

GEODETIC BM ELEV. = m

SITE BENCHMARK ELEV. = 209.445m
 MONUMENT 07220030009, ROUND IRON BAR WITH BRASS CAP, LOCATED IN HAMILTON IN ELMAR PARK WEST OF THE INTERSECTION OF BRIGADE DRIVE & EMPEROR AVENUE 30m WEST OF THE CENTRELINE OF BRIGADE DRIVE. CGVD-1928-1978

NOTE TO CONTRACTOR :
 DO NOT SCALE DRAWINGS.
 CONTRACTORS MUST CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK.

ALL DRAWINGS REMAIN THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REPRODUCED OR REUSED WITHOUT THE ENGINEER'S WRITTEN PERMISSION.

THE OWNER/ARCHITECT/CONTRACTOR IS ADVISED THAT M.T.E. CONSULTANTS INC. CANNOT CERTIFY ANY COMPONENT OF THE SITE WORKS NOT INSPECTED DURING CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO NOTIFY M.T.E. CONSULTANTS INC. PRIOR TO COMMENCEMENT OF CONSTRUCTION TO ARRANGE FOR INSPECTION.

NOTE:
 1. PROPERTY LINE IS APPROXIMATE ONLY.
 2. EXISTING TOPOGRAPHICAL INFORMATION PROVIDED BY A.T. McLAREN LIMITED AND MTE OLS.
 3. UNDERGROUND UTILITY LOCATES ARE PROVIDED BY FRONTIER UTILITY LOCATING SERVICES INC. INVERTS DENOTED WITH "H" ARE TAKEN FROM AS-RECORDED PLAN AND PROFILE DRAWINGS COMPLETED BY THE CITY OF HAMILTON, TRANSPORTATION, OPERATIONS AND ENVIRONMENT DIVISION AND ARE CONSIDERED APPROXIMATE ONLY. CONTRACTOR TO FIELD VERIFY AND REPORT ANY DISCREPANCIES TO ENGINEER.
 4. THIS PLAN IS PART OF A SET OF PLANS WHICH COMPRISE OF THE FOLLOWING: C1.1, C2.1, C2.2, C2.3 AND FUNCTIONAL SERVICING & PRELIMINARY SWM REPORT.

LEGEND OF EXISTING FEATURES

- SITE BOUNDARY
- - - EASEMENT
- - - EXISTING CONTOURS
- - - EXISTING DIRECTION OF DRAINAGE/SWALE
- - - EXISTING SANITARY SEWER
- - - EXISTING WATERMAIN
- - - EXISTING STORM SEWER
- - - EXISTING CURB
- - - EXISTING BUILDING
- - - EXISTING FENCE
- - - EXISTING RETAINING WALL
- - - EXISTING EMBANKMENT (SLOPE AS NOTED)
- - - EXISTING GAS LINE
- - - EXISTING HYDRO LINE
- - - EXISTING BELL LINE
- - - EXISTING ELECTRICAL LINE
- - - EXISTING TV LINE
- - - EXISTING TRAFFIC SIGNAL LINE
- - - EXISTING UNKNOWN LINE
- X (R) REMOVALS

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1.	ISSUED FOR ZBA/OPA APPROVAL	MAY 2021-05-28
No.	REVISION	BY YYYY-MM-DD



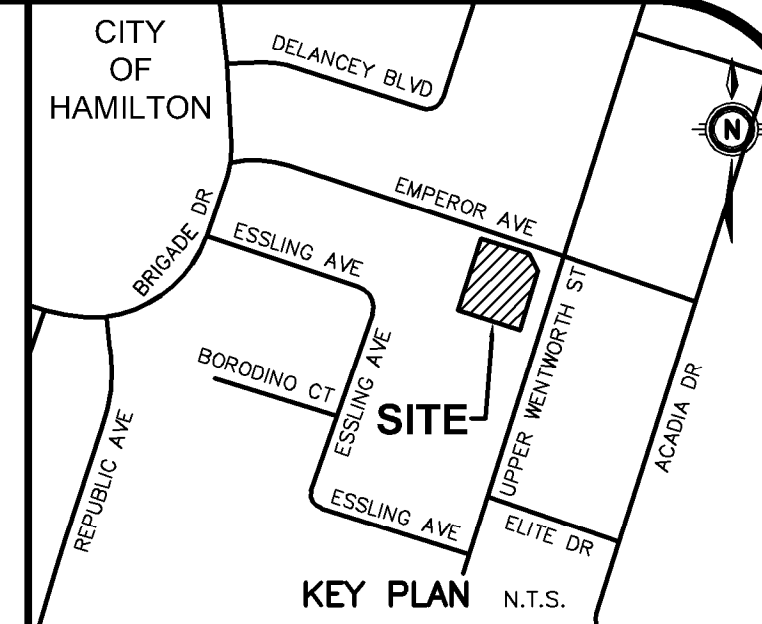
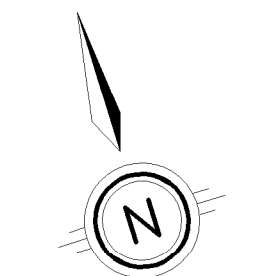
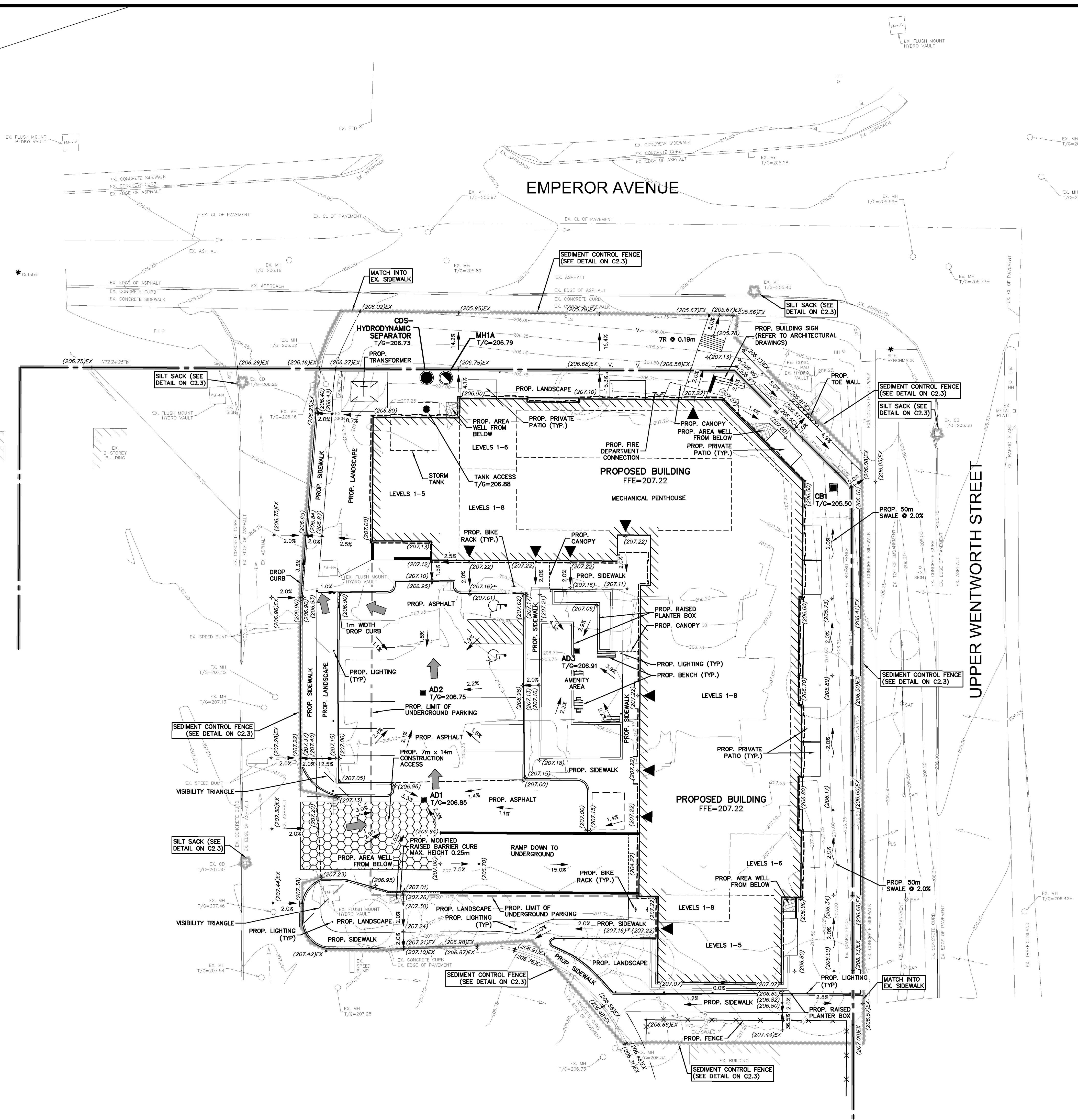
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CLIENT
SRM ARCHITECTS INC.
 279 KING STREET WEST SUITE 200 KITCHENER, ON
 PROJECT
**HAMILTON EAST KIWANIS
 NON-PROFIT HOUSING
 RESIDENTIAL DEVELOPMENT**
 1540 UPPER WENTWORTH STR HAMILTON, ON
 DRAWING

**EXISTING
 CONDITIONS AND
 REMOVALS PLAN**

Project Manager	M.GOUSIC	Project No.	48328-100
Design By	EXK/SDU	Checked By	MJG
Drawn By	DXC/SDU	Checked By	MJG
Surveyed By	OTHERS	Drawing No.	
Date	May.19/21	C1.1	
Scale	1:200	Sheet 1 of 4	



