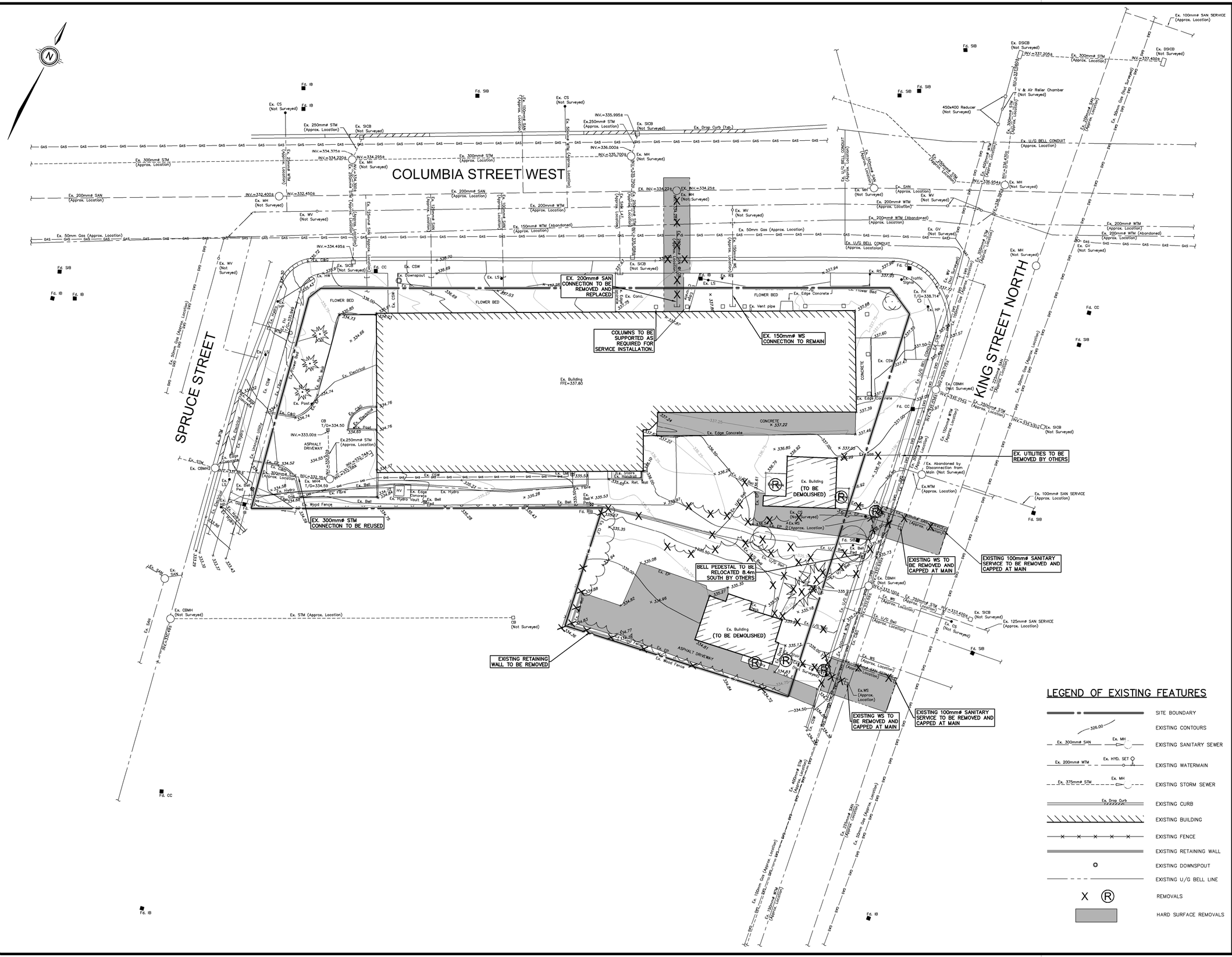
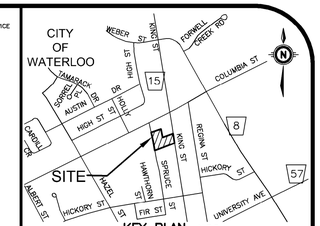


LEGEND OF EXISTING FEATURES

- SITE BOUNDARY
- EXISTING CONTOURS (326.00)
- Ex. 300mmø SAN / Ex. MH — EXISTING SANITARY SEWER
- Ex. 200mmø WTM / Ex. HYD. SET — EXISTING WATERMAIN
- Ex. 375mmø STM / Ex. MH — EXISTING STORM SEWER
- Ex. Drop Curb — EXISTING CURB
- EXISTING BUILDING
- EXISTING FENCE
- EXISTING RETAINING WALL
- EXISTING DOWNSPOUT
- EXISTING U/G BELL LINE
- X ® — REMOVALS
- HARD SURFACE REMOVALS



KEY PLAN N.T.S.

GEODETIC BM ELEV. = 338.714m

TOP BOLT OF FIRE HYDRANT LOCATED NEAR SOUTHWESTERLY CORNER OF THE INTERSECTION OF KING STREET NORTH AND COLUMBIA STREET WEST.

SITE BENCHMARK ELEV. = m

NOTE TO CONTRACTOR :

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No.	REVISION	BY	YYYY–MM–DD
1.	ISSUED FOR FUNCTIONAL SUBMISSION	AXT	2022–12–08
2.	Revised per City's Comment	AXT	2023–12–12
3.			
4.			
5.			
6.			
7.			
8.			

MTE
Engineers, Scientists, Surveyors
519-743-6500

LICENSED PROFESSIONAL ENGINEER — C. A. DAHMER — 100227364 — 2023-12-12 — PROVINCE OF ONTARIO

CLIENT

STUDIO LIMINA INC.

