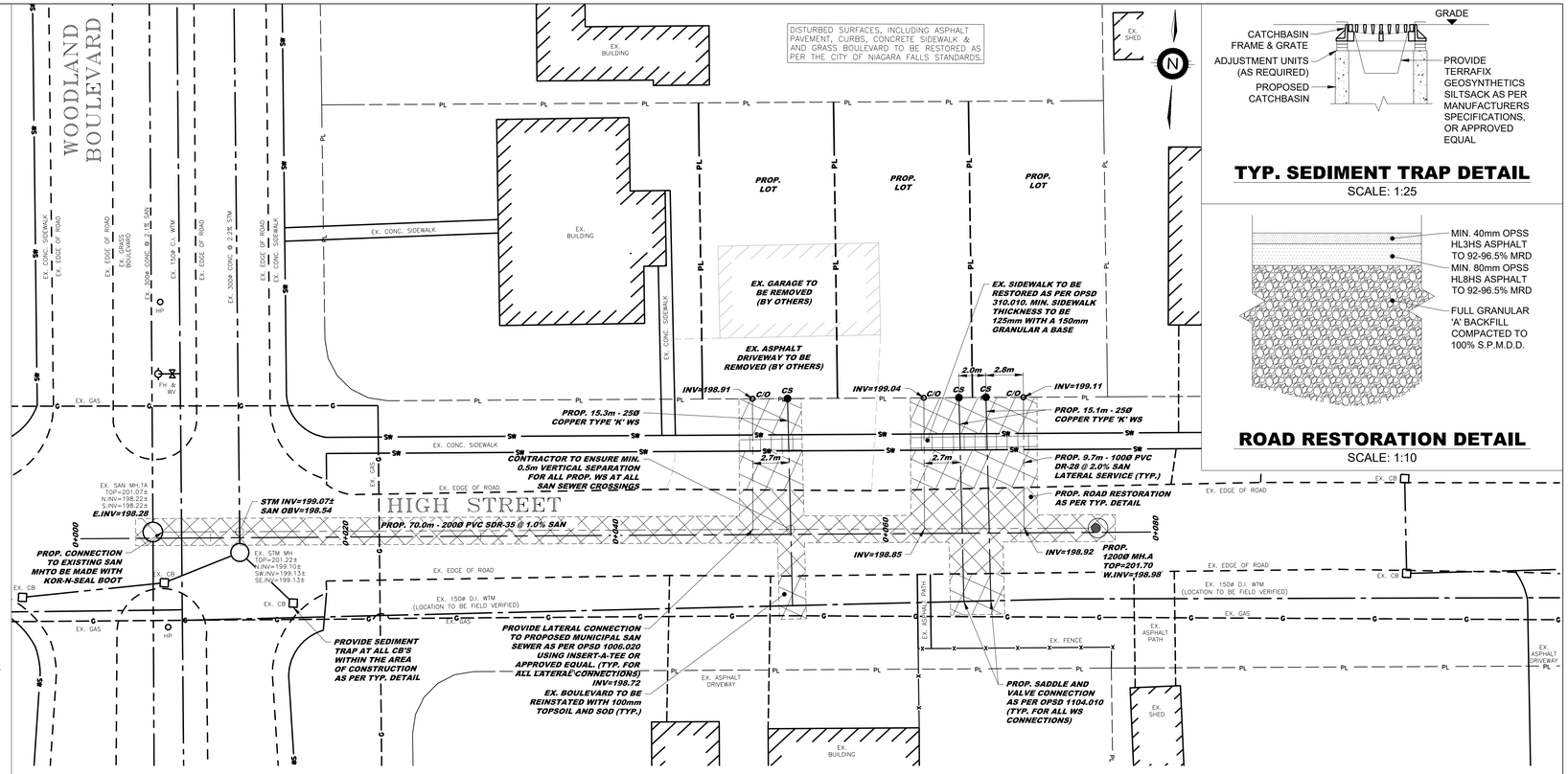
GENERAL NOTES:

