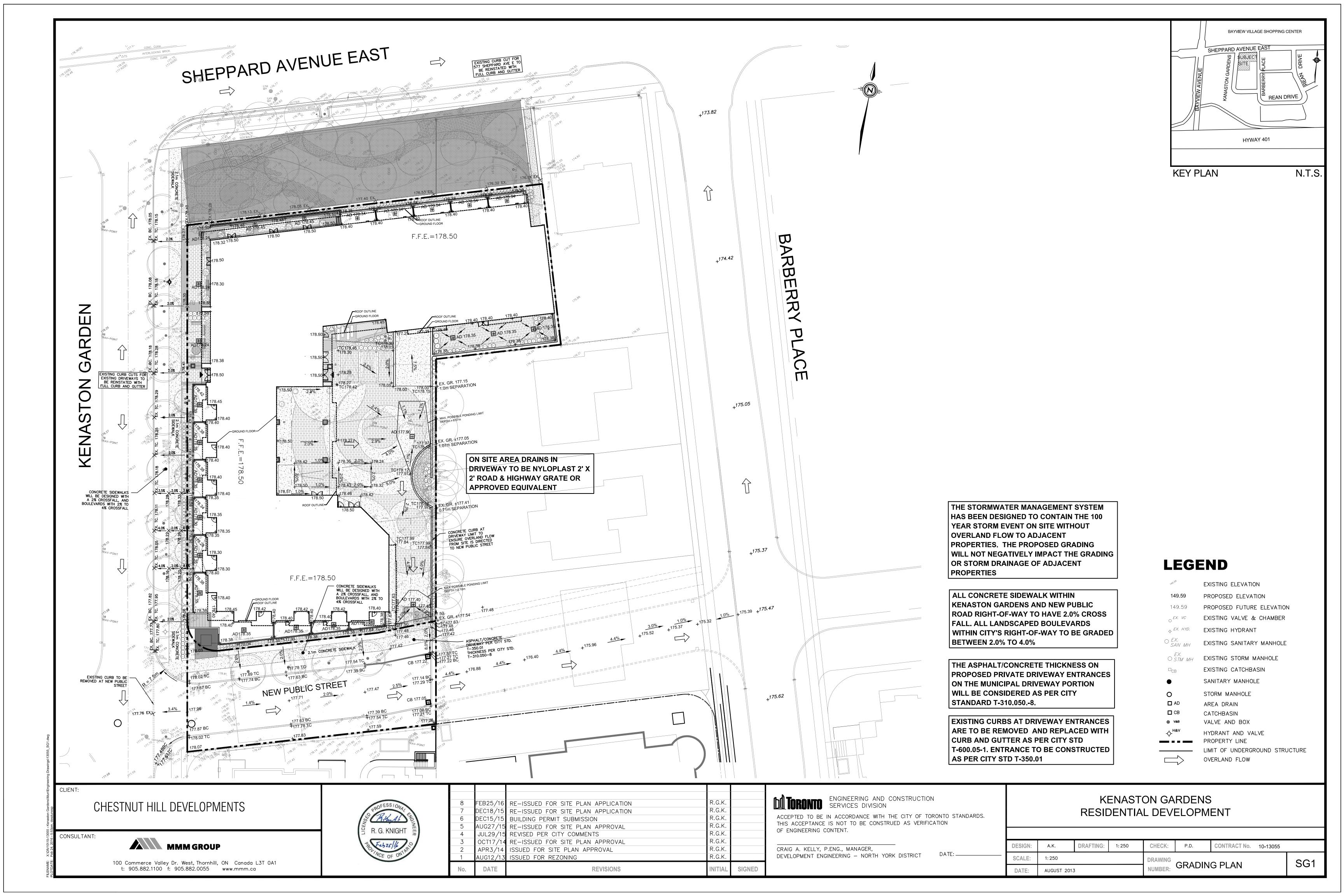
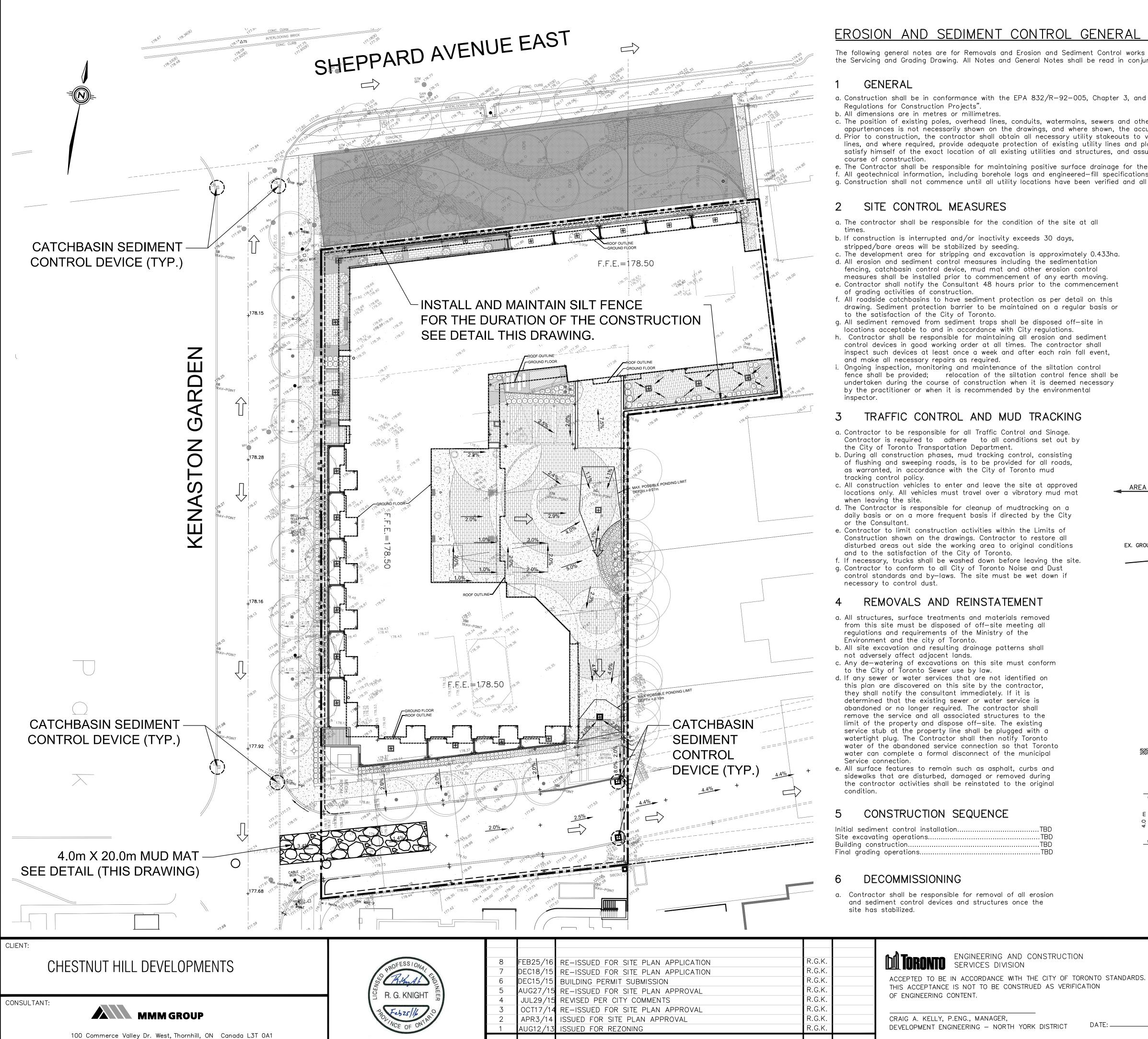