180 SHAW ST. SUITE 315 TORONTO

PROJECT

7–STOREY EXTENSION

1 COLUMBIA STREET WEST WATERLOO

DRAWING

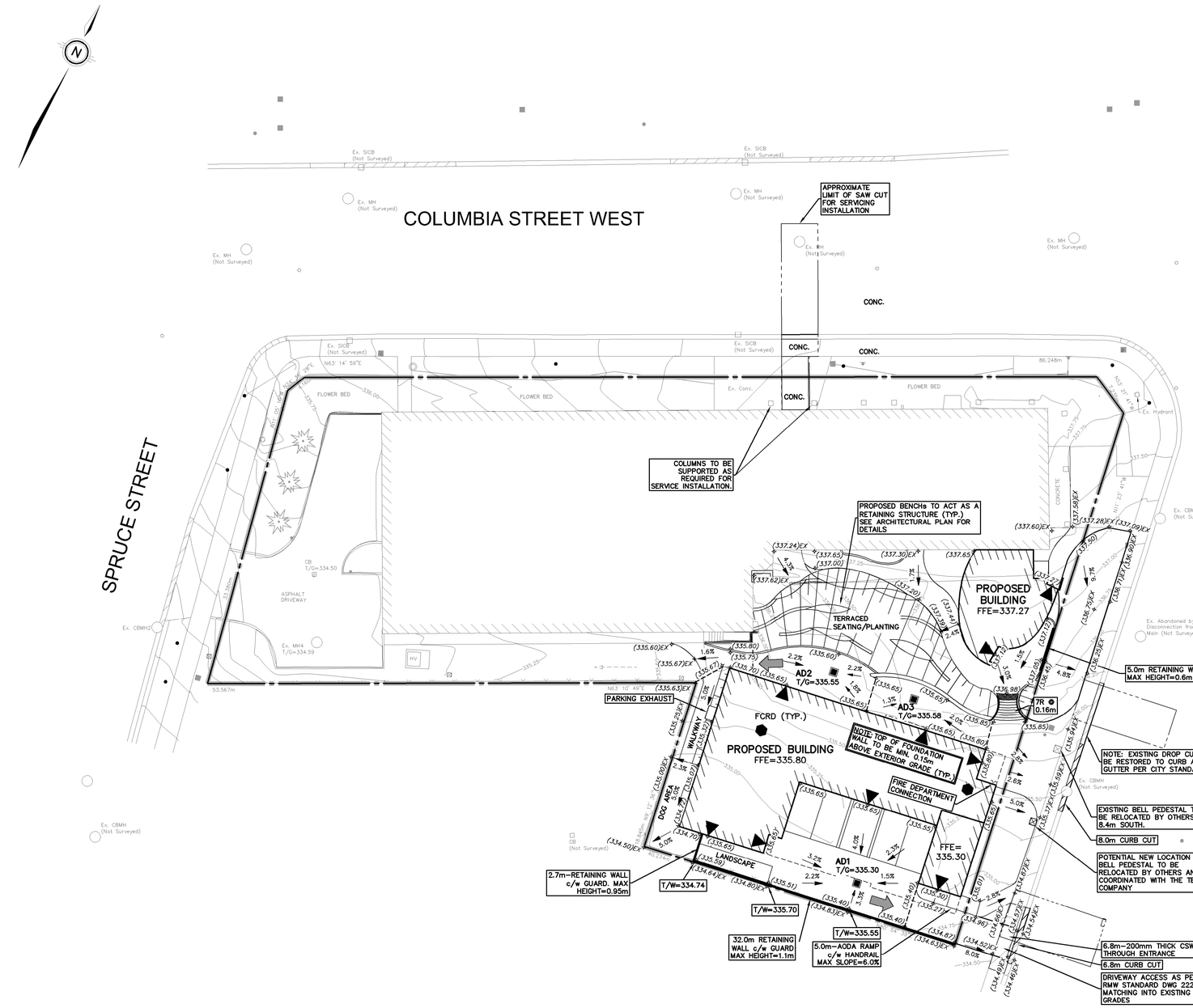
EXISTING CONDITIONS AND REMOVALS PLAN

Project Manager	A.TCHOUMATCHEV	Project No.	40459-101
Design By	YXH	Checked By	CAD
Drawn By	BDW	Checked By	CAD
Surveyed By	MTE	Drawing No.	C1.1
Date	Aug.30/22		
Scale	1:250	Sheet 1 of 4	

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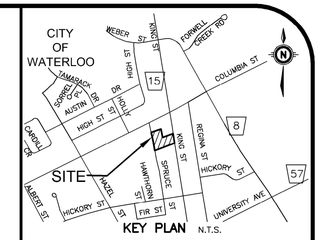


LEGEND OF EXISTING FEATURES

- SITE BOUNDARY
- EXISTING CONTOURS (326.00)
- EXISTING CURB (Ex. Drop Curb)
- EXISTING BUILDING
- EXISTING FENCE
- EXISTING RETAINING WALL
- EXISTING DOWNSPOUT
- EXISTING U/G BELL LINE
- EXISTING DIRECTION OF DRAINAGE

LEGEND OF PROPOSED FEATURES

- PROPOSED BUILDING
- MAN DOOR
- CONCRETE CURB (DROP CURB)
- RETAINING WALL
- DRAINAGE SPLIT (RIDGE)
- PROPOSED SPOT ELEVATIONS (326.00) T/G=326.00 FFE=326.00
  EX =MAINTAIN EXISTING
  T/G =TOP OF CASTING/GRATE
  INV =INVERT ELEVATION
  FFE =FINISHED FLOOR ELEVATION
- DIRECTION OF DRAINAGE/SWALE (1.0% 1.0%)
- EMBANKMENT (SLOPE AS NOTED) (TOP) 3:1 (BOTTOM)
- SAW CUT
- OVERLAND FLOW ROUTE (MAJOR STORM)
- FCRD — FLOW CONTROL ROOF DRAIN ZURN MODEL Z105* SINGLE NOTCH (8.95 lpm/cm OF HEAD) *OR APPROVED EQUAL



KEY PLAN N.T.S.

GEODETIC BM ELEV. = 338.714m
TOP BOLT OF FIRE HYDRANT LOCATED NEAR SOUTHWESTERLY CORNER OF THE INTERSECTION OF KING STREET NORTH AND COLUMBIA STREET WEST.

