# NAVAN STACKED TOWN HOMES 6001 / 6005 RENAUD ROAD, OTTAWA, ON.

# **REVISION 04**



KEY PLAN (N.T.S.)

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# GENERAL NOTES

- . ALL WORKS MATERIALS SHALL CONFIRM TO THE LAST REVISION OF THE STANDARDS AND SPECIFICATIONS FOR THE CITY OF OTTAWA, ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) AND SPECIFICATIONS (OPSS), WHERE APPLICABLE. LOCAL UTILITY STANDARDS AND MINISTRY OF TRANSPORTATION STANDARDS WILL APPLY WHERE REQUIRED.
- 2. THE CONTRACTORS SHALL CONFIRM THE LOCATION OF ALL EXISTING UTILITIES WITHIN THE SITE AND ADJACENT WORK AREAS. THE CONTRACTORS SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF ANY SERVICES OR UTILITIES DISTURBED DURING CONSTRUCTION, TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION.
- 3. ALL DIMENSIONS SHALL BE CHECKED AND VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION, ANY DISCREPANCIES SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER. LOST TIME DUE TO FAILURE OF THE CONTRACTORS TO CONFIRM UTILITY LOCATIONS AND NOTIFY ENGINEER OF POSSIBLE CONFLICTS PRIOR TO CONSTRUCTION WILL BE AT CONTRACTORS EXPENSE. 4. ANY AREA BEYOND THE LIMIT OF THE SITE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO ORIGINAL CONDITION OR
- BETTER TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION AT THE CONTRACTOR'S EXPENSE RELOCATING OF EXISTING SERVICES AND/OR UTILITIES SHALL BE AS SHOWN ON THE DRAWINGS OR DETECTED BY THE ENGINEER AT THE EXPENSE OF DEVELOPERS 5. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE 'OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR
- CONSTRUCTION PROJECTS'. THE GENERAL CONTRACTORS SHALL BE DEEMED TO BE THE 'CONTRACTOR' AS DEFINED IN THE ACT. 6. ALL THE CONSTRUCTION SIGNAGE MUST CONFIRM TO THE MINISTRY OF TRANSPORTATION OF ONTARIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES PER LATEST AMENDMENT.
- 7. THE CONTRACTOR IS ADVISED THAT WORKS BY OTHERS MAY BE ONGOING DURING THE PERIOD OF THE CONTRACT. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES TO PREVENT CONFLICTS.
- 8. ALL DIMENSIONS ARE IN METRES UNLESS SPECIFIED OTHERWISE.
- 9. THERE WILL BE NO SUBSTITUTION OF MATERIALS UNLESS PRIOR WRITTEN APPROVAL IS RECEIVED FROM THE ENGINEER. 10. ALL CONSTRUCTION SHALL BE CARRIED OUT IN ACCORDANCE WITH THE RECOMMENDATIONS MADE IN THE GEOTECHNICAL REPORT.
- 11.FOR DETAILS RELATING TO STORMWATER MANAGEMENT AND ROOF DRAINAGE REFER TO THE SITE SERVICING AND STORMWATER MANAGEMENT REPORT
- 12. ALL SEWERS CONSTRUCTED WITH GRADES LESS THAN 1.0% SHALL BE INSTALLED USING LASER ALIGNMENT AND CHECKED WITH LEVEL INSTRUMENT PRIOR TO BACKFILLING.
- 13. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED AND TO BEAR THE COST OF THE SAME.
- 14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADDITIONAL BEDDING, OR ADDITIONAL STRENGTH PIPE IF THE MAXIMUM TRENCH WIDTH AS SPECIFIED BY OPSD IS EXCEEDED
- 15. ALL PIPE/CULVERT SECTION SIZES REFER TO INSIDE DIMENSIONS.
- 16. SHOULD DEEPLY BURIED ARCHAEOLOGICAL REMAINS BE FOUND ON THE PROPERTY DURING CONSTRUCTION ACTIVITIES. THE HERITAGE OPERATIONS UNIT OF THE ONTARIO MINISTRY OF CULTURE MUST BE NOTIFIED IMMEDIATELY. 17. ALL NECESSARY CLEARING AND GRUBBING SHALL BE COMPLETED BY THE CONTRACTOR. REVIEW WITH CONTRACT ADMINISTRATOR AND
- THE CITY OF OTTAWA PRIOR TO ANY TREE CUTTING/REMOVAL
- 18. DRAWINGS SHALL BE READ ON CONJUNCTION WITH ARCHITECTURAL SITE PLAN. 19. THE CONTRACTOR SHALL PROVIDE THE PROJECT ENGINEER ON SET OF AS CONSTRUCTED SITE SERVICING AND GRADING DRAWINGS.
- 20.BENCHMARKS: IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THAT THE SITE BENCHMARK(S) HAS NOT BEEN ALTERED OR DISTURBED AND THAT ITS RELATIVE ELEVATION AND DESCRIPTION AGREES WITH THE INFORMATION DEPICTED ON THIS PLAN.

## EROSION AND SEDIMENT CONTROL NOTES

### GENERAL

THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES, TO PROVIDE FOR PROTECTION OF THE AREA DRAINAGE SYSTEM AND THE RECEIVING WATERCOURSE, DURING CONSTRUCTION ACTIVITIES. THE CONTRACTOR ACKNOWLEDGES THAT FAILURE TO IMPLEMENT APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES MAY BE SUBJECT TO PENALTIES IMPOSED BY ANY APPLICABLE REGULATORY AGENCY.

THE CONTRACTOR ACKNOWLEDGES THAT SURFACE EROSION AND SEDIMENT RUNOFF RESULTING FROM THEIR CONSTRUCTION OPERATIONS HAS POTENTIAL TO CAUSE A DETRIMENTAL IMPACT TO ANY DOWNSTREAM WATERCOURSE OR SEWER, AND THAT ALL CONSTRUCTION OPERATIONS THAT MAY IMPACT UPON WATER QUALITY SHALL BE CARRIED OUT IN MANNER THAT STRICTLY MEETS THE REQUIREMENT OF ALL APPLICABLE LEGISLATION AND REGULATIONS.

AS SUCH, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CARRYING OUT THEIR OPERATIONS, AND SUPPLYING AND INSTALLING ANY APPROPRIATE CONTROL MEASURES, SO AS TO PREVENT SEDIMENT LADEN RUNOFF ENTERING ANY SEWER OR WATERCOURSE WITHIN OR DOWNSTREAM OF THE WORKING AREA.

THE CONTRACTOR ACKNOWLEDGES THAT NO ONE MEASURE IS LIKELY TO BE 100% EFFECTIVELY FOR EROSION PROTECTION AND CONTROLLING SEDIMENT RUNOFF AND DISCHARGES FROM THE SITE. THEREFORE, WHERE NECESSARY THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL MEASURES ARRANGED IN SUCH MANNER AS TO MITIGATE SEDIMENT RELEASE FROM THE CONSTRUCTION OPERATIONS AND ACHIEVE SPECIFIC MAXIMUM PERMITTED CRITERIA WHERE APPLICABLE. SUGGESTED ON-SITE MEASURES MAY INCLUDE, BUT SHALL NOT BE LIMITED TO, THE FOLLOWING METHODS: SEDIMENT PONDS, FILTER BAGS, PUMP FILTERS, SETTLING TANKS, SILT FENCE, STRAW BALES, FILTER CLOTHS, CATCH BASIN FILTERS, CHECK DAMS AND/OR OTHER RECOGNIZED TECHNOLOGIES AND METHOD AVAILABLE AT THE TIME OF CONSTRUCTION. SPECIFIC MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH REQUIREMENTS OF OPSS 577 WHERE APPROPRIATE, OR IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

WHERE, IN THE OPINION OF THE CONTRACT ADMINISTRATOR OR REGULATORY AGENCY, THE INSTALLED CONTROL MEASURES FAIL TO PERFORM ADEQUATELY. THE CONTRACTOR SHALL SUPPLY AND INSTALL ADDITIONAL OR ALTERNATIVE MEASURES AS DIRECTED BY THE CONTRACT ADMINISTRATOR OR REGULATORY AGENCY, AS SUCH, THE CONTRACTOR SHALL HAVE ADDITIONAL CONTROL MATERIALS ON SITE AT ALL TIME WHICH ARE EASILY ACCESSIBLE AND MAY BE IMPLEMENTED BY HIM AT THE MOMENT'S NOTICE.

PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL SUBMIT TO THE CONTRACT ADMINISTRATOR SIX COPIES OF A DETAILED EROSION AND SEDIMENT CONTROL PLAN (ESCP). THE ESCP WILL CONSIST OF WRITTEN DESCRIPTION AND DETAILED DRAWINGS INDICATING THE ON-SITE ACTIVITIES AND MEASURES TO BE USED TO CONTROL EROSION AND SEDIMENT MOVEMENT FOR EACH STEP OF THE WORK.

## CONTRACTOR'S RESPONSIBILITIES

THE CONTRACTOR SHALL ENSURE THAT ALL WORKERS, INCLUDING SUB-CONTRACTOR, IN THE WORKING ARE ARE AWARE OF THE IMPORTANCE OF THE EROSION AND SEDIMENT CONTROL MEASURES AND INFORMED OF THE CONSEQUENCES OF THE FAILURE TO COMPLY WITH THE REQUIREMENTS OF ALL REGULATORY AGENCIES.

THE CONTRACTOR SHALL PERIODICALLY, AND WHEN REQUESTED BY THE CONTRACT ADMINISTRATOR, CLEAN OUT ACCUMULATED SEDIMENT DEPOSITS AS REQUIRED AT THE SEDIMENT CONTROL DEVICES, INCLUDING THOSE DEPOSITS THAT MAY ORIGINATE FROM OUTSIDE THE CONSTRUCTION AREA, ACCUMULATED SEDIMENT SHALL BE REMOVED IN SUCH A MANNER THAT PREVENTS THE DEPOSITION OF THIS MATERIAL INTO THE SEWER WATERCOURSE AND AVOIDS DAMAGE TO CONTROL MEASURES. THE SEDIMENT SHALL BE REMOVED FROM THE SITE AT THE CONTRACTOR'S EXPENSE AND MANAGED IN COMPLIANCE WITH REQUIREMENTS FRO EXCESS EARTH MATERIAL, AS SPECIFIED ELSEWHERE IN THE CONTRACT.

THE CONTRACTOR SHALL IMMEDIATELY REPORT TO THE CONTRACT ADMINISTRATOR ANY ACCIDENTAL DISCHARGES OF SEDIMENT MATERIAL INTO EITHER THE WATERCOURSE OR THE STORM SEWER SYSTEM. FAILURE TO REPORT WILL BE CONSTITUTE A BRACH OF THIS SPECIFICATION AND THE CONTRACTOR MAY ALSO BE SUBJECT TO THE PENALTIES IMPOSED BY THE APPLICABLE REGULATORY AGENCY, APPROPRIATE RESPONSE MEASURES, INCLUDING ANY REPAIRS TO EXISTING CONTROL MEASURES OR THE IMPLEMENTATION OF ADDITIONAL CONTROL MEASURES, SHALL BE CARRIED OUT BY THE CONTRACTOR WITHOUT DELAY.

