTED ON THE PLAN & PROFILE AND/OR DETAIL DRAWINGS.
- WHERE THE STABILITY, SAFETY OR FUNCTION OF THE EXISTING ROADWAY OR UNDERGROUND FACILITIES MAY BE IMPAIRED DUE TO THE CONTRACTOR'S METHOD OF OPERATIONS. THE CONTRACTOR SHALL PROVIDE SUCH PROTECTION AS MAY BE REQUIRED INCLUDING SHEETING. OR PROPOSED WORKS. CONSTRUCTION FOR SHORING, BRACING AND PROTECTION SCHEMES SHALL CONFORM TO THE SPECIFICATIONS O.P.S.S. 538 AND O.P.S.S. 539.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR ADDITIONAL BEDDING OR ADDITIONAL STRENGTH PIPE IF THE MAXIMUM TRENCH WIDTH AS SPECIFIED BY OPSD IS EXCEEDED.
- ALL SEWERS CONSTRUCTED WITH GRADES 0.50% OR LESS, SHALL BE INSTALLED WITH LASER
- THE MAXIMUM TRENCH WIDTH FOR PIPES UP TO AND INCLUDING 450mm DIAMETER SHALL BE A TOTAL OF THE OUTSIDE DIAMETER OF THE PIPE, 150mm CLEARANCE ON EACH SIDE OF THE PIPE AND AN ALLOWANCE FOR SHEETING AND BRACING AS REQUIRED BY THE OCCUPATIONAL HEALTH AND SAFETY ACT. FOR PIPES 475mm DIAMETER UP TO AND INCLUDING 750mm DIAMETER, THE CLEARANCE SHALL BE 200mm ON EACH SIDE OF THE PIPE. FOR ALL PIPES IN EXCESS OF 750mm, THE CLEARANCE SHALL BE 300mm ON EACH SIDE OF THE PIPE. WHERE SPECIFIED TRENCH WIDTH IS EXCEEDED, THE CONTRACTOR MAY BE REQUIRED TO PROVIDE ADDITIONAL BEDDING, A DIFFERENT TYPE OF BEDDING OR HIGHER STRENGTH PIPE AT HIS OWN EXPENSE AND SHALL ALSO BE RESPONSIBLE FOR EXTRA TEMPORARY ANDOR ERMANENT REPAIRS MADE NECESSARY BY WIDENED TRENCH.
-). ALL CONSTRUCTION SIGNAGE MUST CONFORM TO ONTARIO TRAFFIC MANUAL, BOOK 7.
- ALL CONSTRUCTION WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION
- . AN ASPHALT PRESERVATIVE SEALER SUCH AS RE-CLAMITE (OR OTHER APPROVED EQUIVALENT) SHALL BE APPLIED AFTER THE ONE-YEAR MAINTENANCE PERIOD FOR THE TOP COURSE
- ANY EROSION EXPERIENCED ALONG THE VALLEY LAND SLOPES THROUGHOUT THE
- CONSTRUCTION AND WARRANTY PERIOD OF THIS DEVELOPMENT SHALL BE CORRECTED BY THE DEVELOPER TO THE SATISFACTION OF THE PLANNING, DESIGN AND DEVELOPMENT DEPARTMENT ALL HEADWALLS, WINGWALLS AND OTHER EXPOSED CONCRETE STRUCTURES SHALL BE TREATED WITH A COMMERCIALLY AVAILABLE FORM LINER OR NATURAL STONE FACING. THE DEVELOPERS

CONSULTING ENGINEER SHALL SUBMIT THE PROPOSED TREATMENT TO PLANNING, DESIGN AND

DEVELOPMENT DEPARTMENT FOR APPROVAL PRIOR TO CONSTRUCTION. DAYTON SUPERIOR PART

No. 1502 SVM IS ACCEPTABLE TO THE TOWN OF CALEDON. THE EDGES OF ALL RIP RAP SPLASH PADS AND OUTLET WEIRS SHALL BE FINISHED IN

CURVED NATURALIZED PATTERNS. STRAIGHT LINES WILL NOT BE ACCEPTED

- E LOCATION OF ALL UNDERGROUND AND ABOVEGROUND UTILITIES AND STRUCTURES ARE NOT NECESSARILY SHOWN ON THESE DRAWINGS, AND, WHERE SHOWN, THE ACCURACY OF THE LOCATION OF SUCH UTILITIES AND STRUCTURES ARE NOT GUARANTEED. BEFORE STARTING THE CONTRACTOR SHALL INFORM HIMSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL UTILITY LOCATES PRIOR TO
- ALL AREAS DISTURBED BY THE CONTRACTOR DURING CONSTRUCTION OF THE WORKS SHOWN HEREON SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER. ALL GRASS AND VEGETATION COVERED AREAS SHALL BE RESTORED TO EXISTING CONDITIONS OR BETTER
- 18. ALL PIPE SIZES IN MILLIMETRES AND ALL DISTANCES IN METRES UNLESS OTHERWISE
- STORM SEWER MANHOLES SHALL BE IN ACCORDANCE WITH OSPD 701.010 FOR 1200mm, OPSD 701.011 FOR 1500mm, OPSD 701.012 FOR 1800mm, OPSD 701.013 FOR 2400mm, OPSD 701.014 FOR 3000mm AS NOTED ON DRAWINGS.
- 20. SITE PROPERTY LINES MUST MATCH EXISTING ELEVATIONS.
- 21. A UTILITY CLEARANCE RADIUS OF 1.2 METERS BETWEEN THE PROPOSED DRIVEWAY ENTRANCE
- 2. ALL CONCRETE AND PLASTIC SEWER PIPES SHALL HAVE RUBBER GASKET JOINTS.
- 23. ALL PLASTIC SEWERS SHALL BE CONSTRUCTED WITH BEDDING IN ACCORDANCE WITH OPSD 802.030 OR 802.010 UNLESS OTHERWISE NOTED.
- 4. PLASTIC SEWER PIPES SHALL BE CONSTRUCTED WITH ULTRA RIB OR APPROVED EQUAL UP TO THE MAXIMUM DIAMETER OF 600mm.
- 25. NO PVC PIPE SHALL BE USED ON ARTERIAL AND PARKWAY ROADS.
- LEADS TO BE 300mm UNLESS OTHERWISE NOTED. ALL CATCHBASIN LEADS TO BE EITHER C-14-ES MINIMUM OR PVC TYPE SDR 28.