1. READ ALL CIVIL DRAWINGS IN CONJUNCTION WITH ALL CONTRACT DOCUMENTS, INCLUDING ARCHITECTURAL, STRUCTURAL, ELECTRICAL, MECHANICAL, LANDSCAPE AND VENDOR DRAWINGS AS APPLICABLE.
2. THE CONTRACTOR FOR ANY PORTION OF WORK SHALL VISIT THE SITE AND SHALL BE THOROUGHLY FAMILIAR WITH ALL THE PHYSICAL FEATURES THAT MAY AFFECT THE WORK IN ANY WAY.
3. THE CONTRACTOR MUST FIELD CHECK AND VERIFY ALL DIMENSIONS, ELEVATIONS AND EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE CONSULTANT PRIOR TO COMMENCEMENT OF ANY WORK.
4. THE CONTRACTOR SHALL KEEP WORK SITES CLEAN AND FREE OF ALL CONSTRUCTION DEBRIS DURING THE PROCESS OF CONSTRUCTION AND LEAVE THE SITE CLEAN UPON COMPLETION OF WORK OR PORTIONS OF THE WORK.
5. THE CONTRACTOR SHALL OBTAIN APPROVED SERVICE CONNECTION PERMITS FROM THE CITY OF NIAGARA FALLS PUBLIC WORKS BEFORE CONNECTING TO EXISTING SEWER, OR WATER MAIN.
6. THE CONTRACTOR SHALL NOT OPERATE EXISTING MUNICIPAL WATER SYSTEM VALVES. VALVES CAN ONLY BE OPERATED BY THE CITY OF NIAGARA FALLS OPERATIONAL STAFF. THE CITY REQUIRES A MINIMUM OF 48 HOURS WRITTEN NOTICE PRIOR TO ALL WORKS.
7. CONSULTANT MUST APPROVE ALL DEVIATIONS FROM THE WORKING DRAWINGS. THE CONTRACTOR MUST KEEP AN ACCURATE RECORD OF ALL CHANGES FROM THE ORIGINAL INFORMATION SHOWN ON THE CONSTRUCTION DRAWINGS.
8. FEATURES OF CONSTRUCTION NOT FULLY SHOWN ARE OF THE SAME CHARACTER AS THOSE NOTED FOR SIMILAR CONDITIONS.
9. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF THE FOLLOWING:
   - OCCUPATIONAL HEALTH AND SAFETY ACT
   - ONTARIO REGULATION 213/91 - CONSTRUCTION PROJECTS
   - THE ONTARIO BUILDING CODE AND THE NATIONAL BUILDING CODE
   - THE ONTARIO PROVINCIAL STANDARD SPECIFICATIONS / DRAWINGS
   - THE NIAGARA PENINSULA STANDARD CONTRACT DOCUMENTS
10. ALL ELEVATIONS AND DIMENSIONS SHOWN ARE IN METERS, UNLESS NOTED OTHERWISE.
11. PROVIDE APPROPRIATE SHORING FOR TRENCH EXCAVATION IN ACCORDANCE WITH THE LATEST REVISION OF THE OHSA GUIDELINE FOR CONSTRUCTION PROJECTS.
12. SHORING DESIGN FOR TRENCH EXCAVATION (BY OTHERS).
13. MINIMUM HORIZONTAL SEPARATION BETWEEN WATER MAINS AND SEWERS SHALL BE 2.5m. MINIMUM VERTICAL CLEARANCE BETWEEN SEWERS AND WATER MAINS WHICH CROSS IS 500mm.
14. RIGID PIPE TRENCH EXCAVATION AS PER OPSD 802.030 FOR EARTH EXCAVATION AND OPSD 802.033 FOR ROCK EXCAVATION, AS APPLICABLE. PIPE INSTALLATION TO BE WITH CLASS 'B' BEDDING AND GRANULAR TYPE 'A' MATERIAL COMPACTED TO 100% S.P.M.D.D..
15. FLEXIBLE PIPE TRENCH EXCAVATION AS PER OPSD 802.010 FOR EARTH EXCAVATION AND OPSD 802.013 FOR ROCK EXCAVATION, AS APPLICABLE. PIPE INSTALLATION TO BE WITH GRANULAR TYPE 'A' MATERIAL COMPACTED TO 100% S.P.M.D.D.
16. ALL SANITARY SEWER CONNECTIONS SHALL BE WITH PRE-MANUFACTURED TEES AND SHALL BE INSTALLED AT A MINIMUM GRADE OF 2% UNLESS NOTED OTHERWISE.
17. ALL WATER SERVICING TO COMPLY WITH CSA B137.5, ANSI/NSF 14&61, AND CURRENT AWWA STANDARDS.
18. ALL WATER SERVICES TO BE INSTALLED WITH TRACER WIRE.
19. ALL WATER SERVICES TO BE INSTALLED WITH A MINIMUM OF 1.8m COVER. SEWERS TO BE INSTALLED WITH A MINIMUM COVER OF 2.20m AT THE PROPERTY LINE BELOW THE FINAL ROAD GRADE OR AT SUCH HIGHER ELEVATION ONLY AS MAY BE NECESSITATED BY THE LEVEL OF THE MAIN SEWER. ON PRIVATE PROPERTY THE MINIMUM COVER IS TO BE NO LESS THAN 1.2m.
20. GRADING IS NOT TO ADVERSELY AFFECT ADJACENT PROPERTIES.
21. ALL ELEVATIONS ARE TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION. ANY DISCREPANCIES REGARDING THE SURVEY INFORMATION ARE TO BE SUBMITTED TO THE ENGINEER FOR REVIEW.
22. ALL WORK WITHIN MUNICIPAL RIGHT-OF-WAYS REQUIRES ROAD OCCUP. PERMIT.
23. THE CONTRACTOR SHALL ENSURE ALL NEW AND EXISTING MANHOLES / CATCHBASINS / VALVES AND ANY OTHER APPURTENANCE WITHIN THE CONSTRUCTION AREA, TO MATCH FINISHED GRADE, AS REQUIRED.
24. NEW MAINTENANCE HOLES TO CONFORM TO OPSD 701.010 - 701.015 AS APPROPRIATE, WITH TYPICAL MAINTENANCE HOLE BENCHING AS PER OPSD 701.021.
25. PRE-CONSTRUCTION SURVEY TO BE COMPLETED BY CONTRACTOR PRIOR TO COMMENCEMENT OF WORK.
26. REMOVAL OF EXISTING FEATURES OF THE SITE ARE TO BE CARRIED OUT IN ACCORDANCE WITH OPSS 510 AS APPLICABLE.
27. ROAD, PAVED AREAS AND GRASSED AREAS TO BE RESTORED TO THEIR ORIGINAL CONDITION OR AS PER THE CITY OF NIAGARA FALLS STANDARDS FOR ROAD RESTORATION IF EXISTS. TRENCH BACKFILLS WITHIN MUNICIPAL ROADWAYS TO BE WITH FULL DEPTH GRANULAR 'A'.
35. SIDEWALKS AS PER OPSD 310.010. IN LOCATIONS WHERE SIDEWALK IS ADJACENT TO CURB AND GUTTER, SIDEWALK TO BE AS PER OPSD 310.020. SIDEWALKS TO BE 150mm THICK AT DRIVEWAYS AND 125mm THICK AT ALL OTHER AREAS, 30MPa CONCRETE COMPLETE WITH 100mm THICK GRANULAR 'A' BASE COMPACTED TO 100% SPMDD. SIDEWALKS ARE TO MEET THE LATEST CITY OF NIAGARA FALLS STANDARDS AS WELL AS THE LATEST NPSCD FOR TACTILE SURFACES AND ACCESSIBLE SIDEWALK.
36. SEALED COMPACTION TEST REPORTS TO BE PROVIDED BY THE CONTRACTOR THROUGH A THIRD PARTY TESTING AGENCY.
37. PROVIDE SILT FENCE PROTECTION ON ALL NEW AND EXISTING CATCH BASIN COVERS AND AROUND PERIMETER OF AREA OF WORK DURING CONSTRUCTION AND REMOVE UPON COMPLETION.