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2.	Revised per City's Comment	AXT	2023-12-12
1.	ISSUED FOR FUNCTIONAL SUBMISSION	AXT	2022-12-08

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519-743-6500

LICENSED PROFESSIONAL ENGINEER — C. A. DAHMER — 100227364 — 2023-12-12 — PROVINCE OF ONTARIO

CLIENT

STUDIO LIMINA INC.

180 SHAW ST. SUITE 315 TORONTO

PROJECT

7-STOREY EXTENSION

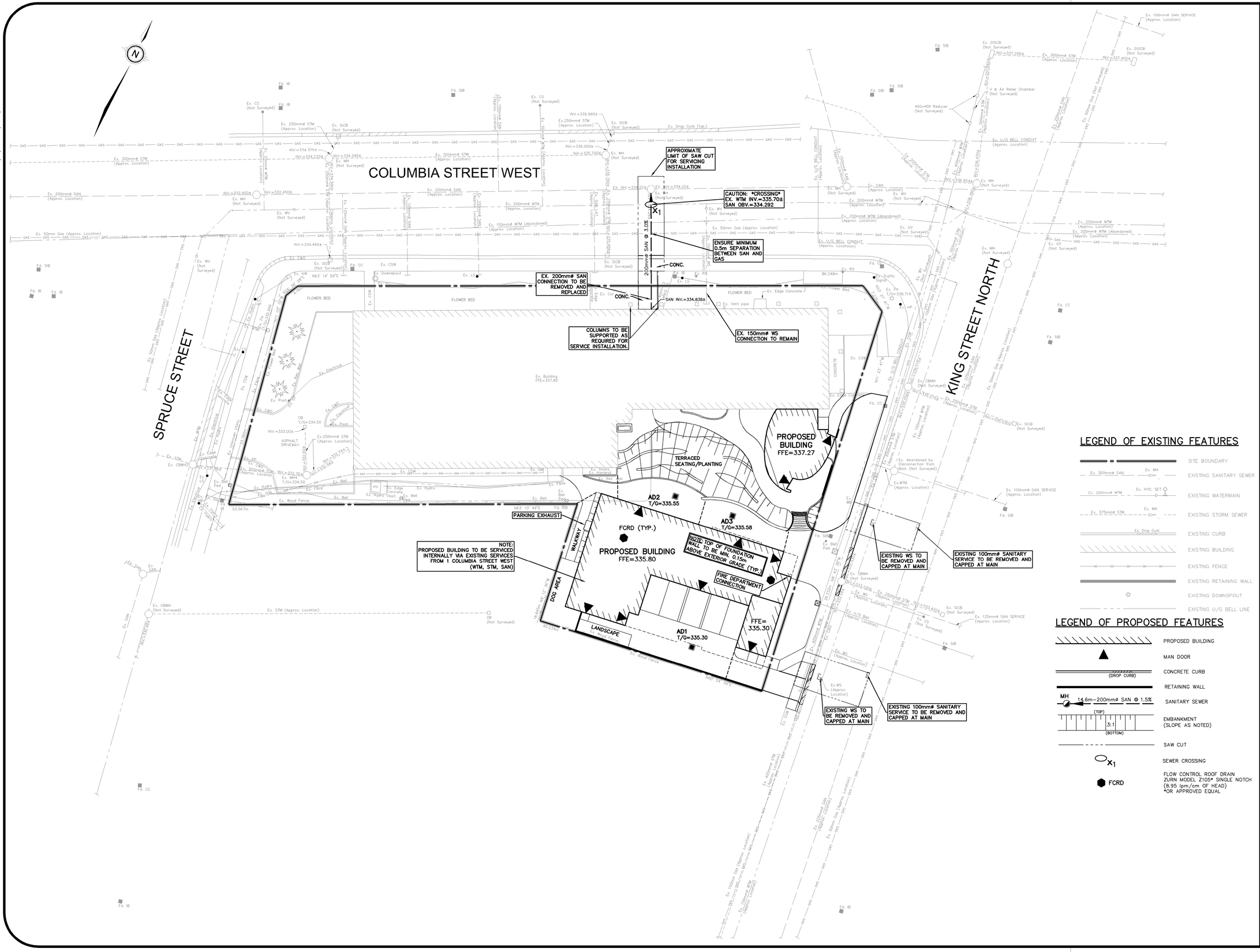
1 COLUMBIA STREET WEST WATERLOO

DRAWING

FUNCTIONAL GRADING PLAN

Project Manager	A.TCHOUMATCHEV	Project No.	40459-101
Design By	YXH	Checked By	CAD
Drawn By	BDW	Checked By	CAD
Surveyed By	MTE	Drawing No.	C2.1
Date	Sep.06/22		
Scale	1:250	Sheet 2 of 4	

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MTE FILE PATH:
December 12, 2023 - 4:07:04 PM - Plotted By: Julie Nguyen



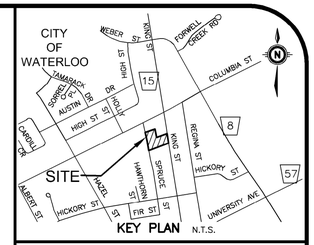
LEGEND OF EXISTING FEATURES

- SITE BOUNDARY
- EXISTING SANITARY SEWER
- EXISTING WATERMAIN
- EXISTING STORM SEWER
- EXISTING CURB
- EXISTING BUILDING
- EXISTING FENCE
- EXISTING RETAINING WALL
- EXISTING DOWNSPOUT
- EXISTING U/G BELL LINE

LEGEND OF PROPOSED FEATURES

- PROPOSED BUILDING
- MAIN DOOR
- CONCRETE CURB (DROP CURB)
- RETAINING WALL
- SANITARY SEWER (MH, 14.6m–200mmø SAN @ 1.5%)
- EMBANKMENT (SLOPE AS NOTED) (TOP, 3:1, BOTTOM)
- SAW CUT
- SEWER CROSSING (X_1)
- FCRD