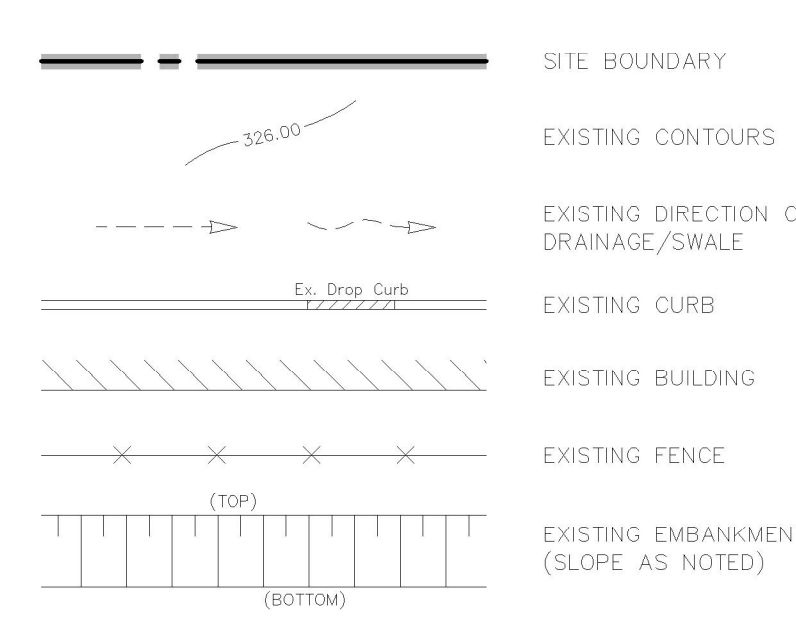
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SITE BENCHMARK ELEV. = 209.445m
 MONUMENT 07720090009, ROUND IRON BAR WITH BRASS CAP, LOCATED IN HAMILTON IN ELMAR PARK WEST OF THE INTERSECTION OF BRIGADE DRIVE & EMPEROR AVENUE 30m WEST OF THE CENTRELINE OF BRIGADE DRIVE. CGVD-1928-1978

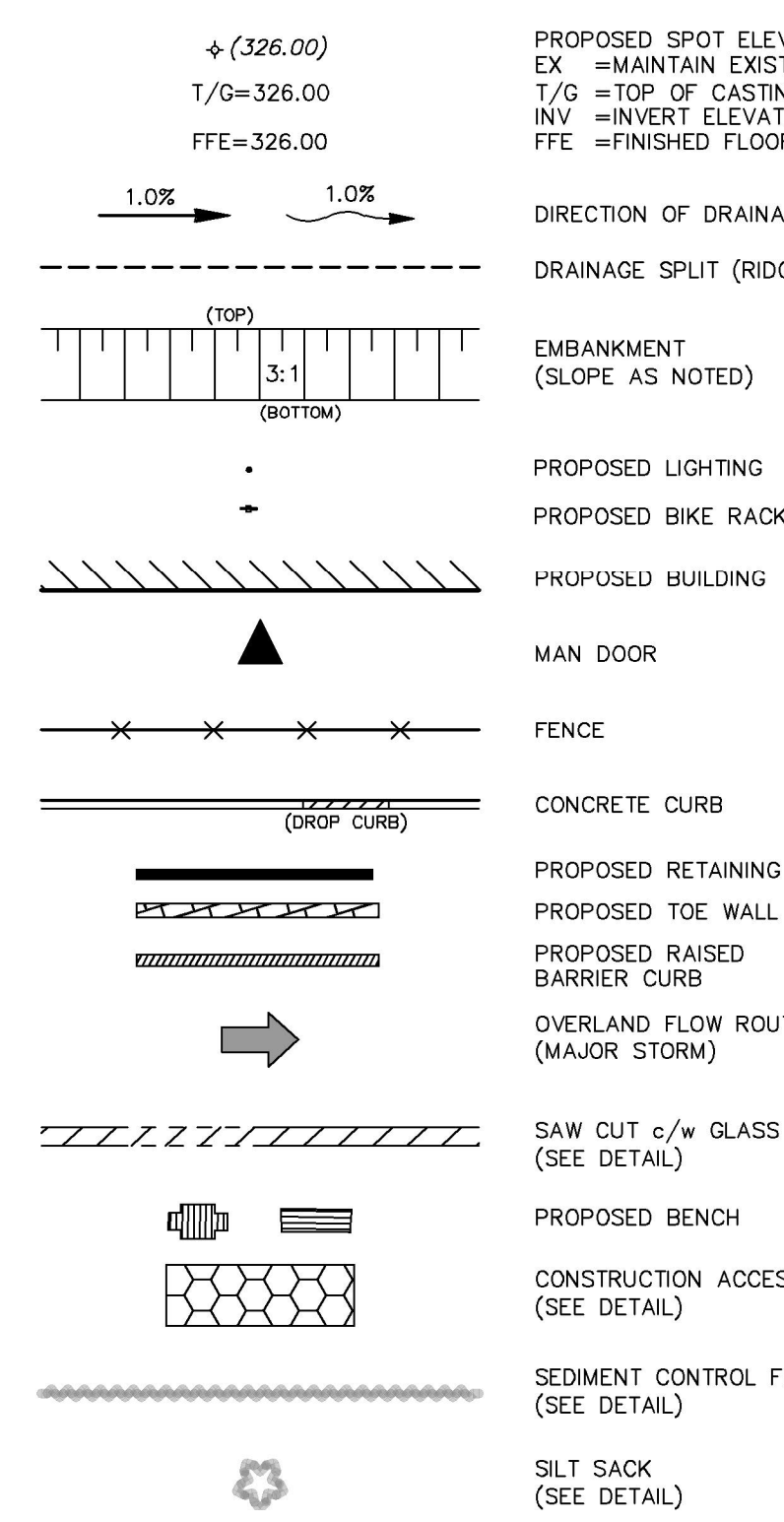
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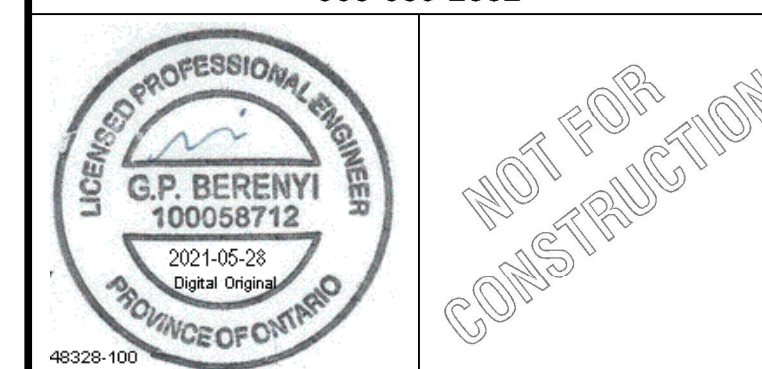
LEGEND OF EXISTING FEATURES



