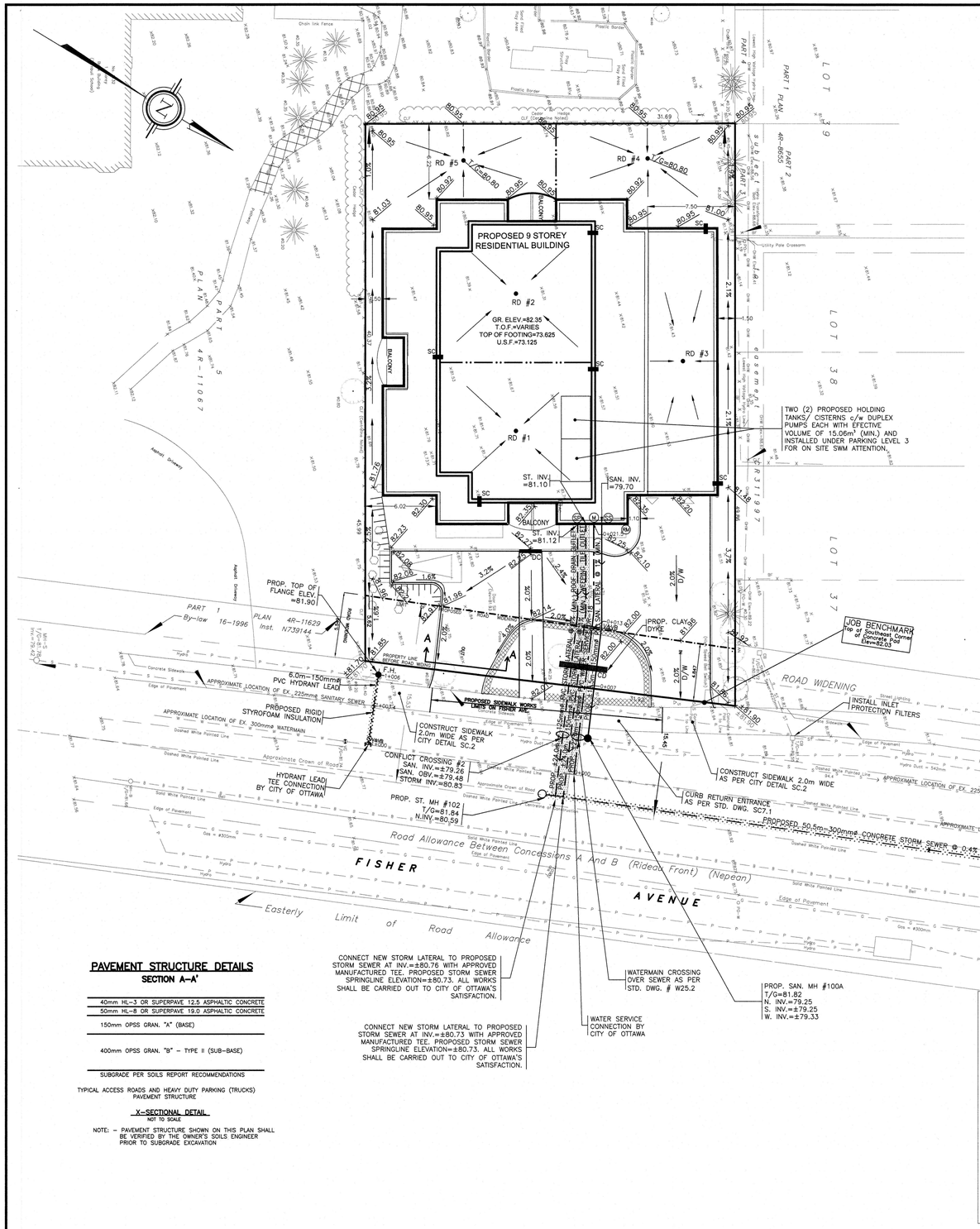


WATER SERVICE PROFILE TABLE FOR 150mmø WATER PIPE

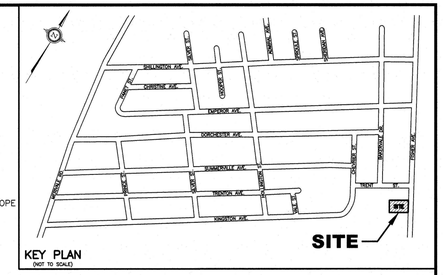
STATION	ITEM DESCRIPTION	EXISTING/PROPOSED GROUND ELEVATION (m)	PROPOSED TOP OF WATER SERVICE (m)
0+000	TEE CONNECTION TO EXISTING WATERMAIN	±81.85	±79.74
0+007	150mmø WATER SERVICE	81.86	79.46
0+013	CURB STOP ASSEMBLY ON R.O.W. AT PROPERTY LIMIT	82.07	79.67
0+021.5	150mmø WATER SERVICE AT BUILDING	82.31	79.91

