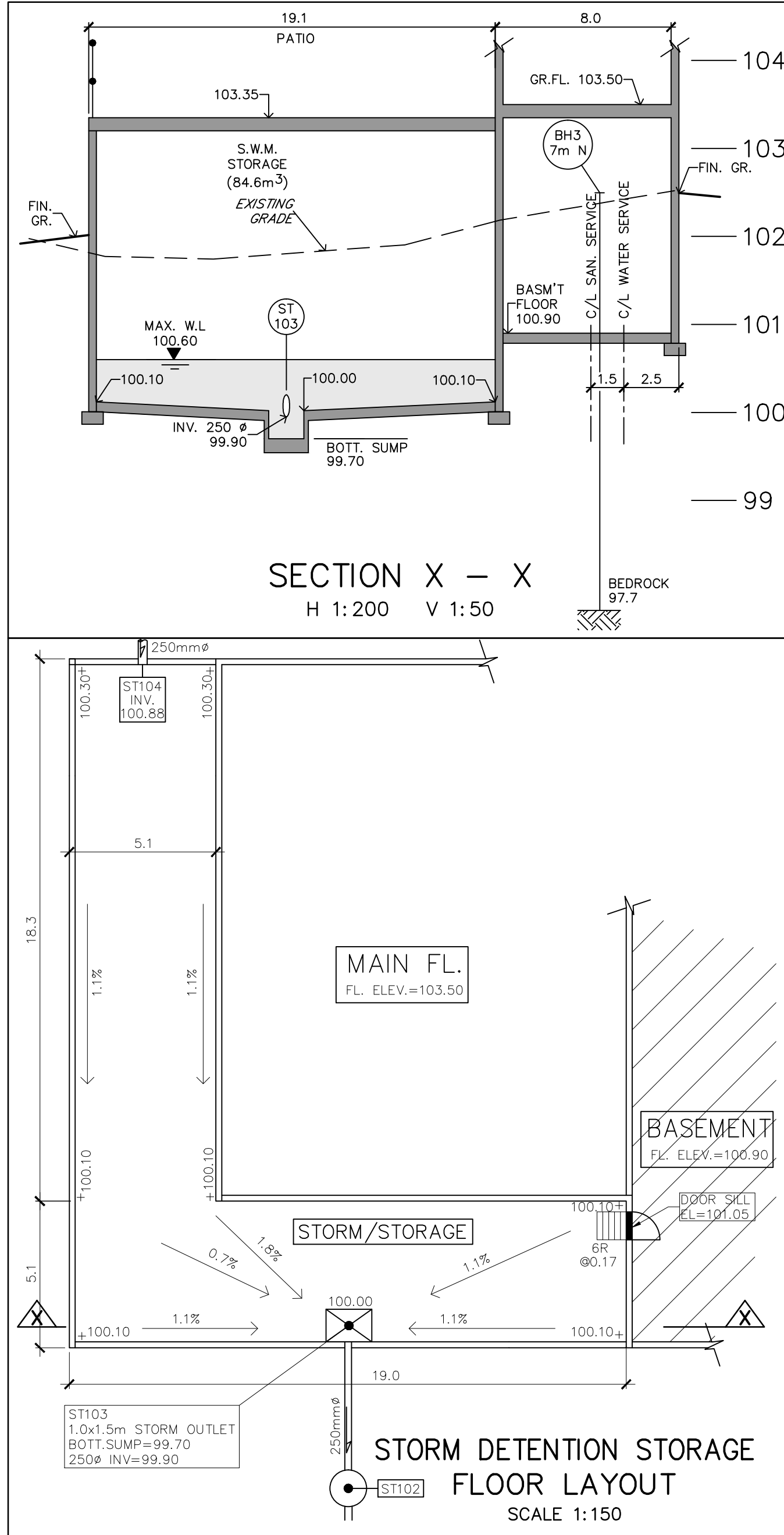


NOTES & SPECIFICATIONS

- GENERAL: SITE INFORMATION COMPILED FROM EXISTING CITY RECORDS, TOPO AND SITE BOUNDARY SURVEY BY OTHERS AND ENGINEER'S FIELD NOTES. REPORT ALL DISCREPANCIES PRIOR TO ANY WORK.
- MODIFICATIONS/REVISIONS: NO MODIFICATIONS TO THIS DRAWING AND SPECIFICATIONS AND NO MATERIALS SUBSTITUTION IS PERMITTED WITHOUT THE WRITTEN AUTHORIZATION OF BOTH THE ENGINEER AND THE OWNER.
- ENGINEER'S STAMP: USE OF THIS DRAWING WITHOUT THE ENGINEER'S SIGNED STAMP CURRENT TO THE LATEST REVISION IS NOT ALLOWED AND SHOULD ANY SUCH USE OCCUR, THE ENGINEER IS RELEASED OF ANY RESPONSIBILITY.
- SITE BOUNDARIES: FOR SITE BOUNDARY DIMENSIONS REFER TO TOPOGRAPHICAL PLAN BY FAIRHALL, MOFFATT AND WOODLAND, O.L.S. (SURVEY COMPLETED JUNE 9, 2015.)
- SITE BENCHMARK: ALL ELEVATIONS SHOWN ON THIS PLAN ARE TO GEODETIC DATUM AND ARE REFERENCED TO JOB BENCHMARKS No. 1 AND No. 2 SHOWN ON THE PLAN.
- EXISTING CONDITIONS: 6.1 SURFACE: EXISTING GROUND SURFACE ELEVATIONS SHOWN ON THIS DRAWING ARE TAKEN FROM THE TOPOGRAPHICAL PLAN REFERRED TO IN NOTE 4, ABOVE. 6.2 SUBSURFACE: REFER TO GEOTECHNICAL INVESTIGATION REPORT BY DST CONSULTING ENGINEERS INC. DATED OCTOBER 2015 (REPORT No. IN-50-021872).
- LAYOUT: ALL DIMENSIONS ARE SHOWN IN METRES UNLESS OTHERWISE NOTED. REFER TO ARCHITECT'S SITE PLAN FOR HORIZONTAL LAYOUT DIMENSIONS OF MAJOR SITE FEATURES INCLUDING BUILDINGS, ENTRANCE, ROADWAY, DRIVEWAYS, SIDEWALKS AND RETAINING WALLS. THE CONTRACTOR IS RESPONSIBLE FOR LAYOUT OF ALL UNDERGROUND SERVICES, GRADING, ROADWAYS, DRIVEWAYS, SIDEWALKS AND RETAINING WALLS. REFER TO THIS PLAN FOR LAYOUT OF PROPOSED GRADES.