FLOW CONTROL ROOF DRAIN
ZURN MODEL Z105* SINGLE NOTCH
(8.95 lpm/cm OF HEAD)
*OR APPROVED EQUAL



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LICENSED PROFESSIONAL ENGINEER
C. A. DAHMER
100227364
DATE 2023-12-12
PROVINCE OF ONTARIO

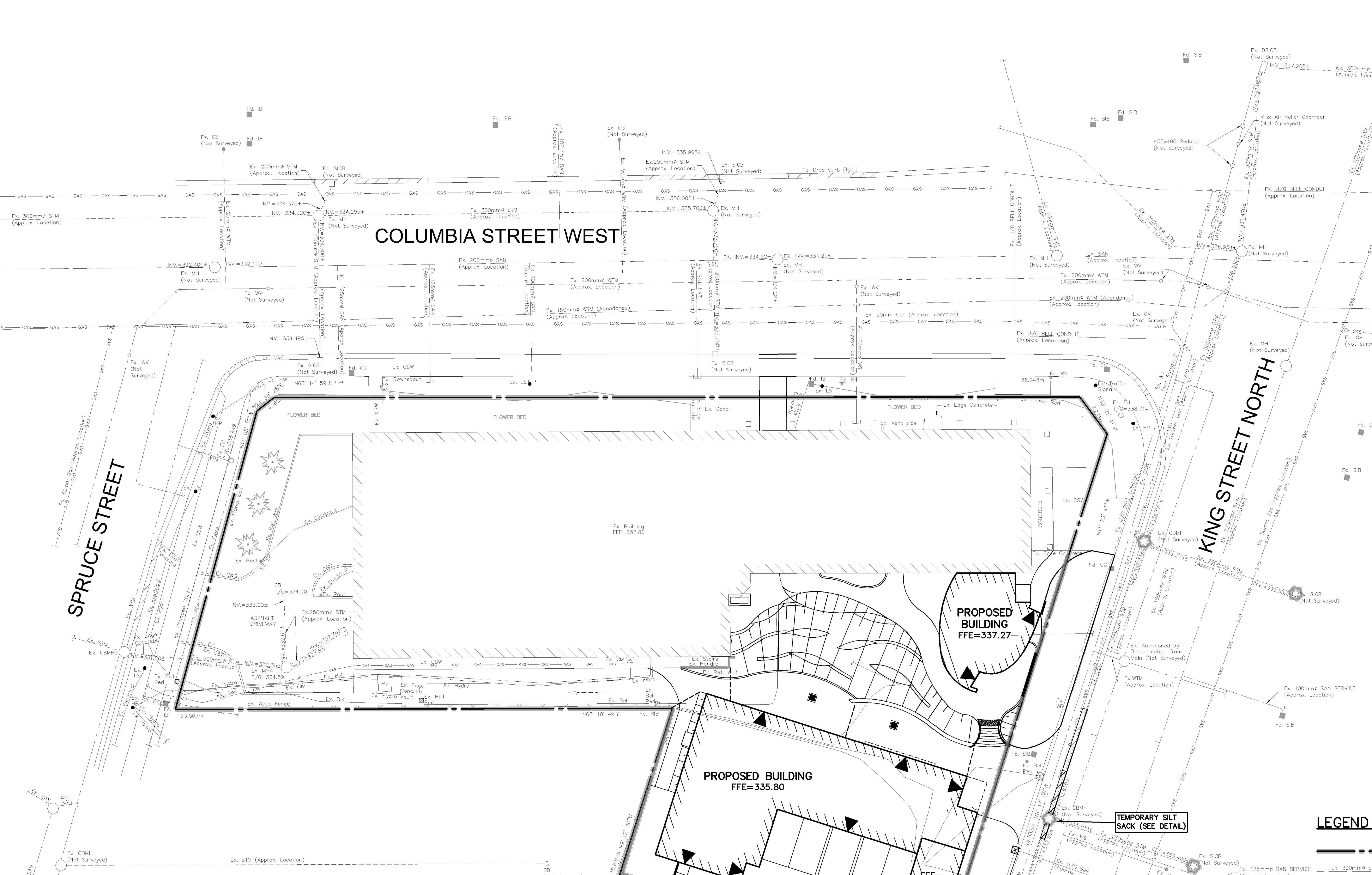
CLIENT
STUDIO LIMINA INC.
180 SHAW ST. SUITE 315 TORONTO

PROJECT
7–STOREY EXTENSION
1 COLUMBIA STREET WEST WATERLOO

DRAWING
FUNCTIONAL SERVICING PLAN

Project Manager: A.TCHOUMATCHEV	Project No.: 40459-101
Design By: YXH	Checked By: CAD
Drawn By: BDW	Checked By: CAD
Surveyed By: MTE	Drawing No.: C2.2
Date: Sep.06/22	
Scale: 1:250	Sheet 3 of 4

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December 12, 2023 - 4:12:14 PM - Plotted By: Jolie Nguyen



1. GENERAL NOTES

1.1. THE RIGHT-OF-WAY (INCLUDING THE BOULEVARD) IS NOT TO BE USED FOR ANY CONSTRUCTION PURPOSE UNLESS A WORK PERMIT HAS BEEN OBTAINED AS PER CITY BY-LAW 2009-111 (WORK PERMITS).

1.2. ANY WORK COMPLETED ON THE SUBJECT PROPERTY PRIOR TO ISSUANCE OF A BUILDING PERMIT IS IN VIOLATION OF THE CITY'S SITE ALTERATION BY-LAW 2010-066.

1.3. CONSTRUCTION FENCING IS REQUIRED ALONG THE FRONTAGE OF THE PROPERTY DURING CONSTRUCTION.

1.4. ACCORDING TO THE CITY OF WATERLOO SITE ALTERATION BY-LAW 32010-066; NO FILLING, PRE-GRADING OR TREE REMOVAL SHALL OCCUR, IN ADVANCE OF THE FINAL SITE PLAN ENGINEERING ACCEPTANCE, WITHOUT PERMIT. SHOULD THE DEVELOPER OR CONTRACTOR WISH TO PREPARE THE SITE FOR CONSTRUCTION PRIOR TO ENGINEERING ACCEPTANCE, AN APPLICATION FOR A SITE ALTERATION PERMIT MUST BE SUBMITTED TO THE ENGINEERING AND CONSTRUCTION DIVISION FOR REVIEW AND APPROVAL.

