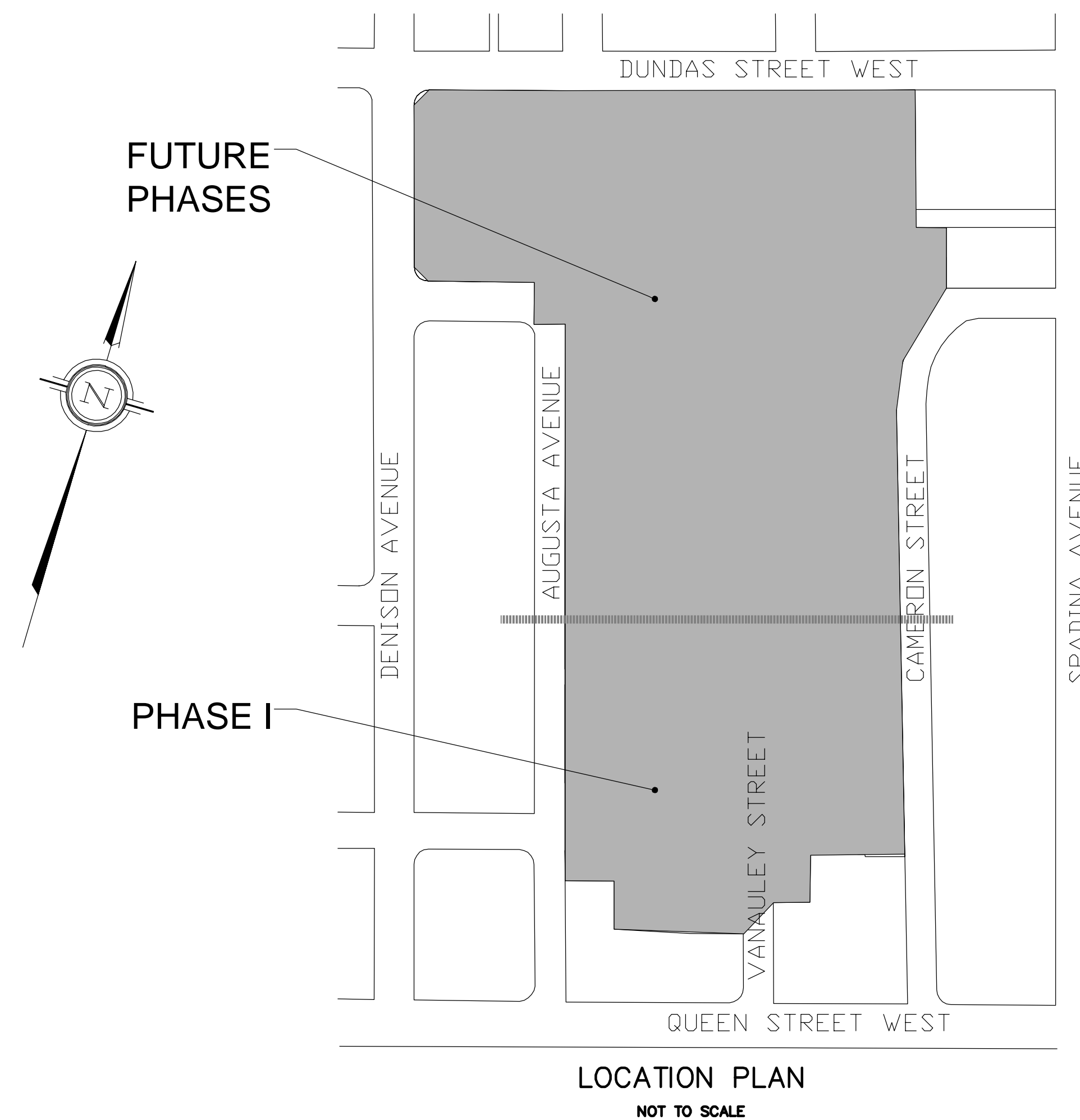




TORONTO AND EAST YORK DISTRICT ENGINEERING AND CONSTRUCTION SERVICES DIVISION ALEXANDRA PARK – PHASE I

RESIDENTIAL SUBDIVISION:
APPLICATION NO. 66M-



LIST OF DRAWINGS

DRAWING No.	DESCRIPTION	SHEET No.
GN-1	GENERAL NOTES	SHEET 1 OF 1
REM-101	EXISTING CONDITIONS PLAN	SHEET 1 OF 1
G-101	GENERAL PLAN – PHASE I	SHEET 1 OF 1
G-102	GENERAL PLAN – FUTURE PHASES	SHEET 1 OF 1
G-103	SANITARY DRAINAGE PLAN – PHASE I	SHEET 1 OF 1
G-104	STORM DRAINAGE PLAN – PHASE I	SHEET 1 OF 1
L-101	GRADING PLAN – PHASE I	SHEET 1 OF 1
P-101	VANAULEY STREET FROM STA. 0+000.000 TO 0+100.000	SHEET 1 OF 1
P-101a	VANAULEY STREET-GRADING FROM STA. 0+000.000 TO 0+100.000	SHEET 1 OF 1
P-102	VANAULEY STREET FROM STA. 0+100.000 TO 0+220.000	SHEET 1 OF 1
P-102a	VANAULEY STREET-GRADING FROM STA. 0+100.000 TO 0+220.000	SHEET 1 OF 1
P-103	STREET B FROM STA. 0+000.000 TO 0+080.000	SHEET 1 OF 1
P-103a	STREET B –GRADING FROM STA. 0+000.000 TO 0+080.000	SHEET 1 OF 1
P-104	STREET B FROM STA. 0+080.000 TO 0+183.870	SHEET 1 OF 1
P-104a	STREET B –GRADING FROM STA. 0+080.000 TO 0+183.870	SHEET 1 OF 1
U-101	UTILITY COORDINATION PLAN	SHEET 1 OF 1
PM-101	PAVEMENT MARKING PLAN	SHEET 1 OF 1
DET-101	DETAILS	SHEET 1 OF 1
ERS-101	EROSION & SEDIMENT CONTROL PLAN	SHEET 1 OF 1

ALEXANDRA PARK – PHASE I RESIDENTIAL DEVELOPMENT
CITY OF TORONTO, ENGINEERING AND CONSTRUCTION SERVICES
EXECUTIVE DIRECTOR OF ENGINEERING AND CONSTRUCTION SERVICES : TONY PAGNANELLI, P.ENG.
DIRECTOR OF ENGINEERING REVIEW : HELEN NOEHAMMER, P.ENG.

MAY 2014



The Sernas Group Inc. (A GHD Company)
11 Allstate Parkway, Suite 310
Markham Ontario L3R 9T8
T 1 905 752 4300 F 1 905 752 4301
E ytomail@ghd.com W www.ghd.com

CITY DWG NO. X-XXX-XXX

GENERAL NOTES

- ALL WORK TO CONFORM TO THE LATEST CITY OF TORONTO STANDARD DRAWINGS AND SPECIFICATIONS AS WELL AS THE LATEST ADOPTED ONTARIO PROVINCIAL STANDARD DRAWINGS AND SPECIFICATIONS.
- ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE CURRENT "OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS". THE GENERAL CONTRACTOR SHALL BE DEEMED TO BE THE CONSTRUCTOR AS DEFINED IN THE ACT.
- ALL TEMPORARY TRAFFIC CONTROL AND SIGNAGE DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH CURRENT ONTARIO TRAFFIC MANUAL BOOK 7: TEMPORARY CONDITIONS FIELD EDITION.
- ALL TRENCHES WITHIN EXISTING RIGHT OF WAY SHALL BE BACKFILLED WITH UNSHRINKABLE FILL. TEMPORARY REPAIRS TO UTILITY CUTS WILL BE AS PER MUNICIPAL CONSENT REQUIREMENTS, APPENDIX D, TEMPORARY REPAIRS TO UTILITY CUTS.
- THE CONTRACTOR SHALL RECTIFY ALL DISTURBED AREAS TO THE ORIGINAL CONDITION OR BETTER AND TO THE SATISFACTION OF THE EXECUTIVE DIRECTOR, ENGINEERING AND CONSTRUCTION SERVICES.
- PRIOR TO COMMENCING ANY WORK WITHIN THE MUNICIPAL RIGHT OF WAY, THE CONTRACTOR OR DEVELOPER OR CONSULTANT WILL OBTAIN ALL NECESSARY ROAD OCCUPANCY PERMITS FROM THE CITY'S RIGHT-OF-WAY MANAGEMENT UNIT CONTACT ELIO CAPIZZANO AT 416-392-7878.

SANITARY & STORM SEWERS

- MAIN LINE PVC PIPE AS PER DR 35 CSA B182.2-06 CERTIFIED ASTM D3034-04A, F679-03. SERVICE CONNECTION PVC PIPE TO BE AS PER DR 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.
- 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 (1800mm) OR T701.013 (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, 150mm Ø MINIMUM, PVC CLASS DR 28 INSTALLED AT 2 PERCENT AND THE COLOUR SHALL BE GREEN, 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 65-D). 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 TABLE 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.
- 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.
- CATCHBASIN LEADS TO BE 200mm PVC DR 35 FOR SINGLE CATCHBASINS AND 250mm PVC DR 35 FOR DOUBLE CATCHBASINS UNLESS OTHERWISE NOTED.
- DRAIN CONNECTIONS SHALL BE AS PER CITY OF TORONTO STD. T-708.01 FOR CONCRETE PIPE AN T-70.03 FOR FLEXIBLE PIPE.
- SEWERS UP TO AND INCLUDING 375mmØ SHALL BE PVC DR 35. SEWERS LARGER THAN 375mmØ SHALL BE REINFORCED CONCRETE. ALL CONCRETE PIPES SHALL HAVE SEALED JOINTS WITH GASKETS. CLASS AS SHOWN ON DWGS.
- BEDDING MATERIAL WILL BE GRANULAR 'A' TO THE TOP OF THE PIPE WITH 300mm SAND COVER OVER PIPE.
- ALL MAINTENANCE HOLES AND CATCHBASINS TO BE BACKFILLED WITH GRANULAR 'B' COMPACTED TO 95% PROCTOR DENSITY.
- NATIVE BACKFILL TO BE CLEAN AND FREE OF DELETERIOUS MATERIAL COMPACTION TO BE AS PER CITY SPECIFICATION TS 2.10 AND TS 5.01 AS MINIMUM. ALL FILL MATERIALS TO BE CONFIRMED BY A RECOGNIZED SOIL CONSULTANT TO THE CITY PRIOR TO THE INSTALLATION OF ANY ROAD BASE MATERIAL.
- MAINTENANCE HOLE STEPS SHALL BE AS PER OPSD 405.020. MODULOC PRECAST CONCRETE ADJUSTMENT UNITS FOR MANHOLE AND CATCHBASINS SHALL BE AS PER OPSD 704. 010.
- CONNECTIONS TO MANHOLES AND CATCHBASINS TO BE SUPPORTED AS PER CITY STD. T-708.020.
- ALL SEWERS WORKS SHALL BE SUBJECT TO THE INSPECTION AND APPROVAL OF THE EXECUTIVE DIRECTOR OF ENGINEERING AND CONSTRUCTION SERVICES, WHOSE APPROVAL MUST BE OBTAINED BEFORE FINAL ACCEPTANCE OF THE WORKS.

WATERMANS

- ALL SERVICE CONNECTIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH T-1104.01, T-1104.02-1, T-1104.02-2, T-1105.02-1 AND T-1105.02-2.
- WATERMAIN AND WATERMAIN APPURTENANCES SHALL CONFORM TO CITY OF TORONTO MATERIAL / MANUFACTURER SPECIFICATIONS. SEE CHAPTER 6, MATERIAL SPECIFICATIONS.
- ALL POLYVINYL CHLORIDE (PVC) PIPES, RANGING IN SIZE FROM 100mm THROUGH 300mm IN DIAMETER, SHALL BE CLASS 150, DR 18 AND MANUFACTURED IN ACCORDANCE AWWA C900-07 AND TOCSA B137.3-05 AND SHALL HAVE CAST IRON OUTSIDE DIAMETER DIMENSIONS. ALL PVC PIPE LARGER THAN 350mm THROUGH 400mm IN DIAMETER, SHALL BE PRESSURE RATING 235, DR 14 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.
- MINIMUM COVER ON WATERMANS WILL BE 1.8 METRES.
- PROVISIONS FOR FLUSHING THE WATER LINE PRIOR TO TESTING AND SO FORTH 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 TO CITY OF TORONTO MATERIAL / MANUFACTURER SPECIFICATIONS. SEE CHAPTER 6, MATERIAL SPECIFICATIONS.
- SINGLE WATER SERVICE CONNECTIONS SHALL BE A MINIMUM OF 19mm Ø AND CONFORM TO ASTM B88-03 (ASTM B88M-05 FOR METRIC SIZES) TYPE "K" SOFT COPPER AS PER T-1104.01.
- ALL CURB AND VALVE BOXES TO BE LOCATED AT STREET LINE.
- MECHANICAL THRUST RESTRAINTS SHALL BE INSTALLED AT ALL FITTINGS, BENDS, TEES, CROSSES, REDUCERS AND VALVES FOR ALL WATERMAIN SIZES. MECHANICAL RESTRAINTS AT JOINTS SHALL BE INSTALLED WITHIN 6.1 METRES OF EITHER SIDE OF THE VALVE FOR WATERMANS 300mm DIAMETER OR LARGER. MECHANICAL THRUST RESTRAINTS SHALL CONFORM TO THE MATERIAL SPECIFICATIONS CONTAINED IN CITY OF TORONTO MATERIAL / MANUFACTURER SPECIFICATIONS. SEE CHAPTER 6, MATERIAL SPECIFICATIONS.
- ALL TEES, PLUGS, HORIZONTAL, VERTICAL BENDS, REDUCERS AND HYDRANTS TO HAVE CONCRETE THRUST BLOCKS AS PER CITY OF TORONTO STANDARD T-1103.01, T-1103.020.
- WATERMANS TO FOLLOW THE MINISTRY OF THE ENVIRONMENT PROCEDURES F-6-1 THAT GOVERN THE SEPARATION OF SEWERS (INCL. APPURTENANCES) AND WATERMANS. A MINIMUM VERTICAL CLEARANCE OF 0.30 METRE OVER, 0.5 METRE UNDER SEWERS (INCL. APPURTENANCES) AND ALL OTHER UTILITIES WHEN CROSSING, AND 2.5 METRES HORIZONTAL SEPARATION WITH SEWERS (INCL. APPURTENANCES); UNLESS OTHERWISE NOTED.
- ALL VALVES LESS THAN 400mm WILL BE IN A VALVE AND BOX AS PER CITY OF TORONTO STANDARD T-1101.02-2. ALL VALVES 400mm AND LARGER WILL BE IN A CHAMBER.

- 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.
- 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 TESTING AND CHLORINATING FROM THE EXISTING SYSTEM. FLUSHING, SWABBING AND TESTING OF WATERMAIN AS PER ONTARIO PROVINCIAL STANDARDS AND SPECIFICATIONS (OPSS), AS WELL AS CITY OF TORONTO SPECIFICATION TS 7.30 OR LATEST AMENDMENT.
- 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 CONNECTIONS 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 50mm BY-PASS WITH AN APPROVED PRESSURE DIFFERENTIAL BACKFLOW PREVENTER, MOUNTED ABOVE GROUND LEVEL IS TO BE INSTALLED AROUND THE CLOSED ISOLATING VALVE.
- CITY IN-SERVICE WATER VALVES CAN ONLY BE OPERATED BY TORONTO WATER STAFF.
- WATERMANS TO BE INSTALLED TO GRADE AS SHOWN ON APPROVED PLANS, COPY OF GRADE SHEET MUST BE SUPPLIED TO INSPECTOR PRIOR TO COMMENCEMENT OF WORK, WHEN REQUESTED BY INSPECTOR.
- ALL WATERMAIN WORKS SHALL BE SUBJECT TO THE INSPECTION AND APPROVAL OF THE EXECUTIVE DIRECTOR OF ENGINEERING AND CONSTRUCTION SERVICES, WHOSE APPROVAL MUST BE OBTAINED BEFORE FINAL ACCEPTANCE OF THE WORK.
- FOR INSULATION DETAILS SEE CITY OF TORONTO STD T-708.01-4.
- FULL CIRCULAR SERVICE CLAMPS TO BE USED FOR ALL COPPER SERVICES CONNECTIONS TO NEW WATER MAINLINE.
- MAGNESIUM ANODE TYPE 9 TO BE INSTALLED ON COPPER SERVICES CONNECTED TO DUCTILE IRON OR PLASTIC WATERMAIN.

WATERMAIN - FILL AREAS

- PIPES ARE NOT TO BE LAID ON FILL UNTIL THE FIELD DENSITY TEST REPORTS HAVE BEEN SUBMITTED AND APPROVED BY THE ENGINEER.
- FILL TO BE PLACED TO A MINIMUM OF 600mm ABOVE THE WATERMAIN GRADES AND TO 3 METRES MINIMUM ON EACH SIDE PRIOR TO WATERMAIN LAYING COMPACTED TO A MINIMUM OF 100 PERCENT STANDARD PROCTOR DENSITY IN 300mm LIFTS.
- SOIL DENSITY TESTS SHALL BE TAKEN ALONG CENTERLINE OF THE WATERMAIN AND ON LINES 1.5 METRES ON EITHER SIDE OF SAME AT A MAXIMUM INTERVAL OF 30 METRES. TESTS TO BE TAKEN AT EACH 600mm LIFT.
- ALL HYDRANTS, TEES, VALVES, BENDS, PLUGS AND EACH PIPE JOINT ARE TO BE MECHANICALLY RESTRAINED.
- PIPE JOINT DEFLECTIONS ARE NOT ALLOWED.

GRADING & ROAD / PAVEMENTS

- ALL AREA GRADING AND RESULTING DRAINAGE PATTERNS SHALL NOT ADVERSELY AFFECT ADJACENT LANDS.
 - THE STORM DRAINAGE SHALL BE SELF CONTAINED WITHIN THE SUBJECT PROPERTY UNTIL IT CAN BE DISCHARGED, REUSED, INFILTRATED AND/OR EVAPOTRANSPIRED IN A MANNER ACCEPTABLE TO THE CITY.
 - MINIMUM GENERALLY ACCEPTED GRADIENT - 2.0 PERCENT.
 - MAXIMUM GENERALLY ACCEPTABLE GRADIENT - 5.0 PERCENT.
 - MAXIMUM ACCEPTABLE SLOPE 3 PARTS HORIZONTAL TO 1 PART VERTICAL.
 - NO ALTERATIONS TO EXISTING BOUNDARY ELEVATIONS OR ADJACENT LANDS SHALL BE UNDERTAKEN UNLESS WRITTEN AGREEMENT WITH THE ADJACENT PROPERTY IS OBTAINED AND SUBMITTED IN A FORMAT ACCEPTABLE TO THE CITY.
 - MINIMUM SWALE GRADIENT - 2.0 PERCENT.
 - MINIMUM SWALE DEPTH - 150mm.
 - ALL SWALES OR DITCHES HAVING A VELOCITY IN EXCESS OF 1.5 METRES/SECOND SHALL BE DESIGNED TO INCORPORATE EROSION PROTECTION.
 - THE MINIMUM GRADIENT ON ANY DRIVEWAY SHALL BE 2.0 PERCENT. THE MAXIMUM DRIVEWAY GRADIENT IS 8.0 PERCENT.
 - RETAINING WALLS SHALL BE CONSTRUCTED ENTIRELY ON THE UPPER PROPERTY SO THAT THE TACKS (IF REQUIRED) DO NOT CROSS PROPERTY BOUNDARIES.
 - MAXIMUM PONDING DEPTH OF 0.3 METRE.
 - PROPOSED SPOT ELEVATIONS WILL BE SHOWN FOR ASPHALT, LANDSCAPE OR CONCRETE AREAS. UNLESS OTHERWISE NOTED TOP OF CURB ELEVATIONS ARE 0.15 METRE ABOVE ASPHALT ELEVATIONS EXCEPT AT CURB DEPRESSIONS AND WHEEL CHAIR RAMPS.
 - WHERE NEW ASPHALT MATCHES EXISTING ASPHALT, GRIND EXISTING ASPHALT A MINIMUM OF 300mm WIDE AND 40mm DEEP FOR KEYING. APPLY HOT RUBBER SEALING COMPOUND IN ACCORDANCE WITH OPSS 1212. ALL SURFACES TO BE TACK COATED WITH SS-1.
 - THE CONCRETE CURB, CONCRETE SIDEWALK (IF APPLICABLE) AND ALL RESTORATION ALONG FRONTING ROADWAYS TO THE SITE MUST BE CONSTRUCTED AND CARRIED OUT IN ACCORDANCE WITH ALL APPLICABLE AND CURRENT CITY OF TORONTO STANDARDS.
- CITY OF TORONTO STANDARDS INCLUDE BUT NOT LIMITED TO:
- T-350.01 - URBAN ENTRANCES
 - T-310.010-2 - CONCRETE SIDEWALK WITH BOULEVARD
 - T-310.010-4 - COMBINED CONCRETE CURB AND SIDEWALK
 - T-310.050-1 - VEHICLE ENTRANCE IN COMBINED CURB AND SIDEWALK
 - T-600.11-1 - CONCRETE CURB (BORDERING DRIVEWAY RETURN CURB AT ENTRANCES)
 - T-600.05-1 - CONCRETE CURB AND GUTTER
- THE LOCATION AND DETAIL OF JOINTS FOR CONCRETE SIDEWALK SHALL BE TO CITY OF TORONTO STD T-310.010-1 AND T-310.010-5.
 - CURB AND SIDEWALK AT INTERSECTIONS SHALL BE RAMPED AS PER CITY OF TORONTO STD T-310.020.
 - ALL ROAD WORKS SHALL BE SUBJECT TO THE INSPECTION AND APPROVAL OF THE EXECUTIVE DIRECTOR OF TECHNICAL SERVICES WHOSE APPROVAL MUST BE OBTAINED BEFORE FINAL ACCEPTANCE OF THE WORKS.
 - TWO STAGE CONCRETE CURB AND GUTTER AS PER CITY STD T-600.07-1.
 - COMPOSITE PAVEMENT FOR LOCAL AND COLLECTOR ROADS AS PER CITY STD T-216.02-1.
 - MINIMUM PAVEMENT REQUIREMENTS FOR DRIVEWAY ENTRANCES ARE AS FOLLOW:
 - 40mm HL3 FINE
 - 40mm OF HL8
 - 150MM OF GRANULAR 'A'
 (REFER TO CITY OF TORONTO STANDARD DRAWING T-310.050-8)
 - ALSO REFER TO CITY OF TORONTO'S CURRENT CONSTRUCTION SPECIFICATIONS AND AMENDMENTS INCLUDING BUT NOT LIMITED TO:
 - TS 3.20 - TACK COAT
 - TS 3.30 - HOT MIX ASPHALT SIDEWALKS BOULEVARDS AND DRIVEWAYS
 - TS 3.50 - CONCRETE CURB AND CONCRETE RAISED MEDIAN
 - TS 3.10 - HOT MIXED, HOT LAID ASPHALT CONCRETE PAVING
 - ROADWAY SUBDRAINS TO BE AS PER CITY STD T-216.02-8 AND CITY SPECIFICATION TS 405.

- SUBGRADE COMPACTION TO 98% SPMDM FOR AT LEAST THE UPPER 600mm. REFER ALSO TO CITY SPECIFICATIONS TS 2.10 AND TS 5.01.
- ROADWAY GRANULAR SUB-BASE AND BASE MATERIAL SHOULD BE COMPACTED TO AT LEAST 100% SPMDM.
- THE ASPHALTIC CONCRETE SHOULD BE COMPACTED TO 92% TO 96.5% OF MAXIMUM RELATIVE DENSITY.
- PRIOR TO THE INSTALLATION OF ANY REGULAR MATERIALS, THE SOILS CONSULTANT MUST HAVE ISSUED A COMPACTION CERTIFICATE AND APPROVAL BE ISSUED BY THE CITY.
- SODDING AND TOPSOIL TO BE AS PER CITY SPECIFICATION TS5.00 AND TS 5.10 RESPECTIVELY.
- ROOF WATER DOWNSPOUTS SHALL DISCHARGE ONTO GROUND/ LANDSCAPE AREA VIA PRECAST CONCRETE SPLASH PADS.

ADDITIONAL ROAD IMPROVEMENT NOTES

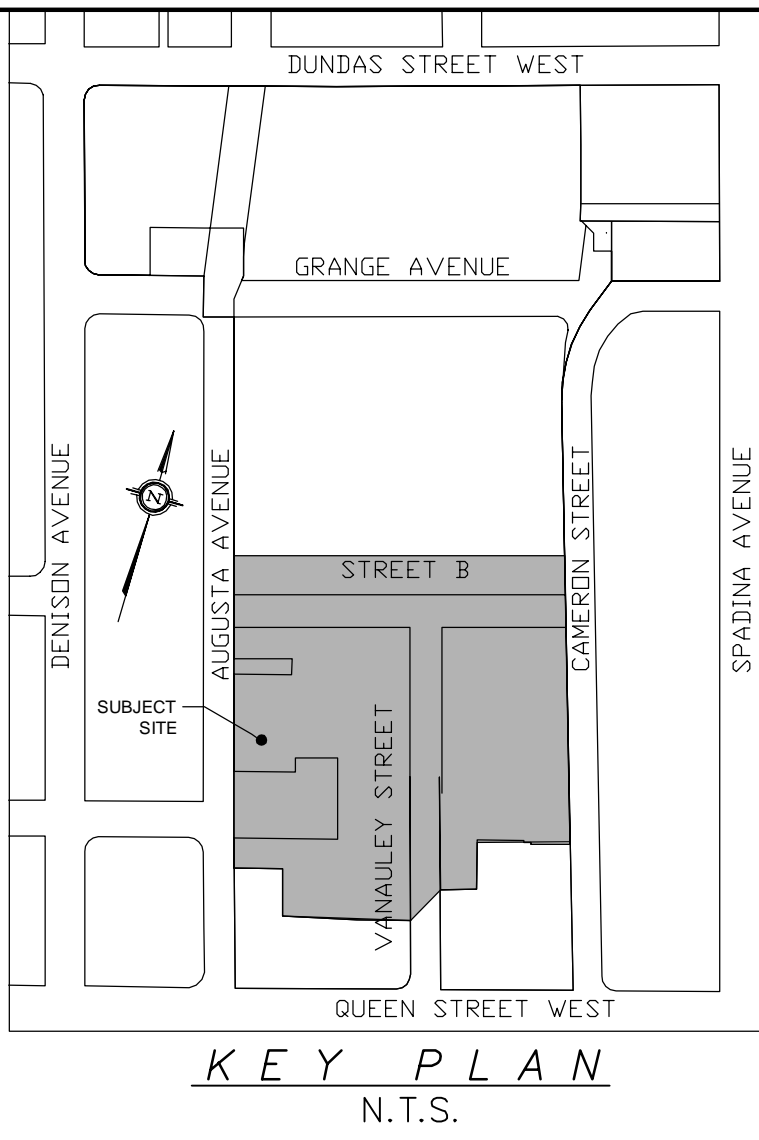
- UNLESS INDICATED OTHERWISE, ALL WORK WITHIN THE CITY RIGHT-OF-WAY SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF TORONTO DESIGN STANDARDS AND SPECIFICATION AND THE UNDERTAKING, ONTARIO PROVINCIAL STANDARDS MAY, SUBJECT TO THE APPROVAL OF THE CITY OF TORONTO, BE USED WHERE NO STANDARD OR SPECIFICATION IS NOTED.
- ANY DISCREPANCIES BETWEEN SITE CONDITIONS AND THE DRAWINGS MUST BE REPORTED TO THE CONSULTING ENGINEER/CITY PRIOR TO COMMENCEMENT OF CONSTRUCTION AND APPROPRIATE ACTION TAKEN TO THE SATISFACTION OF THE CITY OF TORONTO.
- 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 CONSULTING ENGINEER/CITY AND THE CONSULTING ENGINEER/CITY SHALL NOTIFY THE CITY OF THE NECESSARY CHANGES.
- 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, ENGINEERING AND CONSTRUCTION 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 FIVE WORKING DAYS PRIOR TO THE COMMENCEMENT OF ANY OF THE WORK.
- THE REMOVAL OF TREES REQUIRES THE APPROVAL OF PARKS, FORESTRY AND RECREATION DIVISION MARK VENTRESCA, 416-392-7390, SUPERVISOR, URBAN FORESTRY, TORONTO AND EAST YORK DISTRICT.
- 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 AND T.S. 5.10.
- 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 BETWEEN EXISTING AND LATEST STANDARD PAVEMENT STRUCTURE 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.
- CONCRETE SIDEWALK TO BE COMPLETE WITH 150mm GRANULAR BASE OR AS DIRECTED BY THE CITY INSPECTOR.

EROSION AND SEDIMENT CONTROL

- SEDIMENT BARRIERS, CHECK DAMS, AND TEMPORARY CONSTRUCTION ACCESS TO BE INSTALLED PRIOR TO THE BEGINNING OF CONSTRUCTION.
- ALL SEDIMENT CONTROL DEVICES TO BE ROUTINELY INSPECTED AND MAINTAINED IN PROPER WORKING ORDER UNTIL AREA IS STABILIZED.
- IF NECESSARY, TRUCKS WILL BE WASHED DOWN BEFORE LEAVING THE SITE.
- THE SITE WILL BE WET DOWN IF NECESSARY TO CONTROL DUST.
- ALL CONSTRUCTION EQUIPMENT MUST BE PARKED ON-SITE.
- ALL CONSTRUCTION ACTIVITY WILL COMPLY WITH CITY OF TORONTO NOISE BYLAW.
- SEDIMENT CONTROL FENCE TO BE AS PER CITY OF TORONTO STANDARD T-219.130-1.
- ALL CONSTRUCTION VEHICLES TO ENTER AND EXIT SITE FROM TEMPORARY CONSTRUCTION ACCESS.
- ALL TOPSOIL STOCKPILES TO BE SURROUNDED WITH SEDIMENT CONTROL FENCING.
- FILTER FABRIC TO BE PLACED UNDER GRATES ON ALL CATCHBASINS TO TRAP SEDIMENT. SILT TRAPS ARE TO BE CLEANED REGULARLY AND ARE NOT TO BE REMOVED UNTIL SUCH TIME AS THE CURBS ARE CONSTRUCTED AND THE BOULEVARDS ARE SODDED OR BACKYARDS GRADED AND SODDED. FILTER FABRIC FOR SILT CONTROL TO BE TERRA FIX 270R OR APPROVED EQUIVALENT.
- FILTER CLOTH WILL BE PLACED ON THE CATCHBASINS ON PUBLIC STREET ACROSS THE PROPERTY'S FRONTAGE.
- IN THE CASE OF ANY CONFLICT WITH ANOTHER PLAN, THIS PLAN PREVAILS ONLY IN RESPECT TO CONSTRUCTION MEASURES AND ACTIVITIES SUCH AS THE CONSTRUCTION ACCESS, SILT FENCE, SECURITY FENCING, SEDIMENT CONTROL, AND MUD MATS.
- STREET SWEEPING, CATCH BASIN CLEANING AND DUST CONTROL ARE THE RESPONSIBILITY OF THE DEVELOPER AND MUST BE KEPT UNDER CONTROL ON ALL ROADWAYS TO THE SATISFACTION OF THE CITY.

