GENERAL NOTES AND SPECIFICATIONS

- 1. ALL MATERIALS AND CONSTRUCTION METHODS TO BE IN ACCORDANCE WITH OPS AND CITY OF OTTAWA STANDARD SPECIFICATIONS AND DRAWINGS AND OPSD SUPPLEMENT, ONTARIO PROVINCIAL STANDARDS WILL APPLY WHERE NO CITY STANDARDS ARE AVAILABLE.
- 2. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED AND BEAR COST OF SAME INCLUDING WATER PERMIT AND ASSOCIATED COSTS.
- 3. SERVICE AND UTILITY LOCATIONS ARE APPROXIMATE. CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF EXISTING SERVICES AND UTILITIES PRIOR TO CONSTRUCTION, CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING LOCATES FROM ALL UTILITY COMPANIES TO LOCATE EXISTING UTILITIES PRIOR TO EXCAVATION. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTION AND REINSTATEMENT.
- 4. ALL DISTURBED AREAS SHALL BE REINSTATED TO EQUAL OR BETTER CONDITION TO THE SATISFACTION OF THE ENGINEER & THE CITY. PAVEMENT REINSTATEMENT FOR SERVICE AND UTILITY CUTS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD R10, AND OPSD 509.010, AND OPSS 310.
- 5. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE "OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATION FOR CONSTRUCTION PROJECTS". THE GENERAL CONTRACTOR SHALL BE DEEMED TO BE THE CONSTRUCTOR AS DEFINED IN THE ACT.
- 6. THE CONTRACTOR SHALL SUBMIT AN EROSION AND SEDIMENTATION CONTROL PLAN WHICH WILL IMPLEMENT BEST MANAGEMENT PRACTICES TO PROVIDE PROTECTION FOR RECEIVING STORM SEWERS OR DRAINAGE DURING CONSTRUCTION ACTIVITIES. THIS PLAN SHALL INCLUDE BUT NOT BE LIMITED TO FILTER CLOTH ON CATCH BASINS, STRAW BALE CHECK DAMS AND SEDIMENT CONTROLS AROUND ALL DISTURBED AREAS. DEWATERING SHALL BE PUMPED INTO SEDIMENT TRAPS.
- 7. SITE PLAN SP-1 PREPARED BY M. DAVID BLAKELY ARCHITECT INC. DATED JULY 12, 2021.
- 8. TOPOGRAPHIC SURVEY SUPPLIED BY ANNIS O'SULLIVAN VOLLEBEKK LTD. DATED SEPTEMBER 9, 2011
- 9. LANDSCAPE ARCHITECT PLAN PREPARED BY XXXX . REFER TO ORIGINAL LANDSCAPE ARCHITECT PLAN FOR ALL LANDSCAPING FEATURES (ie. TREES, WALKWAYS, PARK DETAILS, NOISE BARRIERS,
- 10. GEOTECHNICAL INVESTIGATION PG5398-1 PREPARED BY PATERSON GROUP DATED JULY 14, 2020. GEOTECHNICAL INFORMATION PRESENTED ON THESE DRAWINGS MAY BE INTERPOLATED FROM THE ORIGINAL REPORT. REFER TO ORIGINAL GEOTECHNICAL REPORT FOR ADDITIONAL DETAILS AND TO VERIFY ASSUMPTIONS MADE HEREIN.
- 11. STREET LIGHTING TO CITY OF OTTAWA STANDARDS.
- 12. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED. DIMENSIONS SHALL BE CHECKED AND VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES TO BE REPORTED IMMEDIATELY TO ENGINEER.
- 13. THERE WILL BE NO SUBSTITUTION OF MATERIALS UNLESS PRIOR WRITTEN APPROVAL BY THE CONTRACT ADMINISTRATOR AND DIRECTOR OF ENGINEERING HAS BEEN OBTAINED.
- 14. HERITAGE OPERATIONS UNIT OF THE ONTARIO MINISTRY OF CULTURE TO BE NOTIFIED IF DEEPLY BURRIED ARCHEOLOGICAL REMAINS ARE FOUND ON THE PROPERTY DURING CONSTRUCTION ACTIVITIES.