THE SEDIMENT CONTROL MEASURES SHALL ONLY BE REMOVED WHEN, IN THE OPINION OF THE CONTRACT ADMINISTRATOR, THE MEASURE OR MEASURES, IS NO LONGER REQUIRED. NO CONTROL MEASURE MAY BE PERMANENTLY REMOVED WITHOUT PRIOR AUTHORIZATION FROM THE CONTRACT ADMINISTRATOR. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE REMOVED IN A MANNER THAT AVOIDS THE ENTRY OF ANY EQUIPMENT, OTHER THAN HAND-HELD EQUIPMENT, INTO ANY WATERCOURSE, AND PREVENTS THE RELEASE OF ANY SEDIMENT OR DEBRIS INTO ANY SEWER OR WATERCOURSE WITHIN OR DOWNSTREAM OF THE WORKING AREA. ALL ACCUMULATED SEDIMENT SHALL BE REMOVED FROM THE WORKING AREA AT THE CONTRACTOR'S EXPENSE AND MANAGED IN COMPLIANCE WITH THE REQUIREMENTS FOR EXCESS EARTH MATERIAL

WHERE, IN THE OPINION OF EITHER THE CONTRACT ADMINISTRATOR OR A REGULATORY AGENCY, ANY OF THE TERMS SPECIFIED HEREIN HAVE NOT BEEN COMPLIED WITH OR PERFORMED IN A SUITABLE MANNER, OR TAT ALL, THE CONTRACTOR ADMINISTRATOR OR A REGULATORY AGENCY HAS THE RIGHT TO IMMEDIATELY WITHDRAW ITS PERMISSION TO CONTINUE THE WORK BUT MAY RENEW ITS PERMISSION UPON BEING SATISFIED THAT THE DEFAULTS OR DEFICIENCIES IN THE PERFORMANCE OF THIS SPECIFICATION BY THE CONTRACTOR HAVE BEEN REMEDIED.

## SPILL CONTROL NOTES

- 1. ALL CONSTRUCTION EQUIPMENT SHALL BE RE-FUELED, MAINTAINED, AND STORED NO LESS THAN 30 METRES FROM WATERCOURSE.
- STEAMS, CREEKS, WOODLOTS, AND ANY ENVIRONMENTALLY SENSITIVE AREAS, OR AS OTHERWISE SPECIFIED. 2. THE CONTRACTOR MUST IMPLEMENT ALL NECESSARY MEASURES IN ORDER TO PREVENT LEAKS, DISCHARGES OR SPILLS OF POLLUTANTS, DELETERIOUS MATERIALS, OR OTHER SUCH MATERIALS OR SUBSTANCES WHICH WOULD OR COULD CAUSE AN ADVERSE IMPACT TO THE
- NATURAL ENVIRONMENT 3. IN THE EVENT OF A LEAK, DISCHARGE OR SPILL OF POLLUTANT, DELETERIOUS MATERIAL OR OTHER SUCH MATERIAL OR SUBSTANCE WHICH WOULD OR COULD CAUSE AN ADVERSE IMPACT TO THE NATURAL ENVIRONMENT, THE CONTRACTOR SHALL:
- 3.1. IMMEDIATELY NOTIFY APPROPRIATE FEDERAL, PROVINCIAL, AND LOCAL GOVERNMENT MINISTRIES, DEPARTMENTS, AGENCIES, AND AUTHORITIES OF THE INCIDENT IN ACCORDANCE WITH ALL CURRENT LAWS, LEGISLATION, ACTS, BY-LAWS, PERMITS, APPROVALS,
- 3.2. TAKE IMMEDIATE MEASURES TO CONTAIN THE MATERIAL OR SUBSTANCE, AND TO TAKE SUCH MEASURES TO MITIGATE AGAINST ADVERSE IMPACTS TO THE NATURAL ENVIRONMENT. 3.3. RESTORE THE AFFECTED AREA TO THE ORIGINAL CONDITION OR BETTER TO THE SATISFACTION OF THE AUTHORITIES HAVING
- JURISDICTION.

# MUD MAT NOTES

- . THE GRANULAR MATERIAL WILL REQUIRE PERIODIC REPLACEMENT AS IT BECOMES CONTAMINATED BY VEHICLE TRAFFIC.
- 2. SEDIMENT SHALL BE CLEANED FROM PUBLIC ROADS AT THE END OF EACH DAY.
- B. SEDIMENT SHALL BE REMOVED FROM PUBLIC ROADS BY SHOVELING OR SWEEPING AND DISPOSED OR PROPERLY IN A CONTROLLED SEDIMENT DISPOSAL AREA.

# SITE GRADING NOTES

- FROSION CONTROL PLAN
- RECOMMENDATIONS
- OF CONSTRUCTION
- AND OPSS 310.
- 7. SUB-EXCAVATE SOFT AREAS AND FILL WITH GRANULAR 'B' COMPACTED IN MAXIMUM 300MM LIFTS.
- REQUIRED BY THE MUNICIPALITY.
- 11. REFER TO ARCHITECTURAL SITE PLAN FOR DIMENSIONS AND SITE DETAILS.
- STANDARDS.

# ROADWORK SPECIFICATIONS

- STOCK PILLED ON SITE AS DIRECTED BY NATIONAL MUNICIPALITY.
- 17. THE SUBGRADE SHALL BE CROWNED AND SLOPED AT LEAST 2% AND PROOF ROLLED WITH HEAVY ROLLERS.

# SANITARY, FOUNDATION DRAIN, STORM SEWER AND WATERMAIN NOTES

## GENERAL

- 1. LASER ALIGNMENT CONTROL TO BE UTILIZED ON ALL SEWER INSTALLATIONS. SHOULD EXTEND FROM TRENCH WALL TO TRENCH WALL. THE SEALS SHOULD EXTEND FROM THE FROST LINE AND FULLY PENETRATE THE
- AND AT 60M INTERVALS IN THE SERVICE TRENCHES. 3. SERVICES TO BUILDING TO BE TERMINATED 1.0M FROM THE OUTSIDE FACE OF BUILDING UNLESS OTHERWISE NOTED.
- PROCTOR DENSITY. A MINIMUM OF 300MM AROUND STRUCTURES
- ADJUSTING UNITS ON THE OUTSIDE ONLY. 6. SAFETY PLATFORMS SHALL BE PER OPSD 404.02.
- 7. DROP STRUCTURES SHALL BE IN ACCORDANCE WITH OPSD 1003.01, IF APPLICABLE.
- SATISFACTION OF THE ENGINEER. THE CONSULTANT FOR REVIEW AND APPROVAL PRIOR TO PLACEMENT OF WEAR COURSE ASPHALT.

### SANITARY

- STANDARD DRAWINGS (OPSD), AND SPECIFICATIONS (OPSS).
- 11. ALL SANITARY GRAVITY SEWER SHALL BE PVC SDR 35, IPEX 'RING-TITE' (OR APPROVED EQUIVALENT) PER CSA STANDARD B182.2 OR LATEST AMENDMENT, UNLESS SPECIFIED OTHERWISE
- 12. EXISTING MAINTENANCE STRUCTURES TO BE RE-BENCHED WHERE A NEW CONNECTION IS MADE. 13. SANITARY GRAVITY SEWER TRENCH AND BEDDING SHALL BE PER CITY OF OTTAWA STD. S6 AND S7 CLASS 'B' BEDDING, UNLESS SPECIFIED OTHERWISE.
- 14. SANITARY MAINTENANCE STRUCTURE FRAME AND COVERS SHALL BE PER CITY OF OTTAWA STD. S24 AND S25. SANITARY MAINTENANCE STRUCTURES SHALL BE BENCHED PER OPSD 701.021.
- DRAWING SSP-1.

# STORM

- GASKETS AS PER CSA A257.3, OR LATEST AMENDMENT
- SPECIFIED. BEDDING AND COVER MATERIAL SHALL BE SPECIFIED BY PROJECT GEOTECHNICAL ENGINEER.
- 20. CATCH BASIN SHALL BE IN ACCORDANCE WITH OPSD 705.010.
- 21. CATCH BASIN LEADS SHALL BE IN 200MM DIA. AT 1% SLOPE (MIN) UNLESS SPECIFIED OTHERWISE.
- 22. ALL CATCH BASINS SHALL HAVE 600MM SUMPS, UNLESS SPECIFIED OTHERWISE
- MADE NECESSARY BY THE WIDENED TRENCH

- APPLICABLE 27. RIP-RAP TREATMENT SEWER AND CULVERT OUTLETS PER OPSD 810.010.

# WATERMAIN

- DRAWINGS (OPSD) AND SPECIFICATIONS (OPSS
- 31. ALL PVC WATERMAINS SHALL BE AWWA C-900 CLASS 150, SDR 18 OR APPROVED EQUIVALENT.
- AND COVER MATERIAL SHALL BE SPECIFIED BY THE PROJECT GEOTECHNICAL ENGINEER.
- OTTAWA STD. W.36.
- 36. VALVE BOXES SHALL BE INSTALLED PER CITY OF OTTAWA STD W24.

- WATERMAIN
- 2.4M
- THE SEWER. 43. ALL WATERMAINS SHALL HAVE A MINIMUM COVER OR 2.4M, OTHERWISE THERMAL INSULATION IS REQUIRED AS PER STD DWG W22.

BACK FROM STUB.

44. GENERAL WATER PLANT TO UTILITY CLEARANCE AS PER STD DWG R20.

MUNICIPAL AND/OR PROVINCIAL REQUIREMENTS ARE FOLLOWED.

FINISHED GRADE AT HYDRANT. FIRE HYDRANT LOCATION AS PER STD DWG W18

49. ALL WATERMAIN STUBS SHALL BE TERMINATED WITH A PLUG AND 50MM BLOW OFF UNLESS OTHERWISE NOTED.

45. FIRE HYDRANT INSTALLATION AS PER STD DWG W19, ALL BOTTOM OF HYDRANT FLANGE ELEVATIONS TO BE INSTALLED 0.10M ABOVE PROPOSED

47. ALL WATERMAINS SHALL BE HYDROSTATICALLY TESTED IN ACCORDANCE WITH THE CITY OF OTTAWA AND ONTARIO GUIDELINES UNLESS

48. ALL WATERMAINS SHALL BE BACTERIOLOGICALLY TESTED IN ACCORDANCE WITH THE CITY OF OTTAWA AND ONTARIO GUIDELINES. ALL

OTHERWISE DIRECTED. PROVISIONS FOR FLUSHING WATER LINE PRIOR TO TESTING, ETC. MUST BE PROVIDED.

46. BUILDING SERVICE TO BE CAPPED 1.0M OFF THE FACE OF THE BUILDING UNLESS OTHERWISE NOTED AND MUST BE RESTRAINED A MINIMUM OF 12M

CHLORINATED WATER TO BE DISCHARGED AND PRETREATED TO ACCEPTABLE LEVELS PRIOR TO DISCHARGE. ALL DISCHARGED WATER MUST BE

CONTROLLED AND TREATED SO AS NOT TO ADVERSELY EFFECT ENVIRONMENT. IT IS RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL

WATER PIPE SHALL BE CENTERED AT THE POINT OF CROSSING TO ENSURE THAT THE JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM

# ADEQUATE STRUCTURAL SUPPORT FOR THE SEWER IS REQUIRED TO PREVENT EXCESSIVE DEFLECTION OF JOINTS AND SETTLING. THE LENGTH OF

42. THE MINIMUM VERTICAL CLEARANCE BETWEEN WATERMAIN AND SEWER/UTILITY IS 0.5M PER MOE GUIDELINES. FOR CROSSING UNDER SEWERS,

41. WATER SERVICES ARE TO BE INSULATED PER CITY STD. W23 WHERE SEPARATION BETWEEN SERVICES AND MAINTENANCE HOLES ARE LESS THAN

40. WATERMAIN CROSSING OVER AND BELOW SEWERS SHALL BE IN ACCORDANCE WITH THE CITY OF OTTAWA STD. W25.2 AND W25. RESPECTIVELY.

39. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY CAPS, PLUGS, BLOW-OFFS, AND NOZZLES REQUIRED FOR TESTING AND DISINFECTION OF THE

38. THRUST BLOCKING OF WATERMAINS TO BE INSTALLED PER CITY OF OTTAWA STD. W25.3 AND W25.4.

35. CATHODIC PROTECTION IS REQUIRED ON ALL METALLIC FITTINGS PER CITY OF OTTAWA STD.25.5 AND W25.6. 37. WATERMAIN IN FILL AREAS TO BE INSTALLED WITH RESTRAINED JOINTS PER CITY OF OTTAWA STD.25.5 AND W25.6.

34. ALL PVC WATERMAINS, SHALL BE INSTALLED WITH A 10 GAUGE STRANDED COPPER TWU OR RWU TRACER WIRE IN ACCORDANCE WITH CITY OF

32. ALL WATER SERVICES LESS THAN OR EQUAL TO 50MM IN DIAMETER TO BE TYPE 'K' COPPER. 33. WATERMAIN TRENCH AND BEDDING SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD W17. UNLESS SPECIFIED OTHERWISE. BEDDING

30. ALL WATERMAIN INSTALLATION SHALL CONFORM TO THE LATEST REVISIONS OF THE CITY OF OTTAWA AND THE ONTARIO PROVINCIAL STANDARD

28. ALL STORM SEWER/ CULVERTS TO BE INSTALLED WITH FROST TREATMENT PER OPSD 803.031 WHERE APPLICABLE. 29. ALL STORM MANHOLES WITH PIPE LESS THAN 900MM IN DIAMETER SHALL BE CONSTRUCTED WITH A 300MM SUMP AS PER SDG, CLAUSE 6.2.6.

25. ALL ROAD AND PARKING LOT CATCH BASINS TO BE INSTALLED WITH ORTHOGONALLY PLACED SUBDRAINS IN ACCORDANCE WITH DETAIL. PERFORATED SUBDRAIN FOR ROAD AND PARKING LOT CATCH BASIN SHALL BE INSTALLED PER CITY STD R1 UNLESS OTHERWISE NOTED. 26. PERFORATED SUBDRAIN FOR REAR YARD AND LANDSCAPING APPLICATIONS SHALL BE INSTALLED PER CITY STD S29, S30 AND S31, WHERE

23. ALL CATCH BASIN LEAD INVERTS TO BE 1.5M BELOW FINISHED GRADE UNLESS SPECIFIED OTHERWISE 24. THE STORM SEWER CLASSES HAVE BEEN DESIGNED BASED ON BEDDING CONDITIONS SPECIFIED ABOVE. WHERE THE SPECIFIED TRENCH WIDTH IS EXCEEDED, THE CONTRACTOR IS REQUIRED TO PROVIDE AND SHALL BE RESPONSIBLE FOR EXTRA TEMPORARY AND/OR PERMANENT REPAIRS

19. ALL PVC STORM SEWERS ARE TO BE SDR 35 APPROVED PER C.S.A. B182.2 OR LATEST AMENDMENT, UNLESS OTHERWISE SPECIFIED.

CONCRETE STORM SEWER PIPE SHALL BE IN ACCORDANCE WITH CSA A257.1. OR LATEST AMENDMENT, PIPE SHALL BE JOINED WITH STD. RUBBER 18. ALL STORM SEWER TRENCH AND BEDDING SHALL BE IN ACCORDANCE WITH THE CITY OF OTTAWA STD. S6 AND S7 CLASS 'B' UNLESS OTHERWISE

17. ALL REINFORCED CONCRETE STORM SEWER PIPE SHALL BE IN ACCORDANCE WITH CSA A257.2, OR LATEST AMENDMENT. ALL NON-REINFORCED

16. 100MM THICK HIGH-DENSITY GRADE 'A' POLYSTYRENE INSULATION TO BE INSTALLED IN ACCORDANCE WITH CITY STD W22 WHERE INDICATED ON

10. ALL SANITARY SEWER INSTALLATION SHALL CONFORM TO THE LATEST REVISIONS OF THE CITY OF OTTAWA AND THE ONTARIO PROVINCIAL

9. CONTRACTOR SHALL PERFORM LEAKAGE TESTING, IN THE PRESENCE OF THE CONSULTANT, FOR SANITARY SEWERS IN ACCORDANCE WITH OPSS 407. CONTRACTOR SHALL PERFORM VIDEO INSPECTION OF ALL SEWERS. A COPY OF THE VIDEO AND INSPECTION REPORT SHALL BE SUBMITTED TO

8. THE CONTRACTOR IS TO PROVIDE CCTV CAMERA INSPECTIONS OF ALL SEWERS, INCLUDING PICTORIAL REPORT, ONE (1) CD COPY AND TWO (2) VIDEO RECORDING IN A FORMAT ACCEPTABLE TO ENGINEER. ALL SEWER ARE TO BE FLUSHED PRIOR TO CAMERA INSPECTION. ASPHALT WEAR COURSE SHALL NOT BE PLACED UNTIL THE VIDEO INSPECTION OF SEWERS AND NECESSARY REPAIRS HAVE BEEN COMPLETED TO THE

4. ALL MAINTENANCE STRUCTURE AND CATCH BASIN EXCAVATIONS TO BE BACKFILLED WITH GRANULAR MATERIAL COMPACTED TO 98% STANDARD 5. "MODULOC" OR APPROVED PRE-CAST MAINTENANCE STRUCTURE AND CATCH BASIN ADJUSTERS TO BE USED IN LIEU OF BRICKING. PARGE

BEDDING, SUB-BEDDING, AND COVER MATERIAL. THE BARRIERS SHOULD CONSIST OF RELATIVELY DRY AND COMPATIBLE BROWN SILTY CLAY PLACED IN MAXIMUM 225MM LIFTS AND COMPACTED TO A MINIMUM OF 95% SPMDD. THE CLAY SEALS SHOULD BE PLACED AT THE SITE BOUNDARIES

2. CLAY SEALS TO BE INSTALLED AS PER CITY STANDARD DRAWING S8. THE SEALS SHOULD BE AT LEAST 1.5M LONG (IN THE TRENCH DIRECTION) AND

18. SUB-EXCAVATE SOFT AREAS AND FILL WITH GRANULAR 'A', TYPE II COMPACTED IN MAXIMUM 300MM LIFTS. 19. ALL GRANULAR FOR ROADS SHALL BE COMPACTED TO MINIMUM OF 100% STANDARD PROCTOR DENSITY MAXIMUM DRY DENSITY (SPMDD).

15. ROADWORK TO BE COMPLETED IN ACCORDANCE WITH GEOTECHNICAL REPORT, PREPARED BY LRL ASSOCIATES. DATED NOVEMBER 2020. 16. AL TOPSOIL AND ORGANIC MATERIAL SHALL BE STRIPPED WITHIN THE ROAD ALLOWANCE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND

SUPPLY AND GEOTECHNICAL CERTIFICATION OF THE AS-CONSTRUCTED RETAINING WALL TO THE ENGINEER PRIOR TO FINAL ACCEPTANCE.

14. WHERE APPLICABLE THE CONTRACTOR IS TO SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION. SHOP DRAWINGS MUST BE SITE SPECIFIC, SIGNED AND SEALED BY A LICENSED STRUCTURAL ENGINEER. THE CONTRACTOR WILL ALSO BE REQUIRED TO

12. STEP JOINTS ARE TO BE USED WHERE PROPOSED ASPHALT MEETS EXISTING ASPHALT. ALL JOINTS MUST BE SEALED. 13. SIDEWALKS TO BE 13MM & BEVELED AT 2:1 OR 6MM WITH NO BEVEL REQUIRED BELOW THE FINISHED FLOOR SLAB ELEVATION AT ENTRANCES REQUIRED TO BE BARRIER-FREE, UNLESS OTHERWISE NOTED. ALL IN ACCORDANCE WITH OBC 3.8.1.3 & OTTAWA ACCESSIBILITY DESIGN

10. ALL PAVEMENT MARKING FEATURES AND SITE SIGNAGE SHALL BE PLACED PER ARCHITECTURAL SITE PLAN. LINE PAINTING AND DIRECTIONAL SYMBOLS SHALL BE APPLIED WITH A MINIMUM OF TWO COATS OF ORGANIC SOLVENT PAINT.

9. CONTRACTOR TO OBTAIN A ROAD OCCUPANCY PERMIT 48 HOURS PRIOR TO COMMENCING ANY WORK WITHIN THE MUNICIPAL ROAD ALLOWANCE, IF

8. ALL WORK ON THE MUNICIPAL RIGHT OF WAY AND EASEMENTS TO BE INSPECTED BY THE MUNICIPALITY PRIOR BACKFILLING.

CONCRETE ISLANDS, AND SIDEWALKS SHOWN O THIS DRAWING ARE TO BR PRICED IN SITE WORKS PORTION OF THE CONTRACT. 5. PAVEMENT REINSTATEMENT FOR SERVICE AND UTILITY CUTS SHALL BE IN ACCORDANCE WITH THE CITY OF OTTAWA STD. R10 AND OPSD 509.010 6. GRANULAR 'A' SHALL BE PLACED TO A MINIMUM THICKNESS OF 300MM AROUND ALL STRUCTURES WITHIN THE PAVEMENT AREA.

4. CONCRETE CURB SHALL BE IN ACCORDANCE WITH THE CITY OF OTTAWA STD. SC1.1 PROVISION SHALL BE MADE OR CURB DEPRESSIONS AS INDICATED ON ARCHITECTURAL SITE PLAN. CONCRETE SIDEWALK SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD SC1.4. ALL CURBS,

3. ALL TOPSOIL AND ORGANIC MATERIAL SHALL BE STRIPPED WITHIN THE ROAD AND PARKING AREAS ALLOWANCE PRIOR TO THE COMMENCEMENT

1. PRIOR TO THE COMMENCEMENT OF THE SITE GRADING WORKS, ALL SILTATION CONTROL DEVICES SHALL BE INSTALLED AND OPERATIONAL PER 2. ALL GRANULAR AND PAVEMENT FOR ROADS/PARKING AREAS SHALL BE CONSTRUCTED IN ACCORDANCE WITH GEOTECHNICAL ENGINEER'S

GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION ARE PART OF THE CONTRACT DOCUMENTS AND DESCRIBE USE AND INTENT OF THE DRAWING. CONTRACT DOCUMENTS INCLUDE NOT ONLY THE DRAWINGS, BUT ALSO THOWNER-CONTRACTOR AGREEMENTS, CONDITIONS OF THE CONTRACT, TH SPECIFICATIONS, ADDENDA, AND MODIFICATIONS ISSUED AFTER EXECUTION OF THE CONTRACT. THESE CONTRACT DOCUMENTS ARE COMPLEMENTARY, WHAT IS REQUIRED BY ANY ONE SHALL BE BINDING AS IF REQUIRED BY ALL. WORK NOT COMPLETELY DELINEATED HEREON SHALL BE CONSTRUCTED OF THE SAME MATERIALS AND DETAILED SIMILARLY AS WORK SHOWN MORE COMPLETELY ELSEWHERE IN THE CONTRACT DOCUMENTS.

BY USE OF THE DRAWINGS FOR CONSTRUCTION OF THE PROJECT, THE OWNER CONFIRMS THAT HE HAS REVIEWED AND APPROVED THE DRAWINGS. T CONTRACTOR CONFIRMS THAT HE HAS VISITED THE SITE, FAMILIARIZED HIMS WITH THE LOCAL CONDITIONS, VERIFIED FIELD DIMENSIONS AND CORRELATED HIS OBSERVATIONS WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

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03	APPROVAL ISSUED FOR MUNICIPAL	К.Н.	19 DEC 2023
02	APPROVAL ISSUED FOR MUNICIPAL	К.Н.	09 JUN 2023
	APPROVAL ISSUED FOR MUNICIPAL		
01	APPROVAL	A.S.	24 DEC 2021
No.	REVISIONS	BY	DATE



OT AUTHENTIC UNLESS SIGNED AND DATE



ENGINEERING I INGÉNIERII 5430 Canotek Road | Ottawa, ON, K1J 9G2 www.lrl.ca | (613) 842-3434

LANDRIC HOMES 1173 CYRVILLE RD, SUITE 202, OTTAWA ON K1J 7S6 DESIGNED B DRAWN B APPROVED B K.H. V.J. К.Н.

