GENERAL NOTES:

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE APPROVED ARCHITECTURAL AND LANDSCAPE PLANS.
2. THE LOCATION OF ALL UNDERGROUND AND ABOVEGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON ENGINEERING DRAWINGS, AND WHERE SHOWN THE ACCURACY OF THE LOCATION AND ELEVATION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY EXACT LOCATION AND ELEVATION OF SUCH UTILITIES AND STRUCTURES AND SHALL ASSUME ALL LIABILITIES OF DAMAGE.
3. ALL DIMENSIONS SHALL BE CHECKED AND VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION AND ANY DISCREPANCIES SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER. DETAILS ARE NOT TO BE SCALED FROM THE DRAWINGS.
4. THE WORK AREA SHALL BE ISOLATED FROM PUBLIC ACCESS AT ALL TIMES. OPEN EXCAVATIONS SHALL BE BACKFILLED OR PLATED AT THE END OF EACH WORK DAY. ALL CONSTRUCTION WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS.
5. STANDARD DRAWINGS OF THE CITY OF MISSISSAUGA AND REGIONAL MUNICIPALITY OF PEEL CONSTITUTE PART OF THIS CONTRACT, ALONG WITH PROVISIONS OF THE ONTARIO BUILDING CODE.
6. REFER TO ARCHITECTURAL PLANS FOR SURFACE TREATMENT SPECIFICATIONS INTERNAL TO SITE.

REGION OF PEEL STANDARD NOTES:

1. ALL MATERIALS AND CONSTRUCTION METHODS SHALL CORRESPOND TO CURRENT PEEL PUBLIC WORKS STANDARDS AND SPECIFICATIONS.
2. WATERMAIN AND/OR WATER SERVICE MATERIALS 100mm AND LARGER MUST BE DR.18 P.V.C. PIPE, MANUFACTURED TO A.W.W.A. SPEC. C900-16, COMPLETE WITH TRACER WIRE. SIZES 50mm AND SMALLER MUST BE TYPE 'K' SOFT COPPER PER A.S.T.M. B88-49 SPECIFICATION.
3. WATERMAINS AND/OR WATER SERVICES ARE TO HAVE A MINIMUM COVER OF 1.7m WITH A MINIMUM HORIZONTAL SPACING OF 1.2m FROM THEMSELVES AND ALL OTHER UTILITIES.
4. PROVISIONS FOR FLUSHING WATER LINE PRIOR TO TESTING MUST BE PROVIDED WITH AT LEAST A 50mm OUTLET ON 100mm AND LARGER WATERMAINS. COPPER LINES TO HAVE FLUSHING POINTS THE SAME SIZE AS THE LINE, AND MUST ALSO BE HOSED OR PIPED TO ALLOW WATER TO DRAIN TO A SUITABLE DISCHARGE AREA. FIRE LINES TO BE PROVIDED WITH A MINIMUM 100mm FLUSHING OUTLET ON A HYDRANT.
5. ALL CURB STOPS TO BE 3.0m FROM THE FACE OF THE BUILDING UNLESS OTHERWISE NOTED.
6. HYDRANT AND VALVE SHALL BE ACCORDING TO REGION STANDARD 1-6-1, WITH PUMPER NOZZLE.
7. WATERMAINS TO BE INSTALLED TO GRADES AS SHOWN ON THE APPROVED SITE PLAN. COPY OF THE GRADE SHEET MUST BE SUPPLIED TO INSPECTOR PRIOR TO COMMENCEMENT OF WORK, WHERE REQUESTED BY INSPECTOR.
8. WATERMAINS TO HAVE A MINIMUM VERTICAL CLEARANCE OF 0.30m OVER, OR 0.50m UNDER SEWERS AND ALL OTHER UTILITIES AT CROSSINGS.
9. ALL PROPOSED WATER PIPING TO BE ISOLATED FROM EXISTING LINES IN ORDER TO ALLOW INDEPENDENT PRESSURE TESTING AND CHLORINATION.
10. ALL LIVE-TAPPING AND OPERATION OF REGION WATER VALVES SHALL BE ARRANGED THROUGH THE REGIONAL INSPECTOR ASSIGNED, OR BY CONTACTING THE OPERATIONS AND MAINTENANCE DIVISION.
11. LOCATION OF ALL EXISTING UTILITIES IN THE FIELD TO BE ESTABLISHED BY THE CONTRACTOR.
12. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR UTILITY LOCATES, EXPOSING, SUPPORTING AND PROTECTING ALL UNDERGROUND AND OVERHEAD UTILITIES AND STRUCTURES IN THE WORK AREA, WHETHER OR NOT SHOWN ON THE PLANS, AND FOR ALL REPAIRS RESULTING FROM DAMAGE.
13. THE CONTRACTOR SHALL PROVIDE 72 HOURS WRITTEN NOTICE TO UTILITY PROVIDERS PRIOR TO CROSSING UTILITIES, FOR THE PURPOSE OF INSPECTION BY THE RELEVANT UTILITY AGENCY. INSPECTION SHALL BE FOR THE DURATION OF CONSTRUCTION, WITH THE CONTRACTOR RESPONSIBLE FOR ALL COSTS ARISING FROM SUCH INSPECTION.
14. ALL PROPOSED WATER PIPING MUST BE ISOLATED THROUGH A TEMPORARY CONNECTION THAT SHALL INCLUDE AN APPROPRIATE CROSS-CONNECTION CONTROL DEVICE, CONSISTENT WITH THE DEGREE OF HAZARD, FOR BACKFLOW PREVENTION OF THE ACTIVE DISTRIBUTION SYSTEM, CONFORMING TO REGION OF PEEL STANDARD 1-7-1 OR 1-7-8.