ROADWORKS

- 1. ALL TOPSOIL AND ORGANIC MATERIAL TO BE STRIPPED FROM WITHIN THE FULL RIGHT OF WAY PRIOR TO CONSTRUCTION.
- 2. SUB-EXCAVATE SOFT AREAS & FILL WITH GRANULAR 'B' COMPACTED IN 0.30m LAYERS.
- 3. ALL GRANULAR FOR ROADS SHALL BE COMPACTED TO A MINIMUM OF 100% STANDARD PROCTOR MAXIMUM DRY DENSITY (SPMDD).
- 4. ROAD SUBDRAINS SHALL BE CONSTRUCTED AS PER CITY OF OTTAWA STANDARD R1.
- 5. ASPHALT WEAR COURSE SHALL NOT BE PLACED UNTIL THE VIDEO INSPECTION OF SEWERS & NECESSARY REPAIRS HAVE BEEN CARRIED OUT TO THE SATISFACTION OF THE CONSULTANT.
- 6. CONTRACTOR TO OBTAIN A ROAD OCCUPANCY PERMIT 48 HOURS PRIOR TO COMMENCING ANY WORK WITHIN THE MUNICIPAL ROAD ALLOWANCE IF REQUIRED BY THE MUNICIPALITY. ALL WORK ON THE MUNICIPAL RIGHT OF WAY AND EASEMENTS TO BE INSPECTED BY
- 7. PAVEMENT REINSTATEMENT FOR SERVICE AND UTILITY CUTS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD R10, AND OPSD 509.010, AND OPSS 310.

THE MUNICIPALITY PRIOR TO BACKFILLING.

- 8. CONCRETE CURBS SHALL BE CONSTRUCTED AS PER CITY STANDARD SC1.1 AND SC1.3 (BARRIER OR MOUNTABLE CURB AS SHOWN ON DRAWINGS).
- 9. CONCRETE SIDEWALKS SHALL BE CONSTRUCTED AS PER CITY
- 10. PAVEMENT CONSTRUCTION AS PER GEOTECHNICAL INVESTIGATION

PG5398-1 PREPARED BY PATERSON GROUP DATED JULY 14, 2020...

CAR ONLY PARKING AREAS 50mm HL-3 OR SUPERPAVE 12.5 150mm OPSS GRANULAR A BASE

STANDARDS SC3 AND SC1.4.

300mm OPSS GRANULAR B TYPE II ACCESS LANES 40mm HL-3 OR SUPERPAVE 12.5 50mm HL-8 OR SUPERPAVE 19.0 150mm OPSS GRANULAR A BASE

450mm OPSS GRANULAR B TYPE II

WATER SUPPLY SERVICING

- 1. THE CONTRACTOR SHALL CONSTRUCT WATERMAINS, WATER SERVICES, CONNECTIONS & APPURTENANCES AS PER CITY OF OTTAWA SPECIFICATIONS & SHALL CO-ORDINATE AND PAY ALL RELATED COSTS INCLUDING THE COST OF CONNECTION, INSPECTION & DISINFECTION BY CITY PERSONNEL.
- 2. WATERMAIN PIPE MATERIAL SHALL BE PVC CL.150 DR18. DEFLECTION OF WATERMAIN PIPE IS NOT TO EXCEED 1/2 OF THAT SPECIFIED BY THE MANUFACTURER. PVC WATERMAINS TO BE BE INSTALLED WITH TRACER WIRE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD W36.
- 3. WATER SERVICES ARE TO BE PEX PIPE AS PER CITY OF OTTAWA STANDARD W26 (UNLESS OTHERWISE NOTED). WATER SERVICE TO EXTEND 2.0M BEYOND PROPERTY LINE. STAND POST TO BE INSTALLED AT PROPERTY LINE.
- 4. FIRE HYDRANTS TO BE INSTALLED AS PER CITY OF OTTAWA STANDARDS W18 AND W19.
- 5. WATER VALVES TO BE INSTALLED AS PER CITY OF OTTAWA STANDARD W24.