1.5. ALL HEALTH AND SAFETY RELATED SIGNAGE MUST BE POSTED AT THE SITE AS REQUIRED BY APPLICABLE LAW AND BEST MANAGEMENT PRACTICES.

1.6. CONTRACTOR TO ENSURE SIDEWALK AND BIKE PATHS ARE MAINTAINED AND SAFE PEDESTRIAN ACCESS IS PROVIDED THROUGHOUT DURATION OF CONSTRUCTION.

1.7. CONTRACTOR TO ENSURE DAILY SWEEPING AND DUST CONTROL OF CITY OF WATERLOO RIGHT-OF-WAY DURING ALL CONSTRUCTION ACTIVITIES.

1.8. CONTRACTOR TO PROVIDE CONSTRUCTION STAGING PLAN TO THE PRIME CONSULTANT AND THE CITY FOR ACCEPTANCE BY THE CITY PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. SIGNIFICANT DEVIATIONS FROM THIS PLAN WILL NOT BE ACCEPTED WITHOUT PERMISSION FROM THE CITY. ANY CONSTRUCTION HOARDING OR FENCING AROUND THE SITE MUST COMPLY WITH OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS, INCLUDING O. REG. 213/91 S. 65, AS AMENDED.

1.9. FOR EMERGENCY RESPONSE, CONTRACTOR MUST MAINTAIN CONSTRUCTION ACCESS FREE AND CLEAR OF DEBRIS, MATERIALS, VEHICLES AND EQUIPMENT.

1.10. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, THE OWNER OF THE SITE SHALL INSTALL A PROJECT SIGN FOR THE DEVELOPMENT THAT CLEARLY INDICATED THE FOLLOWING MINIMUM INFORMATION:
- THE NAME OF THE REGISTERED OWNER OR DEVELOPER;
- THE NAME OF THE CONSULTING ENGINEER; AND
- THE NAME OF THE GENERAL CONTRACTOR.

THE TELEPHONE NUMBER FOR EACH OF THE ABOVE SHALL ALSO BE CLEARLY MARKED ON THE SIGN. AT LEAST ONE OF THE TELEPHONE NUMBERS WILL BE DESIGNATED AS A 24 HOUR EMERGENCY CONTACT NUMBER AND WILL BE PRECEDED BY THE STATEMENT "IN CASE OF EMERGENCY CONTACT: (WITH TELEPHONE NUMBER)". THIS SIGH SHOULD BE INSTALLED SUCH THAT IT IS CLEARLY VISIBLE TO THE PUBLIC AND WILL BE MAINTAINED IN GOOD ORDER UNTIL THE PROJECT IS COMPLETED.

1.11. AN APPLICATION FOR A WORK PERMIT SHOULD BE COMPLETED AND ISSUED TO THE CITY OF WATERLOO PUBLIC WORKS SERVICES PRIOR TO THE ISSUANCE OF A BUILDING PERMIT AS PER CITY BY-LAW 2009-111

2. EROSION AND SEDIMENT CONTROL

2.1. CONTRACTOR TO INSTALL EROSION CONTROL MEASURES AS SHOWN PRIOR TO CONSTRUCTION AND MAINTAIN IN GOOD CONDITION UNTIL CONSTRUCTION IS COMPLETED AND VEGETATIVE COVER IS ESTABLISHED. EROSION CONTROL WORKS TO BE INSPECTED BY CITY OF WATERLOO PRIOR TO RELEASE OF BUILDING PERMIT.

2.2. ALL SILT FENCING TO BE INSTALLED PRIOR TO ANY AREA GRADING, EXCAVATING OR DEMOLITION COMMENCING.

2.5. EROSION CONTROL FENCING TO BE INSTALLED AROUND BASE OF ALL STOCKPILES.

2.6. EROSION PROTECTION TO BE PROVIDED AROUND ALL STORM AND SANITARY MHs AND CBs. EXISTING CBs ARE TO BE EQUIPPED WITH SILTSACKS DURING CONSTRUCTION.

2.7. CONSTRUCTION ACCESS (MUD MAT) TO BE PROVIDED ON-SITE AT ALL LOCATIONS WHERE CONSTRUCTION VEHICLES EXIT THE SITE. CONSTRUCTION ACCESS (MUD MAT) SHALL BE A MINIMUM OF 3.0m WIDE, 10.0m LONG (LENGTH MAY VARY DEPENDING ON SITE LAYOUT) AND SHALL CONSIST OF 200mm CLEAR STONE MATERIAL OR APPROVED EQUIVALENT. PROPOSED EROSION FENCING TO TIE INTO MUD MAT. CONTRACTOR TO ENSURE ALL VEHICLES LEAVE THE SITE VIA THE MUD MAT AND THAT THE MAT IS MAINTAINED IN A MANNER TO MAXIMIZE EFFECTIVENESS AT ALL TIMES.

2.8. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED AS SITE DEVELOPMENT PROGRESSES. CONTRACTOR TO PROVIDE ALL ADDITIONAL EROSION CONTROL STRUCTURES.

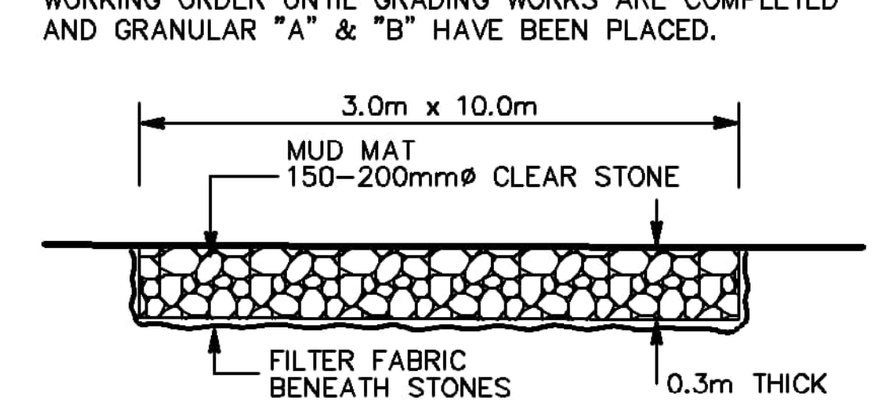
2.9. EROSION CONTROL STRUCTURES TO REMAIN IN PLACE UNTIL ALL DISTURBED GROUND SURFACES HAVE BEEN RESTABILIZED.

