

ROAD RECONSTRUCTION OF POTTS ROAD AND HOMEWOOD AVE SIMCOE, ON

CONTRACT No. EIS-ENG-24-39

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GENERAL NOTES

- ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MOST CURRENT NORFOLK COUNTY STANDARDS AND SPECIFICATIONS, ONTARIO PROVISIONAL STANDARDS DRAWINGS AND SPECIFICATIONS AND ASSOCIATED AMENDMENTS; AND APPROVED MANUFACTURER'S LIST, UNLESS OTHERWISE NOTED.
- THE LOCATION OF UNDER/ABOVE GROUND UTILITIES AND STRUCTURES SHOWN ON THE DRAWINGS ARE APPROXIMATE ONLY AND THE ACCURACY IS NOT GUARANTEED. THE CONTRACTOR SHALL DETERMINE THE LOCATION OF ALL UTILITIES AND STRUCTURES BY CONSULTING THE APPROPRIATE AUTHORITIES OR UTILIT AGENCIES. THE COUNTY DISCLAIMS ALL RESPONSIBILITY FOR THE ACCURACY AND/OR SUFFICIENCY OF THE INFORMATION. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATIONS OF ALL UTILITIES AND STRUCTURES AND SHALL ASSUME ALL LIABILITY AND ASSUME THE COSTS OF REPAIR OF DAMAGE CAUSED BY THESE
- THE CONTRACTOR IS TO MEET ALL THE REQUIREMENTS OF THE OWNERS OF THE UTILITIES AND MAKE SATISFACTORY ARRANGEMENTS WITH THE UTILITY COMPANIES FOR CROSSING THEIR INSTALLATIONS AND FOR PROVIDING ADEQUATE PROTECTION DURING CONSTRUCTION
- 4. DIMENSIONS ARE NOT TO BE SCALED FROM THE DRAWINGS.
- 5. READ ALL DRAWINGS IN CONJUNCTION WITH CONTRACT SPECIFICATIONS.
- 6. THE LOCATION AND ELEVATION OF ALL EXISTING SERVICES AND UTILITIES ARE TO BE VERIFIED IN THE FIELD BY
 THE CONTRACTOR FOR ACCURACY PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE IMMEDIATELY
 REPORTED TO THE CONTRACT ADMINISTRATOR. DETAILS ARE NOT TO BE SCALED FROM THE DRAWINGS. IN THE
 CASE OF STORM, SANITARY SEWERS AND COLVERTS, THE CONTRACTOR SHALL SURVEY THE INVERTS AND SIZES

 8. ANODES ARE TO BE PROVIDED ON ALL METALLIC BENDS, THE CONTRACTOR SHALL SURVEY THE INVERTS AND SIZES

 6. THE LOCATION AND ELEVATION OF ALL WATERMAIN FITTINGS SHALL HAVE MECHANICAL JOINTS.

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- 7. ALL SERVICES AND UTILITIES SHALL BE SUPPORTED AS PER THE REQUIREMENTS OF THE COUNTY OR UTILITY AGENCIES. WHERE THE STABILITY, SAFETY OR FUNCTION OF THE EXISTING ROADWAY OR UNDERGROUND FACILITIES MAY BE IMPAIRED DUÉ TO THE CONTRACTOR'S METHOD OF OPERATIONS. THE CONTRACTOR SHALL PROVIDE SUCH PROTECTION AS MAY BE REQUIRED INCLUDING SHEETING, SHORING AND DRIVING OF PILES WHERE NECESSARY, TO PREVENT DAMAGE EXISTING WORKS OR PROPOSED WORKS. CONSTRUCTION OF SHORING, BRACING AND PROTECTION SCHEMES SHALL CONFORM TO OPSS 404 AND 539.
- 8. ALL HYDRO, POWER OR TELEPHONE POLES WITHIN 2.0m FROM PIPE TRENCHES OR OPEN EXCAVATIONS SHALL
- 9. EXTREME CARE IS REQUIRED DURING EXCAVATION IN THE VICINITY OF ANY EXISTING UNDERGROUND OR OVERHEAD UTILITY IN ORDER TO AVOID DAMAGE. REPAIR TO ANY DAMAGE TO THE UTILITIES SHALL BE CONTRACTOR'S RESPONSIBILITY. REPAIR SHALL BE COMPLETED TO THE SATISFACTION OF UTILITY OWNER AND
- 10. CLEARING OF ANY EXISTING VEGETATION OTHER THAN THAT DETAILED ON THE CONTRACT DRAWINGS SHALL NOT BE UNDERTAKEN WITHOUT SPECIFIC WRITTEN DIRECTIONS OF THE CONTRACT ADMINISTRATOR. VERTICAL EXCAVATION, HAND EXCAVATION, AUGURING AND IMMEDIATE BACKFILLING OF ANY TRENCH SHALL BE UNDERTAKEN BY THE CONTRACTOR AS NECESSARY TO ENSURE THAT ALL REASONABLE PRECAUTIONS ARE TAKEN TO PROMOTE THE SURVIVAL OF ANY EXISTING VEGETATION. COORDINATE WITH THE CONTRACT ADMINISTRATOR AND COUNTY ARBORIST FOR ANY WORKS WITH THE DRIPLINE OF ANY TREE OVER 50mm CALIPER.
- 11. EXCAVATION OF ALL TRENCHES TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE OCCUPATIONAL HEALTH & SAFETY ACT (OHSA) AND REGULATIONS FOR CONSTRUCTION PROJECTS.
- 12. ALL ORGANIC, SUITABLE OR UNSUITABLE MATERIALS BENEATH THE ROAD ALLOWANCE MUST BE REMOVED AND THESE AREAS BACKFILLED WITH AN APPROVED FILL MATERIAL TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR
- 13. SURPLUS OR UNSUITABLE EXCAVATED MATERIAL SHALL BE REMOVED AND TRANSPORTED FOR DISPOSAL OFFSITE PER THE REQUIREMENTS OF O.REG 406/19 AND AS PER THE PROJECT'S EXCESS SOILS MANAGEMENT PLAN.
- 14. HANDLING AND INSTALLATION OF ALL PIPES SHALL BE IN STRICT COMPLIANCE WITH THE MANUFACTURER'S GUIDELINES.
- 15. ALL GEOTECHNICAL BOREHOLE (BH) LOGS SHOWN ON PLAN AND PROFILE DRAWINGS ARE SCHEMATIC ONLY
- 16. PRIOR TO CLOSING ANY STREET, THE CONTRACTOR SHALL OBTAIN CLEARANCE BY FILLING OUT THE COUNTY'S NOTICE OF ROAD CLOSURE FORM AND NOTIFY SCHOOL BUS OPERATORS OR STREETS USED FOR DETOUR AND
- THE DURATION OF THE DETOUR. THE CONTRACTOR MUST SUPPLY AND MAINTAIN ADEQUATE LOCAL DETOUR SIGN 17. ACCESS TO ALL PROPERTIES SHALL BE MAINTAINED AT ALL TIMES. CONSTRUCTION STAGING ACROSS STREETS AND DRIVEWAYS SHALL BE LIMITED TO HALF AT A TIME. SHOULD TEMPORARY DRIVEWAY BLOCKAGE BE
- REQUIRED, THE RESIDENT OR BUSINESS SHALL BE NOTIFIED A MINIMUM OF 24 HOURS IN ADVANCE OF WORK 18. SHOP DRAWINGS FOR SHORING, SHEETING AND BRACING SHALL BE PREPARED BY THE CONTRACTOR, BY A
- PROFESSIONAL ENGINEER CERTIFIED IN THE PROVINCE OF ONTARIO AND SUBMITTED FOR REVIEW TO THE CONTRACT ADMINISTRATOR PRIOR TO CONSTRUCTION.
- 19. THE CONTRACTOR SHALL NOT BACKFILL OR BURY ANY UTILITY OR STRUCTURE WITHOUT FIRST ENSURING THAT THE ACTUAL LOCATION OF THE SERVICE (BOTH VERTICAL AND HORIZONTAL) HAS BEEN RECORDED BY THE CONTRACT ADMINISTRATOR FOR 'AS-CONSTRUCTED' PURPOSES.
- 20. MAINTENANCE HOLE AND VALVE CHAMBER COVERS ARE TO BE SET FLUSH WITH BASE COVER ASPHALT AND ADJUSTED TO FINAL GRADE PRIOR TO INSTALLING TOP LIFT ASPHALT.
- 21. ALL PAVEMENT OR CURB MARKINGS AND TRAFFIC STRIPING REMOVED OR DISTURBED, WHETHER PARTIALLY OR COMPLETELY BY THE CONTRACTOR'S OPERATION SHALL BE REPLACED COMPLETELY.
- 22. ALL EXISTING SURFACE IMPROVEMENTS SHALL BE ASSESSED BY THE CONTRACTOR PRIOR TO BEGINNING WORK AND SHALL BE REPLACED IN KIND AT THE CONTRACTOR'S EXPENSE IF DAMAGED DURING CONSTRUCTION.
- 24. NORFOLK COUNTY STANDARD DRAWINGS AND ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD), AS AMENDED,
- 25. WHERE AS NECESSARY TO ENTER PRIVATE PROPERTY TO CONNECT THE EXISTING WATER RESULTS IN A

SHALL CONSTITUTE PART OF THE ENGINEERING DESIGN AND CONSTRUCTION CONTRACT.