# NAVAN STACKED TOWN HOMES 6001/6005 RENAUD RD, OTTAWA, ONTARIO

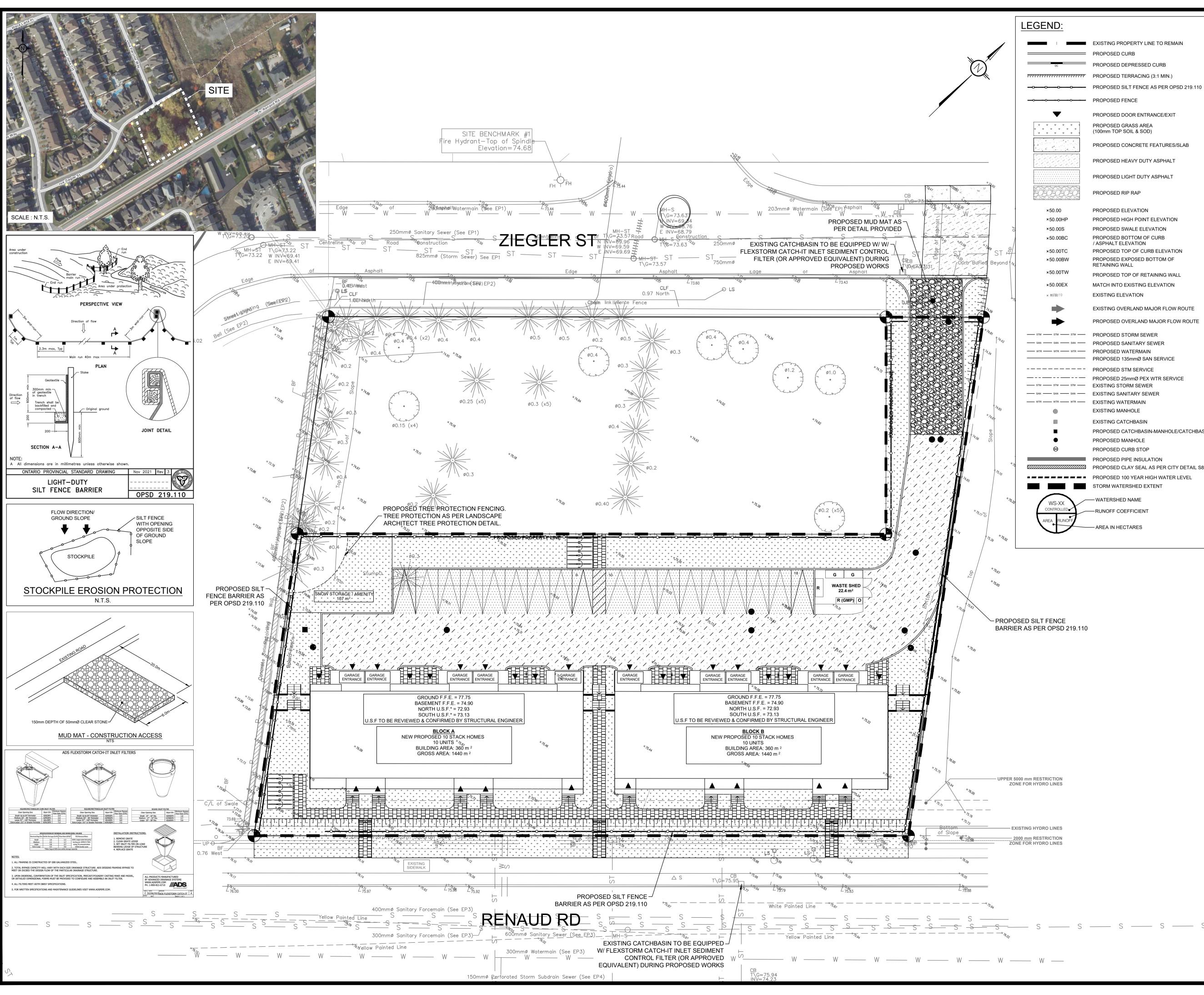
DRAWING TITLE

PROJECT

**GENERAL NOTES** 

210216

NOVEMBER 2021



PROPOSED FENCE

PROPOSED GRASS AREA

(100mm TOP SOIL & SOD)

PROPOSED DOOR ENTRANCE/EXIT

PROPOSED CONCRETE FEATURES/SLAB

PROPOSED HEAVY DUTY ASPHALT

PROPOSED LIGHT DUTY ASPHALT

PROPOSED RIP RAP PROPOSED ELEVATION PROPOSED HIGH POINT ELEVATION PROPOSED SWALE ELEVATION PROPOSED BOTTOM OF CURB / ASPHALT ELEVATION PROPOSED TOP OF CURB ELEVATION PROPOSED EXPOSED BOTTOM OF **RETAINING WALL** PROPOSED TOP OF RETAINING WALL MATCH INTO EXISTING ELEVATION EXISTING ELEVATION EXISTING OVERLAND MAJOR FLOW ROUTE PROPOSED OVERLAND MAJOR FLOW ROUTE ----- SAN ----- SAN ----- PROPOSED SANITARY SEWER PROPOSED 135mmØ SAN SERVICE ---- PROPOSED STM SERVICE PROPOSED 25mmØ PEX WTR SERVICE ----- STM ----- STM ----- EXISTING STORM SEWER ----- SAN ----- SAN ---- EXISTING SANITARY SEWER EXISTING MANHOLE EXISTING CATCHBASIN

> PROPOSED CATCHBASIN-MANHOLE/CATCHBASIN PROPOSED MANHOLE PROPOSED CURB STOP PROPOSED PIPE INSULATION PROPOSED CLAY SEAL AS PER CITY DETAIL S8

PROPOSED 100 YEAR HIGH WATER LEVEL STORM WATERSHED EXTENT - WATERSHED NAME

> -RUNOFF COEFFICIENT - AREA IN HECTARES

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USE AND INTERPRETATION OF DRAWINGS

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04	ISSUED FOR MUNICIPAL APPROVAL	К.Н.	23 APR 2024
03	ISSUED FOR MUNICIPAL APPROVAL	К.Н.	19 DEC 2023
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01	ISSUED FOR MUNICIPAL APPROVAL	A.S.	24 DEC 2021
No.	REVISIONS	BY	DATE



NOT AUTHENTIC UNLESS SIGNED AND DATED



5430 Canotek Road | Ottawa, ON, K1J 9G2 www.lrl.ca l (613) 842-3434

LANDRIC HOMES 1173 CYRVILLE RD, SUITE 202, OTTAWA ON K1J 7S6 APPROVED BY DRAWN BY: DESIGNED B

К.Н. V.J. К.Н. NAVAN STACKED TOWN HOMES

# 6001/6005 RENAUD RD, OTTAWA, ONTARIO

**EROSION AND SEDIMENT** CONTROL PLAN

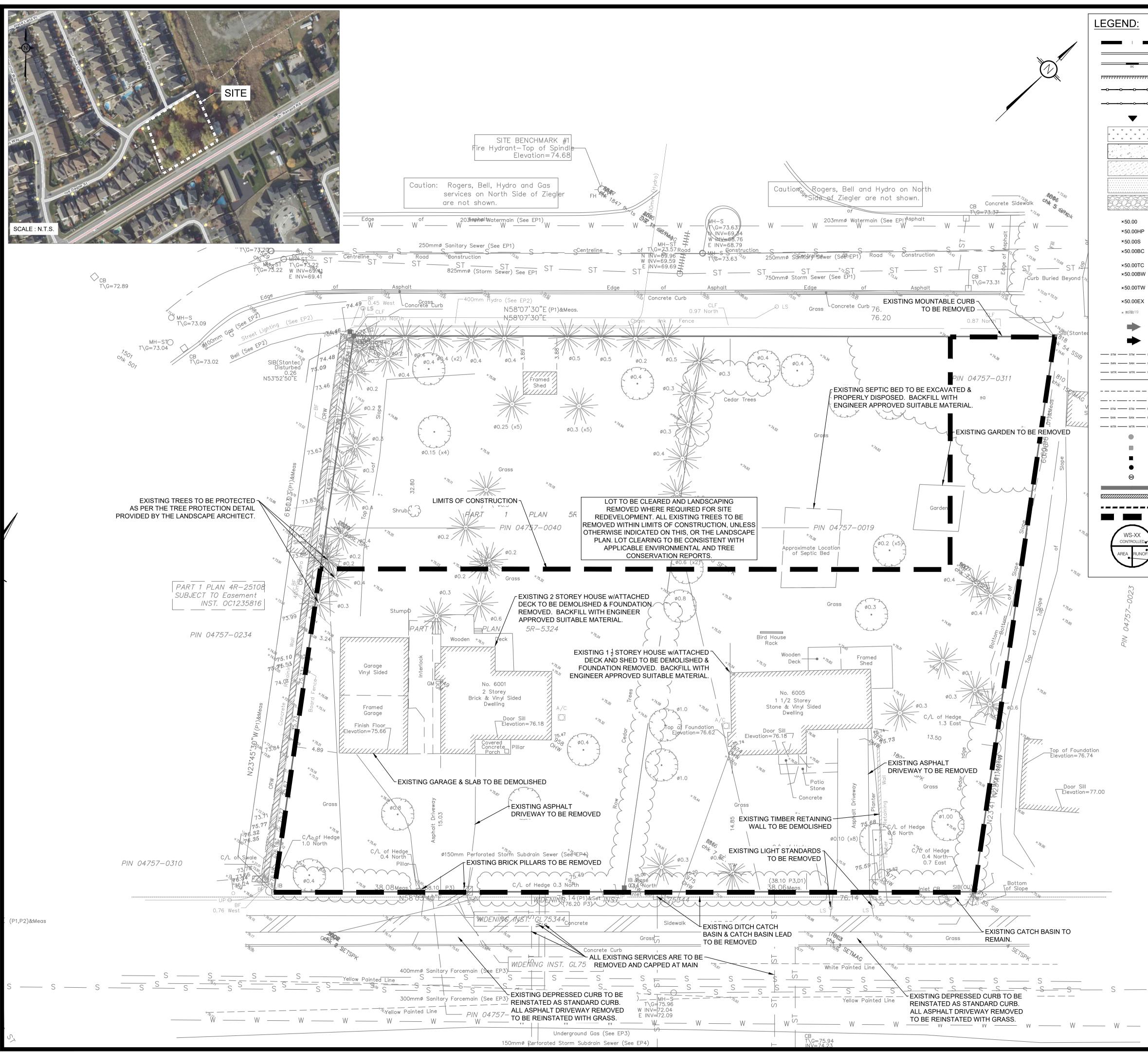
ROJECT NO.