APPENDIX E







DATE

REVISIONS

SIGNED

t: 905.882.1100 f: 905.882.0055 www.mmm.ca

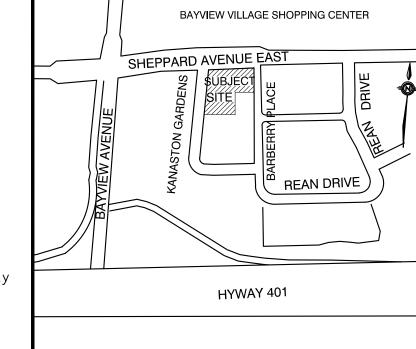
EROSION AND SEDIMENT CONTROL GENERAL NOTES

The following general notes are for Removals and Erosion and Sediment Control works only. Additional general notes are to be referenced from the Servicing and Grading Drawing. All Notes and General Notes shall be read in conjunction with the Contract Specifications.

- a. Construction shall be in conformance with the EPA 832/R-92-005, Chapter 3, and the "Ontario Occupational Health and Safety Act and
- c. The position of existing poles, overhead lines, conduits, watermains, sewers and other underground or aboveground utilities, structures and appurtenances is not necessarily shown on the drawings, and where shown, the accuracy of the position of such utilities is not guaranteed. d. Prior to construction, the contractor shall obtain all necessary utility stakeouts to verify the location of any Hydro, Bell, Cable TV or Gas utility lines, and where required, provide adequate protection of existing utility lines and plant. Before commencing construction, the contractor shall satisfy himself of the exact location of all existing utilities and structures, and assume all liability resulting from damage to them during the
- e. The Contractor shall be responsible for maintaining positive surface drainage for the duration of the construction period.
- f. All geotechnical information, including borehole logs and engineered—fill specifications, are to be obtained from the Geotechnical Consultant.

g. Construction shall not commence until all utility locations have been verified and all permits have been received.

- a. The contractor shall be responsible for the condition of the site at all
- c. The development area for stripping and excavation is approximately 0.433ha.
- measures shall be installed prior to commencement of any earth moving. e. Contractor shall notify the Consultant 48 hours prior to the commencement
- f. All roadside catchbasins to have sediment protection as per detail on this drawing. Sediment protection barrier to be maintained on a regular basis or
- locations acceptable to and in accordance with City regulations. h. Contractor shall be responsible for maintaining all erosion and sediment control devices in good working order at all times. The contractor shall inspect such devices at least once a week and after each rain fall event,
- Ongoing inspection, monitoring and maintenance of the siltation control fence shall be provided; relocation of the siltation control fence shall be undertaken during the course of construction when it is deemed necessary by the practitioner or when it is recommended by the environmental
- Contractor is required to adhere to all conditions set out by
- b. During all construction phases, mud tracking control, consisting of flushing and sweeping roads, is to be provided for all roads,
- locations only. All vehicles must travel over a vibratory mud mat
- daily basis or on a more frequent basis if directed by the City
- disturbed areas out side the working area to original conditions



KEY PLAN

N.T.S.

LEGEND

EXISTING ELEVATION PROPOSED ELEVATION PROPOSED FUTURE ELEVATION

EXISTING HYDRANT

EXISTING SANITARY MANHOLE

EXISTING STORM MANHOLE EXISTING CATCH BASIN

EXISTING VALVE & CHAMBER

SANITARY MANHOLE

STORM MANHOLE AREA DRAIN

CATCH BASIN VALVE AND BOX HYDRANT AND VALVE

PROPERTY LINE OVERLAND FLOW

SILTATION CONTROL FENCE CONTROL BARRIER

MUD MAT



N.T.S.

FILTER CLOTH TERRAFIX 270R OR APPROVED EQUAL

1. Inspection of sediment control measures for

CATCHBASIN SEDIMENT

AREA TO BE PROTECTED

CONTROL DEVICE

all catchbasins should be carried out immediately after

heavy rainfall and daily during prolonged rainfall events.