- NEGATIVE IMPACT TO THE PRIVATE PROPERTY, THE PRIVATE PROPERTY MUST BE RESTORED TO EXISTING CONDITION OR BETTER, AT NO ADDITIONAL COST TOT HE CONTRACT OR THE LANDOWNER.
- 26. THE CONTRACTOR SHALL CONSTRUCT TEMPORARY MEASURES TO CONTROL SILT FROM ENTERING THE STORM DRAINAGE SYSTEM TO THE SPECIFICATIONS OUTLINED IN THE GUIDELINES ON EROSION AND SEDIMENT CONTROL FOR URBAN CONSTRUCTION SITES PREPARED BY THE MNR. THESE MEASURES ARE TO BE INSTALLED PRIOR TO COMMENCING ANY CONSTRUCTION AND ARE TO REMAIN IN PLACE UNTIL CONSTRUCTION HAS BEEN COMPLETED TO THE SPECIFICATIONS OF THE COUNTY AND CONTRACT ADMINISTRATOR.
- 27. ALL TREES OR VEGETATION REMOVAL MUST BE COMPLETED IN COMPLIANCE WITH THE MIGRATORY BIRDS CONVENTION ACT. TREES AND VEGETATION REMOVAL SHALL BE COMPLETED OUTSIDE OF THE BIRD BREEDING SEASON OR FOLLOWING INSPECTION AND CONFIRMATION OF NO ACTIVE NESTS BY A QUALIFIED BIOLOGIST. IF TO TAKE PLACE IN THE BIRD BREEDING WINDOW, CONSULTATION WITH THE CANADIAN WILDLIFE

STORM AND SANITARY SEWER NOTES

23. NO BLASTING IS PERMITTED.

- 1. SEWER INSTALLATION SHALL CONFORM TO THE LATEST REVISIONS OF THE ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) AND SPECIFICATIONS (OPSS) AS AMENDED BY THE COUNTY AND AS PER THE CONTRACT
- SERVICE CONNECTION LOCATIONS AND ELEVATIONS ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY ALL CONNECTION LOCATIONS. NEW SERVICES SHOULD EXTEND 1.0m PAST PROPERTY LINE.
- 3. A MINIMUM HORIZONTAL SEPARATION OF 2.5m MUST BE MAINTAINED BETWEEN WATERMAINS AND SANITARY OR
- STORM SEWERS, INCLUDING SERVICE LATERALS, UNLESS OTHERWISE NOTED. 4. A MINIMUM VERTICAL SEPARATION OF 0.50m BETWEEN WATERMAINS AND SEWERS MUST BE MAINTAINED.
- 5. MINIMUM DEPTH OF COVER OVER THE SEWER SHALL BE 1.4m UNLESS NOTED OTHERWISE.
- 6. PRIVATE DRAIN CONNECTIONS SHALL BE 150mmø PVC SDR 28 WITH CLASS B BEDDING TO OPSD 1006.010 AND OPSD 1006.020 AS APPLICABLE. CONNECTIONS ARE TO BE MADE AT THE PROPERTY LINE c/w
- ALL CATCH BASIN LEADS SHALL BE 250mmø FOR SINGLE CATCH BASINS AND 300mmø FOR DOUBLE CATCH BASINS, UNLESS NOTED OTHERWISE. PIPE MATERIAL TO BE PVC SDR 35 BEDDED WITH CLASS B BEDDING.
- 8. REINFORCED CONCRETE STORM SEWER MAIN PIPE SHALL BE CLASS 65-D UNLESS NOTED OTHERWISE.
- 9. POLYVINYL CHLORIDE STORM SEWER SHALL BE (PVC SDR35) IN ACCORDANCE WITH THE REQUIREMENTS OF
- 10. HDPE PIPE SHALL BE 320 KPa IN ACCORDANCE TO CSA B182.6 (SANITARY) FOR SIZES UP TO AND INCLUDING 450mm. JOINTS SHALL HAVE AN ELECTROMETRIC GASKET. SPLIT COUPLING JOINTS WILL NOT BE ACCEPTED.
- 11. ALL PIPE SHALL HAVE A SMOOTH INTERIOR WALL.
- 12. FRAME AND GRATE ON SANITARY MAINTENANCE HOLES PER OPSD 401.010 TYPE A.
- 13. FRAME AND GRATE FOR STORM MAINTENANCE HOLES TO OPSD 401.010 TYPE B.
- 14. CATCH BASIN FRAME AND GRATE WITHIN ROADWAY TO OPSD 400.100. IN VEGETATE AREAS, PROVIDE FRAME AND GRATE TO OPSD 400.120.
- 15. CATCH BASINS TO OPSD 705.010. DOUBLE CATCH BASINS TO OPSD 705.020.
- 16. CATCH BASIN INSTALLATION AT CURB AND GUTTER TO OPSD 610.010.
- 17. CONNECTIONS TO MAIN PER OPSD 708.010
- 18. MAINTENANCE HOLE RISERS AND ADJUSTMENT UNITS TO OPSD 701.031 AND 704.120.
- 19. SUBDRAIN UNDER CURB PER OPSD 207.041. PROVIDE SUBDRAIN CONNECTIONS AT STORM STRUCTURES PER

20. MAINTENANCE HOLE BENCHING TO OPSD 701.021.

WATERMAIN NOTES

- WATERMAIN INSTALLATION SHALL CONFORM TO THE LATEST REVISIONS OF THE ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) AND SPECIFICATIONS (OPSS) AS AMENDED BY THE COUNTY AND AS PER THE CONTRACT DRAWINGS AND SPECIFICATIONS.
- 2. A MINIMUM HORIZONTAL SEPARATION OF 2.5m MUST BE MAINTAINED BETWEEN WATERMAINS AND SANITARY OR STORM SEWERS, INCLUDING SERVICE LATERALS, UNLESS OTHERWISE NOTED.
- 3. A MINIMUM VERTICAL SEPARATION OF 0.50m BETWEEN WATERMAINS AND SEWERS MUST BE MAINTAINED IF WATERMAIN IS INSTALLED ABOVE THE SEWER OR 0.50m IF SEWER IS ABOVE THE WATERMAIN.
- 4. ALL VALVES SHALL BE APPROVED TYPE WITH NON-RISING STEM AND SHALL HAVE 50mm SQUARE STANDARD
- 5. ALL PLUGS, CAPS, TEES AND BENDS SHALL BE PROVIDED WITH THRUST BLOCKS AS PER OPSD 1103.01 AND OPSD 1103.020. IN ADDITION, ALL PVC PIPES SHALL BE MECHANICALLY RESTRAINED AS PER MANUFACTURERS SPECIFICATIONS. RESTRAINTS SHALL MEET ALL REQUIREMENTS OF UNI-BELL B-13. REFER TO THE THRUST RESTRAINT TABLE THIS DRAWING.
- 6. MINIMUM DEPTH OF COVER OVER THE WATERMAIN SHALL BE 1.7m UNLESS NOTED OTHERWISE

AWWA OPERATING NUT. SEE THE COUNTY'S APPROVED MANUFACTURERS PRODUCTS LIST.

- ANODES ARE TO BE PROVIDED ON ALL METALLIC BENDS, TEES, CROSSES, VALVES, REDUCERS, ETC., AT AT EACH WATER SERVICE CONNECTION PER COUNTY OF NORFOLK STANDARDS. REFER TO THE SUMMARY TABLE
- 9. TWU 10 COPPER TRACER WIRE TO BE INSTALLED ON ALL NEW INSTALLATIONS OF PVC WATERMAIN PIPE FOR LOCATING PURPOSES. JOINTS IN THE WIRE BETWEEN VALVES ARE NOT PERMITTED.
- 10. THE CONTRACTOR SHALL TEST THE TRACING WIRE FOR CONDUCTIVITY. IF THE TRACING WIRE IS NOT CONTINUOUS FROM VALVE TO VALVE, THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, REPLACE OR REPAIR
- . WATERMAIN FITTINGS, INCLUDING ALL STANDARD BENDS. VALVES, AND HYDRANTS, SHALL BE MECHANICAL JOINT OR PUSH-ON JOINT INSTALLED WITH NORFOLK COUNTY APPROVED MECHANICAL RESTRAINTS.
- 12. CHANGES IN THE VERTICAL AND HORIZONTAL ALIGNMENT OF WATERMAINS ARE GENERALLY TO BE ACHIEVED BY THE USE OF STANDARD BENDS. WHERE THE USE OF STANDARD BENDS IS NOT POSSIBLE, CHANGES IN ALIGNMENT MAY BE BY DEFLECTION OF JOINTS AS PER MANUFACTURER'S SPECIFICATIONS. DEFLECTION OF THE WATERMAIN SHALL BE 50% OF THE MANUFACTURER'S SPECIFICATIONS. PIPE BARREL DEFLECTION IS STRICTLY
- 13. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY CAPS, PLUGS AND BLOW OFFS REQUIRED FOR TESTING THE
- 14. ALL WATER CUSTOMERS SUPPLIED BY A WATERMAIN TO BE TEMPORARILY SHUT DOWN SHALL BE NOTIFIED BY THE CONTRACTOR AT LEAST 48 HOURS IN ADVANCE OF THE SHUT DOWN.
- 15. FIRE HYDRANTS SHALL BE CLOW M67 BRIGADIER OR CENTURY HYDRANT BY CANADA VALVE, PAINTED RED.
- 16. ALL NEW RESIDENTIAL WATER SERVICES SHALL BE 25mmø CROSS-LINKED POLYETHYLENE (PEX) PIPE, CSA CERTIFIED TO CSA B137.5 CONFORMING TO AWWA C904 AND SHALL BE SDR9, PRESSURE RATED AT THE

-160 PSI AT 73.4°F (1100 KPA AT 23°C) -100 PSI AT 180°F (690 KPA AT 82°C)

-80 PSI AT 200°F (55 KPA AT 93°C)S.

