

LEGEND

- PROPOSED CATCHBASIN
- PROPOSED AREA DRAIN
- PROPOSED STORM SEWER
- PROPOSED SANITARY SEWER
- PROPOSED WATER SERVICE
- PROPOSED WATER METER
- PROPOSED BACKWATER VALVE
- EXISTING STORM MANHOLE
- EXISTING SANITARY MANHOLE
- EXISTING FIRE HYDRANT AND VALVE
- EXISTING WATERMAIN
- EXISTING STORM SEWER
- EXISTING SANITARY SEWER
- PROPERTY LINE
- PROPOSED FINISHED ELEVATION
- SUBDIVISION GRADE
- EXISTING GRADE
- PROPOSED DRAINAGE DIRECTION
- PROPOSED TREE (REFER TO LANDSCAPE)

NO.	YY/MM/DD BY/DRAWN	REVISIONS
5	22/04/19 JN	FOR SITE PLAN APPLICATION SUBMISSION
4	21/12/22 JN	RE-ISSUED FOR SITE PLAN APPLICATION
3	21/09/10 JN	RE-ISSUED FOR SITE PLAN APPLICATION
2	20/02/18 JN	ISSUED FOR BUILDING PERMIT APPLICATION
1	19/11/28 SP/JN	ISSUED FOR SITE PLAN APPLICATION

SURVEY CREDIT
 TOPOGRAPHIC INFORMATION SHOWN HEREON IS OBTAINED FROM SURVEY PLAN 17-30-127-01-DATED AUGUST 23, 2017 PREPARED BY J.D. BARNES LIMITED.

BENCHMARK
 ELEVATIONS SHOWN HEREON ARE GEODETIC AND WERE DERIVED FROM MTO BENCHMARKS N'00819818114 AND N'00819818115 HAVING ELEVATIONS OF 188.594m AND 185.692m RESPECTIVELY.

GENERAL NOTES

- CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS OF THE REGIONAL MUNICIPALITY OF HALTON (INCLUDING REGION OF HALTON'S CONTRACTOR INFORMATION PACKAGES), TOWN OF OAKVILLE AND THE ONTARIO BUILDING CODE (PART 7), ONTARIO PROVINCIAL STANDARD SPECIFICATIONS AND DRAWINGS (OPSS & OPSP) SHALL BE USED IN ABSENCE OF LOCAL STANDARDS.
- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL, MECHANICAL AND LANDSCAPE DRAWINGS.
- ALL INFORMATION SHOWN REGARDING THE LOCATION AND SIZE OF EXISTING UTILITIES AND/OR SERVICES HAS NOT BEEN VERIFIED. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING LOCATION OF UTILITIES PRIOR TO CONSTRUCTION AND PROTECTING AND MAINTAINING DURING CONSTRUCTION.
- THE CONTRACTOR SHALL CHECK AND VERIFY ALL GIVEN GRADES AND ELEVATIONS PRIOR TO CONSTRUCTION AND REPORT ALL DISCREPANCIES TO THE ENGINEER.
- ALL GRADING CHANGES SHALL BE APPROVED BY THE ENGINEER AND TOWN OF OAKVILLE PRIOR TO IMPLEMENTATION.
- THE CONTRACTOR SHALL CLEAN ALL MUD TRACKED ON TO ADJACENT ROADWAYS.

SERVICING NOTES

- ALL UTILITIES SHALL BE BACKFILLED WITH GRANULAR BACKFILL COMPACTED TO 98% S.F.M.D. NATIVE BACKFILL MAY BE USED WITH THE PERMISSION OF THE GEOTECHNICAL CONSULTANT. BEDDING AND COVER MATERIAL SHALL BE PER THE GEOTECHNICAL CONSULTANT'S RECOMMENDATIONS.
- BACKFILLING AND RESTORATION WITHIN THE PUBLIC ROW SHALL BE IN ACCORDANCE WITH THE TOWN OF OAKVILLE ROAD CUT PERMIT AND TO THE SATISFACTION OF THE ENGINEERING & CONSTRUCTION DEPARTMENT.
- SURROUND ALL MANHOLES WITH A MINIMUM OF 1.5m COMPACTED GRANULAR 'C' BACKFILL.