FIELD TESTING

- UPON COMPLETION OF THE BELOW GRADE SERVICES THE OWNER SHALL PROVIDE TO THE CITY THE CCTV INSPECTION AND PERFORM RING DEFLECTION TESTING TO THE SATISFACTION OF THE EXECUTIVE DIRECTOR OF TECHNICAL SERVICES. THE TESTING SHALL BE AS PER OPSS 409 & 410 AND THE CITY SPECIFICATION T.S. 409 & 410. NOTE THE MANDREL FOR THE DEFLECTION TEST SHALL BE PULLED MANUALLY THROUGH THE PIPE NOT SOONER THAN 30 DAYS AFTER THE COMPLETION OF BACKFILLING AND INSTALLATION OF SERVICE CONNECTIONS.
- IF REQUIRED, ADDITIONAL TESTING (i.e. INFILTRATION, INFILTRATION, AIR, WATER, ETC.) SHALL BE AS PER OPSS 410 AND CITY SPECIFICATION T.S. 410.
- 6 MONTHS PRIOR TO THE END OF THE MAINTENANCE PERIOD AND TOP SURFACE ASPHALT THE OWNER SHALL PROVIDE THE CITY A CCTV INSPECTION AS PER OPSS 409 AND CITY SPECIFICATION T.S. 409. ANY DEFICIENCIES SHALL BE CORRECTED PRIOR TO FINAL CLEARANCE BEING ISSUED.
- THE CONSULTING ENGINEER WILL ARRANGE, AT THE OWNER'S EXPENSE, FOR ALL QUANTITATIVE AND QUALITATIVE LABORATORY TESTS OF ANY MATERIALS USED IN CONJUNCTION WITH THE CONSTRUCTION OF THE SERVICES AND ROADS BY A CERTIFIED TESTING FIRM, AND PROVIDE COPIES OF ALL REPORTS TO THE ENGINEERING AND CONSTRUCTION SERVICES. AT THE PRE-CONSTRUCTION MEETING THE CONSULTANT ENGINEER, OWNER, CITY INSPECTOR AND THIRD PARTY TESTING COMPANY SHALL DISCUSS THE TESTING REQUIREMENTS AND PROTOCOLS.



BENCHMARK
ELEVATIONS SHOWN HEREON ARE GEODETIC AND ARE REFERRED TO THE CITY OF TORONTO BENCHMARK No. CT1611, HAVING A PUBLISHED ELEVATION OF 95.938 METRES.

STORM AND SANITARY
ECA APPROVAL No. 8015-9LUU3W

WATERMIAN
APPROVED ON JUNE 23, 2014

CONTRACTOR TO BE RESPONSIBLE FOR LOCATION OF ALL EXIST'G U/G & OVERHEAD UTILITIES. VARIOUS UTILITIES CONCERNED TO BE GIVEN REQUIRED ADVANCE NOTICE PRIOR TO ANY DIGGING, FOR STAKE OUT. THE CONSULTANT ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF EXISTING UTILITIES AS INDICATED ON THIS DRAWING.

TOPOGRAPHY BY MMM Geomatics Ontario Ltd. (Sept. 17, 2009)

DIGITAL INFORMATION				
No.	DATE	REVISIONS	INITIAL	SIGNED
8.	15/JUL/14	ISSUE FOR FINAL APPROVAL		R.S.
7.	16/MAY/14	REVISED AS PER MOE COMMENTS		R.S.
6.	14/MAY/14	UTILITY SIGN OFF		R.S.
5.	07/MAR/14	ISSUE FOR MOE		R.S.
4.	13/FEB/14	ISSUE FOR TENDER		R.S.
3.	04/DEC/13	THRID SUBMISSION		R.S.
2.	19/AUG/13	SECOND SUBMISSION		R.S.
1.	15/FEB/13	FIRST SUBMISSION		R.S.

The Sernus Group Inc. (a GHD Company)
11 Alkate Parkway, Suite 310
Markham, ON L3R 9T8

T: 905.752.4300
F: 905.752.4301
www.ghd.com

REGISTERED PROFESSIONAL ENGINEER
M. R. SERRAO
100165679
PROVINCE OF ONTARIO

Toronto ENGINEERING AND CONSTRUCTION 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.

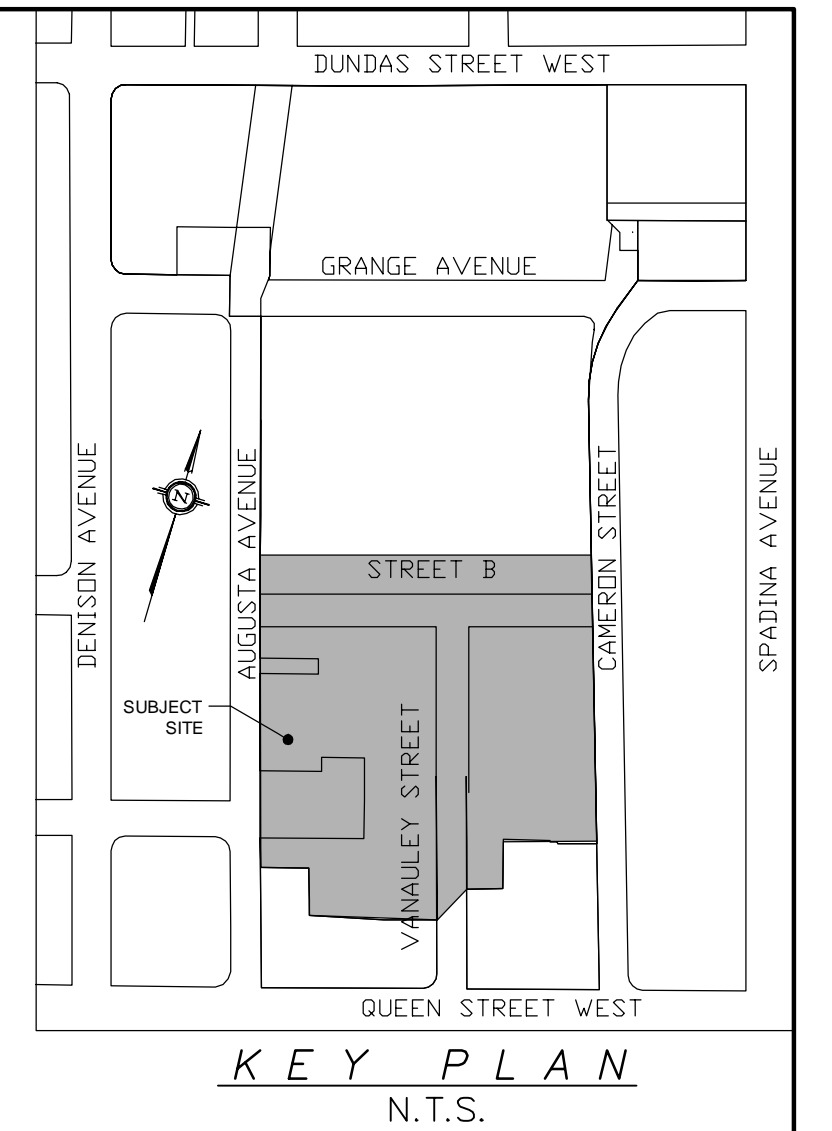
MANAGER, ENGINEERING REVIEW _____ DATE: _____

ALEXANDRA PARK GENERAL NOTES

DESIGN	D.C.	DRAWN	D.C.	CHECKED	J.F.	CONTRACT No. 13011
SCALE:	N.T.S.		CITY DRAWING NO.			DRAWING NUMBER
DATE:	DECEMBER 2013		X-XXX-XXX			GN-1

GENERAL NOTES

- MINIMUM COVER ON WATERMAIN TO BE 1.80m UNLESS OTHERWISE SHOWN.
- FLOWS IN THE EXISTING SANITARY AND STORM LINES ON VANAULEY STREET TO BE MAINTAINED WITH BY-PASS PUMPING AND/OR INTRIM FLOW DIVERSION AS REQUIRED.
- FOR BEDDING OF NEW PIPE SEE DRAWING No. OPSD 802.03
- ATTENTION IS ALSO DIRECTED TO THE POSSIBILITY THAT THE EXISTING PIPE MAY BE OVERSIZED AND THAT ANY ADJUSTMENTS ARE TO BE DONE AT THE CONTRACTOR'S EXPENSE.
- ABANDONED WATER PIPES CROSSING THE LINE OF CONSTRUCTION TO BE REMOVED COMPLETELY.
- EXISTING V.C.S. IF REQUIRED ARE TO BE BROKEN DOWN TO 0.90m BELOW GRADE AND BACKFILL WITH GRANULAR 'B' MATERIAL. THE COVERS, FRAMES AND VALVES ARE TO BE DISPOSED OF BY THE CONTRACTOR AT THERE OWN EXPENSE.
- EXISTING HYDRANT NUMBER 1 AND 2 TO BE RECONNECTED AS SHOWN ON PLAN. EXISTING HYDRANTS 3, 4 AND 5 AND CONTROL VALVES ARE TO BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AS PER CONTRACT.
- CONTRACTOR TO PROVIDE INSULATION WHERE SHOWN, OR AS PER DRAWING No. T-708.01-4.
- ALL PIPE JOINTS AT HORIZONTAL, VERTICAL BENDS AND FITTINGS TO BE RESTRAINED.
- CONTRACTOR TO INSTALL THRUST BLOCK AND ANCHOR WITH STRAP AT ALL TEES, PLUGS, HORIZONTAL AND VERTICAL BENDS. FOR THRUST BLOCK DETAILS SEE STANDARD DRAWING No. T1103.01 AND T1103.02
- CONTRACTOR IS EXPECTED TO DEFLECT WATERMAIN AND WATER SERVICE CONNECTIONS UNDER THE EXISTING CATCH BASINS LEADS, FIRE HYDRANT LEADS AND MAINTAIN A 0.5m CLEARANCE BETWEEN CATCH BASIN LEADS AND WATERMAIN.
- AT ALL LOCATIONS WHERE THE PROPOSED WATERMAIN CROSSES UNDER OR ABOVE THE EXISTING SEWERS, OR UTILITIES, GRANULAR 'A' BEDDING MATERIAL IS TO EXTEND FROM THE LOWER PIPE TO THE TOP OF THE UPPER PIPE. GRANULAR 'A' TO BE COMPACTED TO MINIMUM 98% SPMD.
- CONTRACTOR TO PROVIDE ADEQUATE SUPPORT DURING CONSTRUCTION AND A MINIMUM OF 300mm VERTICAL CLEARANCE BETWEEN NEW WATERMAIN AND EXISTING GAS MAINS. MINIMUM 600mm VERTICAL CLEARANCE BETWEEN NEW WATERMAIN AND GAS MAIN LARGER THAN 300mm DIAMETER.
- ALL EXISTING WATER SERVICES, LOCATION SHOWN ON PLAN FROM CITY RECORDS, ARE APPROXIMATE ONLY. CONTRACTOR TO CONFIRM EXACT LOCATION.
- ALL WATER SERVICE BOXES TO BE REMOVED AND REPLACED AT THE STREET LINE, OR AS DIRECTED BY THE CITY.
- WATER SERVICES**
WATER SUPPLY TO ALL BUILDINGS FED FROM EXISTING WATERMAIN IS TO BE MAINTAINED DURING CONSTRUCTION OF NEW WATERMAIN.
ALL EXISTING LIVE WATER SERVICES ARE TO BE CONNECTED TO THE NEW WATERMAIN AFTER CHLORINATION HAS BEEN SATISFACTORILY COMPLETED. THE EXISTING LIVE WATER SERVICES THAT ARE EXPOSED SHALL BE INSPECTED BY THE CITY.
ALL NEW WATER SERVICES CROSSING EXISTING SEWERS ARE TO BE INSULATED AT CROSSING WHERE THE COVER IS LESS THAN 1.70m AS PER DRAWING No. T-708.01-04.
ZINC ANODE TYPE 2-12.24 TO BE INSTALLED ON NEW COPPER WIRE SERVICES.
ALL NEW 19mm, 25mm, 37mm, 50mm, AND LARGER WATER SERVICES ARE TO BE INSTALLED IN ACCORDANCE WITH STANDARD DRAWING No. T-1104.01, T-1104.02-1, AND T-1104.02-2 RESPECTIVELY, FROM THE NEW WATERMAIN TO THE PROPERTY LINE.
- ALL DIMENSIONS ARE EXPRESSED IN METERS (m) AND PIPE SIZES ARE IN MILLIMETRES (mm) UNLESS OTHERWISE NOTED.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT 'OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS'.
- CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF TORONTO STANDARDS AND SPECIFICATIONS FOR SEWERS, WATERMANS, SIDEWALK, PAVEMENT, AND CURB UNLESS OTHERWISE NOTED.
- ALL EXCESS EXCAVATED MATERIAL TO BE DISPOSED OFFSITE, TO A SITE ARRANGED FOR BY THE CONTRACTOR.
- EXISTING ROADS, CURBS, SIDEWALKS, PAVED AND SODDED AREAS DISTURBED DURING CONSTRUCTION TO BE REPLACED IN KIND TO THE SATISFACTION OF THE CITY.
- 48 HOURS PRIOR TO EXCAVATION IN THE VICINITY OF AND TRUNK STORM SEWERS, TRUNK SANITARY SEWERS, OR TRUNK WATERMANS, CONTRACTOR TO NOTIFY CITY OF TORONTO TRUNK COLLECTION AND INSPECTION AT (416) 392-8867, SO THAT THE INSPECTOR(S) MAY BE PRESENT NO SITE.
- CONTRACTOR SHALL NOTE THAT WORK SHALL CONFIRM TO CLAUSE 10.2-UNDERMINING OF PIPE AND PIPE SUPPORT, CAST IRON TRUNK WATERMAIN, IN THE CITY'S DOCUMENT ENTITLED 'REQUIREMENTS FOR CONSTRUCTION WORK NEAR WORKS FACILITIES AND STRUCTURES, TRUNKS SEWERS AND WATERMANS.
- REFERENCE TO STANDARDS, AND/OR, NOTES ON PLAN MAY BE SUPPORTED BY SPECIAL SPECIFICATIONS.
- NOTE THAT OVERHEAD WIRES FOR TTC STREET CARS ARE PRESENT ON QUEEN STREET WEST.
- CONTRACTORS TO PROVIDE ELECTRICAL CONDUCTIVITY ON NEW WATERMAIN, (TRACE WIRE)
- ABANDONED GAS MAIN FOUND ALONG LINE OF CONSTRUCTION TO BE REMOVED COMPLETELY. INSTALL 150mm THICK CONCRETE BULKHEAD IN OPEN END OF MAIN BEING REMOVED.
- ACCESS TO BLOCK 13 MUST BE MAINTAIN AT ALL TIMES. A GRAVEL DRIVEWAY IS TO BE PLACED IMMEDIATELY FOLLOWING THE SEWER INSTALLATION, MINIMUM WIDTH 8.0m.



- NOTE**
- MEASUREMENTS IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE SHOWN.
 - ALL UTILITIES, SEWERS AND WATERMAIN WITHIN PHASE 1B SHALL BE MAINTAINED DURING CONSTRUCTION OF PHASE 1A.
 - ALL EXISTING INFRASTRUCTURE WITHIN PHASE 1A TO BE REMOVED AND DISPOSED OFF-SITE UNLESS NOTED OTHERWISE.
 - ALL EXISTING INFRASTRUCTURE WITHIN PHASE 1B TO BE MAINTAINED UNLESS NOTED OTHERWISE.

BENCHMARK
ELEVATIONS SHOWN HEREON ARE GEODETIC AND ARE REFERRED TO THE CITY OF TORONTO BENCHMARK N o. CT1611, HAVING A PUBLISHED ELEVATION OF 95.938 METRES.

STORM AND SANITARY
ECA APPROVAL No. 8015-9LUU3W

WATERMIAN
APPROVED ON JUNE 23, 2014

CONTRACTOR TO BE RESPONSIBLE FOR LOCATION OF ALL EXIST'G U/G & OVERHEAD UTILITIES. VARIOUS UTILITIES CONCERNED TO BE GIVEN REQUIRED ADVANCE NOTICE PRIOR TO ANY DIGGING, FOR STAKE OUT. THE CONSULTANT ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF EXISTING UTILITIES AS INDICATED ON THIS DRAWING.

TOPOGRAPHY BY MMM Geomatics Ontario Ltd. (Sept. 17, 2009)

DIGITAL INFORMATION			
No.	DATE	REVISIONS	INITIALSIGNED
8.	15/JUL/14	ISSUE FOR FINAL APPROVAL	R.S.
7.	16/MAY/14	REVISED AS PER MOE COMMENTS	R.S.
6.	14/MAY/14	UTILITY SIGN OFF	R.S.
5.	07/MAR/14	ISSUE FOR MOE	R.S.
4.	13/FEB/14	ISSUE FOR TENDER	R.S.
3.	04/DEC/13	THIRD SUBMISSION	R.S.
2.	19/AUG/13	SECOND SUBMISSION	R.S.
1.	15/FEB/13	FIRST SUBMISSION	R.S.

The Sernas Group Inc. (a GHD Company)
11 Alibon Parkway, Suite 310
Markham, ON L3R 9T8
T: 905.752.4300
F: 905.752.4301
www.ghd.com

M. R. SERRAO
100165679
LICENSED PROFESSIONAL ENGINEER
PROVINCE OF ONTARIO

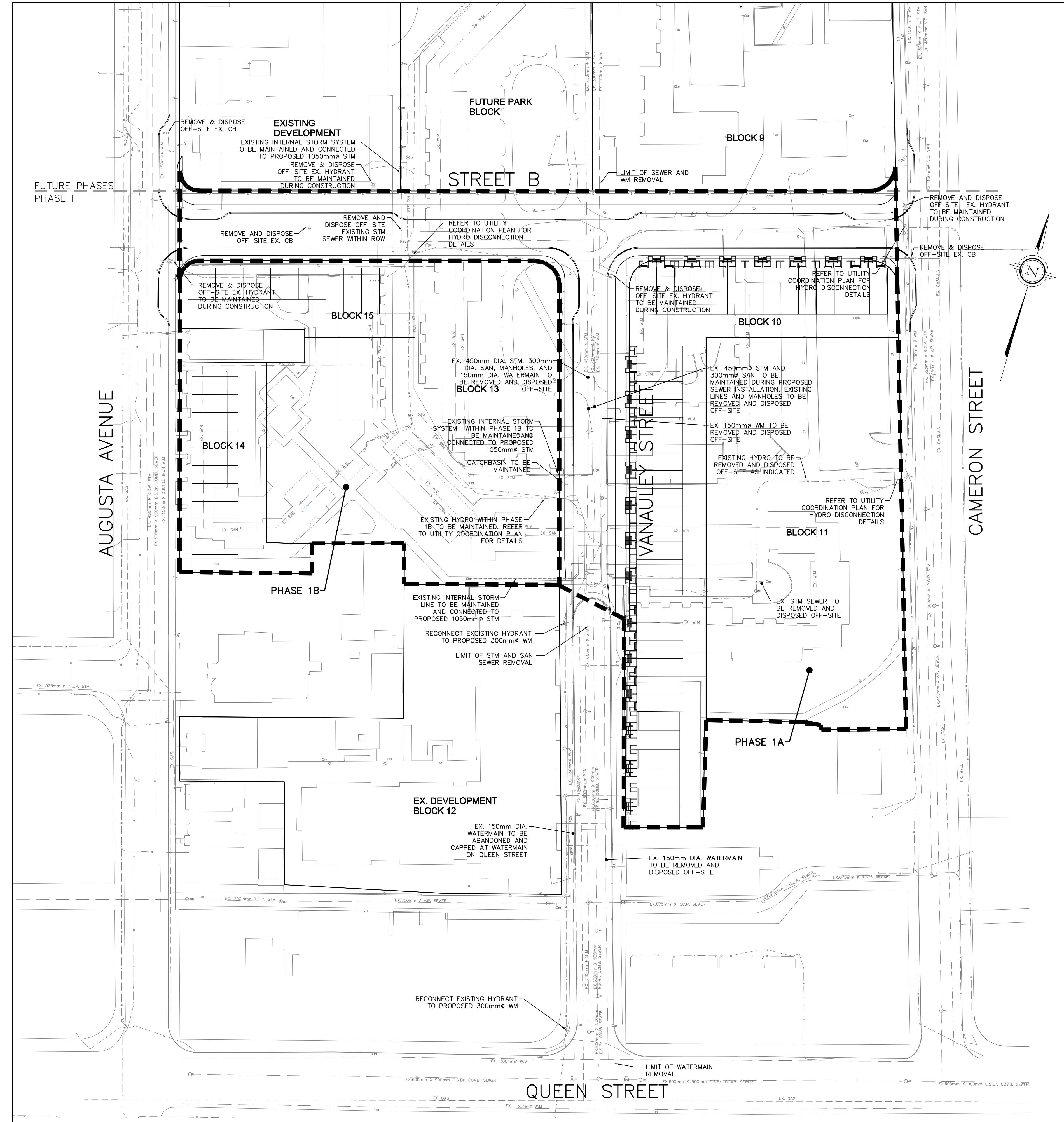
Toronto ENGINEERING AND CONSTRUCTION SERVICES DIVISION

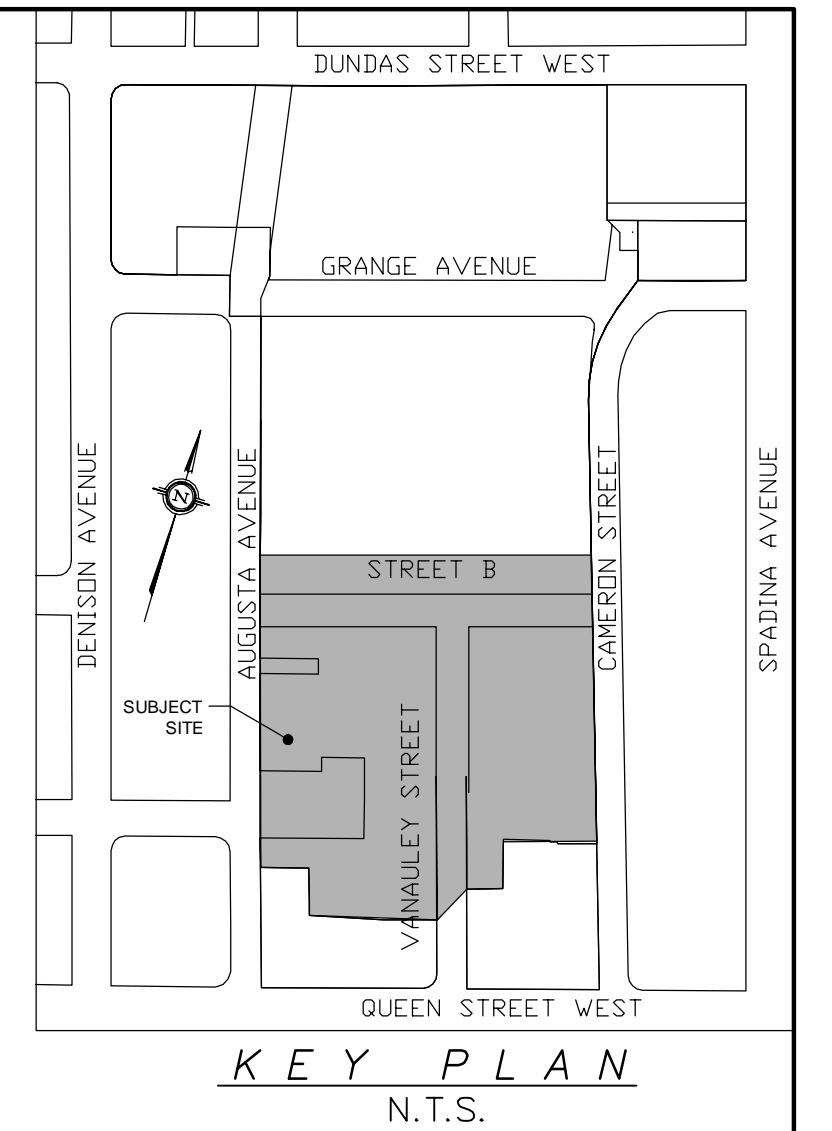
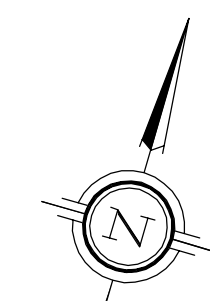
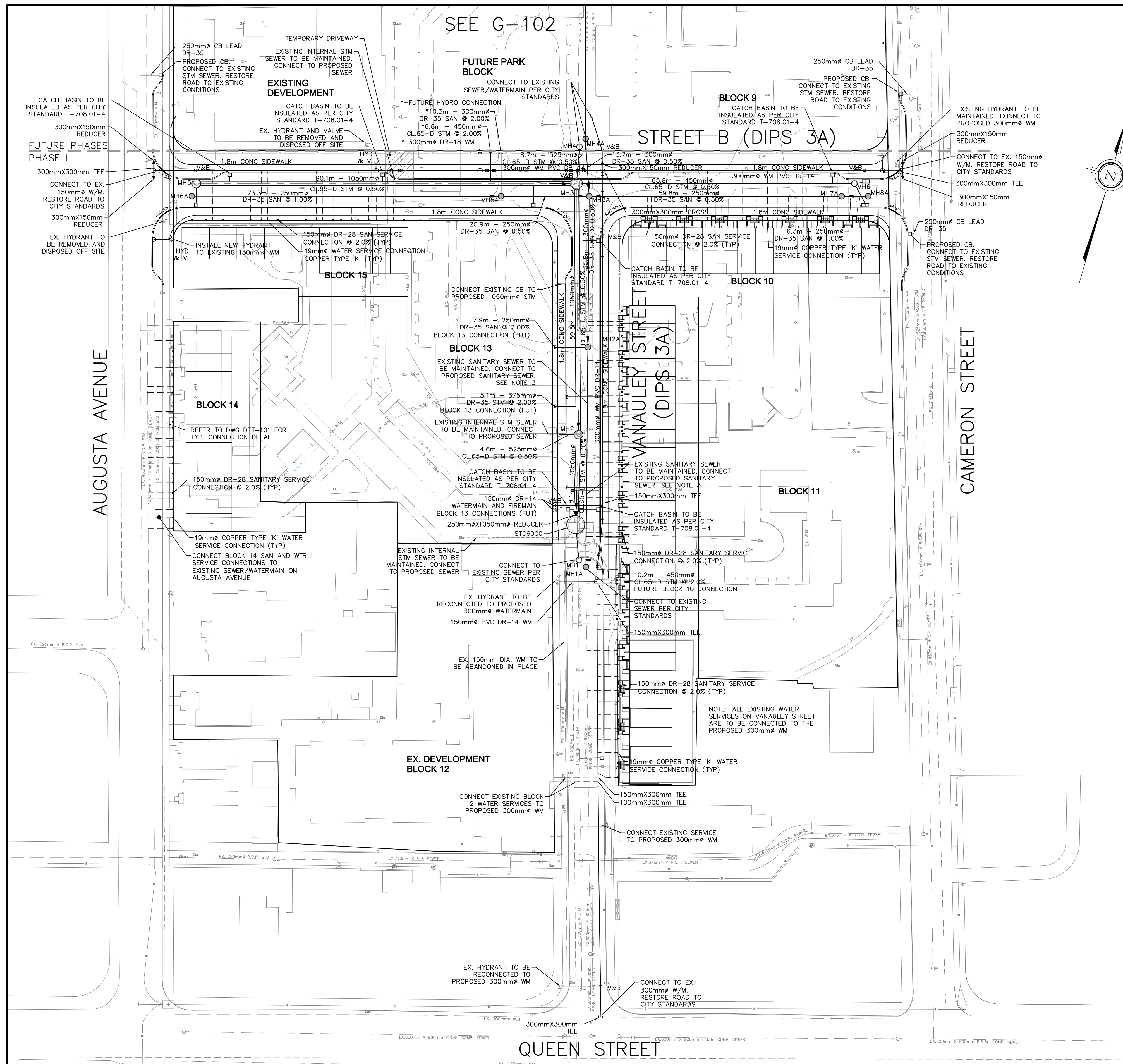
ACCEPTED TO BE IN ACCORDANCE WITH THE CITY OF TORONTO STANDARDS. THIS ACCEPTANCE IS NOT TO BE CONSTRUED AS VERIFICATION OF ENGINEERING CONTENT.

MANAGER, ENGINEERING REVIEW _____ DATE: _____

**ALEXANDRA PARK
EXISTING CONDITIONS PLAN - PHASE I**

DESIGN	D.C.	DRAWN	D.C.	CHECKED	J.F.	CONTRACT No. 13011
SCALE:	1:500	CITY DRAWING NO.			DRAWING NUMBER	
DATE:	DECEMBER 2013	X-XXX-XXX			REM-101	





LEGEND

- SANITARY SEWER MANHOLE
- STORM SEWER MANHOLE
- CATCHBASIN
- ▣ DOUBLE CATCHBASIN
- ◻ COMMUNITY MAILBOX
- ▣ TRANSFORMER VAULT
- ▣ HYDRO TAP BOXES
- STREETLIGHT
- ⊕ HYDRANT AND VALVE
- ⊕ VALVE AND CHAMBER
- ⊕ VALVE AND BOX
- CURB STOP
- PROPERTY LINE
- - - WATER SERVICE CONNECTION
- SANITARY SERVICE CONNECTION

NOTE

1. MEASUREMENTS IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE SHOWN.
2. SITE SERVICING AND SITE GRADING FOR BLOCKS 10, 11, 13, 14, 15 ARE SUBMITTED UNDER SEPARATE SITE PLAN APPLICATION.
3. EXISTING SANITARY SEWER TO BE CONNECTED TO PROPOSED SEWER VIA TEMPORARY TEE CONNECTION. TEE CONNECTION TO BE ABANDONED AND CAPPED AT MAIN DURING CONSTRUCTION OF FUTURE UNITS WEST OF VANAULEY.
4. SEE REM-101 FOR EXISTING CONDITIONS

BENCHMARK

ELEVATIONS SHOWN HEREON ARE GEODETIC AND ARE REFERRED TO THE CITY OF TORONTO BENCHMARK N.O. CT1611, HAVING A PUBLISHED ELEVATION OF 95.938 METRES.

STORM AND SANITARY

ECA APPROVAL No. 8015-9LUU3W

WATERMIAN

APPROVED ON JUNE 23, 2014

CONTRACTOR TO BE RESPONSIBLE FOR LOCATION OF ALL EXIST'G U/G & OVERHEAD UTILITIES. VARIOUS UTILITIES CONCERNED TO BE GIVEN REQUIRED ADVANCE NOTICE PRIOR TO ANY DIGGING, FOR STAKE OUT. THE CONSULTANT ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF EXISTING UTILITIES AS INDICATED ON THIS DRAWING.

TOPOGRAPHY BY MMM Geomatics Ontario Ltd. (Sept. 17, 2009)

DIGITAL INFORMATION			
No.	DATE	REVISIONS	INITIALSIGNED
8.	15/JUL/14	ISSUE FOR FINAL APPROVAL	R.S.
7.	16/MAY/14	REVISED AS PER MOE COMMENTS	R.S.
6.	14/MAY/14	UTILITY SIGN OFF	R.S.
5.	07/MAR/14	ISSUE FOR MOE	R.S.
4.	13/FEB/14	ISSUE FOR TENDER	R.S.
3.	04/DEC/13	THRID SUBMISSION	R.S.
2.	19/AUG/13	SECOND SUBMISSION	R.S.
1.	15/FEB/13	FIRST SUBMISSION	R.S.