HYDRANT LEAD PROFILE TABLE 150mmø PVC PIPE

STATION	ITEM DESCRIPTION	EXISTING/PROPOSED GROUND ELEVATION (m)	PROPOSED TOP OF HYDRANT LEAD (m)
1+000	TEE CONNECTION TO EXISTING WATERMAIN	±81.77	79.68
1+003.4	150mmø HYDRANT LEAD CROSSING OVER EXISTING 225mmø SANITARY SEWER	±81.70 (EX. SAN. INV.=±79.32)	80.00
1+006	PROPOSED HYDRANT	81.80	79.40

LEGEND

- F.F. — PROPOSED TOP OF GROUND FLOOR ELEVATION
- T.O.F. — PROPOSED TOP OF CONCRETE FOUNDATION ELEVATION
- U.S.F. — PROPOSED UNDERSIDE OF CONCRETE FOOTING ELEVATION
- D/W — PROPOSED DRIVEWAY
- T/W — PROPOSED TOP OF RETAINING WALL ELEVATION
- S — EXISTING SANITARY SEWER
- ST — EXISTING STORM SEWER
- W — EXISTING WATERMAIN
- PROPOSED 150mmø PVC WATER PIPE DR-18
- PROPOSED 150mmø SANITARY LATERAL @ 2% (MIN.) SLOPE
- PROPOSED 125mmø AND 150mmø STORM LATERAL @ 1% (MIN.) SLOPE AND STORM PIPE (SIZE AS SHOWN)
- PROPOSED SANITARY MANHOLE
- PROPOSED STORM MANHOLE
- CD — PROPOSED CLAY DYKE
- PROPOSED VALVE AND VALVE BOX (V&VB)
- V&VB — PROPOSED NEW FIRE HYDRANT LOCATION C/W NEW V&VB AND 150mmø PVC LEAD (PER CITY DETAIL DWG. No. W18 AND W19)
- PROPOSED RIGID STYROFOAM INSULATION 75mm THICK (MIN.)
- RM — PROPOSED REMOTE METER LOCATION
- M — PROPOSED WATER METER LOCATION
- RD — PROPOSED ROOF DOWNSPOUT LOCATION
- SC — PROPOSED ROOF SCUPPER LOCATION
- SS — PROPOSED SANITARY HOLDING TANK LOCATION C/W SUMP PUMPS (REFER TO NOTE # ALSO)
- SP — PROPOSED WEEPING TILE SUMP PIT LOCATION C/W SUMP PUMPS
- PROPOSED TERRACING 3:1 (MAX.) TO 1 V
- DC — PROPOSED DEPRESSED CURB
- PROPOSED RIGID STYROFOAM INSULATION 50mm THICK (MIN.)



KEY PLAN (NOT TO SCALE)

NOTES:

1. EXISTING SERVICES AND UTILITIES SHOWN ON THIS DRAWING WERE TAKEN FROM THE BEST AVAILABLE RECORDS BUT ARE NOT COMPLETE. CONTRACTOR IS REQUESTED TO CHECK IN THE FIELD FOR LOCATION AND ELEVATION OF PIPES AND CHECK WITH AUTHORITIES AND UTILITIES TO HIS SATISFACTION BEFORE DIGGING.

2. CONTRACTOR IS ADVISED TO COLLECT INFORMATION ON SOIL CONDITIONS AS DEEMED NECESSARY. REFER TO PATERSON GROUP'S REPORT (PO3565-LET.01 REV.#1) DATED MAY 10, 2019 FOR DETAILS.

3. SITING DETAILS FOR THE PROPOSED DWELLING WERE TAKEN FROM THE SITE PLAN (DWG. No. A.001 REV. 1) PREPARED BY ARC ASSOCIATES INC. (DATED MAY 8, 2019).

