### **GENERAL NOTES:**

- ALL WORKS AND MATERIALS SHALL CONFORM TO THE LATEST REVISIONS OF THE STANDARDS AND SPECIFICATIONS OF THE CITY OF OTTAWA, ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) AND SPECIFICATIONS (OPSS), WHERE APPLICABLE.
- THE LOCATION OF UTILITIES IS APPROXIMATE ONLY, AND THE EXACT LOCATION SHOULD BE DETERMINED BY CONSULTING THE MUNICIPAL AUTHORITIES AND UTILITY COMPANIES CONCERNED. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE THE LOCATION AND STATUS OF UTILITIES AND SHALL BE RESPONSIBLE FOR ADEQUATE PROTECTION OF PLANT AND EQUIPMENT FROM DAMAGE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ANY SERVICES OR UTILITIES DISTURBED DURING CONSTRUCTION, TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION.
- THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF EXISTING SERVICES PRIOR TO ANY CONSTRUCTION. THE CONTRACTOR SHALL CONFIRM LOCATIONS AND ELEVATIONS OF EXISTING SERVICES AND STRUCTURES TO BE CONNECTED TO AND EXISTING SERVICES THAT MAY BE DAMAGED OR CAUSE CONFLICTS PRIOR TO CONSTRUCTION OF ANY NEW SEWER, WATER AND/OR STORM WATER WORKS. ALL DIMENSIONS SHALL BE CHECKED AND VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES, INTERPRETATIONS, CHANGES AND ADDITIONS TO THESE DRAWINGS MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER. WHEN NOTED AND BEFORE PROCEEDING WITH CONSTRUCTION WORKS. DO NOT CONTINUE CONSTRUCTION IN AREAS WHERE DISCREPANCIES APPEAR UNTIL SUCH DISCREPANCIES HAVE BEEN RESOLVED.
- 4. ALL ELEVATIONS ARE GEODETIC AND UTILIZE METRIC UNITS. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SPECIFIED. ALL DRAWINGS SHOULD NOT BE SCALED BY THE CONTRACTOR. ANY MISSING OR QUESTIONABLE DIMENSIONS ARE TO BE CONFIRMED WITH THE ENGINEER IN WRITING.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED AND BEAR COST OF THE
- 6. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE "OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS", THE GENERAL CONTRACTOR SHALL BE DEEMED TO BE THE CONSTRUCTOR AS DEFINED IN THE ACT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATION, BACKFILL AND REINSTATEMENT OF ALL AREAS DISTURBED DURING CONSTRUCTION TO THE SATISFACTION OF THE ENGINEER, THE CITY OF OTTAWA AND THE AUTHORITY HAVING JURISDICTION.
- 8. ANY AREAS 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.
- 9. THE CONTRACTOR SHALL COMPLY WITH THE CITY OF OTTAWA REQUIREMENTS FOR TRAFFIC CONTROL WHEN WORKING ON CITY STREETS. ALL CONSTRUCTION SIGNAGE MUST CONFORM TO THE M.T.O. MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (LATEST AMENDMENT).
- 10. THE SUPPORT OF ALL UTILITIES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
- 11. THERE WILL BE NO SUBSTITUTION OF MATERIALS UNLESS WRITTEN APPROVAL BY THE ENGINEER HAS BEEN OBTAINED.
- 12. EXCESS EXCAVATED MATERIAL SHALL BE REMOVED FROM THE SITE.
- 13. THE SITE LAYOUT IS THE RESPONSIBILITY OF THE CONTRACTOR. AS-BUILT SITE SERVICING & GRADING DRAWINGS SHALL BE MAINTAINED ON SITE BY THE CONTRACTOR.
- 14. THE CONTRACTOR WILL BE RESPONSIBLE FOR ADDITIONAL BEDDING OR ADDITIONAL STRENGTH PIPE IF THE MAXIMUM TRENCH WIDTH, AS SPECIFIED BY OPSD, IS EXCEEDED.
- 15. ALL DISTURBED AREAS TO BE REINSTATED TO EQUAL TO BETTER CONDITION. ALL NEW WORK SHALL TIE TO EXISTING.
- 16. ALL EDGES OF DISTURBED PAVEMENT SHALL BE SAW CUT TO FORM A NEAT AND STRAIGHT LINE PRIOR TO PLACING NEW PAVEMENT.
- 17. THE CONTRACTOR SHALL APPRAISE HIS/HER SELF OF ALL SURFACE AND SUBSURFACE CONDITIONS TO BE ENCOUNTERED AND SHALL CARRY OUT THEIR OWN TEST PITS AS REQUIRED TO MAKE THEIR OWN INDEPENDENT ASSESSMENT OF GROUND CONDITIONS. THE CONTRACTOR SHALL NOT MAKE ANY CLAIM FOR ANY EXTRA COST DUE TO ANY SUCH GROUND CONDITIONS VARYING FROM THOSE ANTICIPATED BY THE CONTRACTOR.
- 18. DO NOT CONSTRUCT USING DRAWINGS THAT ARE NOT MARKED "ISSUED FOR CONSTRUCTION".
- 19. FOR TOPOGRAPHICAL INFORMATION REFER TO PLAN PREPARED BY ANNIS, O'SULLIVAN, VOLLEBEKK LTD. DATED JULY 20, 2018.
- 20. FOR GEOTECHNICAL INFORMATION REFER TO REPORT PREPARED BY PATERSON GROUP INC. DATED MAY 9, 2019, REPORT #PG3908-2 (REVISION 4).
- 21. CIVIL DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, LANDSCAPE AND LEGAL DRAWINGS.
- 22. 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.
- 23. THE CONTRACTOR IS RESPONSIBLE FOR AND SHALL PROVIDE FOR DEWATERING, SUPPORT AND PROTECTION OF EXCAVATIONS AND TRENCHING AS WELL AS RELEASE OF ANY PUMPED GROUND WATER IN A CONTROLLED AND APPROVED MANNER. THE CONTRACTOR SHALL APPLY FOR A PERMIT TO TAKE WATER FROM THE MINISTRY OF ENVIRONMENT IF MORE THAN 50,000 LITRES PER/DAY OF GROUNDWATER IS PUMPED FOR CONSTRUCTION ACTIVITIES.
- 24. SEWER AND WATERMAIN TRENCHES TO HAVE CLAY SEALS INSTALLED AT MINIMUM SPACING OF 60m SPACING AS NOTED IN THE GEOTECHNICAL REPORT. CLAY SEALS TO BE AS PER CITY OF OTTAWA STANDARDS S8. CLAY SEAL, SHALL BE 1.5m LONG AND EXTEND FROM THE FROST LINE FULLY PENETRATE THE BEDDING, SUB-BEDDING AND COVER MATERIAL.