The Sernas Group Inc. (a GHD Company)
11 Alibabto Parkway, Suite 310
Markham, ON L3R 9T8
T: 905.752.4300
F: 905.752.4301
www.ghd.com

M. R. SERRAO
100165679
LICENSED PROFESSIONAL ENGINEER
PROVINCE OF ONTARIO

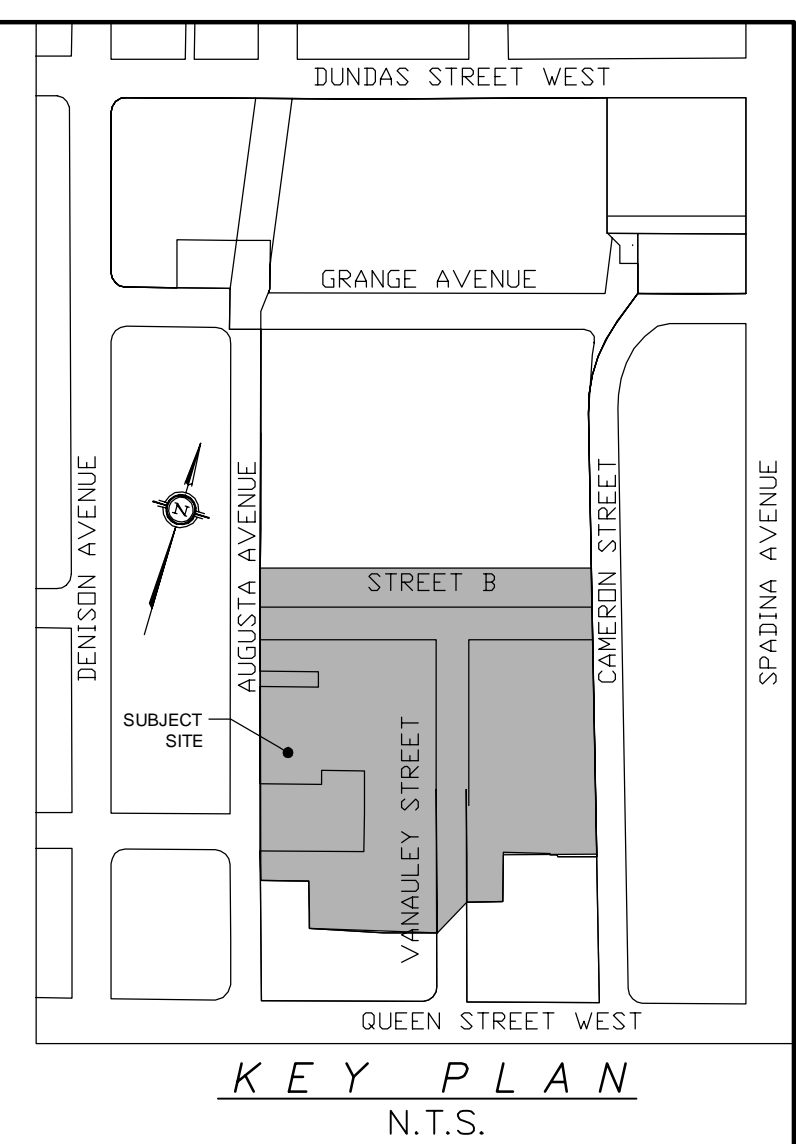
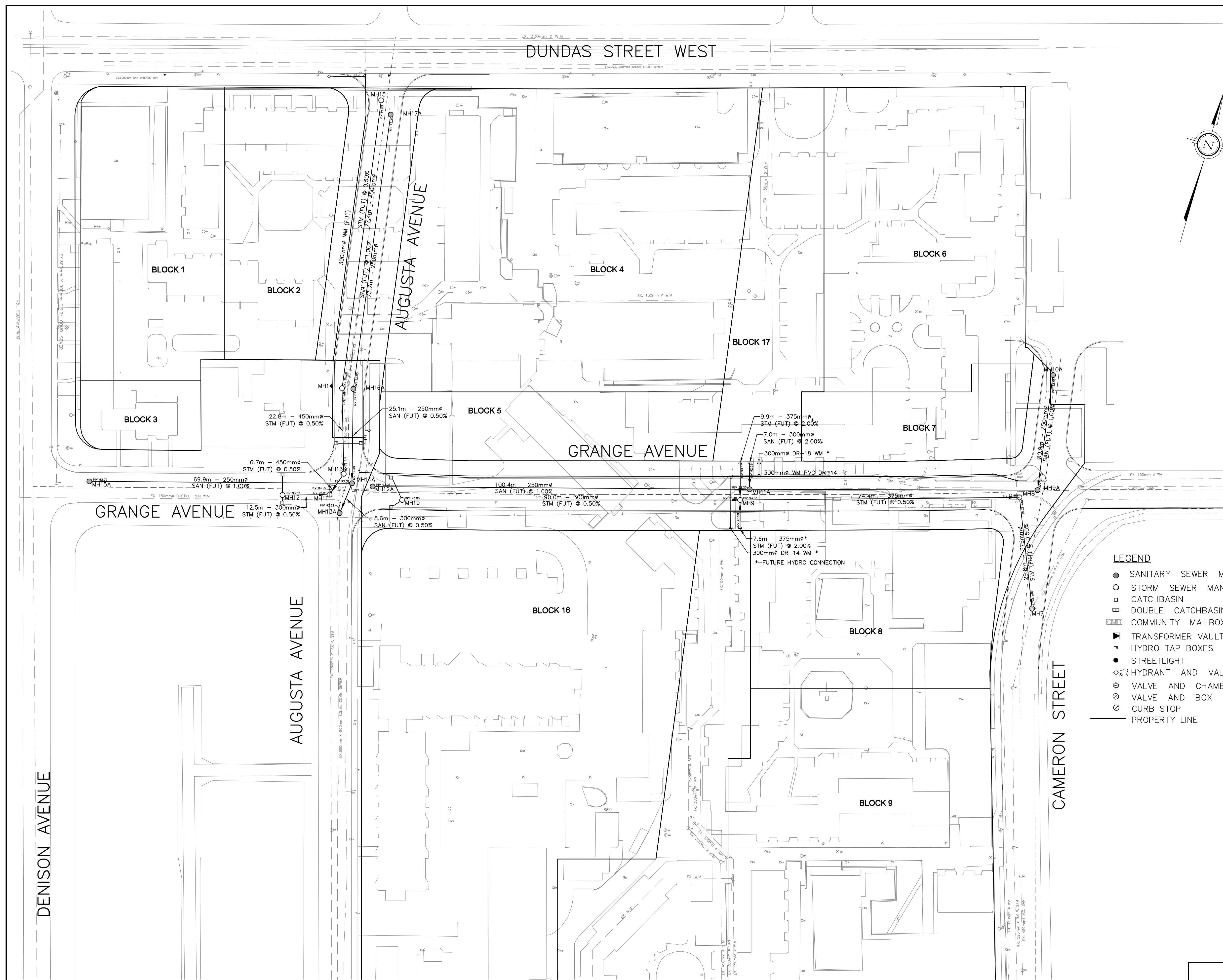
Toronto ENGINEERING AND CONSTRUCTION SERVICES DIVISION

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

MANAGER, ENGINEERING REVIEW _____ DATE: _____

**ALEXANDRA PARK
GENERAL PLAN - PHASE I**

DESIGN	D.C.	DRAWN	D.C.	CHECKED	J.F.	CONTRACT No. 13011
SCALE:	1:500	CITY DRAWING NO.			DRAWING NUMBER	
DATE:	DECEMBER 2013	X-XXX-XXX			G-101	



NOTE
 1. MEASUREMENTS IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE SHOWN.

BENCHMARK
 ELEVATIONS SHOWN HEREON ARE GEODETIC AND ARE REFERRED TO THE CITY OF TORONTO BENCHMARK N.O. CT1611, HAVING A PUBLISHED ELEVATION OF 95.938 METRES.

STORM AND SANITARY
 ECA APPROVAL No. 8015-9LUU3W

WATERMIAN
 APPROVED ON JUNE 23, 2014

CONTRACTOR TO BE RESPONSIBLE FOR LOCATION OF ALL EXIST'G U/G & OVERHEAD UTILITIES. VARIOUS UTILITIES CONCERNED TO BE GIVEN REQUIRED ADVANCE NOTICE PRIOR TO ANY DIGGING, FOR STAKE OUT. THE CONSULTANT ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF EXISTING UTILITIES AS INDICATED ON THIS DRAWING.

- LEGEND**
- SANITARY SEWER MANHOLE
 - STORM SEWER MANHOLE
 - CATCHBASIN
 - ▣ DOUBLE CATCHBASIN
 - ◻ COMMUNITY MAILBOX
 - ▣ TRANSFORMER VAULT
 - HYDRO TAP BOXES
 - STREETLIGHT
 - ⊕ HYDRANT AND VALVE
 - ⊗ VALVE AND CHAMBER
 - ⊙ VALVE AND BOX
 - CURB STOP
 - PROPERTY LINE

TOPOGRAPHY BY MMM Geomatics Ontario Ltd. (Sept. 17, 2009)

DIGITAL INFORMATION			
No.	DATE	REVISIONS	INITIALSIGNED
8.	15/JUL/14	ISSUE FOR FINAL APPROVAL	R.S.
7.	16/MAY/14	REVISED AS PER MOE COMMENTS	R.S.
6.	14/MAY/14	UTILITY SIGN OFF	R.S.
5.	07/MAR/14	ISSUE FOR MOE	R.S.
4.	13/FEB/14	ISSUE FOR TENDER	R.S.
3.	04/DEC/13	THIRD SUBMISSION	R.S.
2.	19/AUG/13	SECOND SUBMISSION	R.S.
1.	15/FEB/13	FIRST SUBMISSION	R.S.

The Sernas Group Inc. (a GHD Company)
 11 Alibon Parkway, Suite 310
 Markham, ON L3R 9T8
 T: 905.752.4300
 F: 905.752.4301
 www.ghd.com

Toronto ENGINEERING AND CONSTRUCTION SERVICES DIVISION

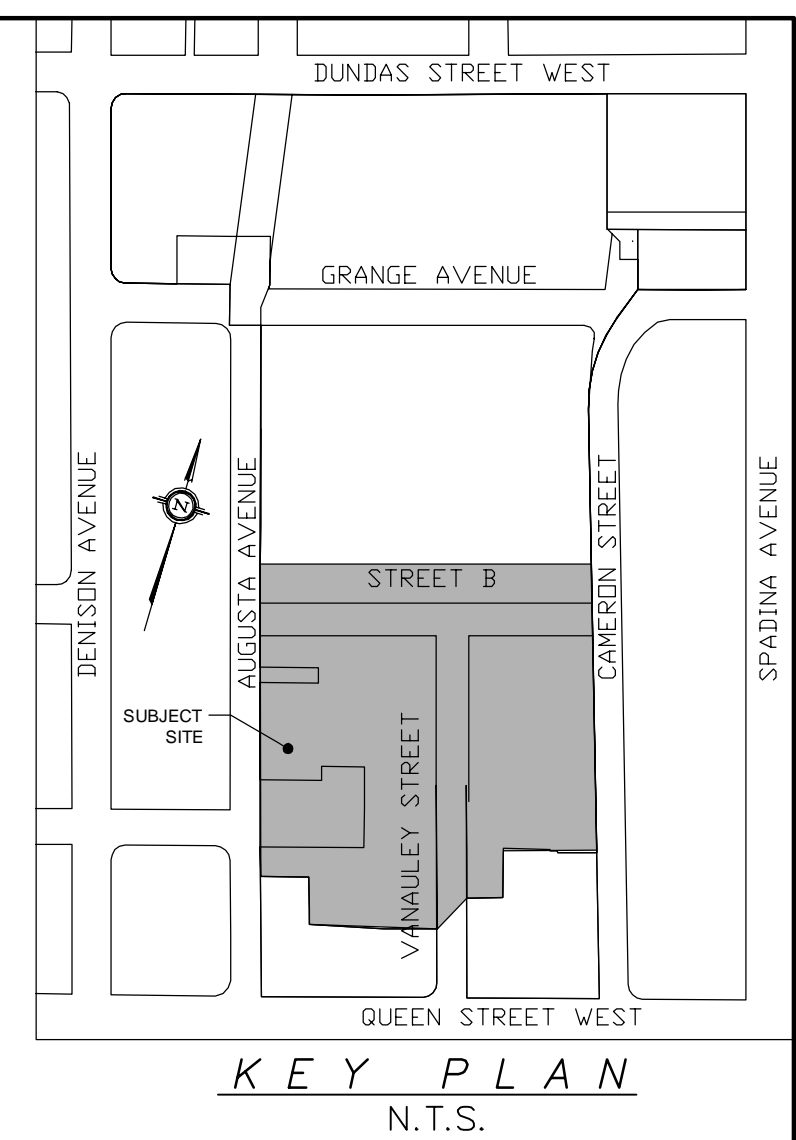
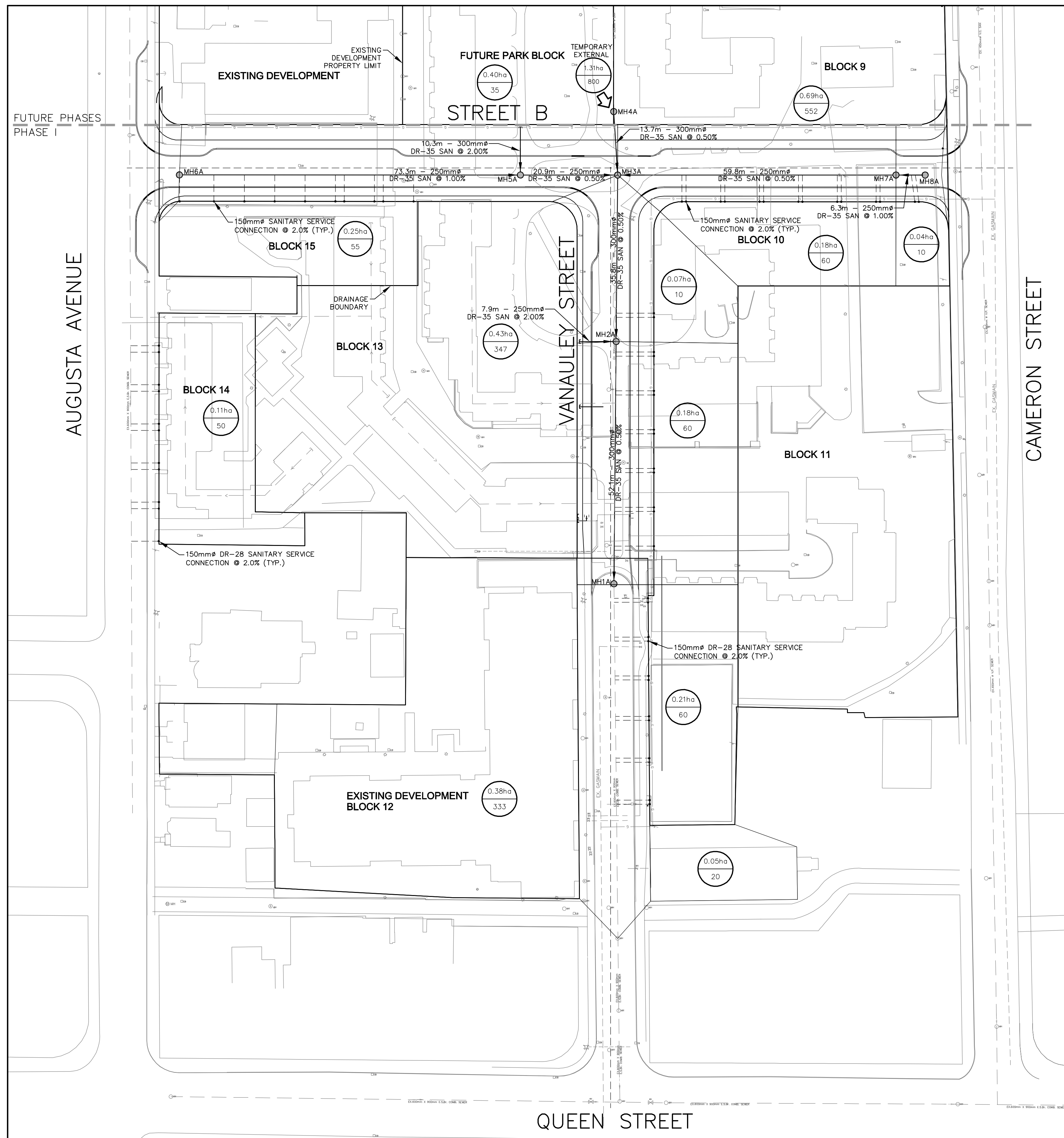
ACCEPTED TO BE IN ACCORDANCE WITH THE CITY OF TORONTO STANDARDS. THIS ACCEPTANCE IS NOT TO BE CONSTRUED AS VERIFICATION OF ENGINEERING CONTENT.

MANAGER, ENGINEERING REVIEW _____ DATE: _____

ALEXANDRA PARK
 GENERAL PLAN - FUTURE PHASES

DESIGN	D.C.	DRAWN	D.C.	CHECKED	J.F.	CONTRACT No. 13011
SCALE:	1:500	CITY DRAWING NO.				DRAWING NUMBER
DATE:	DECEMBER 2013	X-XXX-XXX				G-102

SEE G-101



NOTE
 1. MEASUREMENTS IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE SHOWN.

LEGEND

- SANITARY SEWER MANHOLE
- EXISTING SANITARY SEWER MANHOLE
- 1.20 Ha / 24 POPULATION
- SANITARY DRAINAGE BOUNDARY

BENCHMARK
 ELEVATIONS SHOWN HEREON ARE GEODETIC AND ARE REFERRED TO THE CITY OF TORONTO BENCHMARK No. CT1611, HAVING A PUBLISHED ELEVATION OF 95.938 METRES.

STORM AND SANITARY
 ECA APPROVAL No. 8015-9LUU3W

WATERMIAN
 APPROVED ON JUNE 23, 2014

CONTRACTOR TO BE RESPONSIBLE FOR LOCATION OF ALL EXIST'G U/G & OVERHEAD UTILITIES. VARIOUS UTILITIES CONCERNED TO BE GIVEN REQUIRED ADVANCE NOTICE PRIOR TO ANY DIGGING, FOR STAKE OUT. THE CONSULTANT ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF EXISTING UTILITIES AS INDICATED ON THIS DRAWING.

TOPOGRAPHY BY MMM Geomatics Ontario Ltd. (Sept. 17, 2009)

DIGITAL INFORMATION

No.	DATE	REVISIONS	INITIALSIGNED
8.	15/JUL/14	ISSUE FOR FINAL APPROVAL	R.S.
7.	16/MAY/14	REVISED AS PER MOE COMMENTS	R.S.
6.	14/MAY/14	UTILITY SIGN OFF	R.S.
5.	07/MAR/14	ISSUE FOR MOE	R.S.
4.	13/FEB/14	ISSUE FOR TENDER	R.S.
3.	04/DEC/13	THRID SUBMISSION	R.S.
2.	19/AUG/13	SECOND SUBMISSION	R.S.
1.	15/FEB/13	FIRST SUBMISSION	R.S.

The Semas Group Inc. (a GHD Company)
 11 Alibon Parkway, Suite 310
 Markham, ON L3R 9T8
 T: 905.752.4300
 F: 905.752.4301
 www.ghd.com



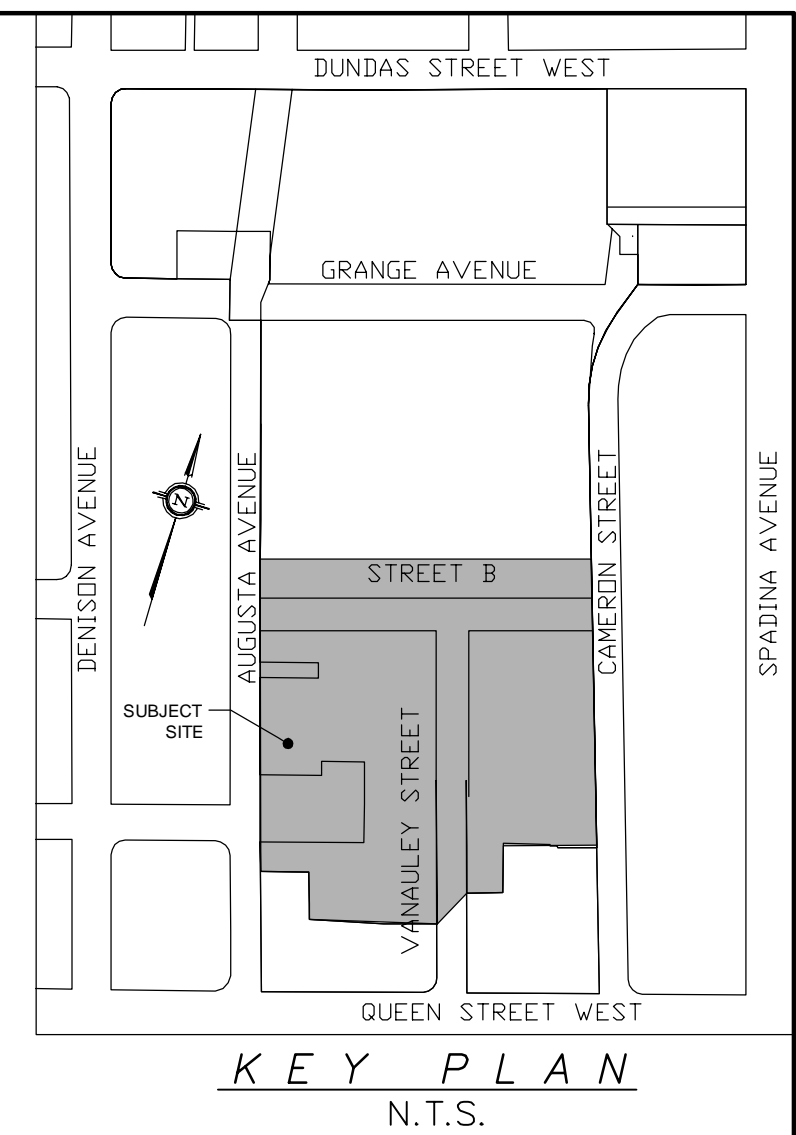
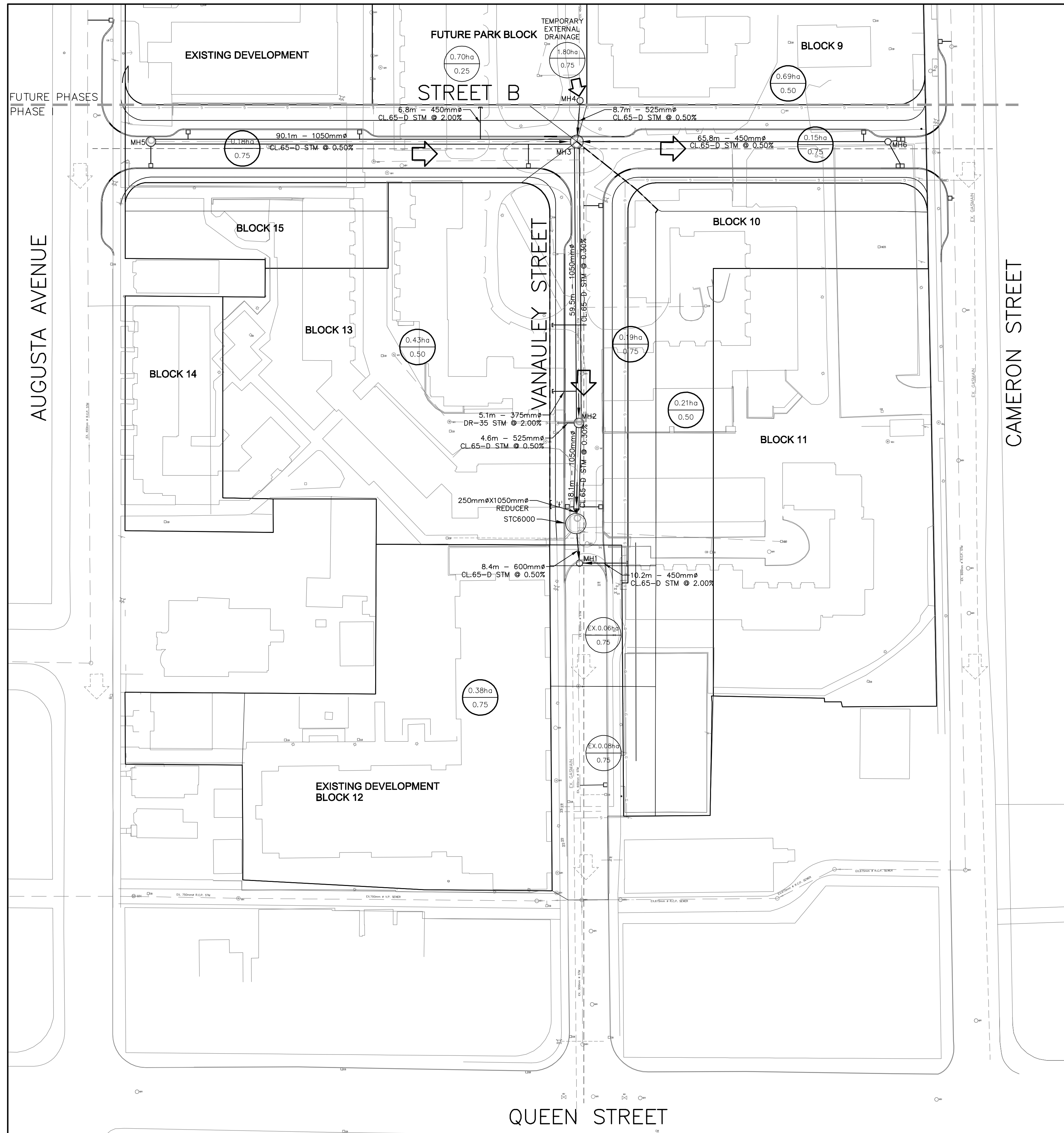

Toronto ENGINEERING AND CONSTRUCTION SERVICES DIVISION

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

MANAGER, ENGINEERING REVIEW _____ DATE: _____

ALEXANDRA PARK
SANITARY DRAINAGE PLAN - PHASE I

DESIGN	D.C.	DRAWN	D.C.	CHECKED	J.F.	CONTRACT No. 13011
SCALE:	1:500		CITY DRAWING NO.		DRAWING NUMBER	
DATE:	DECEMBER 2013		X-XXX-XXX		G-103	



- LEGEND**
- DRAINAGE AREA COEFFICIENT
 - OVERLAND FLOW ROUTE
 - STORM DRAINAGE BOUNDARY
 - EXISTING OVERLAND FLOW

NOTE
 1. MEASUREMENTS IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE SHOWN.

BENCHMARK
 ELEVATIONS SHOWN HEREON ARE GEODETIC AND ARE REFERRED TO THE CITY OF TORONTO BENCHMARK N.O. CT1611, HAVING A PUBLISHED ELEVATION OF 95.938 METRES.

STORM AND SANITARY
 ECA APPROVAL No. 8015-9LUU3W

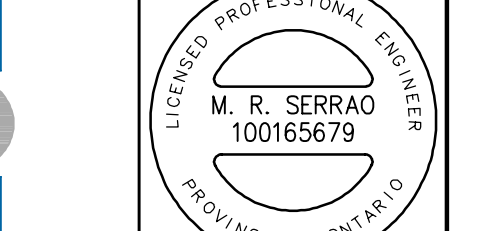
WATERMIAN
 APPROVED ON JUNE 23, 2014

CONTRACTOR TO BE RESPONSIBLE FOR LOCATION OF ALL EXIST'G U/G & OVERHEAD UTILITIES. VARIOUS UTILITIES CONCERNED TO BE GIVEN REQUIRED ADVANCE NOTICE PRIOR TO ANY DIGGING, FOR STAKE OUT. THE CONSULTANT ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF EXISTING UTILITIES AS INDICATED ON THIS DRAWING.

TOPOGRAPHY BY MMM Geomatics Ontario Ltd. (Sept. 17, 2009)

DIGITAL INFORMATION			
No.	DATE	REVISIONS	INITIALSIGNED
8.	15/JUL/14	ISSUE FOR FINAL APPROVAL	R.S.
7.	16/MAY/14	REVISED AS PER MOE COMMENTS	R.S.
6.	14/MAY/14	UTILITY SIGN OFF	R.S.
5.	07/MAR/14	ISSUE FOR MOE	R.S.
4.	13/FEB/14	ISSUE FOR TENDER	R.S.
3.	04/DEC/13	THRID SUBMISSION	R.S.
2.	19/AUG/13	SECOND SUBMISSION	R.S.
1.	15/FEB/13	FIRST SUBMISSION	R.S.

The Semas Group Inc. (a GHD Company)
 11 Alibon Parkway, Suite 310
 Markham, ON L3R 9T8
 T: 905.752.4300
 F: 905.752.4301
 www.ghd.com



Toronto ENGINEERING AND CONSTRUCTION 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.