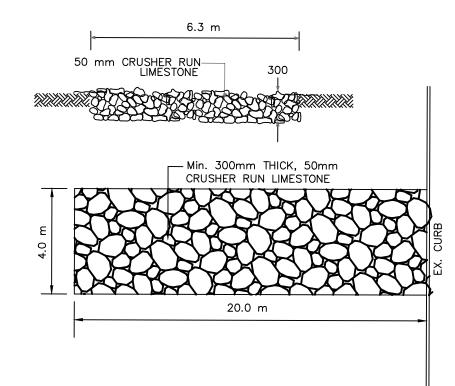
AREA UNDER CONSTRUCTION

1.20m SNOW FENCE TIED TO

T-BARS WITH #9 GAUGE WIRE

FILTER CLOTH (ENVIROFENCE WOVEN OR EQUAL) TIED TO SNOW FENCE

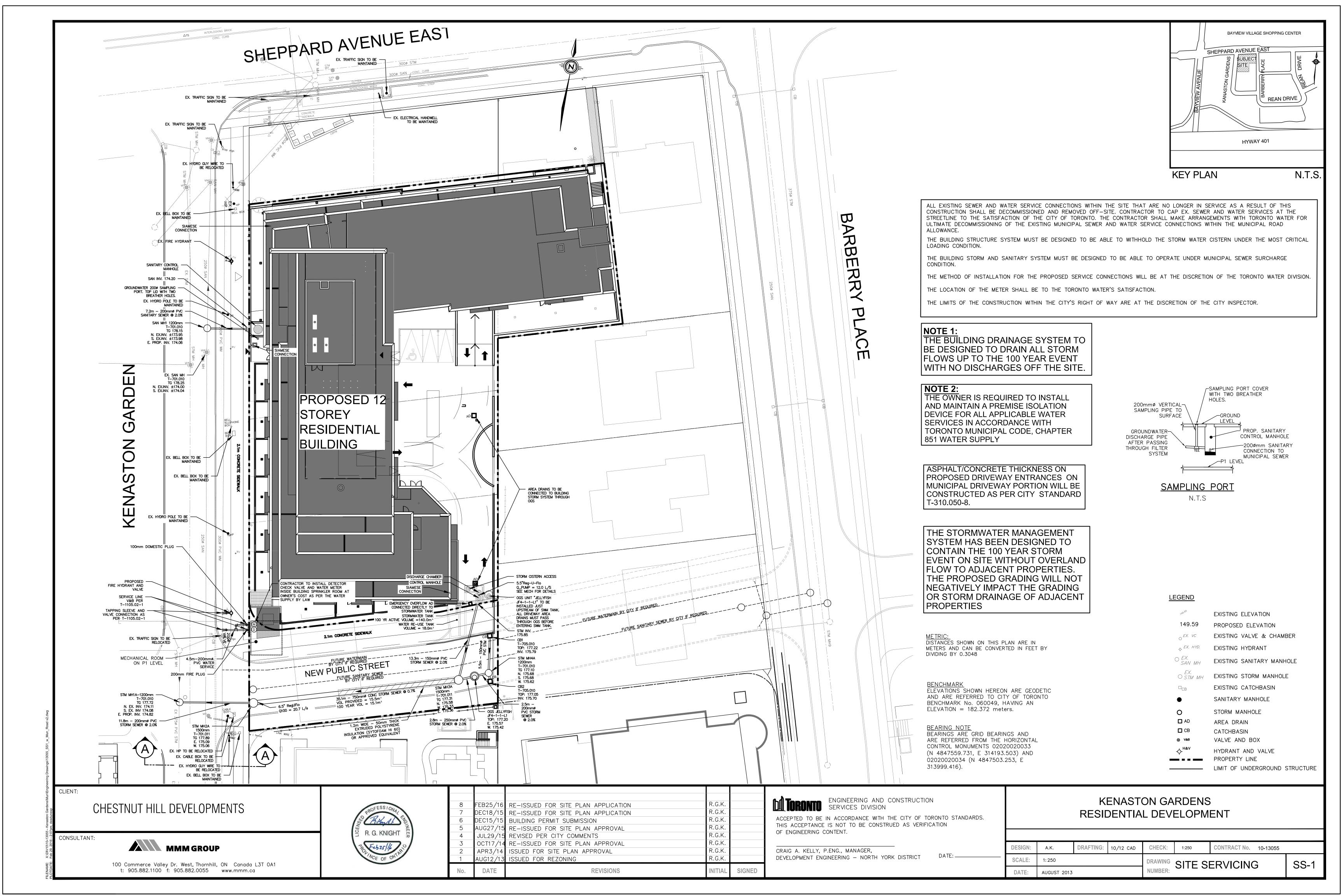
CLOTH TO BE BURIED



MUD MAT DETAIL

KENASTON GARDENS RESIDENTIAL DEVELOPMENT

CONTRACT No. 10-13055 1: 250 DRAWING EROSION AND SEDIENT SCALE: 1:250 ESC1 **CONTROL PLAN** DATE: DECEMBER 2015



GENERAL NOTES ALL WORK TO CONFORM TO THE LATEST CITY OF TORONTO STANDARD DRAWINGS AND SPECIFICATIONS AS WELL AS THE LATEST ONTARIO PROVINCIAL STANDARD DRAWINGS AND SPECIFICATIONS. ALL WORK TO BE COMPLETED IN ACCORDANCE WITH THE CURRENT "OCCUPATIONAL HEALTH AND SAFETY ACT". THE GENERAL CONTRACTOR SHALL BE DEEMED TO BE THAT CONSTRUCTOR AS DEFINED IN THE ACT. ALL TEMPORARY TRAFFIC CONTROL AND SIGNAGE DURING THE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT ONTARIO TRAFFIC MANUAL - BOOK 7 TEMPORARY FIELD CONDITIONS. ALL TRENCHES WITH EXISTING R.O.W SHALL BE BACKFILLED WITH UNSHRINKABLE FILL. WILL OBTAIN ALL NECESSARY ROAD OCCUPANCY PERMITS FROM THE CITY'S RIGHT-OF-WAY MANAGEMENT SECTION. CONTACT