### SANITARY SEWER NOTES

- ALL SANITARY SEWER MATERIALS AND INSTALLATION SHALL CONFORM TO THE LATEST REVISIONS OF THE STANDARDS AND SPECIFICATIONS OF THE CITY OF OTTAWA, ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) AND SPECIFICATIONS (OPSS).
- 2. ALL SANITARY SEWERS SHALL BE PVC SDR 35, IPEX "RING-TITE" (OR EQUIVALENT), AS PER CSA STANDARD 8182.2 OR LATEST AMENDMENT, UNLESS OTHERWISE NOTED.
- 3. SANITARY SEWER TRENCH AND BEDDING SHALL BE AS PER CITY OF OTTAWA STD. S6 AND S7, CLASS 'B BEDDING AND GEOTECHNICAL RECOMMENDATIONS. A MINIMUM OF 150mm GRANULAR 'A' SHOULD BE PLACED FOR BEDDING. COVER MATERIAL TO EXTEND FROM SPRINGLINE TO 300mm ABOVE OBVERT OF THE PIPE AND SHOULD CONSIST OF OPSS GRANULAR 'A' FOR PVC PIPE.
- 4. SANITARY SEWER MANHOLES SHALL BE BENCHED AS PER OPSD 701.021. SANITARY MANHOLE FRAME AND COVERS SHALL BE AS PER CITY OF OTTAWA STD. S24 AND S25. SAFETY PLATFORMS SHALL BE AS PER OPSD 404.02. DROP STRUCTURES SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA SPECIFICATIONS AND OPSD 1003.01
- THE CONTRACTOR SHALL CONDUCT INFILTRATION/EXFILTRATION (AS PER CURRENT OPSS) TESTING ON ALL NEWLY INSTALLED SANITARY SEWERS. THE TEST SHALL BE PERFORMED IMMEDIATELY AFTER SEWER INSTALLATION AND VIEWED BY THE ENGINEER.
- 6. THE CONTRACTOR SHALL CONDUCT CCTV INSPECTION OF ALL NEWLY INSTALLED SANITARY SEWERS AND EXISTING SEWERS CONNECTED TO. THE TEST SHALL BE PERFORMED IMMEDIATELY AFTER SEWERS INSTALLED.
- THE CONTRACTOR SHALL CONSTRUCT FLEXIBLE SANITARY SEWERS IN ACCORDANCE WITH OPSD 802.010 AND 802.013. DURING CONSTRUCTION, THE CONTRACTOR SHALL PROTECT THE PIPES FROM HEAVY CONSTRUCTION EQUIPMENT. BEDDING AND BACKFILL SHALL BE COMPACTED TO A MINIMUM OF 95% SPMDD.
- 8. ALL SANITARY BUILDING DRAINS TO BE EQUIPPED WITH SANITARY BACKWATER VALVES INSTALLED PER CITY OF OTTAWA STANDARD DRAWING S14.1. REFER TO MECHANICAL DRAWINGS.
- 9. WITHIN THE FROST ZONE, THE BACKFILL IN THE SERVICE TRENCHES SHOULD MATCH THE SOIL ON SIDES TO MINIMIZE DIFFERENTIAL FROST HEAVING IN THE SUBGRADE.
- 10. MINIMUM SOIL COVER TO BE 2.0m TO PROTECT SEWERS FROM FROST DAMAGE. IN AREAS WHERE ADEQUATE FROST COVER CANNOT BE ACHIEVED, EQUIVALENT THERMAL INSULATION TO BE INSTALLED AS PER OPSD 1109.030.
- 11. ALL SERVICES TO BE CONSTRUCTED TO 1.0m OUTSIDE FOUNDATION WALLS.

