GENERAL NOTES THE ORIGINAL TOPOGRAPHY, GROUND ELEVATION AND SURVEY DATA SHOWN ARE SUPPLIED FOR INFORMATION PURPOSES ONLY, AND IMPLY NO GUARANTEE OF ACCURACY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL INFORMATION SHOWN. THIS PLAN IS NOT A CADASTRAL SURVEY SHOWING LEGAL PROPERTY BOUNDARIES AND EASEMENTS. THE PROPERTY BOUNDARIES SHOWN HEREON HAVE BEEN DERIVED INFORMATION SUPPLIED BY (OR SHOWN ON) ANNIS, O'SULLIVAN, VOLLEBEKK LTD JOB # 19966-19 AND CANNOT BE RELIED UPON TO BE ACCURATE OR COMPLETE. THE PRECISE LOCATION OF THE CURRENT PROPERTY BOUNDARIES AND EASEMENTS CAN ONLY BE DETERMINED BY AN UP-TO-DATE LAND TITLES SEARCH AND A SUBSEQUENT O'KEEFE DRAIN WATER SURFACE ELEVATIONS CADASTRAL SURVEY PERFORMED AND CERTIFIED BY AN ONTARIO LAND SURVEYOR. AT STA615.6 100-YEAR: 93.88m THE CONTRACTOR IS TO OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE IN ACCORDANCE WITH NOVATECH DRAWING CITY BEFORE COMMENCING CONSTRUCTION. No. 117148-GP (PROJECT No. 117148) THE CONTRACTOR IS RESPONSIBLE FOR ALL LAYOUT. THE CONTRACTOR IS TO DETERMINE THE EXACT LOCATION, SIZE, MATERIAL AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION. PROTECT AND ASSUME ALL RESPONSIBILITY FOR EXISTING UTILITIES WHETHER OR NOT SHOWN ON THESE DRAWINGS. IF THERE IS ANY DISCREPANCY THE CONTRACTOR IS TO NOTIFY THE ENGINEER PROMPTLY. 4.2m-1353mm X 864mm STM @ 0.20% ~ RESTORE ALL TRENCHES AND SURFACES OF PUBLIC ROAD ALLOWANCES TO CONDITION EQUAL OR BETTER THAN ORIGINAL CONDITION AND TO THE SATISFACTION OF THE CITY AUTHORITIES. APPROXIMATE LOCATION OF EXISTING INV.SW=93.88 STM @ 0.20% INV.SE=93.19 3.3m - 525mmØ STORM STUB @ 0.20% EXCAVATE AND DISPOSE OF ALL EXCESS EXCAVATED MATERIAL, SUCH AS ASPHALT, CURBING AND DEBRIS, OFF SITE AS DIRECTED BY THE ENGINEER AND THE CITY. APPROXIMATE LOCATION OF EXISTING AS PER TOPSOIL TO BE STRIPPED AND STOCKPILED FOR REHABILITATION. CLEAN FILL TO BE PLACED IN FILL -3.6m - 375mmØ STORM STUB @ 0.30% OPSD 804.030 OCATION PLAN AREAS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY. INV=93.66 TO BE REMOVED N.T.S. ALL DISTURBED AREAS TO BE RESTORED TO ORIGINAL CONDITION OR BETTER UNLESS OTHERWISE 4.2m-900mmØ STM @ 0.2 THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL AND SAFETY MEASURES DURING INV.SW=93.77 LEGEND THE CONSTRUCTION PERIOD, INCLUDING THE SUPPLY, INSTALLATION, AND REMOVAL OF ALL INV.SE=93.80 INV.SW=93.68 NECESSARY SIGNAGE, DELINEATORS, MARKERS AND BARRIERS. T/G=95.50 LEGAL BOUNDARY . DO NOT ALTER GRADING OF THE SITE WITHOUT PRIOR APPROVAL OF THE ENGINEER/CITY. AS PER −9.3m-525mmØ STM @ 0.15% INV.SE=94.00 OPSD 804.030 EXISTING DITCH INV.NE=93.64 ALL ROADWAY, PARKING LOT, AND GRADING WORKS TO BE UNDERTAKEN IN ACCORDANCE WITH CITY STANDARDS AND SPECIFICATIONS. THE CONTRACTOR IS TO PROVIDE POSITIVE DRAINAGE AWAY FROM