2.10. NO ALTERNATE METHODS OF EROSION PROTECTION SHALL BE PERMITTED UNLESS APPROVED BY THE ENGINEER AND THE CITY OF WATERLOO DEPARTMENT OF PUBLIC WORKS.

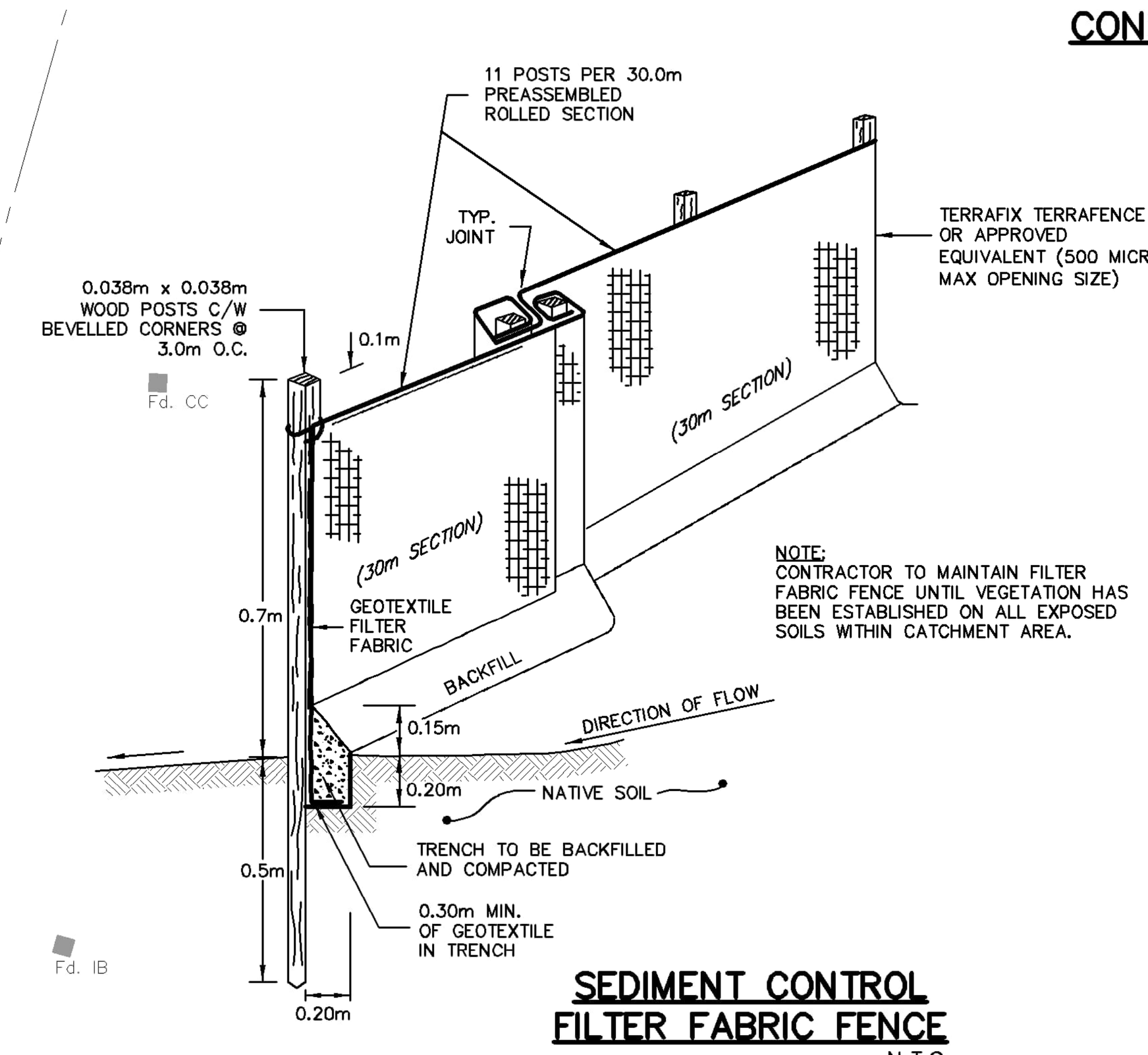
2.11. CONTRACTOR TO CLEAN ROADWAY AND SIDEWALKS OF SEDIMENTS RESULTING FROM CONSTRUCTION TRAFFIC FROM THE SITE EACH DAY.

2.12. CONTRACTOR MUST REMOVE EROSION AND SEDIMENTATION FENCING PRIOR TO COMPLETION OF PROJECT. CONTRACTOR TO HAVE EROSION AND SEDIMENTATION FENCE INSPECTED WHEN VEGETATION HAS ESTABLISHED, BUT PRIOR TO FENCE BECOMING OVERGROWN. ENGINEER'S REPRESENTATIVE TO DETERMINE IF VEGETATION HAS REACHED THE CRITICAL POINT AND WILL THEN INSTRUCT CONTRACTOR TO REMOVE FENCE.

DESIGNATED ACCESS FOR ALL CONSTRUCTION TRAFFIC.
INSTALL 'MUD MAT', AS PER DETAIL BELOW, PRIOR TO ANY OTHER CONSTRUCTION. MAT TO BE MAINTAINED IN GOOD WORKING ORDER UNTIL GRADING WORKS ARE COMPLETED AND GRANULAR "A" & "B" HAVE BEEN PLACED.