- PERMITS: THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL CONSTRUCTION RELATED PERMITS, FEES, APPROVALS AND INSPECTIONS REQUIRED BY THE CITY AND THE PROVINCE.
- SPECIFICATIONS (GENERAL): ALL MATERIALS, CONSTRUCTION, TESTING AND DISINFECTION OF ON-SITE AND OFF-SITE UNDERGROUND SERVICES FOR WATER SUPPLY, SANITARY AND STORM DRAINAGE SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD SPECIFICATIONS CURRENTLY IN EFFECT (PUBLIC SERVICES & WORKS DEPARTMENT, INFRASTRUCTURE SERVICES BRANCH), BY REFERENCE TO ONTARIO STANDARDS OPSS & OPSD AND BY REFERENCE TO CSA, ASTM AND AWWA STANDARDS.



PROPOSED SEWER STRUCTURE DATA					
I.D. No.	PROPOSED GRADE		SPECIFICATIONS		
	TOP	INVERT	STRUCTURE	FRAME & COVER	DETAILS
STORM					
ST101	101.32	99.15	MH/701.010	S24.1/S25	300mm SUMP
ST102	101.40	99.60 (250 N)	CBMH/701.010	S28.1/S25	300mm SUMP, 125mm ICD @ CENTER OF 250ø OUTLET, PLUG TYPE SEE NOTE # 17
ST103	N/A	99.90 (250 S)	1000x1500 CONC. SUMP		200mm SUMP BELOW INV. OF 250mm PIPE, SOUTH WALL STORM/STORAGE TANK
ST104	N/A	100.88 (250ø)			NORTH WALL OF STORM/STORAGE TANK
ST105	103.35	101.02 (250 NE)	MH/701.010	S24.1/S25	300mm SUMP
ST106	103.00	101.30 (250 SW)	CBMH/701.010	S28.1/S25	300mm SUMP
ST107	103.00	101.53 (250 SE)	CBMH/701.010	S28.1/S25	300mm SUMP
CB1	103.10	101.75 (250 NW)	705.010	S19	600mm SUMP
CB2	103.00	101.04 (200)	705.010	S19	600mm SUMP
CB3	103.04	101.65 (200)	705.010	S19	600mm SUMP