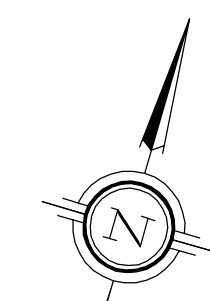
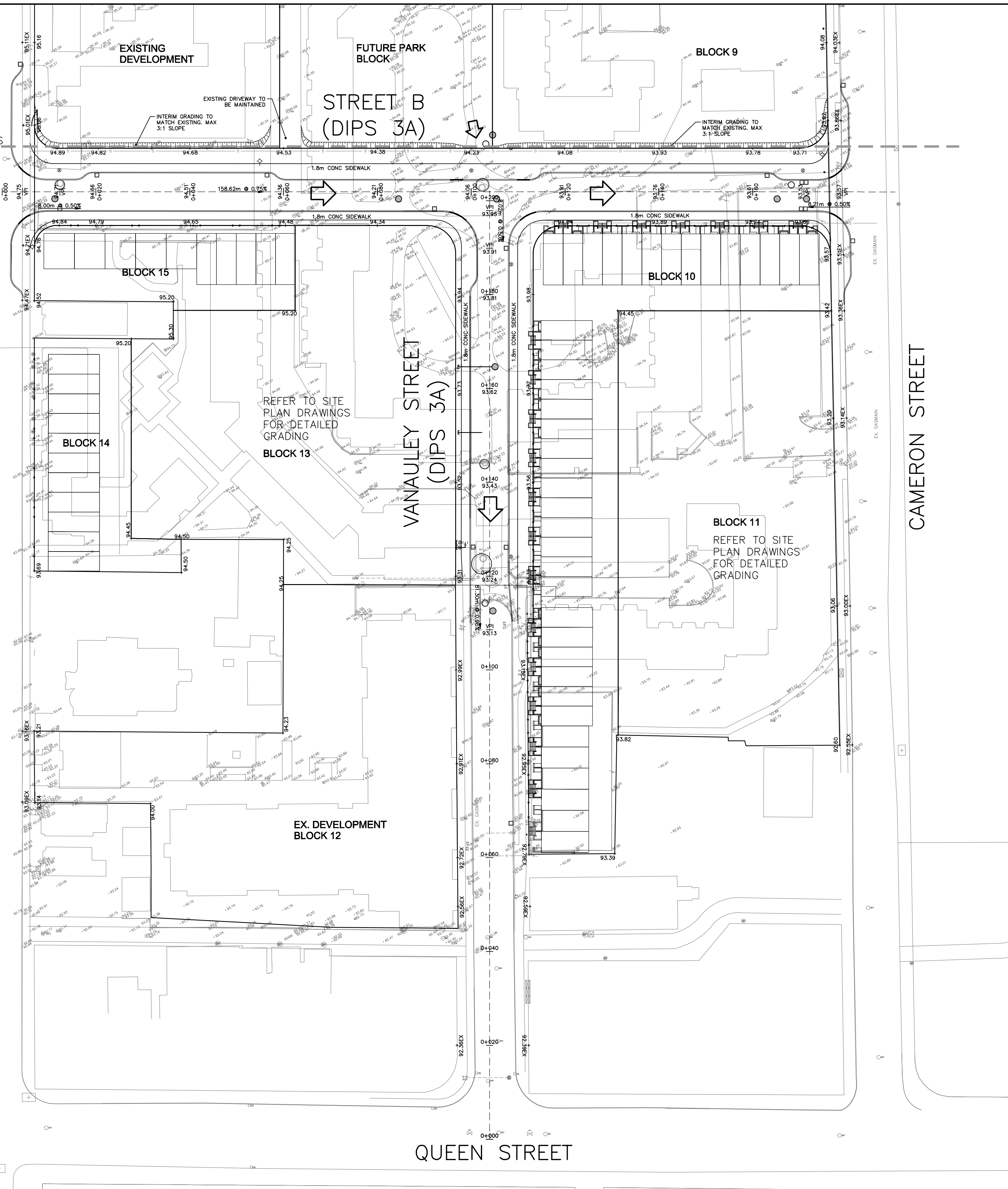
MANAGER, ENGINEERING REVIEW _____ DATE: _____

**ALEXANDRA PARK
 STORM DRAINAGE PLAN - PHASE I**

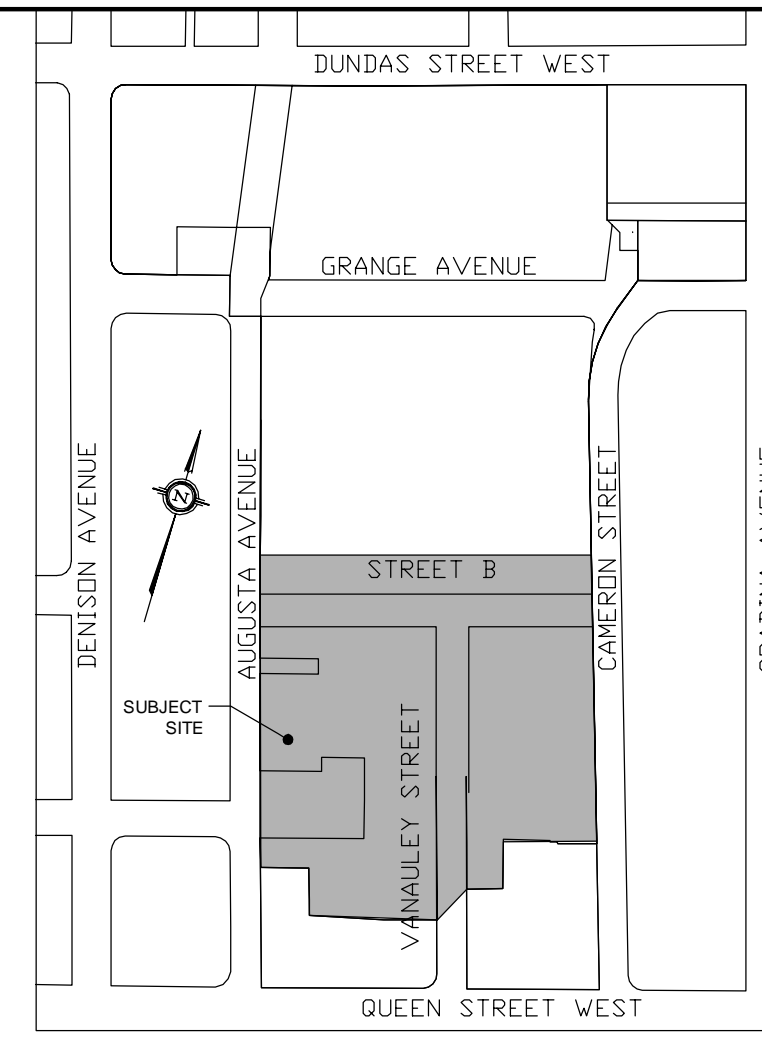
DESIGN	D.C.	DRAWN	D.C.	CHECKED	J.F.	CONTRACT No. 13011
SCALE:	1:500	CITY DRAWING NO.			DRAWING NUMBER	
DATE:	DECEMBER 2013	X-XXX-XXX			G-104	

FUTURE PHASE I

AUGUSTA AVENUE



- LEGEND**
- SANITARY SEWER MANHOLE
 - STORM SEWER MANHOLE
 - CATCHBASIN
 - ▣ DOUBLE CATCHBASIN
 - ✉ COMMUNITY MAILBOX
 - ▣ TRANSFORMER VAULT
 - HYDRO TAP BOXES
 - STREETLIGHT
 - ⊕ HYDRANT AND VALVE
 - ⊗ VALVE AND CHAMBER
 - ⊙ VALVE AND BOX
 - CURB STOP
 - PROPERTY LINE
 - ➔ OVERLAND FLOW ROUTE



KEY PLAN
N.T.S.

NOTE
1. MEASUREMENTS IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE SHOWN.

BENCHMARK
ELEVATIONS SHOWN HEREON ARE GEODETIC AND ARE REFERRED TO THE CITY OF TORONTO BENCHMARK N.O. CT1611, HAVING A PUBLISHED ELEVATION OF 95.938 METRES.

STORM AND SANITARY
ECA APPROVAL No. 8015-9LUU3W

WATERMIAN
APPROVED ON JUNE 23, 2014

CONTRACTOR TO BE RESPONSIBLE FOR LOCATION OF ALL EXIST'G U/G & OVERHEAD UTILITIES. VARIOUS UTILITIES CONCERNED TO BE GIVEN REQUIRED ADVANCE NOTICE PRIOR TO ANY DIGGING, FOR STAKE OUT. THE CONSULTANT ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF EXISTING UTILITIES AS INDICATED ON THIS DRAWING.

TOPOGRAPHY BY MMM Geomatics Ontario Ltd. (Sept. 17, 2009)

DIGITAL INFORMATION			
No.	DATE	REVISIONS	INITIALS
8.	15/JUL/14	ISSUE FOR FINAL APPROVAL	R.S.
7.	16/MAY/14	REVISED AS PER MOE COMMENTS	R.S.
6.	14/MAY/14	UTILITY SIGN OFF	R.S.
5.	07/MAR/14	ISSUE FOR MOE	R.S.
4.	13/FEB/14	ISSUE FOR TENDER	R.S.
3.	04/DEC/13	THRID SUBMISSION	R.S.
2.	19/AUG/13	SECOND SUBMISSION	R.S.
1.	15/FEB/13	FIRST SUBMISSION	R.S.

No.	DATE	REVISIONS	INITIALS

The Semas Group Inc. (a GHD Company)
11 Alibabato Parkway, Suite 310
Markham, ON L3R 9T8
T: 905.752.4300
F: 905.752.4301
www.ghd.com



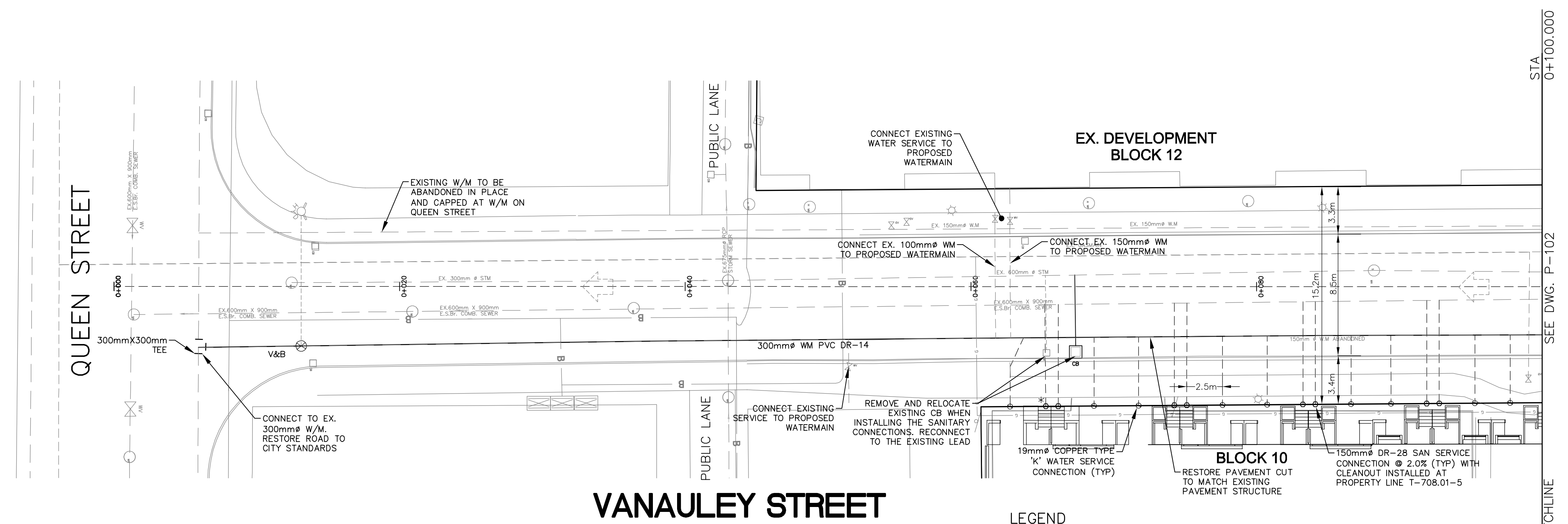
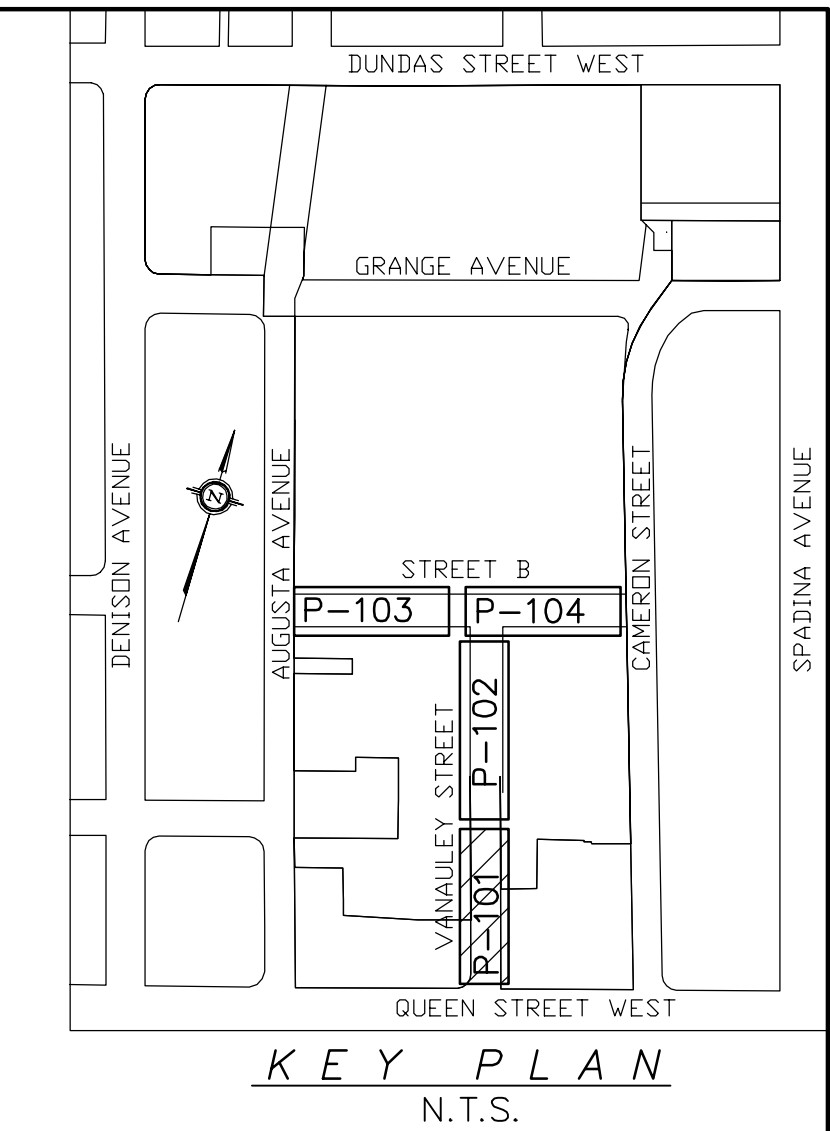
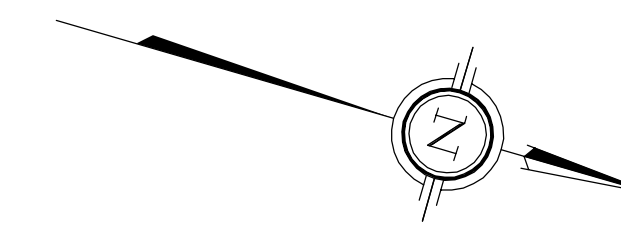
Toronto ENGINEERING AND CONSTRUCTION SERVICES DIVISION

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

MANAGER, ENGINEERING REVIEW _____ DATE: _____

**ALEXANDRA PARK
GRADING PLAN - PHASE I**

DESIGN	D.C.	DRAWN	D.C.	CHECKED	J.F.	CONTRACT No. 13011
SCALE:	1:500	CITY DRAWING NO.				DRAWING NUMBER
DATE:	DECEMBER 2013	X-XXX-XXX				L-101



VANAULEY STREET

LEGEND

- SANITARY SEWER MANHOLE
- STORM SEWER MANHOLE
- CATCHBASIN
- ▣ DOUBLE CATCHBASIN
- ◻ COMMUNITY MAILBOX
- ▣ TRANSFORMER VAULT
- HYDRO TAP BOXES
- STREETLIGHT
- ⊕ HYDRANT AND VALVE
- ⊙ VALVE AND CHAMBER
- ⊗ VALVE AND BOX
- CURB STOP
- PROPERTY LINE
- - - WATER SERVICE CONNECTION
- - - SANITARY SERVICE CONNECTION
- OVERLAND FLOW ROUTE
- ↻ EXISTING OVERLAND FLOW

NOTE

1. MEASUREMENTS IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE SHOWN.
2. CONTRACTOR TO VERIFY DEPTH OF EXISTING UTILITIES AND REPORT ANY DISCREPANCY PRIOR TO CONSTRUCTION.
3. REFER TO REM-101 FOR REMOVAL DETAILS.

BENCHMARK

ELEVATIONS SHOWN HEREON ARE GEODETIC AND ARE REFERRED TO THE CITY OF TORONTO BENCHMARK N o. CT1611, HAVING A PUBLISHED ELEVATION OF 95.938 METRES.

STORM AND SANITARY

ECA APPROVAL No. 8015-9LUU3W

WATERMIAN

APPROVED ON JUNE 23, 2014

CONTRACTOR TO BE RESPONSIBLE FOR LOCATION OF ALL EXIST'G U/G & OVERHEAD UTILITIES. VARIOUS UTILITIES CONCERNED TO BE GIVEN REQUIRED ADVANCE NOTICE PRIOR TO ANY DIGGING, FOR STAKE OUT. THE CONSULTANT ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF EXISTING UTILITIES AS INDICATED ON THIS DRAWING.

TOPOGRAPHY BY MMM Geomatics Ontario Ltd. (Sept. 17, 2009)

DIGITAL INFORMATION			
No.	DATE	REVISIONS	INITIALSIGNED
8.	15/JUL/14	ISSUE FOR FINAL APPROVAL	R.S.
7.	16/MAY/14	REVISED AS PER MOE COMMENTS	R.S.
6.	14/MAY/14	UTILITY SIGN OFF	R.S.
5.	07/MAR/14	ISSUE FOR MOE	R.S.
4.	13/FEB/14	ISSUE FOR TENDER	R.S.
3.	04/DEC/13	THRID SUBMISSION	R.S.
2.	19/AUG/13	SECOND SUBMISSION	R.S.
1.	15/FEB/13	FIRST SUBMISSION	R.S.

The Sema Group Inc. (a GHD Company)
11 Alibon Parkway, Suite 310
Markham, ON L3R 9T8
T: 905.752.4300
F: 905.752.4301
www.ghd.com



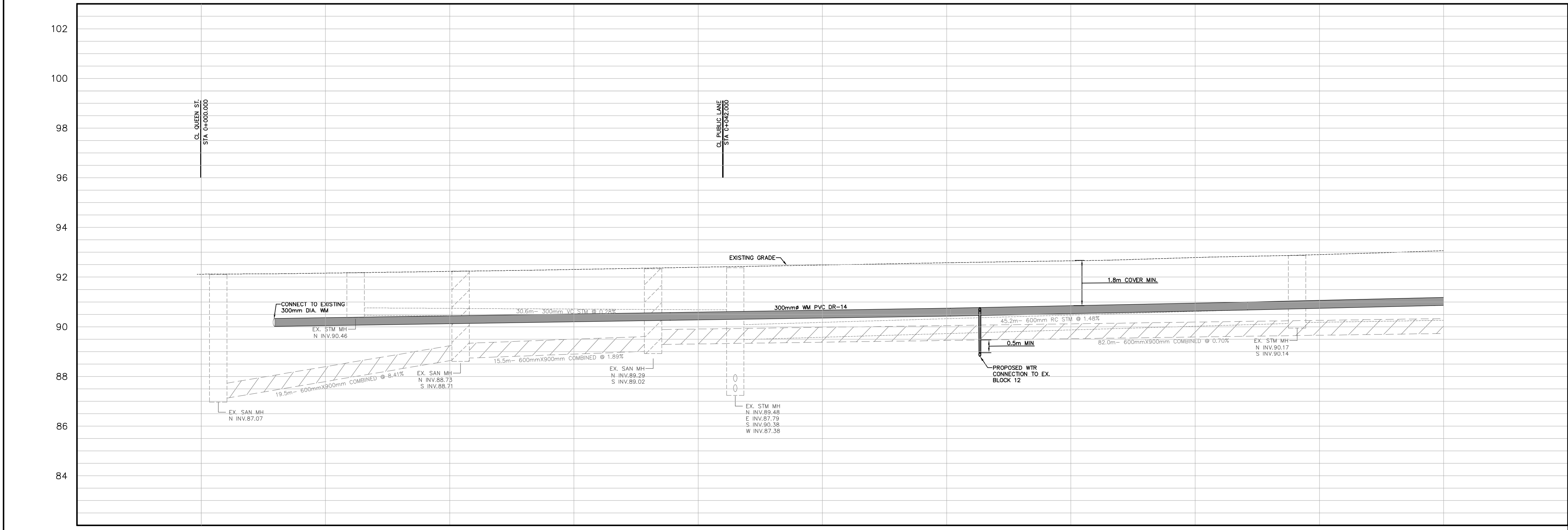

Toronto ENGINEERING AND CONSTRUCTION SERVICES DIVISION

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

MANAGER, ENGINEERING REVIEW _____ DATE: _____

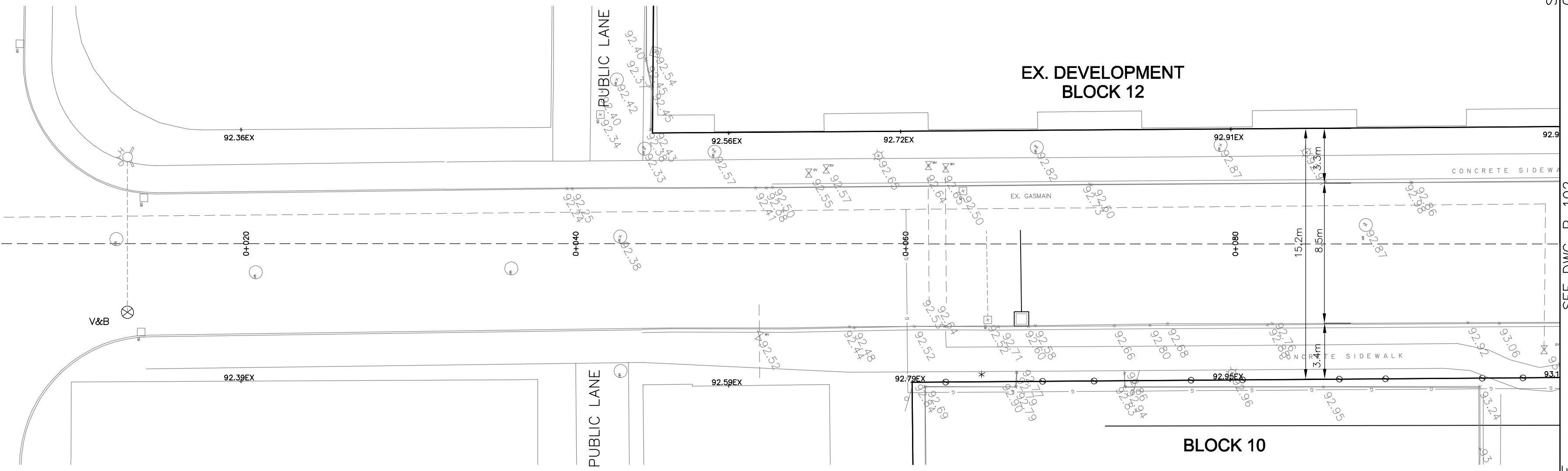
**ALEXANDRA PARK
VANAULEY STREET
FROM STA 0+000.000 TO 0+100.000**

DESIGN	D.C.	DRAWN	D.C.	CHECKED	J.F.	CONTRACT No. 13011
SCALE:	1:200 HORIZONTAL 1:100 VERTICAL		CITY DRAWING NO.		DRAWING NUMBER	
DATE:	DECEMBER 2013		X-XXX-XXX		P-101	



SURFACE ELEVATION	92.12	92.23	92.37	92.58	92.84	93.07
STATION	0+000.000	0+020.000	0+040.000	0+060.000	0+080.000	0+100.000

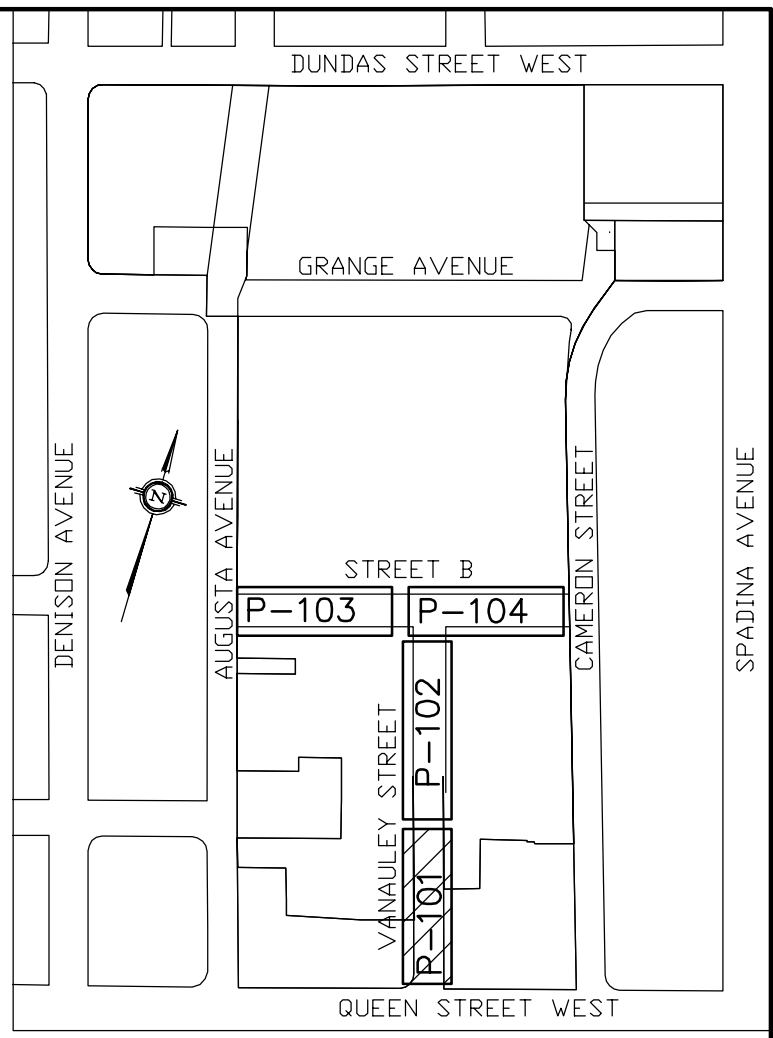
QUEEN STREET



VANAULEY STREET

LEGEND

- SANITARY SEWER MANHOLE
- STORM SEWER MANHOLE
- CATCHBASIN
- DOUBLE CATCHBASIN
- ▣ COMMUNITY MAILBOX
- ▣ TRANSFORMER VAULT
- ▣ HYDRO TAP BOXES
- STREETLIGHT
- ⊕ HYDRANT AND VALVE
- ⊕ VALVE AND CHAMBER
- ⊕ VALVE AND BOX
- ⊕ CURB STOP
- PROPERTY LINE
- WATER SERVICE CONNECTION
- SANITARY SERVICE CONNECTION



KEY PLAN
N.T.S.

NOTE
1. MEASUREMENTS IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE SHOWN.

BENCHMARK
ELEVATIONS SHOWN HEREON ARE GEODETIC AND ARE REFERRED TO THE CITY OF TORONTO BENCHMARK N.O. CT1611, HAVING A PUBLISHED ELEVATION OF 95.938 METRES.

STORM AND SANITARY
ECA APPROVAL No. 8015-9LUU3W

WATERMIAN
APPROVED ON JUNE 23, 2014

CONTRACTOR TO BE RESPONSIBLE FOR LOCATION OF ALL EXIST'G U/G & OVERHEAD UTILITIES. VARIOUS UTILITIES CONCERNED TO BE GIVEN REQUIRED ADVANCE NOTICE PRIOR TO ANY DIGGING, FOR STAKE OUT. THE CONSULTANT ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF EXISTING UTILITIES AS INDICATED ON THIS DRAWING.

TOPOGRAPHY BY MMM Geomatics Ontario Ltd. (Sept. 17, 2009)

DIGITAL INFORMATION			
No.	DATE	REVISIONS	INITIALSIGNED
8.	15/JUL/14	ISSUE FOR FINAL APPROVAL	R.S.
7.	16/MAY/14	REVISED AS PER MOE COMMENTS	R.S.
6.	14/MAY/14	UTILITY SIGN OFF	R.S.
5.	07/MAR/14	ISSUE FOR MOE	R.S.
4.	13/FEB/14	ISSUE FOR TENDER	R.S.
3.	04/DEC/13	THIRD SUBMISSION	R.S.
2.	19/AUG/13	SECOND SUBMISSION	R.S.
1.	15/FEB/13	FIRST SUBMISSION	R.S.

The Sernas Group Inc. (a GHD Company)
11 Alibon Parkway, Suite 310
Markham, ON L3R 9T8
T: 905.752.4300
F: 905.752.4301
www.ghd.com




Toronto ENGINEERING AND CONSTRUCTION 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.

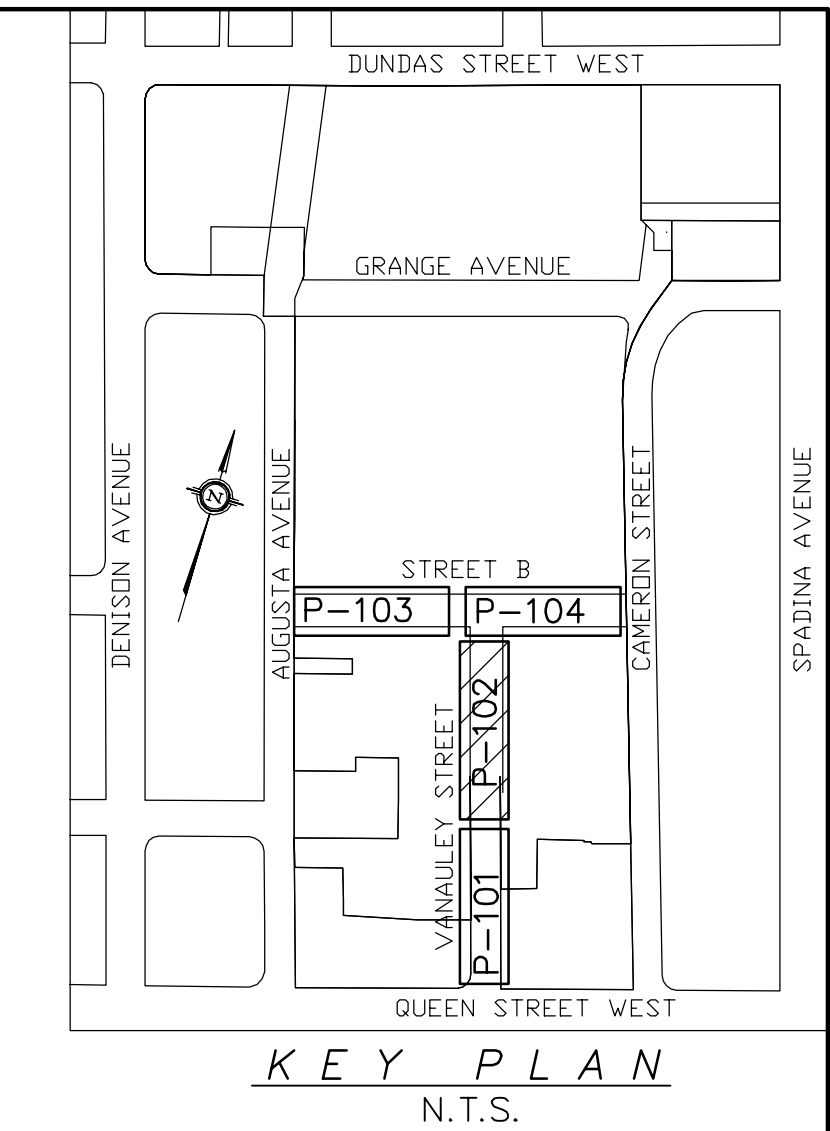
MANAGER, ENGINEERING REVIEW _____ DATE: _____

**ALEXANDRA PARK
VANAULEY STREET - GRADING
FROM STA 0+000.000 TO 0+100.000**

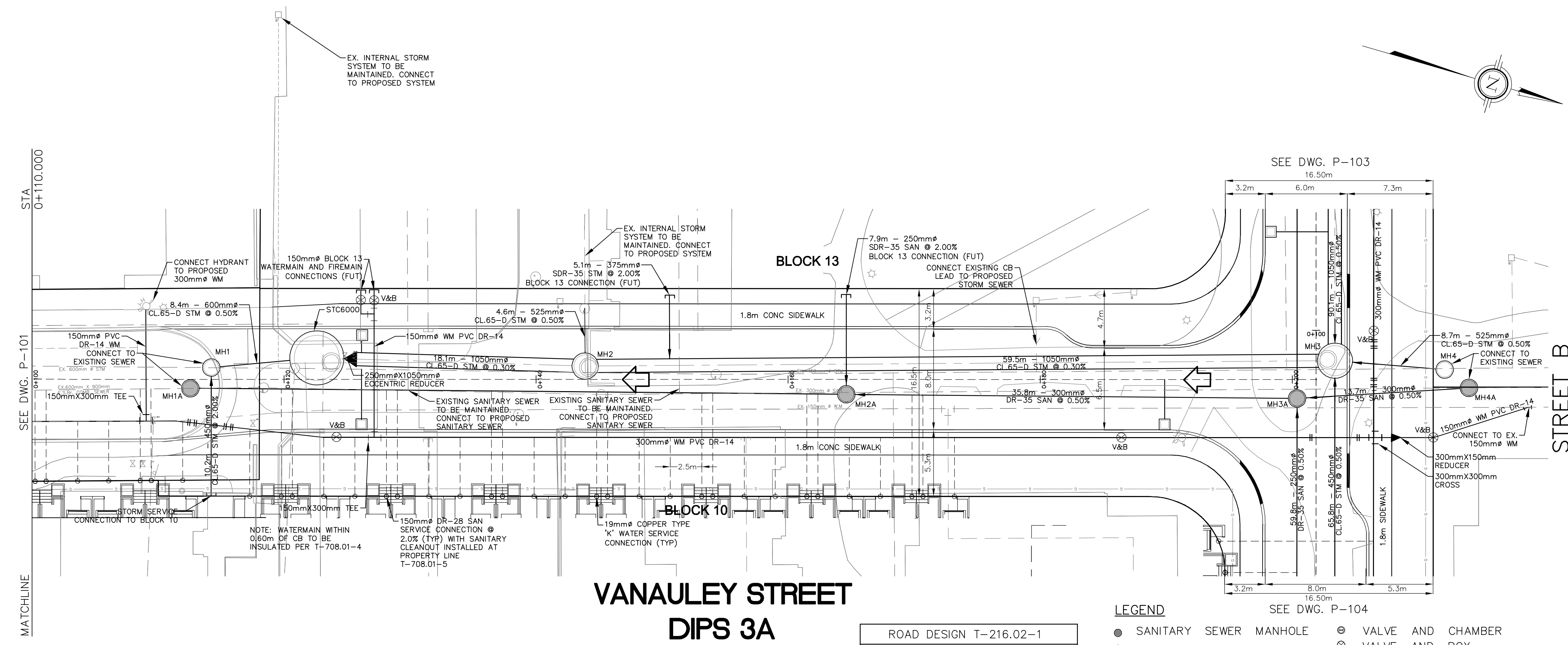
DESIGN	D.C.	DRAWN	D.C.	CHECKED	J.F.	CONTRACT No. 13011
SCALE:	1:200 HORIZONTAL 1:100 VERTICAL		CITY DRAWING NO.		DRAWING NUMBER	
DATE:	DECEMBER 2013		X-XXX-XXX		P-101a	



SURFACE ELEVATION	92.12	92.23	92.37	92.59	92.84	93.07
STATION	0+000.000	0+020.000	0+040.000	0+060.000	0+080.000	0+100.000



KEY PLAN
N.T.S.