### STORM SEWER NOTES

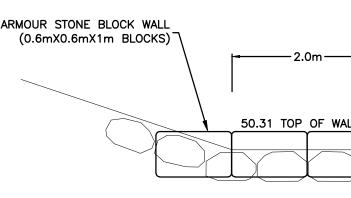
OPSD 514.010

- 1. ALL STORM SEWER MATERIALS AND INSTALLATION SHALL CONFORM TO THE LATEST REVISIONS OF THE STANDARDS AND SPECIFICATIONS OF THE CITY OF OTTAWA, ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) AND SPECIFICATIONS (OPSS).
- 2. ALL REINFORCED CONCRETE STORM SEWER PIPE SHALL BE IN ACCORDANCE WITH CSA A257.2 (LATEST AMENDMENT). ALL NON-REINFORCED CONCRETE STORM SEWER PIPE SHALL BE IN ACCORDANCE WITH CSA A257.L (LATEST AMENDMENT). PIPE SHALL BE JOINTED WITH STD. RUBBER GASKETS AS PER CSA A257.3 (LATEST AMENDMENT).
- 3. ALL PVC STORM SEWERS ARE TO BE SDR 35 APPROVED PER C.S.A. B182.2 OR LATEST AMENDMENT, UNLESS OTHERWISE SPECIFIED.
- 4. THE CONTRACTOR SHALL CONSTRUCT FLEXIBLE STORM SEWERS IN ACCORDANCE WITH OPSD 802.010 AND 802.013. RIGID STORM PIPE SHALL BE CONSTRUCTED IN ACCORDANCE WITH OPSD 802.030. DURING CONSTRUCTION THE CONTRACTOR SHALL PROTECT THE PIPES FROM HEAVY CONSTRUCTION EQUIPMENT. BEDDING AND BACKFILL SHALL BE COMPACTED TO A MINIMUM OF 95% SPMDD.
- 5. SEWER BEDDING AS PER CITY STANDARD S6, S7 AND GEOTECHNICAL RECOMMENDATIONS.
- MINIMIZE DIFFERENTIAL FROST HEAVING IN THE SUBGRADE 8. MINIMUM SOIL COVER TO BE 2.1M TO PROTECT SEWERS FROM FROST DAMAGE. IN AREAS WHERE ADEQUATE FROST COVER CANNOT BE ACHIEVED, EQUIVALENT THERMAL INSULATION TO BE INSTALLED AS PER
- 9. ALL STORM SERVICES TO BE EQUIPPED WITH APPROVED BACKWATER VALVES. REFER TO MECHANICAL DRAWINGS.
- 10. STORM MANHOLE FRAME AND COVERS SHALL BE AS PER CITY OF OTTAWA STD. S24.1 AND S25.
- 11. SAFETY PLATFORMS SHALL BE IN ACCORDANCE WITH OPSD 404.02.
- 12. DROP STRUCTURES SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA SPECIFICATIONS AND OPSD 1003.01.
- 300mm SUMP. FOR STORM SEWERS 900mm AND OVER USE BENCHING IN ACCORDANCE WITH OPSD 701.021.
- 705.020, RESPECTIVELY. FRAMES AND GRATE SHALL BE AS PER CITY OF OTTAWA STD. S19.
- 15. CURB INLET TYPE CATCH BASIN (CICB), IF SPECIFIED, SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA
- 16. SINGLE AND DOUBLE CATCHBASIN LEADS SHALL BE 200mm AND 250mm DIA (MIN) RESPECTIVELY, 1.0% SLOPE (MIN.) UNLESS OTHERWISE NOTED.
- 17. ALL CATCHBASINS AND CATCHBASIN MANHOLES SHALL HAVE SUMPS WITH 300mm DEPTH, UNLESS
- 19. THE STORM SEWER CLASSES HAVE BEEN DESIGNED BASED ON BEDDING CONDITIONS SPECIFIED. WHERE THE SPECIFIED TRENCH WIDTH IS EXCEEDED, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ADDITIONAL BEDDING, A DIFFERENT TYPE OF BEDDING OR A HIGHER PIPE STRENGTH AT HIS OWN EXPENSE AND SHALL ALSO BE RESPONSIBLE FOR EXTRA TEMPORARY AND/OR PERMANENT REPAIRS MADE NECESSARY BY THE WIDENED TRENCH.
- 20. THE CONTRACTOR SHALL CONDUCT CCTV INSPECTION OF ALL NEWLY INSTALLED STORM SEWERS AND EXISTING SEWERS CONNECTED TO. THE TEST SHALL BE PERFORMED IMMEDIATELY AFTER SEWERS INSTALLED.
- 21. ALL SERVICES TO BE CONSTRUCTED TO 1.0m OUTSIDE FOUNDATION WALLS.
- 22. FOR AREA DRAIN SPECIFICATIONS REFER TO MECHANICAL PLANS