- 6. PROPOSED UNITS TO BE EQUIPPED WITH PRESSURE REDUCING VALVES (PRV'S) AS PER THE ONTARIO BUILDING CODE.
- 7. WATERMAIN TRENCH AND BEDDING SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD. W17 UNLESS OTHERWISE SPECIFIED. BEDDING AND COVER MATERIAL TO BE SPECIFIED BY PROJECT GEOTECHNICAL CONSULTANT. WHERE BEDDING IS LOCATED WITHIN THE FIRM GREY SILTY CLAY, THE THICKNESS OF THE BEDDING MATERIAL SHOULD BE INCREASED TO A MINIMUM OF 300mm.
- 8. SERVICE CONNECTIONS SHALL BE INSTALLED A MINIMUM OF 2400mm FROM ANY CATCHBASIN, MANHOLE, OR OBJECT THAT MAY CONTRIBUTE TO FREEZING, THERMAL INSULATION SHALL BE INSTALLED ON ALL PROPOSED CB'S ON THE W/M STREET SIDE WHERE 2400mm SEPARATION CANNOT BE ACHIEVED.(AS PER CITY OF OTTAWA W22 & W23)
- 9. CATHODIC PROTECTION TO BE SUPPLIED ON METALIC FITTINGS AS PER CITY OF OTTAWA W40 AND W42.
- 10. THRUST BLOCKS TO BE INSTALLED AS PER CITY OF OTTAWA STANDARDS W25.3 AND W25.4 FOR SOILS 100 kPa OR GREATER. FOR SOILS LESS THAN 99 kPa THRUST BLOCK SIZING SHALL BE DETERMINED BY THE GEOTECHNICAL CONSULTANT AT THE TIME OF
- 11. WATERMAIN TO HAVE MIN. 2.4m COVER. WHERE WATERMAIN COVER IS LESS THAN 2.4m, INSULATION TO BE SUPPLIED IN ACCORDANCE WITH CITY STANDARD W22.
- 12. WATERMAIN CROSSINGS ABOVE AND BELOW SEWERS TO BE INSTALLED AS PER CITY OF OTTAWA STANDARD W25 AND W25.2.