WATER SUPPLY SYSTEMS:

1. MINIMUM DEPTH OF COVER OVER THE WATERMAIN SHALL BE 1.70m.
2. WATERMAIN BEDDING AND BACKFILL SHALL BE AS PER O.P.S.D. 802.010 CLASS 'B' WITH 20mm CRUSHER-RUN LIMESTONE OR EQUIVALENT.
3. ALL PLUGS, CAPS, TEES AND BENDS SHALL HAVE THRUST BLOCKS OR BE MECHANICALLY RESTRAINED. THRUST BLOCKS TO CONFORM TO REGION OF PEEL STANDARD DRAWINGS 1-5-4 TO 1-5-7. VALVES SHALL BE MECHANICALLY RESTRAINED AS PER PEEL REGION STANDARD DRAWING 1-3-3A.
4. WATERMAIN PIPE TO BE PROVIDED WITH TRACER WIRE (12-GAUGE STRANDED COPPER, PLASTIC COATED), WHICH SHALL BE BROUGHT TO THE SURFACE AT EACH VALVE BOX/CHAMBER AND HYDRANT.
5. WATERMAIN TESTING REQUIREMENTS (SWABBING, LEAKAGE/PRESSURE TESTING, DISINFECTION) SHALL BE AS PER REGION OF PEEL STANDARDS, AT THE SOLE EXPENSE OF THE CONTRACTOR.

SANITARY SEWERS:

1. SANITARY SEWER PIPES 300mm DIA. TO 450mm DIA. SHALL BE PVC SDR 35 CONFORMING TO C.S.A. SPECIFICATION B182.2 – M1990 AND B182.4 – M1992 OR LATEST REVISION THEREOF, UNLESS OTHERWISE NOTED. SANITARY SEWER PIPES LARGER THAN 450mm DIA. SHALL BE REINFORCED CONCRETE CONFORMING TO C.S.A. SPECIFICATION A257.2 – M1982 OR LATEST REVISION THEREOF. PIPE JOINTS SHALL BE BY MEANS OF APPROVED RUBBER GASKETS CONFORMING TO C.S.A. SPECIFICATION A257.2 – M1982 OR LATEST REVISION THEREOF.
2. SANITARY SEWER BEDDING AND BACKFILL SHALL BE AS PER REGION STANDARD 2-3-1 WITH GRANULAR 'A' BEDDING.
3. SANITARY MANHOLES SHALL BE AS PER REGION STANDARDS 2-5-2 & 2-5-3. FRAME AND COVER SHALL BE AS PER REGION STANDARD 2-6-1. SAFETY PLATFORMS SHALL BE AS PER REGION STANDARD 2-6-13 AND SHALL BE INSTALLED IN MANHOLES WHERE THE DEPTH EXCEEDS 5.0m.
4. GRANULAR BACKFILL AROUND MANHOLES SHALL BE GRANULAR 'B' COMPACTED BY MECHANICAL MEANS TO A MINIMUM OF 95% S.P.D.
5. ALL MANHOLE CHAMBER OPENINGS SHALL BE LOCATED ON THE UPSTREAM SIDE OF THE MANHOLES.
6. DROP STRUCTURES SHALL BE AS PER REGION STANDARDS 2-5-26 OR 2-5-27.