- 17. THE DEPTH OF WATER SERVICES AT PROPERTY LINE SHOULD BE A MINIMUM OF 1.7m AND A MAXIMUM OF 2.0m. THE DISTANCE BETWEEN THE GROUND ELEVATION AND THE TOP OF THE ROD SHOULD BE BETWEEN
- 18. UNLESS OTHERWISE NOTED SERVICES TO BE REPLACED FROM THE MAIN TO PROPERTY LINE WITH A NEW CURB STOP AND SERVICE BOX AT THE PROPERTY LINE.
- 19. THE CONTRACTOR SHALL NOT OPERATE ANY VALVE OR HYDRANT ON THE MUNICIPAL WATER SYSTEM. REQUESTS FOR OPERATION OF VALVES, HYDRANTS OR OTHER APPURTENANCES SHALL BE MADE TO THE COUNTY'S WATER WORKS DEPARTMENT A MINIMUM OF 48 HOURS IN ADVANCE OF OPERATIONS BEING REQUIRED..
- 20. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THEY HAVE A COPIES OF, AND ARE FAMILIAR WITH, THE MOST RECENT NORFOLK COUNTY DESIGN CRITERIA, CONTRACT SPECIFICATIONS AND STANDARD DRAWINGS AND SPECIFICATIONS FOR CONNECTIONS TO EXISTING WATERMAINS, AND SWABBING, FLUSHING, DISINFECTION, LEAKAGE TESTING AND BACTERIOLOGICAL TESTING.

ROAD WORKS NOTES

- 1. NEW AND REPLACED CURB AND GUTTER TO BE IN ACCORDANCE WITH OPSD 600.040, AND 608.010, AS INDICATED OR AS REQUIRED TO MATCH EXISTING CONDITIONS.
- 2. ALL PAVEMENT DIMENSIONS MEASURED TO EDGE OF PAVEMENT.
- 3. SIDEWALKS TO BE IN ACCORDANCE WITH OPSD 310.010, 310.020 AND 310.030 AS INDICATED OR AS APPROPRIATE TO MATCH EXISTING CONDITIONS
- 4. ALL NEW ASPHALT SHALL BE HOT MIX, HOT LAID, ASPHALTIC CONCRETE PLACED IN ACCORDANCE WITH OPSS FORMS 310 AND 1151 LATEST AMENDMENTS.
- 5. RESTORATION OF EXISTING DRIVEWAYS AND/OR APPROACHES DISTURBED DURING THE COURSE OF CONSTRUCTION SHALL BE COMPLETED TO THE FOLLOWING STANDARDS: A) GRAVEL DRIVEWAY: MINIMUM 150mm LAYER OF GRANULAR A COMPACTED TO 100% SPMDD. B) ASPHALT DRIVEWAYS: 50mm HL3A COMPACTED TO 97% MARSHALL OVERLYING 150mm GRANULAR A
 - COMPACTED TO 100% SPMDD. C) CONCRETE DRIVEWAYS: RESTORED WITH 150mm THICK 30MPa CONCRETE OVERLYING 150mm GRANULAR A COMPACTED TO 100% SPMDD.
 - D) PAVING STONES: RESTORED WITH EXISTING SALVAGED OR AUGMENTED PAVING STONES. PROVIDE MAXIMUM 3mm JOINT WIDTHS FILLED WITH MORTAR SAND, 50mm COMPACTED DEPTH OF MORTAR SAND OR LIMESTONE SCREENINGS, AND 200mm COMPACTED DEPTH GRANULAR A COMPACTED TO 100% SPMDD.
- 6. BOULEVARDS SHALL BE RESTORED WITH SOD OVERLYING 150mm TOPSOIL UNLESS NOTED OTHERWISE.
- 7. CONTINUOUS SUBDRAIN SHALL BE INSTALLED UNDER CURB. SUBDRAIN SHALL BE BOSS 2000 PERFORATED PIPE c/w KNITTED SOCK OR APPROVED EQUIVALENT.
- 8. CONSTRUCTION JOINTS BETWEEN EXISTING AND NEW ASPHALT SHALL BE CONSTRUCTED IN ACCORDANCE WITH OPSS 310 AND 1212. COMPLETE WITH STEP JOINT AS DETAILED AND HOT RUBBER SEALING COMPOUND.
- 9. ALL MAINTENANCE HOLES WITHIN THE TRAVELED PORTION OF THE ROAD AND CATCH BASINS LOCATED AT ROAD LOW POINTS SHALL BE SET FLUSH WITH THE BASE ASPHALT GRADE AND ADJUSTED TO FINAL GRADE IMMEDIATELY PRIOR TO PLACEMENT OF THE FINISH COURSE ASPHALT. ALL OTHER STREET CATCH BASINS SHALL BE SET TO FINAL ROAD GRADES AND TEMPORARILY COLD ASPHALT RAMPED. IMMEDIATELY PRIOR TO PLACING SURFACE COURSE THE CATCH BASIN RAMPS SHALL BE REMOVED.
- 10. EXISTING STREET NAMES AND TRAFFIC CONTROL SIGNS SHALL BE MAINTAINED THROUGHOUT THE COURSE OF CONSTRUCTION AND RELOCATED IN ACCORDANCE WITH NORFOLK COUNTY STANDARDS IMMEDIATELY UPON COMPLETION OF BASE ASPHALT INSTALLATION.
- 11. DIRECT PEDESTRIAN TRAFFIC AROUND WORK SITE. WHERE EXISTING SIDEWALK IS REMOVED TEMPORARY ASPHALT SIDEWALK TO BE PROVIDED.
- 12. CONTRACTOR TO INSTALL TACTILE WALKING SURFACE INDICATORS AS PER OPSD 310.039 AT INTERSECTIONS IDENTIFIED ON THE PLANS. CONTRACTOR TO ENSURE INSTALLATION COMPLIES WITH NORFOLK COUNTY ACCESSIBILITY DESIGN GUIDELINES SECTION 3.4.
- 13. CONTRACTOR TO STRIP TOPSOIL FROM EXISTING DITCHES, BACKFILL WITH ONSITE SUITABLE FILL MATERIAL TO CONFORM TO GRADING PLANS. CONTRACTOR TO PLACE FILL IN DITCHES IN MAXIMUM 200mm LIFTS.
- 14. PROPOSED CATCHBASINS WITHIN SOFTSCAPE AREAS TO BE FITTED WITH BIRDCAGE FRAME AND GRATE AS PER