26. SINGLE CATCH BASIN LEADS TO BE 250mm UNLESS OTHERWISE NOTED. DOUBLE CATCHBASIN

- ALL TRENCH CUTS THROUGH ASPHALT WILL BE REPAIRED WITH A MINIMUM OF $1.0 \mathrm{m}$ BEYOND THE EDGE OF THE FULL CUT DEPTH.
- 28. SEWER MAINTENANCE HOLE FRAME AND COVERS TO BE AS PER O.P.S.D. 401.010 TYPE A T STAMPED "SANITARY", "STORM" ANDOR "FDC" AS APPROPRIATE.
- 9. MAINTENANCE HOLE AND CATCHBASIN ADJUSTMENT UNITS SHALL BE A MAXIMUM OF 300mm HEIGHT AND THREE UNITS.
- 30. GRANULAR BACKFILL AROUND MAINTENANCE HOLES, CATCHBASINS AND VALVE CHAMBERS SHALL BE GRANULAR 'B' COMPACTED BY MECHANICAL MEANS TO A MINIMUM OF 100% STANDARD
- . RISERS ARE REQUIRED ON ALL STORM AND SANITARY CONNECTIONS WHERE COVER ON THE MAIN SEWER EXCEEDS 4.5m AS PER O.P.S.D. 1006.020.
- 2. EROSION AND SEDIMENT CONTROLS TO BE IN PLACE PRIOR TO START OF ANY CONSTRUCTION, AND MUST BE MAINTAINED AT ALL TIMES, IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.
- 3. ROAD OCCUPANCY / ACCESS PERMIT MUST BE OBTAINED 48 HOURS PRIOR TO COMMENCING

ANY WORKS WITHIN THE MUNICIPAL ROAD ALLOWANCE.

- 4. THE APPLICANT, APPLICANT'S REPRESENTATIVE, CONSULTANT, CONTRACTOR AND SUB CONTRACTORS ARE RESPONSIBLE TO ENSURE THAT THEIR DESIGN MATERIALS AND CONSTRUCTION PRACTICES CONFORM TO THE LATEST REGION OF PEEL STANDARDS. SPECIFICATIONS, MATERIALS AND DESIGN CRITERIA, POSTED ON REGION OF PEEL'S WEBSITE (www.peelregion.ca/pw/standards). IN THE ABSENCE OF REGION SPECIFICATIONS, THE ONTARIO PROVINCIAL STANDARD SPECIFICATIONS (OPSS) SHALL
- 35. ALL WORKS SHALL BE COMPLETED IN ACCORDANCE WITH THE "OCCUPATIONAL HEALTH AND SAFETY ACT". THE GENERAL CONTRACTOR SHALL BE DEEMED THE CONSTRUCTOR AS DEFINED IN THE ACT.
- 36. THE CONTRACTOR AT THEIR EXPENSE SHALL VERIFY THE LOCATION, DIMENSION AND ELEVATION OF ALL EXISTING SERVICES AND UTILITIES IN THE FIELD.
- 7. PRIOR TO EXCAVATION OR BORING CONTRACTOR AT THEIR EXPENSE SHALL EXPOSE AND VERIFY THE LOCATION AND ELEVATION OF ALL EXISTING UTILITIES AND SERVICES TO BE CROSSED AND MUST NOTIFY THE DESIGN ENGINEER AND THE AGENCY FIELD INSPECTOR AND/OR PROJECT MANAGER IMMEDIATELY, IN WRITING, OF ANY NO CONFLICTS OR DISCREPANCIES. CONTRACTOR SHALL BE RESPONSIBLE FOR EXPOSING THE EXISTING UTILITIES FAR ENOUGH IN ADVANCE OF CONSTRUCTION TO MAKE NECESSARY DESIGN MODIFICATIONS FOR REVIEW AND APPROVAL, IF REQUIRED, WITHOUT
- 38. THE CONTRACTOR, AT THEIR EXPENSE AND TO THE SATISFACTION OF THE REGION OF PEEL, SHALL BE RESPONSIBLE FOR THE RESTORATION AND THE REPAIR OF THE EXISTING UTILITIES AND ALL AREAS BEYOND THE PLAN OF SUBDIVISION DISTURBED
- 39. THE SUPPORT OF ALL UTILITIES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION
- 40. ALL BACKFILL FOR SEWERS, WATERMAINS AND UTILITIES ON THE ROAD ALLOWANCE MUST BE MECHANICALLY COMPACTED.
- 41. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SPECIFIED

GRADING NOTES

ALL AREAS BEYOND THE LIMIT OF WORK, WHICH ARE DISTURBED DURING CONSTRUCTION, SHALL BE RESTORED TO THE SATISFACTION OF

THE TOWN OF CALEDON AND THE REGION OF PEEL.