VANAULEY STREET
DIPS 3A

ROAD DESIGN T-216.02-1

HL1 ASPHALT	50mm
CONCRETE (32 MPa)	200mm
GRANULAR 'A' BASE	150mm

- LEGEND
- SANITARY SEWER MANHOLE
 - STORM SEWER MANHOLE
 - CATCHBASIN
 - ▣ DOUBLE CATCHBASIN
 - ▤ COMMUNITY MAILBOX
 - TRANSFORMER VAULT
 - ▣ HYDRO TAP BOXES
 - STREETLIGHT
 - ⊕ HYDRANT AND VALVE
 - ⊕ VALVE AND CHAMBER
 - ⊕ VALVE AND BOX
 - ⊕ CURB STOP
 - PROPERTY LINE
 - - - WATER SERVICE CONNECTION
 - - - SANITARY SERVICE CONNECTION
 - ➔ OVERLAND FLOW ROUTE
 - ➔ EXISTING OVERLAND FLOW

- NOTE
- MEASUREMENTS IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE SHOWN.
 - CONTRACTOR TO VERIFY DEPTH OF EXISTING UTILITIES AND REPORT ANY DISCREPANCY PRIOR TO CONSTRUCTION.
 - REFER TO REM-101 FOR REMOVAL DETAILS.

BENCHMARK
ELEVATIONS SHOWN HEREON ARE GEODETIC AND ARE REFERRED TO THE CITY OF TORONTO BENCHMARK No. CT1611, HAVING A PUBLISHED ELEVATION OF 95.938 METRES.

STORM AND SANITARY
ECA APPROVAL No. 8015-9LUU3W

WATERMIAN
APPROVED ON JUNE 23, 2014

CONTRACTOR TO BE RESPONSIBLE FOR LOCATION OF ALL EXIST'G U/G & OVERHEAD UTILITIES. VARIOUS UTILITIES CONCERNED TO BE GIVEN REQUIRED ADVANCE NOTICE PRIOR TO ANY DIGGING, FOR STAKE OUT. THE CONSULTANT ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF EXISTING UTILITIES AS INDICATED ON THIS DRAWING.

TOPOGRAPHY BY MMM Geomatics Ontario Ltd. (Sept. 17, 2009)

DIGITAL INFORMATION

No.	DATE	REVISIONS	INITIALSIGNED
9.	15/JUL/14	ISSUE FOR FINAL APPROVAL	R.S.
8.	10/JUL/14	REVISED AS PER MOE COMMENT	R.S.
7.	16/MAY/14	REVISED AS PER MOE COMMENTS	R.S.
6.	14/MAY/14	UTILITY SIGN OFF	R.S.
5.	07/MAR/14	ISSUE FOR MOE	R.S.
4.	13/FEB/14	ISSUE FOR TENDER	R.S.
3.	04/DEC/13	THIRD SUBMISSION	R.S.
2.	19/AUG/13	SECOND SUBMISSION	R.S.
1.	15/FEB/13	FIRST SUBMISSION	R.S.

The Sernas Group Inc. (a GHD Company)
11 Alibon Parkway, Suite 310
Markham, ON L3R 9T8

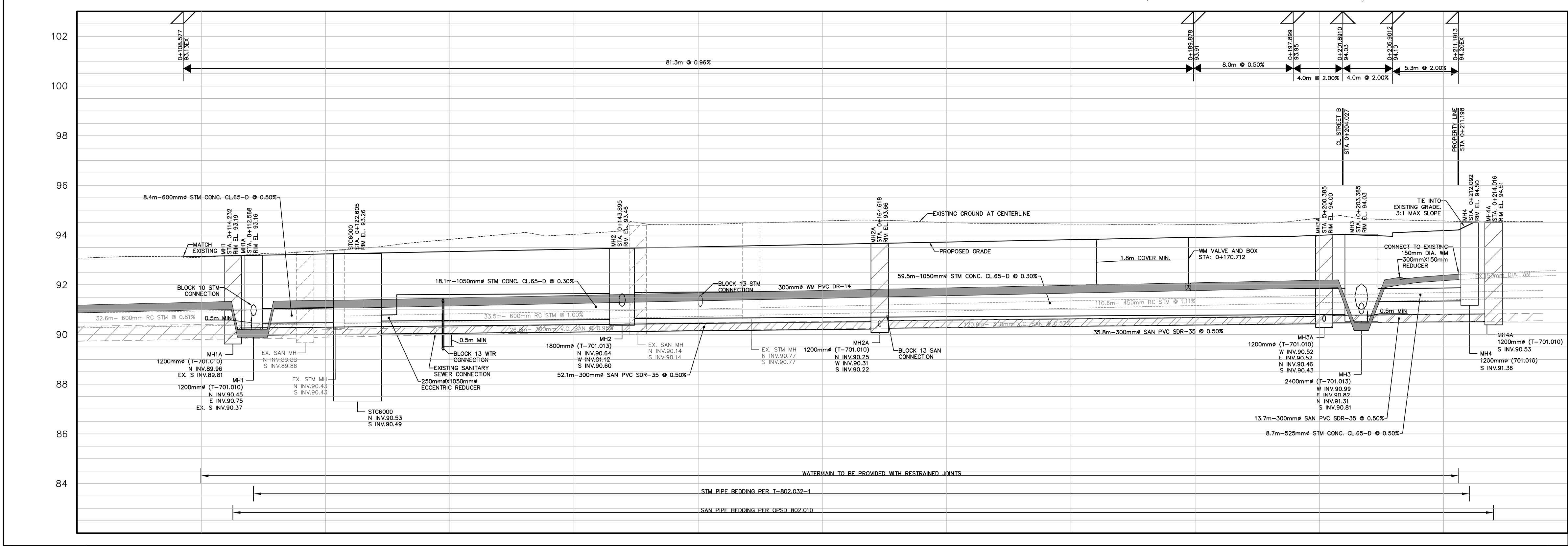
1-905-752-4300
F-905-752-4301
www.ghd.com

Toronto ENGINEERING AND CONSTRUCTION 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.

MANAGER, ENGINEERING REVIEW _____ DATE: _____

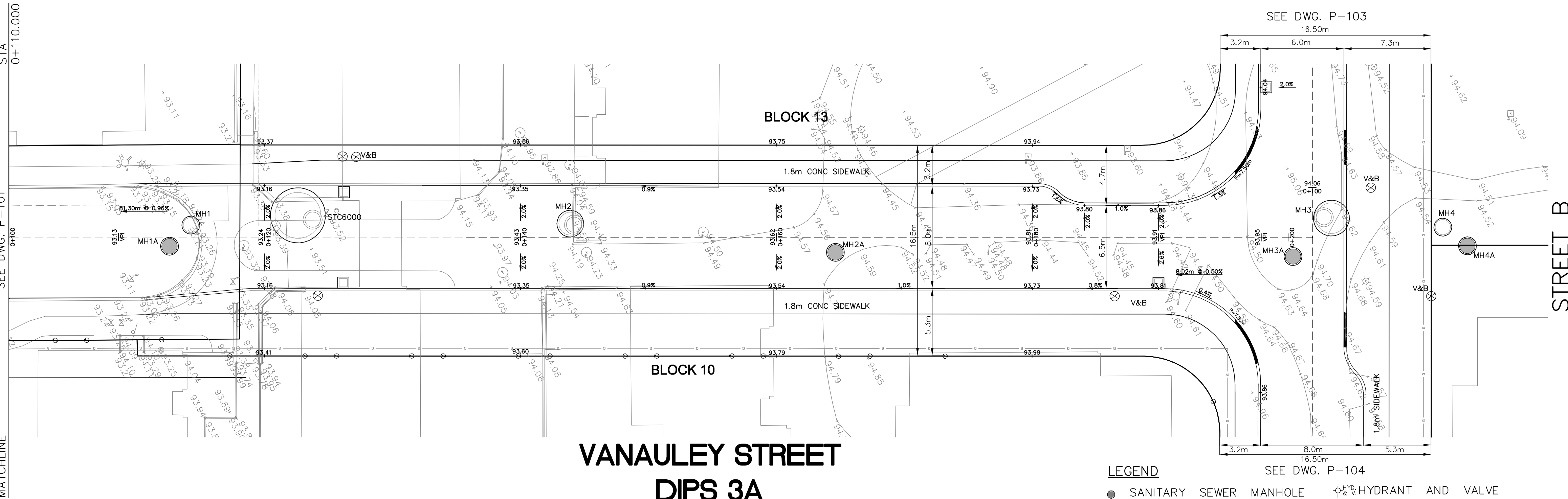
ALEXANDRA PARK
VANAULEY STREET
FROM STA 0+100.000 TO 0+220.000



SURFACE ELEVATION	STATION
95.236	0+120.000
94.430	0+140.000
94.572	0+160.000
94.443	0+180.000
94.590	0+200.000

DESIGN	D.C.	DRAWN	D.C.	CHECKED	J.F.	CONTRACT No. 13011
SCALE:	1:200 HORIZONTAL		CITY DRAWING NO.		DRAWING NUMBER	
	1:100 VERTICAL		X-XXX-XXX		P-102	
DATE:	DECEMBER 2013					

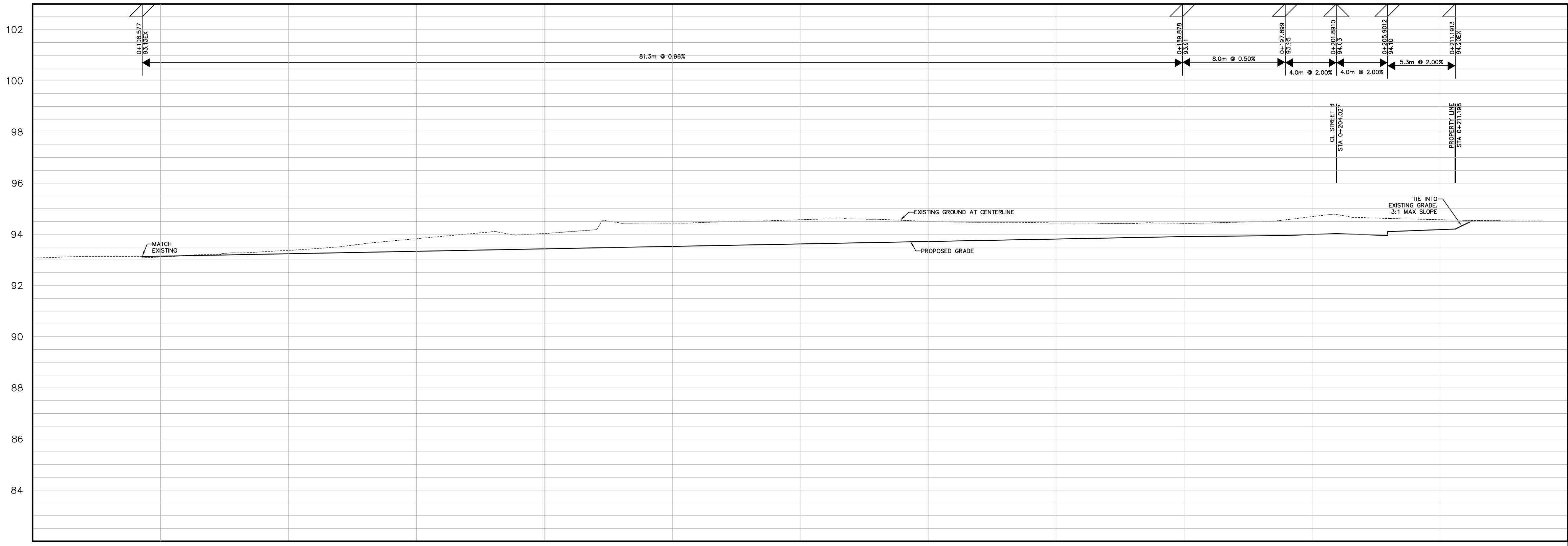
STA 0+110.000
SEE DWG. P-101
MATCHLINE



**VANAULEY STREET
DIPS 3A**

ROAD DESIGN T-216.02-1	
HL1 ASPHALT	50mm
CONCRETE (32 MPa)	200mm
GRANULAR 'A' BASE	150mm

- LEGEND**
- SANITARY SEWER MANHOLE
 - STORM SEWER MANHOLE
 - CATCHBASIN
 - ▣ DOUBLE CATCHBASIN
 - ▤ COMMUNITY MAILBOX
 - ▥ TRANSFORMER VAULT
 - ▧ HYDRO TAP BOXES
 - STREETLIGHT
 - ⊕ HYDRANT AND VALVE
 - ⊗ VALVE AND CHAMBER
 - ⊙ VALVE AND BOX
 - ⊘ CURB STOP
 - PROPERTY LINE
 - - - WATER SERVICE CONNECTION
 - SANITARY SERVICE CONNECTION



SURFACE ELEVATION	94.77 93.430	94.03 93.430	94.57 93.622	94.44 93.613	94.69 93.590
STATION	0+120.000	0+140.000	0+160.000	0+180.000	0+200.000

NOTE
1. MEASUREMENTS IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE SHOWN.

BENCHMARK
ELEVATIONS SHOWN HEREON ARE GEODETIC AND ARE REFERRED TO THE CITY OF TORONTO BENCHMARK N o. CT1611, HAVING A PUBLISHED ELEVATION OF 95.938 METRES.

STORM AND SANITARY
ECA APPROVAL No. 8015-9LUU3W

WATERMIAN
APPROVED ON JUNE 23, 2014

CONTRACTOR TO BE RESPONSIBLE FOR LOCATION OF ALL EXIST'G U/G & OVERHEAD UTILITIES. VARIOUS UTILITIES CONCERNED TO BE GIVEN REQUIRED ADVANCE NOTICE PRIOR TO ANY DIGGING, FOR STAKE OUT. THE CONSULTANT ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF EXISTING UTILITIES AS INDICATED ON THIS DRAWING.

TOPOGRAPHY BY MMM Geomatics Ontario Ltd. (Sept. 17, 2009)

DIGITAL INFORMATION			
No.	DATE	REVISIONS	INITIALSIGNED
8.	15/JUL/14	ISSUE FOR FINAL APPROVAL	R.S.
7.	16/MAY/14	REVISED AS PER MOE COMMENTS	R.S.
6.	14/MAY/14	UTILITY SIGN OFF	R.S.
5.	07/MAR/14	ISSUE FOR MOE	R.S.
4.	13/FEB/14	ISSUE FOR TENDER	R.S.
3.	04/DEC/13	THIRD SUBMISSION	R.S.
2.	19/AUG/13	SECOND SUBMISSION	R.S.
1.	15/FEB/13	FIRST SUBMISSION	R.S.

The Sernas Group Inc. (a GHD Company)
11 Alibon Parkway, Suite 310
Markham, ON L3R 9T8
T: 905.752.4300
F: 905.752.4301
www.ghd.com

PROFESSIONAL ENGINEER
M. R. SERRAO
100165679
PROVINCE OF ONTARIO

Toronto ENGINEERING AND CONSTRUCTION SERVICES DIVISION

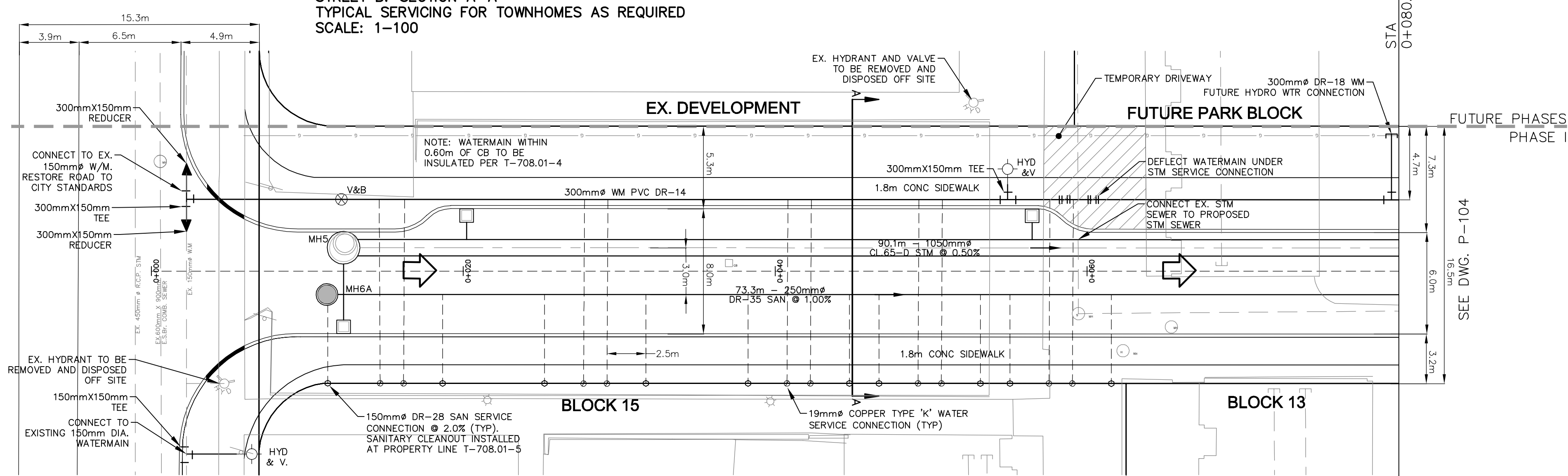
ACCEPTED TO BE IN ACCORDANCE WITH THE CITY OF TORONTO STANDARDS. THIS ACCEPTANCE IS NOT TO BE CONSTRUED AS VERIFICATION OF ENGINEERING CONTENT.

MANAGER, ENGINEERING REVIEW DATE: _____

**ALEXANDRA PARK
VANAULEY STREET - GRADING
FROM STA 0+100.000 TO 0+220.000**

DESIGN	D.C.	DRAWN	D.C.	CHECKED	J.F.	CONTRACT No. 13011
SCALE:	1:200 HORIZONTAL 1:100 VERTICAL		CITY DRAWING NO.		DRAWING NUMBER	
DATE:	DECEMBER 2013		X-XXX-XXX		P-102a	

AUGUSTA AVENUE

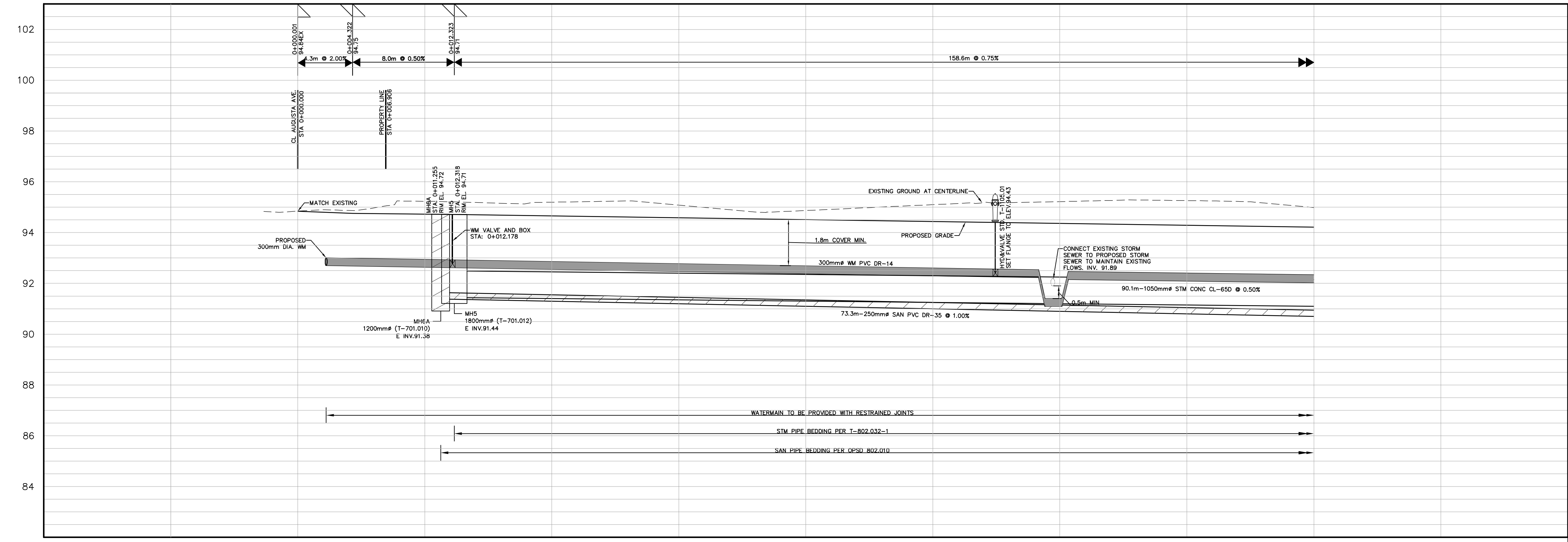


STREET B: SECTION A-A
TYPICAL SERVICING FOR TOWNHOMES AS REQUIRED
SCALE: 1=100

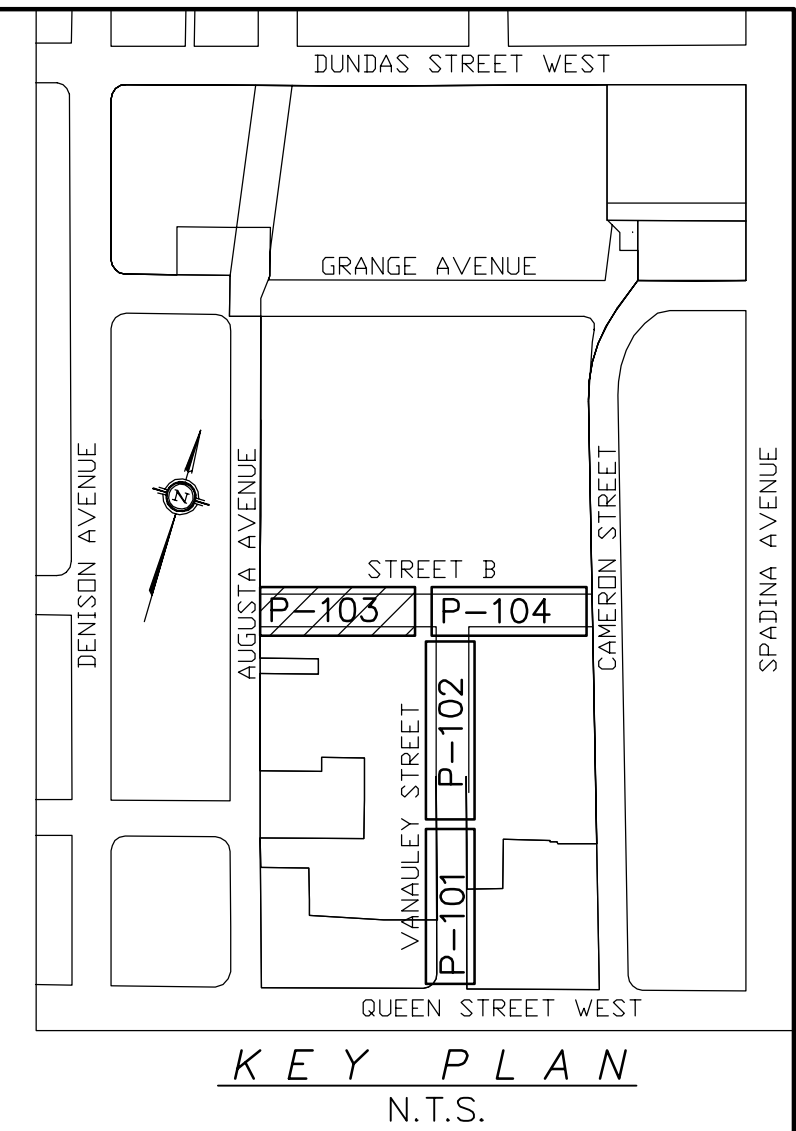
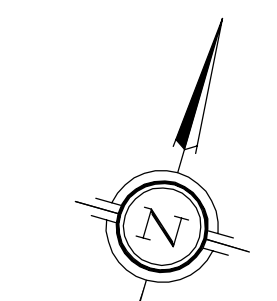
STREET B
DIPS 3A

ROAD DESIGN T-216.02-1	
HL1 ASPHALT	50mm
CONCRETE (32 MPa)	200mm
GRANULAR 'A' BASE	150mm

- LEGEND**
- SANITARY SEWER MANHOLE
 - STORM SEWER MANHOLE
 - CATCHBASIN
 - DOUBLE CATCHBASIN
 - ▤ COMMUNITY MAILBOX
 - ▣ TRANSFORMER VAULT
 - ▣ HYDRO TAP BOXES
 - STREETLIGHT
 - ⊕ HYDRANT AND VALVE
 - ⊕ VALVE AND CHAMBER
 - ⊕ VALVE AND BOX
 - ⊕ CURB STOP
 - PROPERTY LINE
 - - - WATER SERVICE CONNECTION
 - - - SANITARY SERVICE CONNECTION
 - ➡ OVERLAND FLOW ROUTE
 - ➡ EXISTING OVERLAND FLOW



SURFACE ELEVATION	STATION
94.84 94.839	0+000.000
95.19 94.655	0+020.000
94.86 94.506	0+040.000
95.27 94.356	0+060.000
94.89 94.207	0+080.000



- NOTE**
- MEASUREMENTS IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE SHOWN.
 - CONTRACTOR TO VERIFY DEPTH OF EXISTING UTILITIES AND REPORT ANY DISCREPANCY PRIOR TO CONSTRUCTION.
 - REFER TO REM-101 FOR REMOVAL DETAILS.

BENCHMARK
ELEVATIONS SHOWN HEREON ARE GEODETIC AND ARE REFERRED TO THE CITY OF TORONTO BENCHMARK No. CT1611, HAVING A PUBLISHED ELEVATION OF 95.938 METRES.

STORM AND SANITARY
ECA APPROVAL No. 8015-9LUU3W

WATERMIAN
APPROVED ON JUNE 23, 2014

CONTRACTOR TO BE RESPONSIBLE FOR LOCATION OF ALL EXIST'G U/G & OVERHEAD UTILITIES. VARIOUS UTILITIES CONCERNED TO BE GIVEN REQUIRED ADVANCE NOTICE PRIOR TO ANY DIGGING, FOR STAKE OUT. THE CONSULTANT ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF EXISTING UTILITIES AS INDICATED ON THIS DRAWING.

TOPOGRAPHY BY MMM Geomatics Ontario Ltd. (Sept. 17, 2009)

DIGITAL INFORMATION			
No.	DATE	REVISIONS	INITIALSIGNED
8.	15/JUL/14	ISSUE FOR FINAL APPROVAL	R.S.
7.	16/MAY/14	REVISED AS PER MOE COMMENTS	R.S.
6.	14/MAY/14	UTILITY SIGN OFF	R.S.
5.	07/MAR/14	ISSUE FOR MOE	R.S.
4.	13/FEB/14	ISSUE FOR TENDER	R.S.
3.	04/DEC/13	THRID SUBMISSION	R.S.
2.	19/AUG/13	SECOND SUBMISSION	R.S.
1.	15/FEB/13	FIRST SUBMISSION	R.S.

The Sernas Group Inc. (a GHD Company)
11 Alibabto Parkway, Suite 310
Markham, ON L3R 9T8
T: 905.752.4300
F: 905.752.4301
www.ghd.com

GHD

LICENSED PROFESSIONAL ENGINEER
M. R. SERRAO
100165679
PROVINCE OF ONTARIO

Toronto ENGINEERING AND CONSTRUCTION SERVICES DIVISION

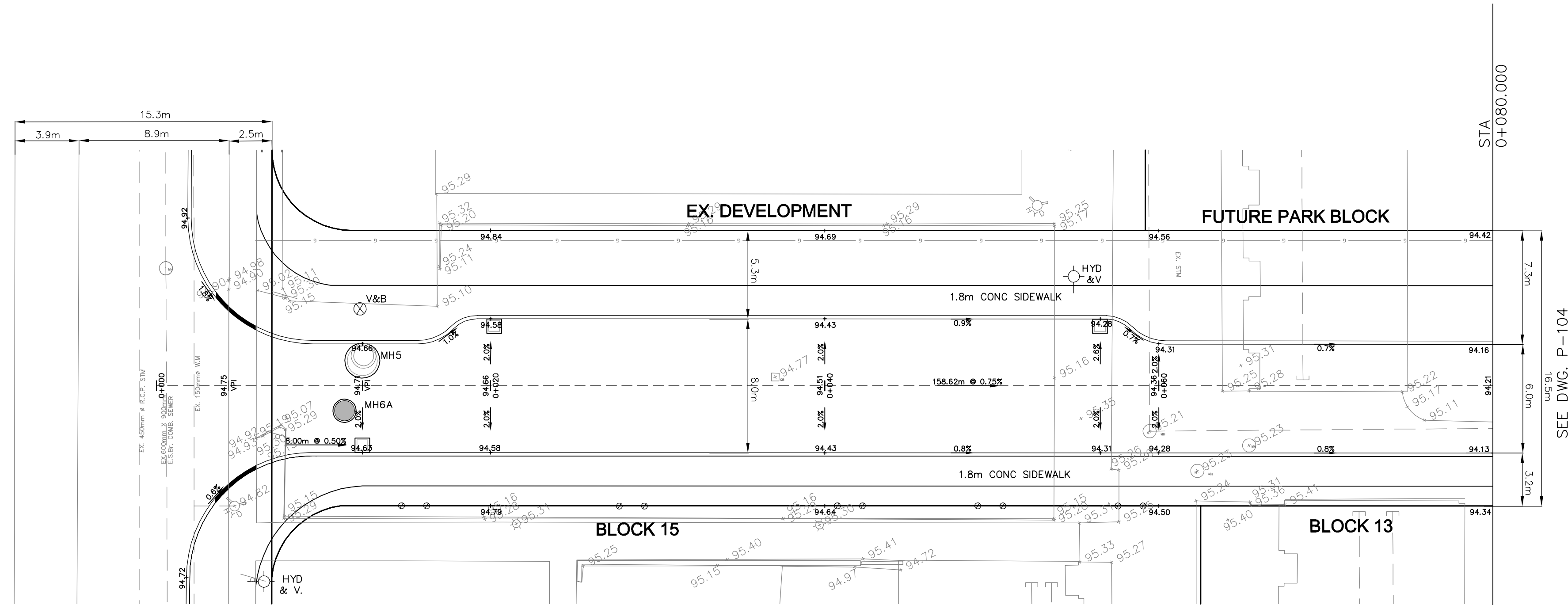
ACCEPTED TO BE IN ACCORDANCE WITH THE CITY OF TORONTO STANDARDS. THIS ACCEPTANCE IS NOT TO BE CONSTRUED AS VERIFICATION OF ENGINEERING CONTENT.