- SINGLE WATER SERVICE CONNECTIONS SHALL BE A MINIMUM OF 20MM AND CONFORM TO ASTM B88-03 (ASTM B88M-05 FOR METRIC SIZES) TYPE "K" SOFT COPPER AS PER T-1104.01
 - 10. ALL CURB AND VALVE BOXES TO BE LOCATED AT STREET LINE.
 - MECHANICAL RESTRAINTS SHALL BE INSTALLED AT ALL JOINTS BETWEEN FITTINGS, BENDS, TEES, CROSSES AND VALVES. MECHANICAL RESTRAINTS SHALL CONFORM TO THE MATERIAL SPECIFICATIONS CONTAINED IN CITY OF TORONTO MATERIAL /
 - MANUFACTURER SPECIFICATIONS FOR DISTRIBUTION WATERMAINS AND APPURTENANCES REVISION JUNE 2007 ALL TEES, PLUGS, HORIZONTAL AND VERTICAL BENDS, REDUCERS AND HYDRANTS TO HAVE CONCRETE THRUST BLOCKS AS PER
 - WATERMAINS MUST FOLLOW THE MINISTRY OF THE ENVIRONMENT PROCEDURES THAT GOVERN THE SEPARATION OF SEWERS AND WATERMAINS F-6-1. A MINIMUM VERTICAL CLEARANCE 0.30M OVER, 0.5M UNDER SEWERS AND ALL OTHER UTILITIES WHEN
- THE CONTRACTOR SHALL RECTIFY ALL DISTURBED AREAS TO THE ORIGINAL CONDITION OR BETTER AND TO THE SATISFACTION OF THE EXECUTIVE DIRECTOR OF TEHCNICAL SERVICES. AND LARGER SHOULD BE IN A CHAMBER PRIOR TO COMMENCING ANY WORK WITHIN THE MUNICIPAL RIGHT OF WAY THE CONTRACTOR OR DEVELOPER OR CONSULTANT
- UNLESS INDICATED OTHERWISE, ALL WORK WITHIN THE CITY RIGHT-OF-WAY SHALL BE UNDERTAKEN IN ACCORDANCE WITH CITY OF TORONTO DESIGN STANDARDS AND SPECIFICATION AND THE UNDERTAKING. ONTARIO PROVINCIAL STANDARDS MAY, SUBJECT TO THE APPROVAL OF THE CITY OF TORONTO, BE USED WHERE NO STANDARD OR SPECIFICATION IS NOTED.
- ANY DISCREPANCIES BETWEEN SITE CONDITIONS AND THE DRAWINGS MUST BE REPORTED TO THE CONSULTANT PRIOR TO COMMENCEMENT OF CONSTRUCTION AND APPROPRIATE ACTION TAKEN TO THE SATISFACTION OF THE CITY OF TORONTO.
- CONCRETE SIDEWALK TO BE COMPLETE WITH 150MM GRANULAR BASE AS OUTLINE IN CITY OF TORONTO SPECIFICATION T.S. 3.70 OR AS DIRECTED BY THE CITY INSPECTOR.
- NO PORTION OF THE WORK SHALL BE CARRIED OUT WITHOUT FIRST HAVING OBTAINED APPROVED CONSTRUCTION DRAWINGS, APPROVED PROJECT SCHEDULE(S), APPROVED TRAFFIC STAGING PLANS AND PERMITS FOR SUCH PORTION OF THE INFRASTRUCTURE WORK IN ACCORDANCE WITH THE PROVISIONS HEREOF AND GIVING 10 WORKING DAYS PRIOR WRITTEN NOTICE TO THE EXECUTIVE DIRECTOR OF TECHNICAL SERVICES THAT SUCH WORK IS TO BE CARRIED OUT WITH SUCH NOTICE TO SPECIFY THE ANTICIPATED DATE OF COMMENCEMENT OF THE WORK. A PRE-CONSTRUCTION COORDINATION MEETING WITH CITY STAFF IS TO BE HELD A MINIMUM OF 5 WORKING DAYS PRIOR TO THE COMMENCEMENT OF ANY OF THE WORK.
- THE REMOVAL OF TREES REQUIRES THE APPROVAL OF PARKS, FORESTRY & RECREATION DIVISION (CONTACT PETER DMYSTRASZ, SUPERVISOR URBAN FORESTRY, 416-494-8551 - CONTACT WILL DIFFER IN DIFFERENT PARTS OF THE CITY).
- ALL AREAS DISTURBED DURING CONSTRUCTION WITHIN THE CITY'S RIGHT-OF-WAY SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION. GRASSED AREAS SHALL BE PROVIDED WITH 100MM OF TOPSOIL AND SHALL BE SODDED AS PER T.S. 5.00 &
- THE CONTRACTOR SHALL REFER TO THE ONTARIO TRAFFIC MANUAL BOOK 7, TEMPORARY CONDITIONS FOR TEMPORARY CONSTRUCTION SIGNAGE
- CONTRACTOR SHALL VERIFY AND MATCH EXISTING PAVEMENT STRUCTURE IN DEPTH AND MATERIAL, ANY DISCREPANCIES SHALL BE REPORTED TO THE CONSULTANT PRIOR TO COMMENCEMENT OF CONSTRUCTION AND APPROPRIATE ACTION TAKEN TO THE SATISFACTION OF THE CITY OF TORONTO.
- ANY DAMAGE TO PROPERTY ADJACENT TO THE CONSTRUCTION SITE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL SURVEY POINTS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE LAYOUT SHALL BE REPORTED TO THE CONSULTANT AND THE CONSULTANT SHALL NOTIFY THE CITY OF THE NECESSARY CHANGES.