210216

NOVEMBER 2021

DATE

C101



EXISTING PROPERTY LINE TO REMAIN PROPOSED CURB

PROPOSED DEPRESSED CURB PROPOSED SILT FENCE AS PER OPSD 219.110

PROPOSED FENCE

PROPOSED DOOR ENTRANCE/EXIT PROPOSED GRASS AREA (100mm TOP SOIL & SOD)

PROPOSED CONCRETE FEATURES/SLAB

PROPOSED HEAVY DUTY ASPHALT

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SUBJECT TO APPROVAL

ISSUED FOR MUNICIPAL K.H. 23 APR 2024 04 04 APPROVAL ISSUED FOR MUNICIPAL K.H. 19 DEC 2023 APPROVAL ISSUED FOR MUNICIPAI 03 APPROVAL 1SSUED FOR MUNICIPAL APPROVAL 1SSUED FOR MUNICIPAL APPROVAL K.H. 09 JUN 2023 A.S. 24 DEC 2021 \_\_\_\_\_ APPROVAL No. REVISIONS BY DATE



NOT AUTHENTIC UNLESS SIGNED AND DATED



ENGINEERING | INGÉNIERIE 5430 Canotek Road | Ottawa, ON, K1J 9G2 www.lrl.ca | (613) 842-3434

LANDRIC HOMES 1173 CYRVILLE RD, SUITE 202, OTTAWA ON K1J 7S6 DRAWN BY APPROVED BY V.J. К.Н. К.Н. PROJECT

# NAVAN STACKED TOWN HOMES 6001/6005 RENAUD RD, OTTAWA, ONTARIO

DEMOLITION PLAN

C102

PLAN # 18659



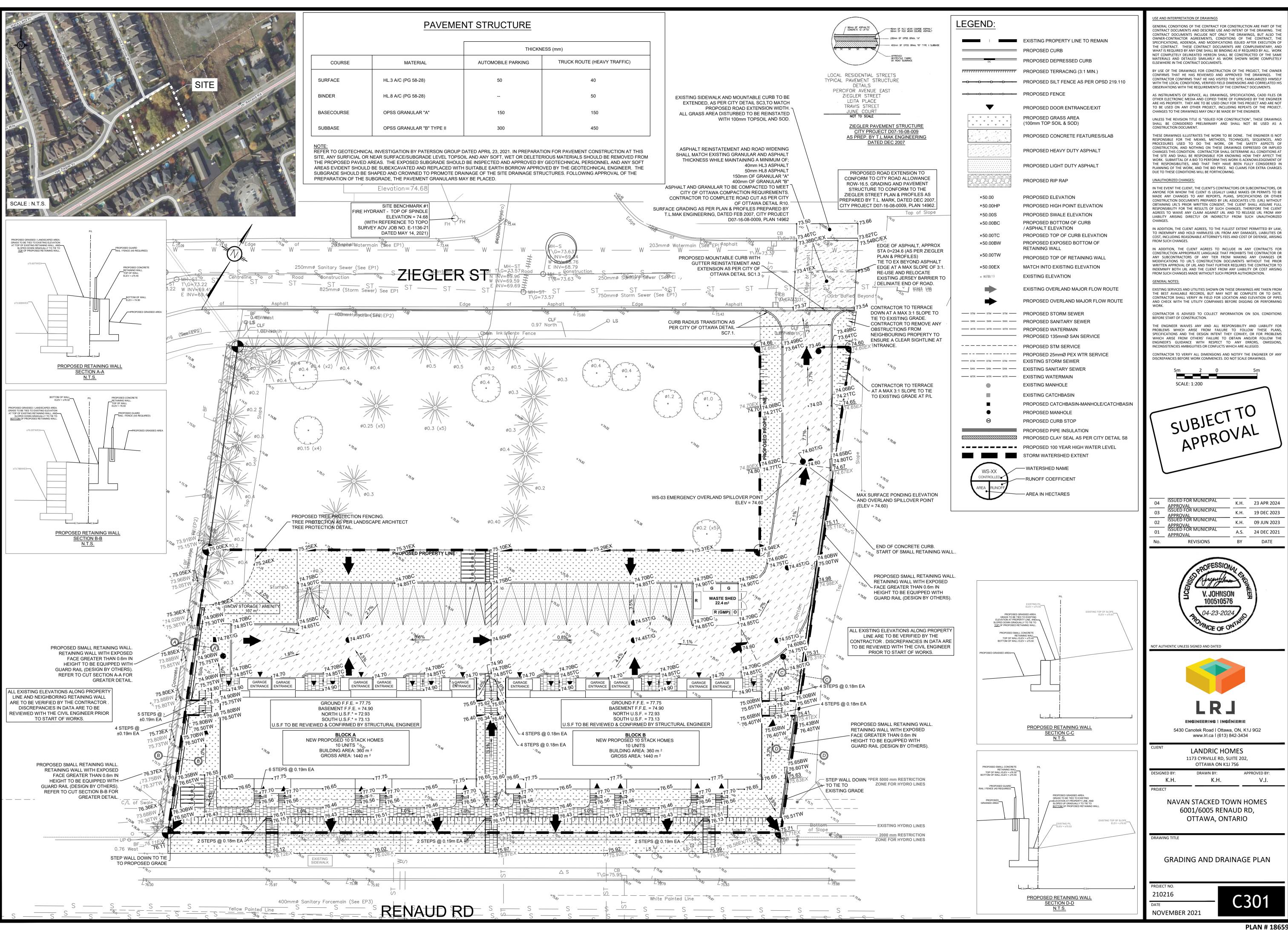
DRAWING TITLE

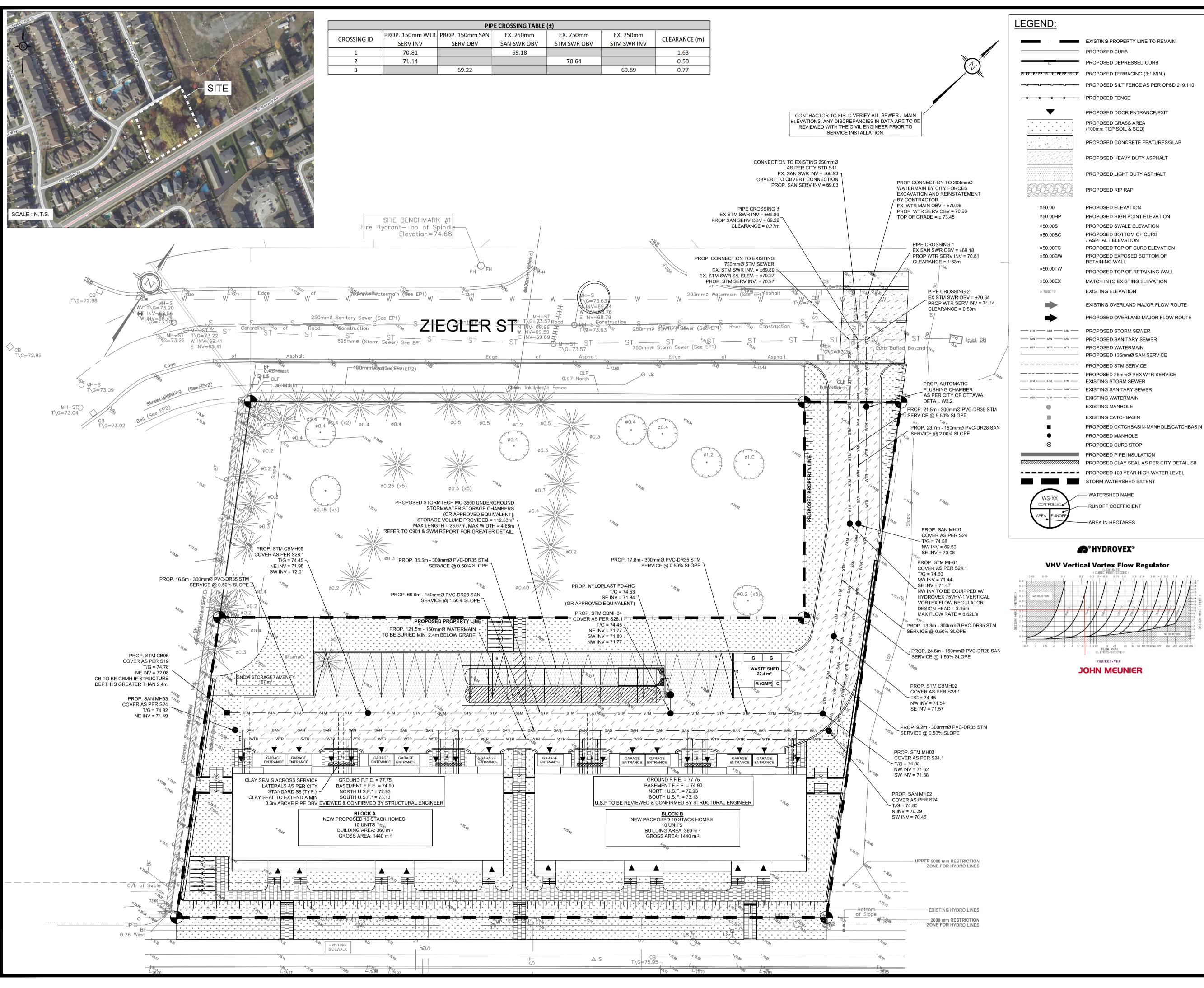
PROJECT NO.

210216

NOVEMBER 2021

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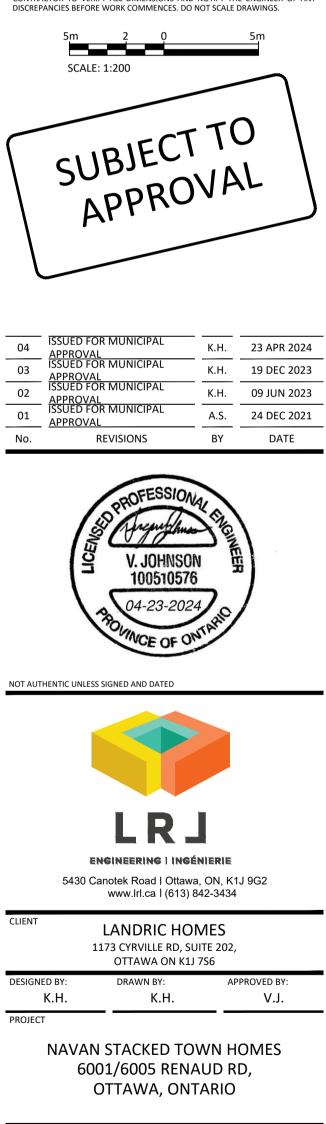
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SERVICING PLAN

PROJECT NO.

