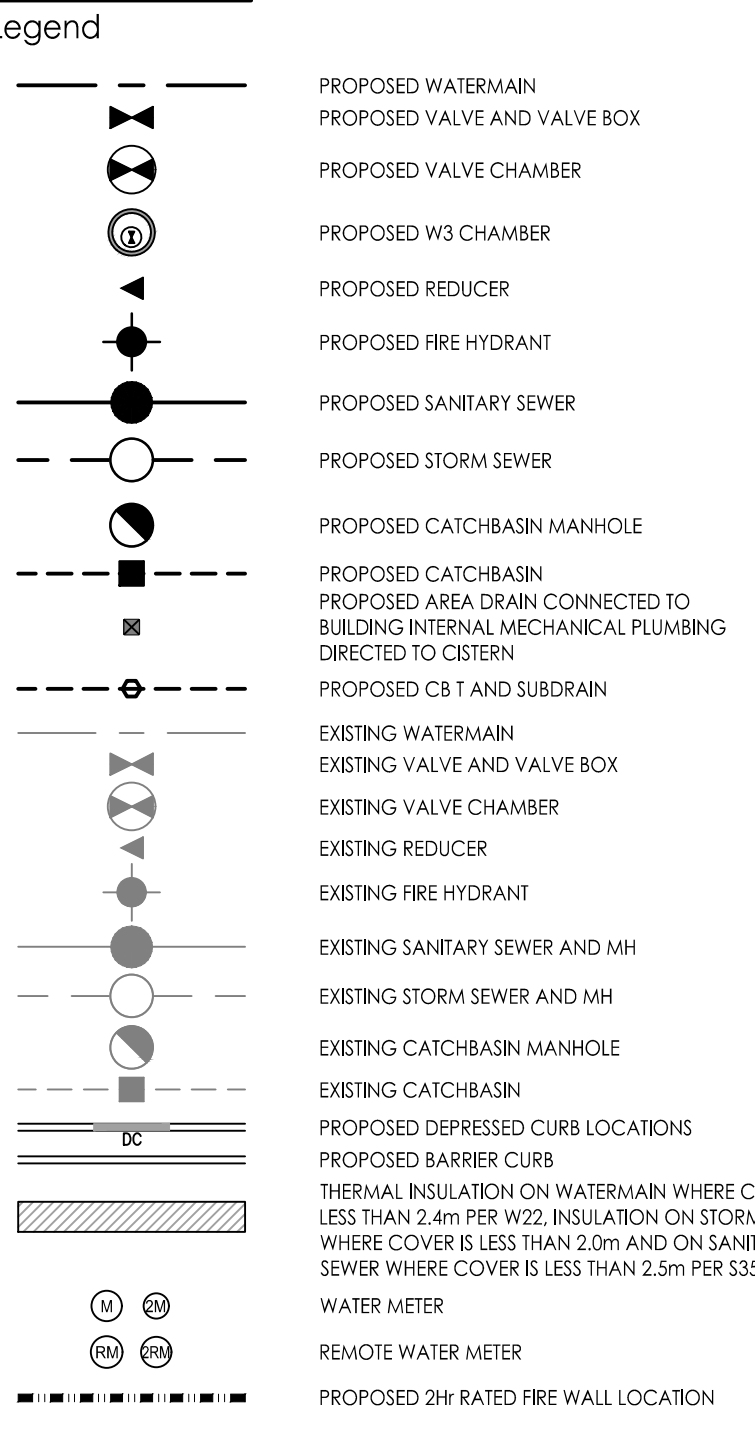