STORM SEWERS:

1. STORM SEWER PIPES 300mm DIA. TO 450mm DIA. SHALL BE PVC SDR 35 CONFORMING TO C.S.A. SPECIFICATION B182.2 – M1990 AND B182.4 – M1992 OR LATEST REVISION THEREOF, UNLESS OTHERWISE NOTED. STORM SEWER PIPES LARGER THAN 450mm DIA. SHALL BE REINFORCED CONCRETE CONFORMING TO C.S.A. SPECIFICATION A257.2 – M1982 OR LATEST REVISION THEREOF. PIPE JOINTS SHALL BE BY MEANS OF APPROVED RUBBER GASKETS CONFORMING TO C.S.A. SPECIFICATION A257.2 – M1982 OR LATEST REVISION THEREOF.
2. STORM SEWER BEDDING AND BACKFILL SHALL BE AS PER O.P.S.D. 802.010 CLASS 'B' WITH 20mm CRUSHER-RUN LIMESTONE FOR PVC PIPE, AND 802.030 CLASS 'B' WITH 20mm CRUSHER-RUN LIMESTONE FOR CONCRETE PIPE.
3. STORM MANHOLES SHALL BE AS PER O.P.S.D. 701.010, 701.011, 701.012 AND 701.013, WITH SIZE AS NOTED ON THE DRAWINGS. FRAME AND COVER SHALL BE AS PER O.P.S.D. 401.010 TYPE 'B'. SAFETY PLATFORMS SHALL BE AS PER O.P.S.D. 404.020 AND SHALL BE INSTALLED IN MANHOLES WHERE THE DEPTH EXCEEDS 5.0m. STORM MANHOLE BENCHING SHALL BE TO THE OBVERT OF THE PIPE AS PER O.P.S.D. 701.021, MINIMUM 230mm IN WIDTH, OR AS SPECIFIED ON THE DRAWINGS.
4. GRANULAR BACKFILL AROUND MANHOLES AND CATCHBASINS SHALL BE GRANULAR 'B' COMPACTED BY MECHANICAL MEANS TO A MINIMUM OF 95% S.P.D.
5. ALL MANHOLE CHAMBER OPENINGS SHALL BE LOCATED ON THE UPSTREAM SIDE OF THE MANHOLES.
6. DROP STRUCTURES SHALL BE AS PER O.P.S.D. 1003.010 OR 1003.020.
7. STREET CATCHBASIN FRAME AND GRATE PER O.P.S.D. 400.020.

RESTORATION NOTES:

1. SERVICES WITHIN MUNICIPAL RIGHT-OF-WAY TO BE CONSTRUCTED IN VERTICAL TRENCH. TRENCH SHALL BE BACKFILLED WITH UNSHRINKABLE FILL, AND RESTORED PER CITY STANDARDS 2220.030, 2220.031 & 2220.032.
2. ALL AREAS DISTURBED BY THE CONTRACTOR DURING THE CONSTRUCTION OF WORKS SHOWN HEREON SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER.
   - MUNICIPAL SIDEWALKS AND CURBS TO BE RESTORED PER CITY STANDARDS.
   - RESTORATION OF PRIVATE DRIVEWAYS, CURB & WALKWAYS TO MATCH EXISTING SPECIFICATIONS.
   - ALL GRASS AND VEGETATION-COVERED AREAS SHALL BE RESTORED BY PLACING 75mm OF TOPSOIL & No. 1 NURSERY SOD.