LEGEND OF PROPOSED FEATURES



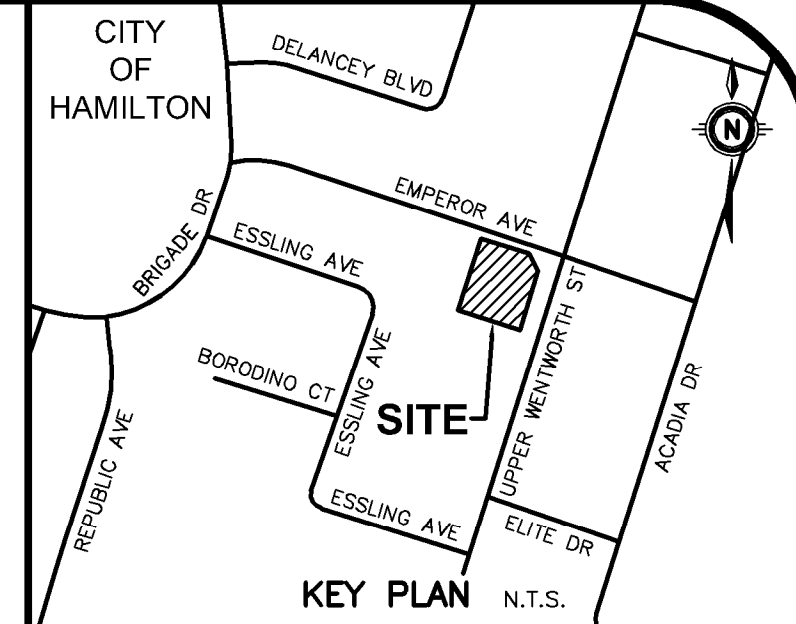
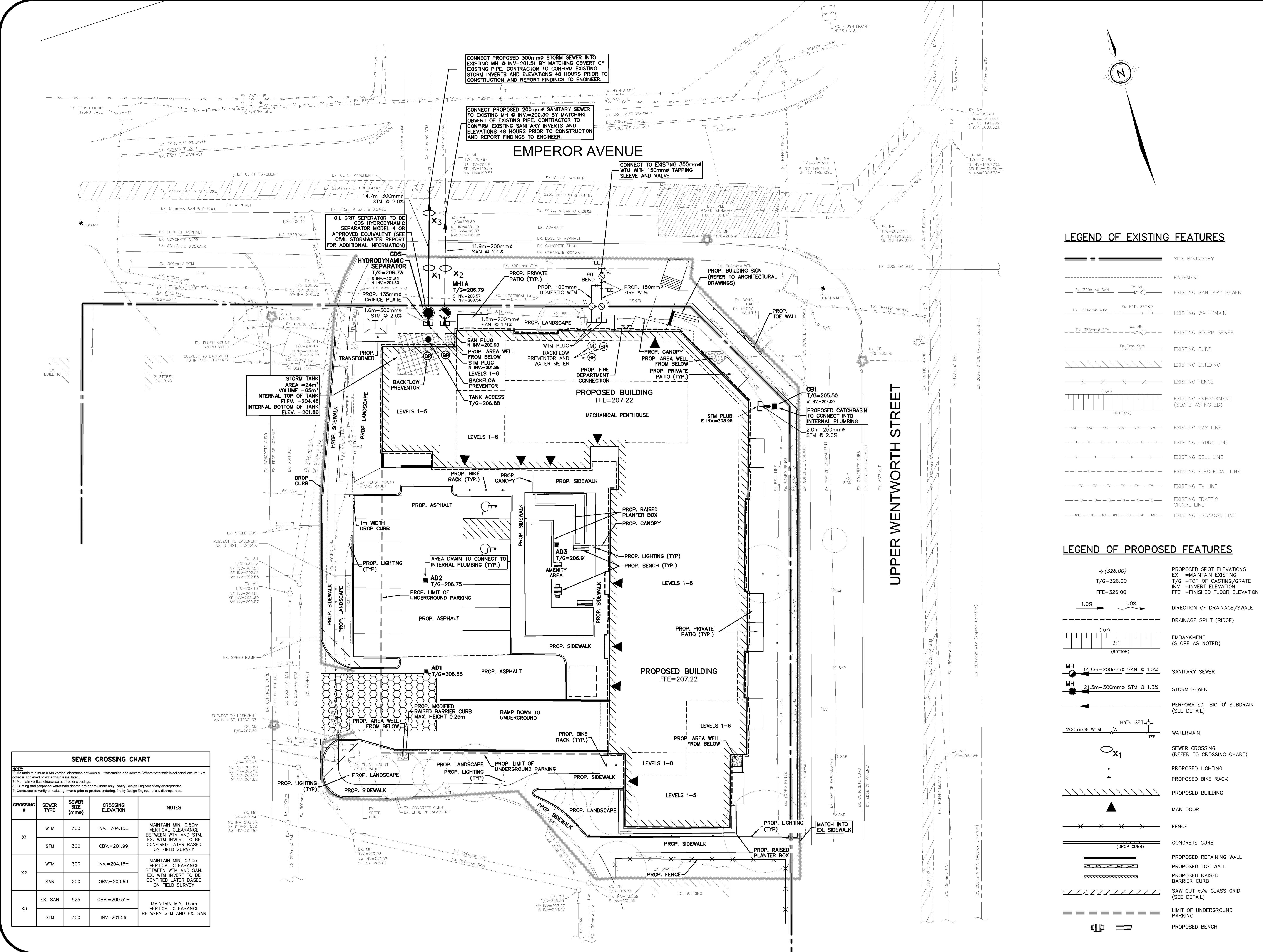
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1.	ISSUED FOR ZBA/OPA APPROVAL	MAY 2021-05-28
No.	REVISION	BY YYYY-MM-DD



CLIENT
SRM ARCHITECTS INC.
 279 KING STREET WEST SUITE 200 KITCHENER, ON
PROJECT
HAMILTON EAST KIWANIS NON-PROFIT HOUSING RESIDENTIAL DEVELOPMENT
 1540 UPPER WENTWORTH STR HAMILTON, ON

SITE GRADING AND EROSION & SEDIMENT CONTROL PLAN

Project Manager	M.GOUSIC	Project No.	48328-100
Design By	EXK/SDU	Checked By	GPB/MJG
Drawn By	DXC/SDU	Checked By	GPB/MJG
Surveyed By	OTHERS	Drawing No.	
Date	May, 21/21	C2.1	
Scale	1:200	Sheet 2 of 4	



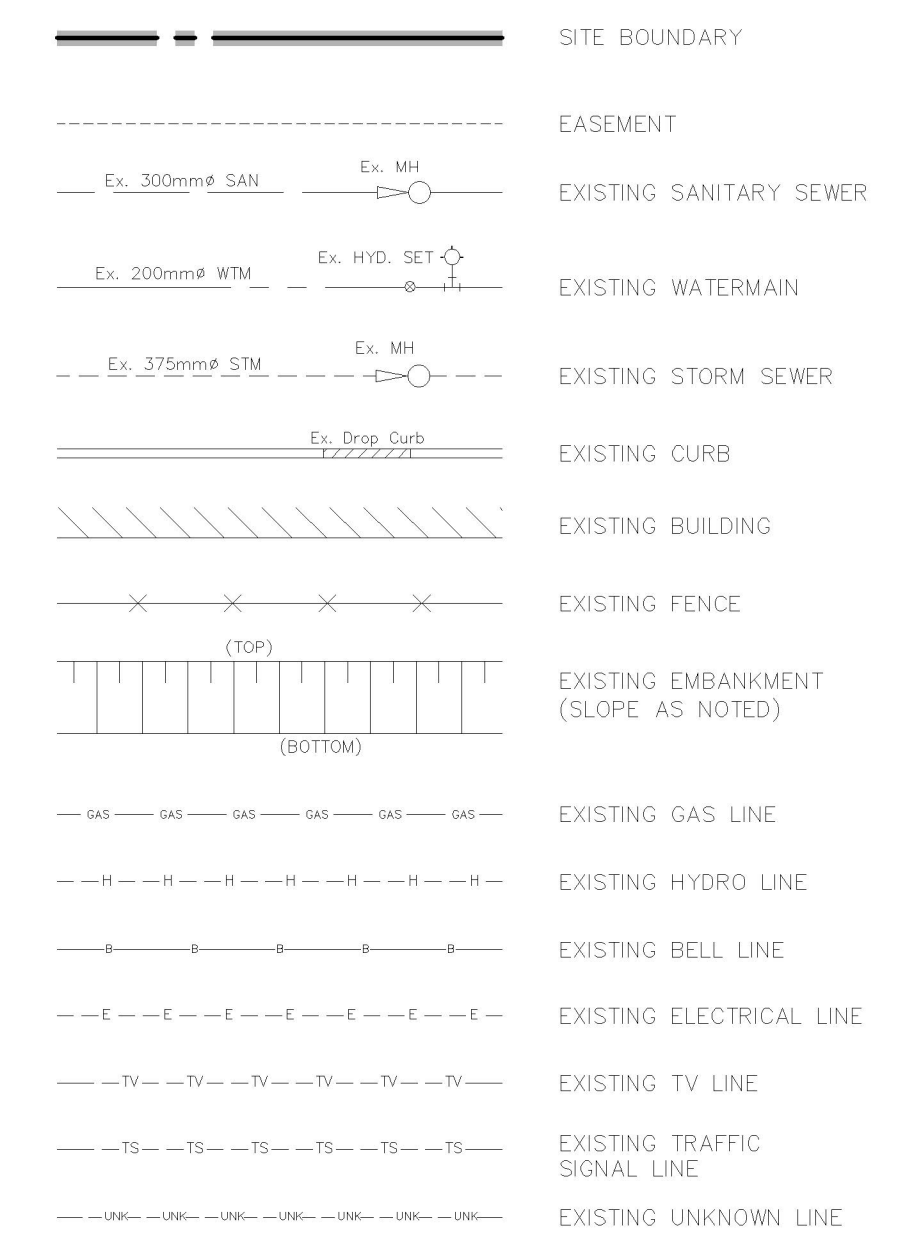
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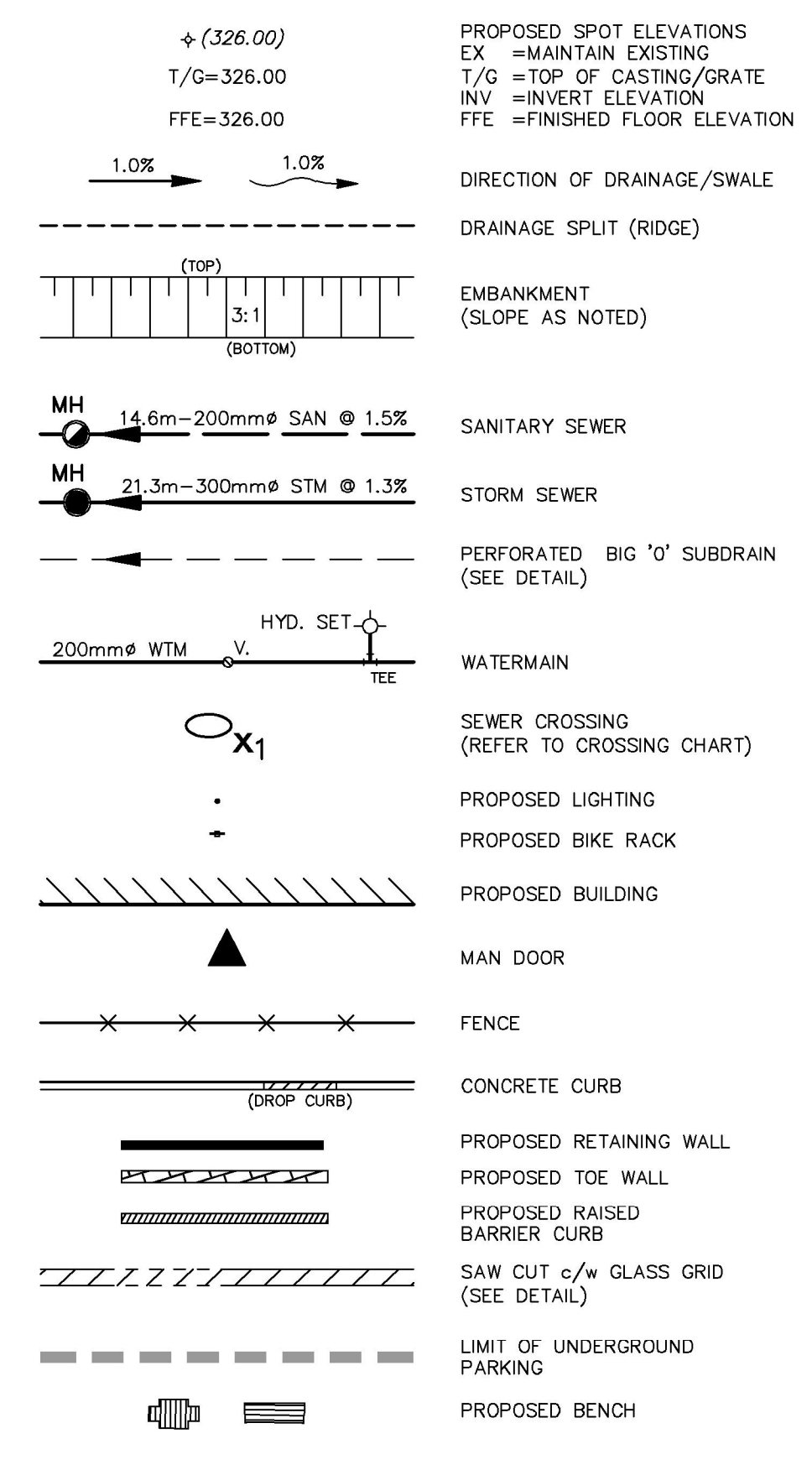
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LEGEND OF EXISTING FEATURES