STORM AND SANITARY SEWERS

- 1. SANITARY SEWERS 375mm DIA. OR SMALLER SHALL BE PVC SDR35. SANITARY SEWERS LARGER THAN 375mm SHALL BE CONCRETE CSA A 257.2 CLASS 100-D AS PER OPSD 807.010 UNLESS OTHERWISE
- STORM SEWERS 375mm DIA. OR SMALLER SHALL BE PVC SDR 35. STORM SEWERS LARGER THAN 375mm DIA. SHALL BE CONCRETE CSA A 257.2 CLASS 100-D AS PER OPSD 807.010 UNLESS OTHERWISE SPECIFIED.
- 3. ALL STORM AND SANITARY SEWER BEDDING SHALL BE INSTALLED AS PER CITY OF OTTAWA STANDARDS S6 AND S7, CLASS "B" BEDDING, UNLESS OTHERWISE NOTED. SUITABLE BEDDING AND COVER MATERIAL TO BE SPECIFIED BY GEOTECHNICAL CONSULTANT. WHERE BEDDING IS LOCATED WITHIN THE FIRM GREY SILTY CLAY, THE THICKNESS OF THE BEDDING MATERIAL SHOULD BE INCREASED TO A MINIMUM OF 300mm.
- 4. STORM AND SANITARY MANHOLES SHALL BE 1200mm DIAMETER IN ACCORDANCE WITH OPSD-701.01 (UNLESS OTHERWISE NOTED) c/w FRAME AND COVER AS PER CITY OF OTTAWA S24 AND S25, ALL STORM MANHOLES WITH SEWERS 900mm DIA SEWERS AND OVER IN SIZE SHALL BE BENCHED. ALL OTHERS SHALL BE COMPLETED WITH 300mm SUMPS AS PER CITY STANDARDS.
- 5. ALL SEWERS CONSTRUCTED WITH GRADES 0.50% OR LESS, TO BE INSTALLED WITH LASER AND CHECKED WITH LEVEL INSTRUMENT PRIOR TO BACKFILLING.
- 6. FOR STORM SEWER INSTALLATION (EXCLUDING CB LEADS) THE MINIMUM DEPTH OF COVER OVER THE CROWN OF THE SEWER IS 2.0m. FOR SANITARY SEWERS THE MINIMUM DEPTH OF COVER IS 2.5m OVER PIPE OBVERT, WHERE MINIMUM COVER IS NOT PROVIDED, INSULATION TO BE SUPPLIED IN ACCORDANCE WITH CITY STANDARD W22.
- 7. SAFETY PLATFORMS SHALL BE INSTALLED IN ACCORDANCE WITH
- 8. DROP STRUCTURES TO BE INSTALLED AS PER CITY OF OTTAWA SPECIFICATIONS AND OPSD 1003.010
- 9. ALL STORM AND SANITARY SERVICES TO BE EQUIPPED WITH APPROVED BACKWATER VALVES.
- 10. STORM AND SANITARY SERVICE LATERALS TO BE SDR 28 INSTALLED AT MIN. 1.0% SLOPE. SINGLE STORM SERVICES TO BE 200mmØ, SINGLE SANITARY SERVICES TO BE 150mmØ. SERVICES TO EXTEND 2.0m BEYOND PROPERTY LINE.
- 11. CATCH BASINS SHALL BE IN ACCORDANCE WITH CITY STANDARDS c/w FRAME AND GRATE, REAR YARD CB'S SHALL BE AS PER S19.1. STREET CB'S AS PER S2 AND S19, AND CURB INLET CB'S AS PER S3, S22 AND S23, PROVIDE 150mm ADJUSTED SPACERS, ALL CATCH BASINS SHALL HAVE SUMPS (600mm DEEP). STREET CATCH BASIN LEADS SHALL BE 200mm DIA (MIN) PVC SDR 35 AT 1.0% GRADE WHERE NOT OTHERWISE SHOWN ON PLAN, CATCH BASINS WILL BE INSTALLED WITH INLET CONTROL DEVICES (ICD) AS PER ICD SCHEDULE ON STORM DRAINAGE PLAN.
- 12. STREET CATCH BASINS TO BE INSTALLED c/w 150mmØ SUBDRAINS 3m LONG IN FOUR ORTHOGONAL DIRECTIONS OR LONGITUDINALLY WHEN PLACED ALONG A CURB, AND AT AN ELEVATION OF 300mm BELOW SUBGRADE LEVEL.
- 13. REAR LOT PERFORATED PIPE TO BE INSTALLED AS PER CITY OF OTTAWA STANDARDS S29. REAR LOT STRUCTURES TO BE INSTALLED AS PER CITY OF OTTAWA STANDARD S30 AND S31.
- 14. CLAY SEALS TO BE INSTALLED AS PER CITY STANDARD DRAWING NO. S8. THE SEALS SHOULD BE AT LEAST 1.5m LONG (IN THE TRENCH DIRECTION) AND SHOULD EXTEND FROM TRENCH WALL TO TRENCH WALL. THE SEALS SHOULD EXTEND FROM THE FROST LINE AND FULLY PENETRATE THE BEDDING, SUBBEDDING AND COVER MATERIAL. THE BARRIERS SHOULD CONSIST OF RELATIVELY DRY AND COMPACTABLE BROWN SILTY CLAY PLACED IN MAXIMUM 225mm THICK LOOSE LIFTS AND COMPACTED TO A MINIMUM OF 95% OF THE SPMDD. THE CLAY SEALS SHOULD BE PLACED AT THE SITE BOUNDARIES AND AT STRATEGIC LOCATIONS AT NO MORE THAN 60m INTERVALS IN THE SERVICE TRENCHES. FOR DETAILS REFER TO GEOTECHNICAL INVESTIGATION PG5398-1 PREPARED BY PATERSON GROUP DATED JULY 14, 2020...
- 15. GRANULAR "A" SHALL BE PLACED TO A MINIMUM THICKNESS OF 300 mm AROUND ALL STRUCTURES WITHIN PAVEMENT AREA AND COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY.
- 16. CONTRACTOR SHALL PERFORM VIDEO INSPECTION OF ALL STORM AND SANITARY SEWERS. A COPY OF THE VIDEO AND INSPECTION REPORT SHALL BE SUBMITTED TO THE CONSULTANT AND THE CITY WASTEWATER BRANCH FOR REVIEW.
- 17. PROPOSED IPEX TEMPEST HF ICDS ARE TO HAVE CIRCULAR ORIFICES AS SPECIFIED AND ARE REQUIRED TO BE VERTICAL SLIDING TYPE WITH FLOATABLE TRAP.

