CONTRACTOR TO VERIFY THE EXISTING 1200mmØ STORM SEWER ELEVATION AT THE PROPOSED CROSSING LOCATION PRIOR TO THE CONSTRUCTION OF THE PROPOSED SANITARY SEWER SYSTEM. REPORT ANY DISCREPANCIES WITH THE PROPOSED PIPE CROSSING TO THE ENGINEER BEFORE COMMENCING WITH SITE SEWER WORKS.

CONNECT TO EXISTING SAN MH WITH NEW 200mmØ EXTERNAL DROP STRUCTURE PER OPSD 1003.010. MAINTAIN AND PROTECT EXISTING STRUCTURE, PIPES AND FLOWS. SUPPORT AND PROTECT EX. HYDRO DUCT ADJACENT TO EX.SAN MH IN EXCAVATION.

REFER TO PLAN 117151-GP FOR ADDITIONAL ON-SITE SERVICING INFORMATION

5000 ROBERT GRANT AVENUE

BUILDING 'C' - P1 LEVEL MECHANICAL ROOM

PEDESTRIAN PATHWAY

U/G LIMITS

U/G STRUCTURE LIMITS

UNDERGROUND PARKING STRUCTURE LIMITS

SAN INV=101.50

SAN CAP INV=101.52

SAN MH 05
T/G=104.60
INV.NE=101.31
INV.SW=101.25

250x200 REDUCER
6.1m-200mmØ PVC
DR35 SAN @ 3.1%

5.8m-200mmØ PVC
DR35 SAN @ 1.0%

SAN MH 06
T/G=105.53
INV.NE=101.46
INV.SW=101.45

11.4m-200mmØ PVC
DR35 SAN @ 0.35%

10.3m-200mmØ PVC
DR35 SAN @ 0.35%

SAN MH 02
T/G=104.12
INV.NW=101.16
INV.NE=101.21
INV.SE=101.17

SAN MH 03
T/G=105.30
INV.NW=101.36
INV.NE=101.41
INV.SE=101.37

SAN MH 04
T/G=105.88
INV.NW=101.55

30.4m-200mmØ PVC DR35 SAN @ 0.35%

54.1m-200mmØ PVC DR35 SAN @ 0.35%

35.0m-200mmØ PVC DR35 SAN @ 0.5%

10+000 10+025 10+050 10+075 10+100 10+125

11.0m 4.4m 4.0m 1.6m 5.3m 2.0m 1.9m 1.8m 5.3m 1.2m 9.0m

EX. 250mmØ PVC SAN @ 0.35%

INV=101.07

EX. SANMH
INV.NW=98.61
INV.SW=98.95
INV.SE=101.05
(DROP) INV.SE=98.95

EX. STMMH
INV.NE=99.43
INV.NW=100.32
INV.SE=100.31
INV.SW=99.43

EX. STMMH
INV.NW=101.60
INV.SE=101.70

EX. STMMH
INV.NW=103.03
INV.SE=104.68

8.5m 1.2m 5.6m 6.1m 7.5m 5.2m 0.9m

EX. 250mmØ SAN

ROBERT GRANT AVENUE

CONC. SIDEWALK

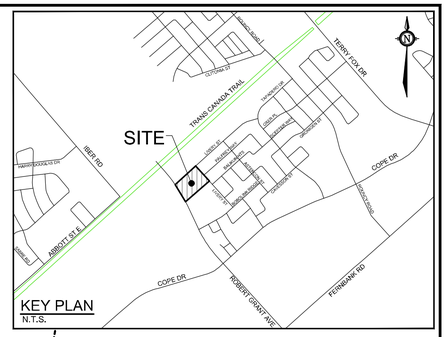
ASPHALT PATH

TOP OF CURB

EDGE OF ASPHALT

APPROX. LIMITS OF R.O.W. TRENCH REINSTATEMENT

MAINTAIN AND PROTECT EXISTING MUNICIPAL INFRASTRUCTURE WITHIN THE R.O.W. DURING ALL PHASES OF CONSTRUCTION. REINSTATE ALL AREAS DISTURBED WITHIN THE MUNICIPAL R.O.W. TO CITY OF OTTAWA STANDARDS.



LEGEND

- SAN MH — PROPOSED SANITARY MANHOLE AND SEWER
- MH-COMB — EXISTING COMBINED MH & SEWER
- OHW — EXISTING OVERHEAD WIRES
- EXISTING CONCRETE CURB
- SANMH — EXISTING SANITARY MANHOLE & SEWER
- HYD — V&VB — EXISTING HYDRANT & VALVE
- EXISTING TREES / VEGETATION
- EX UP — EXISTING UTILITY POLE
- EXISTING FENCE
- 300mmØ WM — EXISTING WATERMAIN
- HYD — EXISTING HYDRANT

GENERAL NOTES:

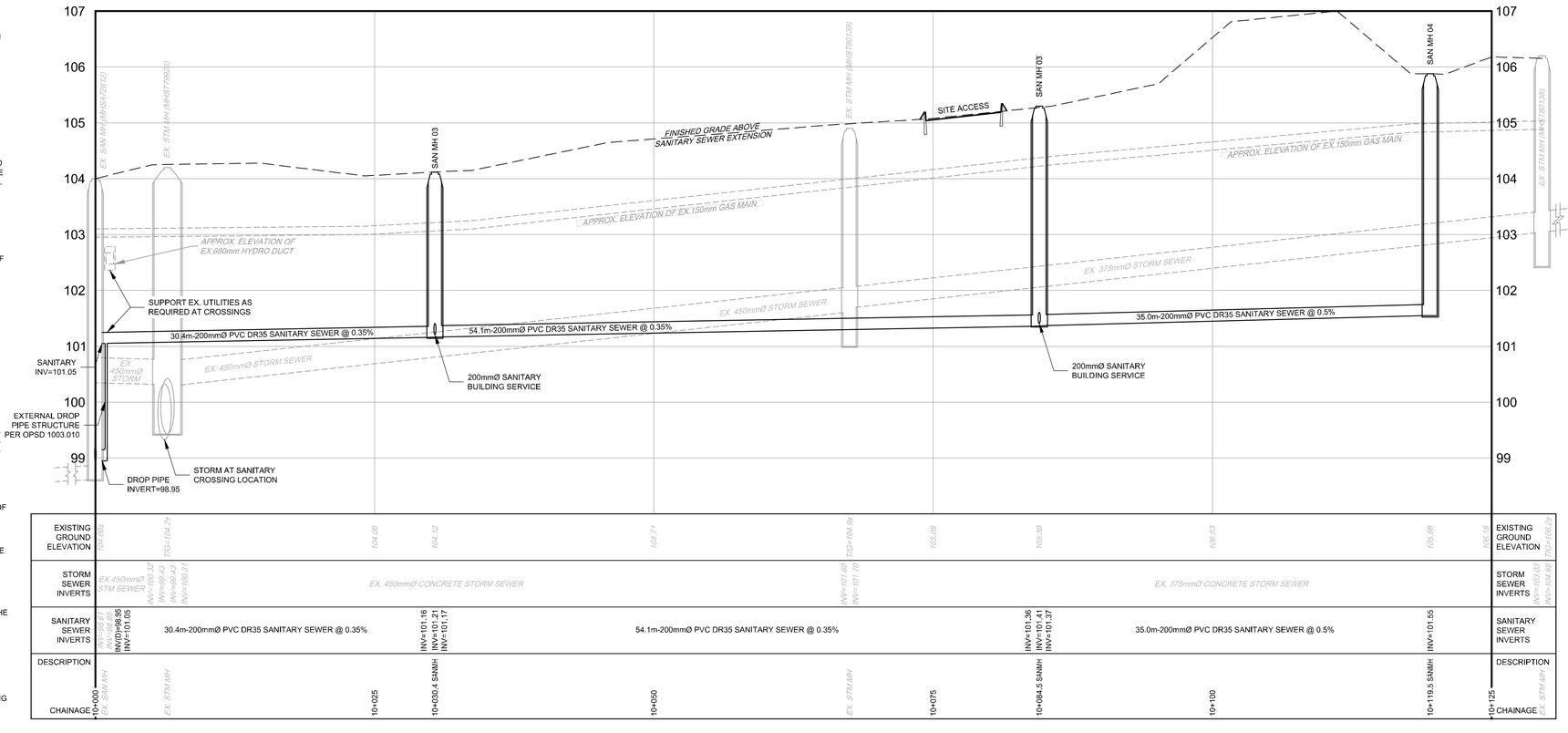
1. COORDINATE AND SCHEDULE ALL WORK WITH OTHER TRADES AND CONTRACTORS.
2. DETERMINE THE EXACT LOCATION, SIZE, MATERIAL AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION. PROTECT AND ASSUME RESPONSIBILITY FOR ALL EXISTING UTILITIES WHETHER OR NOT SHOWN ON THIS DRAWING.
3. OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF OTTAWA BEFORE COMMENCING CONSTRUCTION.
4. BEFORE COMMENCING CONSTRUCTION OBTAIN AND PROVIDE PROOF OF COMPREHENSIVE, ALL RISK AND OPERATIONAL LIABILITY INSURANCE FOR $5,000,000.00. INSURANCE POLICY TO NAME OWNERS, ENGINEERS AND ARCHITECTS AS CO-INSURED.
5. RESTORE ALL DISTURBED AREAS ON-SITE AND OFF-SITE, INCLUDING TRENCHES AND SURFACES ON PUBLIC ROAD ALLOWANCES TO EXISTING CONDITIONS OR BETTER TO THE SATISFACTION OF THE CITY OF OTTAWA AND ENGINEER.
6. REMOVE FROM SITE ALL EXCESS EXCAVATED MATERIAL, ORGANIC MATERIAL AND DEBRIS UNLESS OTHERWISE INSTRUCTED BY ENGINEER. EXCAVATE AND REMOVE FROM SITE ANY CONTAMINATED MATERIAL. ALL CONTAMINATED MATERIAL SHALL BE DISPOSED OF AT A LICENSED LANDFILL FACILITY.
7. ALL ELEVATIONS ARE GEODETIC.
9. REFER TO THE GEOTECHNICAL INVESTIGATION REPORT (NO. PG4562-1, REV. 6, DATED JANUARY 29, 2024) PREPARED BY PATERSON GROUP INC., FOR SUBSURFACE CONDITIONS, CONSTRUCTION RECOMMENDATIONS, AND GEOTECHNICAL INSPECTION REQUIREMENTS. THE GEOTECHNICAL CONSULTANT IS TO REVIEW ON-SITE CONDITIONS AFTER EXCAVATION PRIOR TO PLACEMENT OF THE GRANULAR MATERIAL.
10. REFER TO ARCHITECT'S AND LANDSCAPE ARCHITECT'S DRAWINGS FOR ON-SITE BUILDING AND HARD SURFACE AREAS AND DIMENSIONS.
11. SAW CUT AND KEY GRIND ASPHALT AT ALL ROAD CUTS AND ASPHALT TIE IN POINTS AS PER CITY OF OTTAWA STANDARDS (R10).

SEWER NOTES:

1. SUPPLY AND CONSTRUCT ALL SEWERS AND APPURTENANCES IN ACCORDANCE WITH THE MOST CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS.
2. SPECIFICATIONS:

ITEM	SPEC. No.	REFERENCE
SANITARY MANHOLE (1200mmØ)	701.010	OPSD
SANITARY MH FRAME & COVER	S24 / S25	CITY OF OTTAWA
WATERTIGHT MH FRAME AND COVER	S24.2	CITY OF OTTAWA
SEWER TRENCH	S6	CITY OF OTTAWA
SANITARY SEWER PIPE	PVC DR 35	

3. INSULATE ALL PIPES (SAN/STM) THAT HAVE LESS THAN 2.0m COVER WITH HI-40 INSULATION PER INSULATION DETAIL S35. PROVIDE 150mm CLEARANCE BETWEEN PIPE AND INSULATION.
4. PIPE BEDDING, COVER AND BACKFILL ARE TO BE COMPACTED TO AT LEAST 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY. THE USE OF CLEAR CRUSHED STONE AS A BEDDING LAYER SHALL NOT BE PERMITTED.
5. FLEXIBLE CONNECTIONS ARE REQUIRED FOR CONNECTING PIPES TO MANHOLES (FOR EXAMPLE KOR-N-SEAL, PSX: POSITIVE SEAL AND DURASEAL). THE CONCRETE CRADLE FOR THE PIPE CAN BE ELIMINATED.
6. THE OWNER SHALL REQUIRE THAT THE SITE SERVICING CONTRACTOR PERFORM FIELD TESTS FOR QUALITY CONTROL OF ALL SANITARY SEWERS. LEAKAGE TESTING SHALL BE COMPLETED IN ACCORDANCE WITH OPSS 410.07.16, 410.07.16.04 AND 407.07.24. DYE TESTING IS TO BE COMPLETED ON ALL SANITARY SERVICES TO CONFIRM PROPER CONNECTION TO THE SANITARY SEWER MAIN. THE FIELD TESTS SHALL BE PERFORMED IN THE PRESENCE OF A CERTIFIED PROFESSIONAL ENGINEER WHO SHALL SUBMIT A CERTIFIED COPY OF THE TEST RESULTS.
7. THE CONTRACTOR IS TO TELEVISE (CCTV) ALL PROPOSED SEWERS, 200mmØ OR GREATER PRIOR TO BASE COURSE ASPHALT. UPON COMPLETION OF CONTRACT, THE CONTRACTOR IS RESPONSIBLE TO FLUSH AND CLEAN ALL SEWERS & APPURTENANCES.
8. CONTRACTOR TO PROVIDE THE CONSULTANT WITH A PLAN AND PROFILE DRAWING INDICATING ALL APPLICABLE SERVICING AS-BUILT INFORMATION SHOWN ON THIS PLAN. AS-BUILT INFORMATION MUST INCLUDE: PIPE MATERIAL, SIZES, LENGTHS, SLOPES, INVERT AND T/G ELEVATIONS, STRUCTURE LOCATIONS AND ANY ALIGNMENT CHANGES, ETC.



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