LEGEND OF PROPOSED FEATURES



SEWER CROSSING CHART

NOTE:
 1) Maintain minimum 0.5m vertical clearance between all watermains and sewers. Where watermain is deflected, ensure 1.7m cover is achieved or watermain is replaced.
 2) Maintain vertical clearance at all other crossings.
 3) Existing and proposed watermain depths are approximate only. Notify Design Engineer of any discrepancies.
 4) Contractor to verify all existing inverts prior to product ordering. Notify Design Engineer of any discrepancies.

CROSSING #	SEWER TYPE	SEWER SIZE (mm)	CROSSING ELEVATION	NOTES
X1	WTM	300	INV.=204.15±	MAINTAIN MIN. 0.50m VERTICAL CLEARANCE BETWEEN WTM AND STM. EX. WTM INVERT TO BE CONFIRMED LATER BASED ON FIELD SURVEY
	STM	300	OBV.=201.99	
X2	WTM	300	INV.=204.15±	MAINTAIN MIN. 0.50m VERTICAL CLEARANCE BETWEEN WTM AND SAN. EX. WTM INVERT TO BE CONFIRMED LATER BASED ON FIELD SURVEY
	SAN	200	OBV.=200.63	
X3	EX. SAN	525	OBV.=200.51±	MAINTAIN MIN. 0.3m VERTICAL CLEARANCE BETWEEN STM AND EX. SAN
	STM	300	INV.=201.56	

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No.	REVISION	BY YYYY-MM-DD

MTE
 Engineers, Scientists, Surveyors
 905-639-2552

G.P. BERENYI
 10058712
 2021-06-28
 (Sign Original)
 PROVINCE OF ONTARIO

CLIENT
SRM ARCHITECTS INC.
 279 KING STREET WEST SUITE 200 KITCHENER, ON
PROJECT
HAMILTON EAST KIWANIS NON-PROFIT HOUSING RESIDENTIAL DEVELOPMENT
 1540 UPPER WENTWORTH STR HAMILTON, ON
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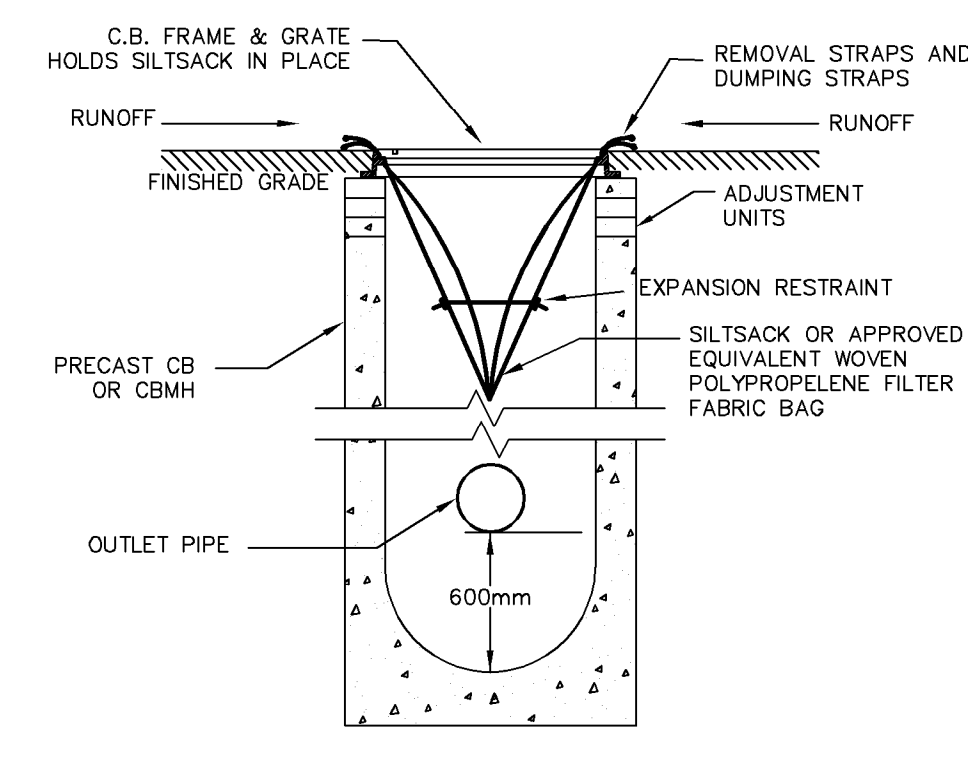
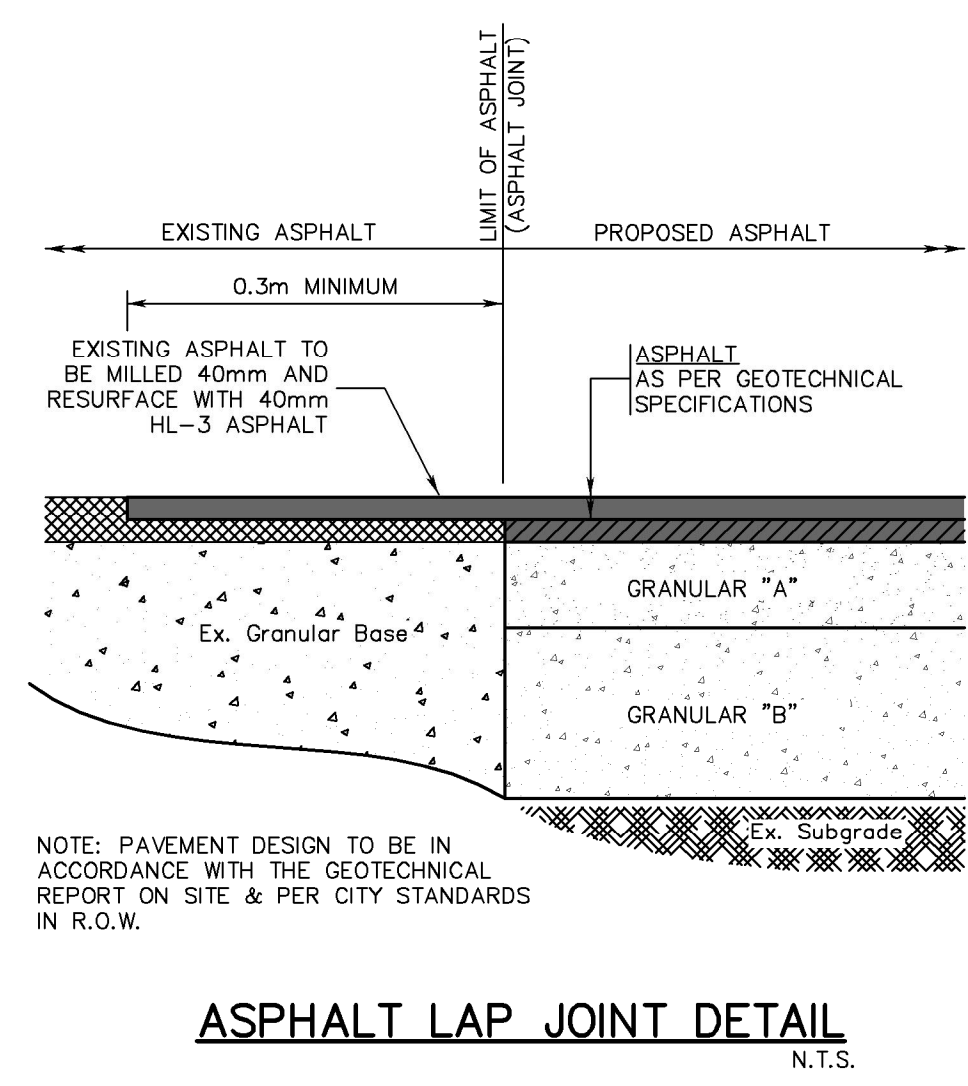
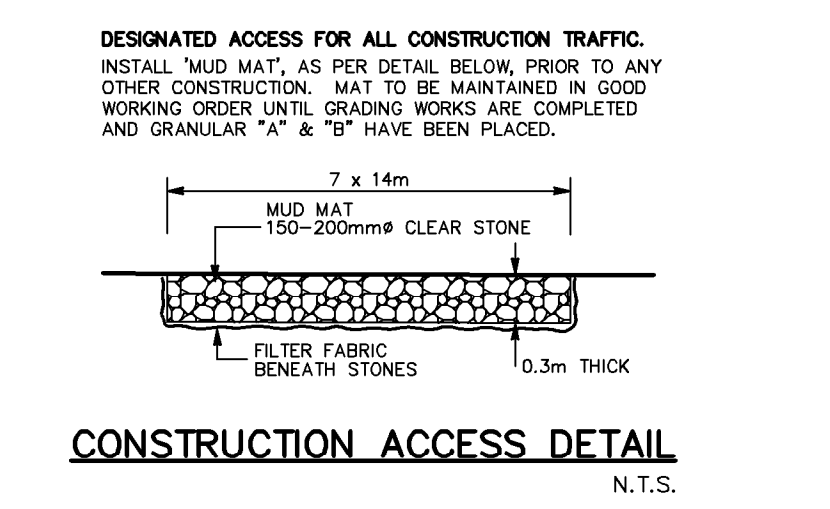
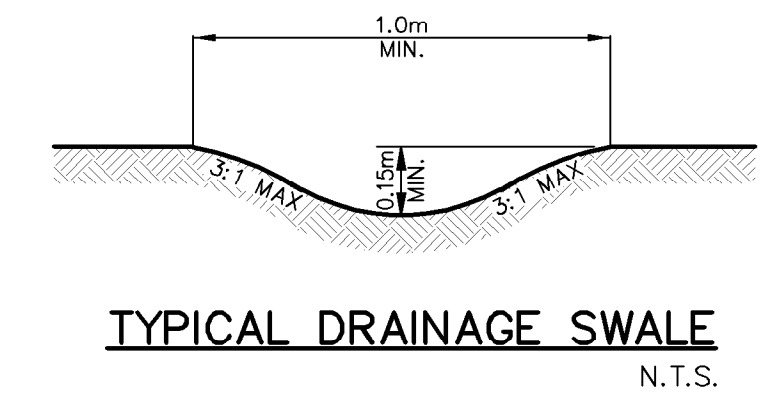
SITE SERVICING PLAN