- CONNECTION TO BOUNDARY SERVICES (PRIVATE): 10.1 THE CONTRACTOR SHALL CONFIRM LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND SERVICES AND STRUCTURES FOR CONNECTION OF SITE SERVICES AND DETERMINE ANY DAMAGE OR POSSIBLE CONFLICT PRIOR TO CONSTRUCTION OF NEW SEWER AND WATER WORKS. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY ERRORS, DISCREPANCIES, CONFLICTS OR OMISSIONS THAT ARE UNCOVERED. 10.2 THE CONTRACTOR SHALL NOTIFY CITY INSPECTION STAFF PRIOR TO EXCAVATING FOR CONNECTING TO SEWERS AND WATERMANS. CITY STAFF SHALL MAKE ALL CONNECTIONS TO WATERMANS. NO CONNECTION SHALL BE MADE TO SEWERS UNTIL CITY STAFF HAS INSPECTED THE UNCOVERED PIPES AND NO BACKFILLING SHALL BE COMMENCED UNTIL CITY STAFF HAS INSPECTED THE COMPLETED CONNECTION ASSEMBLY.
- WATER SERVICE CONNECTIONS: EXCAVATE TO EXPOSE EXISTING 200mm DIA WATERMAIN AT POINT OF SERVICE CONNECTION, RECORD LOCATION AND ELEVATION AT TOP OF MAIN, NOTIFY THE ENGINEER OF ANY DISCREPANCY WITH DESIGN DATA SHOWN ON THE SERVICE PROFILE PRIOR TO PROCEEDING FURTHER WITH CONNECTION ASSEMBLY.
- CONNECT TO EXISTING 200mm DIA DCL (1990) WATERMAIN PER CITY STD W33 AND AS SHOWN ON DWG PRSC-2 USING 40mm DIA SOFT COPPER TUBING (TYPE K).
- INSTALL SERVICE POST ASSEMBLY PER W35 ADJACENT TO THE BACK OF ROADWAY CURB WITH 500 x 500mm POURED CONCRETE SURFACE FLUSH WITH TOP OF CURB.
- TRENCHING, BEDDING, BACKFILLING, TESTING AND DISINFECTION PER CITY STANDARDS.
- WATER SERVICE AND REMOTE READOUT TO BE INSTALLED BY MECHANICAL CONTRACTOR.
- SANITARY SERVICE CONNECTION: EXCAVATE TO EXPOSE EXISTING 200mm DIA WATERMAIN AT CROSSING POINT OF SANITARY CONNECTION AND RECORD ELEVATION OF TOP OF MAIN, NOTIFY THE ENGINEER OF ANY DISCREPANCY WITH DESIGN DATA SHOWN ON THE SERVICE PROFILE PRIOR TO PROCEEDING FURTHER WITH INSTALLATION WORK.
- CONNECT TO EXISTING MANHOLE BY CORE DRILLING AND SEALING BETWEEN PIPE BARREL AND MANHOLE OPENING.
- SANITARY SERVICE PIPE TO BE 200mm DIA P.V.C. S.D.R. 35 C/W NITRILE PIPE GASKETS.
- INSTALL SERVICE PIPE FROM EXISTING MANHOLE TO TOP OF RISER INSIDE THE PROPOSED BUILDING WALL BY CO-ORDINATING WITH MECHANICAL CONTRACTOR.
- PIPE BEDDING AND BACKFILL PER CITY STD S6.
- STORM SERVICE CONNECTION AND STORM SEWERS: EXCAVATE TO EXPOSE EXISTING 200mm DIA STORM SEWER, 200mm DIA WATERMAIN ON PRIVATE ROADWAY AND HYDRO UNDERGROUND DUCTILE IRON PIPE (DIP) TO EXISTING 200mm DIA STORM SEWER AND GRADE DATA SHOWN ON THE DRAWINGS. REPORT ANY DISCREPANCIES OR VARIANCE WITH THE DRAWING DATA TO THE ENGINEER PRIOR TO PROCEEDING FURTHER WITH INSTALLATION WORK.
- INSTALL PRECAST MANHOLE ST101 ON THE EXISTING 300mm DIA STORM SEWER AND CONNECT PROPOSED 250mm DIA STORM SERVICE TO THE MANHOLE.
- STORM SERVICE AND STORM SEWER PIPE MATERIAL TO BE 250mm DIA P.V.C. S.D.R. 35 C/W NITRILE GASKETS.
- PIPE BEDDING AND BACKFILL PER CITY STD S6.
- INSULATION: WATERMANS INSTALLED TO 2.4m DEPTH; NO INSULATION REQUIRED. STORM AND SANITARY SEWERS INSTALLED TO LESS THAN 1.0m IN DEPTH TO OVERTURN PAVEMENT AREAS TO BE INSULATED WITH 50mm THICKNESS ACROSS WITH INSULATION ABOVE THE TOP OF PIPE. INSULATE BETWEEN WATERMAIN/SEWER CROSSINGS AND SEWER/SEWER CROSSINGS AND BETWEEN WATERMANS AND OPEN STRUCTURES AS PER CITY STANDARDS.
- LEAKAGE TESTING: FOR DESIGN CALCULATIONS, REFER TO "SITE SERVICES AND STORMWATER MANAGEMENT DESIGN BRIEF" BY ERION ASSOCIATES, PROJECT EA 14-288.
- FOUNDATION DRAIN CONNECTION: BUILDING FOUNDATION DRAIN TO CONNECT TO 250mm DIA STORM SERVICE IMMEDIATELY ADJACENT TO THE DOWNSTREAM OUTLET OUTSIDE MH ST 102.