GRADING

- 5. ALL GRANULAR BASE & SUB BASE COURSE MATERIALS SHALL BE COMPACTED TO 100% STANDARD PROCTOR MAX. DRY DENSITY.
- 6. SUB-EXCAVATE SOFT AREAS & FILL WITH GRANULAR 'B' COMPACTED IN 0.15m LAYERS.
- 7. ALL DISTURBED GRASSED AREAS SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER, WITH SOD ON MIN. 100mm TOPSOIL. THE RELOCATION OF TREES AND SHRUBS SHALL BE SUBJECT TO APPROVAL BY THE PROJECT LANDSCAPE ARCHITECT
- 8. 100 YEAR PONDING DEPTH TO BE 0.35m (MAXIMUM).

9. EMBANKMENTS TO BE SLOPED AT MIN. 3:1, UNLESS OTHERWISE

- 10. ALL SWALES TO BE MIN. 0.15m DEEP WITH MIN. 3:1 SIDE SLOPES UNLESS OTHERWISE NOTED. PERFORATED SUBDRAIN IS TO BE INSTALLED IN SWALES WHERE THE LONGITUDINAL SLOPE IS LESS
- 11. ALL ROOF DOWNSPOUTS TO DISCHARGE TO THE GROUND ONTO SPLASH PADS AND SHALL NOT BE DIRECTED TO THE STORM SEWER, OR THE BUILDING FOUNDATION DRAIN.
- 12. TOP OF GRATE (T/G) ELEVATIONS FOR ALL STREET CATCHBASINS SHOWN ON PLANS REFER TO THE ELEVATION AT EDGE OF PAVEMENT, OR GUTTERLINE WHERE APPLICABLE.
- 13. ALL RETAINING WALLS GREATER THAN 1.0m IN HEIGHT ARE TO BE DESIGNED, APPROVED, AND STAMPED BY STRUCTURAL ENGINEER.
- 14. FENCES OR RAILINGS ARE REQUIRED FOR RETAINING WALLS GREATER THAN 0.60m IN HEIGHT.
- 15. EXCESS EXCAVATED MATERIAL SHALL BE REMOVED FROM THE
- 16. ALL NECESSARY CLEARING AND GRUBBING SHALL BE COMPLETED BY THE CONTRACTOR. REVIEW WITH CONTRACT ADMINISTRATOR AND THE CITY OF OTTAWA PRIOR TO TREE CUTTING.
- 17. REFER TO DRAWING EC-1 FOR EROSION AND SEDIMENT CONTROL DETAILS.

Best Management Practices

CONTRACTOR TO PROVIDE EROSION AND SEDIMENT CONTROLS (BEST MANAGEMENT PRACTICES) DURING CONSTRUCTION OF THIS PROJECT.

EROSION MUST BE MINIMIZED AND SEDIMENTS MUST BE REMOVED FROM CONSTRUCTION SITE RUN-OFF IN ORDER TO PROTECT DOWNSTREAM AREAS, DURING ALL CONSTRUCTION, EROSION AND SEDIMENTATION SHOULD BE CONTROLLED BY THE FOLLOWING TECHNIQUES:

- LIMIT THE EXTENT OF EXPOSED SOILS AT ANY GIVEN TIME.
- 2 REVEGETATE EXPOSED AREAS AND SLOPES AS SOON AS POSSIBLE
- 3. MINIMIZE AREA TO BE CLEARED AND GRUBBED.
- 4. PROTECT EXPOSED SLOPES WITH PLASTIC OR SYNTHETIC MULCHES.
- BASINS AND CATCH BASIN MANHOLES AND ON ALL EXISTING CATCH BASINS THAT WILL RECEIVE RUN-OFF FROM THE SITE. 6. A SILT FENCE SHALL BE INSTALLED AROUND THE PERIMETER OF ALL AND ANY