MANAGER, ENGINEERING REVIEW _____ DATE: _____

**ALEXANDRA PARK
STREET B
FROM STA 0+000.000 TO 0+080.000**

DESIGN	D.C.	DRAWN	D.C.	CHECKED	J.F.	CONTRACT No. 13011
SCALE:	1:200 HORIZONTAL 1:100 VERTICAL		CITY DRAWING NO.		DRAWING NUMBER	
DATE:	DECEMBER 2013		X-XXX-XXX		P-103	

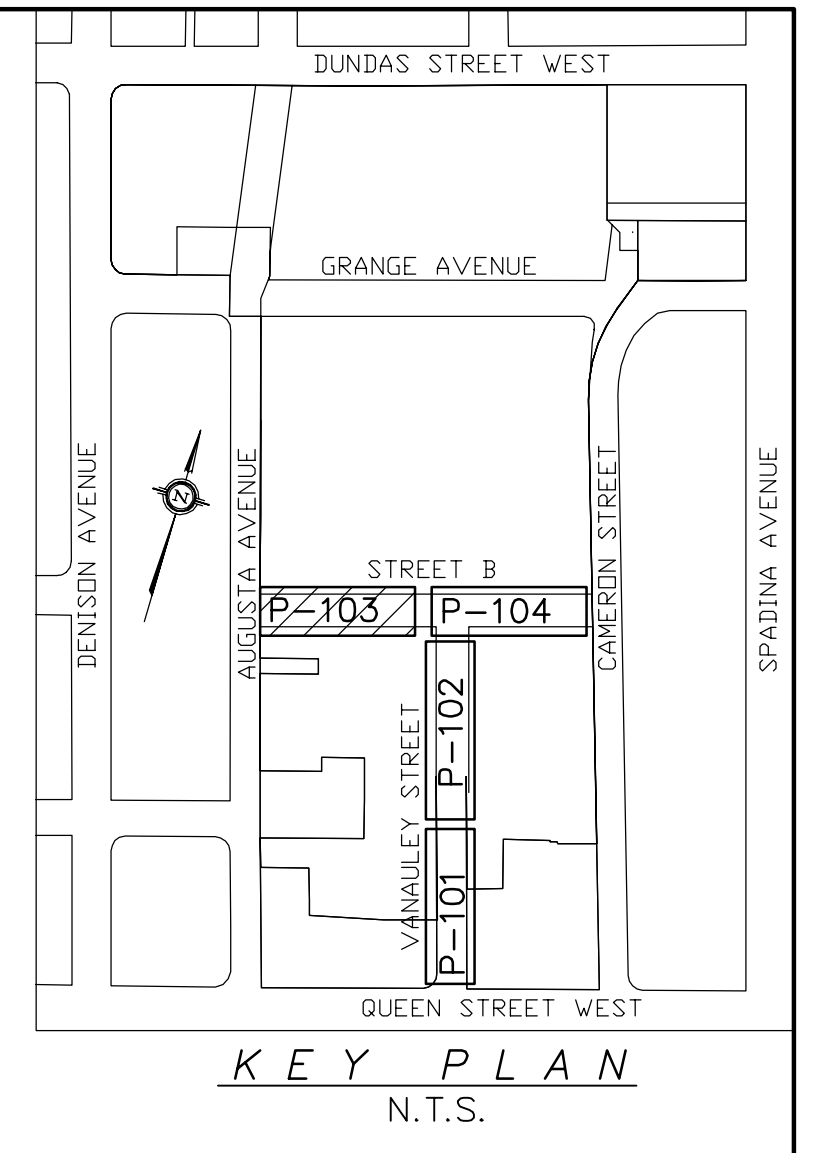
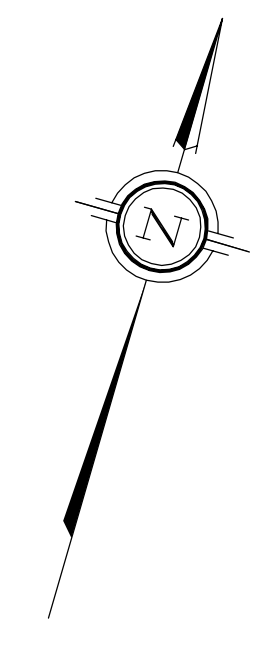
AUGUSTA AVENUE



**STREET B
DIPS 3A**

ROAD DESIGN T-216.02-1	
HL1 ASPHALT	50mm
CONCRETE (32 MPa)	200mm
GRANULAR 'A' BASE	150mm

- LEGEND**
- SANITARY SEWER MANHOLE
 - STORM SEWER MANHOLE
 - CATCHBASIN
 - ▣ DOUBLE CATCHBASIN
 - ◻ COMMUNITY MAILBOX
 - ▣ TRANSFORMER VAULT
 - ▣ HYDRO TAP BOXES
 - STREETLIGHT
 - ⊕ HYDRANT AND VALVE
 - ⊕ VALVE AND CHAMBER
 - ⊕ VALVE AND BOX
 - ⊕ CURB STOP
 - PROPERTY LINE
 - - - WATER SERVICE CONNECTION
 - SANITARY SERVICE CONNECTION



NOTE
1. MEASUREMENTS IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE SHOWN.

BENCHMARK
ELEVATIONS SHOWN HEREON ARE GEODETIC AND ARE REFERRED TO THE CITY OF TORONTO BENCHMARK No. CT1611, HAVING A PUBLISHED ELEVATION OF 95.938 METRES.

STORM AND SANITARY
ECA APPROVAL No. 8015-9LUU3W

WATERMIAN
APPROVED ON JUNE 23, 2014

CONTRACTOR TO BE RESPONSIBLE FOR LOCATION OF ALL EXIST'G U/G & OVERHEAD UTILITIES. VARIOUS UTILITIES CONCERNED TO BE GIVEN REQUIRED ADVANCE NOTICE PRIOR TO ANY DIGGING, FOR STAKE OUT. THE CONSULTANT ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF EXISTING UTILITIES AS INDICATED ON THIS DRAWING.

TOPOGRAPHY BY MMM Geomatics Ontario Ltd. (Sept. 17, 2009)

DIGITAL INFORMATION			
No.	DATE	REVISIONS	INITIALSIGNED
8.	15/JUL/14	ISSUE FOR FINAL APPROVAL	R.S.
7.	16/MAY/14	REVISED AS PER MOE COMMENTS	R.S.
6.	14/MAY/14	UTILITY SIGN OFF	R.S.
5.	07/MAR/14	ISSUE FOR MOE	R.S.
4.	13/FEB/14	ISSUE FOR TENDER	R.S.
3.	04/DEC/13	THRID SUBMISSION	R.S.
2.	19/AUG/13	SECOND SUBMISSION	R.S.
1.	15/FEB/13	FIRST SUBMISSION	R.S.

The Semas Group Inc. (a GHD Company)
11 Alibabto Parkway, Suite 310
Markham, ON L3R 9T8
T: 905.752.4300
F: 905.752.4301
www.ghd.com

PROFESSIONAL ENGINEER
M. R. SERRAO
100165679
PROVINCE OF ONTARIO

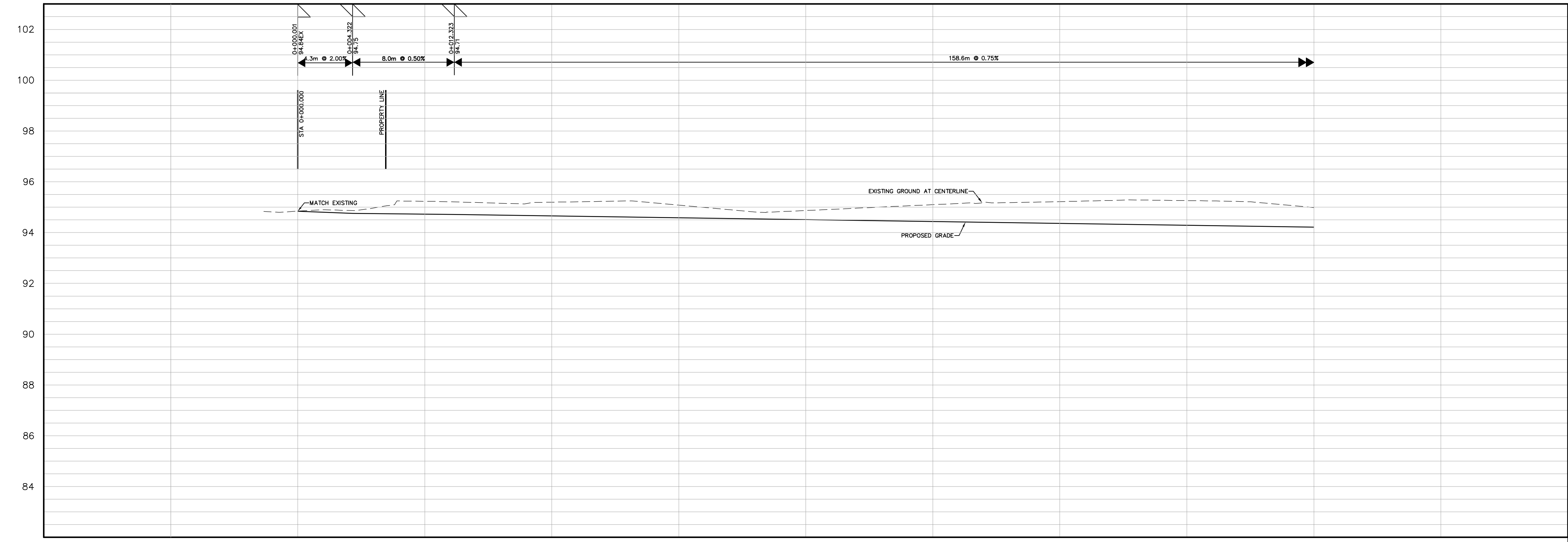
Toronto ENGINEERING AND CONSTRUCTION SERVICES DIVISION

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

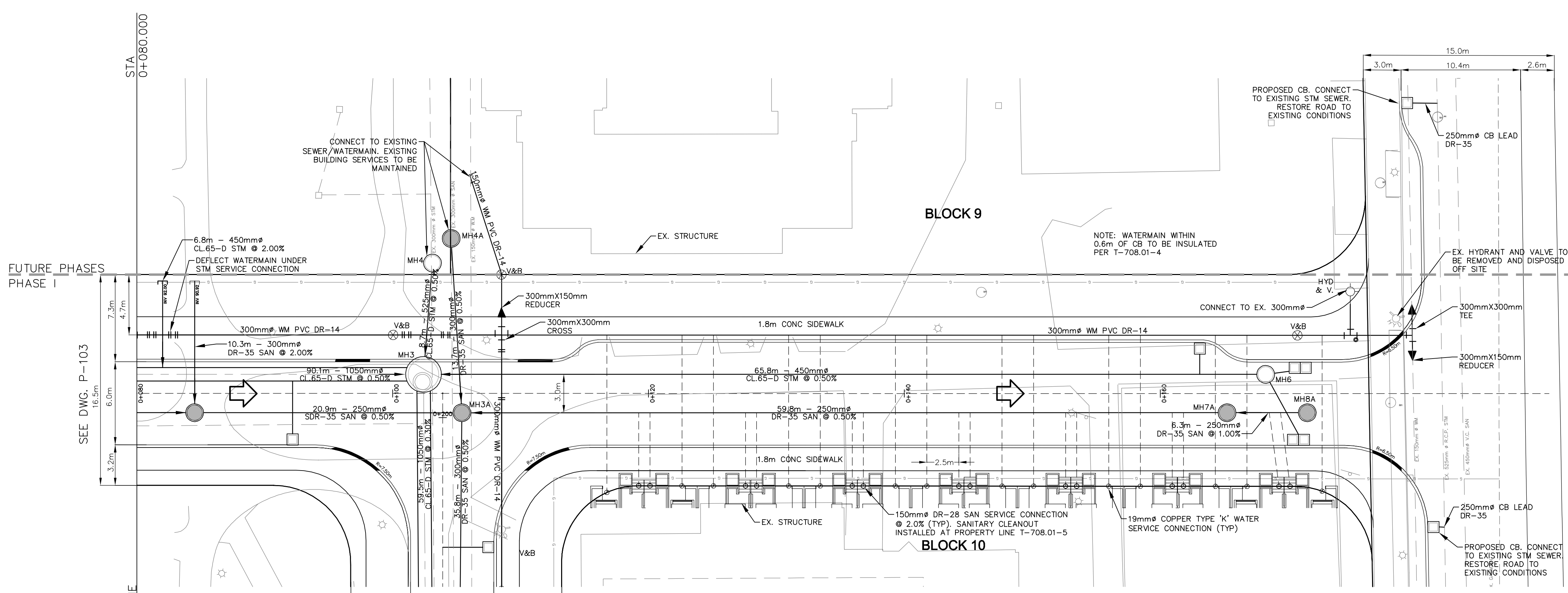
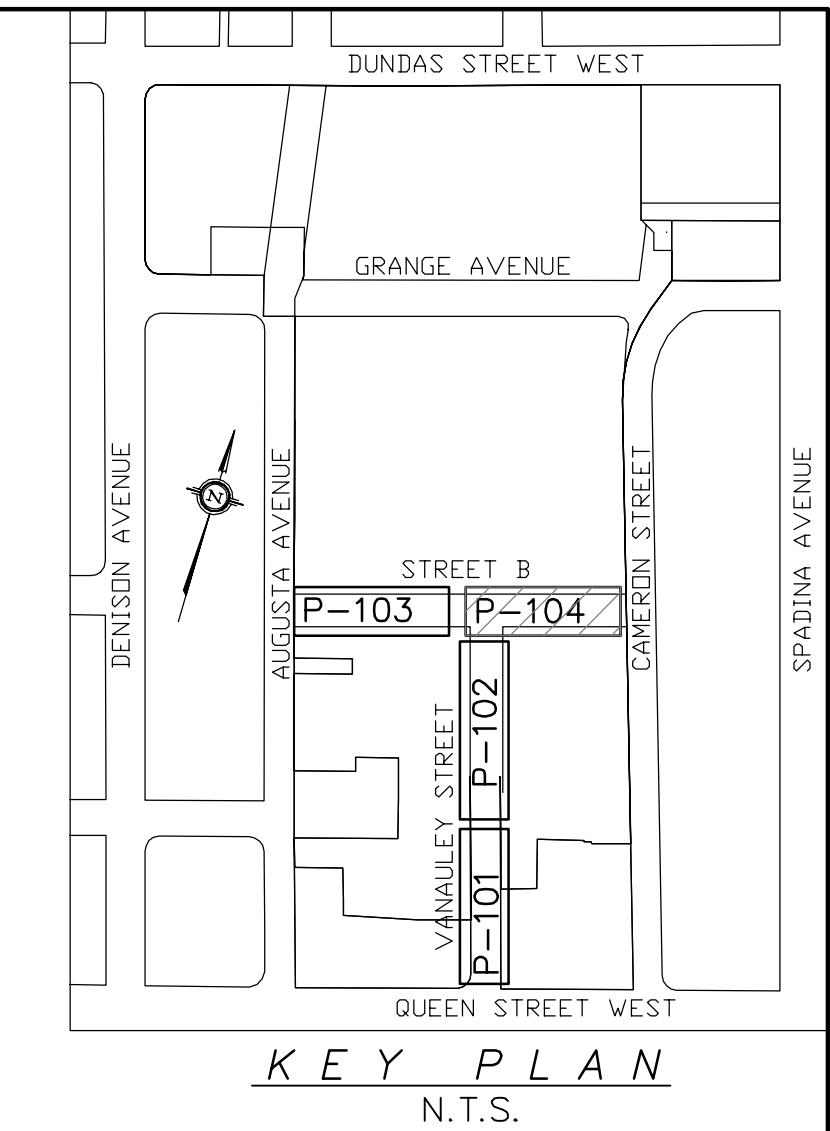
MANAGER, ENGINEERING REVIEW _____ DATE: _____

**ALEXANDRA PARK
STREET B - GRADING
FROM STA 0+000.000 TO 0+080.000**

DESIGN	D.C.	DRAWN	D.C.	CHECKED	J.F.	CONTRACT No. 13011
SCALE:	1:200 HORIZONTAL 1:100 VERTICAL		CITY DRAWING NO.		DRAWING NUMBER	
DATE:	DECEMBER 2013		X-XXX-XXX		P-103a	



SURFACE ELEVATION	94.84 94.839	95.12 94.655	94.86 94.506	94.27 94.356	94.27 94.207
STATION	0+000.000	0+020.000	0+040.000	0+060.000	0+080.000



STREET B DIPS 3A

ROAD DESIGN T-216.02-1	
HL1 ASPHALT	50mm
CONCRETE (32 MPa)	200mm
GRANULAR 'A' BASE	150mm

- LEGEND**
- SANITARY SEWER MANHOLE
 - STORM SEWER MANHOLE
 - CATCHBASIN
 - ▣ DOUBLE CATCHBASIN
 - ◻ COMMUNITY MAILBOX
 - ▣ TRANSFORMER VAULT
 - HYDRO TAP BOXES
 - STREETLIGHT
 - ⊕ HYDRANT AND VALVE
 - ⊕ VALVE AND CHAMBER
 - ⊕ VALVE AND BOX
 - ⊕ CURB STOP
 - PROPERTY LINE
 - - - WATER SERVICE CONNECTION
 - - - SANITARY SERVICE CONNECTION
 - ➡ OVERLAND FLOW ROUTE
 - ➡ EXISTING OVERLAND FLOW

- NOTE**
- MEASUREMENTS IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE SHOWN.
 - CONTRACTOR TO VERIFY DEPTH OF EXISTING UTILITIES AND REPORT ANY DISCREPANCY PRIOR TO CONSTRUCTION.
 - REFER TO REM-101 FOR REMOVAL DETAILS.

BENCHMARK
ELEVATIONS SHOWN HEREON ARE GEODETIC AND ARE REFERRED TO THE CITY OF TORONTO BENCHMARK N o. CT1611, HAVING A PUBLISHED ELEVATION OF 95.938 METRES.

STORM AND SANITARY
ECA APPROVAL No. 8015-9LUU3W

WATERMIAN
APPROVED ON JUNE 23, 2014

CONTRACTOR TO BE RESPONSIBLE FOR LOCATION OF ALL EXIST'G U/G & OVERHEAD UTILITIES. VARIOUS UTILITIES CONCERNED TO BE GIVEN REQUIRED ADVANCE NOTICE PRIOR TO ANY DIGGING, FOR STAKE OUT. THE CONSULTANT ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF EXISTING UTILITIES AS INDICATED ON THIS DRAWING.

TOPOGRAPHY BY MMM Geomatics Ontario Ltd. (Sept. 17, 2009)

DIGITAL INFORMATION			
No.	DATE	REVISIONS	INITIALSIGNED
8.	15/JUL/14	ISSUE FOR FINAL APPROVAL	R.S.
7.	16/MAY/14	REVISED AS PER MOE COMMENTS	R.S.
6.	14/MAY/14	UTILITY SIGN OFF	R.S.
5.	07/MAR/14	ISSUE FOR MOE	R.S.
4.	13/FEB/14	ISSUE FOR TENDER	R.S.
3.	04/DEC/13	THIRD SUBMISSION	R.S.
2.	19/AUG/13	SECOND SUBMISSION	R.S.
1.	15/FEB/13	FIRST SUBMISSION	R.S.

The Sernas Group Inc. (a GHD Company)
11 Alibab Parkway, Suite 310
Markham, ON L3R 9T8

T: 905.752.4300
F: 905.752.4301
www.ghd.com

M. R. SERRAO
LICENSED PROFESSIONAL ENGINEER
PROVINCE OF ONTARIO

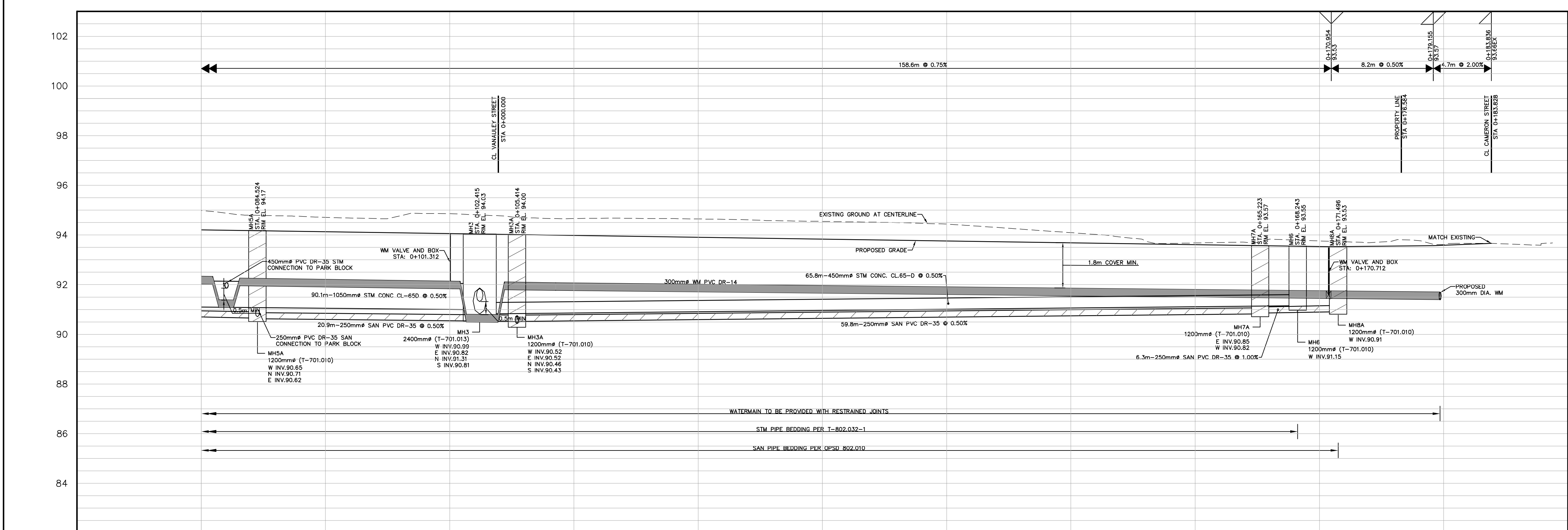
Toronto ENGINEERING AND CONSTRUCTION SERVICES DIVISION

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

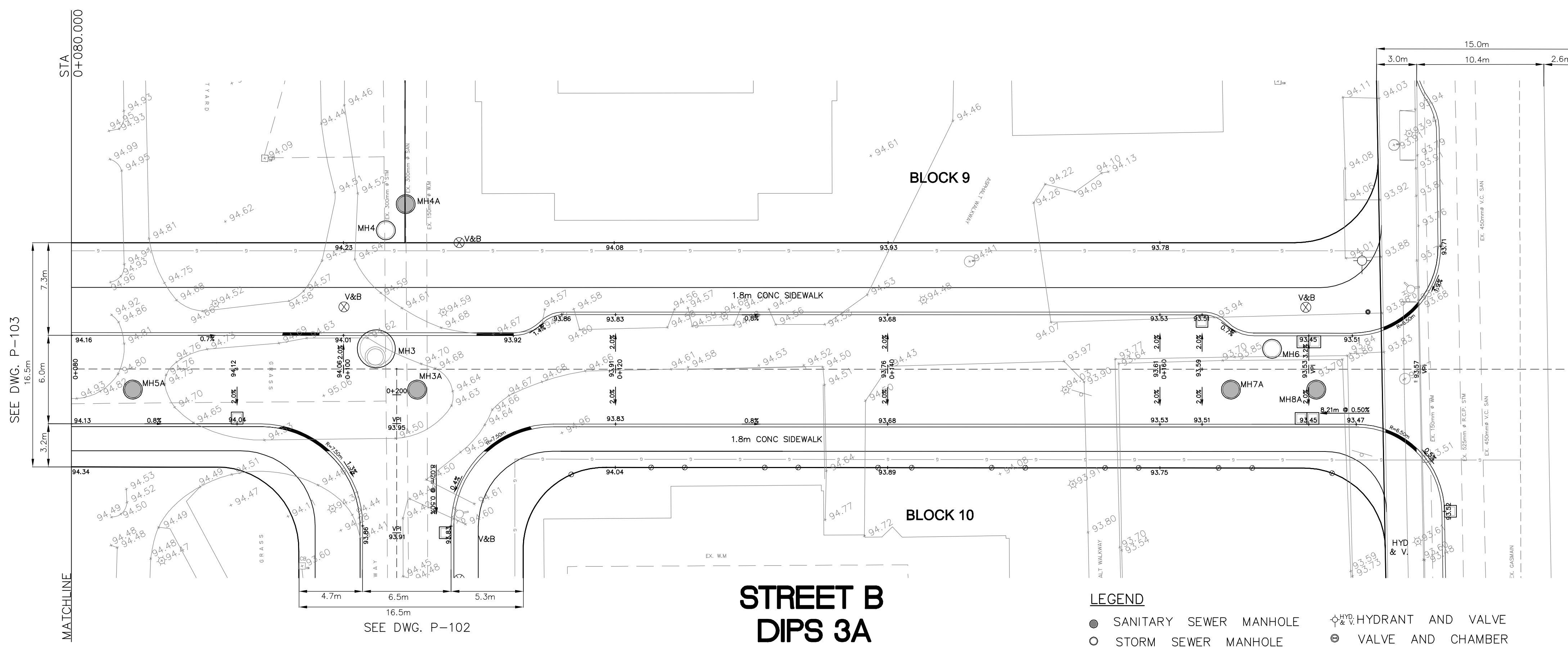
MANAGER, ENGINEERING REVIEW _____ DATE: _____

ALEXANDRA PARK STREET B FROM STA 0+080.000 TO 0+183.870

DESIGN	D.C.	DRAWN	D.C.	CHECKED	J.F.	CONTRACT No. 13011
SCALE:	1:200 HORIZONTAL 1:100 VERTICAL		CITY DRAWING NO.		DRAWING NUMBER	
DATE:	DECEMBER 2013		X-XXX-XXX		P-104	



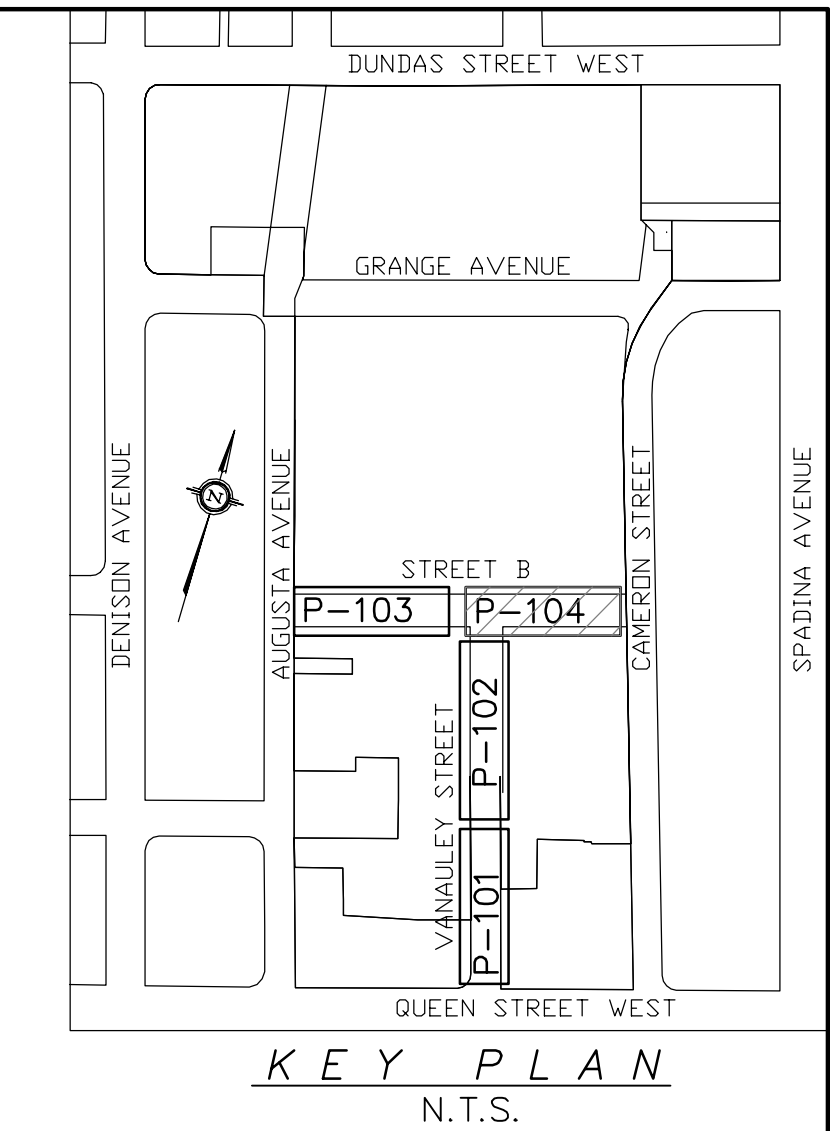
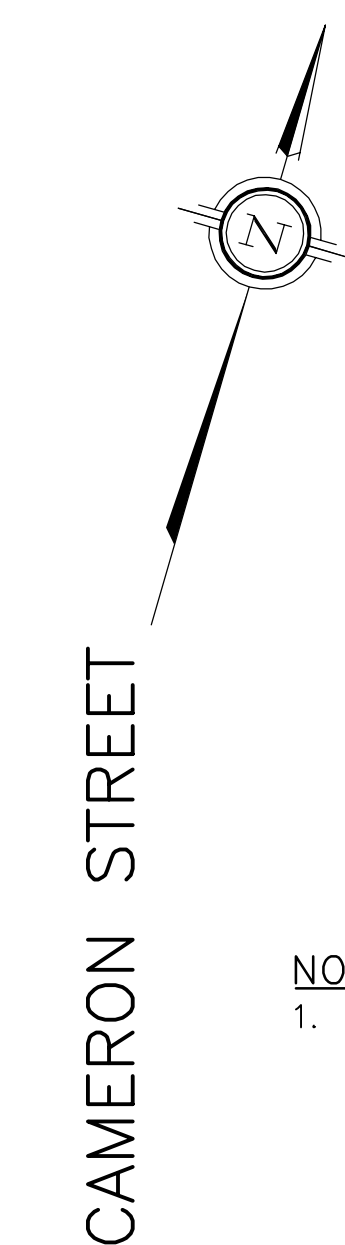
SURFACE ELEVATION	94.98 94.207	94.86 94.057	94.67 93.586	94.44 93.758	93.68 93.609	93.67 93.585
STATION	0+080.000	0+100.000	0+120.000	0+140.000	0+160.000	0+180.000



STREET B DIPS 3A

ROAD DESIGN T-216.02-1		
HL1 ASPHALT		50mm
CONCRETE (32 MPa)		200mm
GRANULAR 'A' BASE		150mm

- LEGEND**
- SANITARY SEWER MANHOLE
 - STORM SEWER MANHOLE
 - CATCHBASIN
 - ▣ DOUBLE CATCHBASIN
 - ☐ COMMUNITY MAILBOX
 - ▣ TRANSFORMER VAULT
 - HYDRO TAP BOXES
 - STREETLIGHT
 - ⊕ HYDRANT AND VALVE
 - ⊗ VALVE AND CHAMBER
 - ⊙ VALVE AND BOX
 - ⊗ CURB STOP
 - PROPERTY LINE
 - - - WATER SERVICE CONNECTION
 - SANITARY SERVICE CONNECTION



NOTE
1. MEASUREMENTS IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE SHOWN.