EROSION CONTROL NOTES

- . EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED PRIOR TO, AND MAINTAINED DURING, THE CONSTRUCTION PART TO PREVENT ENTRY OF SEDIMENT INTO LOCAL STORM SEWERS OR THE NATURAL
- 2. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR DESIGNING AND PROVIDING ALL SEDIMENT CONTROL MEASURES AS MAY BE REQUIRED TO PROTECT THE WORK SITE OR THE ADJACENT LANDS, REGARDLESS OF THE 2. SOURCE OR ORIGIN OF EROSION OR SEDIMENTS. IF THE CONTRACT ADMINISTRATOR IS NOT SATISFIED WITH THE EXTENT OF THE MEASURES TAKEN, THEY MAY DIRECT THAT ADDITIONAL CONTROLS BE PUT IN PLACE. THE CONTRACT REQUIREMENTS FOR SEDIMENT AND EROSION CONTROL SHALL BE CONSIDERED ABSOLUTE MINIMUMS THE ULTIMATE RESPONSIBILITY TO ENSURE THAT THE MEASURES ARE ADEQUATE SHALL LIE SOLELY ON THE CONTRACTOR. ANY DAMAGE RESULTING FROM FAILURE OF THESE MEASURES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- ALL SEDIMENT AND EROSION CONTROLS ARE TO BE INSPECTED REGULARLY, INCLUDING PRIOR TO RAIN EVENTS. ALL INEFFECTIVE OR DAMAGED ESC MEASURES SHOULD BE MAINTAINED, REPAIRED OR REPLACED WITHIN 48 HOURS OF THE INSPECTION.
- 4. PERSONNEL WILL ATTEND THE SITE TO INSPECT ALL CONTROLS, ON A REGULAR BASIS, OR FOLLOWING A RAIN EVENT, TO MONITOR ALL WORKS, AND IN PARTICULAR WORKS RELATED TO EROSION AND SEDIMENT CONTROL, DEWATERING, RESTORATION. SHOULD CONCERNS ARISE, THE CONSERVATION AUTHORITY AND THE CONTRACT ADMINISTRATOR WILL BE CONTACTED.
- 5. ALL COLLECTED SEDIMENT TO BE REMOVED AND TRANSPORTED FOR DISPOSAL OFFSITE. CONTRACTOR TO SUBMIT OPSS FORM 180 FOR DISPOSAL SITES.
- 6. EROSION AND SEDIMENT CONTROL MEASURES MAY NEED TO BE UPGRADED/AMENDED AS SITE CONDITIONS CHANGE IN ORDER TO PREVENT THE RELEASE OF SEDIMENT.
- 7. ALL ACTIVITIES, INCLUDING EQUIPMENT MAINTENANCE AND REFUELING WILL BE CONTROLLED TO PREVENT THE ENTRY OF PETROLEUM PRODUCTS, DEBRIS, RUBBLE, CONCRETE, OR OTHER DELETERIOUS SUBSTANCES INTO THE STORM SEWER OR THE NATURAL ENVIRONMENT.
- 8. ALL SITE DISCHARGE, INCLUDING DEWATERING. MUST BE TREATED TO MEETING THE REQUIRED OBJECTIVES OF THE RECEIVING INFRASTRUCTURE OR WATERCOURSE (e.g. COUNTY SEWER USE BY-LAW OBJECTIVES FOR STORM OR SANITARY SEWERS, AND PROVINCIAL WATER QUALITY OBJECTIVES FOR THE NATURAL ENVIRONMENT).
- FOR INFORMATION BY THE CONSULTANT AND SHALL FOLLOW THE DEWATERING RECOMMENDATIONS OR REQUIREMENTS, IF NECESSARY, REQUIRED FOR CONSTRUCTION OF THE WORKS. 10. ALL DEWATERING EFFLUENT SHALL BE TREATED BEFORE RELEASE TO THE ENVIRONMENT AT LEAST 30 METRES FROM A WATERCOURSE OR WETLAND AND ALLOWED TO DRAIN THROUGH A WELL VEGETATED AREA. NO

DEWATERING EFFLUENT SHALL BE SENT DIRECTLY TO ANY WATERCOURSE, WETLAND OR FOREST, OR ALLOWED

- TO DRAIN ONTO DISTURBED SOILS WITHIN THE WORK AREA. THESE CONTROL MEASURES SHALL BE MONITORED FOR EFFECTIVENESS AND MAINTAINED OR REVISED AT NO ADDITIONAL COST TO MEET THE OBJECTIVE OF PREVENTING THE RELEASE OF SEDIMENT LADEN WATER. USE OF ENVIRO-TANK, FILTER BAGS OR PERFORATED PIPE SHOULD BE CONSIDERED FOR TREATING DEWATERING EFFLUENT.
- 11. PROTECT ALL CATCHBASINS, MANHOLES AND PIPE ENDS FROM SEDIMENT INTRUSION. CATCH BASIN INSERT FILTERS SHALL BE UNDER GRATES OF ALL CATCH BASINS TO TRAP SEDIMENT. INSERTS ARE TO BE CLEANED REGULARLY AND ARE NOT TO BE REMOVED UNTIL SUCH TIME AS THE CURBS ARE CONSTRUCTED IF REQUIRED, 14. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL SIGNS DAMAGED OR RENDERED AND THE BOULEVARDS ARE SODDED. CATCH BASIN INSERT TO BE TERRAFIX OR APPROVED EQUIVALENT.
- 12. ROADS TO BE CLEANED MINIMUM ONCE A WEEK OR AS INSTRUCTED BY THE CONTRACT ADMINISTRATOR. IT IS NOT ACCEPTABLE TO HAVE MUD AND DEBRIS LYING ON ROADS. ADDITIONAL ENVIRONMENTAL CONTROLS ARE TO
- BE PLACED AS INSTRUCTED BY THE CONTRACT ADMINISTRATOR. 13. STOCKPILES TO BE ENCLOSED WITH EROSION CONTROL SILT FENCE.

THRUST RESTRAINT TABLE

| | MINIMUM LENGTH (m) TO BE RESTRAINED EACH SIDE OF FITTING | | | | | | |
|----------|--|------------|------|---------------|-----|-------|---------|
| DIAMETER | НОІ | RIZONTAL E | BEND | VERTICAL BEND | TEE | VALVE | REDUCER |
| | 11.25° | 22.5* | 45° | UNDERCROSSING | | | |
| 150mm | 2 | 2 | 3 | 6 | 13 | 13 | _ |

NOTE: RESTRAINT DISTANCES WERE CALCULATED BASED ON THE USE OF EBAA SUPPLIED PRODUCTS. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE DESIGN CALCULATION TO SUPPORT THE USE OF AN ALTERNATE SUPPLIER, AS PERMITTED BY THE COUNTY.

SANITARY SEWER STRUCTURES TABLE STRUCTURE HEIGHT STRUCTURE NAME LID ELEV. INV. FLEV. INV. S = 217.61m (200mmø)NFW SAMH1 221.01 INV. N = 217.68m (200mmø)1200mmø NEW SAMH2 INV. S = 218.65m (200mmø)3.01m 1200mmø NEW SAMH INV. N = 217.42m (200mmø)2.65m INV. $W = 217.55m (150mm\phi)$ 1200mmø INV. S = 219.77m (200mmø)NEW SAMH4 222.54 2.76m 1200mmø | INV. N = 219.84m (200mm) |NEW SAMH5 | INV. S = 220.73m (200mmø) |3.51m 1200mmø

| | STORM SE | EWER STRUCTURES TABLE | |
|----------------|-----------|--|------------------|
| STRUCTURE NAME | LID ELEV. | INV. ELEV | STRUCTURE HEIGHT |
| EX. CBMH4 | 220.06 | INV. E = 218.37m (250mmø) EX. LEAD INV. S = 218.17m (375mmø) EX. INV. N = 218.25m (375mmø) | 1.89m |
| EX. CBMH1 | 219.89 | INV. S = 216.76m (450mmø) EX. INV. E = 216.92m (250mmø) EX. LEAD INV. N = 216.81m (375mmø) | 3.13m |
| NEW CBMH2 | 220.82 | INV. S = 218.50m (375mmø) INV. E = 219.25m (250mmø) LEAD INV. N = 218.65m (375mmø) | 2.32m |
| NEW CBMH3 | 221.35 | INV. S = 219.34m (375mmø) INV. E = 219.94m (250mmø) LEAD | 2.01m |
| NEW CBMH5 | 222.30 | INV. S = 220.27m (375mmø) INV. E = 220.92m (250mmø) LEAD INV. N = 220.32m (375mmø) | 2.03m |
| NEW CBMH6 | 223.43 | INV. S = 221.46m (375mmø) INV. E = 222.06m (250mmø) LEAD | 1.97m |
| NEW CB 3 | 220.73 | INV. W = 219.53m (250mmø) LEAD | 1.50m |
| NEW CB 4 | 221.40 | INV. W = 220.20m (250mmø) LEAD | 1.50m |
| | | | |

| INV. W = 221.03 m (250 mm) LEAD

INV. W = 222.21m (250mmø) LEAD

NEW CB 5

NEW CB 6

1.50m

1.50m

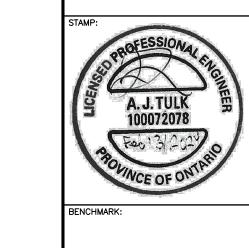
TRAFFIC MANAGEMENT NOTES

- THE CONTRACTOR IS ADVISED OF HEAVY TRAFFIC VOLUMES DURING THE MORNING AND EVENING PEAK HOURS AND MUST IMPLEMENT ALL NECESSARY MEASURES SUCH AS ENGAGING ADDITIONAL CONSTRUCTION CREWS IN ORDER TO COMPLETE THE WORK IN THE SHORTEST POSSIBLE TIME. THE WORK MUST BE SCHEDULED RESPECTING TRAFFIC FLOWS AND MUST MEET THE CONDITIONS OF THE ROAD OCCUPANCY PERMIT.
- ALL OF THE CONTRACTOR'S OPERATIONS AND ACTIVITIES SHALL BE IN ACCORDANCE WITH THE MOST CURRENT VERSION OF THE ONTARIO TRAFFIC MANUAL (OTM), BOOK 7 (TEMPORARY CONDITIONS)."TRAFFIC CONTROL PERSONS" SHALL BE AS DEFINED IN BOOK 7 OF THE ONTARIO TRAFFIC MANUAL.
- LAYOUTS FOR SIGNING TEMPORARY LANE CLOSURES FOR CONSTRUCTION STAGES TO BE IN ACCORDANCE WITH OTM BOOK 7.
- 4. WHERE REQUIRED, EXISTING LANE MARKINGS ARE TO BE REMOVED AND TEMPORARY LANE MARKINGS PAINTED. AT THE COMPLETION OF PROJECT, TEMPORARY LANE MARKINGS ARE TO BE REMOVED AND PERMANENT LANE MARKINGS REINSTATED BY PAINTING.
- THE CONTRACTOR SHALL SCHEDULE THE WORK SO THAT THERE WILL BE NO OPEN EXCAVATION OVERNIGHT OR ON NON-WORKING DAYS, ADJACENT TO A LANE CARRYING TRAFFIC, EXCEPT WHERE A TRAFFIC BARRIER DESIGNED TO RESTRAIN ERRANT VEHICLES IS LOCATED BETWEEN THE TRAFFIC FLOW AND EXCAVATION.
- MATERIALS SHALL NOT BE STORED WITHIN 4 METRES OF THE TRAVELED PORTION OF ANY ROAD. THE CONTRACTOR SHALL PREPARE AND SUBMIT TO THE COUNTY A DETAILED TRAFFIC MANAGEMENT PLAN FOR
- PASSAGE OF PEDESTRIANS THROUGH THE CONSTRUCTION AREA. 8. A TRAFFIC PROTECTION PLAN FOR WORKER SAFETY IS ALSO REQUIRED IN ACCORDANCE WITH THE OHSA.