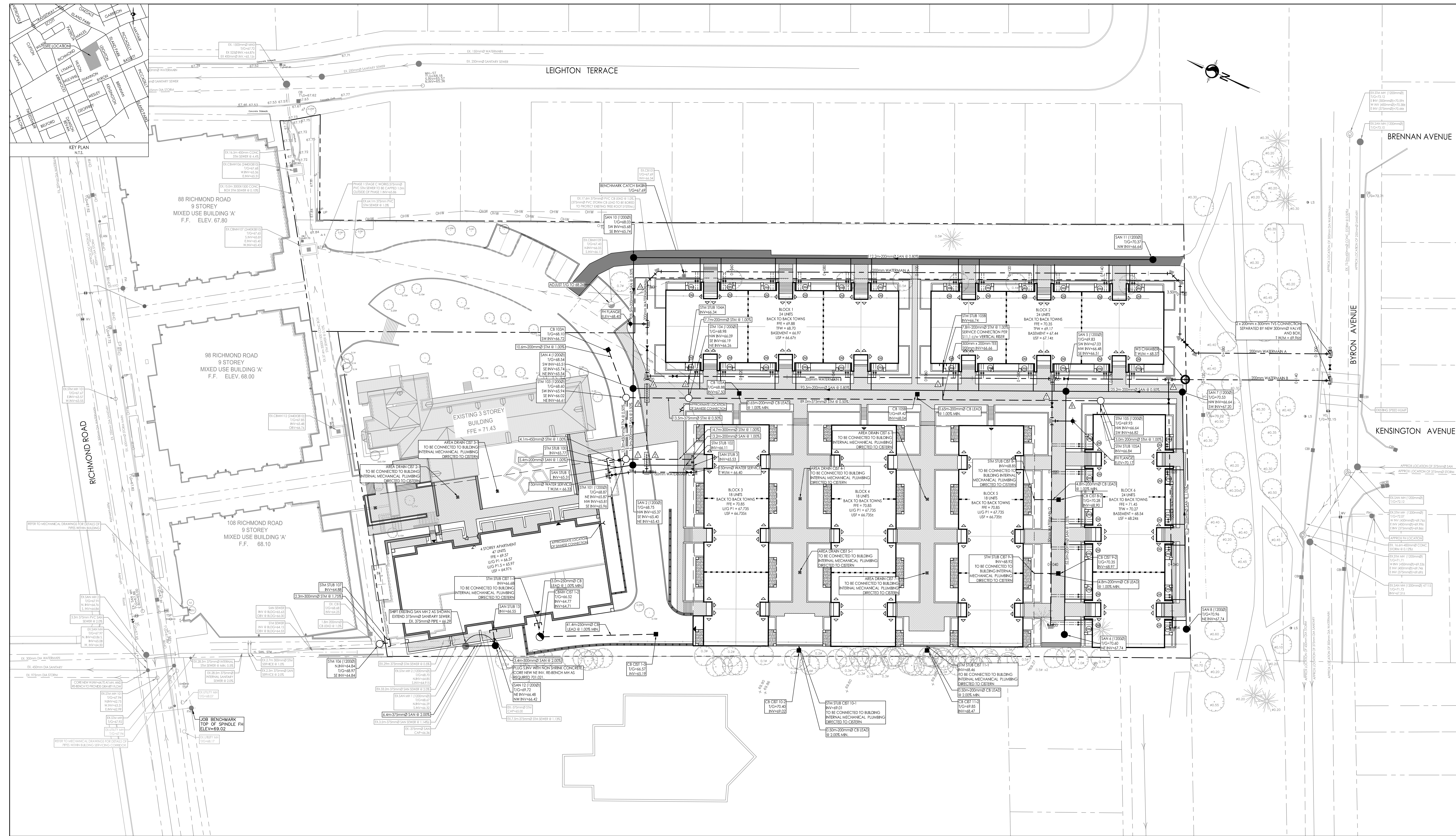