### WATERMAIN NOTES

OTHERWISE NOTED.

- 1. ALL WATERMAIN MATERIALS AND INSTALLATION SHALL CONFORM TO THE LATEST REVISIONS OF THE STANDARDS AND SPECIFICATIONS OF THE CITY OF OTTAWA, ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) AND SPECIFICATIONS (OPSS).
- 2. NO WORK SHALL COMMENCE UNLESS A CITY WATER WORKS INSPECTOR IS ON SITE. WATERMAIN CONNECTIONS BY CITY OF OTTAWA FORCES WITH ALL EXCAVATION BACKFILL AND ROAD REINSTATEMENT BY CONTRACTOR
- 3. ALL PVC WATERMAINS SHALL BE EQUAL TO AWWA C-900 CLASS 150, DR 18, OR APPROVED EQUAL.
- UNLESS OTHERWISE SPECIFIED. BEDDING AND COVER MATERIAL SHALL BE SPECIFIED BY PROJECT GEOTECHNICAL ENGINEER.
- 5. ALL PVC WATERMAINS SHALL BE INSTALLED WITH A 10 GAUGE STRANDED COPPER TWU OR RWU TRACER WIRE IN ACCORDANCE WITH CITY OF OTTAWA STD. W36.
- 6. CATHODIC PROTECTION IS REQUIRED ON ALL METALLIC FITTINGS AS PER CITY OF OTTAWA STD. W40 AND
- 7. VALVE BOXES SHALL BE INSTALLED AS PER CITY OF OTTAWA DETAIL W24.
- 8. ALL FIRE HYDRANTS TO BE INSTALLED AS PER CITY STANDARD W19 AND LOCATED AS PER CITY STANDARD W18 AND/OR CITY STANDARD CROSS SECTIONS. FIRE HYDRANT ISOLATION VALVE TO BE 1.0m FROM WARERMAIN AS PER CITY OF OTTAWA STANDARDS W19 UNLESS OTHERWISW SHOWN.
- 9. ALL WATERMAINS TO BE INSTALLED AT MINIMUM COVER OF 2.4m.
- IS LESS THAN HALF THAT RECOMMENDED BY THE MANUFACTURER.
- 12. DISINFECTION AND TESTING OF WATERMAIN TO BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS.
- FOR TESTING AND DISINFECTION OF THE WATERMAN.
- 14. INSULATION FOR WATERMAIN CROSSING OVER AND BELOW SEWER SHALL BE IN ACCORDANCE WITH CITY OF
- 15. WHERE THE SEPARATION BETWEEN SERVICES AND OPEN STRUCTURE IS LESS THAN 1.2m, WATER SERVICES
- ARE TO BE INSULATED AS PER CITY OF OTTAWA STD. W23.
- 0.25M FOR CROSSING OVER THE SEWER, AS PER CITY STD W25.2. FOR CROSSING UNDER SEWER, THE MINIMUM VERTICAL CLEARANCE IS 0.50M AS PER CITY STD. W25. FOR CROSSING UNDER SEWER, ADEQUATE STRUCTURAL SUPPORT FOR THE SEWERS IS REQUIRED TO PREVENT EXCESSIVE DEFLECTION OF JOINTS AND SETTLING. THE LENGTH OF WATER PIPE SHALL BE CENTERED AT THE POINT OF CROSSING SO THAT THE JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE SEWER.
- 17. ALL SERVICES TO BE CONSTRUCTED TO 1.0m OUTSIDE FOUNDATION WALLS.