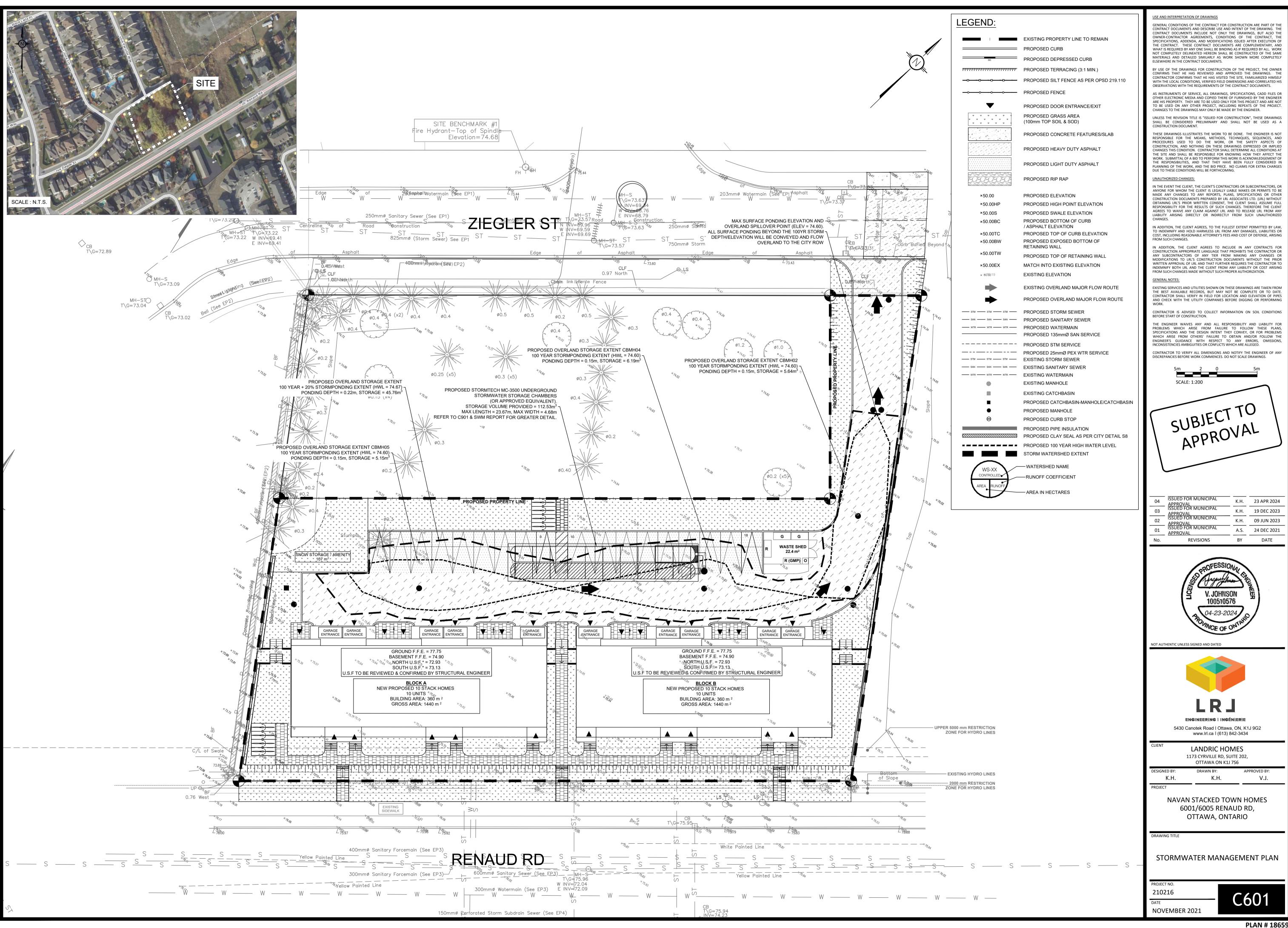
NOVEMBER 2021

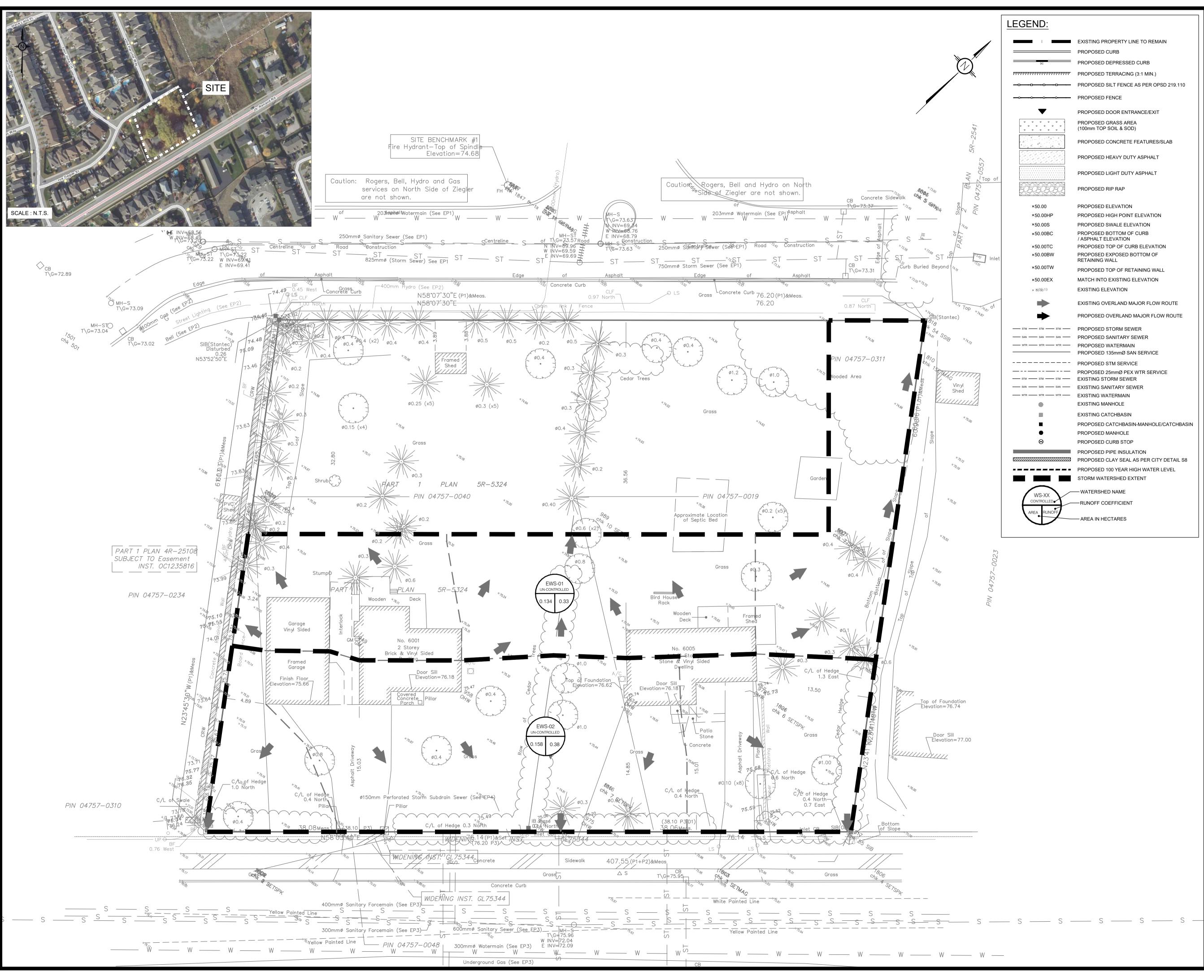
DRAWING TITLE

210216

C401

PLAN # 18659





		USE AND INTERPRETATION OF DRAWINGS
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* * * * * * * * * * * * * * *	PROPOSED GRASS AREA (100mm TOP SOIL & SOD)	UNLESS THE REVISION TITLE IS "ISSUED FOR CONSTRUCTION", THESE DRAWINGS SHALL BE CONSIDERED PRELIMINARY AND SHALL NOT BE USED AS A
	PROPOSED CONCRETE FEATURES/SLAB	CONSTRUCTION DOCUMENT. THESE DRAWINGS ILLUSTRATES THE WORK TO BE DONE. THE ENGINEER IS NOT
	PROPOSED CONCRETE FEATURES/SLAD	RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES USED TO DO THE WORK, OR THE SAFETY ASPECTS OF
	PROPOSED HEAVY DUTY ASPHALT	CONSTRUCTION, AND NOTHING ON THESE DRAWINGS EXPRESSED OR IMPLIED CHANGES THIS CONDITION. CONTRACTOR SHALL DETERMINE ALL CONDITIONS AT THE SITE AND SHALL BE RESPONSIBLE FOR KNOWING HOW THEY AFFECT THE WORK. SUBMITTAL OF A BID TO PERFORM THIS WORK IS ACKNOWLEDGEMENT OF
	PROPOSED LIGHT DUTY ASPHALT	THE RESPONSIBILITIES, AND THAT THEY HAVE BEEN FULLY CONSIDERED IN PLANNING OF THE WORK, AND THE BID PRICE. NO CLAIMS FOR EXTRA CHARGES DUE TO THESE CONDITIONS WILL BE FORTHCOMING.
	PROPOSED RIP RAP	UNAUTHORIZED CHANGES:
×50.00		IN THE EVENT THE CLIENT, THE CLIENT'S CONTRACTORS OR SUBCONTRACTORS, OR ANYONE FOR WHOM THE CLIENT IS LEGALLY LIABLE MAKES OR PERMITS TO BE MADE ANY CHANGES TO ANY REPORTS, PLANS, SPECIFICATIONS OR OTHER
×50.00 ×50.00HP	PROPOSED ELEVATION PROPOSED HIGH POINT ELEVATION	CONSTRUCTION DOCUMENTS PREPARED BY LRL ASSOCIATES LTD. (LRL) WITHOUT OBTAINING LRL'S PRIOR WRITTEN CONSENT, THE CLIENT SHALL ASSUME FULL
×50.00S	PROPOSED SWALE ELEVATION	RESPONSIBILITY FOR THE RESULTS OF SUCH CHANGES. THEREFORE THE CLIENT AGREES TO WAIVE ANY CLAIM AGAINST LRL AND TO RELEASE LRL FROM ANY LIABILITY ARISING DIRECTLY OR INDIRECTLY FROM SUCH UNAUTHORIZED
×50.00BC	PROPOSED BOTTOM OF CURB	CHANGES.
×50.00TC	/ ASPHALT ELEVATION PROPOSED TOP OF CURB ELEVATION	IN ADDITION, THE CLIENT AGREES, TO THE FULLEST EXTENT PERMITTED BY LAW, TO INDEMNIFY AND HOLD HARMLESS LRL FROM ANY DAMAGES, LIABILITIES OR COST, INCLUDING REASONABLE ATTORNEY'S FEES AND COST OF DEFENSE, ARISING
×50.00BW	PROPOSED EXPOSED BOTTOM OF RETAINING WALL	FROM SUCH CHANGES.
×50.00TW	PROPOSED TOP OF RETAINING WALL	IN ADDITION, THE CLIENT AGREES TO INCLUDE IN ANY CONTRACTS FOR CONSTRUCTION APPROPRIATE LANGUAGE THAT PROHIBITS THE CONTRACTOR OR ANY SUBCONTRACTORS OF ANY TIER FROM MAKING ANY CHANGES OR
×50.00EX	MATCH INTO EXISTING ELEVATION	MODIFICATIONS TO LRL'S CONSTRUCTION DOCUMENTS WITHOUT THE PRIOR WRITTEN APPROVAL OF LRL AND THAT FURTHER REQUIRES THE CONTRACTOR TO
× 8070019	EXISTING ELEVATION	INDEMNIFY BOTH LRL AND THE CLIENT FROM ANY LIABILITY OR COST ARISING FROM SUCH CHANGES MADE WITHOUT SUCH PROPER AUTHORIZATION.
-	EXISTING OVERLAND MAJOR FLOW ROUTE	GENERAL NOTES: EXISTING SERVICES AND UTILITIES SHOWN ON THESE DRAWINGS ARE TAKEN FROM
•	PROPOSED OVERLAND MAJOR FLOW ROUTE	THE BEST AVAILABLE RECORDS, BUT MAY NOT BE COMPLETE OR TO DATE. CONTRACTOR SHALL VERIFY IN FIELD FOR LOCATION AND ELEVATION OF PIPES AND CHECK WITH THE UTILITY COMPANIES BEFORE DIGGING OR PERFORMING
STM STM	PROPOSED STORM SEWER	WORK. CONTRACTOR IS ADVISED TO COLLECT INFORMATION ON SOIL CONDITIONS
SAN SAN	PROPOSED SANITARY SEWER	BEFORE START OF CONSTRUCTION. THE ENGINEER WAIVES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR
WTR WTR	PROPOSED WATERMAIN PROPOSED 135mmØ SAN SERVICE	PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND THE DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS WHICH ARISE FROM OTHERS' FAILURE TO OBTAIN AND/OR FOLLOW THE
	PROPOSED STM SERVICE	ENGINEER'S GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES AMBIGUITIES OR CONFLICTS WHICH ARE ALLEGED.
STM STM	PROPOSED 25mmØ PEX WTR SERVICE EXISTING STORM SEWER	CONTRACTOR TO VERIFY ALL DIMENSIONS AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES BEFORE WORK COMMENCES. DO NOT SCALE DRAWINGS.
SAN SAN	EXISTING SANITARY SEWER	5m 2 0 5m
WTR WTR		
•		SCALE: 1:200
_		
•	PROPOSED CATCHBASIN-MANHOLE/CATCHBASIN PROPOSED MANHOLE	
8	PROPOSED CURB STOP	I CUBIECT I
	PROPOSED PIPE INSULATION	SUDJE OVAL
	PROPOSED CLAY SEAL AS PER CITY DETAIL S8	ADPRUVIN
	PROPOSED 100 YEAR HIGH WATER LEVEL STORM WATERSHED EXTENT	SUBJECT TO APPROVAL
WS-XX CONTROLLED	-RUNOFF COEFFICIENT	
AREA RUNOFF		
	- AREA IN HECTARES	ISSUED FOR MUNICIPAL
		APPROVAL K.H. 23 APR 2024
		O3 APPROVAL K.H. 19 DEC 2023

02

01

No

APPROVAL ISSUED FOR MUNICIPAL

NOT AUTHENTIC UNLESS SIGNED AND DATED

DESIGNED BY:

PROJECT

DRAWING TITLE

PROJECT NO.