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The Contractor shall verify and be responsible for all dimensions. DO NOT SCALE THE DRAWING. Any errors or omissions shall be reported to the Engineer immediately. The Contractor shall be responsible for the accuracy of the information provided. Reproduction or use for any purpose other than that authorized by Stantec is prohibited.



Notes

1. ALL CATCH BASINS AND TRENCH DRAINS TO BE CONNECTED TO INTERNAL PLUMBING AND COLLECTED IN STORM WATER MANAGEMENT SYSTEM. RELOCATION OF EXISTING TRENCH DRAINS BY THE STRUCTURAL CONSULTANT. GROUND PUMP AND OVERFLOW SYSTEM SHALL BE BY MECHANICAL CONSULTANT.
2. FINAL METERS AND METER LOCATIONS TO BE CONFIRMED BY MECHANICAL CONSULTANT.
3. THE LOCATION AND BRANDS OF SEWERS, WATERMANS AND UTILITIES IS APPROXIMATE ONLY AND THE EXACT LOCATION AND BRANDS SHOULD BE DETERMINED BY CONSULTING THE MUNICIPAL AUTHORITIES AND UTILITY COMPANIES CONCERNED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND THE REPAIR/REPLACEMENT OF ANY NECESSARY FACILITIES CAUSED BY THE APPROVED ENGINEERING AND REGULATIONS. ANY DISCREPANCY WITH THE INFORMATION SHOWN ON THESE PLANS SHALL BE REPORTED TO THE ENGINEER PRIOR TO COMMENCING WORK CONSTRUCTION.
4. INTERNAL PLUMBING AND SWMP PIPES TO BE DESIGNED BY THE MECHANICAL CONSULTANT. STORMWATER MANAGEMENT TO BE PROVIDED THROUGH A SEWER CATCHER LOCATED AT THE UNDERGROUND PARKING.
5. SEWER PIPES SHALL BE INSTALLED IN THE MECHANICAL COLLECTION SYSTEM.
6. SWMP PIPES REQUIRED TO DISCHARGE UNDERGROUND PARKING LEVELS TO INTERNAL SANITARY SEWER. REFER TO MECHANICAL DRAWINGS FOR DETAILS.
7. FLOOR DRAINS LOCATED IN PARKING GARAGE TO BE CONNECTED TO BUILDING INTERNAL SANITARY SEWER.
8. UP TO BE CONFIRMED BY THE STRUCTURAL CONSULTANT. SWMP PUMP REQUIRED TO DISCHARGE FLOODHOLD DAMAGE SYSTEM. REFER TO MECHANICAL DRAWINGS FOR DETAILS.



200mmØ WATERMAIN TABLE A

STATION	FINISHED GRADE	TOP W/M	ITEM
0+00	68.60	66.20	200mm x 150mm TEE
0+05	68.82	66.40	40° VERTICAL BEND DEFLECT PER WS2.3
0+10	68.80	66.90	40° VERTICAL BEND DEFLECT PER WS2.3
0+15	68.76	66.90	40° VERTICAL BEND DEFLECT PER WS2.3
0+20	68.72	66.20	40° VERTICAL BEND DEFLECT PER WS2.3
0+25	68.61	66.20	TOP OF PIPE
0+30.71	68.40	66.20	200mm x 200mm TEE
0+32.7	68.48	66.20	200mm VALVE AND BOX
0+37.8	68.67	66.20	FREE HYDRANT
0+41.23	68.01	66.10	45° HORIZONTAL BEND
0+44.64	67.92	65.20	45° HORIZONTAL BEND
0+50	68.19	65.70	TOP OF PIPE
0+55	68.63	66.20	TOP OF PIPE
0+60	68.44	66.40	TOP OF PIPE
0+65	69.19	66.70	TOP OF PIPE
0+70	69.85	67.40	TOP OF PIPE
0+75.68	70.34	68.10	45° HORIZONTAL BEND
0+81.20	70.80	68.40	TOP OF PIPE
0+87.20	70.81	68.10	45° HORIZONTAL BEND
0+93.20	70.82	68.40	200mm VALVE AND BOX
0+99.20	70.87	68.40	45° HORIZONTAL BEND
0+105	71.34	68.80	TOP OF PIPE
0+110	72.20	69.80	TOP OF PIPE
0+115.20	72.32	69.20	200mm VALVE AND BOX
0+120	72.34	69.40	200mm x 300mm TEE

150mmØ WATERMAIN TABLE C

STATION	FINISHED GRADE	TOP W/M	ITEM
0+00	69.136	66.736	150mmØ CAP AND THURST BLOCK
0+05	69.07	66.670	150mm VALVE AND BOX
0+08.10	68.59	66.190	150mm x 200mm TEE
0+17.30	70.14	67.740	150mm VALVE AND BOX
0+19.30	70.60	68.200	150mmØ CAP AND THURST BLOCK

150mmØ WATERMAIN TABLE D

STATION	FINISHED GRADE	TOP W/M	ITEM
0+00	69.81	67.430	200mm x 150mm TEE
0+05	69.79	67.390	150mm VALVE AND BOX
0+10	70.02	67.420	FREE HYDRANT
0+15	70.38	67.980	TOP OF PIPE
0+20	70.44	68.040	TOP OF PIPE
0+25	70.50	68.100	150mmØ CAP AND THURST BLOCK

200mmØ WATERMAIN TABLE E

STATION	FINISHED GRADE	TOP W/M	ITEM
0+00	68.606	66.206	200mm x 150mm TEE
0+05.75	68.88	66.480	200mm VALVE AND BOX
0+10	69.18	66.780	TOP OF PIPE
0+15	69.36	66.960	TOP OF PIPE
0+20	69.49	67.090	TOP OF PIPE
0+25	69.75	67.350	TOP OF PIPE
0+30.23	69.81	67.410	200mm x 250mm TEE
0+35.27	69.86	67.460	250mm VALVE AND BOX
0+40	69.98	67.580	TOP OF PIPE
0+45	70.20	67.800	TOP OF PIPE
0+50.21	70.31	68.100	200mm x 300mm TEE
0+55	71.01	68.610	TOP OF PIPE
0+60	72.00	69.600	TOP OF PIPE
0+65.20	72.31	69.920	250mm VALVE AND BOX
0+70.20	72.32	69.920	200mm x 300mm TEE

SEWER AND WATERMAIN CROSSING TABLE

CROSSING	SEWER	STM Ø	SAN Ø	WTR Ø	WTR Ø
1	61.98	66.28	65.84	66.64	
2	62.01	66.31	65.43	66.03	66.81
3	62.03	66.41	65.03	66.70	
4	62.07	66.45	65.77	65.97	66.95
5	62.22	66.47	65.84	66.04	
6	62.68	66.89	66.27	66.47	
7	62.39	66.89	66.45	66.65	67.39
8	62.58	67.26	66.60	66.90	
9	62.63	67.26	66.67	66.87	67.88
10	62.63	66.43	65.44	65.84	65.53

BRACKETS DENOTED ABOVE VALUE WITH CONCRETE PIPE THICKNESS

GENERAL NOTES AND SPECIFICATIONS

1. ALL MATERIALS AND CONSTRUCTION METHODS TO BE IN ACCORDANCE WITH OPS AND CITY OF OTTAWA STANDARD SPECIFICATIONS AND DRAWINGS AND OPS SUPPLEMENT. ONTARIO PROVINCIAL STANDARDS WILL APPLY WHERE THE CITY STANDARDS ARE AVAILABLE.
2. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED AND BEAR COST OF SAME INCLUDING WATER PERMITS AND ASSOCIATED COSTS.
3. SERVICE AND UTILTY LOCATIONS ARE APPROXIMATE. CONTRACTOR TO VERIFY LOCATION AND DEPTH OF EXISTING SERVICES AND UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING LOCATIONS FROM ALL UTILTY COMPANIES AND EXISTING UTILITIES PRIOR TO EXCAVATION. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTION AND REINSTATEMENT.
4. CONTRACTOR TO CONDUCT A PRELIMINARY SURVEY TO DETERMINE CONSTRUCTION AND RECORDING THE ENGINEER OF ANY DISCREPANCY FROM THE AS BUILT INFORMATION REFERENCED ON THE DRAWINGS.
5. ALL UTILITIES ARE TO BE PROTECTED TO EQUAL OR BETTER CONDITION TO THE SATISFACTION OF THE ENGINEER & THE CITY. PAYMENT FOR PROTECTION OF SERVICE AND UTILTY CUTS SHALL BE IN ACCORDANCE WITH OPS 309.010 AND OPS 310.
6. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATION FOR CONSTRUCTION PROJECTS. THE GENERAL CONTRACTOR SHALL BE DEEMED TO BE THE CONTRACTOR AS DENIED IN THE ACT.
7. THE CONTRACTOR SHALL SUBMIT A PROTECTION AND IDENTIFICATION CONTROL PLAN THAT WILL PREVENT BEST MANAGEMENT PRACTICES TO PROTECT PROTECTION FOR PROTECTING EXISTING OR EXCAVATED EXISTING CONSTRUCTION ACTIVITIES. THE PLAN SHALL INCLUDE BUT NOT BE LIMITED TO CATCH BASIN INSERTS, STRAIN LAYER CHECK CHAINS AND SIGNIFICANT CONTROL AROUND ALL EXISTING AREA. DRAWINGS SHALL BE PROVIDED TO SUBMITTALS.
8. SEE PLAN PREPARED BY PROJECT 1 STUDIO DRAWING SP-01. REV. 4. PROJECT NAME: 114 RICHMOND ROAD, OTTAWA. CON. PROJECT NO: 0511-2004-0427
9. TOPOGRAPHIC SURVEY SUPPLIED BY ANNE, OTSUIJAN, VOLLEBEEK INC. PROJECT NO: 2578-25. TOPOGRAPHICAL PLAN OF 114 RICHMOND ROAD, CITY OF OTTAWA.
10. REFER TO LANDSCAPE ARCHITECTURE PLAN FOR ALL LANDSCAPING FEATURES (E.G. TREES, WALKWAYS, PARK DETAILS, NOISE BARRIERS, FENCE LINE ETC.).
11. GEOTECHNICAL INVESTIGATION: PROPOSED RESIDENTIAL DEVELOPMENT 114 RICHMOND ROAD, OTTAWA, ONTARIO. PREPARED BY: PATRICK GROUP, DATED FEBRUARY 2020. REPORT NO: PG21-17. GEOTECHNICAL INFORMATION SHOWN ON THESE DRAWINGS WAS NOT OBTAINED FROM THE ORIGINAL REPORT. REFER TO ORIGINAL GEOTECHNICAL REPORT FOR ADDITIONAL DETAILS AND TO VERIFY ASSUMPTIONS MADE HEREIN.
12. STREET LIGHTING BY OTHERS TO CITY OF OTTAWA STANDARDS.
13. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE STATED. DIMENSIONS SHALL BE CHECKED AND VERIFIED THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCY TO BE REPORTED IMMEDIATELY TO THE ENGINEER.
14. THERE WILL BE NO SUBSTITUTION OF MATERIALS UNLESS PRIOR WRITTEN APPROVAL BY THE CONTRACT ADMINISTRATOR AND DIRECTOR OF ENGINEERING HAS BEEN OBTAINED.
15. HERITAGE OBSERVATIONS LIST OF THE ONTARIO MINISTRY OF CULTURE TO BE NOTIFIED BY DEEPLY BURIED ARCHAEOLOGICAL REMAINS ARE FOUND ON THE PROPERTY DURING TO CONSTRUCTION.