PAVEMENT SPECIFICATION:

COURSE	THICKNESS	SPECIFICATION
SURFACE COURSE	40mm	HL-3 ASPHALT
BINDER COURSE	65mm	HL-8 ASPHALT
GRANULAR BASE	200mm	GRANULAR 'A'
GRANULAR SUB-BASE	250mm	GRANULAR 'B'
FREE-DRAINING SAND FILL OVER PARKING GARAGE SLAB (THICKNESS PER GEOTECHNICAL ENGINEER'S RECOMMENDATION)		

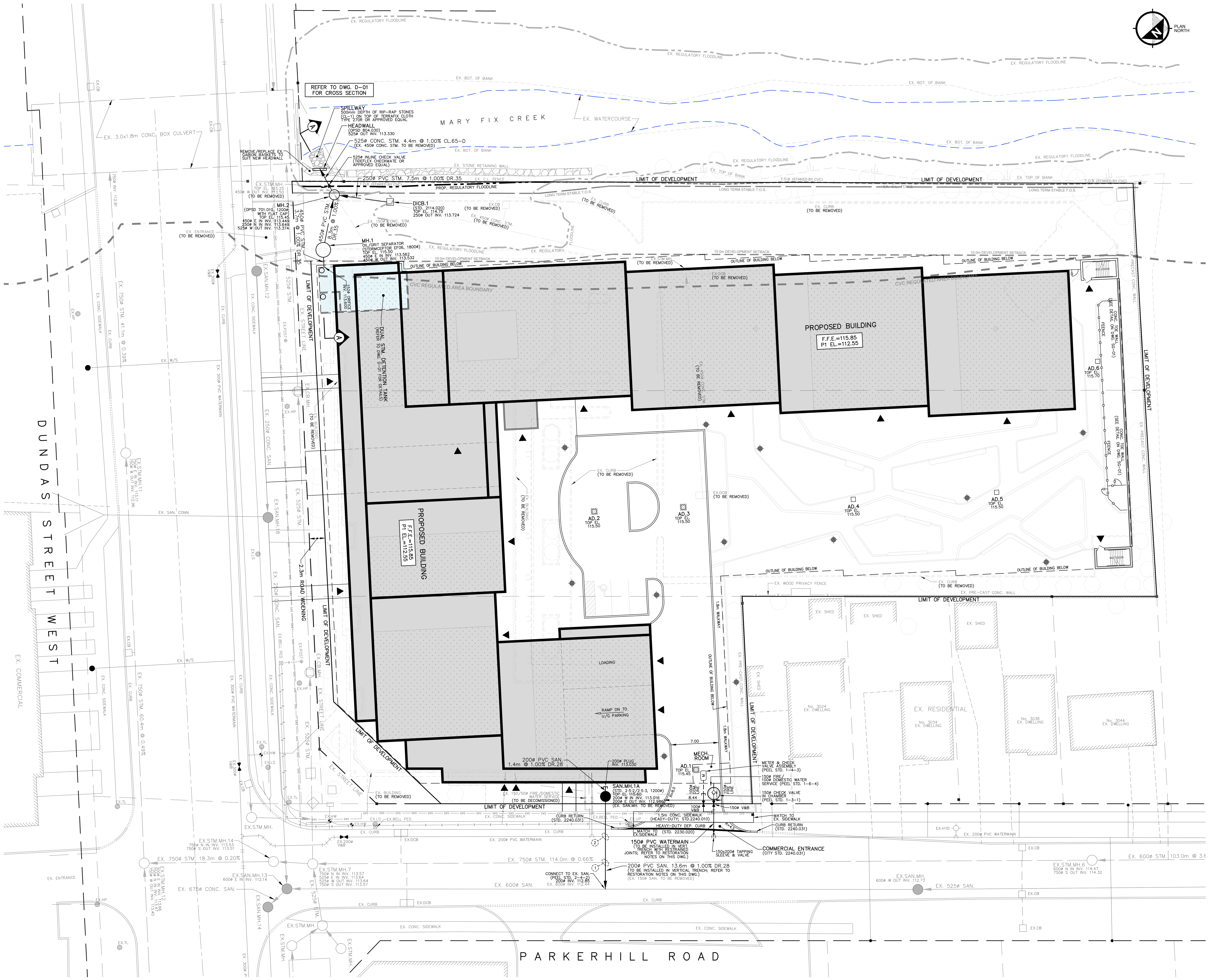
STORMWATER MANAGEMENT SUMMARY