Project Manager	M.GOUSIC	Project No.	48328-100
Design By	EXK/SDU	Checked By	GPB/MJG
Drawn By	DXC/SDU	Checked By	GPB/MJG
Surveyed By	OTHERS	Drawing No.	
Date	May 21/21	C2.2	
Scale	1:200	Sheet 3 of 4	

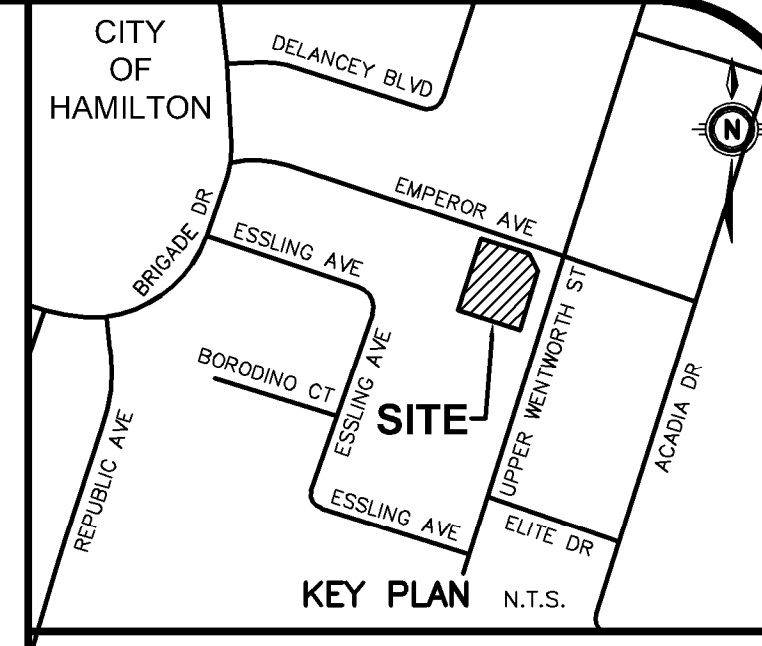
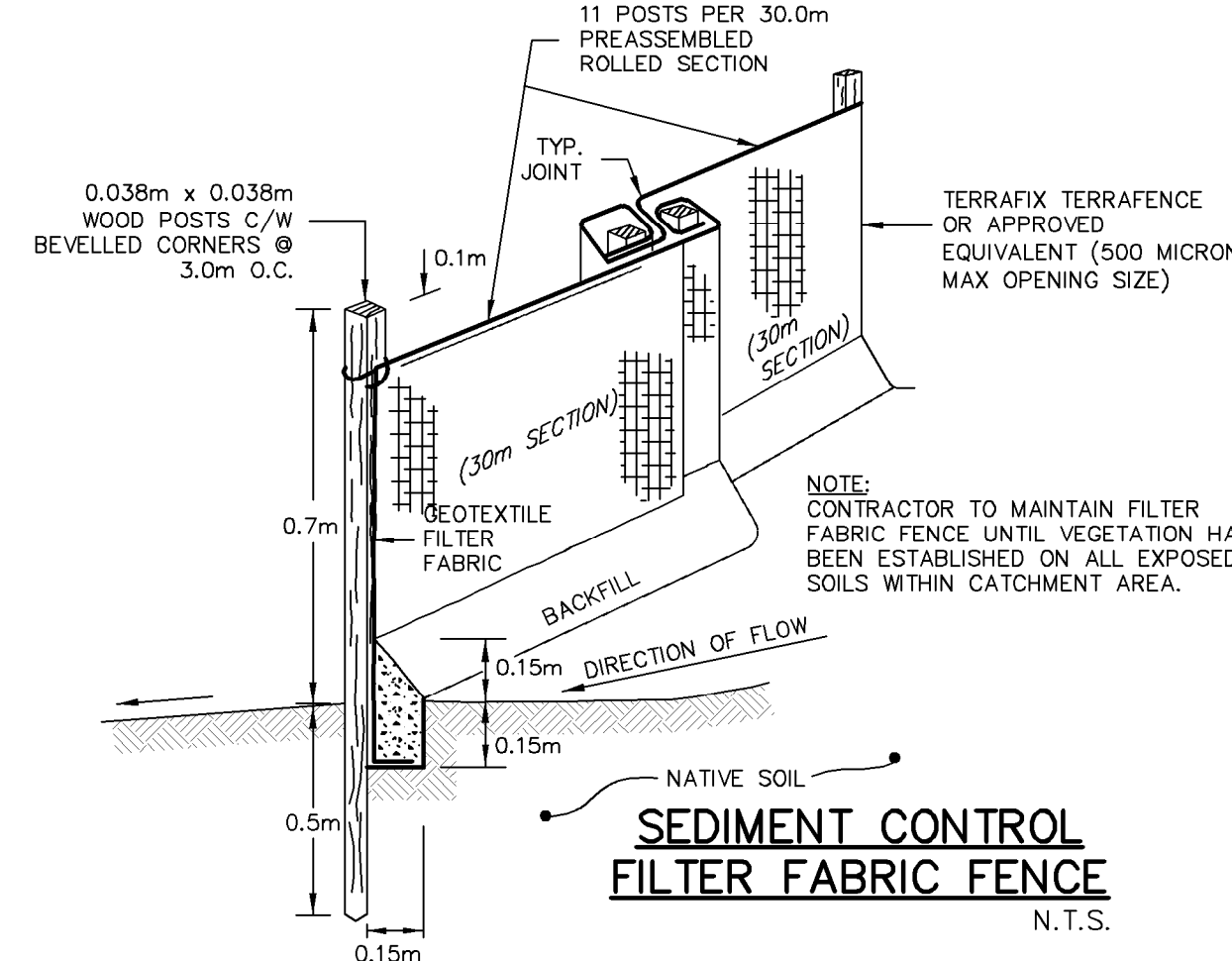
CONSTRUCTION NOTES AND SPECIFICATIONS