REVIEW AT LEAST 15 DAYS PRIOR TO CONSTRUCTION. THIS IS TO BE ACCOMPANIED BY STAGING PLANS FOR

THE CONTROL OF THROUGH TRAFFIC FOR THE PROJECT AND WHERE APPLICABLE, DETAILS FOR THE SAFE

- 9. HOMEWOOD AVENUE AND POTTS ROAD SHALL BE KEPT OPEN TO THROUGH TRAFFIC AND MAINTAINED WITH A MINIMUM OF ONE LANE FOR LOCAL TRAFFIC ONLY, EXCEPT WHEN APPROVED FOR THE INSTALLATION OF SERVICE CONNECTIONS. IT IS ANTICIPATED THAT THE CONTRACTOR WILL EXPEDITE THE SERVICE CONNECTION. WORK REQUIRING FULL ROAD CLOSURE AND LIMIT ANY FULL CLOSURES TO LESS THAN ONE WORKING DAY AT
- 10. THE WORK SHALL BE UNDERTAKEN IN A LOGICAL SEQUENCE THROUGHOUT THE CONSTRUCTION PERIOD AND MUST MEET CONDITIONS OF ROAD OCCUPANCY PERMIT. SAFE TRAFFIC CONTROL SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION, INCLUDING REMOVALS AND THE APPLICATION OF PAVEMENT MARKINGS AS NECESSARY TO MAINTAIN VEHICULAR TRAFFIC IN ITS DESIGNATED LANES. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING, MAINTAINING AND RELOCATING WHERE NECESSARY, SUFFICIENT SIGNS, DELINEATORS. BARRICADES. LIGHTS. ETC. AND PROVIDING TRAFFIC CONTROL PERSONS (TCP'S) AND/OR POLICE 9. THE CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE GEOTECHNICAL WORK UNDERTAKEN AND PROVIDED OFFICERS AS REQUIRED, SO THAT MOTORISTS AND PEDESTRIANS ARE PROPERLY DIRECTED TO ENSURE
 - 11. THE CONTRACTOR SHALL PROVIDE TO THE COUNTY CONTACT DETAILS FOR A MINIMUM OF 3 STAFF MEMBERS, TO BE MADE AVAILABLE 24/7 THROUGHOUT THE DURATION OF THE PROJECT.
 - 12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY APPROVALS IN ADVANCE OF COMMENCING WORK AS DETERMINED BY THE COUNTY (ROAD OCCUPANCY PERMIT ETC).
 - 13. ALL TRENCHES CONSTRUCTED IN THE EXISTING ROADWAYS SHALL BE RESTORED TO MATCH THE EXISTING ROAD STRUCTURE UNLESS INDICATED OTHERWISE. RESTORATION SHALL BE COMPLETED WITHIN TWENTY-FOUR (24) HOURS OF THE COMPLETION OF THE WATERMAIN INSTALLATION. ASPHALT REPLACEMENT AND RESTORATION TO FOLLOW IMMEDIATELY WHERE CROSSING INTERSECTIONS.
 - ILLEGIBLE ARE REINSTATED, CLEANED AND/OR REPLACED IN A TIMELY MANNER.
 - 15. ALL TRAFFIC CONTROL DEVICES AND SIGNAGE MUST BE MAINTAINED IN THEIR REQUIRED PROPER LOCATION, CLEANED, WEIGHTED DOWN BY SANDBAGS ONLY AND MAINTAINED THROUGHOUT THE DURATION OF THE WORK.
 - 16. THE CONTRACTOR SHALL PROVIDE PORTABLE VARIABLE MESSAGE SIGNS (PVMS) BOARDS AT LEAST TWO WEEKS PRIOR TO CONSTRUCTION TO ADVISE MOTORISTS OF PENDING ROAD CLOSURE/LANE RESTRICTIONS INCLUDING THE DATE AND TIME. ADDITIONAL PVMS BOARDS SHALL BE DEPLOYED AT MAJOR INTERSECTIONS ONE WEEK PRIOR TO THE ROAD CLOSURE.



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VICTORIA SI

OAKWOOD AVE

OAKWOOD

CEMETERY

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IENT REF: EIS-ENG-24-39

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ROJECT NAME: ROAD RECONSTRUCTION OF POTTS ROAD AND HOMEWOOD AVENUE

GENERAL NOTES AND SPECIFICATIONS

| DRAWING No: | G1 | | SHEET #: 2 OF 18 |
|----------------------|--------|---------------------------|--|
| AT | AK | AT | 25mm |
| 23-2007 DESIGNED BY: | 1:250 | 13-02-2024 CHECKED BY: | 25mm LONG, ADJUST THE PLOTTING SCALE. |
| PROJECT NO: | SCALE: | DATE: | IF THIS BAR IS NOT |

EXISTING

SITE

| | PROPERTY LINE |
|-----------------|--------------------------|
| | LOT LINE |
| | EXTERIOR LOT LINE |
| | CENTRELINE OF ROAD |
| | EDGE OF PAVEMENT |
| | EDGE OF GRAVEL |
| | EDGE OF SHOULDER |
| | PAVED DRIVEWAY |
| | GRAVEL DRIVEWAY |
| | CURB |
| | SIDEWALK |
| | BUILDING |
| | CONCRETE |
| XX | FENCE |
| · · · · | TOP OF BANK |
| | BOTTOM OF BANK |
| | DITCH |
| S | SWALE |
| | PROPERTY MARKER |
| - 0- | EXISTING SIGN |
| \odot | EXISTING DECIDUOUS TREE |
| ZMZ Zwyz | EXISTING CONIFEROUS TREE |
| MB | EXISTING MAILBOX |
| •FP | EXISTING FLAG POST |
| ⊕ BH | EXISTING BOREHOLE |

<u>UTILITIES</u>

| DELL |
|---------------------------|
| CABLE |
| FIBER |
| GASMAIN |
| HYDRO |
| OVERHEAD WIRES |
| SURFACE MOUNTED HAND HOLD |
| EXISTING BELL PEDESTAL |
| EXISTING PEDESTAL |
| EXISTING HYDRO POLE |
| EXISTING LIGHT STANDARD |
| EXISTING ANCHOR |
| |

<u>WATER</u>

| W | EXISTING | WATERMAIN | |
|-------------|----------|---------------|--|
| ₩ W∨ | EXISTING | WATER VALVE | |
| -Ó-FH | EXISTING | FIRE HYDRANT | |
| ⊕ CS | EXISTING | SERVICE VALVE | |
| | | | |

<u>STORM</u>

| ST | STORM SEWER |
|----|---------------------------------------|
| | EXISTING CATCH BASIN |
| | EXISTING CATCH BASIN MAINTENANCE HOLE |
| • | EXISTING STORM MAINTENANCE HOLE |

SANITARY

| —————————————————————————————————————— | SANITARY SEWER |
|--|------------------------------------|
| | EXISTING SANITARY MAINTENANCE HOLE |

<u>REMOVED</u>

SITE

ASPHALT TO BE REMOVED

| | GRAVEL TO BE REMOVED |
|--|--|
| | SHOULDER TO BE REMOVED |
| | ASPHALT DRIVEWAY TO BE REMOVED |
| | GRAVEL DRIVEWAY TO BE REMOVED |
| | CURB TO BE REMOVED |
| | SIDEWALK TO BE REMOVED |
| | CONCRETE TO BE REMOVED |
| x | FENCE TO BE REMOVED / REINSTATED |
| - 0 - | SIGN TO BE REMOVED / REINSTATED |
| \otimes | DECIDUOUS TREE TO BE REMOVED |
| ₩ | CONIFEROUS TREE TO BE REMOVED |
| | |
| \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | VEGETATION TO BE REMOVED |
| | ASPHALT DRIVEWAY TO BE REMOVED |
| | |
| | ASPHALT ROADWAY TO BE REMOVED |
| | |
| *************************************** | ASPHALT ROADWAY TO BE MILLED |
| 4 | CONCRETE DRIVEWAY / SIDEWALK TO BE REMOVED |
| | GRAVEL DRIVEWAY TO BE REMOVED |
| Perfitting the Court of the Cou | |
| | |
| | |