PROPOSED ASPHALT . CONTACT THE CITY FOR INSPECTION OF ROUGH GRADING OF PARKING LOTS, ROADWAYS AND PROPOSED FENCE INV.NE=93.11 LANDSCAPED AREAS PRIOR TO PLACEMENT OF ASPHALT AND TOPSOIL. ALL DEFICIENCIES NOTED SHALL BE RECTIFIED TO THE CITY'S SATISFACTION PRIOR TO PLACEMENT OF ANY ASPHALT, TOPSOIL, SEED & **BUILDING ENTRANCE** MULCH AND/OR SOD PROPOSED BUILDING OUTLINE ALL DIMENSIONS AND INVERTS MUST BE VERIFIED PRIOR TO CONSTRUCTION, IF THERE IS ANY INV.NE=93.25 DISCREPANCY THE CONTRACTOR IS TO NOTIFY THE ENGINEER PROMPTLY. XX.XXm - XXXmmØ STM @ X.XX% EXISTING STORM PIPE 37.60m - 250mmØ OLUME =163r BUILDING:C STM @ 2.00% STM INV = 94.37m 'MYERS BARRHAVEN SUBARU' ELECTRICAL, GAS, TELEPHONE AND TELEVISION SERVICE LOCATIONS ARE SUBJECT TO THE INDIVIDUAL XX.XXm - XXXmmØ SAN @ X.XX% **EXISTING SANITARY PIPE** APPROXIMATE LOCATION OF EXISTIN AUTOMOBILE DEALERSHIP ELECTRICAL SERVICE - HYDRO ONE XX.XXm - XXXmmØ WTR @ X.XX% INV=93.74 TO BE REMOVED EXISTING WATERMAIN PIPE • GAS SERVICE - ENBRIDGE 36,950 sq.ft (3,430m²) 21.7m-200mmØ SAN @ 2.00% TELEPHONE SERVICE - BELL CANADA 18.41m - 200mmØ XX.XXm - XXXmmØ STM @ X.XX% GFA (OUT-TO-OUT) • TELEVISION SERVICE - ROGERS. PROPOSED STORM PIPE SAN @ 1.00% INV.SE=92.4 SAN INV = 93.10m INSTALLATION TO BE IN ACCORDANCE WITH CURRENT CODES AND STANDARDS OF APPROVAL XX.XXm - XXXmmØ SAN @ X.XX% SANMH 1 FFE = 96.10m PROPOSED SANITARY PIPE AGENCIES HYDRO ONE, BELL AND THE CITY. NV.SW=92.90 XX.XXm - XXXmmØ WTR @ X.XX% PROPOSED WATERMAIN PIPE CONTRACTOR TO ENSURE ALL APPLICABLE OPS SPECIFICATIONS ARE FOLLOWED DURING HIGH ALBEDO ROOFTOPS PROPOSED SANITARY MANHOLE .8. ALL PROPOSED CURB TO BE CONCRETE BARRIER CURB UNLESS OTHERWISE SPECIFIED. PROPOSED STORM MANHOLE CATCHBASIN INV.E=93.73 **WATERMAIN NOTES** _ INV.NW=93.76 EXISTING INVERT AT 400mmØ WATERMAIN = ±93.47 PROPOSED STORM CATCHBASIN INV.NE=94.06 CONSTRUCT ALL WATERMAINS AND APPURTENANCES IN ACCORDANCE WITH OPSD STANDARDS AND ICD = TEMPEST LMF70 117148-GP (PROJECT No. 117148). PROPOSED FIRE HYDRANT SPECIFICATIONS, AS WELL AS CITY STANDARDS. PROPOSED FHYD **EXISTING SANITARY MANHOLE** INDUSTRIAL/COMMERCIAL SERVICE CONNECTIONS TO BE 50mm COPPER PIPING AND SHALL ROXIMATE LOCATION OF CONFORM TO ASTM B88 TYPE 'K' SOFT. **EXISTING STORM MANHOLE** INV.W=93.52 WATERMAINS AND/OR WATER SERVICES ARE TO HAVE A MINIMUM COVER OF 2.4m. OTHERWISE EXISTING 49.5m 203mm WATER SERVICE EXISTING FIRE HYDRANT THERMAL INSULATION IS REQUIRED AS PER CITY STANDARDS (IF AVAILABLE) OR OPSD 1109.030. T/G=95.50 2.3m-375mmØ STM @ 0.25% INV.SW=94.13 INV.SW=94.24 **EXISTING STORM CATCHBASIN** INV.SW=94.37 IF THE WATERMAIN MUST BE DEFLECTED TO MEET ALIGNMENT, ENSURE THAT THE AMOUNT OF EXISTING 203mm WATERMAIN STUB DEFLECTION USED IS EQUAL TO OR LESS THAN THAT WHICH IS RECOMMENDED BY THE APPROXIMATE