INSTALL FILTER CLOTH BETWEEN FRAME AND COVER ON ALL PROPOSED CATCH

- STOCKPILES OF MATERIAL TO BE USED OR REMOVED FROM SITE. (LOCATION TO
- A VISUAL INSPECTION SHALL BE DONE DAILY ON SEDIMENT CONTROL MEASURES AND CLEANED OF ANY ACCUMULATED SILT AS REQUIRED. THE DEPOSITS WILL BE DISPOSED OFF SITE AS PER THE REQUIREMENTS OF THE CONTRACT.
- SEDIMENT CONTROL BARRIERS MAY ONLY BE REMOVED TEMPORARILY WITH APPROVAL OF CONTRACT ADMINISTRATOR TO ACCOMMODATE CONSTRUCTION OPERATIONS, ALL AFFECTED BARRIERS MUST BE REINSTATED AT NIGHT WHEN CONSTRUCTION IS COMPLETED. NO REMOVAL WILL OCCUR IF THERE IS A SIGNIFICANT RAINFALL EVENT ANTICIPATED (>10mm) UNLESS A NEW DEVICE HAS BEEN INSTALLED TO PROTECT THE EXISTING STORM AND SANITARY SEWER SYSTEMS.
- 9. NO REFUELING OR CLEANING OF EQUIPMENT IS PERMITTED NEAR ANY EXISTING
- 10. CONTRACTOR SHALL REMOVE SEDIMENT CONTROL MEASURES WHEN, IN THE OPINION OF THE CONTRACT ADMINISTRATOR. THE MEASURE(S) IS NO LONGER REQUIRED, NO CONTROL MEASURES SHALL BE PERMANENTLEY REMOVED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE CONTRACT
- 11. THE CONTRACTOR SHALL PERIODICALLY, OR WHEN REQUESTED BY THE CONTRACT ADMINISTRATOR, CLEAN OUT ACCUMULATED SEDIMENTS AS

ADMINISTRATOR.

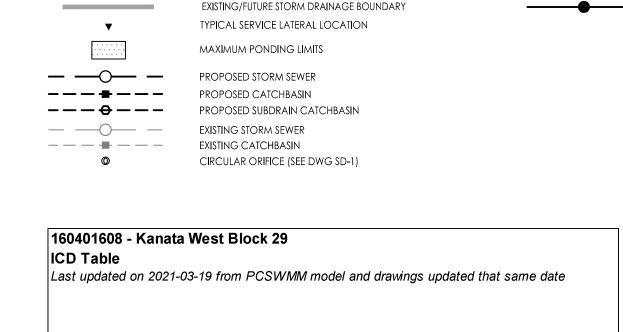
12. THE CONTRACTOR SHALL IMMEDIATELY REPORT TO THE ENGINEER ANY ACCIDENTAL DISCHARGES OF SEDIMENT MATERIAL INTO THE WATERCOURSE. APPROPRIATE RESPONSE MEASURES, INCLUDING ANY REPAIRS TO EXISTING CONTROL MEASURES OR THE IMPLEMENTATION OF ADDITIONAL CONTROL MEASURES, SHALL BE CARRIED OUT BY THE CONTRACTOR WITHOUT DELAY.

