GENERAL

WATER, SANITARY AND STORM CAPACITIES TO BE VERIFIED BY THE APPLICANT, FLOWS AND CAPACITY CALCULATIONS TO BE SUBMITTED WITH NEXT SUBMISSION.

ANY PROPOSED LANDSCAPING WITH DEEP ROOTS (TREES) SHOULD BE PLANTED WITH A MINIMUM OFFSET OF 2M FROM ANY UNDERGROUND INTERNAL AND EXTERNAL INFRASTRUCTURE.

RESTORATION WORK WITHIN THE RIGHT OF WAY, IF REQUIRED, MUST BE COMPLETED BY THE PERFORMING CONTRACTOR AT THE OWNER'S EXPENSE.

ANY UTILITIES IN THE RIGHT OF WAY THAT MAY NEED TO BE RELOCATED WILL BE AT A COST TO THE DEVELOPER.

ALL INTERNAL CONNECTIONS AND SEPARATION OF SERVICES SHALL MEET "MECP" OR EXCEED REQUIREMENTS.

WHEN WORKING WITHIN THE ROAD ALLOWANCE A WORK PERMIT WILL BE REQUIRED. THE CONTRACTOR MUST CONTACT HELGA BOWMAN AT HELGA.BOWMAN@WATERLOO.CA OR 519 886 2310 X30270 FOR FURTHER INFORMATION ON THE WORK PERMIT.

THE WORK IN THE RIGHT OF WAY WILL BE SUBJECT TO INSPECTION BY THE CITY UTILITY SERVICES DIVISION. CONTRACTOR SHALL CONTACT THE INSPECTOR FOR ALL SERVICE INSTALLATIONS PRIOR TO BACKFILLING SERVICES. PLEASE CONTACT INSPECTOR, LUKE MARTIN AT 519–886–1550 X78247 OR LUKE.MARTIN@WATERLOO.CA.

THE CONTRACTOR MUST SUBMIT THROUGH THE OWNER, AND UPON THE INSTALLATION OF THE WORKS, AS–RECORDED DRAWINGS AND A CERTIFICATE INDICATING THE WORKS (GRADING AND SERVICING) ARE IN ACCORDANCE WITH ACCEPTED DRAWINGS, CONTRACT DOCUMENTS, GOOD ENGINEERING PRACTICE AND ARE SUBSTANTIALLY COMPLETED AS DEFINED IN THE CONSTRUCTION LIEN ACT.

PROPER SITE DRAINAGE SHOULD NOT CAUSE DAMAGE OR ADVERSE EFFECTS TO ANY ADJACENT PROPERTY INCLUDING ROADS AND PUBLIC LANDS. SITE MUST BE GRADED TO MATCH EXISTING ELEVATIONS AT THE PROPERTY LIMITS.

STORM SEWERS

ALL MANHOLES AND CATCHBASIN MANHOLES ARE TO BE 1200mmø PRECAST AS PER OPSD 701.01

MANHOLE AND CATCHBASIN, FRAMES, GRATES, CASTINGS AND LIDS TO BE QUALITY GREY IRON ASTM A48 CLASS 30B.

STORM MANHOLE LIDS TO BE PER OPSD 401.010.

ALL CATCHBASIN GRATES IN LANDSCAPED AREAS TO BE BIRDCAGE OPSD 400.120.

ALL CATCHASINS AND CATCHBASIN MANHOLES TO HAVE 600mm SUMP.

THE USE OF PROFILE PVC IS NOT PERMITTED WITHIN THE MUNICIPAL RIGHT OF WAY.

ALL STORM SEWER TO BE PVC SMOOTH WALL SDR 35

BEDDING COVER AND BACKFILL PER OPSD 802.01

INSULATION USED FOR FROST COVER – POLYSTYRENE FOAM BOARD SHALL BE USED FOR PIPE INSULATION AND MUST BE 25mm THICK FOR EVERY 300mm REDUCTION IN DEPTH OF COVER. IT MUST BE LAID IN 50mm THICKNESS WITH A WIDTH OF THE INSULATION THAT COMPLIES WITH SECTION 7.3.5.4 OF THE OBC.

2. SANITARY SEWERS

PVC SDR 35 AS PER OPSS 1841 FOR GRAVITY SEWERS, SAND OR GRANULAR 'A' BEDDING, GRANULAR 'B' BACKFILL

BEDDING, COVER AND BACKFILL OPSD 802.010, FERNCO COUPLERS TO BE USED

WATERMAIN

WATERMAIN SHALL BE CLASS 150 PCV C900 PIPE.

PIPE BEDDING FOR RIGID PIPE TO BE CLASS B AS PER OPSD 802.030. PIPE BEDDING FOR FLEXIBLE PIPE TO BE AS PER OPSD 802.010. BEDDING MATERIAL AND COVER MATERIAL TO BE GRANULAR A. TRENCH BACKFILL TO BE NATIVE MATERIAL REPLACED IN 300mm LIFTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.