LOCATION OF -MANUFACTURER. INV.N=93.3 **BENCHMARKS**: EXISTING 200mm SANITARY STUB-26.9m-375mmØ STM @0.25% 27.8m-300mmØ STM @0.35% 23.3m-250mmØ STM @ 0.50% V&VB INV.E=93.40 INV=92.24 ___ T/G=95.88 **ELEVATION** DESCRIPTION THERMAL INSULATION OF WATERMAINS AT OPEN STRUCTURES AS PER CITY STANDARDS (IF AVAILABLE) OR OPSD 1109.030. INV.W=93.50 96.26m TOP OF SPINDLE INV.E=93.53 VALVES TO BE OPERATED BY CITY STAFF ONLY. TOP OF SPINDLE 96.91m NO CONNECTION TO EXISTING WATER NETWORK SHALL BE COMPLETED UNTIL A WATER PERMIT IS OBTAINED FROM THE CITY. CITY TO BE PRESENT FOR WATERMAIN CONNECTION. CONNECTION, EXCAVATION, BACKFILLING AND REINSTATEMENT TO BE COMPLETED BY CONTRACTOR. SCALE 1:500 IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ANY WATERMAIN CONNECTION(S) T/G=95.45-REQUIRED. THIS SHALL BE COMPLETED IN THE PRESENCE OF A DESIGNATED MUNICIPAL WATER OPERATOR AND THE SELECTED CONTRACTOR SHALL PROVE TO THE SATISFACTION OF THE CITY THAT INV.SE=93.72 THEY ARE COMPETENT TO PERFORM THE WORKS PRIOR TO INITIATING CONSTRUCTION. ALL WATERMAINS SHALL BE EQUIPPED WITH BUTTERFLY AND GATE VALVES AS PER OPSD 1100.011. 0. ALL FIRE HYDRANTS, VALVE AND VALVE BOX HSALL CONFORM TO OPSD 1103.020. . CONCRETE THRUST BLOCKS TO CONFORM TO OPSD 1103.010 AND OPSD 1103.020 APPROXIMATE LOCATION OF EXISTING CB07 T/G=95.45 11.1m - 375mmØ STORM STUB @ 2. ALL WATERMAIN TO BE CLASS 150 DR-18 OR APPROVED EQUIVALENT. 0.30% INV=93.87 TO BE PLUGGED INV.NW=94.00 13. ALL WATERMAIN TO BE EQUIPPED WITH TRACER WIRE. APPROXIMATE LOCATION OF EXISTING T/G=95.52 **–** INV.NE=94.12 11.4m - 250mmØ STORM STUB @ 0.50% — **SEWER NOTES:** INV=94.10 BUILDING:A 5.7m-250mmØ STM @ 0.50% — INV.NW=93. EXISTING CONSTRUCT ALL SEWERS, CATCH BASINS, MANHOLES AND APPURTENANCES IN INV.NE=94.09 'MYERS BARRHAVEN VW' 8.9m - 200mmØ SANITARY STUB @ 1.00% ACCORDANCE WITH OPSD STANDARDS AND SPECIFICATIONS, AS WELL AS CITY. INV.SW=94.04 AUTOMOBILE DEALERSHIP 16.5m-200mmØ STM @ 2.09 00 ISSUED FOR REVIEW 03/02/2022 12.85m - 200mmØ SEWER TRENCHING AND BEDDING SHALL CONFORM TO OPSD 802.010 AND 802.013 STM @ 1.00% STM INV = 94.31m 31,950 sq.ft. (2,970 m²) <u>.1m-20</u>0mmØ SAN @ 6.00% LINIESS NOTED OTHERWISE GFA (OUT-TO-OUT) 2.1. BEDDING SHALL BE A MINIMUM 150mm OF GRANULAR "A", COMPACTED TO 13.06m - 200mmØ SANMH 128 Date Revision/Issue ___ T/G=95.94 SAN @ 1.00% — MINIMUM 95% STANDARD PROCTOR DRY DENSITY. CLEAR STONE BEDDING SHALL FFE = 96.10m T/G=95.53 SAN INV = 92.33m ✓ INV.NE=92.18 _ INV.NW=91.98 NOT BE PERMITTED INV.SW=92.20 Check and verify all dimensions BUILDING:B \$|> 2.2. SUB-BEDDING, IF REQUIRED SHALL CONSIST OF 450mm OF COMPACTED GRANULAR 1m-200mmØ SAN @ 1.00% - Do not scale drawings before proceeding with the work GRADING IN ACCORDANCE WITH NOVATECH 'MYERS BARRHAVEN NISSAN' 2.3. BACKFILL TO AT LEAST 300mm