GRADING SERVICING ORIGINAL GROUND ELEVATION PROPOSED WATERMAIN PROPOSED ELEVATION PROPOSED VALVE AND VALVE BOX 2.0% FLOW DIRECTION AND GRADE PROPOSED FIRE HYDRANT FF=99.99 FINISHED FIRST FLOOR ELEVATION PROPOSED SANITARY SEWER TOP OF FOUNDATION WALL ELEVATION TF=99.84 PROPOSED STORM SEWER USF=97.14 UNDERSIDE OF FOOTING ELEVATION PROPOSED CATCHBASIN NUMBER OF RISERS PROPOSED SUBDRAIN CATCHBASIN TERRACING 3:1 SLOPE MAXIMUM EXISTING WATERMAIN (UNLESS OTHERWISE SHOWN) EXISTING VALVE AND VALVE BOX _ . . . _ . . . _ . . . _ PROPOSED SWALE EXISTING FIRE HYDRANT DIRECTION OF OVERLAND FLOW EXISTING SANITARY SEWER PROPOSED VALVE BOX EXISTING STORM SEWER EXISTING CATCHBASIN PROPOSED FIRE HYDRANT CIRCULAR ORIFICE (SEE DWG SD-1) PROPOSED SANITARY SEWER MANHOLE PROPOSED DEPRESSED CURB LOCATIONS PROPOSED STORM SEWER MANHOLE BARRIER ___MOUNTABLE PROPOSED MOUNTABLE/BARRIER CURB LOCATION PROPOSED CATCHBASIN EXISTING EASEMENT PROPOSED CATCHBASIN 'T' — H,B,C,G,SL— — EXISTING 4-PARTY UTILITY TRENCH CATCHBASIN TO BE INSTALLED WITH CIRCULAR ORIFICE (SEE DWG SD-1 EXISTING CONCRETE ENCASED DUCT BANK £473.312.223.314444.3144 PROPOSED DEPRESSED CURB LOCATION PROPOSED MOUNTABLE/BARRIER EXISTING HYDRO TRANSFORMER CURB LOCATIONS EXISTING ROGERS VAULT/PEDESTAL EXISTING FIRE HYDRAN EXISTING SANITARY SEWER EXISTING BELL PEDESTAL EXISTING STORM SEWER EXISTING CSP EXISTING CATCHBASIN GLB EXISTING GLB CMB EXISTING COMMUNITY MAIL BOX LOCATION EXISTING HYDRO TRANSFORMER EXISTING STREET LIGHT \bigcirc EXISTING ROGERS VAULT/PEDESTAL UNIT TO BE EQUIPPED WITH PRESSURE REDUCING VALVE PRV EXISTING BELL PEDESTAL PROPOSED RETAINING WALL EXISTING CSP EXISTING GLB EXISTING COMMUNITY MAIL BOX LOCATION EROSION CONTROL EXISTING STREET LIGHT MAXIMUM PONDING LIMITS PROPOSED LIGHT DUTY SILT FENCE AS PER OPSD 219.110 PROPOSED RETAINING WALI PROPOSED HEAVY DUTY SILT FENCE AS PER OPSD 219.130 PROPOSED STRAW BALE LOCATION AS PER OPSD 219.100 PROPOSED MUD MAT LOCATION SANITARY DRAINAGE 0 PROPOSED CATCH BASIN PROTECTION AS PER DETAIL. — SANITARY DRAINAGE AREA ID# SA24A STORM DRAINAGE - POPULATION

SANITARY DRAINAGE AREA ha.

SANITARY DRAINAGE AREA

PROPOSED SANITARY SEWER



Area ID CB Name Diameter Invert 2-Year 2-Year 100-Year 100-Year

L103A L103A-1 83 96.40 1.22 14.9 1.67 17.5

L103A L103A-2 *CB L103A-1 and L103A-2 to be interconnected w single ICD at L103A-1

L104A L104A-1 83 96.44 1.36 15.7 1.60 17.1

L106A L106A-1 152 96.54 1.12 47.0 1.54 55.7

L104A L104A-2 83 96.44 1.36 15.7 1.60

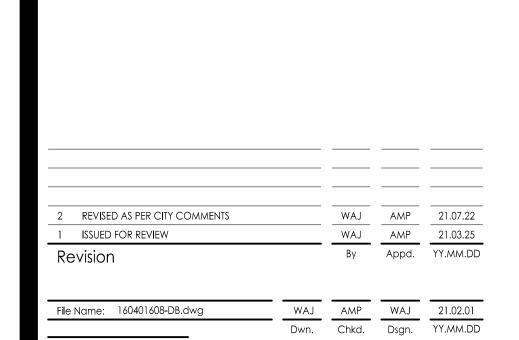
(mm) | (m) | Head (m) | Flow | Head (m) | Flow (L/s)

AREA ID

RUNOFF COEFFICIENT

STORM DRAINAGE AREA ha.

STORM DRAINAGE BOUNDARY



T.K. RATHNASOORIYA 100225159 2021-07-22

Client/Project RICHCRAFT GROUP OF COMPANIES

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OTTAWA, ON

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