SOIL ENGINEERS LTD., DATED JULY 2024.

WITHOUT TOWN OF CALEDON APPROVAL.

- CONTRACTOR TO MATCH EXISTING GRADES AT ALL PROPERTY LINES EXCEPT AS NOTED.
- EXCAVATION, FILL AND COMPACTION TO BE IN ACCORDANCE WITH

RECOMMENDATIONS PROVIDED IN GEOTECHNICAL REPORT PREPARED BY

- DRIVEWAYS ARE TO HAVE A MINIMUM SEPARATION OF 0.6m AT CURBS AND SHALL NOT CROSS THE PROJECTION OF THE PROPERTY LINE.
- THE HOUSE TYPE AND DRIVEWAY LOCATION SHALL NOT BE CHANGED
- DRIVEWAYS SHALL BE GRADED AT A MINIMUM 2% AND A MAXIMUM 8%
- A MINIMUM HORIZONTAL CLEAR SEPARATION OF 1.5m BETWEEN TRANSFORMERS AND DRIVEWAY EDGES AND 1.2m FOR OTHER STREET FURNITURE SHALL BE MAINTAINED.
- DOWNSPOUT LOCATIONS INDICATED ON SITE GRADING PLANS.
- FOOTINGS TO BE FOUNDED IN UNDISTURBED NATIVE SOIL OR, IF LOCATED IN ENGINEERED FILL, FOUNDATIONS SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF, AND CERTIFIED IN THE FIELD BY, A GEOTECHNICAL ENGINEER.
- 0. A MINIMUM 150mm TOPSOIL SHALL BE PROVIDED IN ALL LANDSCAPED
- I. ALL LOT GRADING MUST COMPLY WITH TOWN OF CALEDON STANDARDS.
- 2. ALL OPEN SPACE BLOCKS AND VALLEY LANDS SHALL BE MAINTAINED FREE OF GARBAGE AND CONSTRUCTION DEBRIS BY THE DEVELOPER UNTIL ASSUMPTION OF THE SUBDIVISION BY THE TOWN OF CALEDON

3. SINGLE STAGE CURB AND CUTTER TO OPSD 600.040

- 4. TWO STAGE CURB AND GUTTER TO OPSD 600.070
- SIDEWALKS TO COMPLY TO OPSD 310.010 AND ARE TO BE 1.5m WIDE AND AS PER TOWN STD DWG 102 FOR CONCRETE THICKNESSES
- 6. 100mm SUBDRAIN TO BE AS PER TOWN STD DWG 218
- . ALL NATIVE SUBGRADE TO BE COMPACTED TO 95% SPMDD AND SHALL BE PROOF ROLLED
- NON-COMPRESSIBLE BACKFILL WILL BE USED DURING REBUILDING, ADJUSTING, OR ANY OTHER APPLICABLE CATCHBASIN OR MAINTENANCE
- 9. CURB AND SIDEWALK CONCRETE SHALL BE 32 MPa AT 28 DAYS WITH 7% +/- 1.5% ENTRAINED AIR AND NOT LESS THAN 355 kg/m3 OF CEMENT (PER OPSS 315 AND 353)

ROADS. SIDEWALK. AND WALKWAY NOTES: CATCHBASIN, MAINTENANCE HOLF AND VALVE CHAMBER COVERS SHALL BE SET FLUSH TO BASE COURSE ASPHALT LEVEL AND ADJUSTED TO GRADE PRIOR TO INSTALLING TOP COURSE OF ASPHAL

- AT ALL ENTRANCES TO THE SITE, THE ROAD CURB AND SIDEWALK WILL BE CONTINUOUS THROUGH THE DRIVEWAY . THE DRIVEWAY GRADE WILL BE COMPATIBLE WITH THE EXISTING SIDEWALK AND A CURB DEPRESSION WILL BE PROVIDED FOR AT EACH ENTRANCE. ACCESS CONSTRUCTION AS PER TOWN OF CALEDON STANDARD 237.
- SIDEWALKS SHALL BE AS PER TOWN STD DWG 102 WITH CONCRETE TO CONFORM TO O.P.S.S. 351.
- UNSHRINKABLE FILL TO BE USED FOR CUTS UNDER EXISTING ROADS AND SHALL EXTEND TO SUBGRADE LEVEL UNLESS OTHERWISE NOTED IN THE ROAD OCCUPANCY PERMIT.
- THE SERVICE CONNECTION TRENCH WITHIN THE TRAVELED PORTION OF THE ROAD ALLOWANCE SHALL BE BACKFILLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE ROAD OCCUPANCY ACCESS PERMIT
- THE CONTRACTOR SHALL REINSTATE THE ROAD PORTION OF THE MUNICIPAL RIGHT-OF-WAY TO MATCH THE EXISTING DESIGN.
- THE ROAD SHALL BE KEPT CLEAR OF MUD, DIRT AND DEBRIS AT ALL TIMES AND MUST BE CLEANED AT A MINIMUM OF TWO TIMES PER WEEK, AS REQUIRED OR AT THE DIRECTION OF THE TOWN OF CALEDON.