48.63 INVERT OF PONI



13. STORM SEWER MANHOLES SERVING LOCAL SEWERS LESS THAN 900MM SHALL BE CONSTRUCTED WITH A

# 14. SINGLE AND DOUBLE CATCHBASINS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD. S1. AND OPSD

STD. S3. AND GRATE SHALL BE AS PER CITY OF OTTAWA STD. S22 AND S23, UNLESS OTHERWISE NOTED.

18. CONTRACTOR SHALL ENSURE THAT CATCHBASINS ARE INSTALLED AT THE LOW POINT OF SAG CURB WORKS.

4. WATERMAINS TRENCH AND BEDDING SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD W17,

10. THRUST BLOCKS AND RESTRAINT AS PER CITY OF OTTAWA DWGS: W25.3 AND W25.4, W25.5 AND W25.6. 11. IF WATERMAIN MUST BE DEFLECTED TO MEET ALIGNMENT, ENSURE THAT THE AMOUNT OF DEFLECTION USED

13. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY CAPS, PLUGS AND BLOW-OFFS AND NOZZLES REQUIRED

OTTAWA STD. W25 AND W25.2, RESPECTIVELY, WHERE WATERMAN COVER IS LESS THAN 2.4m.

# 16. AS PER CITY GUIDELINE. THE MINIMUM VERTICAL CLEARANCE BETWEEN WATERMAIN AND SEWER / UTILITY IS



- 6. ALL SERVICE CONNECTIONS TO BE CONSTRUCTED AS PER CITY STANDARD S11 & S11.1.
- 7. WITHIN THE FROST ZONE, THE BACKFILL IN THE SERVICE TRENCHES SHOULD MATCH THE SOIL ON SIDES TO

- - 2. ALL GROUND SURFACES SHALL BE EVENLY GRADED WITHOUT PONDING AREAS AND WITHOUT LOW POINTS
  - 3. CONTRACTOR TO ADJUST EXISTING CATCH BASINS, MANHOLES, FIRE HYDRANTS, VALVE CHAMBERS AND VALVE

  - 6. CONTOURS BASED ON 2015 LIDAR DATA (DRAPE 2015) FROM LAND INVENTORY ONTARIO. SPOT ELEVATIONS SHOWN ON GRADING PLANS ARE FROM TOPOGRAPHICAL INFORMATION REFER TO PLAN PREPARED BY ANNIS, O'SULLIVAN, VOLLEBEKK LTD. DATED JULY 20, 2018



1. ALL TOPSOIL AND ORGANIC MATERIAL SHALL BE STRIPPED WITHIN THE ROAD ALLOWANCE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