BENCHMARK
ELEVATIONS SHOWN HEREON ARE GEODETIC AND ARE REFERRED TO THE CITY OF TORONTO BENCHMARK N o. CT1611, HAVING A PUBLISHED ELEVATION OF 95.938 METRES.

STORM AND SANITARY
ECA APPROVAL No. 8015-9LUU3W

WATERMIAN
APPROVED ON JUNE 23, 2014

CONTRACTOR TO BE RESPONSIBLE FOR LOCATION OF ALL EXIST'G U/G & OVERHEAD UTILITIES. VARIOUS UTILITIES CONCERNED TO BE GIVEN REQUIRED ADVANCE NOTICE PRIOR TO ANY DIGGING, FOR STAKE OUT. THE CONSULTANT ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF EXISTING UTILITIES AS INDICATED ON THIS DRAWING.

TOPOGRAPHY BY MMM Geomatics Ontario Ltd. (Sept. 17, 2009)

DIGITAL INFORMATION			
No.	DATE	REVISIONS	INITIALSIGNED
8.	15/JUL/14	ISSUE FOR FINAL APPROVAL	R.S.
7.	16/MAY/14	REVISED AS PER MOE COMMENTS	R.S.
6.	14/MAY/14	UTILITY SIGN OFF	R.S.
5.	07/MAR/14	ISSUE FOR MOE	R.S.
4.	13/FEB/14	ISSUE FOR TENDER	R.S.
3.	04/DEC/13	THRID SUBMISSION	R.S.
2.	19/AUG/13	SECOND SUBMISSION	R.S.
1.	15/FEB/13	FIRST SUBMISSION	R.S.

The Sernas Group Inc. (a GHD Company)
11 Alibabato Parkway, Suite 310
Markham, ON L3R 9T8

T: 905.752.4300
F: 905.752.4301
www.ghd.com

M. R. SERRAO
100165679
LICENSED PROFESSIONAL ENGINEER
PROVINCE OF ONTARIO

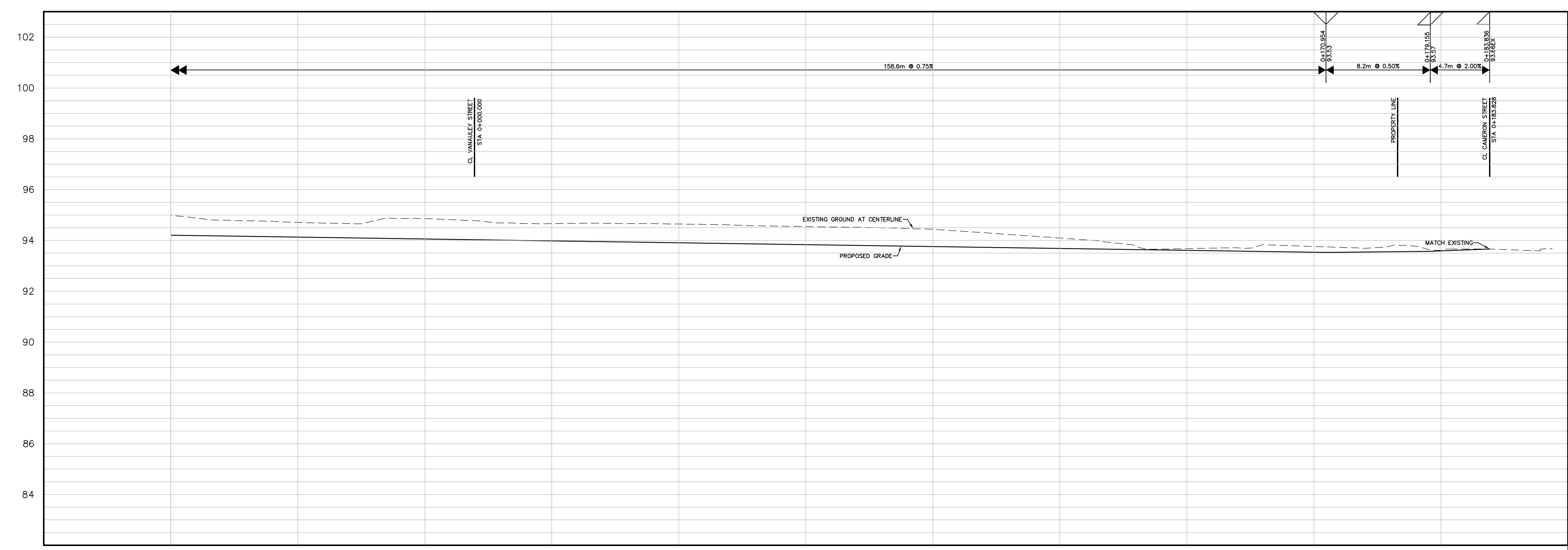
Toronto ENGINEERING AND CONSTRUCTION SERVICES DIVISION

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

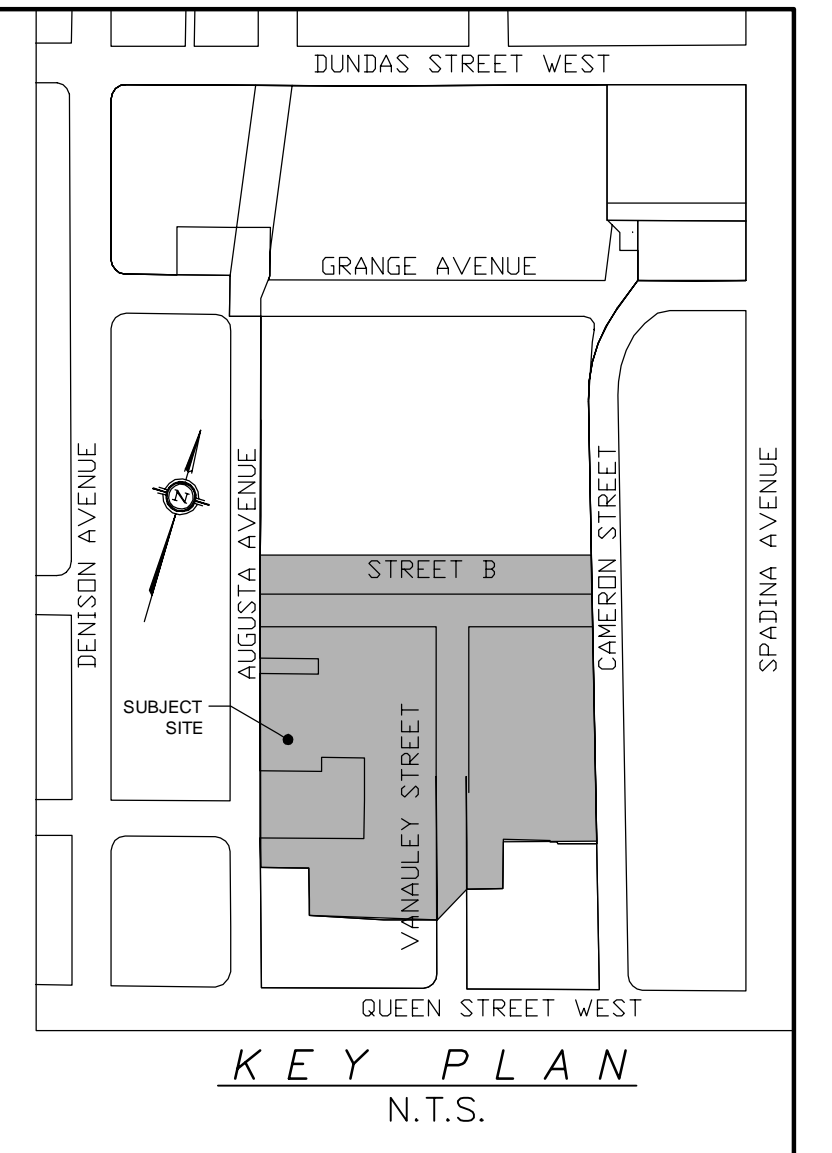
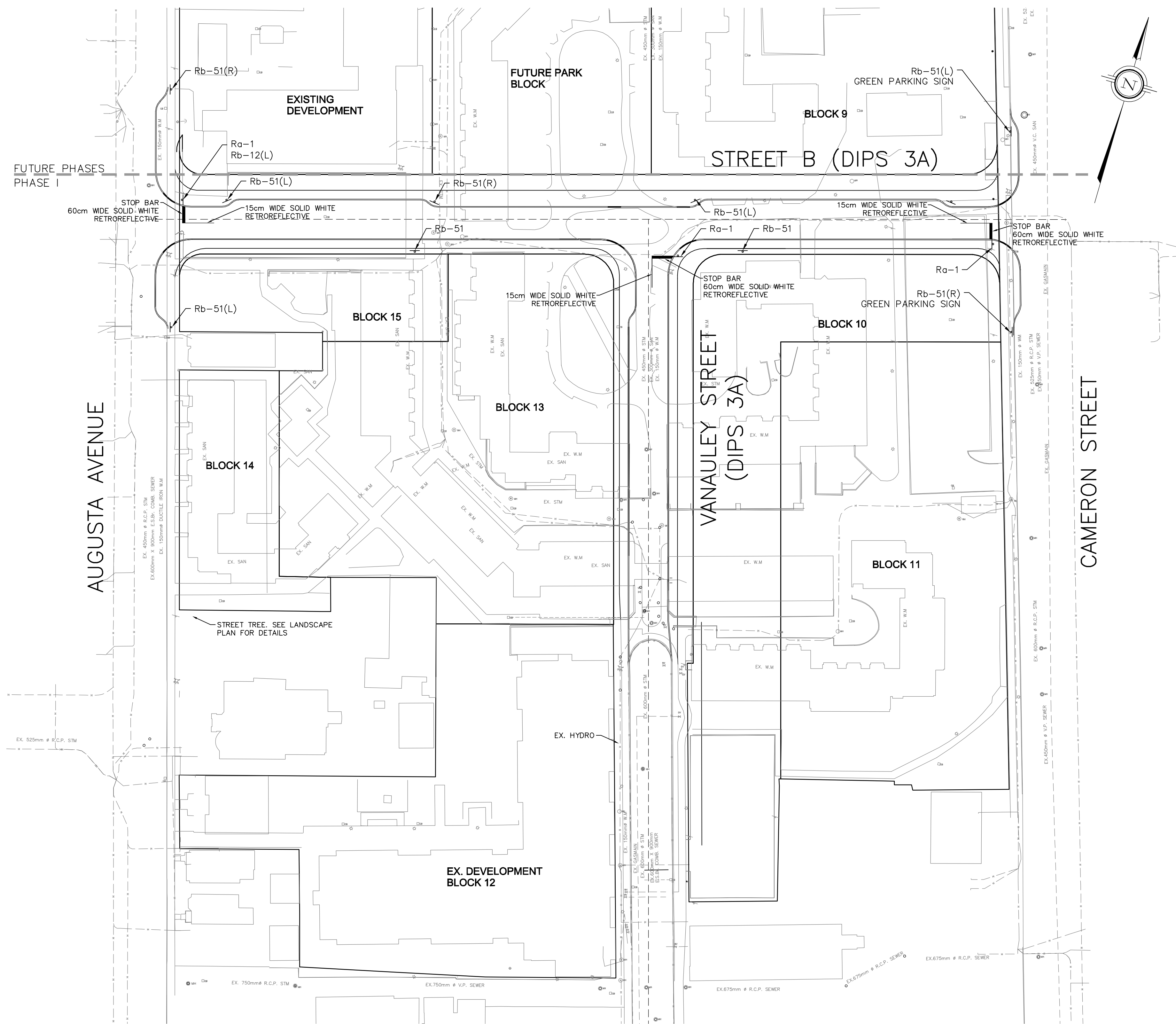
MANAGER, ENGINEERING REVIEW _____ DATE: _____

ALEXANDRA PARK STREET B - GRADING FROM STA 0+080.000 TO 0+183.870

DESIGN	D.C.	DRAWN	D.C.	CHECKED	J.F.	CONTRACT No. 13011
SCALE:	1:200 HORIZONTAL 1:100 VERTICAL		CITY DRAWING NO.			DRAWING NUMBER
DATE:	DECEMBER 2013		X-XXX-XXX			P-104a



SURFACE ELEVATION	94.98 94.207	94.86 94.057	94.64 93.586	94.44 93.758	93.68 93.609	93.67 93.585
STATION	0+080.000	0+100.000	0+120.000	0+140.000	0+160.000	0+180.000



LEGEND

-  Ra-1
-  GREEN PARKING SIGN
-  Rb-51
-  Rb-51(R)
-  Rb-51(L)
-  Rb-12(L)

BENCHMARK
ELEVATIONS SHOWN HEREON ARE GEODETIC AND ARE REFERRED TO THE CITY OF TORONTO BENCHMARK N.O. CT1611, HAVING A PUBLISHED ELEVATION OF 95.938 METRES.

STORM AND SANITARY
ECA APPROVAL No. 8015-9LUU3W

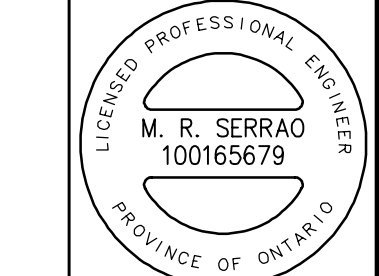
WATERMIAN
APPROVED ON JUNE 23, 2014

CONTRACTOR TO BE RESPONSIBLE FOR LOCATION OF ALL EXIST'G U/G & OVERHEAD UTILITIES. VARIOUS UTILITIES CONCERNED TO BE GIVEN REQUIRED ADVANCE NOTICE PRIOR TO ANY DIGGING, FOR STAKE OUT. THE CONSULTANT ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF EXISTING UTILITIES AS INDICATED ON THIS DRAWING.

TOPOGRAPHY BY MMM Geomatics Ontario Ltd. (Sept. 17, 2009)

DIGITAL INFORMATION			
No.	DATE	REVISIONS	INITIALSIGNED
8.	15/JUL/14	ISSUE FOR FINAL APPROVAL	R.S.
7.	16/MAY/14	REVISED AS PER MOE COMMENTS	R.S.
6.	14/MAY/14	UTILITY SIGN OFF	R.S.
5.	07/MAR/14	ISSUE FOR MOE	R.S.
4.	13/FEB/14	ISSUE FOR TENDER	R.S.
3.	04/DEC/13	THIRD SUBMISSION	R.S.
2.	19/AUG/13	SECOND SUBMISSION	R.S.
1.	15/FEB/13	FIRST SUBMISSION	R.S.

The Sernas Group Inc. (a GHD Company)
11 Alkhalifa Parkway, Suite 310
Markham, ON L3R 9T8
T: 905.752.4300
F: 905.752.4301
www.ghd.com



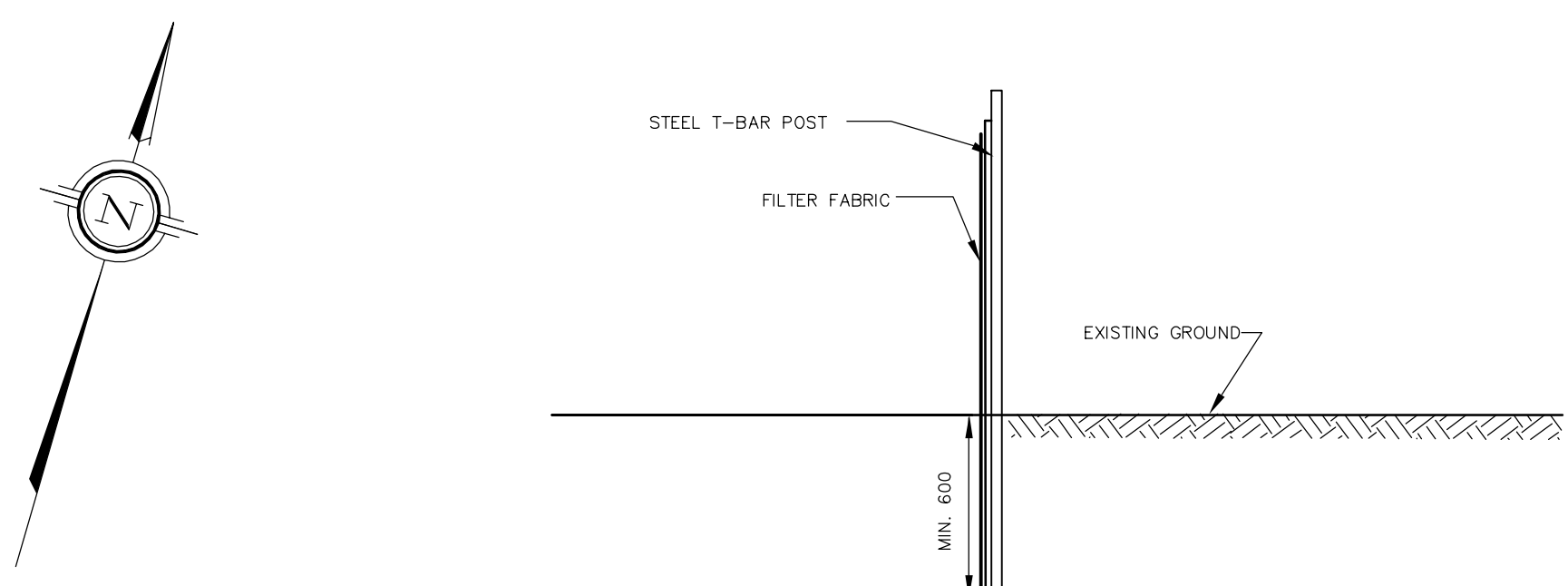
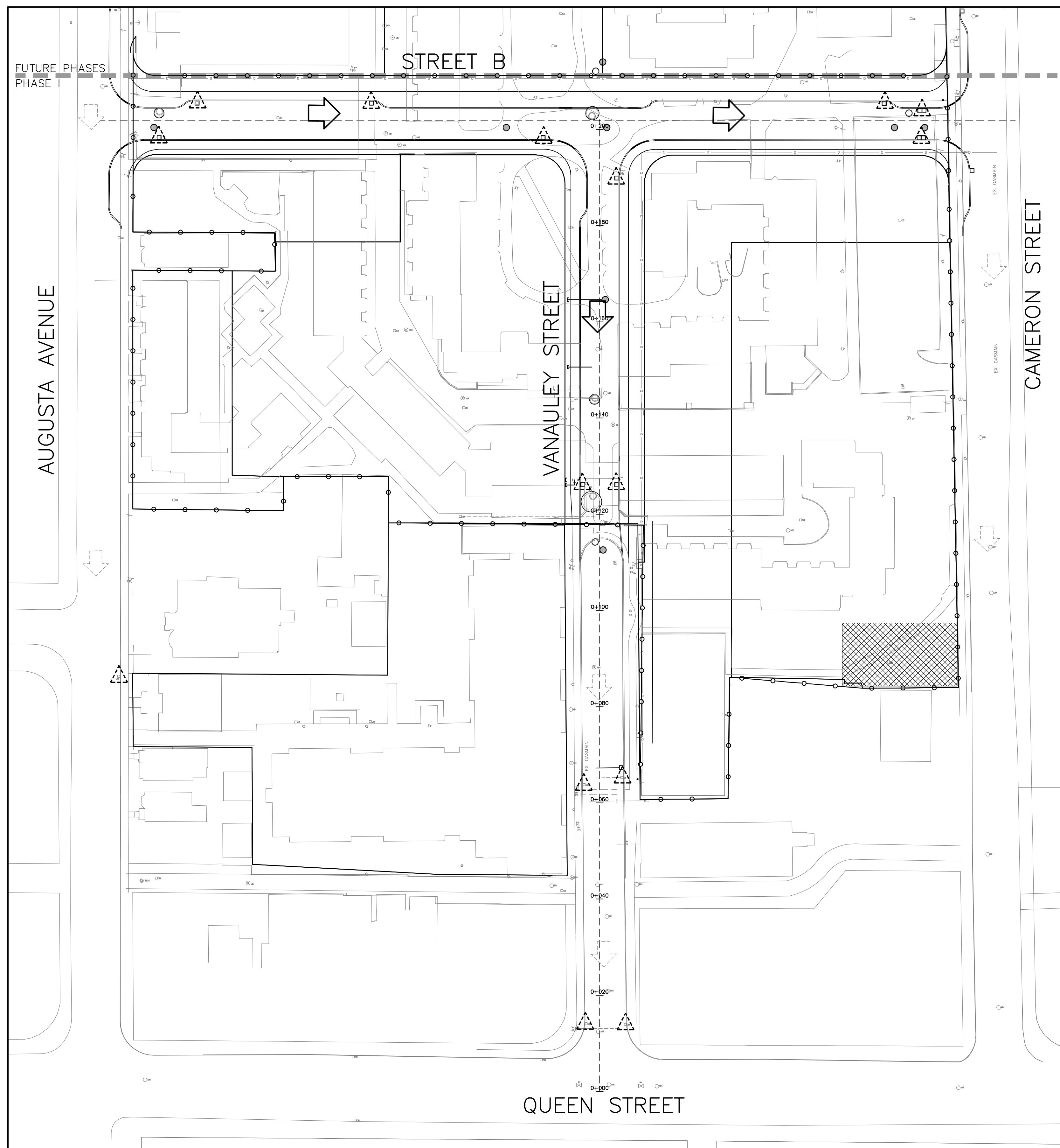
Toronto ENGINEERING AND CONSTRUCTION SERVICES DIVISION

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

MANAGER, ENGINEERING REVIEW _____ DATE: _____

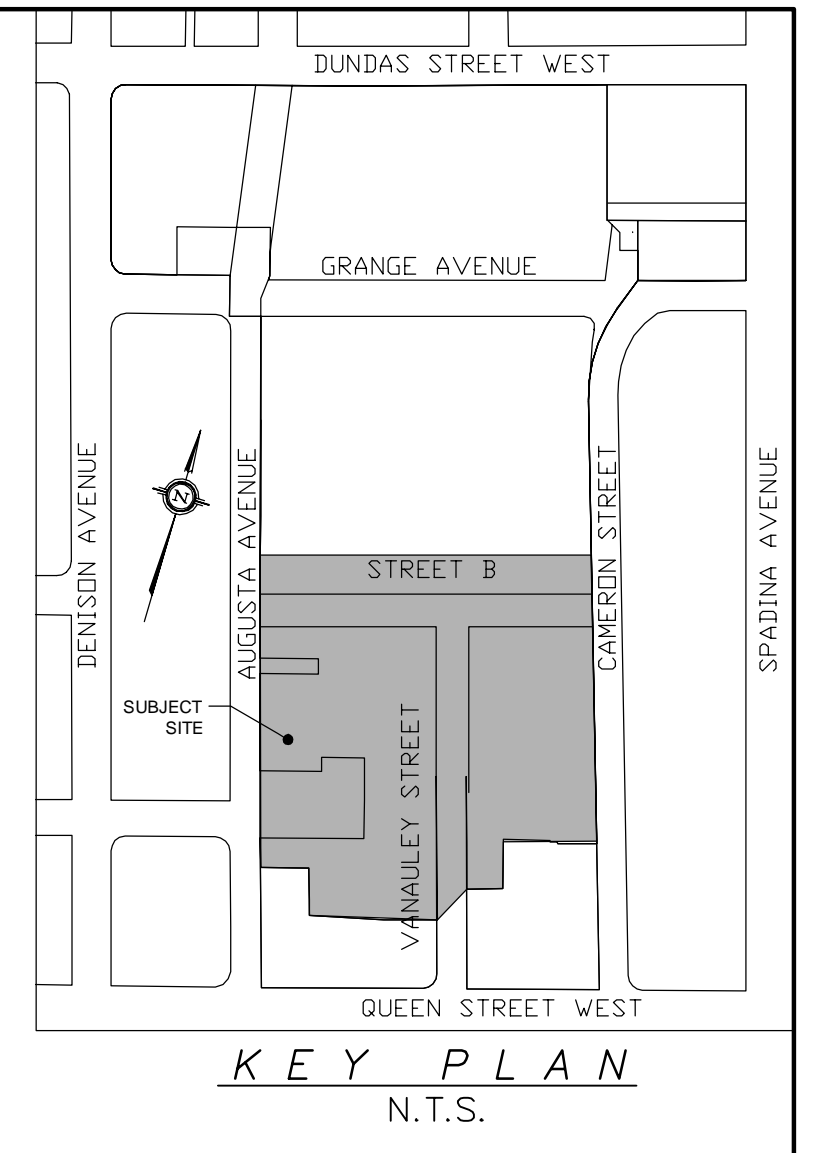
**ALEXANDRA PARK
PAVEMENT MARKING PLAN**

DESIGN	D.C.	DRAWN	D.C.	CHECKED	J.F.	CONTRACT No. 13011
SCALE:	1:500	CITY DRAWING NO.			DRAWING NUMBER	
DATE:	DECEMBER 2013	X-XXX-XXX			PM-101	



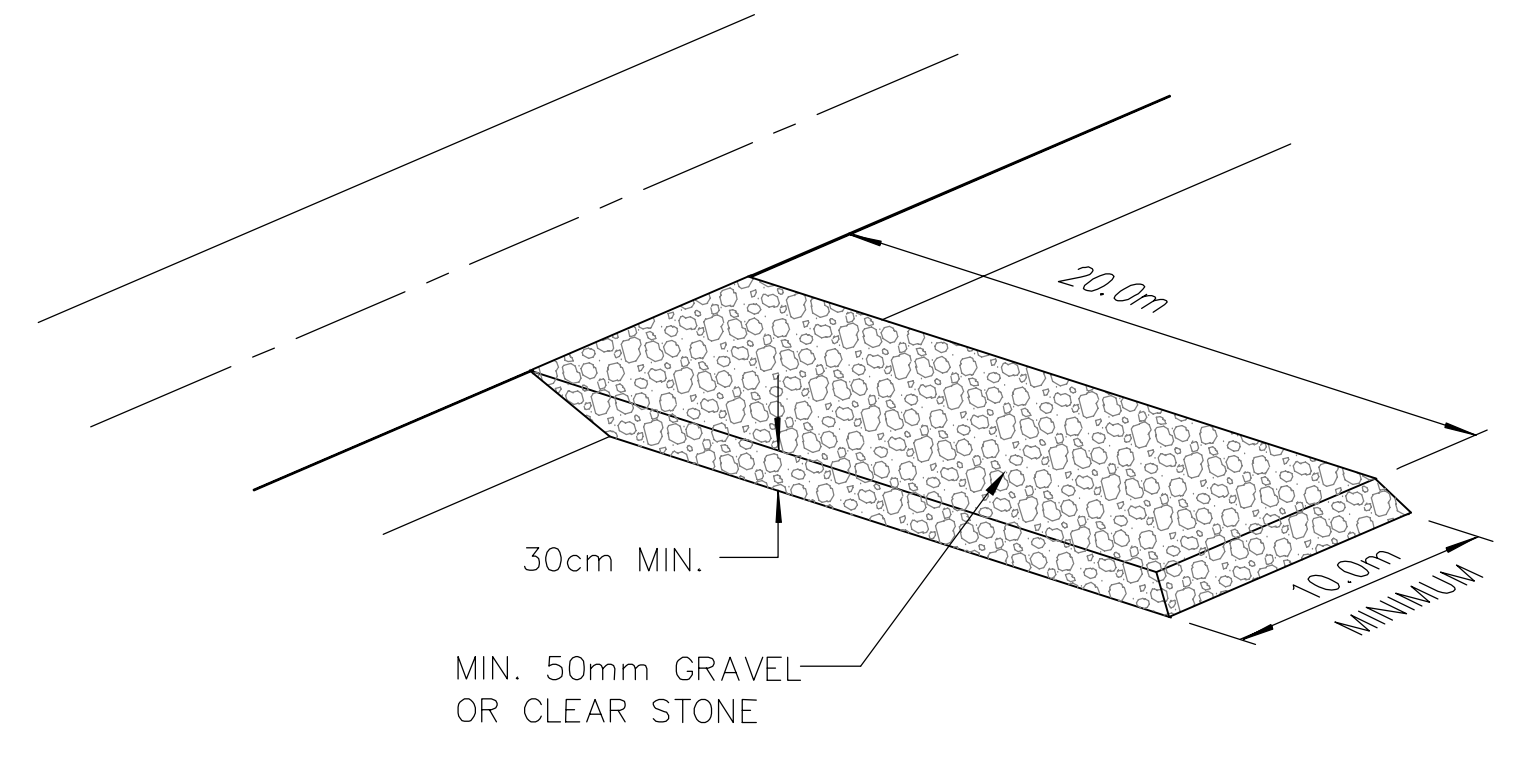
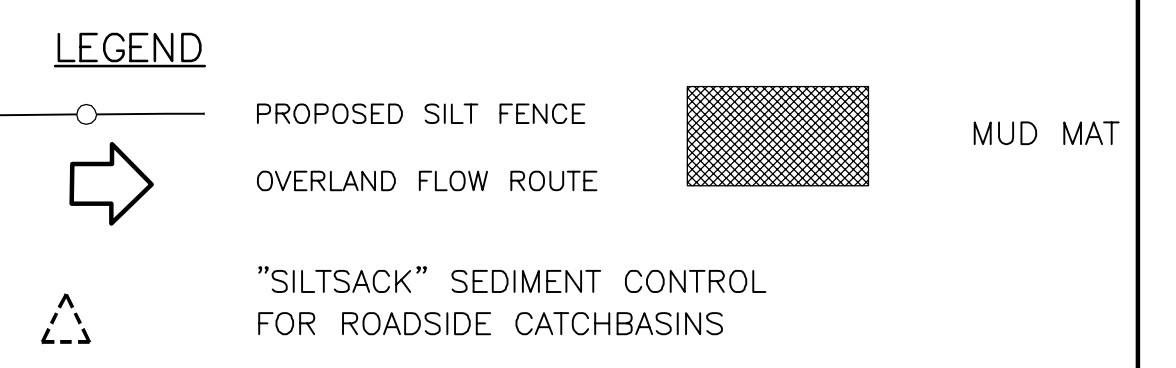
SILT FENCE DETAIL
AS PER CITY OF TORONTO
STANDARD T-219.130-1

SILT/SEDIMENT CONTROL FENCE
N.T.S.