- GENERAL**
 - THESE PLANS NOT FOR CONSTRUCTION UNTIL SIGNED AND SEALED BY ENGINEER AND APPROVED BY THE CITY OF HAMILTON.
 - THESE PLANS ARE TO BE USED FOR SERVING AND GRADING ONLY; ANY OTHER INFORMATION SHOWN IS FOR ILLUSTRATION PURPOSES ONLY. THESE PLANS MUST NOT BE USED TO SITE THE PROPOSED BUILDING.
 - NO CHANGES ARE TO BE MADE WITHOUT THE APPROVAL OF THE DESIGN ENGINEER.
 - THESE PLANS ARE NOT TO BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE PERMISSION OF MTE CONSULTANTS INC.
 - THE APPROVAL OF THIS PLAN DOES NOT EXEMPT THE OWNER'S PROCEED WITH THE REQUIREMENTS TO OBTAIN THE VARIOUS PERMITS NORMALLY REQUIRED TO COMPLETE A CONSTRUCTION PROJECT, SUCH AS, BUT NOT LIMITED TO THE FOLLOWING:
 - ROAD CUT PERMIT
 - APPROACH APPROVAL PERMITS
 - COMMITTEE OF ADJUSTMENT
 - SEWER PERMITS
 - RELOCATION OF SERVICES
 - ENCROACHMENT AGREEMENTS
 - PRIOR TO CONSTRUCTION, THE CONTRACTOR MUST:
 - CHECK AND VERIFY ALL EXISTING CONDITIONS, LOCATIONS AND ELEVATIONS WHICH INCLUDES BUT IS NOT LIMITED TO THE BENCHMARK ELEVATIONS, CONNECTIONS AND EXISTING INVERTS. REPORT ALL DISCREPANCIES TO THE ENGINEER PRIOR TO PROCEEDING.
 - OBTAIN ALL UTILITY LOCATES AND REQUIRED PERMITS AND LICENSES.
 - VERIFY THAT THE FINISHED FLOOR ELEVATIONS AND BASEMENT FLOOR ELEVATIONS (WHICH MAY APPEAR ON THIS PLAN) COMPLY WITH THE FINAL ARCHITECTURAL DRAWINGS.
 - CONFIRM ALL DRAWINGS USED FOR CONSTRUCTION ARE OF THE MOST RECENT VERSION.
 - THE CONTRACTOR SHALL ASSUME ALL LIABILITY FOR ANY DAMAGE TO EXISTING WORKS.
 - ALL WORKS ON A MUNICIPAL RIGHT-OF-WAY WILL BE INSTALLED BY THE OWNER'S BONDED CONTRACTOR UPON APPLICATION BY OWNER AT OWNER'S EXPENSE. UNDER THE ROAD CUT PERMIT, THE CONTRACTOR IS TO MAKE CONNECTION TO THE SERVICES AND MAKE AND MAINTAIN THE TEMPORARY REPAIR OVER THE CUT, WITH PERMANENT REPAIR BEING MADE BY THE CITY CONTRACTOR AT THE OWNER/OWNER'S CONTRACTOR COST. THE CONTRACTOR IS RESPONSIBLE FOR RESTORATION OF ALL BOULEVARD AREAS.
 - CONSTRUCTION OF SEWERS, WATERMAINS AND RELATED APPURTENANCES SHALL UNDERTAKEN IN ACCORDANCE WITH THE CITY OF HAMILTON CONSTRUCTION AND MATERIALS SPECIFICATIONS MANUAL (LATEST EDITION), THE ONTARIO PROVINCIAL STANDARD DRAWINGS (SPSD), AND MINISTRY OF THE ENVIRONMENT GUIDELINES (LATEST EDITION), THE CITY DRAWINGS SHALL TAKE PRECEDENT OVER THE OPSD DRAWINGS.
 - ALL SEWERS ARE TO BE INSTALLED WITH A MINIMUM COVER OF 2.20m AT THE PROPERTY LINE BELOW THE FINAL ROAD GRADE OR AT SUCH HIGHER ELEVATION ONLY AS MAY BE NECESSITATED BY THE ELEVATION OF THE MAIN SEWER ON PRIVATE PROPERTY THE MINIMUM COVER IS TO BE NO LESS THAN 1.2m.
 - INFORMATION REGARDING ANY EXISTING SERVICES AND/OR UTILITIES SHOWN ON THE APPROVED SET OF CONSTRUCTION DRAWINGS IS FURNISHED AS THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL INTERPRET THIS INFORMATION AS HE SEES FIT WITH THE UNDERSTANDING THAT THE OWNER AND HIS AGENTS DISCLAIM ALL RESPONSIBILITY FOR ITS ACCURACY AND/OR SUFFICIENCY.
 - NO BLASTING WILL BE PERMITTED.
 - ALTERNATIVE MATERIALS WILL NOT BE ALLOWED UNLESS FIRST APPROVED IN WRITING BY THE CONSULTANT AND THE CITY OF HAMILTON.
 - APPROVED FILL, FREE OF DELETERIOUS AND ORGANIC MATERIAL AND BOULDERS SHALL BE COMPACTED TO A DRY DENSITY NOT LESS THAN 95% OF THE STANDARD PROCTOR DENSITY. AFTER COMPACTION, SOIL DENSITY TESTS SHALL BE CONDUCTED TO ENSURE ADEQUATE COMPACTION AND STABILITY OF THE FILL AND TEST RESULTS SHALL BE SUBMITTED TO THE ENGINEER.
 - CONTRACTOR IS RESPONSIBLE FOR CONTACTING ENGINEER 48 HRS PRIOR TO COMMENCING WORK TO ARRANGE FOR INSPECTION. ENGINEER TO DETERMINE DEGREE OF INSPECTION AND TESTING REQUIRED FOR CERTIFICATION OF UNDERGROUND SERVICE INSTALLATION AS MANDATED BY ONTARIO BUILDING CODE DIVISION C, PART 1, SECTION 1.2.2, GENERAL REVIEW. FAILURE TO NOTIFY ENGINEER WILL RESULT IN EXTENSIVE POST CONSTRUCTION INSPECTION AT CONTRACTORS EXPENSE.
 - PLAN TO BE READ IN CONJUNCTION WITH MTE DRAWINGS C1.1, C2.1, C2.2 AND C2.3.
 - PLAN TO BE READ IN CONJUNCTION WITH FUNCTION SERVING AND SIMM REPORT PREPARED BY MTE CONSULTANTS INC.
 - SITE PLAN INFORMATION TAKEN FROM PLAN PREPARED BY SRM ARCHITECTS INC., DATED MAY 19, 2021.
 - EXISTING TOPOGRAPHICAL AND LEGAL INFORMATION TAKEN FROM PLAN PREPARED BY A.T. McLAREN LIMITED, DATED JULY 8, 2020. MTE ASSUMES THAT ALL TOPOGRAPHICAL INFORMATION IS AN ACCURATE REPRESENTATION OF CURRENT CONDITIONS.
 - RETAINING WALLS TO BE DESIGNED BY OTHERS. FOR WALLS EXCEEDING 1.0m IN HEIGHT, SHOP DRAWINGS MUST BE SUBMITTED FOR REVIEW AND APPROVAL AND BUILDING PERMIT MUST BE OBTAINED. WALLS OVER 0.6m IN HEIGHT REQUIRE GUARDS. HIGH SIDE OF RETAINING WALLS TO BE BACKFILLED WITH FREE DRAINING MATERIAL.
 - SITE SERVING CONTRACTOR TO TERMINATE ALL SERVICES 1.0 METRES FROM FOUNDATION WALL.
 - FILTER FABRIC TO BE TERRAFIX 200R OR APPROVED EQUIVALENT.
 - MAXIMUM GRASSED SLOPE TO BE 3:1. SLOPES GREATER THAN 3:1 TO BE LANDSCAPED WITH LOW MAINTENANCE GROUND COVER.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC AND SAFETY MEASURES DURING THE CONSTRUCTION PERIOD INCLUDING THE SUPPLY, INSTALLATION AND REMOVAL OF ALL NECESSARY SIGNALS, DELINEATORS, MARKERS, AND BARRIERS. ALL SIGNS, ETC. SHALL CONFORM TO THE STANDARDS OF THE CITY OF CAMBRIDGE AND THE MTO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
 - THE POSITION OF POLE LINES, CONDUITS, WATERMAINS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND, WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL INFORM HIMSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.
 - CONTRACTOR TO MAINTAIN A 'CONFINED TRENCH CONDITION' IN ALL SEWER AND SERVICE TRENCHES.
 - FOLLOWING COMPLETION OF PROPOSED WORKS AND PRIOR TO OCCUPANCY INSPECTION, ALL STORM AND SANITARY SEWERS ARE TO BE FLUSHED, AND ALL CATCHBASIN AND CATCHBASIN MANHOLE SUMPS ARE TO BE CLEANED OF DEBRIS AND SILT.
 - APPROVAL OF THIS DRAWING IS FOR MATERIAL ACCEPTABILITY AND COMPLIANCE WITH MUNICIPAL AND PROVINCIAL SPECIFICATIONS AND STANDARDS ONLY. APPROVAL BY INSPECTION BY THE CITY OF THE WORKS DOES NOT CERTIFY THE LINE AND GRADE OF THE WORKS AND IT IS THE OWNER'S RESPONSIBILITY TO HAVE THEIR ENGINEER CERTIFY THIS ACCORDINGLY.