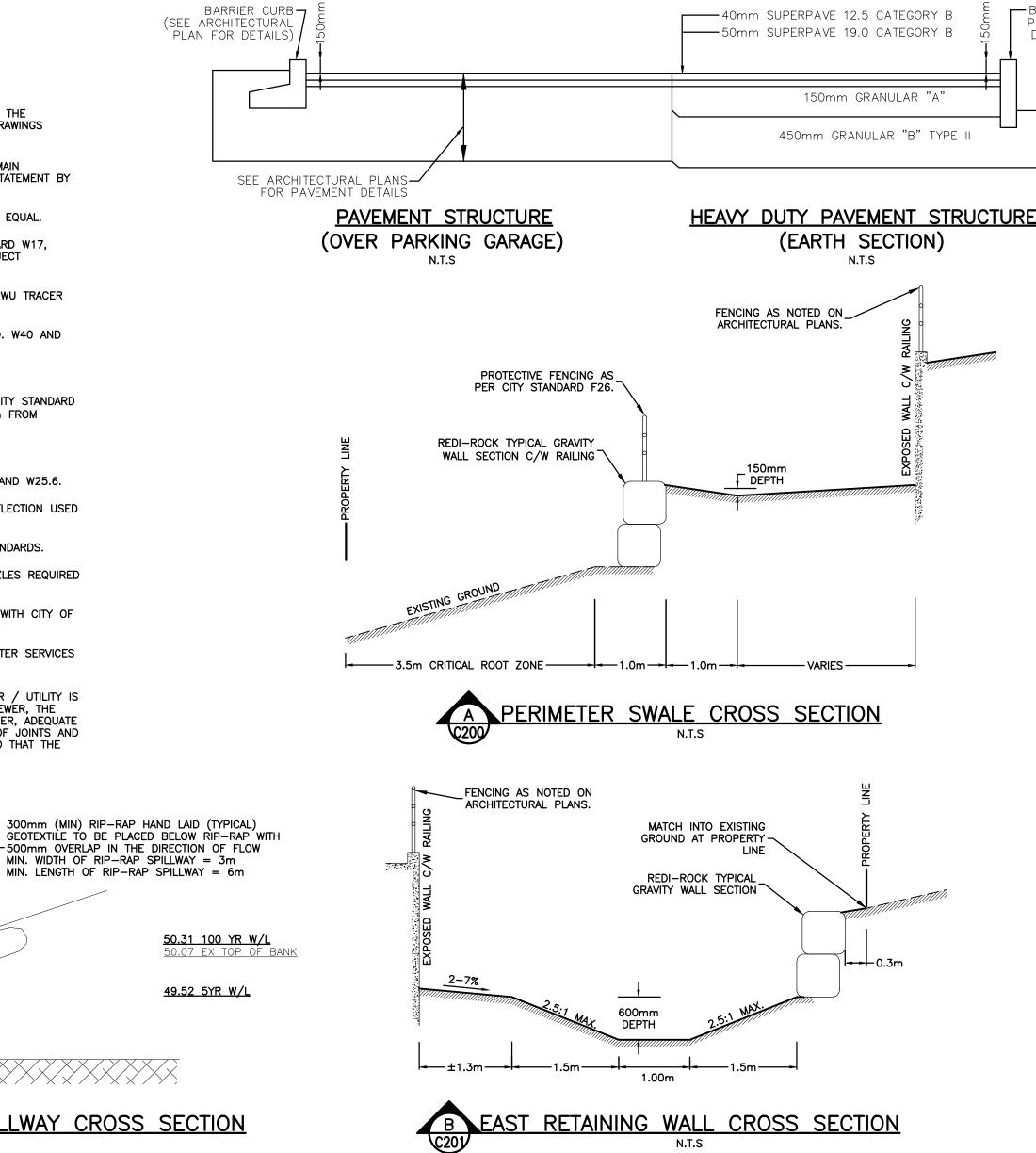
### 2. CONCRETE CURB SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD. SCI.1.1(BARRIER CURB) AND SC1.3 (MOUNTABLE CURB), AS NOTED. PROVISION SHALL BE MADE FOR CURB DEPRESSIONS AT SIDEWALKS AND DRIVEWAYS

- 3. ROAD SUBDRAINS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD. R1. SUBDRAINS SHALL BE 6M IN LENGTH AT CATCHBASINS. SUBDRAINS SHALL BE INSTALLED BOTH SIDES AT LOWPOINTS AND ON THE HIGH SIDE AT FLOWBY CATCHBASINS
- 4. PAVEMENT REINSTATEMENT FOR SERVICE AND UTILITY CUTS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD. R10 AND OPSD 509.010, OPSS 310.
- 5. GRANULAR "A" SHALL BE PLACED TO A MINIMUM THICKNESS OF 300MM AROUND ALL STRUCTURES WITHIN PAVEMENT AREA.
- 6. ALL GRANULAR FOR ROADS SHALL BE COMPACTED TO A MINIMUM OF 98% STANDARD PROCTOR DENSITY.
- 7. ASPHALT WEAR COURSE SHALL NOT BE PLACED UNTIL THE VIDEO INSPECTION OF SEWERS & NECESSARY REPAIRS HAVE BEEN CARRIED OUT TO THE SATISFACTION OF THE ENGINEER.
- 8. SUB- EXCAVATE SOFT AREAS AND FILL WITH GRANULAR 'B' COMPACTED IN MAXIMUM 300MM LIFTS.