RESTORATION NOTES

- ALL WORK SHALL BE SUBJECT TO THE CONDITIONS AND TOWN OF CALEDON AND REGION OF PEEL STANDARD SPECIFICATIONS.
- DISTURBED GRASS AREAS SHALL BE RESTORED WITH TOPSOIL AND
- SOD TO ORIGINAL CONDITION OR BETTER.
- ALL AREAS DISTURBED BY THE CONTRACTOR DURING THE CONSTRUCTION OF WORKS SHOWN HEREON SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER. ALL GRASS AND VEGETATION COVERED AREAS SHALL BE RESTORED BY PLACING 300mm OF APPROVED

SATISFACTION OF THE TOWN AND THE REGIONAL MUNICIPALITY OF PEEL

- ALL ASPHALT PAVEMENT AND ALL CONCRETE SIDEWALK AND CURB AND
- ALL DISTURBED ASPHALT PAVEMENT SHALL BE RESTORED WITH THE EXISTING ASPHALT SHALL BE SAW CUT AND REMOVED (FULL DEPTH) A MIN. DISTANCE OF 300mm FROM THE FACE OF THE

TOPSOIL AND SOD TO ESTABLISH A GRASS COVER TO THE

- TRENCH BACKFILL WITHIN THE RIGHT OF WAY SHALL BE AS PER TH REQUIREMENTS UNDER THE ROAD OCCUPANCY PERMIT.
- ALL TRENCH CUTS THROUGH ASPHALT WILL BE REPAIRED WITH A MINIMUM OF 1.0m BEYOND THE EDGE OF THE FULL CUT DEPTH.

- ALL SEWER PIPE UP TO AND INCLUDING 450 mm DIAMETER SHALL BE EQUAL TO CSA SPECIFICATIONS A257.1 CL3 OR LATEST AMENDMENT UNLESS OTHERWISE NOTED.
- TO CSA SPECIFICATION A257.2 OR LATEST AMENDMENT UNLESS
- PIPE MATERIAL TO BE REINFORCED CONCRETE WITH A STRENGTH OF

50 N/m/mm CERTIFIED TO CSA STANDARD A247.2-1982 CLASS

50-D OR PVC CERTIFIED TO CSA STANDARDS 182.2 AND 182.4. TYPE 'B' BEDDING TO BE USED FOR ALL STORM SEWERS AS PER

PRIOR TO SEWER INSTALLATION MAY BE REQUIRED.

- ALL DROP STRUCTURES SHALL CONFORM WITH OPSD 1003.010 AND
- STORM MANHOLE FRAME AND COVERS SHALL BE PER OPSD 401.01. STORM SEWER MANHOLES SHALL BE IN ACCORDANCE WITH OSPD 701.010 FOR 1200mm, OPSD 701.011 FOR 1500mm, OPSD 701.012 FOR 1800mm, OPSD 701.013 FOR 2400mm, OPSD 701.014 FOR 3000mm AS NOTED ON DRAWINGS.
- WITHIN THE TOWN'S RIGHT-OF-WAY, STORM SEWERS AND STORM SEWER CONNECTIONS MUST BE CONCRETE. OR APPROVED EQUAL. WITH TYPE "B" BEDDING THROUGHOUT. THE STRENGTH OF THE CONCRETE PIPE MUST BE AS PER TOWN STANDARD 341 AND AS FOLLOWS; MINIMUM 65-D FOR REINFORCED PIPE AND MINIMUM FOR ES FOR NON-REINFORCED PIPE.
- STORM SEWER PIPES CONNECTING TO THE TOWN'S STORM SEWER SHALL NOT BE SMALLER THAN 200mm.
- . ALL SERVICE CONNECTIONS TO BE MARKED WITH A 50mm x 100mm WOOD STAKE, PROJECTING 1.0m ABOVE THE GROUND, WITH THE TOP 300mm PAINTED ORANGE.
- . SINGLE CATCHBASINS TO BE PRECAST CONCRETE WITH STEEL FRAME AND GRATE CONFORMING TO O.P.S.D. 705.010 AND O.P.S.D. 400.010. DOUBLE CATCHBASINS TO BE PRECAST CONCRETE WITH STEEL FRAME AND GRATE CONFORMING TO O.P.S.D. 705.020 AND O.P.S.D. 400.020.
- 5. CONTRACTOR SHALL ENSURE THAT THE LOW POINT OF CURBS
- CATCHBASIN CONNECTIONS TO THE CURB SUBDRAIN SYSTEM TO BE IN ACCORDANCE WITH O.P.S.D. 216.021.
- . SINGLE CATCHBASIN LEADS TO BE A MINIMUM OF 250mm LAID AT A MINIMUM SLOPE OF 2% UNLESS OTHERWISE NOTED, DOUBLE CATCHBASIN LEADS TO BE 300mm LAID AT A MINIMUM SLOPE OF 2% UNLESS OTHERWISE NOTED, ALL CATCHBASIN LEADS TO BE EITHER C-P.V.C. SDR-35 UNLESS OTHERWISE NOTED.
- ROAD CATCHBASIN LEAD INVERTS TO BE 1.5m BELOW GRATE MAIN LINE SEWER.
- STORM MAINTENANCE HOLE BENCHING AND PIPE OPENING DETAILS TO BE AS PER O.P.S.D. 701.021.