- STORM SEWERS**
 - PIPE BEDDING FOR RIGID PIPE TO BE CLASS "B" AS PER OPSD 802.030. PIPE BEDDING FOR FLEXIBLE PIPE TO BE AS PER OPSD 802.010. BEDDING MATERIAL AND COVER MATERIAL TO BE GRAN. "A" TRENCH BACKFILL TO BE NATIVE MATERIAL REPLACED IN 300mm LIFTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.
 - STORM SEWERS 200mm TO 375mm SHALL BE POLYVINYL CHLORIDE (PVC) PIPE SDR35 ASTM-D3034 WITH INTEGRAL BELL AND SPIGOT UTILIZING FLEXIBLE ELASTOMERIC SEALS.
 - FACTORY FABRICATED TEES SHALL BE USED FOR ALL STORM SERVICE CONNECTIONS.
 - MANHOLES AND MANHOLE CATCHBASINS TO BE 1200mm DIAMETER PRECAST WITH ALUMINIUM STEPS AT 300mm CENTRES AS PER OPSD 701.010 UNLESS OTHERWISE SPECIFIED. (NO SLUMPS)
 - CATCHBASINS TO BE 600mm SQUARE PRECAST AS PER OPSD 705.010. MODIFIED WITH A GOSS TRAP AS PER SEM-304. (GOSS TRAPS ARE NOT REQUIRED ON CB'S WITHIN GRASSED AREAS).
 - AREA DRAINS LOCATED WITHIN ASPHALT/CONCRETE AREA(S) TO BE ZURN 2675 SQUARE (per sq. NH) OR APPROVED EQUIVALENT UNLESS OTHERWISE SPECIFIED BY ARCHITECT.
 - ALL STORM STRUCTURES TO HAVE A MINIMUM 600mm DEEP SUMP. WHEN THE STRUCTURE INCLUDES THE INSTALLATION OF A SNOT (OR APPROVED EQUIVALENT) THE SUMP DEPTH TO BE MIN 2.5 TIMES THE OUTLET PIPE DIAMETER SIZE.
 - MANHOLE AND CATCHBASIN, FRAMES, GRATES, CASTINGS AND LIDS TO BE QUALITY GREY IRON ASTM A48 CLASS 30B.
 - STORM MANHOLE LIDS TO BE PER OPSD 401.010 - TYPE 'B' CATCHBASIN AND CATCHBASIN MANHOLE GRATES TO BE PER OPSD 400.100. DITCH INLET CATCHBASIN GRATES TO BE PER OPSD 403.010.
 - ADJUSTMENT UNITS FOR STORM STRUCTURES TO BE IN ACCORDANCE WITH OPSD 704.011 OR 704.011.
 - STORM SEWERS AND SERVICES TO HAVE MINIMUM 1.4m COVER TO TOP OF PIPE, WHERE COVER TO TOP OF PIPE IS DEFICIENT, CONTRACTOR SHALL CONTACT DESIGN ENGINEER FOR "SEWER PIPE INSULATION DETAIL".
 - STORM SEWERS AND SERVICES TO HAVE MINIMUM 1.2m COVER. WHERE COVER OVER SERVICES IS DEFICIENT, THE CONTRACTOR SHALL LONGITUDINALLY CENTER OVER THE PIPE, PLASTISPAN H.D. BELOW GRADE RIGID INSULATION OR APPROVED EQUIVALENT, WITH OVERLAPPING JOINTS. INSULATION TO BE 1950mm WIDE AND 75mm THICK.
 - CONTRACTOR RESPONSIBLE FOR TESTING OF STORM SEWERS IN ACCORDANCE WITH OPSD 410.
 - QOS MANUFACTURER TO PROVIDE WRITTEN CERTIFICATION OF THE INSTALLATION TO THE ENGINEER AND THE CITY.
 - FLOW CONTROL ROOF DRAINS TO BE ZURN MODEL ZCF130 - SINGLE NOTCH (9.05 lpm/cm of head) OR APPROVED EQUIVALENT.
- SANITARY SEWERS**
 - PIPE BEDDING FOR RIGID PIPE TO BE CLASS "B" AS PER OPSD 802.030. PIPE BEDDING FOR FLEXIBLE PIPE TO BE AS PER OPSD 802.010. BEDDING MATERIAL AND COVER MATERIAL TO BE GRAN. "A" TRENCH BACKFILL TO BE NATIVE MATERIAL REPLACED IN 300mm LIFTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.
 - SANITARY SEWERS GREATER THAN 150mm SHALL BE POLYVINYL CHLORIDE (PVC) PIPE DR35 ASTM-D3034 WITH INTEGRAL BELL AND SPIGOT UTILIZING FLEXIBLE ELASTOMERIC SEALS.
 - MANHOLES TO BE 1200mm DIAMETER PRECAST WITH ALUMINIUM STEPS AT 300mm CENTRES AS PER OPSD 701.010.
 - MANHOLES TO BE BENCHED PER OPSD 701.021.
 - SANITARY MANHOLE LIDS TO BE PER OPSD 401.010 - TYPE 'A'
 - MANHOLE FRAMES, CASTINGS AND LIDS TO BE QUALITY GREY IRON ASTM A48 CLASS 30B.
 - ADJUSTMENT UNITS FOR SANITARY STRUCTURES TO BE IN ACCORDANCE WITH OPSD 704.010 OR 704.011.
 - FACTORY FABRICATED WYES SHALL BE USED FOR ALL SANITARY SERVICE CONNECTIONS.
 - SANITARY SEWERS AND SERVICES TO HAVE MINIMUM 1.2m COVER TO TOP OF PIPE, WHERE COVER TO TOP OF PIPE IS DEFICIENT, CONTRACTOR SHALL CONTACT DESIGN ENGINEER FOR "SEWER PIPE INSULATION DETAIL".
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 - PVC FORCEMAIN SHALL HAVE TWO STRANDED COPPER, AW8 TRACER WIRE STRAPPED TO TOP AT 5 METRE INTERVALS.
 - CONTRACTOR RESPONSIBLE FOR TESTING OF SANITARY SEWERS IN ACCORDANCE WITH OPSD 410.
- WATERMAINS**
 - PIPE BEDDING AND COVER MATERIAL FOR WATERMAINS AND SERVICES TO BE INSTALLED AS PER CITY OF HAMILTON STANDARD DRAWING No. WM-200.01 (CONCRETE AND PVC), AND WM-200.02 (DUCTILE IRON). BOTH BEDDING AND COVER MATERIAL TO BE GRAN. "A" FOR WATERMAINS AND SERVICES GREATER THAN 50mm AND GRANULAR "D" FOR SERVICES 50mm AND SMALLER. TRENCH BACKFILL TO BE NATIVE MATERIAL REPLACED IN 300mm LIFTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.
 - ALL MATERIALS AND CONSTRUCTION METHODS MUST CORRESPOND TO THE CURRENT CITY OF HAMILTON STANDARDS.
 - FOR SERVICES GREATER THAN 50mm, THE PROPOSED WATER SERVICE BOTH WITHIN THE ROAD ALLOWANCE AND ON PRIVATE PROPERTY MAY EITHER BE DUCTILE IRON (CLASS 52), COPPER, OR PVC RATED AT MINIMUM WORKING PRESSURE OF 160 PSI (DR18). SERVICES 50mm AND LESS MUST BE COPPER WITHIN THE ROAD ALLOWANCE, HOWEVER, PVC OR AN ALTERNATE MATERIAL APPROVED FOR USE UNDER THE ONTARIO BUILDING CODE MAY BE USED ON PRIVATE PROPERTY.
 - PVC WATER MAIN/SERVICE MATERIAL, CATHODIC PROTECTION, TRACER WIRE ETC. MUST BE AS PER FORM 400.
 - MAIN STOPS, CURB STOPS AND COUPLINGS SHALL BE AWMA C-800 COPPER TO COPPER FLANGED OR COMPRESSION CONNECTION OR APPROVED EQUIVALENT.
 - A MINIMUM HORIZONTAL SEPARATION OF 2.5m IS TO BE MAINTAINED BETWEEN SEWERS AND WATERMAIN, WHERE THE WATERMAIN CROSSES OVER THE SEWER. 0.25m MINIMUM VERTICAL SEPARATION IS TO BE MAINTAINED PER CITY OF HAMILTON STANDARDS.
 - ALL WATERMAINS AND SERVICES TO HAVE MINIMUM 1.6m COVER TO TOP OF PIPE, WHERE COVER OVER SERVICES IS DEFICIENT, THE CONTRACTOR SHALL LONGITUDINALLY CENTER OVER THE PIPE, PLASTISPAN H.D. BELOW GRADE RIGID INSULATION OR APPROVED EQUIVALENT, WITH OVERLAPPING JOINTS. INSULATION TO BE 1950mm WIDE AND 75mm THICK.
 - CITY OF HAMILTON TO SUPPLY AND INSTALL WATER METER BY APPOINTMENT UNDER THE WATER METER PERMIT. CONTRACTOR TO INSTALL METER SPACER (OBTAINED FROM CITY), ALL VALVES, PIPING AND REMOVE METER READOUT AT LOCATION ON BUILDING EXTERIOR OR ACCEPTABLE TO MUNICIPALITY. INTERNAL METERS TO BE INSTALLED AT FLOOR GRADE AS PER WM-210.
 - AS A FIRE SERVICE IS PROPOSED TO THE BUILDING, A BACKFLOW PREVENTOR MAY BE REQUIRED IN ACCORDANCE WITH THE ONTARIO BUILDING CODE. IF A BACKFLOW PREVENTOR IS REQUIRED IT MUST BE LOCATED AT THE SERVICE POINT OF ENTRY TO THE BUILDING.
- EROSION AND SEDIMENT CONTROL**
 - CONTRACTOR TO INSTALL EROSION CONTROL MEASURES AS SHOWN PRIOR TO CONSTRUCTION AND MAINTAIN IN GOOD CONDITION UNTIL CONSTRUCTION IS COMPLETED AND VEGETATIVE COVER IS ESTABLISHED. BUT PRIOR TO FENCE BECOMING OVERGROWN. ENGINEER'S REPRESENTATIVE TO DETERMINE IF VEGETATION HAS REACHED THE CRITICAL POINT AND WILL THEN INSTRUCT CONTRACTOR TO REMOVE FENCE.
 - ALL EROSION AND SEDIMENT CONTROL MEASURES (TEMPORARY SEDIMENT CONTROL, FENCES, STORM SEWER BULKHEADS, ROCK CHECK DAMS, WORK LIMIT FENCES, SEDIMENT BASIN, ETC.) MUST BE INSTALLED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
 - TEMPORARY VEHICLE TRACKING CONTROLS TO BE CONSTRUCTED AS PER REQUIREMENTS IN "EROSION & SEDIMENT CONTROL GUIDELINE FOR URBAN CONSTRUCTION" DATED DECEMBER 2002. AT ACCESS POINTS, CONTRACTOR SHALL MAINTAIN THESE AS REQUIRED AND AS DIRECTED BY THE CITY ENGINEER.
 - OVERLAND SHEET FLOW EROSION PROTECTION SHALL BE AS PER OPSD 219.130. IF EXCESSIVE SEDIMENT BUILDUP/BLOCKAGE OCCURS (VISUAL INSPECTION) THEN REPLACEMENT OF THE FILTER CLOTH IS REQUIRED.
 - CATCH BASIN SEDIMENT CONTROL DEVICE, I.E. "SILTSACK" BY ACF ENVIRONMENT OR APPROVED EQUIVALENT, TO BE PLACED AS PER MANUFACTURER'S RECOMMENDATIONS. (SEE DETAIL). REGULAR MAINTENANCE IS REQUIRED ("SILTSACK" SUMPS SHALL BE INSPECTED FOR SEDIMENT ACCUMULATION AND FILTER CLOTH BLOCKAGE ON A WEEKLY BASIS). THESE SEDIMENT TRAPS ARE NOT TO BE REMOVED UNTIL THE CURBS AND THE BOULEVARD ARE SODDED. SEDIMENT TRAPS SHALL ALSO BE PLACED AS PER DETAIL AT ALL CATCH BASIN LOCATIONS IN AREAS TO BE VEGETATED AND MAINTAINED UNTIL GROUND COVER IS ESTABLISHED.
- GRADING NOTES**
 - ANY CHANGES IN GRADES AND CATCH BASINS REQUIRE THE APPROVAL OF THE DIRECTOR OF DEVELOPMENT ENGINEERS, PLANNING AND ECONOMIC DEVELOPMENT DEPARTMENT.
 - FILTER FABRIC TO BE TERRAFIX 270R OR APPROVED EQUAL.
 - MAXIMUM GRASSED SLOPE TO BE 3:1. SLOPES GREATER THAN 3:1 TO BE LANDSCAPED WITH LOW MAINTENANCE GROUND COVER.
 - MINIMUM ASPHALT GRADE TO BE 1.0%, MINIMUM CUTTERLINE GRADE TO BE 0.5%.
 - CONTRACTOR TO MATCH EXISTING GRADES AT PROPERTY LINE UNLESS OTHERWISE NOTED.
 - ALL DRIVEWAYS FROM PROPERTY LINES FOR THE FIRST 7.5m SHALL BE WITHIN 5% MAX. GRADE, THEREAFTER, ALL DRIVEWAYS SHALL BE WITHIN 10% MAXIMUM GRADES.
 - PRIOR TO REMOVING ANY EXCESS SOLS FROM THE SITE, CONTRACTOR TO CONTACT THE ARCHITECT FOR DIRECTION ON CREATING EARTHEN BERMS ON-SITE.
 - ALL LANDSCAPED AREAS ARE TO HAVE A MINIMUM 2.0% SLOPE.
- RESTORATIONS**
 - ALL RESTORATIONS TO CONFORM TO HAMILTON FORM 300.30.
 - RESTORATIONS OF ROAD OVER UTILITY CUTS IN HAMILTON TO BE AS PER STANDARD DRAWINGS RD-100.01 AND RD-100.02, WITH GRANULAR "A" BEDDING. THE CONTRACTOR MUST BE COORDINATED WITH THE CITY OF HAMILTON AND MAKE AND MAINTAIN THE TEMPORARY ROAD REPAIR OVER THE CUT, WITH PERMANENT REPAIR BEING MADE BY THE CITY CONTRACTOR AT THE OWNER/OWNER'S CONTRACTOR COST.
 - ALL BOULEVARDS TO BE RESTORED WITH #1 NURSERY SOD ON A MINIMUM 100mm OF SELECT TOPSOIL.
 - CONTRACTOR SHALL CO-ORDINATE THE REMOVAL AND REINSTALLATION OF EXISTING PARKING METERS AND/OR STREET SIGNS WITH THE CITY OF HAMILTON TRAFFIC DEPARTMENT.
 - ALL FENCES AFFECTED BY CONSTRUCTION SHALL BE REMOVED, TEMPORARILY RELOCATED AND/OR STOCKPILED IF APPROVED BY THE ENGINEER, AND REINSTATED UPON COMPLETION OF CONSTRUCTION.
 - SEWER ABANDONMENT NOTES**
 - ALL EXISTING UNUSED SEWERS MUST BE PROPERLY ABANDONED, BY EITHER COMPLETELY REMOVING THOSE FROM THE GROUND, OR BY CROUING EITHER END OF THE SEWER WITH A MINIMUM 300mm THICK CONCRETE PLUG.
 - UNUSED MAINTENANCE HOLES AND CATCH BASINS MUST BE COMPLETELY REMOVED.
 - OPENING IN MAINTENANCE HOLES WHERE SERVICES WERE REMOVED MUST BE BRICKED AND PARGED.
- EROSION AND SEDIMENT CONTROL**
 - CONTRACTOR TO INSTALL EROSION CONTROL MEASURES AS SHOWN PRIOR TO CONSTRUCTION AND MAINTAIN IN GOOD CONDITION UNTIL CONSTRUCTION IS COMPLETED AND VEGETATIVE COVER IS ESTABLISHED. BUT PRIOR TO FENCE BECOMING OVERGROWN. ENGINEER'S REPRESENTATIVE TO DETERMINE IF VEGETATION HAS REACHED THE CRITICAL POINT AND WILL THEN INSTRUCT CONTRACTOR TO REMOVE FENCE.
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MAINTENANCE SCHEDULE
 -INSPECT AFTER EVERY MAJOR RAIN EVENT.
 -INSPECT EVERY 3 WEEKS MINIMUM.
 -SILTSACK SHOULD NEVER BE OVER HALF FULL.
 -FULL BAG CAN BE REMOVED, DUMPED, CLEANED AND REUSED (TO REMOVE INSERT 25mm REBAR INTO REMOVAL FLAP POCKETS)
 (TO DUMP INSERT 25mm REBAR INTO BOTH DUMPING STRAPS)