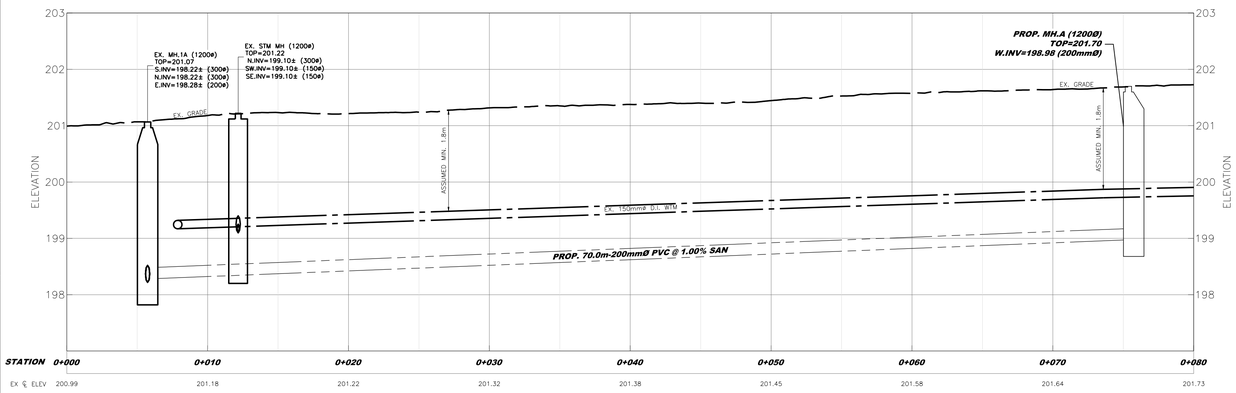
TYP. SEDIMENT TRAP DETAIL

SCALE: 1:25

ROAD RESTORATION DETAIL

SCALE: 1:10

HIGH STREET PROFILE

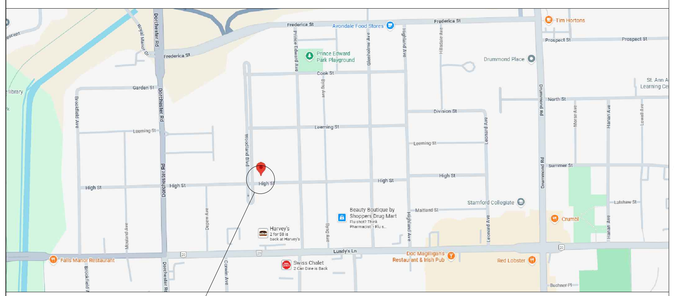


NOTES:

1. THE CONTRACTOR MUST FIELD VERIFY ALL ELEVATIONS AND EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE CONSULTANT PRIOR TO COMMENCEMENT OF ANY WORK.
2. FROST PROTECTION SHALL BE PROVIDED WHERE COVER IS LESS THAN 1.5m AS PER OPSD 1109.030.
3. DISTURBED SURFACES, INCLUDING ASPHALT PAVEMENT, CONCRETE SIDEWALK & GRASS BOULEVARD TO BE RESTORED AS PER CITY OF NIAGARA FALLS STANDARDS.
4. EX WATERMAIN, STORM AND SANITARY SEWER LOCATION, SIZES AND DEPTHS TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
5. ANY DEVIATIONS FROM THE PLANS (I.E SERVICE DIAMETER, MATERIAL) SHALL BE COMMUNICATED TO HALLEX CIVIL ENGINEERING PRIOR TO ANY CONSTRUCTION CONTINUING/COMMENCING..
6. GRANULAR 'A' BEDDING AND COVER AS PER OPSD 802.010.
7. ENSURE MIN 0.5m VERT. SEPARATION BETWEEN CROSSING WATER SERVICES AND SEWERS (TYP. ALL CROSSINGS)
8. ENSURE MIN 2.5m SEPARATION FROM EX. WATERMAIN.
9. FLEXIBLE PIPE TRENCH EXCAVATION AS PER OPSD 802.010 FOR EARTH EXCAVATION AND OPSD 802.013 FOR ROCK EXCAVATION, AS APPLICABLE.
10. CONTRACTOR TO FIELD VERIFY ALL EX. MANHOLE AND CATCHBASIN INVERTS.
11. GENERAL CONTRACTOR TO ENGAGE LOCATE COMPANY TO IDENTIFY ALL BURIED SERVICES BEFORE ANY CONSTRUCTION BEGINS. ANY CONFLICT WITH THE EXISTING UTILITIES ARE TO BE COMMUNICATED TO THE ENGINEER FOR RESOLUTION OF THE CONFLICT.
12. PROVIDE SEDIMENT TRAPS AT ALL CATCHBASINS DURING CONSTRUCTION AS PER TYPICAL DETAIL. REMOVE AFTER COMPLETION OF CONSTRUCTION.
13. BOULEVARD REINSTATEMENT TO BE 100mm TOPSOIL AND SOD.

LEGEND

- EX. SANITARY SEWER
- PR. SANITARY SEWER
- EX. STORM SEWER
- PR. STORM SEWER
- EX. WATER MAIN
- PR. WATER MAIN
- ABANDONED MAIN
- FENCE
- PROPERTY LINE
- EX. CATCHBASIN
- PR. CATCHBASIN
- EX. MANHOLE
- PR. MANHOLE
- EX. VALVE
- PR. VALVE
- FIRE HYDRANT
- UTILITY POLE
- LIGHT STANDARD
- GUY WIRE ANCHOR
- BELL/COGECO PEDESTAL
- GAS METER
- HYDRO METER
- ANCHOR TEE
- 90°/45°/22.5°/11.25° BEND
- CAPPED SERVICE
- BUILDING ENTRANCE



KEY PLAN

SCALE: N.T.S.

NOTES/LEGEND

1. THE POSITION OF POLE LINES, CONDUITS, WATERMAINS, SEWER AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS AND, WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL INFORM THEMSELVES OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

NO.	REVISION	DATE	INIT.
A	ISSUED FOR REVIEW	2026-01-21	CA

DRAFTING	CA
DESIGN	CA
CHECKED BY	AI
APPROVED BY	JH

PRELIMINARY NOT FOR CONSTRUCTION

NiagaraFalls CANADA

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HIGH STREET SANITARY EXTENSION PLAN AND PROFILE DRAWING

5736 WOODLAND BOULEVARD
NIAGARA FALLS, ON

CONSULTANT FILE No.	260117
DATE	2026-01-21
SCALE	Hor : 1:200 m Ver : 1:50 m
REF. No.	
DWG No.	C1
REV.	A