3.5m PLUS 0.3m SLOPES

6.0m PLUS 0.3m SLOPES

7.3m PLUS 0.3mSLOPES

8.5m PLUS 0.3m SLOPES

DRIVEWAYS A. ALL NEW AND RESTORED RESIDENTIAL DRIVEWAYS MUST BE PAVED FROM

CURB TO STREET LINE, OR CURB TO SIDEWALKS WHERE EXISTING.

- DRIVEWAY SLOPES SHALL BE AT A MINIMUM OF 2% AND A MAXIMUM OF 8%. 3. DRIVEWAYS SHOULD BE PERPENDICULAR TO THE CURB WHERE POSSIBLE.
- I. DRIVEWAYS WITH CURVATURES SHALL HAVE A MINIMUM RADIUS OF 7.3 m. 6. WIDTHS OF DEPRESSED CURB FOR DRIVEWAYS SHALL BE AS FOLLOWS:

WHERE POSSIBLE, A 0.6m SEPARATION SHALL BE PROVIDED BETWEEN

8. THE MINIMUM CLEAR DISTANCE BETWEEN THE EDGE OF DRIVEWAYS AND A

9. LOTS WITH WIDTHS LESS THAN 11.0m WILL HAVE COUPLED DRIVEWAYS. LOTS

WITH WIDTHS OF 11.00m TO 11.99m SHALL HAVE EVERY SECOND DRIVEWAY PAIR

10. ALL NEW OR RESTORED RESIDENTIAL DRIVEWAYS WILL HAVE THE FOLLOWING

UNCOUPLED, WHERE DRAINAGE CONDITIONS ALLOW. ALL DRIVEWAYS ON LOTS

DOUBLE DRIVEWAY SHARED DOUBLE DRIVEWAY GUTTER SHALL BE SAW CUT PRIOR TO REMOVAL. FOR SEMI-DETACHED

TRIPLE DRIVEWAY

PAVEMENT STRUCTURE:

OF CONSTRUCTION.

25mm HL3 ASPHAL1

50mm HL8 ASPHALT

UTILITY STRUCTURE SHALL BE 1.2m.

WIDER THAN 12.0m ARE TO BE UNCOUPLED.

TREE PRESERVATION NOTES:

MUST REMAIN UNDISTURBED AT ALL TIMES.

ARBORIST OR LANDSCAPE ARCHITECT.

OR MONETARILY COMPENSATED FOR

150mm OF 19mm DIA. CRUSHER RUN LIMESTONE.

ALL EXISTING TREES WHICH ARE TO REMAIN SHALL BE FULLY

PROTECTED WITH TREE PRESERVATION ZONE (TPZ) ERECTED OR IN

THE CONTRACTOR SHALL TAKE EVERY PRECAUTION NECESSARY TO

EXCAVATION OF ANY KIND IS PERMITTED WITHIN THE TPZ. THE TPZ

THE TPZ SHALL REMAIN IN PLACE UNTIL ALL SITE WORK HAS BEEN

COMPLETED, AND MAY NOT BE REMOVED, RELOCATED OR OTHERWISE

ANY TREESHRUB MARKED FOR PRESERVATION WHICH IS DAMAGED OR

HAS DIED AS A RESULT OF CONTRACTOR NEGLIGENCE SHALL FITHER

BE REPLACED WITH A SPECIMEN OF EQUIVALENT SPECIES AND SIZE

ANY TREES DESIGNATED FOR REMOVAL SHALL HAVE THE STUMPS

COMPLETELY EXCAVATED AND REMOVED FROM THE SITE

ALTERED WITHOUT THE WRITTEN PERMISSION OF A CONSULTING

PREVENT DAMAGE TO TREES OR SHRUBS TO BE RETAINED.

NO CONSTRUCTION ACTIVITY, GRADE CHANGES, TREATMENT OR

ACCORDANCE WITH ARBORIST REPORT PRIOR TO THE COMMENCEMENT

DRIVEWAYS

- GRANULAR AND HOT LAID ASPHALT MATCHING THE EXISTING LAYERS AND DEPTHS USING HL8 FOR THE BASE AND HL3 FOR THE TOP LIFT.