ANCHOR TO BE REMOVED LIGHT STANDARD TO BE REMOVED

<u>WATER</u>

| WATERMAIN TO BE REMOVED |
|-----------------------------|
| VALVE TO BE REMOVED |
| FIRE HYDRANT TO BE REMOVED |
| SERVICE VALVE TO BE REMOVED |
| |

<u>STORM</u>

ST STORM SEWER TO BE REMOVED

<u>SANITARY</u>



<u>PROPOSED</u>

<u>SITE</u>

| | PROPOSED CENTRELINE OF ROAD |
|--|----------------------------------|
| | PROPOSED EDGE OF PAVEMENT |
| | PROPOSED EDGE OF GRAVEL |
| | PROPOSED EDGE OF SHOULDER |
| - | PROPOSED ASPHALT DRIVEWAY |
| | PROPOSED GRAVEL DRIVEWAY |
| | PROPOSED CURB |
| | PROPOSED DROP CURB |
| | PROPOSED SIDEWALK |
| - | PROPOSED CONCRETE |
| xx | PROPOSED / REINSTATED FENCE |
| | PROPOSED TOP OF SLOPE |
| | PROPOSED BOTTOM OF SLOPE |
| | PROPOSED DITCH |
| s | PROPOSED SWALE |
| | PROPOSED RETAINING WALL |
| - o - | PROPOSED / REINSTATED SIGN |
| \odot | NEW DECIDUOUS TREE |
| ** | NEW CONIFEROUS TREE |
| \(\psi\) \(\ | NEW VEGETATION |
| | NEW ASPHALT DRIVEWAY / ROADWAY |
| | NEW CONCRETE DRIVEWAY / SIDEWALK |

NEW GRAVEL DRIVEWAY

<u>WATER</u>

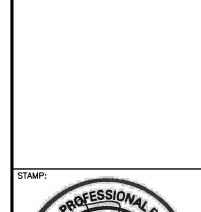
| • | |
|-----------------|-------------------------|
| w | PROPOSED WATERMAIN |
| € WV | PROPOSED VALVE |
| ∴ FH | PROPOSED FIRE HYDRANT |
| € CS | PROPOSED SERVICE VALVE |
| H | PROPOSED TEE |
| ∓ | PROPOSED SLEEVE/COUPLER |
| H -1 | PROPOSED REDUCER |

<u>STORM</u>



<u>SANITARY</u>

| SA | PROPOSED SANITARY SEWER PIPE |
|----|------------------------------------|
| | PROPOSED SANITARY MAINTENANCE HOLE |



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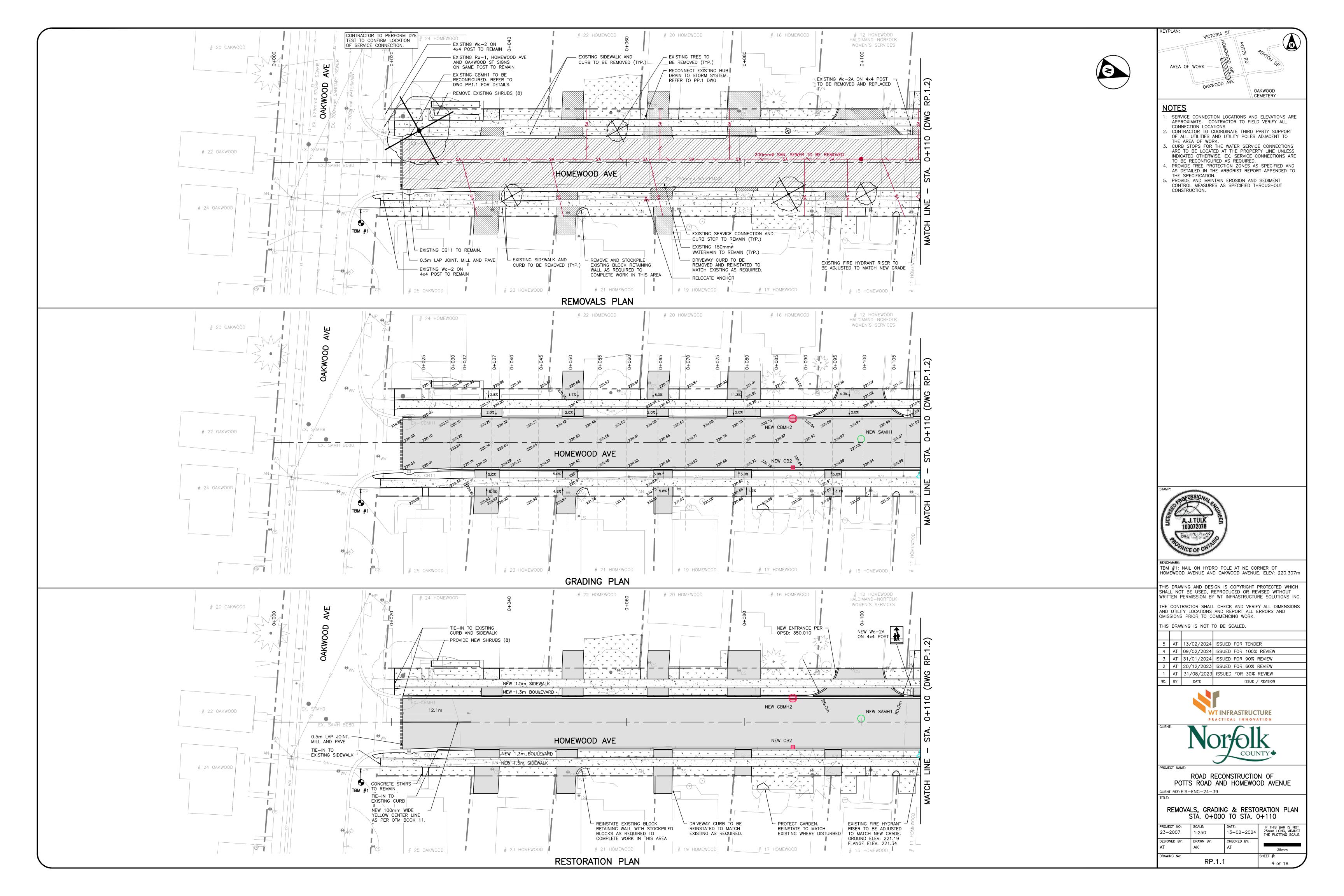