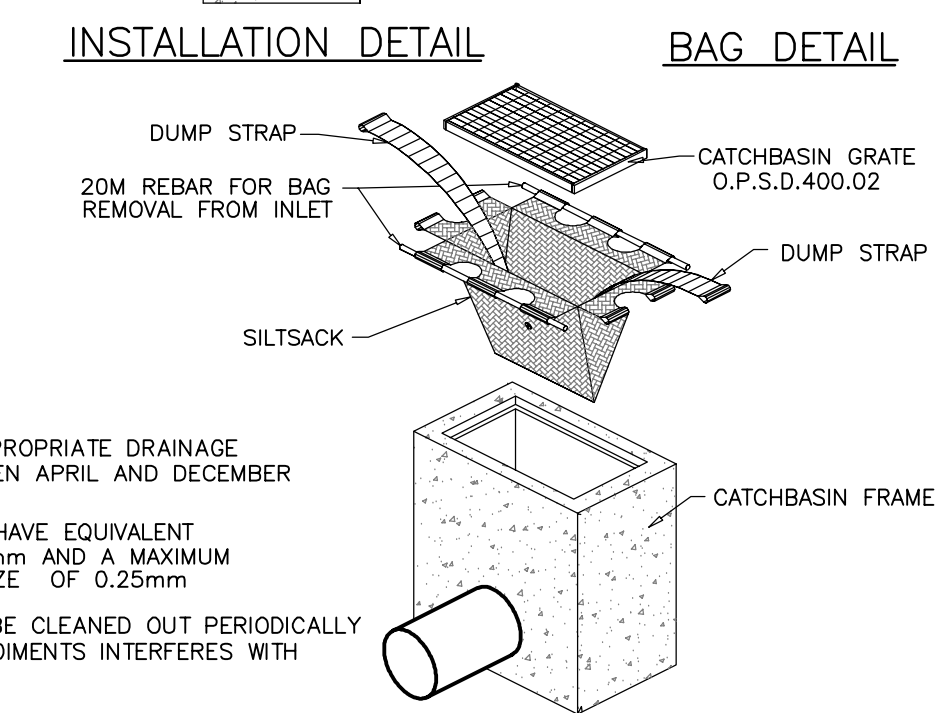
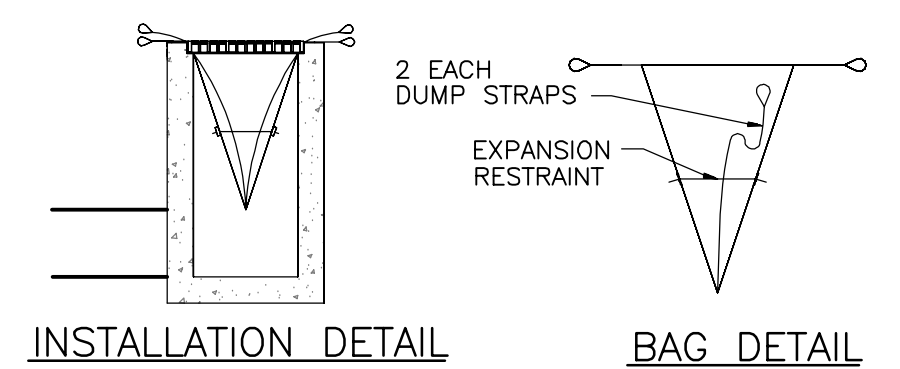


KEY PLAN
N.T.S.

NOTE
1. MEASUREMENTS IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE SHOWN.



MUD MAT - CONSTRUCTION ENTRANCE
N.T.S.



CATCHBASIN SEDIMENT PROTECTION DETAIL
N.T.S.

NOTE
1. TO BE USED UNDER APPROPRIATE DRAINAGE CIRCUMSTANCES, BETWEEN APRIL AND DECEMBER
2. WOVEN GEOTEXTILE TO HAVE EQUIVALENT OPENING SIZE OF 0.15mm AND A MAXIMUM EQUIVALENT OPENING SIZE OF 0.25mm
3. WOVEN GEOTEXTILE TO BE CLEANED OUT PERIODICALLY WHEN ACCUMULATED SEDIMENTS INTERFERES WITH DRAINAGE.

BENCHMARK
ELEVATIONS SHOWN HEREON ARE GEODETIC AND ARE REFERRED TO THE CITY OF TORONTO BENCHMARK No. CT1611, HAVING A PUBLISHED ELEVATION OF 95.938 METRES.

STORM AND SANITARY EXISTING OVERLAND FLOW
ECA APPROVAL No. 8015-9LUU3W

WATERMIAN
APPROVED ON JUNE 23, 2014

CONTRACTOR TO BE RESPONSIBLE FOR LOCATION OF ALL EXIST'G U/G & OVERHEAD UTILITIES. VARIOUS UTILITIES CONCERNED TO BE GIVEN REQUIRED ADVANCE NOTICE PRIOR TO ANY DIGGING, FOR STAKE OUT. THE CONSULTANT ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF EXISTING UTILITIES AS INDICATED ON THIS DRAWING.

TOPOGRAPHY BY MMM Geomatics Ontario Ltd. (Sept. 17, 2009)

DIGITAL INFORMATION

No.	DATE	REVISIONS	INITIALS	SIGNED
8.	15/JUL/14	ISSUE FOR FINAL APPROVAL		R.S.
7.	16/MAY/14	REVISED AS PER MOE COMMENTS		R.S.
6.	14/MAY/14	UTILITY SIGN OFF		R.S.
5.	07/MAR/14	ISSUE FOR MOE		R.S.
4.	13/FEB/14	ISSUE FOR TENDER		R.S.
3.	04/DEC/13	THIRD SUBMISSION		R.S.
2.	19/AUG/13	SECOND SUBMISSION		R.S.
1.	15/FEB/13	FIRST SUBMISSION		R.S.

The Sernas Group Inc. (a GHD Company)
11 Alibon Parkway, Suite 310
Markham, ON L3R 9T8
T: 905.752.4300
F: 905.752.4301
www.ghd.com

Toronto ENGINEERING AND CONSTRUCTION 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.

MANAGER, ENGINEERING REVIEW DATE: _____

ALEXANDRA PARK
EROSION AND SEDIMENT CONTROL PLAN
PHASE I

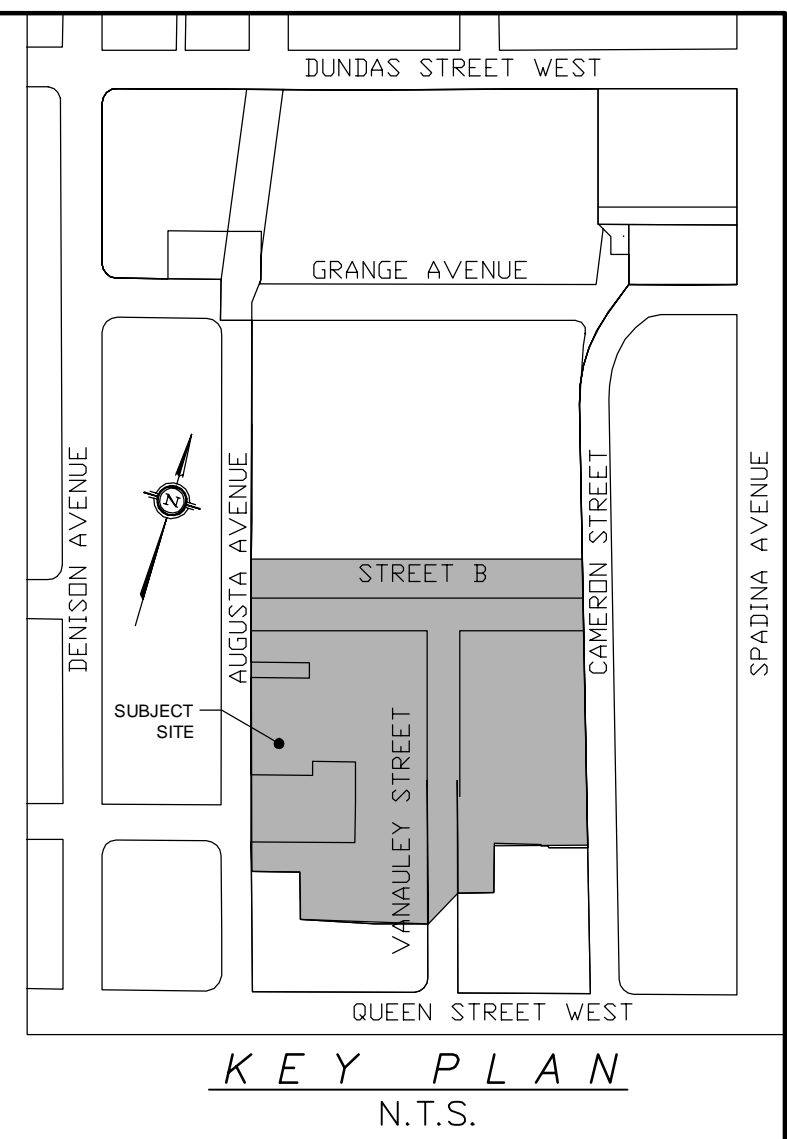
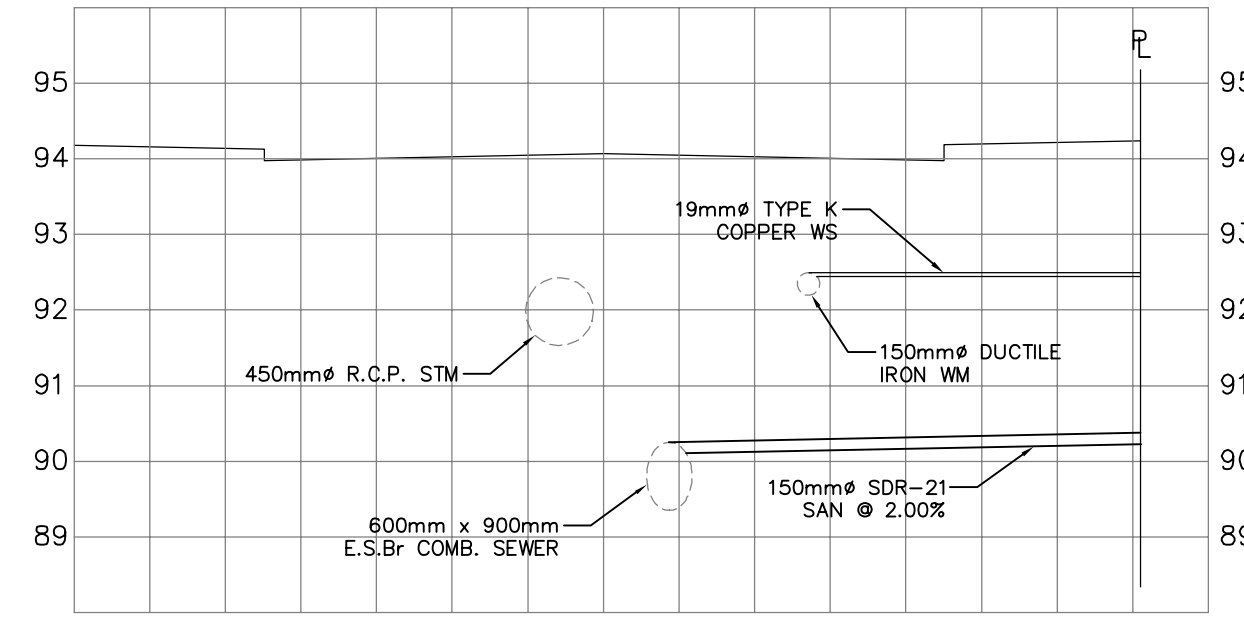
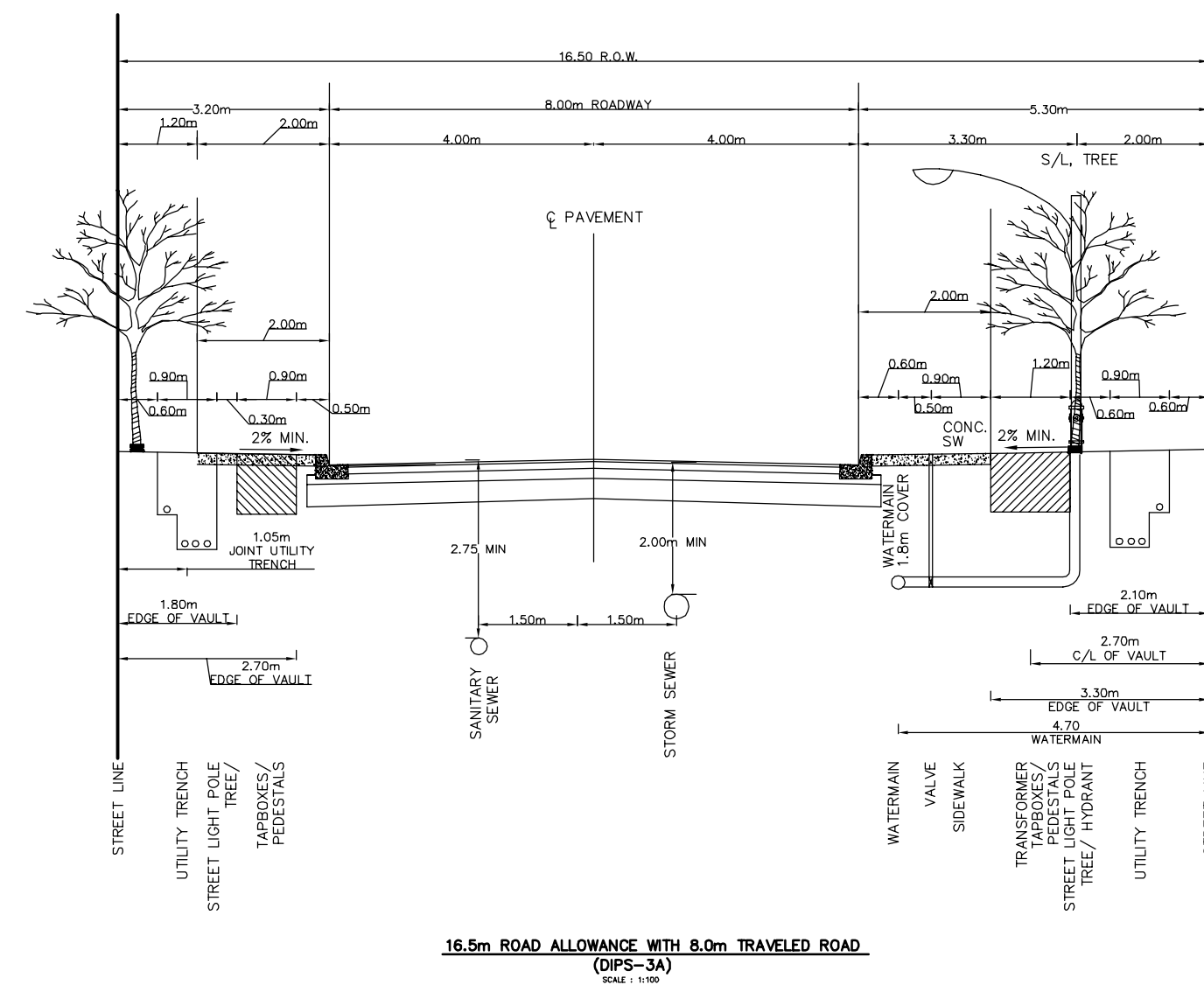
EROSION AND SEDIMENT CONTROL

- SEDIMENT BARRIERS, CHECK DAMS, AND TEMPORARY CONSTRUCTION ACCESS TO BE INSTALLED PRIOR TO THE BEGINNING OF CONSTRUCTION.
- ALL SEDIMENT CONTROL DEVICES TO BE ROUTINELY INSPECTED AND MAINTAINED IN PROPER WORKING ORDER UNTIL AREA IS STABILIZED.
- IF NECESSARY, TRUCKS WILL BE WASHED DOWN BEFORE LEAVING THE SITE.
- THE SITE WILL BE WET DOWN IF NECESSARY TO CONTROL DUST.
- ALL CONSTRUCTION EQUIPMENT MUST BE PARKED ON-SITE.
- ALL CONSTRUCTION ACTIVITY WILL COMPLY WITH CITY OF TORONTO NOISE BYLAW.
- SEDIMENT CONTROL FENCE TO BE AS PER CITY OF TORONTO STANDARD T-219.130-1.
- ALL CONSTRUCTION VEHICLES TO ENTER AND EXIT SITE FROM TEMPORARY CONSTRUCTION ACCESS.
- ALL TOPSOIL STOCKPILES TO BE SURROUNDED WITH SEDIMENT CONTROL FENCING.
- FILTER FABRIC TO BE PLACED UNDER GRATES ON ALL CATCHBASINS TO TRAP SEDIMENT. SILT TRAPS ARE TO BE CLEANED REGULARLY AND ARE NOT TO BE REMOVED UNTIL SUCH TIME AS THE CURBS ARE CONSTRUCTED AND THE BOULEVARDS ARE SODDED OR BACKYARDS GRADED AND SODDED. FILTER FABRIC FOR SILT CONTROL TO BE TERRA FIX 270R OR APPROVED EQUIVALENT.
- FILTER CLOTH WILL BE PLACED ON THE CATCHBASINS ON PUBLIC STREET ACROSS THE PROPERTY'S FRONTAGE.
- IN THE CASE OF ANY CONFLICT WITH ANOTHER PLAN, THIS PLAN PREVAILS ONLY IN RESPECT TO CONSTRUCTION MEASURES AND ACTIVITIES SUCH AS THE CONSTRUCTION ACCESS, SILT FENCE, SECURITY FENCING, SEDIMENT CONTROL, AND MUD MATS.
- STREET SWEEPING, CATCH BASIN CLEANING AND DUST CONTROL ARE THE RESPONSIBILITY OF THE DEVELOPER AND MUST BE KEPT UNDER CONTROL ON ALL ROADWAYS TO THE SATISFACTION OF THE CITY.

ADDITIONAL NOTES

- ANY TREES SELECTED BY LANDSCAPE ARCHITECT FOR PRESERVATION TO BE PROTECTED BY SNOW FENCE. LANDSCAPE ARCHITECT TO INDICATE ANY TREES THAT ARE TO BE TRANSPLANTED.
- ALL TOPSOIL STOCKPILES WHICH ARE STOCKED FOR MORE THAN 30 DAYS SHALL BE SEEDED.
- SEDIMENT WHICH COLLECTS IN THE TEMPORARY SEDIMENT CONTROL FACILITIES WILL BE REMOVED WHEN FACILITY IS HALF FULL.
- WRITTEN APPROVAL IS TO BE RECEIVED FROM PARKS DEPT. PRIOR TO STOCKPILING TOPSOIL ON ANY PARK BLOCK.
- SILT CONTROL FENCE TO REMAIN IN PLACE UNTIL THE WORKING AREA HAS BEEN STABILIZED AND REVEGETATED.
- CONTRACTOR TO INSTALL AND MAINTAIN MUD MAT AT CONSTRUCTION ACCESS IN ORDER TO PREVENT MUD TRACKING ONTO ADJACENT ROADS. MUD MAT TO BE MINIMUM 20.0m LONG AND 10.0m WIDE AND SHALL CONSIST OF 0.3m OF 50mm CLEAR STONE.
- CONTRACTOR TO CLEAN ADJACENT ROADS ON A REGULAR BASIS TO THE SATISFACTION OF THE AFFECTED AUTHORITY.
- ALL STREET CATCHBASINS TO BE PROVIDED WITH TERRAFIX 270R OR APPROVED EQUAL UNDER GRATE, TO BE KEPT IN PLACE UNTIL SITE IS STABILIZED.
- SEDIMENT BASIN AND SILT BERM TO BE CONSTRUCTED UNDER THE SUPERVISION OF THE PROJECT GEOTECHNICAL CONSULTANT. ALL BERM MATERIAL TO BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING.
- THE EROSION AND SEDIMENT CONTROL (ESC) STRATEGIES OUTLINED ON THE PLANS ARE NOT STATIC AND MAY NEED TO BE UPGRADED/AMENDED AS SITE CONDITIONS CHANGE TO PREVENT SEDIMENT RELEASES TO THE NATURAL ENVIRONMENT. ESC MEASURES SHOULD BE INSPECTED ON A WEEKLY BASIS, AND ALSO DURING AND AFTER RAINFALL EVENTS. FAILED ESC MEASURES SHOULD BE REPAIRED WITHIN 48 HOURS.
- ANY DISTURBED SURFACE THAT IS TO BE LEFT EXPOSED FOR 30 DAYS OR GREATER SHOULD BE STABILIZED USING APPROPRIATE MEASURES.

DESIGN	D.C.	DRAWN	D.C.	CHECKED	J.F.	CONTRACT No. 13011
SCALE:	1:500		CITY DRAWING NO.		DRAWING NUMBER	
DATE:	DECEMBER 2013		X-XXX-XXX		ERS-101	



BENCHMARK
ELEVATIONS SHOWN HEREON ARE GEODETIC AND ARE REFERRED TO THE CITY OF TORONTO BENCHMARK N.O. CT1611, HAVING A PUBLISHED ELEVATION OF 95.938 METRES.

STORM AND SANITARY
ECA APPROVAL No. 8015-9LUU3W

WATERMIAN
APPROVED ON JUNE 23, 2014

CONTRACTOR TO BE RESPONSIBLE FOR LOCATION OF ALL EXIST'G U/G & OVERHEAD UTILITIES. VARIOUS UTILITIES CONCERNED TO BE GIVEN REQUIRED ADVANCE NOTICE PRIOR TO ANY DIGGING, FOR STAKE OUT. THE CONSULTANT ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF EXISTING UTILITIES AS INDICATED ON THIS DRAWING.

TOPOGRAPHY BY MMM Geomatics Ontario Ltd. (Sept. 17, 2009)

DIGITAL INFORMATION			
No.	DATE	REVISIONS	INITIALSIGNED
8.	15/JUL/14	ISSUE FOR FINAL APPROVAL	R.S.
7.	16/MAY/14	REVISED AS PER MOE COMMENTS	R.S.
6.	14/MAY/14	UTILITY SIGN OFF	R.S.
5.	07/MAR/14	ISSUE FOR MOE	R.S.
4.	13/FEB/14	ISSUE FOR TENDER	R.S.
3.	04/DEC/13	THIRD SUBMISSION	R.S.
2.	19/AUG/13	SECOND SUBMISSION	R.S.
1.	15/FEB/13	FIRST SUBMISSION	R.S.

The Sernas Group Inc. (a GHD Company)
11 Alibon Parkway, Suite 310
Markham, ON L3R 9T8

GHD

1-905-752-4300
F-905-752-4301
www.ghd.com

LICENSED PROFESSIONAL ENGINEER
M. R. SERRAO
100165679
PROVINCE OF ONTARIO

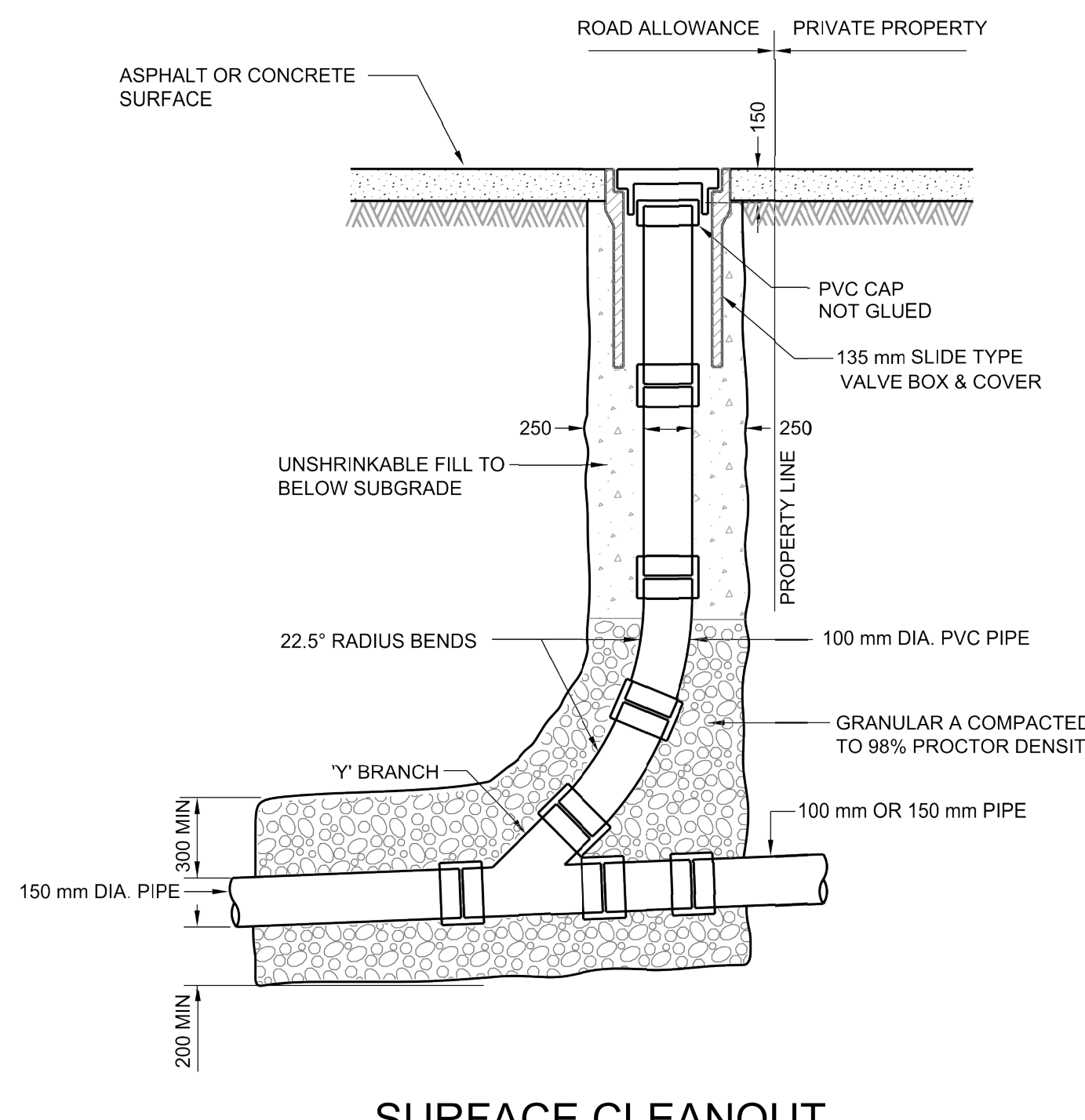
Toronto ENGINEERING AND CONSTRUCTION SERVICES DIVISION

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

MANAGER, ENGINEERING REVIEW DATE: _____

**ALEXANDRA PARK
DETAILS**

DESIGN	D.C.	DRAWN	D.C.	CHECKED	J.F.	CONTRACT No. 13011
SCALE:	N.T.S.		CITY DRAWING NO.		DRAWING NUMBER	
DATE:	DECEMBER 2013		X-XXX-XXX		DET-101	

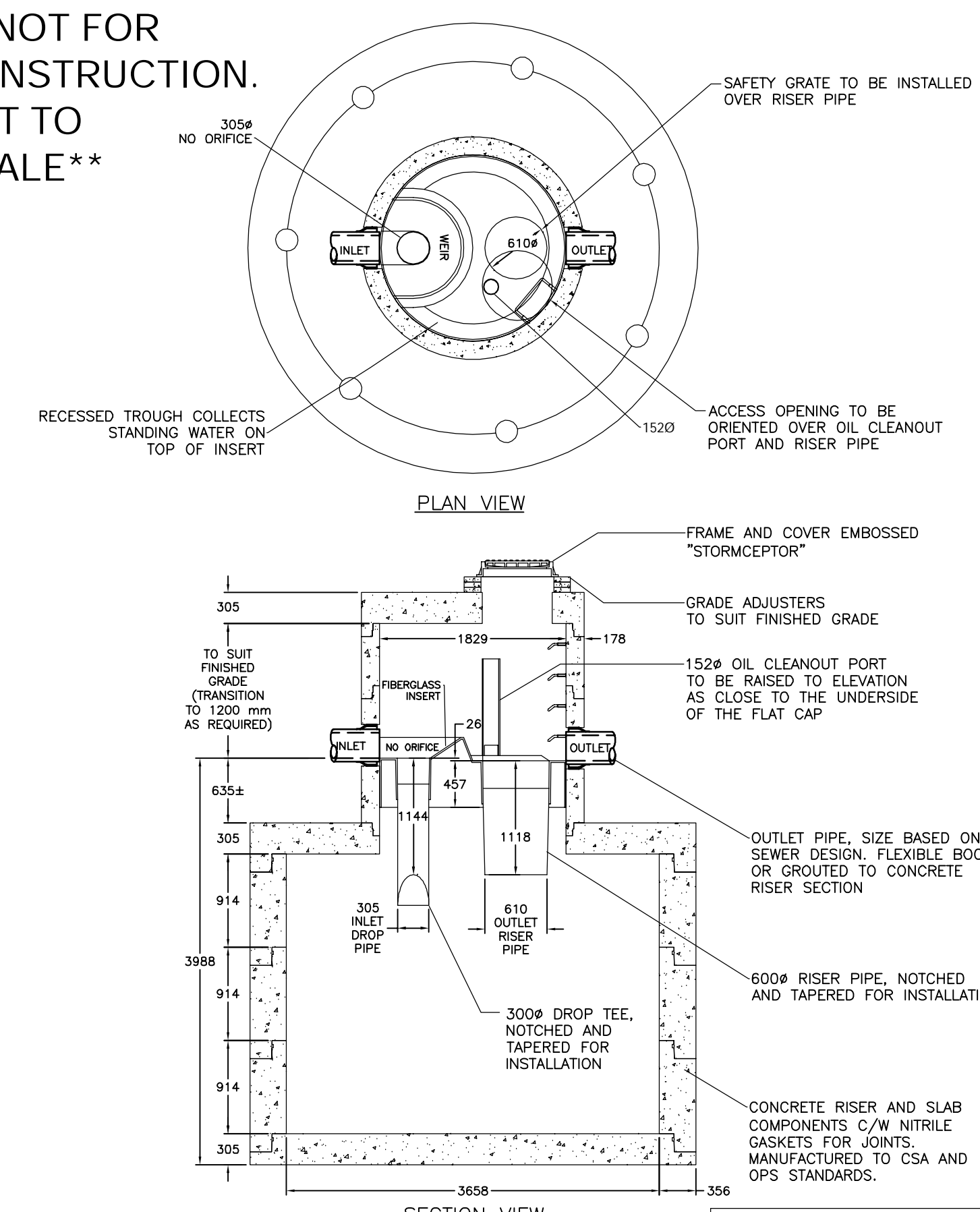


- NOTES:
- INSTALL 135 mm SLIDE TYPE VALVE BOX AND COVER (MARKED SEWER) OVER PVC CAP, NOT GLUED.
 - USE EAST JORDAN IRON WORKS PRODUCT No. 85508024 WITH 6800 SERIES DROP LID OR APPROVED EQUAL.
 - FOR USE IN PAVED AREAS.
 - THIS CONFIGURATION FOR HOUSE CONNECTIONS ONLY.

All dimensions are in millimetres unless otherwise shown.

Toronto	ENGINEERING AND CONSTRUCTION SERVICES STANDARD DRAWING	REV 0	APR 2013
	SANITARY SEWER CLEANOUT OPTION "A" 100 mm SURFACE CLEANOUT	T-708.01-5	
		NTS	SHEET 1

**** NOT FOR CONSTRUCTION. NOT TO SCALE ****



THE STORMCEPTOR SYSTEM IS PROTECTED BY ONE OR MORE OF THE FOLLOWING PATENTS:

CANADIAN PATENT NO. 2,009,208
CANADIAN PATENT NO. 2,137,942
CANADIAN PATENT NO. 2,175,277
CANADIAN PATENT NO. 2,180,305
CANADIAN PATENT NO. 2,180,383
CANADIAN PATENT NO. 2,206,338

Hanson

R.R. 2, CAMBRIDGE, ONTARIO N6B 5S3
TEL: 519-882-7919
F: 519-882-8222
FAX: 519-821-8233
www.hanson.com

**IN-LINE STORMCEPTOR
MODEL STC 6000**

STC 6000 CAPACITIES		
SEDIMENT CAPACITY (L)	OIL CAPACITY (L)	TOTAL CAPACITY (IMP. GAL.)
26945	3930	31285 (6883)

14 OCT 09 S.K. METRIC G-9