9. ALL SERVICES TO BE CONSTRUCTED TO 1.0m OUTSIDE FOUNDATION WALLS

### **GENERAL NOTES FOR GRADING**

- 1. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT GRADING AROUND HYDRANTS TRANSFORMERS, AND UTILITY PEDESTALS, ETC., MEET CURRENT CITY OF OTTAWA, HYDRO AND UTILITY COMPANY REQUIREMENTS.
- EXCEPT WHERE APPROVED SWALE OR CATCH BASIN OUTLETS ARE PROVIDED.
- BOXES TO FINAL GRADE AS REQUIRED.
- 4. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING FOUNDATIONS OF ADJACENT BUILDINGS DURING EXCAVATION AND CONSTRUCTION PERIOD.
- 5. GRADING IN GRASSED AREAS WILL BE BETWEEN 2% TO 7%. GRADES IN EXCESS OF 7% WILL REQUIRE A MAXIMUM 3:1 TERRACING OR RETAINING WALL.



HEAVY DUTY PAVEMENT STRUCTURE FOR NEW ACCESS LANES OVER EARTH SHALL BE AS FOLLOWS: 40mm HL-3 OR SUPERPAVE (PG) 58-34 12.5 ASPHALTIC CONC 50mm HL-8 OR SUPERPAVE (PG) 58-34 19.0 ASPHALTIC CONC. 150mm BASE - OPSS GRANULAR A CRUSHED STONE 400mm SUBBASE - OPSS GRANULAR B TYPE II SUBGRADE - EITHER FILL, IN SITU SOIL OR OPSS GRANUALR B TYPE I OR II

HEAVY DUTY PAVEMENT STRUCTURE FOR NEW ACCESS LANES AREAS OVER PARKING STRUCTURES SHALL BE AS FOLLOWS: 40mm HL-3 OR SUPERPAVE (PG) 58-34 12.5 ASPHALTIC CONC. 50mm HL-8 OR SUPERPAVE (PG) 58-34 19.0 ASPHALTIC CONC. 150mm BASE - OPSS GRANULAR A CRUSHED STONE 100mm SUBBASE – OPSS GRANULAR B TYPE II BELOW GRANULAR B REFER TO ARCHITECTURAL PLANS

LIGHT DUTY PAVEMENT STRUCTURE FOR NEW PARKING OVER EARTH SHALL BE AS FOLLOWS: 300mm SUBBASE – OPSS GRANULAR B TYPE II SUBGRADE - EITHER FILL, IN SITU SOIL OR OPSS GRANUALR B TYPE I OR II

AREAS OVER PARKING STRUCTURES SHALL BE AS FOLLOWS: 100mm SUBBASE – OPSS GRANULAR B TYPE II BELOW GRANULAR B REFER TO ARCHITECTURAL PLAN



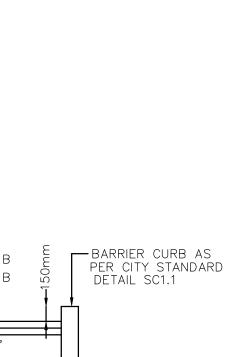
### ASPHALT PAVEMENT (OVER EARTH)