210216

NOVEMBER 2021

DATE

К.Н.

REVISIONS

**V. JOHNSON** 

100510576

4-23-20

ENGINEERING | INGÉNIERIE

5430 Canotek Road | Ottawa, ON, K1J 9G2

LANDRIC HOMES

1173 CYRVILLE RD, SUITE 202,

OTTAWA ON K1J 7S6

К.Н.

NAVAN STACKED TOWN HOMES

6001/6005 RENAUD RD,

OTTAWA, ONTARIO

PRE-DEVELOPMENT

WATERSHED PLAN

DRAWN BY:

www.lrl.ca | (613) 842-3434

APPROVAL ISSUED FOR MUNICIPAL

APPROVAL

PLAN # 18659

C701

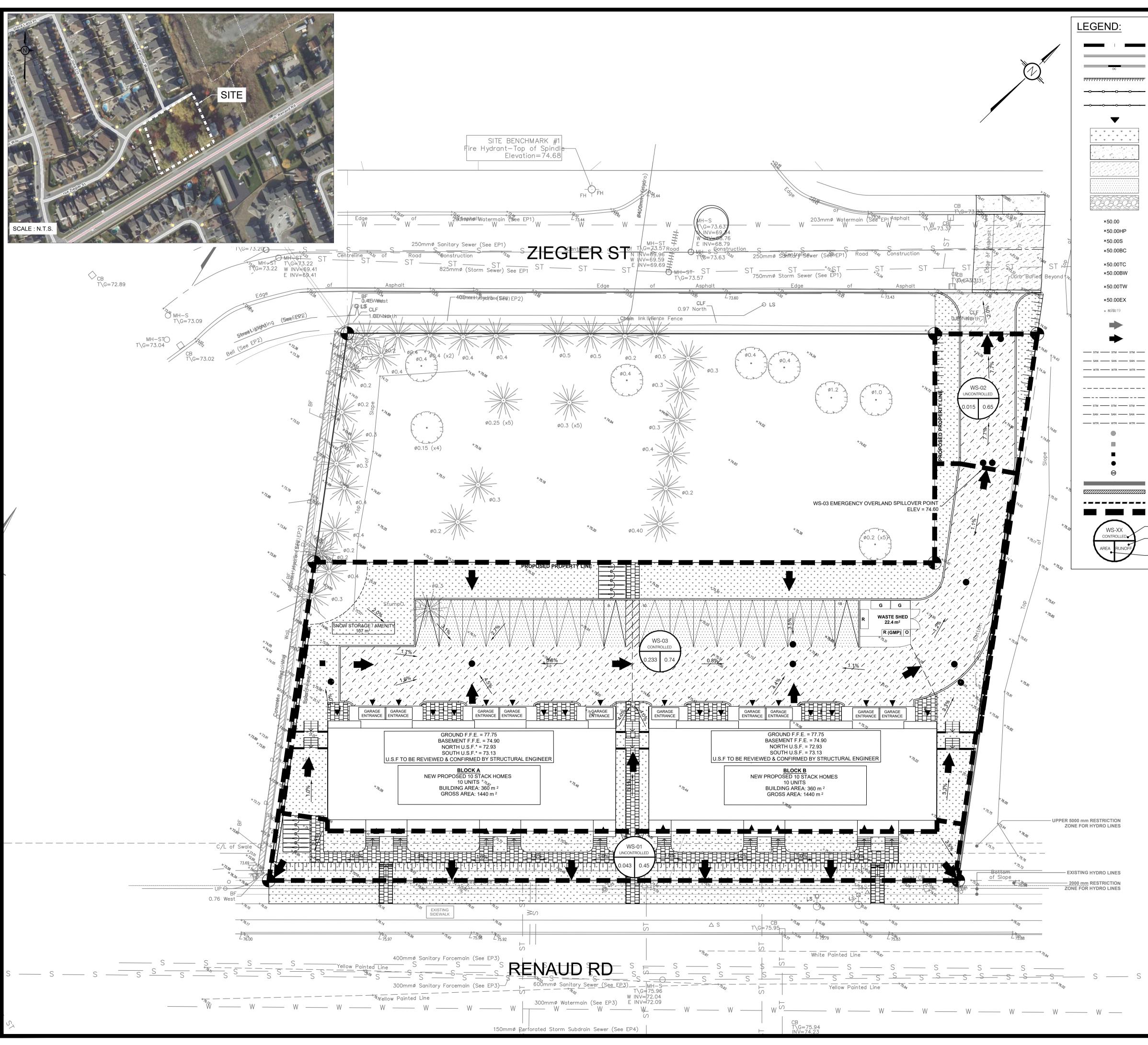
APPROVED BY:

V.J.

K.H. 09 JUN 2023

A.S. 24 DEC 2021

BY DATE



ND:	
	EXISTING PROPERTY LINE TO REMAIN
	PROPOSED CURB
DC	PROPOSED DEPRESSED CURB
որորդորդորդու	PROPOSED TERRACING (3:1 MIN.)
	PROPOSED SILT FENCE AS PER OPSD 219.110
	PROPOSED FENCE
▼	PROPOSED DOOR ENTRANCE/EXIT
+ + + + + + + + + + + + + +	PROPOSED GRASS AREA (100mm TOP SOIL & SOD)
	PROPOSED CONCRETE FEATURES/SLAB
	PROPOSED HEAVY DUTY ASPHALT
	PROPOSED LIGHT DUTY ASPHALT
	PROPOSED RIP RAP
50.00	PROPOSED ELEVATION
50.00HP	PROPOSED HIGH POINT ELEVATION
50.00S	PROPOSED SWALE ELEVATION
50.00BC	PROPOSED BOTTOM OF CURB / ASPHALT ELEVATION
50.00TC	PROPOSED TOP OF CURB ELEVATION
50.00BW	PROPOSED EXPOSED BOTTOM OF RETAINING WALL
50.00TW	PROPOSED TOP OF RETAINING WALL
50.00EX	MATCH INTO EXISTING ELEVATION
8070019	EXISTING ELEVATION
-	EXISTING OVERLAND MAJOR FLOW ROUTE
⇒	PROPOSED OVERLAND MAJOR FLOW ROUTE
— STM —— STM ——	PROPOSED STORM SEWER
— SAN —— SAN ——	PROPOSED SANITARY SEWER
WTR WTR	PROPOSED WATERMAIN PROPOSED 135mmØ SAN SERVICE
	PROPOSED STM SERVICE
	PROPOSED 25mmØ PEX WTR SERVICE
— STM —— STM ——	EXISTING STORM SEWER
— SAN —— SAN ——	EXISTING SANITARY SEWER
— WTR —— WTR ——	EXISTING WATERMAIN EXISTING MANHOLE
	EXISTING CATCHBASIN
-	PROPOSED CATCHBASIN-MANHOLE/CATCHBASIN
-	PROPOSED CATCHBASIN-MANHOLE/CATCHBASII
8	PROPOSED MANHOLE PROPOSED CURB STOP
<u> </u>	
	PROPOSED PIPE INSULATION PROPOSED CLAY SEAL AS PER CITY DETAIL S8
	PROPOSED 100 YEAR HIGH WATER LEVEL
	STORM WATERSHED EXTENT

-WATERSHED NAME -RUNOFF COEFFICIENT - AREA IN HECTARES

USE AND INTERPRETATION OF DRAWINGS

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NOT AUTHENTIC UNLESS SIGNED AND DATED



ENGINEERING | INGÉNIERIE 5430 Canotek Road | Ottawa, ON, K1J 9G2 www.lrl.ca l (613) 842-3434



# NAVAN STACKED TOWN HOMES 6001/6005 RENAUD RD, OTTAWA, ONTARIO

DRAWING TITLE

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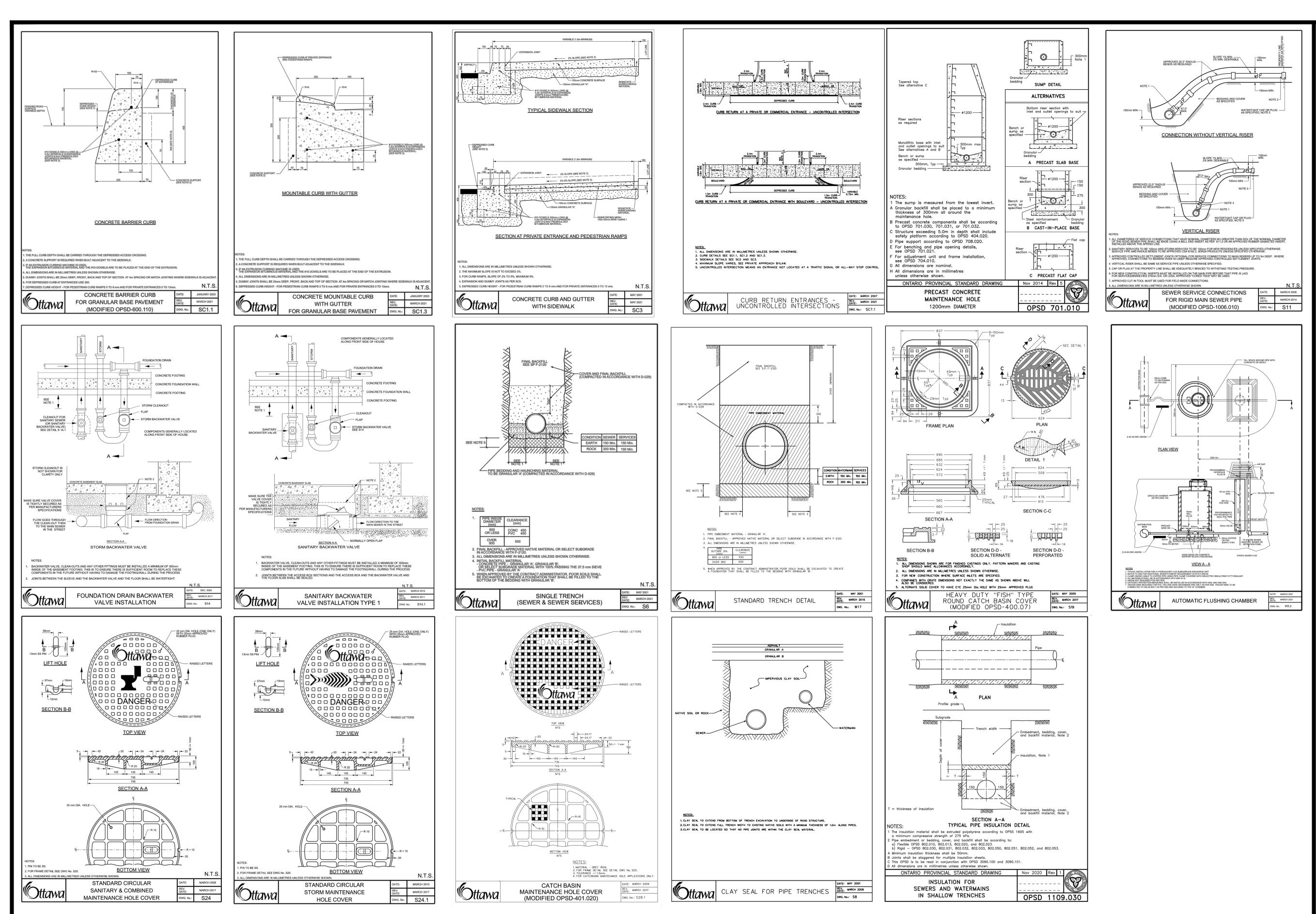
# POST-DEVELOPMENT WATERSHED PLAN