- SPECIAL NOTE/OTHER DRAWINGS: THIS DRAWING MUST BE READ TOGETHER WITH THE LATEST REVISIONS OF THE FOLLOWING OTHER DRAWINGS IN ORDER TO PROPERLY CONSTRUCT THE WORKS:

DWG. No.	By
PROSC-2	ERION ASSOCIATES
A100	KWC ARCHITECT INC.
L-1	GNO J. AIELLO LANDSCAPE ARCHITECT
ES1/ES2	R.J. MCKEE ENGINEERING LTD.
- DESIGN CALCULATIONS: FOR DESIGN CALCULATIONS, REFER TO "SITE SERVICES AND STORMWATER MANAGEMENT DESIGN BRIEF" BY ERION ASSOCIATES, PROJECT EA 14-288.

APPROVED ☐ REFUSED ☐

THIS \_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_

DERRICK MOODIE, ACTING MANAGER  
DEVELOPMENT REVIEW, SUBURBAN SERVICES

**CAUTION:**  
THE EXACT LOCATION OF UNDERGROUND AND OVERHEAD UTILITIES IS APPROXIMATE ONLY AND MAY BE INCOMPLETE. THE CONTRACTOR IS RESPONSIBLE TO CONTACT ALL MUNICIPAL AUTHORITIES AND UTILITY COMPANIES TO DETERMINE EXACT LOCATION OF ALL SEWERS, WATERMANS, GAS, ELECTRICAL AND COMMUNICATIONS, CABLE TV AND OTHER UNDERGROUND INSTALLATIONS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR PROTECTION AGAINST DAMAGE OF ALL EXISTING INSTALLATIONS AND IS LIABLE FOR ALL COST SHOULD DAMAGE OCCUR.

7	19 APR/16	2nd SUBMISSION SITE PLAN
6	31 MAR/16	FOR CLIENT REVIEW
5	14 MAR/16	FOR CLIENT REVIEW
4	7 MAR/16	FOR CLIENT REVIEW
3	4 MAR/16	CLIENT REVIEW
2	29 OCT/15	SITE PLAN APPLICATION
1	19 OCT/15	FOR CLIENT REVIEW
0	11 SEPT/15	FOR CLIENT REVIEW
no.	date	revision