SANITARY SEWERS

- ALL SANITARY SEWERS SHALL BE PVC SDR28, BEDDING PER OPSP 802.010*.
- SANITARY MANHOLE SHALL BE AS PER OPSP 701.010* c/w COVER PER OPSP 401.010*.
- ASTERISK (*) INDICATES O.P.S.D. CAN BE USED MODIFIED BY REGION OF HALTON.
- DROP MH PER OPSP 1003.020
- ALL SANITARY MH'S TO BE BENCHMARKED THROUGHOUT TO THE CROWN OF ALL PIPES ON A VERTICAL PROJECTION FROM SPRING LINE.

STORM SEWERS

- ALL STORM SEWERS 600 mm AND SMALLER SHALL BE PVC SDR35 CSA B182.2 WITH BEDDING PER OPSP 802.010 UNLESS OTHERWISE NOTED.
- CATCHBASIN SHALL BE PER OPSP 705.010 c/w GRATE PER OPSP 400.100.
- ALL CB AND CBMH IN PAVED AREAS SHALL BE INSTALLED WITH 3.0m-100mm PERFORATED PIPE c/w FILTER SOCK EXTENDING OUT FROM THE CB AND LOCATED BELOW THE SUBGRADE SURROUNDED BY 50mm GRANULAR 'A'.
- ALL CB LEADS SHALL BE 250mm @ AT 1.0% (MIN.) UNLESS OTHERWISE NOTED.
- CATCHBASINS IN LANDSCAPE AREAS SHALL BE SUMPLESS AND WITH 'BEEHIVE' TOP.
- ALL STORM MH'S SHALL BE 1200mm @ PER OPSP 701.010 c/w COVER PER OPSP 401.010, UNLESS OTHERWISE NOTED.
- ALL STORM MH'S SHALL BE BENCHMARKED THROUGHOUT TO THE SPRING LINE OF ALL PIPES.
- ALL AREA DRAIN (AD) LEADS SHALL BE 150mm @ AT 1.0% UNLESS OTHERWISE NOTED.

WATERMAIN NOTES

- 100mm AND LARGER SERVICES SHALL BE PVC, C-900, CLASS 150, SDR18 c/w MECHANICAL RESTRAINTS & TRACER WIRE PER REGION OF HALTON REQUIREMENTS.
- BEDDING ON WATER SERVICE SHALL BE PER OPSP 802.010*.
- VALVE AND BOX FOR 100mm TO 300mm WATER SERVICE PER REGION OF HALTON STDS.
- COVER SHALL BE 1.7m MIN. UNLESS OTHERWISE NOTED.
- CONNECTION TO EXISTING WATERMAIN SHALL BE PER REGION OF HALTON STD RH 409.01.
- WATER SYSTEM SHALL BE PRESSURE TESTED TO 150 PSI FOR 3 HRS AND WITNESSED BY REGION OF HALTON.
- HYDRANTS SHALL BE MANUFACTURED IN ACCORDANCE WITH AWWA C502 AND SHALL HAVE STEAMER PORTS AS PER REGION STANDARD SPECIFICATIONS (SEE NOTE 11). ALL HYDRANTS SHALL BE INSTALLED AS PER OPSP 1105.010*. IF HYDRANT BARREL DEPTH EXCEEDS 1.7m A HYDRANT THAT CAN BE RAISED FROM THE BOTTOM WITHOUT INCREASING ROD LENGTH IS TO BE USED.
- INDICATES O.P.S.D. CAN BE USED AS MODIFIED BY REGION OF HALTON.
- MINIMUM LATERAL SEPARATION FROM OTHER UTILITIES IS 2.5m
- STORZ PUMPER CONNECTION FOR HYDRANTS AS FOLLOWS:
 TWO (2) 63.5mm (2 1/2") WITH CSA STANDARD THREAD, 63.5mm I.D., 5 THREADS PER 25mm, 31.75mm SQUARE OPERATING NUT; AND STORZ CAP PAINTED GLOSS BLACK.
- WATER SERVICES/MAINS SHALL BE TESTED & DISINFECTED AS PER ANSI/AWWA C651-99 AND REGION OF HALTON REQUIREMENTS.