WATERMAIN VALVES, 100mm AND LARGER, SHALL BE AS PER AWWA C509 – MUELLER A2360–23 OR APPROVED EQUIVALENT (OPEN LEFT) INCLUDING VALVE BOX AND 2.3 KG ANODE.

PVC WATERMAIN SHALL HAVE TWU SOLID COPPER, AWG10 TRACER WIRE STRAPPED TO TOP AS PER DGSSMS STANDARDS AT 5 METRE INTERVALS.

ANODES CONNECTED TO EACH METALLIC FITTING USING BRASS GROUNDING CLAMPS, AND SHALL NOT BE ATTACHED TO TRACER WIRES, AND TRACER WIRE SHALL NOT BE CONNECTED TO WATERMAIN FITTINGS.

ALL METALLIC WATERMAIN FITTING AND APPUTENANCES ARE TO BE WRAPPED WITH AN APPROVED PETROLEUM SYSTEM.

ALL WATERMAINS AND SERVICES TO HAVE MINIMUM 2m COVER.

CITY OF WATERLOO TO SUPPLY WATER METER. CONTRACTOR TO INSTALL METER, ALL VALVES, PIPING AND REMOTE METER READOUT AT LOCATION ON BUILDING EXTERIOR ACCEPTABLE TO THE CITY.

BACKFLOW PREVENTION DEVICES ARE REQUIRED AT THE WATER METER AND OTHER LOCATION AS NECESSARY IN ACCORDANCE WITH CSA AND OBC REGULATIONS. DEVICES TO BE TESTED ANNUALLY BY A LICENSED PLUMBER WITH A COPY OF THE CERTIFICATION REPORT SUBMITTED TO THE REGION.

SERVICE PROVIDING FIRE FLOWS MUST BE PRESSURE TESTED TO 200psi AS PER OBC PLUMBING CODE.

WATER SERVICE, TESTING AND COMMISSIONING SHALL COMPLY WITH DGSSMS SECTION D.2.8. "COMMISSIONING".

THE DESIGN, CONSTRUCTION, INSTALLATION AND TESTING OF WATERMAIN AND SERVICE PIPING SHALL BE IN CONFORMANCE WITH OPSS 441.

THE TRENCH SHALL BE BACKFILLED BETWEEN JOINTS BEFORE TESTING TO PREVENT MOVEMENT OF PIPE.

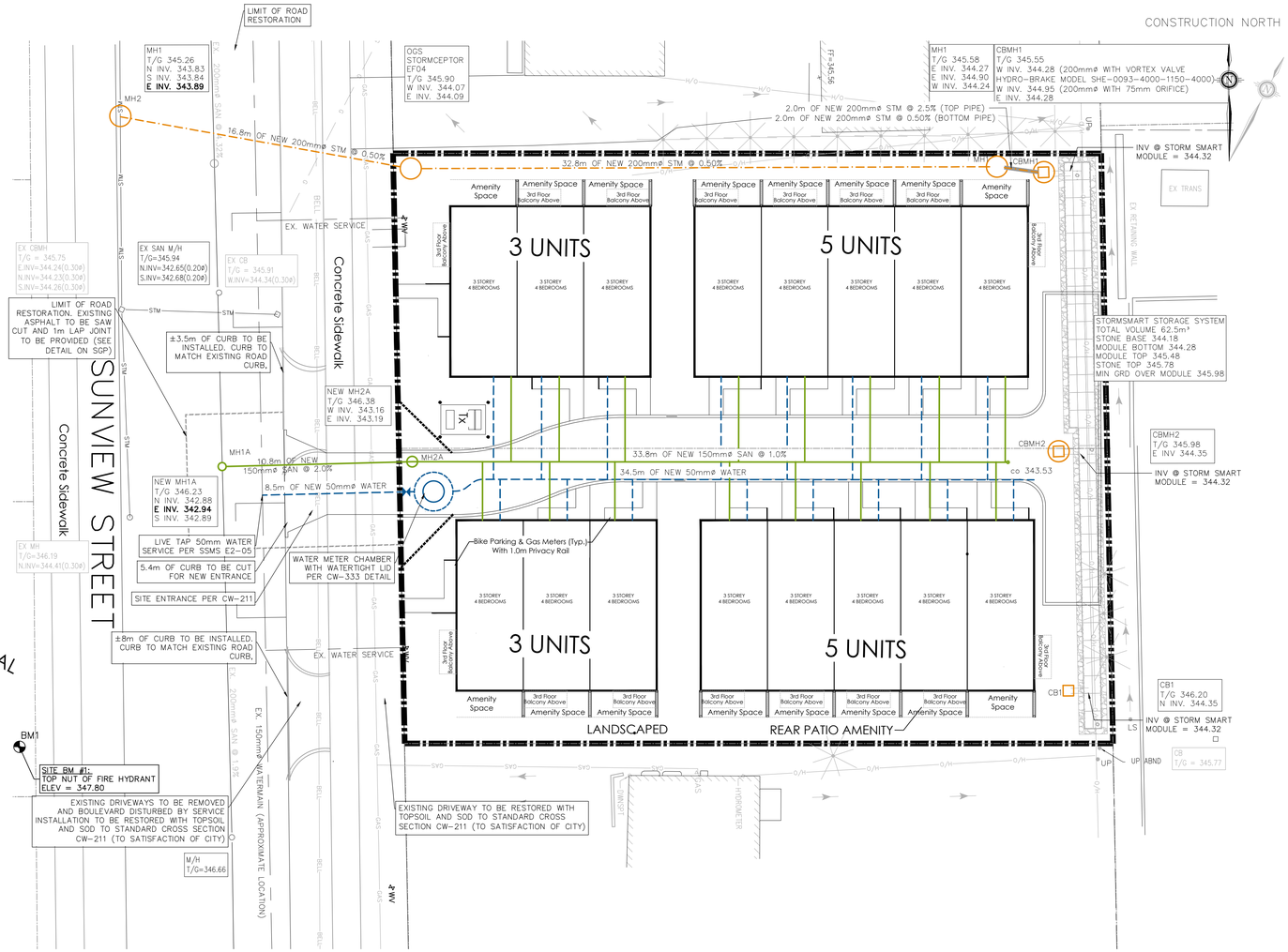
THE AMOUNT OF LEAKAGE SHALL NOT EXEED THE ALLOWABLE LEAKAGE SPECIFIED IN OPSS 441.

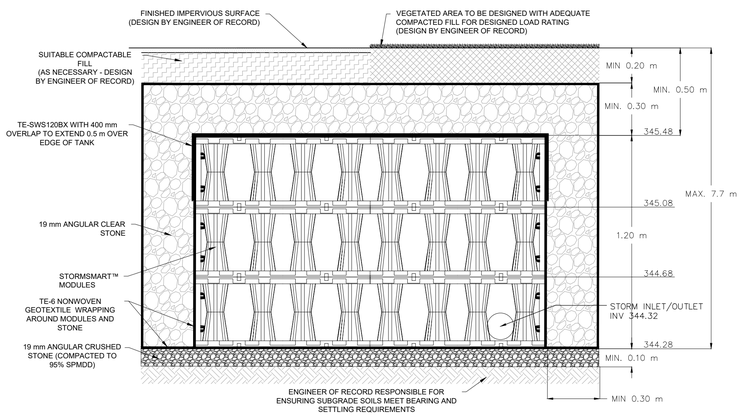
ALL CONTROL VALVES SHALL BE FULLY CLOSED AND OPENED UNDER SYSTEM WATER PRESSURE TO ENSURE PROPER OPERATION.

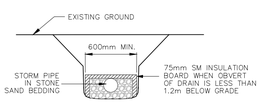
PRESSURE LEAKAGE TEST SHALL BE PERFOMED BY THE CONTRACTOR IN THE PRESENCE OF THE CONSULTING ENGINEER.

CERTIFICATION SHALL BE COMPLETED BY THE CONSULTANT INDICATING THE TESTS WERE COMPLETED AND PASSED, AND SUBMITTED TO THE ENGINEERING SERVICES INSPECTOR.

THE COMMISSIONING PLAN MUST BE SUBMITTED TO THE PWS WATER SERVICES FOR APPROVAL PRIOR TO CONSTRUCTION.

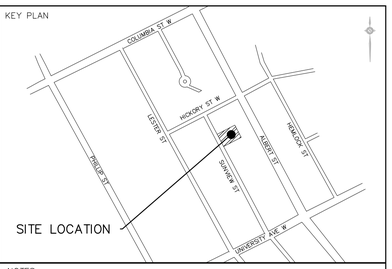






STORM SEWER INSULATION DETAIL
N.T.S.

KEY PLAN



NOTES:

- EXISTING SANITARY
- EXISTING STORM
- EXISTING WATERMAIN
- EXISTING GAS
- PROPOSED SANITARY SERVICE
- PROPOSED STORM SEWER
- PROPOSED STORM TO BE INSULATED
- PROPOSED WATER SERVICE

No.	REVISIONS	BY	DATE
	CONSTRUCTION		
	TENDER		
	ISSUE FOR APPROVALS		
	ISSUE BLOCK		

SUNVIEW DEVELOPMENT

272–274 SUNVIEW STREET

REGION OF WATERLOO CITY OF WATERLOO

SERVICING PLAN

K. SMART ASSOCIATES LIMITED
CONSULTING ENGINEERS AND PLANNERS
KITCHENER SUDBURY

LICENSED PROFESSIONAL ENGINEER
SANDRA SWANTON
100119707
OCT 16/26
PROVINCE OF ONTARIO

CERTIFIED ENGINEERING TECHNOLOGIST
OACETT
ONTARIO
JOHANNE GUIMARAES
№ 871063

DESIGNED BY:	J.G.
CHECKED BY:	S.S.
DRAWN BY:	J.G.
CHECKED BY:	S.S.
FILE No.	26–188

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SCALE: 1:150

REVISION No.

DATE: OCT 2026

SHEET SSP

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