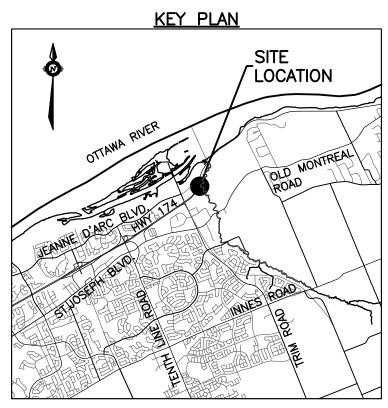
### ASPHALT PAVEMENT (OVER PARKING STRUCTURE). REFER TO ARCHITECTURAL PLANS

50mm HL-3 OR SUPERPAVE (PG) 58-34 12.5 ASPHALTIC CONC 150mm BASE - OPSS GRANULAR A CRUSHED STONE

### LIGHT DUTY PAVEMENT STRUCTURE FOR NEW ACCESS LANES

50mm HL-3 OR SUPERPAVE (PG) 58-34 12.5 ASPHALTIC CONC. 150mm BASE - OPSS GRANULAR A CRUSHED STONE





### EXISTING LEGEND

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**O** SAN MH 104

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OVERHEAD WIRES UTILITY POLE LIGHT STANDARD CATCHBASIN CATCHBASIN ELBOW CATCHBASIN TEE AREA DRAIN TOP OF GRATE GAS METER MANHOLE (SANITARY OR STORM) GAS MAIN VALVE AND VALVE BOX VALVE AND VALVE CHAMBER FIRE HYDRANT EX.250mmø SAN \_\_\_\_\_ STORM SEWER \_\_\_\_\_EX.300mmø\_STM\_\_\_\_\_\_SANITARY SEWER EX.200mmø\_WM\_\_\_\_\_WATERMAIN TREES \_\_\_\_\_X \_\_\_\_\_X \_\_\_\_\_ FENCE

### ORIGINAL GROUND ELEVATION EXISTING CONTOUR OVERLAND FLOW ROUTE

PROPERTY LINE

## SANITARY SEWER \_ \_\_\_\_ 200mmø \_STM\_ \_\_\_ STORM SEWER

\_\_\_\_\_200mmø\_WATERMAIN\_\_\_\_\_ WATERMAIN CLAY SEAL STORM MANHOLE SANITARY MANHOLE CATCHBASIN CATCHBASIN ELBOW CATCHBASIN TEE DECK DRAIN (CAPPED AT SURFACE) AREA DRAIN AND DECK DRAIN ROOF DRAIN VALVE AND VALVE BOX VALVE AND VALVE CHAMBER (W3) FIRE HYDRANT 45° WATERMAIN BEND 22.5" WATERMAIN BEND 11.25° WATERMAIN BEND WATERMAIN TEE (MAIN BRANCH) WATERMAIN CROSS WATERMAIN REDUCER WATER METER REMOTE WATER METER READER SIAMESE CONNECTION FLOOR ELEVATION GARAGE FLOOR SLAB ELEVATION PARKING LEVEL FLOOR ELEVATION SLOPE AND DIRECTION OF FLOW FINAL GRADE HIGH POINT TERRACING TOP OF GRATE ELEVATION TOP OF FLANGE OVERLAND FLOW ROUTE PHASING LIMITS SILT FENCE BARRIER CURB (SC1.1) DEPRESSED BARRIER CURB LOCATION SWALE AND DIRECTION OF FLOW RETAINING WALL BUILDING ENTRY LOCATION STRUCTURE TO BE ADJUSTED

STRUCTURE TO BE RELOCATED

### TOPOGRAPHIC INFORMATION PROVIDED BY ANNIS, O'SULLIVAN, VOLLEBEKK LTD. DATED JULY 20, 2018

JOB BENCHMARK PROVIDED BY ANNIS, O'SULLIVAN, VOLLEBEKK LTD. NCC MONUMENT 01919680184 MTM-NAD83 ZONE 9 NORTHING=5040610.15 EASTING=384736.57 ELEVATION = 52.68

ARCHITECTURE DE PAYSAGE Landscape architect

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SCEAU Seal

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## PETRIE'S LANDING I -PHASES 3-5

EMPLACEMENT Locatio OTTAWA, ON.

OUVRAGE Project

NO PROJET NO OTT-00247308-A0

NO RÉVISION DATE (aa.mm.j ISSUED FOR REVIEW 18.08.03 ISSUED FOR SITE PLAN APPROVAL 18.09.14 ISSUED FOR CLIENT REVIEW 19.04.05 ISSUED FOR SITE PLAN APPROVAL 19.05.10 ISSUED FOR SITE PLAN APPROVAL 19.05.22 6 ISSUED FOR SPA-CITY COMMENTS 19.07.22

DESSINÉ PAR Drawn by	VÉRIFIÉ PAR Checked by B.THOMAS
DATE (aa.mm.jj) 18.07.18	ÉCHELLE Scale AS NOTED
TITRE DU DESSIN Drawing Title	

AS NOTED

# Detail Sheet

RÉVISION Revision

# NO. DESSIN Dwg Number **C700** #14602

# GRS= P1= 3.0% <u>\_ Н.Р. \_</u> լին դիր դիր դիր T/G= T/F= \_\_\_\_\_ · · · \_\_\_\_ · · · \_\_\_\_\_ ·