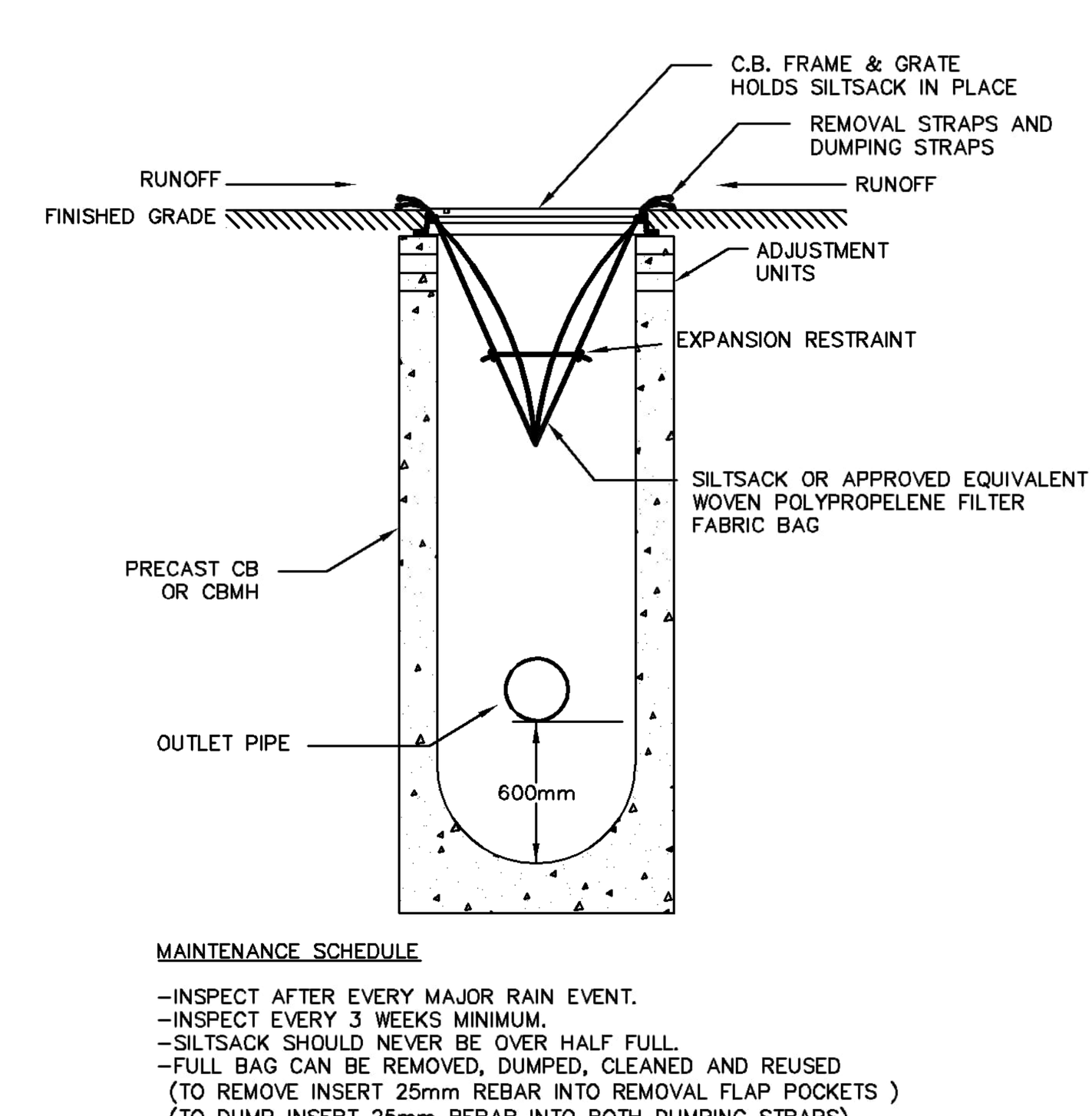


CONSTRUCTION ACCESS DETAIL
N.T.S.



NOTE:
CONTRACTOR TO MAINTAIN FILTER FABRIC FENCE UNTIL VEGETATION HAS BEEN ESTABLISHED ON ALL EXPOSED SOILS WITHIN CATCHMENT AREA.

SEDIMENT CONTROL FILTER FABRIC FENCE
N.T.S.



MAINTENANCE SCHEDULE

- INSPECT AFTER EVERY MAJOR RAIN EVENT.
- INSPECT EVERY 3 WEEKS MINIMUM.
- SILTSACK SHOULD NEVER BE OVER HALF FULL.
- FULL BAG CAN BE REMOVED, DUMPED, CLEANED AND REUSED (TO REMOVE INSERT 25mm REBAR INTO REMOVAL FLAP POCKETS) (TO DUMP INSERT 25mm REBAR INTO BOTH DUMPING STRAPS)

TEMPORARY SILTSACK SILTATION CONTROL IN CB
N.T.S.

NOTE: CONTRACTOR IS RESPONSIBLE TO REMOVE ALL SEDIMENT TRACKED OFF SITE ONTO THE ROAD DAILY AND TO CONTROL EXCESS OF DUST DURING WINDY WEATHER PERIODS. CONTRACTOR IS RESPONSIBLE TO RESTORE ALL AFFECTED PROPERTY TO ORIGINAL CONDITION AT OWNERS EXPENSE.

NOTE: ALL WORK AND EQUIPMENT TO BE MAINTAINED WITHIN THE SITE AND THE CITY RIGHT-OF-WAY IS NOT TO BE OCCUPIED.

NOTE: THE PROPOSED DEVELOPMENT IS SUBJECT TO ALL INSPECTION REQUIREMENTS OF THE CITY OF WATERLOO. CONTACT CITY OF WATERLOO INSPECTOR LUKE MARTIN AT 519-465-2451

NOTE: A TRAFFIC PLAN IS TO BE CREATED BY THE CONTRACTOR AND APPROVED BY CITY OF WATERLOO AND A COPY IS TO BE KEPT ON SITE AT ALL TIMES.