ABOVE TOP OF PIPE WITH GRANULAR "A" OR BH2 DRAWING No. 117148-GP (PROJECT No. 117148) AUTOMOBILE DEALERSHIP GRANULAR "B" TYPE 1. T/G=95.61 2.4. TO MINIMIZE DIFFERENTIAL FROST HEAVING, TRENCH BACKFILL (FROM PAVEMENT CONNECTION McINTOSH PERRY 21,646 sq.ft. (2,011 m²) GFA SUBGRADE TO 2.0 METRES BELOW FINISHED GRADE) SHALL MATCH EXISTING SOIL (OUT-TO-OUT) 115 Walgreen Road, RR3, Carp, ON KOA 1L0 FFE = 96.10m SANITARY SEWERS AND CONNECTIONS 150mmØ AND SMALLER TO BE PVC SDR-28. Tel: 613-836-2184 Fax: 613-836-3742 HIGH ALBEDO ROOFTOPS 1200mmØ SEWERS AND CONNECTIONS 200mmØ AND LARGER TO BE PVC SDR-35. BEDDING TO BE www.mcintoshperry.com -T/G=95.50 INV.SW=94.01 TYPE "B" EXCEPT AT RISERS, UNLESS NOTED OTHERWISE. EXISTING 203mm WATERMAIN STUB APPROXIMATE LOCATION OF EXISTING INSULATE ALL STORM AND SANITARY SEWERS/SERVICES THAT HAVE LESS THAN 1.5m OF 14.1m - 450mmØ STORM STUB @ 0.25% COVER WITH THERMAL INSULATION AS PER OPSD 1109.030. SEWER CONNECTIONS ARE TO BE MADE ABOVE THE SPRINGLINE OF THE SEWERMAIN AS ICD = TEMPEST LMF100 PER CITY OF OTTAWA STANDARD DRAWING S11, S11.1 & S11.2. SUPPLY AND INSTALL ALL PIPING AND APPURTENANCES AS SHOWN AND DETAILED TO WITHIN 1.0m OF BUILDING. ALL ENDS OF SERVICES TO BE PROPERLY CAPPED AND 3.1m-450mmØ STM @ 0.25% - LOCATED WITH 2"x4"X8' LONG MARKER. CONTRACTOR TO TELEVISE (CCTV) ALL PROPOSED SEWERS ON SITE, OUTLET CONNECTION TO THE MAIN AND PIPES 150mmØ OR GREATER PRIOR TO BASE COURSE ASPHALT. UPON COMPLETION OF CONTRACT, THE CONTRACTOR IS RESPONSIBLE TO FLUSH AND CLEAN **ALL SEWERS & APPURTENANCES** DYE TESTING IS TO BE COMPLETED ON SANITARY SERVICE TO CONFIRM PROPER INV.SW=94.22 BBS CONSTRUCTION LTD. CONNECTION TO SANITARY SEWER MAIN. EXISTING INVERT AT 450mmØ SANITARY = ±93.59 IN ACCORDANCE WITH NOVATECH DRAWING No. 117148-GP (PROJECT No. 117148) PT AT 400mmØ WATERMA''' F WITH NOVATE. NV.NE=94.32 1805 WOODWARD DRIVE, OTTAWA, ONTARIO, K2C 0P9 SAN STRUCTURE TABLE JOB BENCHMARK No. RIM ELEV. INVERT IN INVERT OUT DESCRIPTION NAME INV.NE=94.24 **COVER CITY STD S24** NE92.92 SW92.90 FRAME CITY STD S25 SANMH 1 95.77 4149 STANDHERD DRIVE STRUC OPSD 701.010 SMOOTH WALLED PERFORATED PIPE 1 SYSTEM, LINED WITH FILTER CLOTH WITH MYERS NISSAN & SUBARU **COVER CITY STD S24** STONE STORAGE 0.5m BELOW,0.5m ON SANMH 2 96.03 NE92.47 SE92.41 FRAME CITY STD S25 BOTH SIDES OF PIPE, AND 0.15m ABOVE. STRUC OPSD 701.010 **ONTARIO** NW91.98 SANMH 3 95.94 NE92.55 SE91.97 IN ACCORDANCE WITH NOVATECH DRAWING No. -Drawing Title: 117148-GP (PROJECT No. 117148). SW92.03 SERVICING PLAN **DROP STRUCTURE PER** SANMH 4 NW91.68 SE90.33 95.90 OPSD 1003.010 STMMH **COVER CITY STD S24 SANMH 128** SW92.20 SW92.18 95.56 FRAME CITY STD S25 STRUC OPSD 701 01 Project Number: 1:500 CCO-22-2933 Drawn by: M.M. Checked By: Drawing Number: A.G. C102 Designed By: