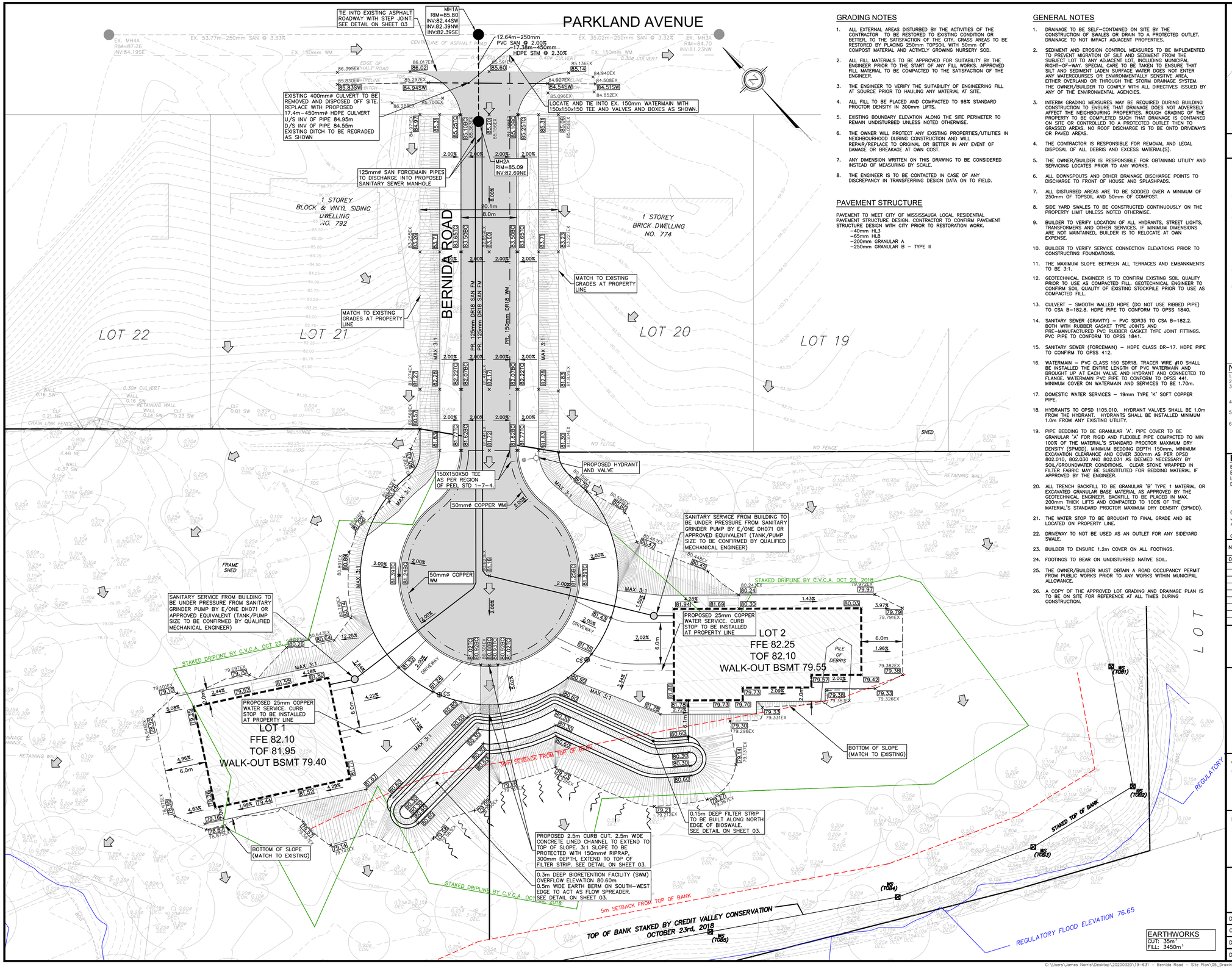


GRADING NOTES

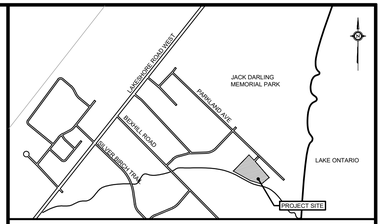
1. ALL EXTERNAL AREAS DISTURBED BY THE ACTIVITIES OF THE CONTRACTOR TO BE RESTORED TO EXISTING CONDITION OR BETTER, TO THE SATISFACTION OF THE CITY. GRASS AREAS TO BE RESTORED BY PLACING 250mm TOPSOIL WITH 50mm OF COMPOST MATERIAL AND ACTIVELY GROWING NURSERY SOD.
2. ALL FILL MATERIALS TO BE APPROVED FOR SUITABILITY BY THE ENGINEER PRIOR TO THE START OF ANY FILL WORKS. APPROVED FILL MATERIAL TO BE COMPACTED TO THE SATISFACTION OF THE ENGINEER.
3. THE ENGINEER TO VERIFY THE SUITABILITY OF ENGINEERING FILL AT SOURCE PRIOR TO HAULING ANY MATERIAL AT SITE.
4. ALL FILL TO BE PLACED AND COMPACTED TO 98% STANDARD PROCTOR DENSITY IN 300mm LIFTS.
5. EXISTING BOUNDARY ELEVATION ALONG THE SITE PERIMETER TO REMAIN UNDISTURBED UNLESS NOTED OTHERWISE.
6. THE OWNER WILL PROTECT ANY EXISTING PROPERTIES/UTILITIES IN NEIGHBOURHOOD DURING CONSTRUCTION AND WILL REPAIR/REPLACE TO ORIGINAL OR BETTER IN ANY EVENT OF DAMAGE OR BREAKAGE AT OWN COST.
7. ANY DIMENSION WRITTEN ON THIS DRAWING TO BE CONSIDERED INSTEAD OF MEASURING BY SCALE.
8. THE ENGINEER IS TO BE CONTACTED IN CASE OF ANY DISCREPANCY IN TRANSFERRING DESIGN DATA ON TO FIELD.

PAVEMENT STRUCTURE

PAVEMENT TO MEET CITY OF MISSISSAUGA LOCAL RESIDENTIAL PAVEMENT STRUCTURE DESIGN. CONTRACTOR TO CONFIRM PAVEMENT STRUCTURE DESIGN WITH CITY PRIOR TO RESTORATION WORK.
- -40mm HL3
- -65mm HL8
- -200mm GRANULAR A
- -250mm GRANULAR B – TYPE II

GENERAL NOTES

1. DRAINAGE TO BE SELF-CONTAINED ON SITE BY THE CONSTRUCTION OF SWALES OR DRAIN TO A PROTECTED OUTLET. DRAINAGE TO NOT IMPACT ADJACENT PROPERTIES.
2. SEDIMENT AND EROSION CONTROL MEASURES TO BE IMPLEMENTED TO PREVENT MIGRATION OF SILT AND SEDIMENT FROM THE SUBJECT LOT TO ANY ADJACENT LOT, INCLUDING MUNICIPAL RIGHT-OF-WAY. SPECIAL CARE TO BE TAKEN TO ENSURE THAT SILT AND SEDIMENT LADEN SURFACE WATER DOES NOT ENTER ANY WATERCOURSES OR ENVIRONMENTALLY SENSITIVE AREA, EITHER OVERLAND OR THROUGH THE STORM DRAINAGE SYSTEM. THE OWNER/BUILDER TO COMPLY WITH ALL DIRECTIVES ISSUED BY ANY OF THE ENVIRONMENTAL AGENCIES.
3. INTERIM GRADING MEASURES MAY BE REQUIRED DURING BUILDING CONSTRUCTION TO ENSURE THAT DRAINAGE DOES NOT ADVERSELY AFFECT THE NEIGHBOURING PROPERTIES. ROUGH GRADING OF THE PROPERTY TO BE COMPLETED SUCH THAT DRAINAGE IS CONTAINED ON SITE OR CONTROLLED TO A PROTECTED OUTLET THEN TO GRASSED AREAS. NO ROOF DISCHARGE IS TO BE ONTO DRIVEWAYS OR PAVED AREAS.
4. THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND LEGAL DISPOSAL OF ALL DEBRIS AND EXCESS MATERIAL(S).
5. THE OWNER/BUILDER IS RESPONSIBLE FOR OBTAINING UTILITY AND SERVICING LOCATES PRIOR TO ANY WORKS.
6. ALL DOWNSPOUTS AND OTHER DRAINAGE DISCHARGE POINTS TO DISCHARGE TO FRONT OF HOUSE AND SPLASHPADS.
7. ALL DISTURBED AREAS ARE TO BE SODDED OVER A MINIMUM OF 250mm OF TOPSOIL AND 50mm OF COMPOST.
8. SIDE YARD SWALES TO BE CONSTRUCTED CONTINUOUSLY ON THE PROPERTY LIMIT UNLESS NOTED OTHERWISE.
9. BUILDER TO VERIFY LOCATION OF ALL HYDRANTS, STREET LIGHTS, TRANSFORMERS AND OTHER SERVICES. IF MINIMUM DIMENSIONS ARE NOT MAINTAINED, BUILDER IS TO RELOCATE AT OWN EXPENSE.
10. BUILDER TO VERIFY SERVICE CONNECTION ELEVATIONS PRIOR TO CONSTRUCTING FOUNDATIONS.
11. THE MAXIMUM SLOPE BETWEEN ALL TERRACES AND EMBANKMENTS TO BE 3:1.
12. GEOTECHNICAL ENGINEER IS TO CONFIRM EXISTING SOIL QUALITY PRIOR TO USE AS COMPACTED FILL. GEOTECHNICAL ENGINEER TO CONFIRM SOIL QUALITY OF EXISTING STOCKPILE PRIOR TO USE AS COMPACTED FILL.
13. CULVERT – SMOOTH WALLED HDPE (DO NOT USE RIBBED PIPE) TO CSA B-182.8. HDPE PIPE TO CONFORM TO OPSS 1840.
14. SANITARY SEWER (GRAVITY) – PVC SDR35 TO CSA B-182.2. BOTH WITH RUBBER GASKET TYPE JOINTS AND PRE-MANUFACTURED PVC RUBBER GASKET TYPE JOINT FITTINGS. PVC PIPE TO CONFORM TO OPSS 1841.
15. SANITARY SEWER (FORCEMAIN) – HDPE CLASS DR-17. HDPE PIPE TO CONFIRM TO OPSS 412.
16. WATERMAIN – PVC CLASS 150 SDR18. TRACER WIRE #10 SHALL BE INSTALLED THE ENTIRE LENGTH OF PVC WATERMAIN AND BROUGHT UP AT EACH VALVE AND HYDRANT AND CONNECTED TO FLANGE. WATERMAIN PVC PIPE TO CONFORM TO OPSS 441. MINIMUM COVER ON WATERMAIN AND SERVICES TO BE 1.70m.
17. DOMESTIC WATER SERVICES – 19mm TYPE 'K' SOFT COPPER PIPE.
18. HYDRANTS TO OPSD 1105.010. HYDRANT VALVES SHALL BE 1.0m FROM THE HYDRANT. HYDRANTS SHALL BE INSTALLED MINIMUM 1.0m FROM ANY EXISTING UTILITY.
19. PIPE BEDDING TO BE GRANULAR 'A'. PIPE COVER TO BE GRANULAR 'A' FOR RIGID AND FLEXIBLE PIPE COMPACTED TO MIN 100% OF THE MATERIAL'S STANDARD PROCTOR MAXIMUM DRY DENSITY (SPMDD). MINIMUM BEDDING DEPTH 150mm, MINIMUM EXCAVATION CLEARANCE AND COVER 300mm AS PER OPSD 802.010, 802.030 AND 802.031 AS DEEMED NECESSARY BY SOIL/GROUNDWATER CONDITIONS. CLEAR STONE WRAPPED IN FILTER FABRIC MAY BE SUBSTITUTED FOR BEDDING MATERIAL IF APPROVED BY THE ENGINEER.
20. ALL TRENCH BACKFILL TO BE GRANULAR 'B' TYPE 1 MATERIAL OR EXCAVATED GRANULAR BASE MATERIAL AS APPROVED BY THE GEOTECHNICAL ENGINEER. BACKFILL TO BE PLACED IN MAX. 200mm THICK LIFTS AND COMPACTED TO 100% OF THE MATERIAL'S STANDARD PROCTOR MAXIMUM DRY DENSITY (SPMDD).
21. THE WATER STOP TO BE BROUGHT TO FINAL GRADE AND BE LOCATED ON PROPERTY LINE.
22. DRIVEWAY TO NOT BE USED AS AN OUTLET FOR ANY SIDEYARD SWALE.
23. BUILDER TO ENSURE 1.2m COVER ON ALL FOOTINGS.
24. FOOTINGS TO BEAR ON UNDISTURBED NATIVE SOIL.
25. THE OWNER/BUILDER MUST OBTAIN A ROAD OCCUPANCY PERMIT FROM PUBLIC WORKS PRIOR TO ANY WORKS WITHIN MUNICIPAL ALLOWANCE.
26. A COPY OF THE APPROVED LOT GRADING AND DRAINAGE PLAN IS TO BE ON SITE FOR REFERENCE AT ALL TIMES DURING CONSTRUCTION.



KEY PLAN
N.T.S.

LEGEND

EXISTING		PROPOSED	
MH1A	SANITARY MANHOLE	MH1A	SANITARY MANHOLE
HYD&V	FIRE HYDRANT	HYD&V	FIRE HYDRANT
VB	VALVE & BOX	VB	VALVE & BOX
	SANITARY SEWER		STORM SEWER
	WATERMAIN		SANITARY SEWER (GRAVITY)
	EASEMENT		SANITARY SEWER (FORCEMAIN)
	RIGHT OF WAY		WATERMAIN
	LOT LINE	CS	WATER SERVICE WITH CURB STOP
	FENCE LINE		LIMIT OF SUBJECT PROPERTY
	EDGE OF PAVEMENT		RIGHT OF WAY
x265.22EX	ELEVATION		EDGE OF PAVEMENT
	BUILDING	x265.22	ELEVATION
	RETAINING WALL	2.00%	GRADED SLOPE
	MAJOR CONTOUR LABEL		PONDING FACILITY (MAX 3:1 SLOPE)
	MINOR CONTOUR LABEL		OVERLAND FLOW
	TREE		

NOTES

1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2. CONTOUR INTERVAL IS 0.25m.
3. ALL DIMENSIONS SHALL BE CHECKED AND VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION, AND ANY DISCREPANCIES SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER.
4. ALL WORK SHALL BE IN ACCORDANCE WITH CURRENT CITY OF MISSISSAUGA STANDARD SPECIFICATIONS AND DRAWINGS UNLESS OTHERWISE NOTED HEREIN.
5. ORDER OF PRECEDENCE OF STANDARDS DRAWINGS IS FIRSTLY CITY OF MISSISSAUGA, AND SECONDLY ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD).
6. THE CONTRACTOR TO BE RESPONSIBLE FOR LOCATION OF ALL EXISTING U/G AND OVERHEAD UTILITIES. CONTRACTOR IS REQUIRED TO OBTAIN ALL LOCATIONS & NOTIFY THE VARIOUS UTILITY COMPANIES 72 HOURS PRIOR TO THE COMMENCEMENT OF ANY WORK. THE CITY OF MISSISSAUGA AND CONSULTANT ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATIONS OF EXISTING UTILITIES AS INDICATED ON THIS DRAWING.

BENCHMARK

BENCHMARK No. 710
ELEVATION = 93.663m
LOCATION: CITY OF MISSISSAUGA
DESCRIPTION:

COMPLETED BY:
J. H. GELBLOOM SURVEYING LIMITED – ONTARIO LAND SURVEYORS
476 MORDEN ROAD, UNIT 102, OAKVILLE, ON L6K 3W4 (905) 336-8210

COMPLETED ON: JANUARY 20, 2019

NO.	REVISION	DATE	BY	APPROVED
01	ISSUED FOR APPROVAL	2020/03/25	E.G.	

Greck
5770 Highway 7, Woodbridge, Ontario, L4L 1T8 www.greck.ca

LICENSED PROFESSIONAL ENGINEER
March 25, 2020
E. J. GRECK
100062911
PROVINCE OF ONTARIO

CLIENT NAME:
GEORGE PACLIK

PROJECT NAME:

BERNIDA ROAD SUBDIVISION

0 BERNIDA ROAD MISSUSSAUGA, ON

SITE SERVICING AND GRADING PLAN

DESIGNED BY:	J.N.	SCALES:	
CHECKED BY:	E.G.	HORIZONTAL:	1:250
DRAWN BY:	J.N.	VERTICAL:	
DATE:	MAR 20, 2020	SHEET SIZE:	24"x36"

PROJECT No.	19-631
DRAWING No.	C1
SHEET No.	01

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