GRADING NOTES

- SEDIMENT CONTROL MEASURES INCLUDING SILT FENCE AND MUD PAD ETC. SHALL BE INSTALLED PRIOR TO START OF CONSTRUCTION, CHECKED AND REPAIRED ON A REGULAR BASIS, AND LEFT IN PLACE UNTIL PAVING AND LANDSCAPING IS COMPLETED. SEDIMENT CONTROL WHEN REMOVED SHALL BE DISPOSED OFF-SITE.
- ALL TOPSOIL SHALL BE STRIPPED PRIOR TO GRADING.
- ALL FILL PLACEMENT SHALL BE DONE IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.
- RETAINING WALLS WITH A HEIGHT GREATER THAN 0.6m ARE TO BE DESIGNED AND STAMPED BY A PROFESSIONAL ENGINEER.
- ALL DISTURBED AREAS TO BE RESTORED WITH 200mm TOPSOIL AND SOD.
- ALL DISTURBED AREAS WITH IN PUBLIC R.O.W. TO BE REINSTATED TO THE SATISFACTION OF THE ENGINEERING & CONSTRUCTION DEPARTMENT. EXISTING BLVD. AREAS TO BE REINSTATED WITH 200mm TOPSOIL AND SOD.
- REFER TO GEOTECHNICAL REPORT FOR PAVEMENT STRUCTURE

PAVEMENT STRUCTURE (ABOVE PARKING GARAGE ROOF)

- HL-3 40mm
- HL-8 40mm
- GRANULAR 'A' 75mm (MINIMUM)

PAVEMENT STRUCTURE (ON GRADE AND PRIVATE DRIVEWAYS)

- HL-3 40mm
- HL-8 60mm
- 19mm CRL (OR GRANULAR 'A')
- 150mm GRANULAR 'B' (TYPE 1) 300mm

NOTE: ALL WATER AND SANITARY MAIN TAPS ARE TO BE PERFORMED BY REGION OF HALTON FORCES ONLY

NOTE: PROPOSED DUNDAS STREET SEWER SYSTEM BY REGION OF HALTON IS SHOWN AS EXISTING. REFER TO DWG. NO. 15 PROJECT TP-114108, CONTRACT R-2259B, BY AMEC FOSTER WHEELER FOR DETAIL

NOTE: ANY CONNECTION TO AN EXISTING SERVICE PREVIOUSLY INSTALLED, SHALL BE SWABBED, FLUSHED, AND SAMPLED BY THE REGION AT THE SOLE EXPENSE OF THE APPLICANT. REGION BY-LAW NO. 131-10, SECTION II, C.14 (4)

NOTE: LOCATION OF EXISTING UTILITIES AND SERVICES IS APPROXIMATE.