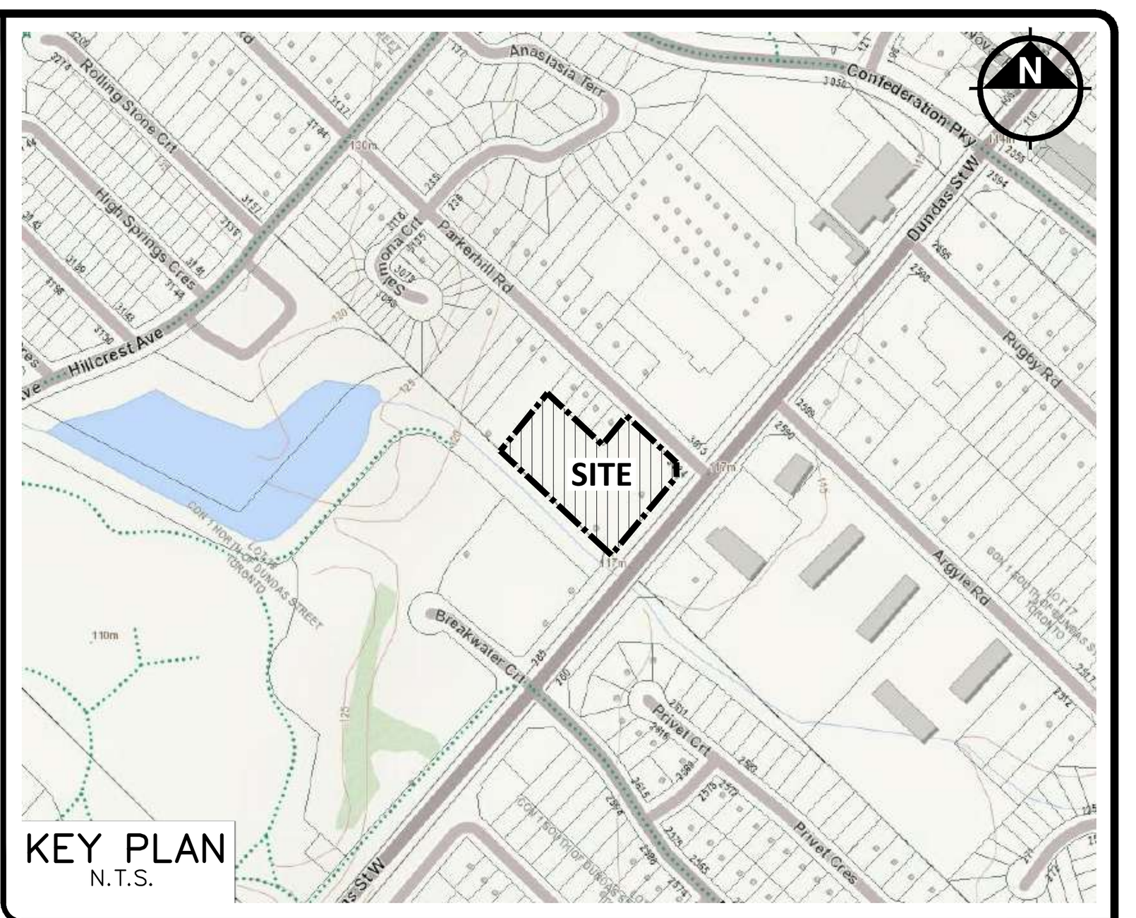
ORIFICE SIZE	152mmø
ORIFICE INVERT ELEVATION	113.60
10-YEAR WATER LEVEL	115.05
10-YEAR RELEASE RATE	56.5 L/s
ALLOWABLE RELEASE RATE	60.0 L/s
PROVIDED STORAGE	159.1 m^3
STORMWATER DETENTION TANK	110.3 m^3
STORMWATER RE-USE TANK	20.8 m^3
DRY SWALE	28.0 m^3
REQUIRED STORAGE	149.5 m^3
QUANTITY CONTROL	104.0 m^3
WATER BALANCE	45.5 m^3