4. EXISTING HORIZONTAL AND VERTICAL SURVEY DATA SHOWN ON THIS PLAN INCLUDING SITE BENCHMARK, ROAD ELEVATIONS, SEWER INVERT ELEVATIONS AND THE TOPOGRAPHICAL INFORMATION OF THE LOT WERE PROVIDED BY ANNIS, O'SULLIVAN, VOLLEBEKK LTD. AS DEPICTED ON THEIR TOPOGRAPHICAL SURVEY PLAN (JOB No. 12491-11 DATED JANUARY 25, 2012). T.L. MAK ENGINEERING CONSULTANTS LTD. DOES NOT TAKE ANY RESPONSIBILITY FOR THE SURVEY INFORMATION SHOWN HERE.

5. ALL GRADING SHALL BE DONE TO THE SATISFACTION OF THE CITY OF OTTAWA. PROPOSED GRADES FOR THIS SITE ARE A COMPILATION OF INPUT FROM THE OWNER'S ARCHITECT, LANDSCAPE ARCHITECT AND CIVIL ENGINEER.

6. ALL GRADES SHOWN ARE METRIC. EXISTING AND PROPOSED GRADES SHOWN ON THIS DRAWING ARE BASED ON A BENCHMARK PROVIDED BY ANNIS, O'SULLIVAN, VOLLEBEKK LTD. AS PRESENTED ON THEIR TOPOGRAPHICAL SURVEY PLAN.

7. ALL WATERWORKS SHALL BE CONSTRUCTED TO CITY OF OTTAWA'S LATEST REVISED STANDARDS ON APPROVAL BY THE CITY.

8. CONSTRUCT ALL SANITARY AND STORM PIPES IN ACCORDANCE WITH CITY OF OTTAWA'S LATEST REVISED STANDARD OTHERWISE AS PER OPSS AND OPSD SPECIFICATIONS.

9. ALL WORKS CONSTRUCTED BY THE CONTRACTOR SHALL MEET CITY OF OTTAWA'S CURRENT ENGINEERING STANDARDS AND AS PER CITY'S REQUIREMENTS. ALL WATERMAIN SERVICE AND FITTINGS SHALL CONFORM TO APPROVED AWWA AND/OR CSA STANDARDS. WATER SERVICE AND WATERMAIN TRENCH DETAILS AS PER CITY W17 DETAIL.

10. THE CONTRACTOR SHALL CONSTRUCT AND ENSURE THAT THE 150mmø WATER SERVICE ON THIS LOT SHALL HAVE A MINIMUM OF 2.4m OF GROUND COVER. THE WATER SERVICE PIPE MATERIAL SHALL BE PVC CL-150 DR-18 AND CONSTRUCTED IN ACCORDANCE WITH THE LATEST CITY OF OTTAWA STANDARDS.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS TO COMPLETE THE WORKS.

12. EXISTING LOCATION OF FISHER AVENUE WATERMAIN, STORM SEWER AND SANITARY SEWER SHOWN ON THIS PLAN ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY IN THE FIELD TO CONFIRM ITS EXACT LOCATION PRIOR TO EXCAVATION. (SEE NOTE #26 ALSO).

13. PROPOSED SURFACE GRADE SHALL BE 7% (MAX.) WHERE THE GROUND DROPS OFF STEEPLY. TERRACE THE GROUND AT 3H TO 1V (MAX.) AS NECESSARY TO MEET THE CITY'S GRADING REQUIREMENTS.

14. ALL WATER SERVICING WORKS WITHIN THE CITY ROW TO BE CARRIED OUT BY THE CITY. EXCAVATION, BACKFILL AND REINSTATEMENT BY CONTRACTOR.

15. IF WATER SERVICE IS LESS THAN 2.4m FROM SEWER, MANHOLE OR CATCH BASIN, CONTRACTOR IS REQUESTED TO INSULATE BETWEEN THEM WITH S/M RIGID INSULATION (AS PER CITY DETAIL W23).