ROADWORKS

1. ALL TOPSOIL AND ORGANIC MATERIAL TO BE STRIPPED FROM WITHIN THE FULL RIGHT OF WAY PRIOR TO CONSTRUCTION.
1. SUB-CRACKS AND SOFT AREAS TO BE FILLED WITH GRANULAR TYPE C COMPACTED TO 0.30% LAYERS.
1. ALL GRANULAR FILL OR ROAD SHALL BE COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR MAXIMUM DRY DENSITY (SPH02).
1. ROAD SUBGRANULAR SHALL BE CONSTRUCTED AS PER CITY OF OTTAWA STANDARD R1.
1. ROAD CURBS SHALL NOT BE PLACED UNTIL THE VIDEO INSPECTION OF SEWERS & NECESSARY REPAIRS HAVE BEEN CARRIED OUT TO THE SATISFACTION OF THE CONSULTANT.
1. CONTRACTOR TO OBTAIN A ROAD OCCUPANCY PERMIT 48 HOURS PRIOR TO COMMENCING ANY WORK WITHIN THE MUNICIPAL ROAD ALLOWANCE IF REQUIRED BY THE MUNICIPALITY. ALL WORK ON THE MUNICIPAL RIGHT OF WAY AND EXISTINGS TO BE INSPECTED BY THE MUNICIPALITY PRIOR TO BACKFILLING.
1. PAYMENT REIMBURSEMENT FOR SERVICE AND UTILTY CUTS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD T10, AND OPS 309.010 AND OPS 310.

CONCRETE CURBS SHALL BE CONSTRUCTED AS PER CITY STANDARD SCL1 AND SCL3 (BARRIER OR MOUNTAIN CURB AS SHOWN ON DRAWINGS).

CONCRETE SEWALS SHALL BE CONSTRUCTED AS PER CITY STANDARDS SCL1 AND SCL3.4

PAVEMENT CONSTRUCTION AS PER GEOTECHNICAL INVESTIGATION, PROPOSED RESIDENTIAL DEVELOPMENT 114 RICHMOND ROAD, OTTAWA, ONTARIO. PREPARED BY PATRICK GROUP, DATED FEBRUARY 2020. PROJECT NO: PG21-17.

PAVEMENT STRUCTURE - UNDERGROUND PARKING LEVEL

300mm POLYMER CONCRETE PAVEMENT (3% GRANULAR) CONCRETE WITH AIR ENTRAINMENT
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PAVEMENT STRUCTURE - CAR PARKING ONLY (OVERHEAD)

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