PIPE CROSSINGS:

CROSSING No. 1	
T/G EL.	115.43
750ø STM. INV.	113.85
200ø SAN. OBV.	113.09
SEPARATION DIST.	0.76m

CROSSING No. 2	
T/G EL.	115.39
200ø WM INV.	113.49
200ø SAN. OBV.	113.13
SEPARATION DIST.	0.36m





LEGEND

- DENOTES VALVE AND CHAMBER
- DENOTES VALVE AND BOX
- DENOTES HYDRANT
- AD DENOTES AREA DRAIN (CONNECTED TO INTERNAL BUILDING PLUMBING)
- CB DENOTES SINGLE CATCHBASIN
- DCB DENOTES DOUBLE CATCHBASIN
- DENOTES CATCHBASIN WITH CB SHIELD INSERT
- DENOTES SANITARY MANHOLE
- DENOTES STORM MANHOLE
- DENOTES EXTERIOR ENTRANCE
- DENOTES PIPE CROSSING
- DENOTES LIGHT POLE
- DENOTES PROPOSED BUILDING ABOVE GRADE
- DENOTES GREEN ROOF
- DENOTES STORM DETENTION TANK
- DENOTES EXISTING FLOODLINE
- DENOTES PROPOSED FLOODLINE
- DENOTES REGULATED AREA BOUNDARY
- DENOTES LONG TERM STABLE TOP OF SLOPE LINE
- DENOTES TOP OF BANK STAKED BY CVC ON FEB. 26, 2020
- DENOTES PROPOSED 10m DEVELOPMENT SETBACK

DRAWING LIST

SS-01	SITE SERVICING PLAN
SG-01	SITE GRADING PLAN
SC-01	EROSION & SEDIMENT CONTROL PLAN
D-01	DETAILS
D-02	DETAILS

SUBMISSION HISTORY

No.	ISSUED FOR	DATE
1.	ISSUED FOR ZBA/SPA	MAR.15,2021
2.	ISSUED FOR ZBA/SPA – 2ND SUBMISSION	MAR.28,2022

REVISIONS

No.	DESCRIPTION	BY	DATE

BENCHMARK NOTE:
ELEVATIONS SHOWN HEREON ARE REFERRED TO THE CITY OF MISSISSAUGA BENCHMARK No. 1059, LOCATED AT THE BASE OF A 750mmø CONCRETE TRAFFIC POLE AT THE NORTHWEST CORNER OF DUNDAS STREET WEST AND PARKERHILL ROAD, HAVING A PUBLISHED ELEVATION OF 115.617 METRES.

CONSULTANT

LICENSED PROFESSIONAL ENGINEER T. DUMYN 100072175 MAR.28,2022 PROVINCE OF ONTARIO

MUNICIPAL APPROVAL

urbanworks ENGINEERING CORPORATION
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e. general@urbanworkseng.com | w. www.urbanworkseng.com

MIXED-USE HIGHRISE DEVELOPMENT
255 DUNDAS STREET WEST

Region of Peel working with you

MISSISSAUGA

SCALE 0 2.5 5.0 7.5 10.0 12.5 15.0 17.5 20.0 22.5 25.0m

SITE SERVICING PLAN

CITY FILE: DARC 20-30 W7		PROJECT No. 19-0045MI	
DATE: MAR. 28, 2022	DESIGNED BY: T.D.	DWG. No. SS-01	
SCALE: 1:250	DRAWN BY: T.D.		
	CHECKED BY: M.M.		