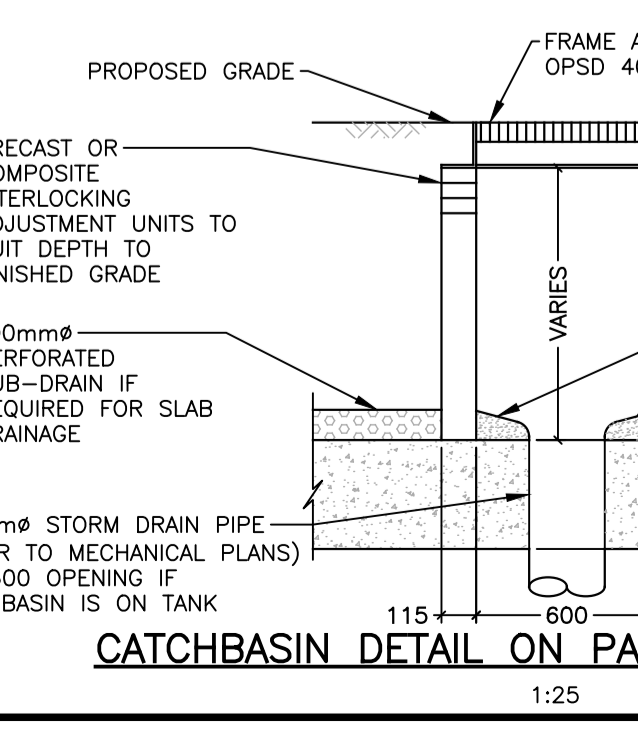
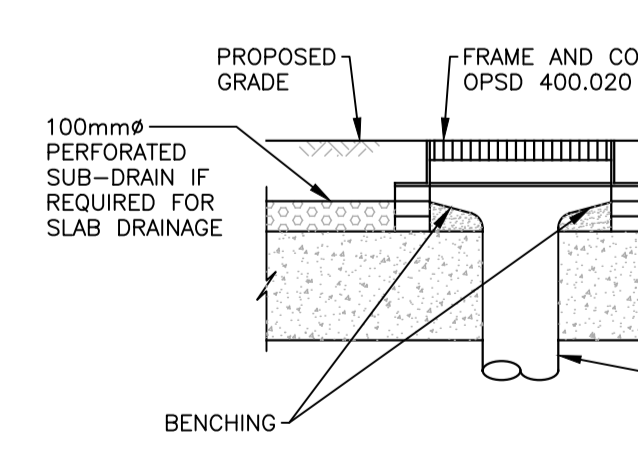
NOTE: COMPLETE RESTORATION OF ALL DISTURBED AREAS (INCLUDING PAVEMENT STRUCTURE) WITHIN R.O.W. REQUIRED TO TOWN OF OAKVILLE STANDARDS AND THE SATISFACTION OF ENGINEERING AND CONSTRUCTION

NOTE: ENHANCED BOULEVARD WORKS ARE THE RESPONSIBILITY OF THE OWNER

NOTE: RETAINING WALL EQUIPPED WITH PEDESTRIAN FALL GUARD WHERE HEIGHT EXCEEDS 0.6m. REFER TO LANDSCAPE PLAN FOR DETAIL

NOTE: SEE LOWER LEVEL TOWNS PATIO DETAIL (THIS DWG) FOR GRADING

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REGIONAL APPROVAL:
 REGION DESIGN OF WATER &/OR WASTEWATER SERVICES APPROVED SUBJECT TO DETAIL CONSTRUCTION CONFORMING TO HALTON REGIONAL STANDARDS & SPECIFICATIONS & LOCATION APPROVAL FROM AREA MUNICIPALITY.

SIGNED: _____ DATED: _____
 INFRASTRUCTURE PLANNING & POLICY

The Applicant should be aware that the approval of the water system on private property is the responsibility of the Local Municipality. Regardless, the Applicant must ensure that the Region of Halton's standards and specifications are met. (The Water and Wastewater Linear Design Manual may be obtained from the Data Management Group at 905-825-6032) Furthermore, all water quality tests must be completed to Halton Region's satisfaction, before the water supply can be turned on.

DESIGNED BY:

APPROVED BY: _____

TRAFALGAR ENGINEERING
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PROJECT TITLE: **DISTRIKT TRAILSIDE DEVELOPMENTS MIXED-USE CONDOMINIUM DEVELOPMENT**
 SP 1319.002/01

LOCATION: **DISTRIKT TRAILSIDE EAST 395 DUNDAS STREET WEST AND 3025 TRAILSIDE DRIVE OAKVILLE**

DRAWING TITLE: **GRADING AND SERVICING PLAN**

SCALE	1:300	DESIGN BY	JN/SP	PROJECT No.	1645
DRAWN BY	JN	CHECKED BY	SP	PLAN No.	GS1
DATE	2019/02/22	SHEET	1 OF 1		

FILENAME: P:\1645_395_Dundas_District\Drawings\DWG\1645GS.dwg
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