16. PIPE SIZES SHOWN ON THIS PLAN ARE METRIC.

17. PROPOSED SANITARY AND STORM SERVICE LATERALS SHALL BE PVC-DR-28 OR EQUIVALENT AND CONNECTION TO THE EXISTING SEWER SHALL BE AS PER CITY OF OTTAWA DWG. No. S11 AND S11.1. THE WORKS SHALL BE CARRIED OUT TO THE SATISFACTION OF THE CITY OF OTTAWA.

18. SANITARY AND STORM SEWER SERVICE BENDS AND RISERS USED MUST BE CONSTRUCTED TO THE CITY'S SATISFACTION.

19. a. STORM MHs AND CB/MHs: STRUCTURE AS PER OPDS 701.010 (1,220mm DIA WITH 300mm SUMP); FRAMES AND COVERS AS PER CITY STD. DWG. S24.1 AND S25.

b. SANITARY MHs: STRUCTURE AS PER OPSD 701.010 (1,220mm DIA); BENCHING AS PER OPSD 701.021; FRAMES AND COVERS AS PER CITY STD. DWG. S24 AND S25.

20. THE 125mmø AND 150mmø STORM LATERAL SHALL BE PVC DR-28. THE 150mmø PVC SANITARY LATERAL SHALL BE PVC DR-28. THE NEW 300mmø STORM PIPE SHALL BE CONCRETE CLASS 140-D.

21. PIPE MATERIAL AND INSTALLATION METHODS FOR THE TRENCHING AND OUTLET PIPING AT THE SLOPED AREAS WILL BE SUBJECT TO THE SOILS ENGINEER'S REVIEW AND APPROVAL PRIOR TO CONSTRUCTION DUE TO GEOTECHNICAL CONSIDERATIONS OF THIS SITE. CONSTRUCT CLAY DYKE AT LOCATION SPECIFIED IN THIS DRAWING AND INSTALL AS PER OWNER'S GEOTECHNICAL ENGINEER'S REPORT RECOMMENDATIONS.

22. ASPHALT DRIVEWAY PAVEMENT STRUCTURES SHALL MEET THE MINIMUM REQUIREMENTS AS SET OUT AS PER THE OWNER'S SOILS ENGINEER'S REPORT AND APPROVED BY THE CITY OF OTTAWA. THESE STRUCTURES MUST ALSO BE APPROVED BY THE OWNER'S SOILS ENGINEER ON-SITE PRIOR TO CONSTRUCTION BY THE CONTRACTOR.

23. – SITE SOILS ENGINEER SHALL APPROVE ALL SUBGRADE CONSTRUCTION, FROST TAPERING AND TRANSITION WORKS PRIOR TO GRANULAR PLACEMENT.
– FROST TAPERS FOR CATCH BASINS AND MANHOLES SHOULD BE DONE AS PER OWNER'S GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.
– CATCH BASIN MANHOLES AND MANHOLES SHOULD BE BACKFILLED WITH COMPACTED MATERIALS. A 3:1 FROST TAPER SHOULD BE USED IN THE UPPERMOST 1.8m FOR CATCH BASINS AND MANHOLES IN PAVED AREAS. JOINTS BETWEEN MANHOLE OR CATCH BASIN SECTIONS SHOULD BE WRAPPED WITH A NON-WOVEN GEOTEXTILE. IT IS RECOMMENDED THAT THE LATERAL EXTENT OF THE SUBBASE AND BASE LAYERS NOT BE TERMINATED IN A VERTICAL FASHION IMMEDIATELY BEHIND CURB LINES. A TAPER WITH A GRADE OF 3 (MAX.) HORIZONTAL TO 1 VERTICAL IS RECOMMENDED IN THE SUBGRADE LINE TO MINIMIZE DIFFERENTIAL FROST HEAVE PROBLEMS UNDER SIDEWALKS.

24. BEDDING FOR SEWERS AND WATERMAIN INSTALLATION SHALL BE TYPE 'B' COMPACTED TO 95% DRY PROCTOR DENSITY. FOR THE SEWER LATERALS USE 300mm THICK APPROVED GRANULAR COVER MATERIAL COMPACT TO 95% DRY PROCTOR DENSITY. TRENCH BACKFILL WITH NATIVE MATERIAL AND COMPACT TO 95% DRY PROCTOR DENSITY MINIMUM. NO FROZEN MATERIALS ARE TO BE USED AS BACKFILL IN THE SERVICING TRENCHES.