erion associates  
consulting civil engineers

1 beckett with st. east  
perth, on, k7h 1b2  
613-267-1693  
erion@sympatico.ca

owner  
301 PALLADIUM LTD.  
4015 CARLING AVENUE, SUITE 201  
KANATA, ON, K2K 2A3

project  
301 PALLADIUM DRIVE  
KANATA ONTARIO

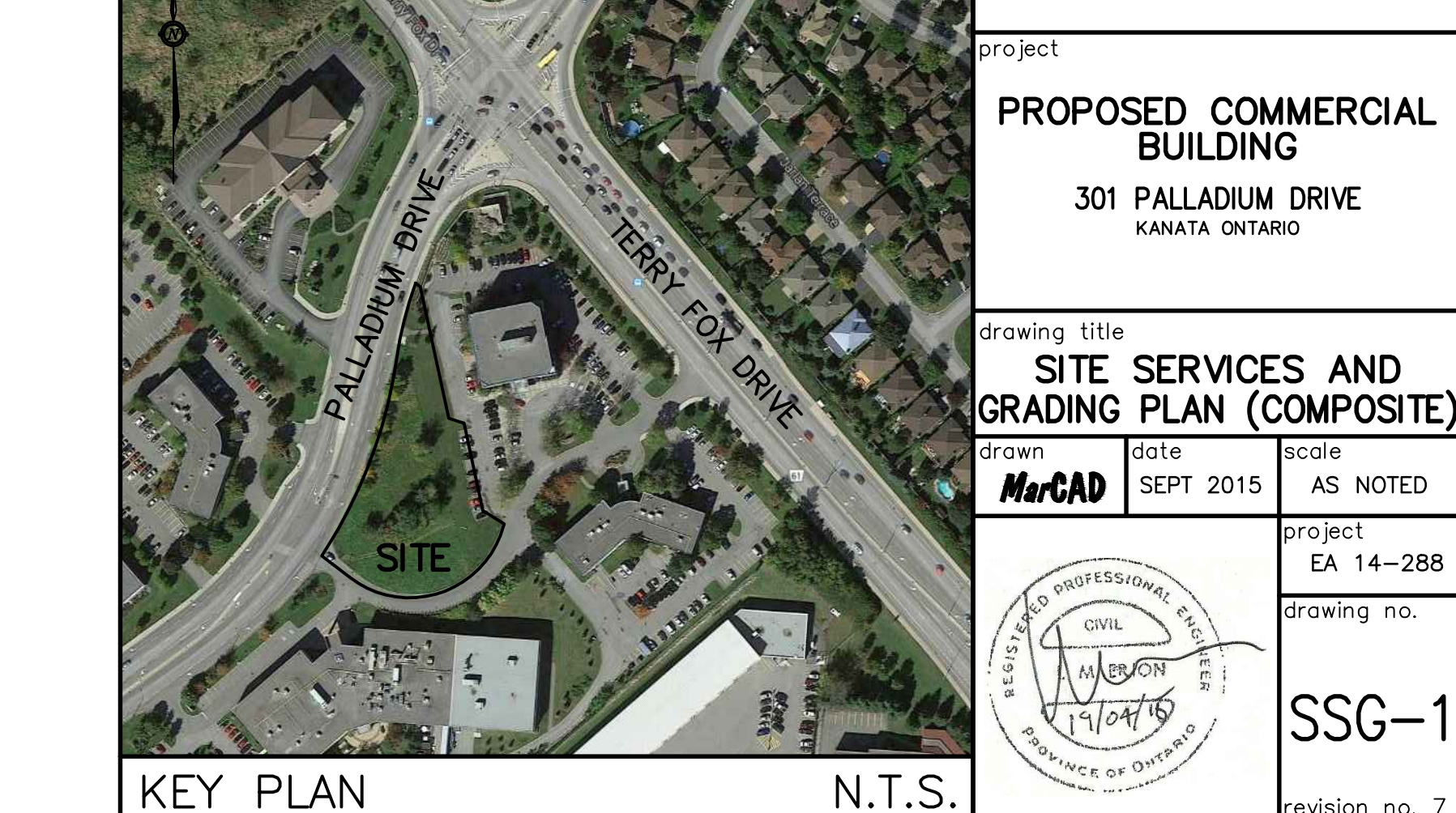
drawing title  
SITE SERVICES AND  
GRADING PLAN (COMPOSITE)

drawn	date	scale
MacCAD	SEPT 2015	AS NOTED

project  
EA 14-288

drawing no.  
SSG-1

revision no. 7



D07-12-15-0147