PROJECT NO. 210216

NOVEMBER 2021



PLAN # 18659



# USE AND INTERPRETATION OF DRAWINGS

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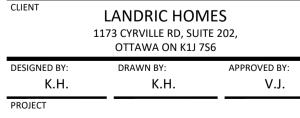
04	ISSUED FOR MUNICIPAL APPROVAL	К.Н.	23 APR 2024
03	ISSUED FOR MUNICIPAL APPROVAL	К.Н.	19 DEC 2023
02	ISSUED FOR MUNICIPAL APPROVAL	К.Н.	09 JUN 2023
01	ISSUED FOR MUNICIPAL APPROVAL	A.S.	24 DEC 2021
No.	REVISIONS	BY	DATE



NOT AUTHENTIC UNLESS SIGNED AND DATED



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# NAVAN STACKED TOWN HOMES 6001/6005 RENAUD RD, OTTAWA, ONTARIO

DRAWING TITLE

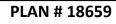
PROJECT NO. 210216

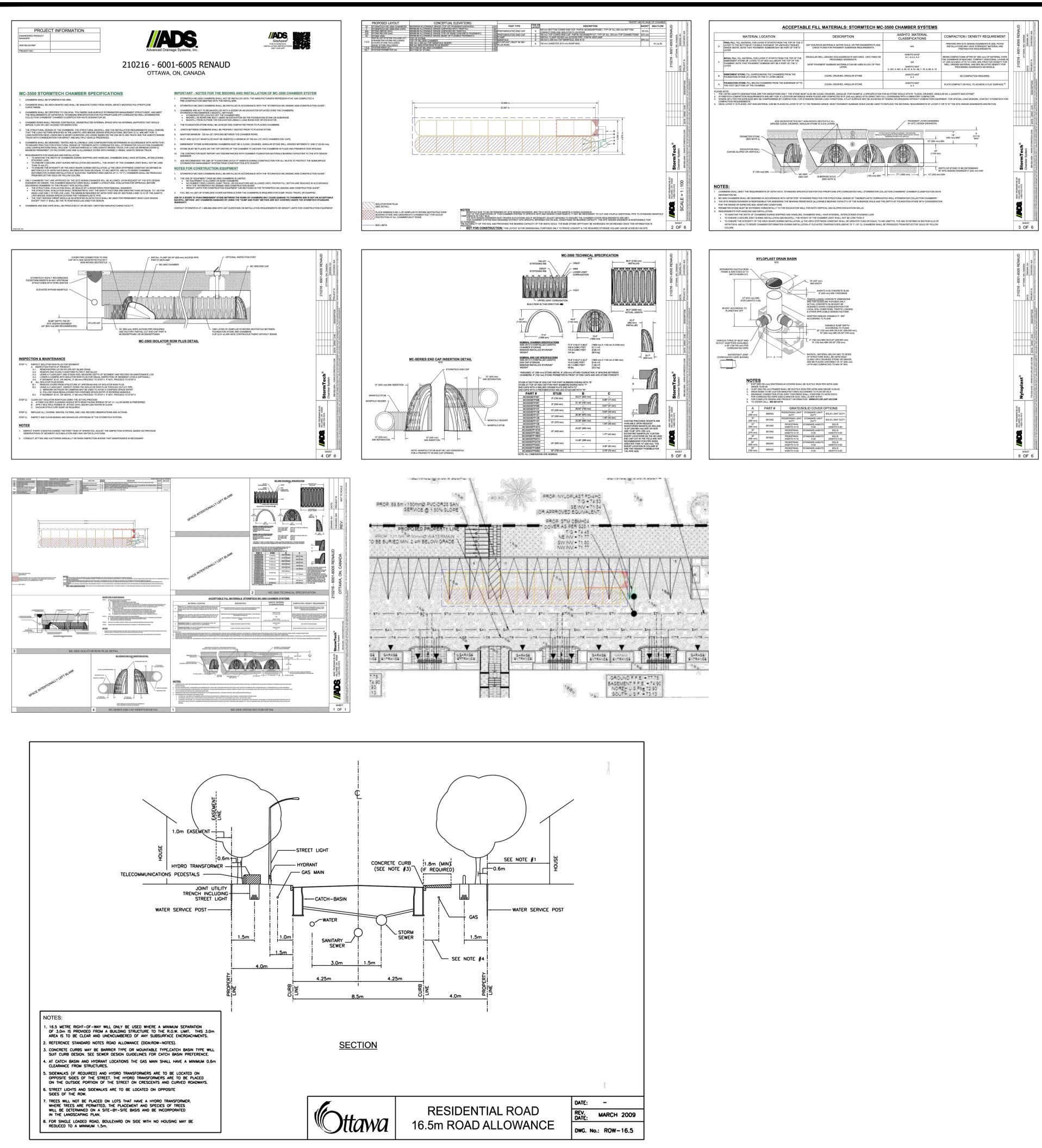
NOVEMBER 2021

# CONSTRUCTION DETAIL PLAN

C901

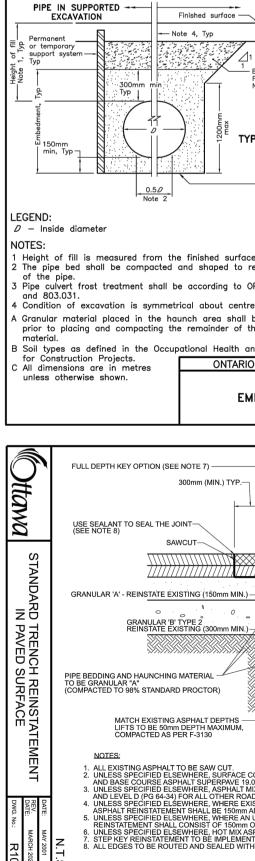
CITY FILE # D07-12-21-0239











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SUPPORTED	04       ISSUED FOR MUNICIPAL       K.H.       23 APR 2024         03       ISSUED FOR MUNICIPAL       K.H.       19 DEC 2023         02       APPROVAL       K.H.       09 JUN 2023         01       APPROVAL       A.S.       24 DEC 2021         No.       REVISIONS       BY       DATE         NO.         NO.         REVISIONS         NO.         REVISIONS         NO.         REVISIONS         DATE
FULL DEPTH KEY OPTION (SEE NOTE 7)       STEP KEY         300mm (MIN.) TYP.       300mm (MIN.) TYP.         USE SEALANT TO SEAL THE JOINT       TRENCH WIDTH         SAWCUT       SAWCUT         SAWCUT       SAWCUT         GRANULAR 'A' - REINSTATE EXISTING (150mm MIN.)       Common (MIN.)         GRANULAR 'A' - REINSTATE EXISTING (150mm MIN.)       Common (MIN.)         GRANULAR 'A' - REINSTATE EXISTING (300mm MIN.)       Common (MIN.)         GRANULAR 'A' - REINSTATE EXISTING (300mm MIN.)       Common (MIN.)         GRANULAR 'A' - REINSTATE EXISTING (300mm MIN.)       Common (MIN.)         GRANULAR 'A' - REINSTATE EXISTING (300mm MIN.)       Common (MIN.)         GRANULAR 'A' - REINSTATE EXISTING (300mm MIN.)       Common (MIN.)         GRANULAR 'A' - REINSTATE EXISTING (300mm MIN.)       Common (MIN.)         GRANULAR 'B' TYPE 2       Common (MIN.)         GRANULAR 'B' TYPE 2       Common (MIN.)         GRANULAR 'B' TYPE 2       Common (MIN.)         GRANULAR 'A' - REINSTING SUBGRADE       Common (MIN.)         FILE TO RE SONT OR SPHALT DEPTHS       Common (MIN.)         TRENCH COMPACTED TRENCH COMPACTED       Common (MIN.)         DIACCORDANCE WITH DUP20 TABLE 2       Common (MIN.)	ENGINEERING I INGÉNIERIE         S430 Canotek Road   Ottawa, ON, K1J 9G2         S430 Canotek Road   Ottawa, ON, K1J 9G2         WWW.Irl.ca   (613) 842-3434         CLIENT         LANDRIC HOMES         1173 CYRVILLE RD, SUITE 202, OTTAWA ON K1J 7S6         DESIGNED BY:         APPROVED BY:         K.H.         V.J.         PROJECT         NAVAN STACKED TOWN HOMES         6001/6005 RENAUD RD, OTTAWA, ONTARIO         DRAWING TITLE
LIFTS TO BE 50mm DEPTH MAXIMUM, COMPACTED AS PER F-3130 NOTES: 1. ALL EXISTING ASPHALT TO BE SAW CUT. 2. UNLESS SPECIFIED ELSEWHERE, SURFACE COURSE ASPHALT SUPERPAVE 12.5mm AND BASE COURSE ASPHALT SUPERPAVE 19.0mm IS TO BE USED. 3. UNLESS SPECIFIED ELSEWHERE, SANFACE COURSE ASPHALT SUPERPAVE 12.5mm AND LEVEL D (PG 64-34) FOR ALL OTHER ROADS. 4. UNLESS SPECIFIED ELSEWHERE, SPHALT MIX SHALL BE LEVEL B (PG58-34) FOR NON-BUS LOCAL ROADS, AND LEVEL D (PG 64-34) FOR ALL OTHER ROADS. 4. UNLESS SPECIFIED ELSEWHERE, WHERE EXISTING PAVEMENT STRUCTURE EXCEEDS 150mm IN DEPTH, ASPHALT REINSTATEMENT SHALL BE 150mm AND GRANULAR "A" FOR THE REMAINDER. 5. UNLESS SPECIFIED ELSEWHERE, WHERE AN UNDERLYING LAYER OF CONCRETE PAVEMENT EXISTS, REINSTATEMENT SHALL DE 150mm OF SUPERPAVE 19.0mm LEVEL B (PG58-34) COMPACTED IN LIFTS. 6. UNLESS SPECIFIED ELSEWHERE, HOT MIX ASPHALT PLACEMENT AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH F-3130. 7. STEP KEY REINSTATEMENT D BE IMPLATE PLACEMENT AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH F-3130. 7. STEP KEY REINSTATEMENT D BE IMPLATE DADAD OF HOT RUBBERIZED ASPHALT JOINT SEALING COMPOUND.	CONSTRUCTION DETAIL PLAN PROJECT NO. 210216

USE AND INTERPRETATION OF DRAWINGS

GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION ARE PART OF THE

-21-0239

DATE

PLAN # 18659

C902