GEODETIC BM ELEV. = m
SITE BENCHMARK ELEV. = 209.445m
 MONUMENT 07220200009, ROUND IRON BAR WITH BRASS CAP, LOCATION IN HAMILTON IN ELMAR PARK WEST OF THE INTERSECTION OF BRIGADE DRIVE & EMPEROR AVENUE 30m WEST OF THE CENTRELINE OF BRIGADE DRIVE. CGVD-1928-1978

NOTE TO CONTRACTOR :
 DO NOT SCALE DRAWINGS.
 CONTRACTORS MUST CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
 ALL DRAWINGS REMAIN THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REPRODUCED OR REUSED WITHOUT THE ENGINEER'S WRITTEN PERMISSION.
 THE OWNER/ARCHITECT/CONTRACTOR IS ADVISED THAT M.T.E. CONSULTANTS INC. CANNOT CERTIFY ANY COMPONENT OF THE SITE WORKS NOT INSPECTED DURING CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO NOTIFY M.T.E. CONSULTANTS INC. PRIOR TO COMMENCEMENT OF CONSTRUCTION TO ARRANGE FOR INSPECTION.

NOTE:
 1. PROPERTY-LINE IS APPROXIMATE ONLY.
 2. EXISTING TOPOGRAPHICAL INFORMATION PROVIDED BY A.T. McLAREN LIMITED AND MTE OLS.
 3. UNDERGROUND UTILITY LOCATES ARE PROVIDED BY FRONTIER UTILITY LOCATING SERVICES INC. INVERTS DENOTED WITH "H" ARE TAKEN FROM AS-RECORDED PLAN AND PROFILE DRAWINGS COMPLETED BY THE CITY OF HAMILTON, TRANSPORTATION, OPERATIONS AND ENVIRONMENT DIVISION AND ARE CONSIDERED APPROXIMATE ONLY. CONTRACTOR TO FIELD VERIFY AND REPORT ANY DISCREPANCIES TO ENGINEER.
 4. THIS PLAN IS PART OF A SET OF PLANS WHICH COMPRISE OF THE FOLLOWING: C1.1, C2.1, C2.2, C2.3 AND FUNCTIONAL SERVING & PRELIMINARY SWM REPORT.

8.		
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1.	ISSUED FOR ZBA/OPA APPROVAL	MAY 2021-05-28
No.	REVISION	BY YYYY-MM-DD

MTE
 Engineers, Scientists, Surveyors
 905-639-2552

SRM ARCHITECTS INC.
 279 KING STREET WEST SUITE 200 KITCHENER, ON
HAMILTON EAST KIWANIS NON-PROFIT HOUSING RESIDENTIAL DEVELOPMENT
 1540 UPPER WENTWORTH STR HAMILTON, ON
NOTES AND DETAILS PLAN

Project Manager	M.GOUSIC	Project No.	48328-100
Design By	EXK/SDU	Checked By	GPB/MJG
Drawn By	DXC/SDU	Checked By	GPB/MJG
Surveyed By	OTHERS	Drawing No.	
Date	May, 21/21	C2.3	
Scale	1:200	Sheet 4 of 4	