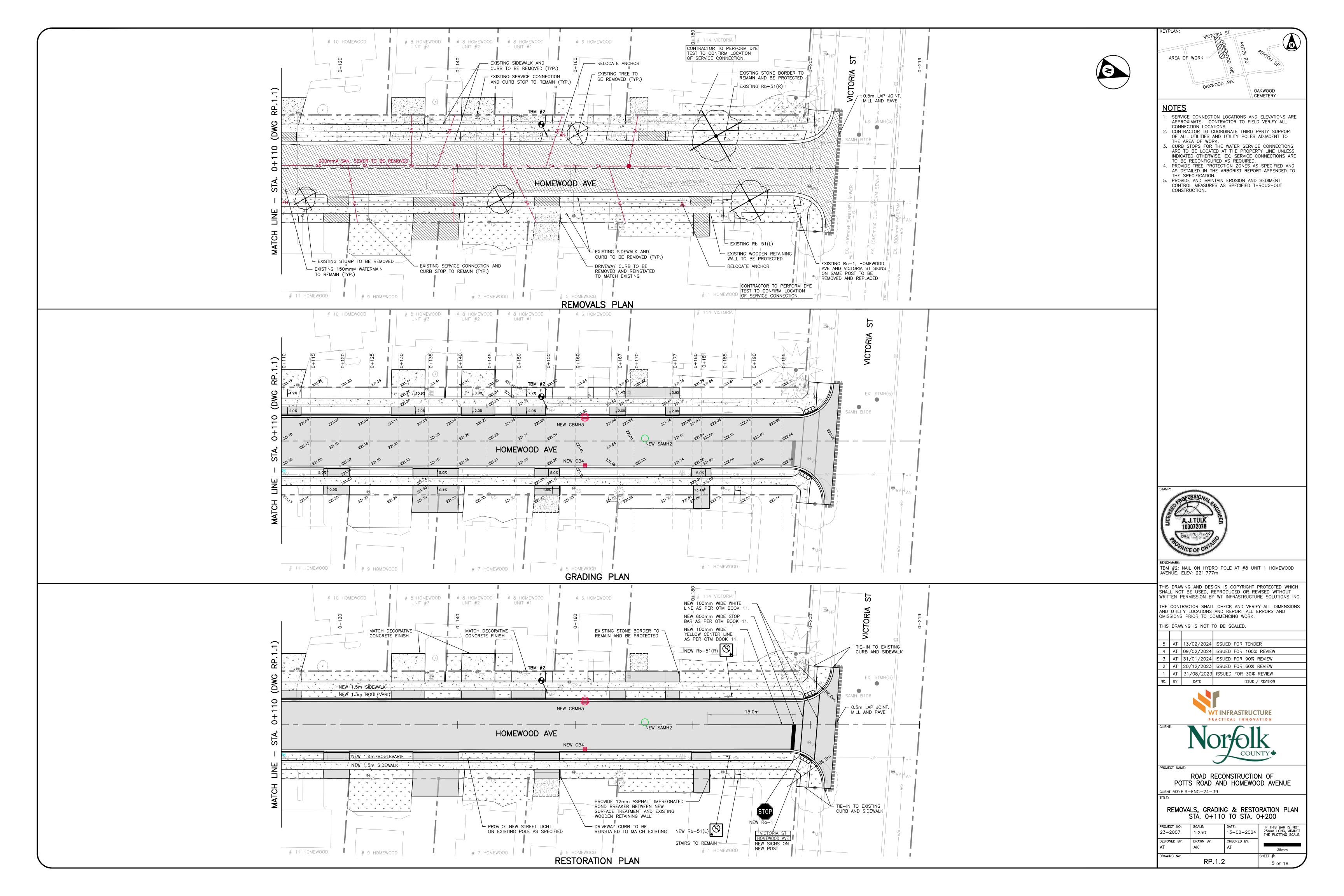
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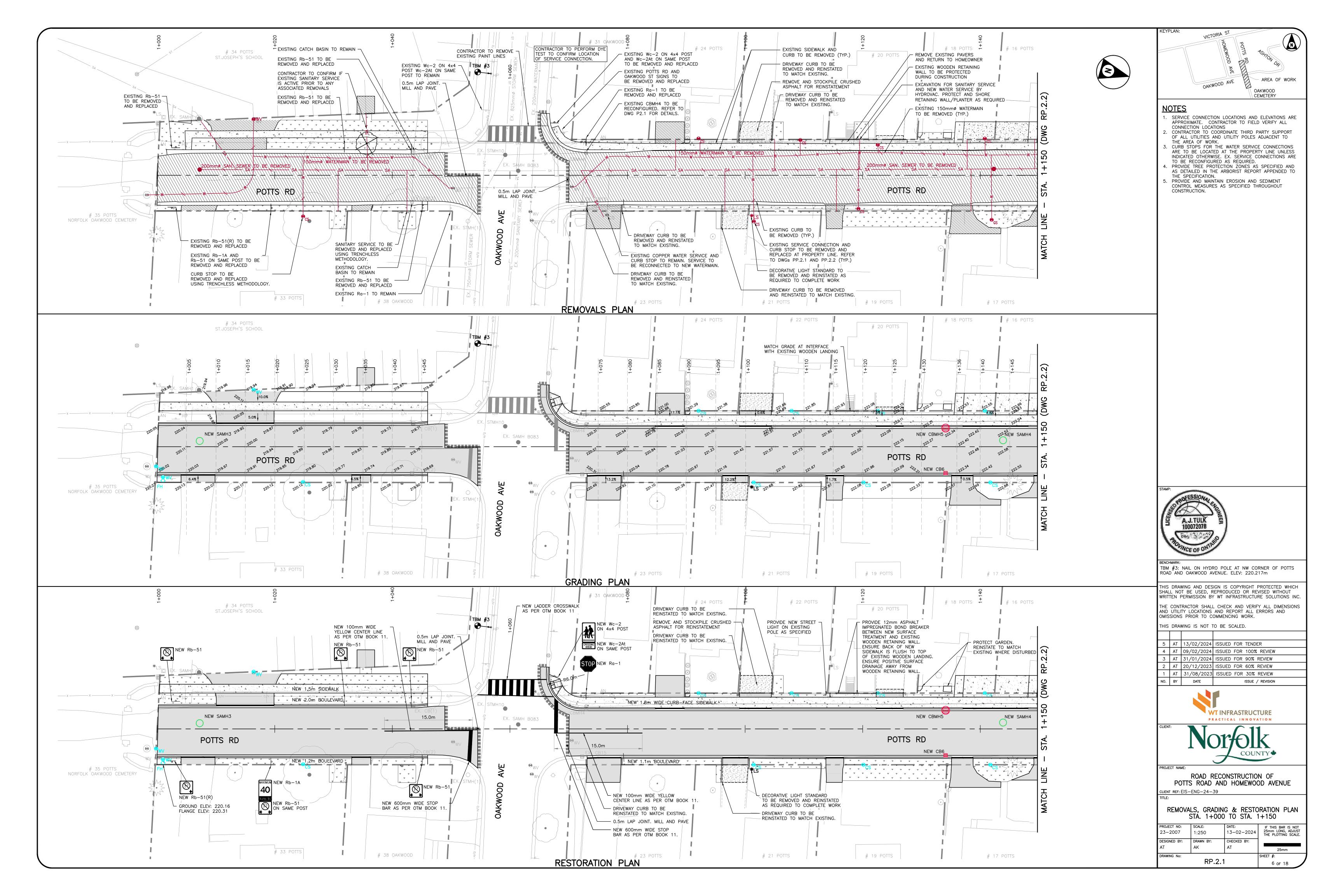
ROAD RECONSTRUCTION OF POTTS ROAD AND HOMEWOOD AVENUE

LEGEND

| DRAWING No: | G2 | | SHEET #: 3 of 18 |
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| PROJECT NO: 23-2007 | SCALE: 1:250 | DATE: 13-02-2024 | IF THIS BAR IS NOT 25mm LONG, ADJUST THE PLOTTING SCALE. |

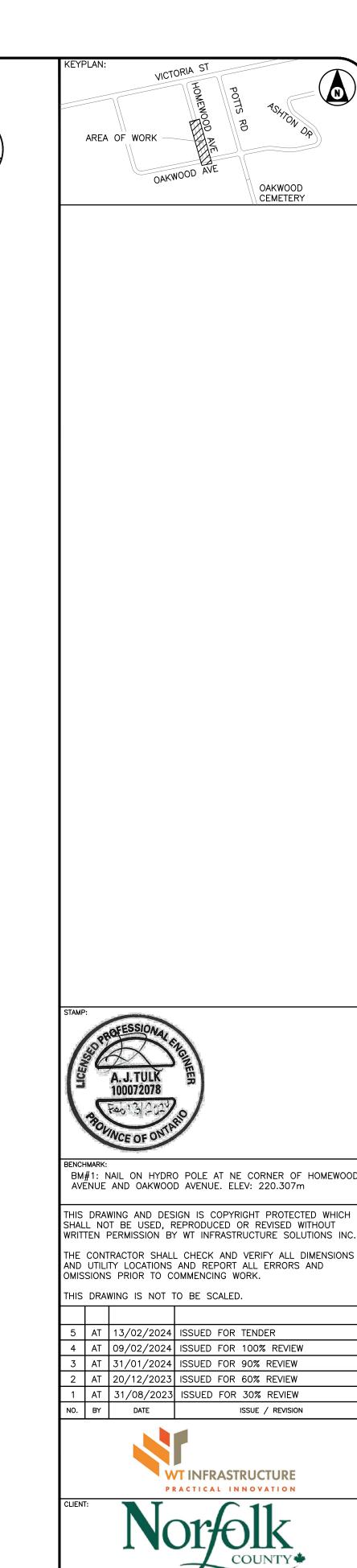












BM#1: NAIL ON HYDRO POLE AT NE CORNER OF HOMEWOOD AVËNUE AND OAKWOOD AVENUE. ELEV: 220.307m

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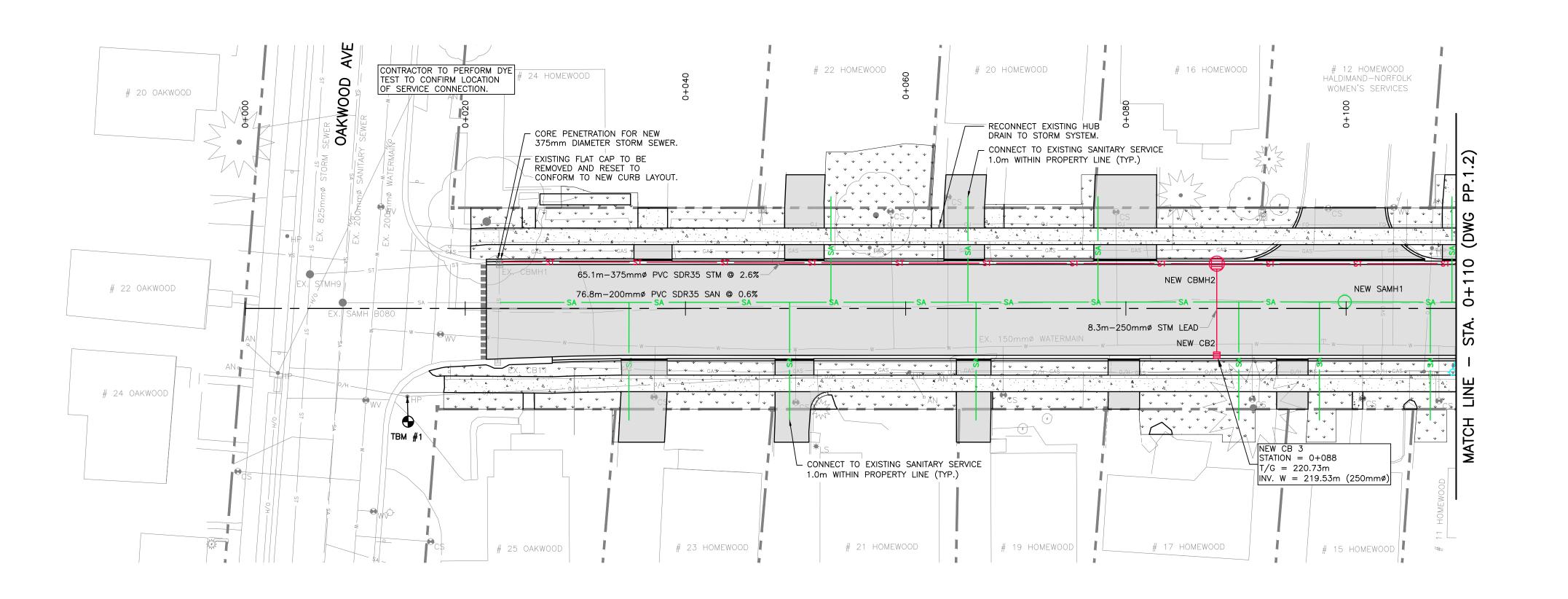
WT INFRASTRUCTURE PRACTICAL INNOVATION