25. DETAILS OF THE EXISTING SEWERS AND WATERMAIN SHOWN ON FISHER AVENUE FROM THE CITY MAY NOT BE CURRENT. THE CONTRACTOR SHALL REFER TO THE CITY'S SEWER AND WATERMAIN DRAWINGS FOR DETAILS BEFORE DIGGING. THE CONTRACTOR IS ADVISED TO EXCAVATE AND INVESTIGATE THE SEWER ELEVATIONS IN FRONT OF THIS PROPERTY FIRST TO ENSURE THAT 1% (MIN.) PIPE SLOPE OF THE SANITARY AND STORM LATERALS CAN BE ACHIEVED USING THE PROPOSED UNDERSIDE OF CONCRETE FOOTING ELEVATION. IF 1% (MIN.) SLOPE IS NOT POSSIBLE FROM THE BUILDING TO THE SEWER, THEN THE CONTRACTOR SHOULD INFORM THE OWNER'S PROJECT MANAGER AND THE CITY ACCORDINGLY FOR FURTHER DIRECTION.

26. FOR DEVELOPMENT OF THIS SITE, THE CONTRACTOR MUST FIRST CONSTRUCT THE UNDERGROUND SANITARY, STORM AND WATER SERVICES FROM THE SEWER AND WATERMAIN TO THE PROPERTY, PRIOR TO BUILDING CONCRETE FOUNDATION POURING. THE CONTRACTOR SHALL VERIFY SEWER DEPTHS TO ENSURE THAT THE SEWER LATERALS CAN ACHIEVE A SLOPE OF 1% (MIN.)

27. CONSTRUCT A DEPRESSED AND CONTINUOUS CURB/SIDEWALK ACROSS THE NEW PRIVATE APPROACH AS PER STD. DWG. SC7.1 (CURB RETURN AT PRIVATE OR COMMERCIAL ENTRANCE-UNSIGNALIZED). ALL WORKS SHALL BE CARRIED OUT TO THE CITY'S SATISFACTION.

28. INSULATE THE BUILDING SERVICE LATERALS AND SEWERMAINS WHERE GROUND COVER IS LESS THAN 2.0m. FOR WATER SERVICE AND WATERMAINS WHERE GROUND COVER IS LESS THAN 2.4m PROVIDE THERMAL INSULATION AS PER STD DWG W22.

29. WHERE FROST COVER FROM UNDERSIDE OF BUILDING CONCRETE FOOTING TO PROPOSED FINISHED GROUND ELEVATION IS LESS THAN 1.6m, IT IS RECOMMENDED THAT INSULATION (50mm THICK) MINIMUM BE INSTALLED AT THE BUILDING FOOTING AND FOUNDATION TO PROVIDE SUFFICIENT FROST COVER FOR THE FOUNDATION STRUCTURES. THE FOOTINGS WILL NEED TO BE REVIEWED FOR INSULATION BY THE OWNER'S SOILS ENGINEER. EXACT INSULATION REQUIREMENTS SHALL BE AS PER ARC ASSOCIATES INC.'S INSULATION DETAILS SHOWN ON THEIR ARCHITECTURAL DRAWINGS AND CONFIRMED BY THE OWNER'S SITE SOILS ENGINEER.

30. A BACKWATER VALVE MUST BE INSTALLED FOR THE NEW STORM LATERAL AND A FULL PORT BACKWATER VALVE BE INSTALLED FOR THE NEW SANITARY LATERAL SERVICE. THE OWNER'S ARCHITECT AND PLUMBER SHALL CHECK THE CURRENT ONTARIO PLUMBING CODE FOR REQUIREMENTS FOR A BACKWATER VALVE IN THE BUILDING AND AS PER THE MECHANICAL ENGINEER'S DRAWINGS AT THE SANITARY SERVICE LINES.

31. CONCRETE SIDEWALK, DEPRESSED CURB AND DEPRESSED CONCRETE SIDEWALK DETAILS AS PER CITY OF OTTAWA STANDARDS (DWG. No. SC1.1 AND SC1.4). SEE NOTE #27 REGARDING CONCRETE CURB AND CONCRETE SIDEWALK CONSTRUCTION AND REINSTATEMENT SHALL BE DONE TO THE SATISFACTION OF THE CITY OF OTTAWA AND IN ACCORDANCE WITH THE LATEST REVISED CITY ENGINEERING STANDARDS.

32. THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES TO PROVIDE FOR PROTECTION OF THE AREA DRAINAGE SYSTEM AND RECEIVING WATERCOURSES AND/OR STORM SEWER DURING CONSTRUCTION ACTIVITIES. THESE PRACTICES ARE REQUIRED TO ENSURE NO EXPOSED SOIL, SEDIMENT AND/OR ASSOCIATED POLLUTANTS ARE RELEASED TO THE RECEIVING WATERCOURSES. THESE PRACTICES INCLUDE INSTALLATION OF SEDIMENT BARRIERS ON ALL CATCH BASIN AND MAINTENANCE HOLES AND A SILT FENCE BARRIER (AS PER OPSD 219.110 AND ASSOCIATED SPECIFICATIONS) ALONG FISHER AVENUE AND ALL OTHER AREAS THAT SHEET DRAIN OFF SITE. MAINTENANCE HOLE SEDIMENT BARRIERS TO BE AMOCO 4555 NONWOVEN GEOTEXTILE OR APPROVED EQUIVALENT. THE CONTRACTOR ACKNOWLEDGES THAT FAILURE TO IMPLEMENT APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES MAY BE SUBJECT TO PENALTIES IMPOSED BY AN APPLICABLE REGULATORY AGENCY.

33. STORMWATER MANAGEMENT NOTES
- EACH ROOF DRAIN SHALL BE SIZED FOR A RELEASE RATE OF 10 U.S. GAL/MIN. OR 0.63 L/S. THE OWNER'S MECHANICAL ENGINEER SHALL SPECIFY THE REQUIRED ROOF DRAIN TYPE AND MODEL No. AND PROVIDE THE NECESSARY INFORMATION TO THE CITY OF OTTAWA FOR THEIR RECORDS TO ENSURE PROPER RELEASE RATE FOR STORMWATER MANAGEMENT COMPLIANCE.
- ROOF PITCH IS ASSUMED TO HAVE 2% (MIN.) SLOPE.
- ROOF SCUPPERS ARE RECOMMENDED TO BE INSTALLED 0mm ABOVE EDGE OF ROOFTOP ELEVATION FOR EMERGENCY OVERFLOW PURPOSES AT ROOF AREA #1 TO #3 INCLUSIVE.
- SEE STORM DRAINAGE REPORT No. R-818-71 DATED MAY 2019 FOR DETAILS ALSO.
- THE 5 YEAR HIGH WATER LEVEL IS ESTIMATED AT 100mm AT THE ROOF DRAIN.
- THE 100 YEAR HIGH WATER LEVEL IS ESTIMATED AT 150mm AT THE ROOF DRAIN.

34. WATER SERVICE, STORM SEWER LATERAL AND SANITARY SEWER LATERAL ARE THE RESPONSIBILITY OF THE OWNER'S PLUMBER FROM 1m OUTSIDE THE FOUNDATION WALL INTO THE PROPOSED BUILDING UNDER THE LATEST REVISION OF THE ONTARIO PLUMBING CODE.

35. PROPOSED ROOF DRAINS AND SCUPPER LOCATIONS SHOWN ON THIS PLAN SHALL BE REVIEWED BY THE OWNER AND OWNER'S ARCHITECT FOR APPROVAL.

36. THE OWNER'S ARCHITECT AND STRUCTURAL ENGINEER SHALL ENSURE THAT THE ADDITIONAL STORMWATER STORAGE VOLUME FROM STORMWATER MANAGEMENT MEASURES ARE ACCOUNTED FOR IN THE STRUCTURAL DESIGN OF AND WATERPROOFING OF ROOF AREA #1 TO #3 INCLUSIVE AND ANY OF THE SUPPORTING STRUCTURES THAT MAY BE AFFECTED BY THE STORED WATER.

37. THE CONTRACTOR SHALL CONSTRUCT THE PROPOSED FIRE HYDRANT AT THE PROPOSED LOCATION AS SHOWN ON THIS DRAWING C/W INSTALLING THE 150mmø LEAD AND VALVE & VALVE BOX PER CITY DETAIL DWG. No. W19. HYDRANT LOCATION AS PER STD. DWG. W18.