STORM SEWER NOTES:

- ALL SEWER PIPE 525 mm DIAMETER AND LARGER SHALL BE EQUAL
- OPSD 802 030 AND IF UNSUITABLE BEDDING CONDITIONS OCCUR CAREFUL PREPARATION AND STRENGTHENING OF THE TRENCH BASE

- ALL SEWER & WATERMAIN CROSSINGS TO HAVE A MIN. 0.50m CLEARANCE BETWEEN THE INVERT OF THE HIGHER PIPE AND OBVERT OF THE LOWER PIPE

- ALL STORM SERVICE CONNECTIONS TO DWELLINGS SHALL BE 125mm DIAMETER (SINGLE) AND 150mm DIAMETER (DOUBLE) P.V.C. SDR-28 LAID AT A MINIMUM SLOPE OF 2%, AND SHALL BE ONLY WHITE IN

- COINCIDE WITH THE LOCATION OF CATCHBASINS INSTALLED AT ROADWAY SAG AREAS.
- ELEVATION, UNLESS OTHERWISE REQUIRED FOR POSITIVE DRAINAGE TO

WATERMAIN NOTES:

OF WORK

- THE REGION OF PEEL SHALL CONDUCT THE OPERATION OF EXISTING VALVES AND HYDRANTS IF REQUIRED.
- CONTRACTOR MUST USE BATTER BOARD OR ROD-AND-LEVEL METHOD FOR WATERMAIN INSTALLATION.
- ALL WATERMAINS SHALL HAVE 1.70m MINIMUM COVER FOR
- URBAN ROAD DESIGN AND 2.1m MINIMUM COVER FOR RURAL ROAD DESIGN.
- ALL WATERMAINS SHALL MAINTAIN A MINIMUM 1.5m CLEARANCE FROM ALL MANHOLES AND CATCH BASINS, WHERE APPLICABLE.
- FOR WATERMAINS CROSSING OVER OR UNDER SEWERS A MINIMUM 0.5m VERTICAL CLEARANCE SHALL BE PROVIDED.
- FOR WATERMAIN CROSSING A SANITARY SEWER, WATERMAIN JOINTS ARE TO BE OFFSET A MINIMUM OF 2.5m HORIZONTALLY FROM THE CENTERLINE OF THE SANITARY SEWER.
- WATERMAIN BEDDING SHOULD BE AS PER DWG 1-5-1. WATERMAINS TO BE INSTALLED TO GRADES AS SHOWN ON APPROVED PLANS, COPY OF GRADE SHEET MUST BE SUPPLIED
- ANY JOINT DEFLECTION SHALL BE 50% OF MANUFACTURER'S SPECIFICATIONS. PIPE BARREL DEFLECTION IS PROHIBITED.
- O. FIRE HYDRANTS SHALL BE INSTALLED AS PER REGION STD. DWG 1-6-1 OR 1-6-2 WITH FLANGE SET BETWEEN 50mm AND 150mm ABOVE FINISHED GRADE.

TO THE REGION OF PEEL INSPECTOR PRIOR TO COMMENCEMENT

- ALL HYDRANTS SHALL HAVE 1.2m MINIMUM HORIZONTAL CLEARANCE FROM ALL OTHER UTILITIES AND STRUCTURES
- . MECHANICAL RESTRAINERS ARE REQUIRED FOR ALL FITTINGS, VALVES, DEAD ENDS, CAPS AND HYDRANTS ON ALL PVC WATERMAINS; MINIMUM RESTRAINED PIPE LENGTH AS PER REGION'S STANDARD DRAWING 1-5-9.

MEASURED FROM THE NEAREST POINT OF THE STRUCTURE.

- 3. STAINLESS STEEL NUTS AND BOLTS ARE TO BE USED ON ALL METALLIC FITTINGS AND JOINT RESTRAINTS:
- . ALL METALLIC VALVES, FITTINGS, THROUGH WALL METAL PIPING AND JOINT RESTRAINTS TO BE C/W DENSO PASTE. DENSO MASTIC & DENSO TAPE OR APPROVED EQUAL APPLIED TO
- MANUFACTURER'S RECOMMENDATIONS. 5. WHERE PLASTIC PIPE IS USED. INSTALL A 12 GAUGE TWU STRANDED COPPER, LIGHT COLOURED, PLASTIC COATED TRACER WIRE ATTACHED TO THE PIPE WITH APPROVED WIRE SPLICE. THE WIRE SHOULD BE BROUGHT TO THE SURFACE AT EACH SERVICE & VALVE BOX AND HYDRANT VALVES.
- 6. 50mm DIAMETER WATERMAIN SHALL BE TYPE K SOFT COPPER. WATERMAIN INSTALLATION IN CUL-DE-SACS AS PER REGION STD. DWG. 1-7-4.
- A PHYSICAL SEPARATION MUST BE MAINTAINED AT ALL CONNECTION POINTS OF NEW WATERMAIN TO THE EXISTING SYSTEM UNTIL BACTERIOLOGICAL TESTS HAVE PASSED, AS PER STD. DWG 1-7-7 AND 1-7-8.
- . PROVISION FOR FLUSHING OF NEW WATERMAINS PRIOR TO TESTING MUST BE PROVIDED WITH AT LEAST 50mm OUTLET ON WATERMAINS SMALLER THAN 300mm IN DIAMETER, AND MINIMUM 100mm OUTLET ON WATERMAINS 300mm AND LARGER. COPPER WATERMAINS ARE TO HAVE FLUSHING POINTS AT THE END, THE SAME SIZE AS THE WATERMAIN, AS PER STD. DWG. 1-7-7 AND
- . ALL SERVICE CONNECTIONS TO PVC PIPES ARE TO BE MADE USING APPROVED WIDE BAND SERVICE SADDLE. DIRECT TAPPING IS NOT ALLOWED.
-). ALL WATER SERVICES SHALL BE MINIMUM 25mm DIA NOMINAL COPPER PIPE SIZE OR 32mm DIA POLYETHYLENE PIPE. IN GENERAL, NON METALLIC SERVICES SHALL BE ONE SIZE LARGER THAN THE NOMINAL COPPER PIPE SIZE AS PER LATEST APPROVED REGIONAL PRODUCT LIST AND SIZES C/W TRAC WIRE. NEW WATER SERVICES SHALL BE PRESSURE TESTED TOGETHER WITH THE WATER MAIN. FOLLOWING TESTING THE CONTRACTOR SHALL OPERATE EACH WATER SERVICE TO VERIFY FULL FLOW AND PRESSURE AT THE CURB STOP TO THE
- SWABBED, PRESSURE TESTED, FLUSHED AND DISINFECTED TO THE SATISFACTION OF THE REGION OF PEEL.

SATISFACTION OF THE REGION OF PEEL. CONTRACTOR TO MAKE

CONNECTIONS TO HOMES AFTER THE WATERMAIN HAS BEEN

- I. THE MINIMUM LATERAL DISTANCE BETWEEN WATER SERVICES AND OTHER UTILITIES SHALL BE 1.2m. 22. ALL RESIDENTIAL WATER SERVICE BOXES/CURB STOPS SHALL BE INSTALLED WITHIN SODDED AREAS WITH MINIMUM DISTANCE OF 1.0 METRES FROM THE EDGE OF THE DRIVEWAY, BE FLUSH WITH
- GRADE AND ACCESSIBLE AT ALL TIME. 23. VALVE AND BOXES SHALL BE CAST IRON SLIDING TYPE, COMPLETED WITH VALVE GUIDE PLATES AND INSTALLED AS PER REGION STD. 1-3-8. MAINLINE VALVES TO BE RESTRAINED AS PER REGION STD. 1-3-3A. VALVES SHALL OPEN TO THE LEFT
- 24. ALL WATER SERVICES BOXES SHOULD BE "LEAD FREE" AS PER

(COUNTER-CLOCKWISE)

- REGION'S MATERIAL SPECIFICATIONS. . THE REGION WILL COMPLETE THE NECESSARY WATER TESTING (PRESSURE TEST, FLUSHING, CHLORINATION AND SAMPLING). CONTRACTOR MAY PROCEED WITH HIS OWN PRESSURE TEST AND
- 26. ALL METALLIC WATER PIPES INCLUDING 'K' COPPER WATER SERVICES, INSTALLED OR REPAIRED, SHALL HAVE ZINC ANODE AS PER REGION OF PEEL STANDARD 1-7-1, OPSS422 AND OPSD 1109.011 AND TO CONFORM TO ASTM B-418 TYPE.
- 27. ALL WATERMAIN PIPE DELIVERED ON SITE SHALL HAVE MANUFACTURER'S PLUGS AND STORED SO THAT NO DEBRIS ENTERS THE PIPE. NO WATERMAIN IS TO BE INSTALLED UNTIL NIGHT PLUG IS ON SITE. NIGHT PLUG TO BE USED EVERY TIME WORK IS STOPPED.
- 28. ALL TEMPORARY WATERMAINS AND APPURTENANCES SHALL BE TESTED TO THE SAME STANDARDS AS NEWLY INSTALLED WATERMAINS

WATERMAIN IN FILL AREA NOTES:

FLUSHING PRIOR TO REGION'S TESTING.

NO WATERMAIN TO BE LAID ON FILL UNTIL THE FIELD DENSITY TEST REPORTS HAVE BEEN SUBMITTED TO AND APPROVED BY

THE REGION OF PEEL OR THE CONSULTING ENGINEER.

PIPE JOINTS DEFLECTIONS ARE NOT ALLOWED IN FILL AREA.

JOINS SHALL BE MECHANICALLY RESTRAINED THE WHOLE

ARE TO BE MECHANICALLY RESTRAINED WITH TIE RODS. IN EXISTING MUNICIPAL RIGHT-OF-WAY OR EASEMENT, FILL TO BE PLACED TO 600mm MINIMUM ABOVE THE OBVERT OF THE WATERMAIN AND 300mm EITHER SIDE COMPACTED TO MINIMUM 100% STANDARD PROCTOR DENSITY IN 300mm-LIFTS; AND THEREAFTER, FOR EVERY 300mm LIFT ALONG THE CENTERLINE. AND 1.5m TO EITHER SIDE, OF WATERMAIN AT MAXIMUM INTERVAL OF 30.0m TEST RESULTS MUST BE SUBMITTED TO AND

APPROVED BY THE CONSULTANT OR AGENCY.

ALL HYDRANTS, TEE, BRANCH VALVES AND HORIZONTAL BENDS

SUBMISSION

DRAWING

NOT TO BE USED FOR CONSTRUCTION

SANITARY SEWER NOTES:

CHECKED PRIOR TO BACKFILL.

DWG 2-5-26 AND 2-5-27.

SPECIFICATIONS.

- ALL SANITARY SEWERS BEDDING AS PER REGION STD. 2-3-1 MAINLINE SANITARY SEWER PIPE SIZE SHALL BE MINIMUM 250mm IN DIAMETER INSTALLED AT THE APPROVED DESIGN GRADE. PIPE CLASS AND APPURTENANCE AS PER REGION'S
- ALL SEWERS CONSTRUCTED WITH GRADE 0.5% OR LESS SHALL BE APPROVED BY THE ENGINEER AND THE AGENCY PROJECT MANAGER OR DESIGNATE AND BE INSTALLED WITH LASER AND
- MINIMUM SANITARY SEWER PIPE SLOPE FOR THE LAST LEG SHALL BE 1% AND DESIRABLE SLOPE OF 2%
- ALL MANHOLES SHALL BE AS PER REGION STD. DWG, 2-5-2, 2-5-3, 2-5-4, 2-5-5, AND 2-5-6 AND BENCHING AS PER
- FRAME AND COVERS SHALL BE PER REGION STD. DWG 2-5-13, 2-6-1 TO 2-6-8.
- MANHOLE STEPS OR LADDERS SHALL BE AS PER REGION STD. DWG 2-6-9 TO 2-6-11.
- MANHOLES DEEPER THAN 5.0m MUST BE EQUIPPED WITH SAFETY PLATFORMS, AS PER STD 2-6-13 AND 2-6-14.

MANHOLE DROP STRUCTURES SHALL BE AS PER REGION STD.

- SANITARY SERVICE LATERALS SHALL BE MINIMUM 125mm
- WHEN FACING THE LOT FROM THE STREET. B. CONNECTIONS TO SEWERS SHALL BE MADE WITH MANUFACTURED TEES OR WYES WHERE APPLICABLE AND SHALL BE COLOUR CODED AS NON-WHITE, AS

A. SANITARY SERVICE SHALL BE LOWER THAN AND TO THE

RIGHT OF STORM SERVICE AT THE PROPERTY LINE

TRAFFIC SIGNS AND SIGNALS ON REGIONAL ROADS NOTES:

PER STD. DWG 2-4-1 TO 2-4-7.

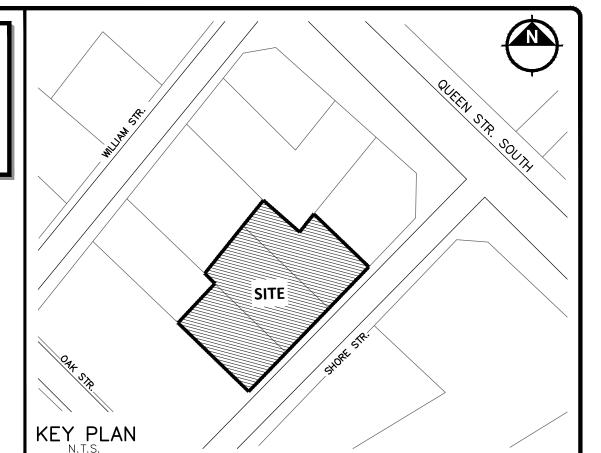
ALL REQUIRED TRAFFIC SIGNS, WHETHER REGULATORY, WARNING, TEMPORARY OR GUIDE/DIRECTION IN NATURE SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARDS SPECIFICATIONS AND LEGISLATION CONTAINED IN THE OTM MANUALS, THE HTA, AND REGION OF PEEL TRAFFIC BY-LAW

ELECTRICAL WORKS SHALL CONFORM THE ONTARIO PROVINCIAL

STANDARD DRAWINGS AND SPECIFICATIONS. TRAFFIC CONTROLLERS MUST BE INSTALLED AS PER APPROVED LOCATIONS EQUIPMENT MUST NOT ENCROACH ON PRIVATE PROPERTY WITHOUT PERMISSION TO ENTER, EASEMENT,

PERMANENT OR TEMPORARY UNDERTAKINGS.

STANDARD (O.P.S) DRAWINGS AND THE REGION OF PEEL



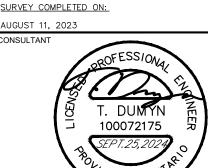
TOWN OF CALEDON **PLANNING** RECEIVED October 8, 2024

SUBMISSION HISTORY DATE ISSUED FOR 24/09/24 ISSUED FOR FIRST SUBMISSION

DESCRIPTION BY DATE

REVISIONS

BENCHMARK NOTE: ELEVATIONS SHOWN ARE RELATED TO GEODETIC DATUM AND ARE DERIVED FROM TOWN OF CALEDON BENCH MARK NO. 758057 HAVING A PUBLISHED ELEVATION OF 251.929m. SURVEY COMPLETED BY: GUIDO PAPA SURVEYING 9135 KEELE STREET, UNIT B7 VAUGHAN, ONTARIO L4K OJ4



GUIDO PAPA REF. NO. 23-18-550-00

APPROVED AS TO FORM IN RELIANCE UPON THE PROFESSIONAL SKILL AND ABILITY OF URBANWORKS ENGINEERING CORP. AS TO DESIGN AND SPECIFICATION.

ENGINEERING CORPORATION

1945 Dundas Street E., Unit 200, Mississauga, ON, L4X 2T8

IRECTOR OF DEVELOPMENT ENGINEERING

MULTI-UNIT RESIDENTIAL DEVELOPMENT SHORE STREET URBANIZATION

15,21,27 SHORE STREET, CALEDON



TOWN FILE: PRE-2023-0116

SCALE:

TOWN OF CALEDON

GENERAL NOTES

PRE-2023-0274 24-0002CA REGION FILE: DATE: **SEP 24, 2024**

DESIGNED BY: DV DRAWN BY: DV CHECKED BY: TD

PROJECT No.

GN-01