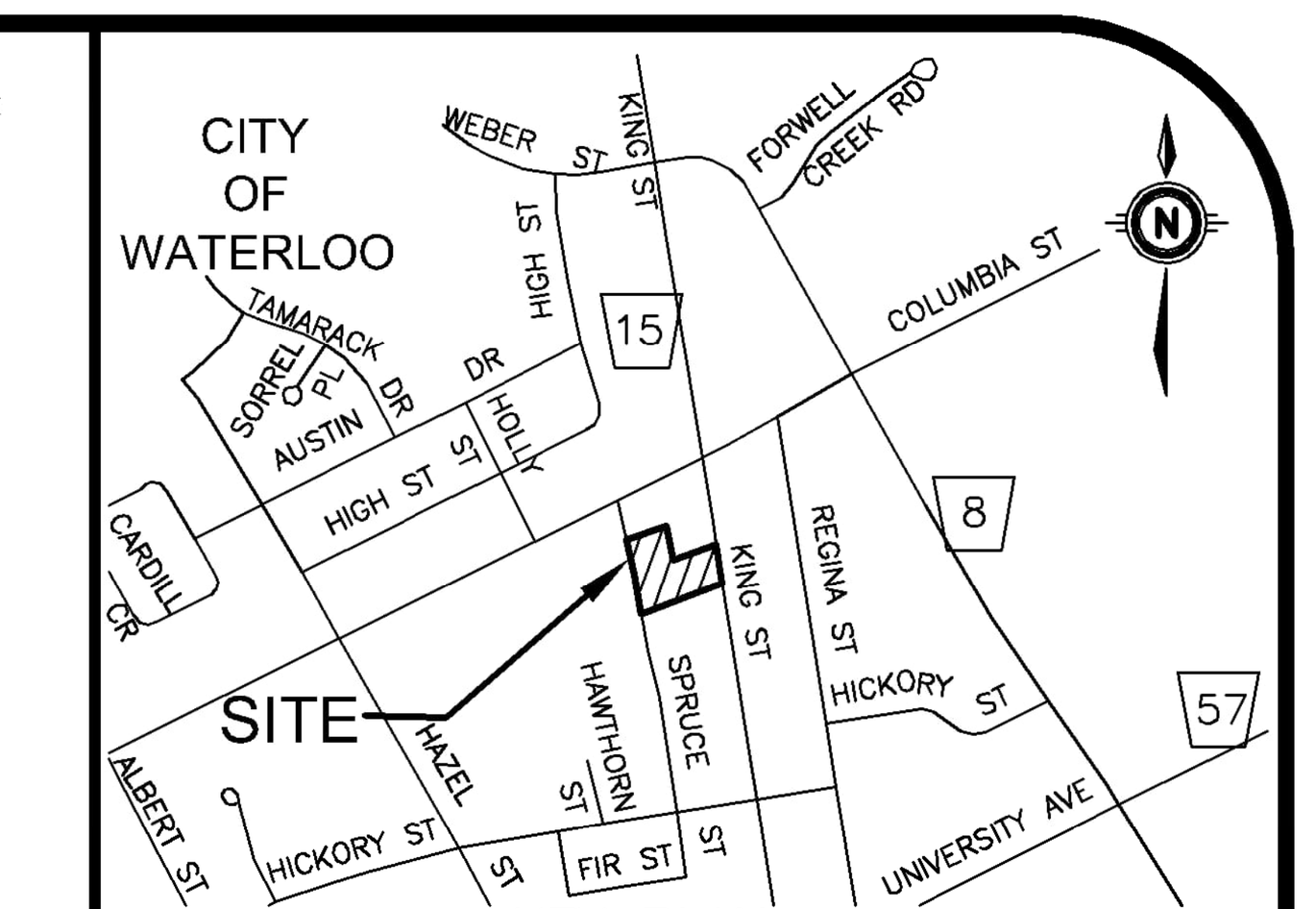
NOTE: ALL E & S MEASURES ARE REQUIRED TO BE IN PLACE, CERTIFIED BY THE DESIGN ENGINEER AND INSPECTED AND APPROVED BY CITY STAFF PRIOR TO BUILDING PERMIT.

LEGEND OF EXISTING FEATURES

- SITE BOUNDARY
- EXISTING SANITARY SEWER (Ex. 300mmø SAN, Ex. MH)
- EXISTING WATERMAIN (Ex. 200mmø WTM, Ex. HYD. SET)
- EXISTING STORM SEWER (Ex. 375mmø STM, Ex. MH)
- EXISTING CURB (Ex. Drop Curb)
- EXISTING BUILDING
- EXISTING FENCE
- EXISTING RETAINING WALL
- EXISTING DOWNSPOUT
- EXISTING U/G BELL LINE

LEGEND OF PROPOSED FEATURES

- PROPOSED BUILDING
- MAN DOOR
- CONCRETE CURB (DROP CURB)
- RETAINING WALL
- EMBANKMENT (SLOPE AS NOTED) — (TOP) 3:1 (BOTTOM)
- SEDIMENT CONTROL FENCE (SEE DETAIL)
- TEMPORARY SILT SACK (SEE DETAIL)
- CONSTRUCTION ACCESS (SEE DETAIL)



KEY PLAN N.T.S.

GEODETIC BM ELEV. =338.714m
TOP BOLT OF FIRE HYDRANT LOCATED NEAR SOUTHWESTERLY CORNER OF THE INTERSECTION OF KING STREET NORTH AND COLUMBIA STREET WEST.

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LICENSED PROFESSIONAL ENGINEER — C. A. DAHMER — 100227364 — 2023-12-12 — PROVINCE OF ONTARIO

CLIENT
STUDIO LIMINA INC.
180 SHAW ST. SUITE 315 TORONTO

PROJECT
7-STOREY EXTENSION
1 COLUMBIA STREET WEST WATERLOO

DRAWING
EROSION SEDIMENT CONTROL AND CONCEPTUAL WORKSPACE MANAGEMENT PLAN

Project Manager: A.TCHOUMATCHEV	Project No.: 40459-101
Design By: YXH	Checked By: CAD
Drawn By: BDW	Checked By: CAD
Surveyed By: MTE	Drawing No.: ES1.1
Date: Nov.03/22	
Scale: 1:250	Sheet 4 of 4

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