38. INSTALL A CLAY DYKE IN THE SERVICE TRENCH AT THE LOCATION AS SHOWN AND AS PER THE SOILS ENGINEER'S RECOMMENDATIONS.

39. FOR DETAILS OF SITE LIGHTING AND POLE LOCATION, REFER TO THE LATEST REVISED SITE PLAN BY ARC ASSOCIATES INC.

40. IT IS THE RESPONSIBILITY OF THE SITE SERVICES CONTRACTOR TO OBTAIN AND CONSTRUCT THE WORKS TO MEET THE LATEST REVISIONS IN CURRENT CIRCULATION OF THE CITY OF OTTAWA'S ENGINEERING STANDARDS, OPSS & OPSD STANDARDS AND ONTARIO BUILDING/PLUMBING CODES. WHERE THE LATEST REVISION DIFFERS FROM THE REQUIREMENTS SET OUT IN THIS PLAN, THE CONTRACTOR SHALL PRICE THE WORKS TO MEET LATEST REVISED STANDARDS IN HIS PRICE BID FOR THIS PROJECT. THE CONTRACTOR SHALL INFORM THE ENGINEERS OF ANY CHANGES PRIOR TO COMMENCEMENT OF THE WORKS.

41. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY EQUIPMENT, LABOUR AND MATERIALS RELATING TO THE CIVIL WORKS REQUIRED FOR INSTALLATION OF NEW SITE SERVICES. PROVINCIAL HEALTH AND SAFETY REGULATIONS MUST BE FOLLOWED DURING CONSTRUCTION.

42. PROPOSED TOP OF GROUND FLOOR, TOP OF FOUNDATION AND UNDERSIDE OF FOOTING ELEVATIONS SHALL BE REVIEWED AND APPROVED BY ARC ASSOCIATES INC. PRIOR TO CONSTRUCTION.

43. ALL EXISTING HOUSE SEWER LATERALS PRESENTLY SERVICING THIS PROPERTY SHALL BE ABANDONED. THE EXISTING SANITARY SERVICE SHALL BE CAPPED AT THE PROPERTY LINE. BLANK EXISTING WATER SERVICE AT THE 300mm DIA WATERMAIN BY CITY FORCES. ALL WORKS SHALL BE CARRIED OUT TO THE SATISFACTION OF THE CITY OF OTTAWA ENGINEERING STANDARDS AND REQUIREMENTS.

44. ALL EXISTING HOUSE WATER SERVICES PRESENTLY SERVICING THIS PROPERTY SHALL BE ABANDONED AND TO BE CAPPED AT THE WATERMAIN TO THE SATISFACTION OF THE CITY WATER OPERATIONS DEPARTMENT'S STANDARDS AND REQUIREMENTS.

45. ROOF DRAIN #1 TO #3 INCLUSIVE SHALL OUTLET INTO THE DESIGNATED 125mmø PVC STORMWATER PIPE AS SHOWN ON THIS DRAWING. NO BUILDING WEEPING TILE WATER OUTLETTING IS REQUIRED BECAUSE OF SLAB ON GRADE BUILDING STRUCTURE.

46. THE RETAINING WALL TO BE CONSTRUCTED AND MATERIAL TYPE SHALL BE SPECIFIED BY THE OWNER'S ARCHITECT AND/OR HIS STRUCTURAL ENGINEER. ANY RETAINING WALLS BUILT ON THIS LOT EXCEEDING 1.0m IN HEIGHT FROM PROPOSED FINISHED GROUND ELEVATION WILL BE REQUIRED TO BE PREPARED AND CERTIFIED BY THE OWNER'S STRUCTURAL ENGINEER AND APPROVED BY THE CITY PRIOR TO CONSTRUCTION.

47. DETAILS OF STORM SEWER WORKS IN ROW , REFER TO PLAN AND PROFILE DWG. # P-1.

48. INSTALL WATERTIGHT MANHOLE COVER AS PER OPSD 401.050 DETAILS FOR SAN MH#100A.

49. HYDRANT LOCATION AND INSTALLATION AS PER CITY OF OTTAWA STANDARD DWG. # W18 AND W19.

50. THIS LOT GRADING DESIGN PLAN WAS PREPARED FOR THE OWNERS FOR THE PURPOSE OF SITE PLAN APPLICATION ONLY. ALL WORKS CONSTRUCTED BY THE CONTRACTOR SHALL MEET CITY OF OTTAWA'S CURRENT ENGINEERING STANDARDS AND PER CITY'S REQUIREMENTS. THIS GRADING PLAN SHALL NOT BE USED FOR BUILDING CONSTRUCTION LAYOUT PURPOSES. REFER TO THE APPROVED SITE PLAN FOR EXACT DIMENSIONS REGARDING BUILDING LOCATION LAYOUT.