WATERMAINS

- ALL WATERMAIN SERVICE CONNECTIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH T-1104.01, T-1104.02-1, T-1104.02-2, T-1105.02-1 OR T-1105.02-2
- WATERMAIN AND WATERMAIN APPURTENANCES SHALL CONFORM TO CITY OF TORONTO MATERIAL / MANUFACTURER SPECIFICATIONS FOR DISTRIBUTION WATERMAINS AND APPURTENANCES REVISION JUNE 2007.
- ALL POLYVINYL CHLORIDE (PVC) PIPES, RANGING IN SIZE FROM 100 MM THROUGH 300 MM IN DIAMETER, SHALL BE CLASS 150, SDR 18 AND MANUFACTURED IN ACCORDANCE AWWA C900-07 AND TO CSA B137.3-05 AND SHALL HAVE CAST IRON OUTSIDE DIAMETER DIMENSIONS. ALL PVC PIPE LARGER THAN 300 MM THROUGH 600 MM IN DIAMETER, SHALL BE PRESSURE RATING 165, SDR 25 AND MANUFACTURED IN ACCORDANCE TO AWWA C905-97 STANDARD AND CSA B137.3-05 AND SHALL HAVE CAST IRON OUTSIDE DIAMETER DIMENSIONS.
- BEDDING FOR FLEXIBLE PIPE SHALL BE AS PER OPSD 802.010, 802.013 OR 802.014.
- COVER REQUIRED ON WATERMAIN IS 1.8M MINIMUM.
- PROVISIONS FOR FLUSHING THE WATER LINE PRIOR TO TESTING ETC. MUST BE PROVIDED WITH AT LEAST A 50MM OUTLET ON 100MM AND LARGER LINES AS PER T-1104.03-1. COPPER LINES ARE TO HAVE FLUSHING POINTS AT THE END, THE SAME SIZE AS THE LINE. ON FIRE LINES, FLUSHING OUTLET TO BE 100MM DIAMETER MINIMUM OR A HYDRANT.
- ALL HYDRANTS TO BE AS PER CITY OF TORONTO STANDARD T-1105.01. IT SHALL CONFORM WITH THE MATERIAL SPECIFICATIONS CONTAINED IN CITY OF TORONTO MATERIAL / MANUFACTURER SPECIFICATIONS FOR DISTRIBUTION WATERMAINS AND APPURTENANCES REVISION JUNE 2007.
- WATERMAINS TO BE INSTALLED TO GRADES AS SHOWN ON APPROVED PLANS, COPY OF GRADE SHEET MUST BE SUPPLIED TO INSPECTOR PRIOR TO COMMENCEMENT OF WORK, WHERE REQUESTED BY INSPECTOR.

- CITY OF TORONTO STANDARD T-1103.01, T-1103.02 CROSSING. MUST ALSO MAINTAIN 2.5M HORIZONTAL SEPARATION.
- ALL VALVES LESS THAN 400MM TO BE IN A VALVE AND BOX AS PER CITY OF TORONTO STANDARD T-1101.02-2. ALL VALVES 400MM
- SACRIFICIAL ANODES TO BE INSTALLED FOR ALL METAL PIPES AND APPURTENANCES, WATER SERVICES AND FITTINGS AS PER CITY OF TORONTO STANDARD T-1106.04, T-1106.05 AND T-1106.06 CONSTRUCTION SPECIFICATION T.S. 7.22 & T.S. 7.20

TESTING AND CHI ORINATING FROM THE EXISTING SYSTEM. FLUSHING, SWARBING AND TESTING OF WATERMAIN AS PER

ONTARIO PROVINCIAL STANDARDS AND SPECIFICATIONS, AS WELL AS CITY OF TORONTO SPECIFICATION TS 7.30 OR LATEST

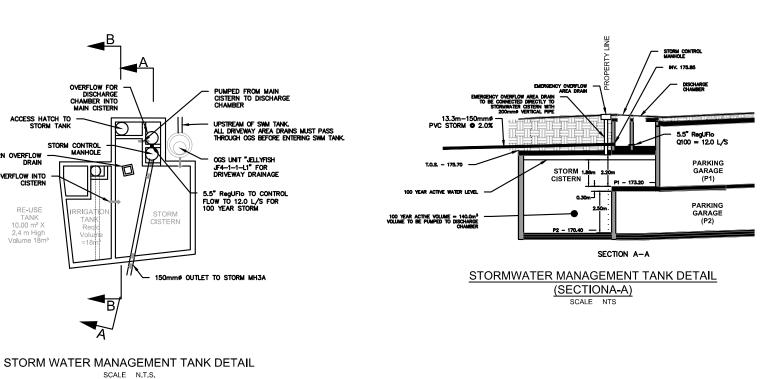
- TRACER WIRE INSTALLATION AS PER CITY OF TORONTO CONSTRUCTION SPECIFICATION T.S. 7.40. ALL PROPOSED WATER PIPING MUST BE ISOLATED FROM EXISTING LINES IN ORDER TO ALLOW INDEPENDENT PRESSURE
- AFTER PASSING THE HYDROSTATIC PRESSURE TEST AND LEAKAGE TEST, CHLORINATION CAN PROCEED. SAMPLING OF THE NEW MAINS IS TO BE DONE AT THE REQUIRED LOCATIONS PRIOR TO CONNECTING TO THE CITY WATERMAIN SYSTEM, THE TEE FITTING IS TO BE CUT INTO THE EXISTING WATERMAIN TO MAKE THE CONNECTION. TO MAINTAIN THE PRESSURE IN THE NEW MAIN DURING INSTALLATION OF SERVICE, A 50 MM BY-PASS WITH AN APPROVED PRESSURE DIFFERENTIAL BACKFLOW PREVENTER, MOUNTED ABOVE GROUND LEVEL IS TO BE INSTALLED AROUND THE CLOSED ISOLATING VALVE.
- CITY WATER VALVES CAN ONLY BE OPERATED BY CITY STAFF.
- WHERE APPLICABLE A WATER METER CHAMBER SHALL BE LOCATED WITHIN THE PROPERTY OF THE OWNER AND WITHIN 3M OF THE STREETLINE, IN A LOCATION APPROVED BY THE CITY PRIOR TO CONSTRUCTION.
- WHERE APPLICABLE ALL LANDSCAPING (TREES AND SHRUBS) SHALL BE KEPT 1.5M AWAY FROM THE OUTER PERIMETER OF THE WATER METER CHAMBER
- ALL REMOTE READOUT UNITS WILL BE INSTALLED AS REQUIRED BY THE CURRENT WATER SUPPLY BY-LAW, CHAPTER 851 AND AS PER CITY OF TORONTO CONSTRUCTION SPECIFICATION TS 7.50
- 23. BOTH THE FIRE AND DOMESTIC WATER SERVICES MUST COMPLY WITH THE CURRENT BUILDING CODE ACT, THE CURRENT WATER SUPPLY BY-LAW, CHAPTER 851 AND CSA B-64 SERIES STANDARDS.