51. NO EXCESS DRAINAGE, DURING AND AFTER CONSTRUCTION, WILL BE DIRECTED TOWARDS THE NEIGHBOURS' PROPERTIES.

52. ALL TREES ON THE RIGHT-OF-WAY ARE TO BE MAINTAINED BEFORE AND AFTER CONSTRUCTION AND ALL TREES WITHIN THE PROPERTY SHALL BE PROTECTED AS PER THE 'MUNICIPAL TREES AND NATURAL AREAS PROTECTION BY-LAWS' AND THE 'URBAN TREES CONSERVATION BY-LAW' AS AMENDED FROM TIME TO TIME.

53. THERE WILL BE NO ALTERATION TO THE EXISTING GRADE AND DRAINAGE PATTERN ON THE PROPERTY LINES.

PAVEMENT STRUCTURE DETAILS

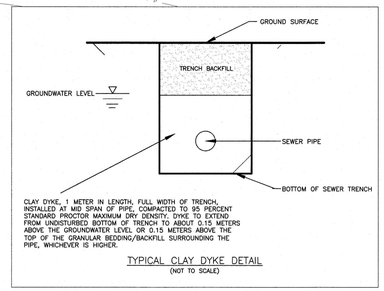
SECTION A-A'

- 40mm HL-3 OR SUPERPAVE 12.5 ASPHALTIC CONCRETE
- 50mm HL-8 OR SUPERPAVE 19.0 ASPHALTIC CONCRETE
- 150mm OPSS GRAN. "A" (BASE)
- 400mm OPSS GRAN. "B" – TYPE II (SUB-BASE)
- SUBGRADE PER SOILS REPORT RECOMMENDATIONS

TYPICAL ACCESS ROADS AND HEAVY DUTY PARKING (TRUCKS) PAVEMENT STRUCTURE

X-SECTIONAL DETAIL
NOT TO SCALE

NOTE: – PAVEMENT STRUCTURE SHOWN ON THIS PLAN SHALL BE VERIFIED BY THE OWNER'S SOILS ENGINEER PRIOR TO SUBGRADE EXCAVATION



CLAY DYKE, 1 METER IN LENGTH, FULL WIDTH OF TRENCH, INSTALLED AT MID SPAN OF PIPE, COMPACTED TO 95 PERCENT STANDARD PROCTOR MAXIMUM DRY DENSITY. DYKE TO EXTEND FROM UNDISTURBED BOTTOM OF TRENCH TO ABOUT 0.15 METERS ABOVE THE GROUNDWATER LEVEL OR 0.15 METERS ABOVE THE TOP OF THE GRANULAR BEDDING/BACKFILL SURROUNDING THE PIPE, WHICHEVER IS HIGHER.

TYPICAL CLAY DYKE DETAIL
(NOT TO SCALE)

NO.	REVISION	DATE	BY

LICENSED PROFESSIONAL ENGINEER — 05/17/19 — TONY L-M. MAK — PROVINCE OF ONTARIO

SCALE
0 2 6 10m
1:200
HORIZONTAL
VERTICAL

DESIGN	T.L.M.
CHECKED	T.L.M.
DRAWN BY	G.U.
CHECKED	T.L.M.
APPROVED	T.L.M.

PROJECT: PROPOSED 9 STORY RESIDENTIAL BUILDING
1110 FISHER AVENUE
PART OF LOT 1,
CONCESSION A (RIDEAU FRONT)
GEOGRAPHIC TOWNSHIP OF NEPEAN
CITY OF OTTAWA

OWNER: PRESTIGE DESIGN & CONSTRUCTION (FISHER) LTD.

PROPOSED GRADING AND SERVICING PLAN

T.L. MAK ENGINEERING CONSULTANTS LTD.
CONSULTING ENGINEERS

PROJECT No.	DATE	DRAWING No.
818-71	MAY 2019	G-1