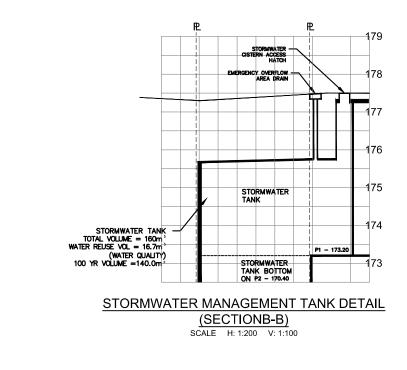
SANITARY & STORM SEWERS

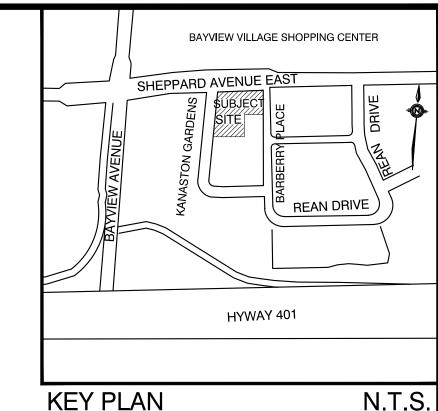
- MAIN LINE PVC PIPE AS PER SDR-35 CSA B182.2-06 CERTIFIED ASTM D3034-04A, F679-03. SERVICE CONNECTION PVC PIPE TO BE AS PER SDR-28 CSA B182.2-06 CERTIFIED ASTM D3034-04A.
- BEDDING FOR FLEXIBLE PIPE SHALL BE AS PER OPSD 802.010, 802.013 OR 802.014.
- 3. ULTRA-RIB PIPE IS NOT PERMITTED WITHIN THE MUNICIPAL RIGHT OF WAY.
- MAINTENANCE HOLES AS PER CITY OF TORONTO STANDARD, T-701.010 (1200MM), T-701.011 (1500MM), T-701.012-1 (1800MM) OR T-701.013 (2400MM). FRAME AND COVER AS PER OPSD 401.010 TYPE A CLOSED (SANITARY) TYPE B OPEN (STORM)
- BENCHING SHALL BE AS PER CITY OF TORONTO STANDARD T-701.021.
- DROP STRUCTURES TO BE AS PER CITY OF TORONTO STANDARD T-1003.01 (EXTERNAL) AND T-1003.01-2 (INTERNAL).
- SANITARY SERVICE CONNECTIONS SHALL BE SINGLE, 150 MM MINIMUM, PVC CLASS DR 28 INSTALLED AT 2 % AND ANY COLOUR EXCEPT WHITE, FOR SINGLE RESIDENTIAL DWELLINGS.
- SANITARY MAINTENANCE HOLE SHALL HAVE WATERTIGHT FRAME AND COVER IN PONDING AREAS AS PER OPSD 401.030
- REINFORCED CONCRETE PIPE SHALL BE AS PER CSA A257.2-03 (MINIMUM 65D). HEIGHT OF FILL TO BE VERIFIED USING OPSD TABLES 807.010 AND 807.030.
- NON-REINFORCED CONCRETE PIPE 150MM TO 250MM SHALL BE AS PER CSA A257.1-03 CLASS 3. HEIGHT OF FILL TO BE VERIFIED USING OPSD TABLES 807.040.
- BEDDING FOR RIGID PIPE SHALL BE CLASS B AS PER OPSD 802.030, 802.031, 802.032 OR 802.033
- SINGLE CATCHBASINS SHALL BE AS PER CITY OF TORONTO STANDARD T-705.010 COMPLETE WITH GOSS TRAP. FRAME AND COVER AS PER OPSD-400.070. (NOTE OPSD 400.070 FRAME AND COVER IS REQUIRED WITHIN THE MUNICIPAL RIGHT OF WAY. ON SITE FRAME AND COVERS MAY BE DIFFERENT. THE PROPER OPSD SHOULD BE LISTED

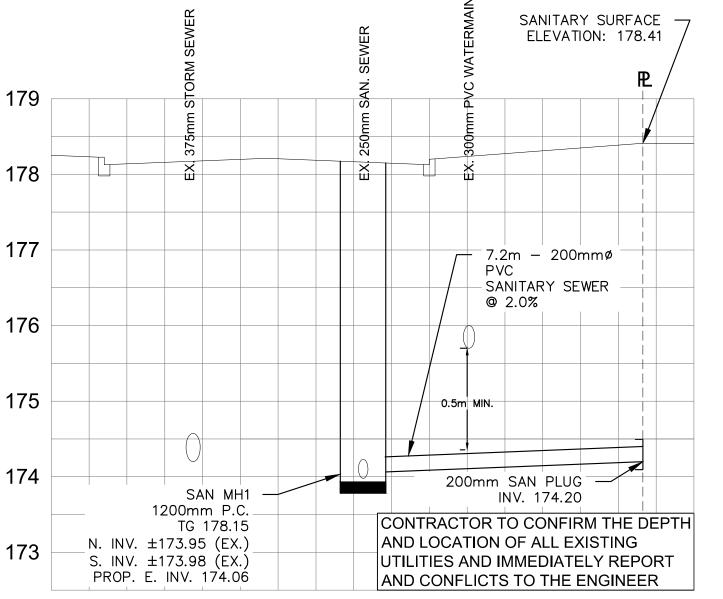
OTHERWISE NOTED. ALL NON-PRESSURE POLYETHYLENE PIPES SHALL CONFORM TO OPSS 1840 MATERIAL SPECIFICATION.

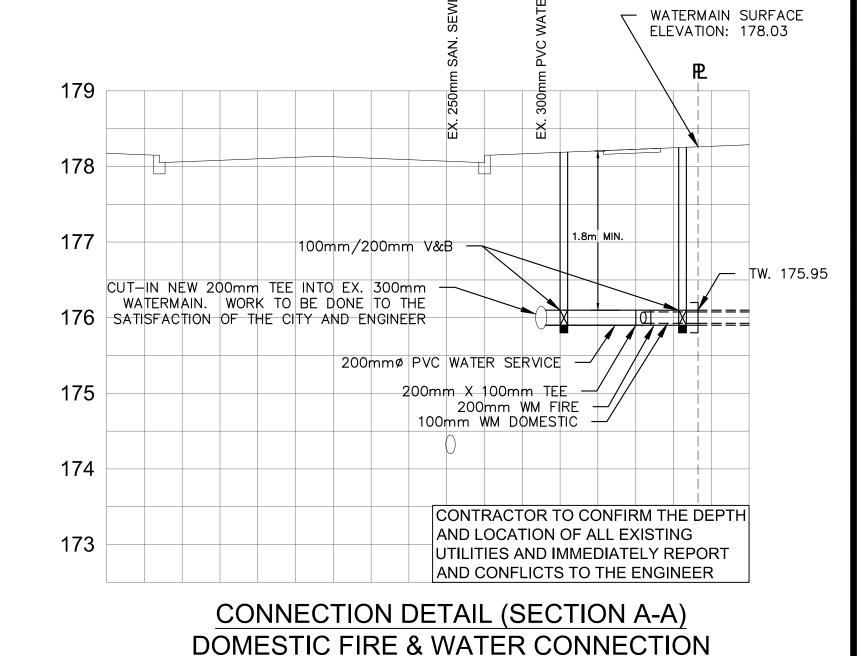
- DOUBLE CATCHBASINS SHALL BE AS PER CITY OF TORONTO STANDARD T-705.020 COMPLETE WITH GOSS TRAP.
- SERVICE CONNECTIONS AND UTILITY CUTS TO BE BACKFILLED WITH UNSHRINKABLE FILL. CB LEADS TO BE 200MM PVC SDR-35 FOR SINGLE CATCHBASINS AND 250MM PVC SDR-35 FOR DOUBLE CATCHBASINS UNLESS





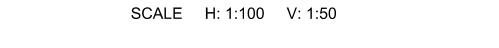






CONNECTION DETAIL (SECTION A-A) SANITARY SEWER CONNECTION

SCALE H: 1:100 V: 1:50



STORM WATER MANAGEMENT TANK

THE PROPOSED STORM WATER STORAGE TANK FOR THIS DEVELOPMENT DOES NOT FUNCTION UNDER GRAVITY CONDITION AND IT WILL ALWAYS REQUIRE PUMPING FACILITIES AND BACKUP GENERATOR(S) AND OTHER FACILITIES REQUIRED. THE OWNER SHALL CONSTRUCT AND MAINTAIN THE STORM DRAINAGE SYSTEM AND ALL NECESSARY PUMPING EQUIPMENT AND FACILITIES AS SET OUT IN THE STORM WATER MANAGEMENT REPORT IN A STATE OF GOOD REPAIR AT ALL TIMES. NO MODIFICATIONS ARE PERMITTED THAT MAY ALTER THE INTENT AND/OR FUNCTION OF THE STORM DRAINAGE SYSTEM UNLESS APPROVAL HAS BEEN OBTAINED FROM THE GENERAL MANAGER OF TORONTO WATER.

- THE DETAILS OF THE STORM WATER CONTINGENCY AND MONITORING MEASURES, PREPARED BY A QUALIFIED PROFESSIONAL ENGINEER (THE "MONITORING/CONTINGENCY PLAN") ARE TO BE REFERENCED IN THE DECLARATION FOR THE CONDOMINIUM CORPORATION AND THE APPLICANT'S SOLICITOR MUST PROVIDE WRITTEN CERTIFICATION THAT THESE DETAILS HAVE BEEN INCLUDED IN THE DECLARATION OF THE CONDOMINIUM CORPORATION PRIOR TO REGISTRATION OF CONDOMINIUM.
- THE OWNER ACKNOWLEDGES AND AGREES THAT FUTURE PURCHASERS WILL BE MADE AWARE OF THE MAINTENANCE, CONTINGENCY AND MONITORING PLAN AS A RESULT OF ITS REFERENCE IN THE DECLARATION TO BE REGISTERED ON TITLE.
- 4. THE DECLARATION FOR THE CONDOMINIUM CORPORATION MUST INDICATE THAT A PROFESSIONAL ENGINEER MUST BE HIRED TO INSPECT THE FACILITIES ON A REGULAR BASIS TO CERTIFY THAT THE FACILITIES FUNCTION AS INTENDED.
- THE STORM WATER MANAGEMENT IS TO OUTLINE THE NECESSARY DETAILS TO ENSURE THAT THE BUILDING, INCLUDING GARAGE ENVELOPE DO NOT FLOOD IN THE EVENT OF A POWER FAILURE, IN ADDITION, THE ENGINEER WILL BE REQUIRED TO PROVIDE CERTIFICATION TO THE EXECUTIVE DIRECTOR OF ENGINEERING AND CONSTRUCTION SERVICES BY THE PROFESSIONAL ENGINEER WHO DESIGNED AND SUPERVISED THE CONSTRUCTION THAT THE STORM WATER MANAGEMENT FACILITIES AND BACK UP COMPONENTS IN THE EVENT OF A POWER FAILURE HAS BEEN CONSTRUCTED IN ACCORDANCE WITH THE ACCEPTED STORM WATER MANAGEMENT REPORT AND THE ACCEPTED GRADING PLANS. NO MODIFICATIONS ARE PERMITTED THAT MAY ALTER THE INTENT AND /OR FUNCTION OF THE STORM DRAINAGE SYSTEMS AND MITIGATION MEASURES UNLESS APPROVAL HAS BEEN OBTAINED FROM THE GENERAL MANAGER OF TORONTO
- THE OWNER WILL BE REQUIRED TO INDEMNIFY THE CITY AGAINST ANY LIABILITY ISSUE DUE TO THE FAILURE OF THE PROPOSED STORM SEWER SYSTEM AND MITIGATION MEASURES FOR THE NON-GRAVITY SYSTEM FOR ANY AND ALL DAMAGES TO THE LAND, RESIDENTS AND THE ADJACENT PROPERTIES FROM FLOODING DURING STORM EVENTS IN EXCESS OF THE MANAGEMENT SYSTEM AND MITIGATION MEASURES AS INTENDED.

DISCHARGE CHAMBER - 6.5" RegUFlo Q100 = 20.7 L/sCONTROL MANHOLE 35.1m - 750mmø -1.2m WIDE - 50mm THICK EXTRUDED -177 CONC STORM @ 0.7% 5.5" RegUFlo POLYSTYRENE INSULATION (SYTOFOAM HI 13.3m-150mmø -VOL PROVIDED = 15.5m³ 60) OR APPROVED EQUIVALENT PVC STORM @ 2.0% Q100 = |12.0 L/S| $100 \text{ YEAR VOL} = 15.1\text{m}^3$ - 11.8m - 200mmø PVC STORM SERVICE @ 2.0% 176 INV. 175.85 0.3m MIN. INV. 175.73 35.1m - 750mmø CONC STORM @ 0.7% STORMWATER INV. 175.33 -0.3m MIN. INV. 175.06 -STM MH3A VOLUME TO E 1500mm STM MH2A PUMPED TO DISCHARGE 174 T-701.011 1500mm STORMWATER TANK CHAMBER TG 177.31 T-701.011 TOTAL VOLUME = 160m³ N. 175.58 TG 177.89 WATER REUSE VOL = 16.7m3 CONTRACTOR TO CONFIRM THE DEPTH P1 - 173.20 1200mm P.C. W. 175.33 E. 175.09 (WATER QUALITY) AND LOCATION OF ALL EXISTING N. INV. ±174 11 (EX.) E. 175.36 W. 175.06 100 YR VOLUME =140.0m3 STORMWATER UTILITIES AND IMMEDIATELY REPORT S. INV. ±174.08 (EX.) TANK BOTTOM E. INV. 174.82 AND CONFLICTS TO THE ENGINEER

CONNECTION DETAIL (SECTION A-A) STORM SEWER CONNECTION SCALE H: 1:100 V: 1:50

DATE

EB25/16 RE-ISSUED FOR SITE PLAN APPLICATION R.G.K. DEC18/15 RE-ISSUED FOR SITE PLAN APPLICATION R.G.K. BUILDING PERMIT SUBMISSION R.G.K. RE-ISSUED FOR SITE PLAN APPROVAL R.G.K. JUL29/15 REVISED PER CITY COMMENTS R.G.K. RE-ISSUED FOR SITE PLAN APPROVAL R.G.K. APR3/14 ISSUED FOR SITE PLAN APPROVAL ISSUED FOR REZONING

REVISIONS

ENGINEERING AND CONSTRUCTION TORONTO ENGINEERING AND SERVICES DIVISION

ACCEPTED TO BE IN ACCORDANCE WITH THE CITY OF TORONTO STANDARDS. THIS ACCEPTANCE IS NOT TO BE CONSTRUED AS VERIFICATION OF ENGINEERING CONTENT.

CRAIG A. KELLY, P.ENG., MANAGER, DEVELOPMENT ENGINEERING - NORTH YORK DISTRICT

SIGNED

KENASTON GARDENS RESIDENTIAL DEVELOPMENT

CONTRACT No. 10-13055 DRAFTING: | 10/12 CAD P.D. A.K. CHECK: AS SPECIFIED DRAWING SS2 NOTES & DETAILS AUGUST 2013

CHESTNUT HILL DEVELOPMENTS

CONSULTANT:

CLIENT:

MMM GROUP

100 Commerce Valley Dr. West, Thornhill, ON Canada L3T 0A1 t: 905.882.1100 f: 905.882.0055 www.mmm.ca

R. G. KNIGHT Feb 25/16