PROJECT NAME:

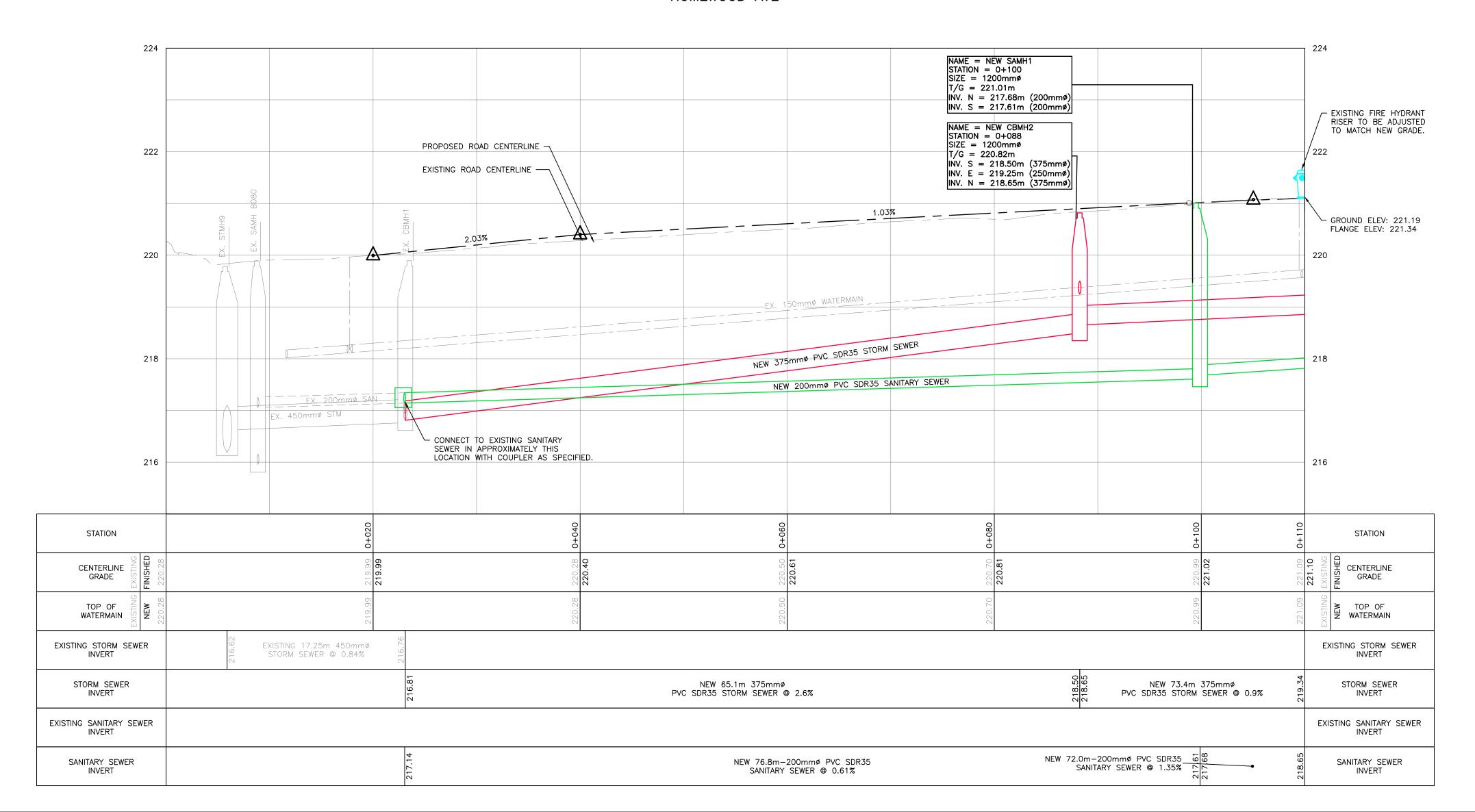
ROAD RECONSTRUCTION OF POTTS ROAD AND HOMEWOOD AVENUE LIENT REF: EIS-ENG-24-39

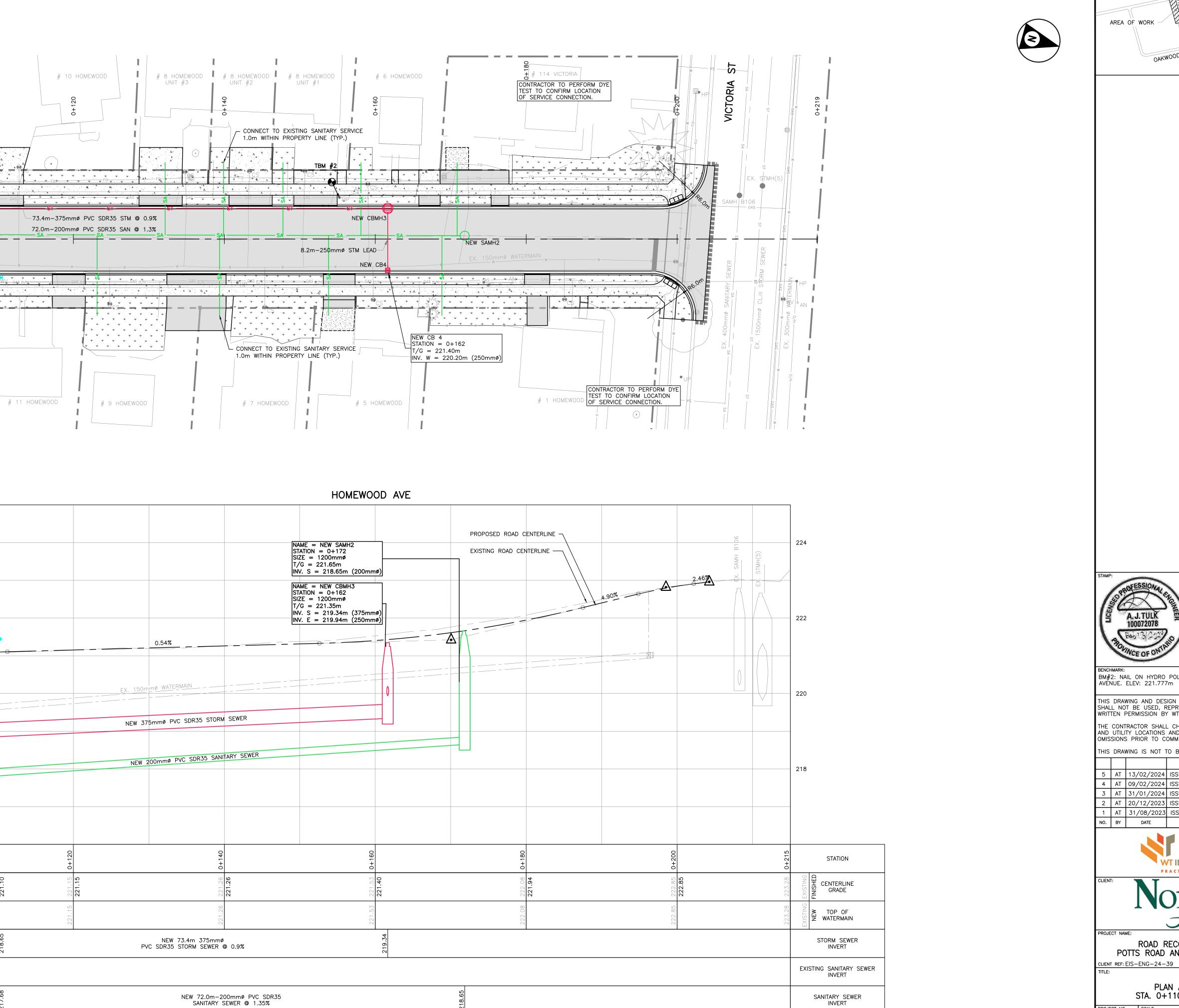
> PLAN AND PROFILE STA. 0+000 TO STA. 0+110

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| | 8 OF 18 | | |



HOMEWOOD AVE





222

STATION

CENTERLINE GRADE

TOP OF WATERMAIN

STORM SEWER INVERT

EXISTING SANITARY SEWER

INVERT

SANITARY SEWER INVERT

BM#2: NAIL ON HYDRO POLE AT #8 UNIT 1 HOMEWOOD

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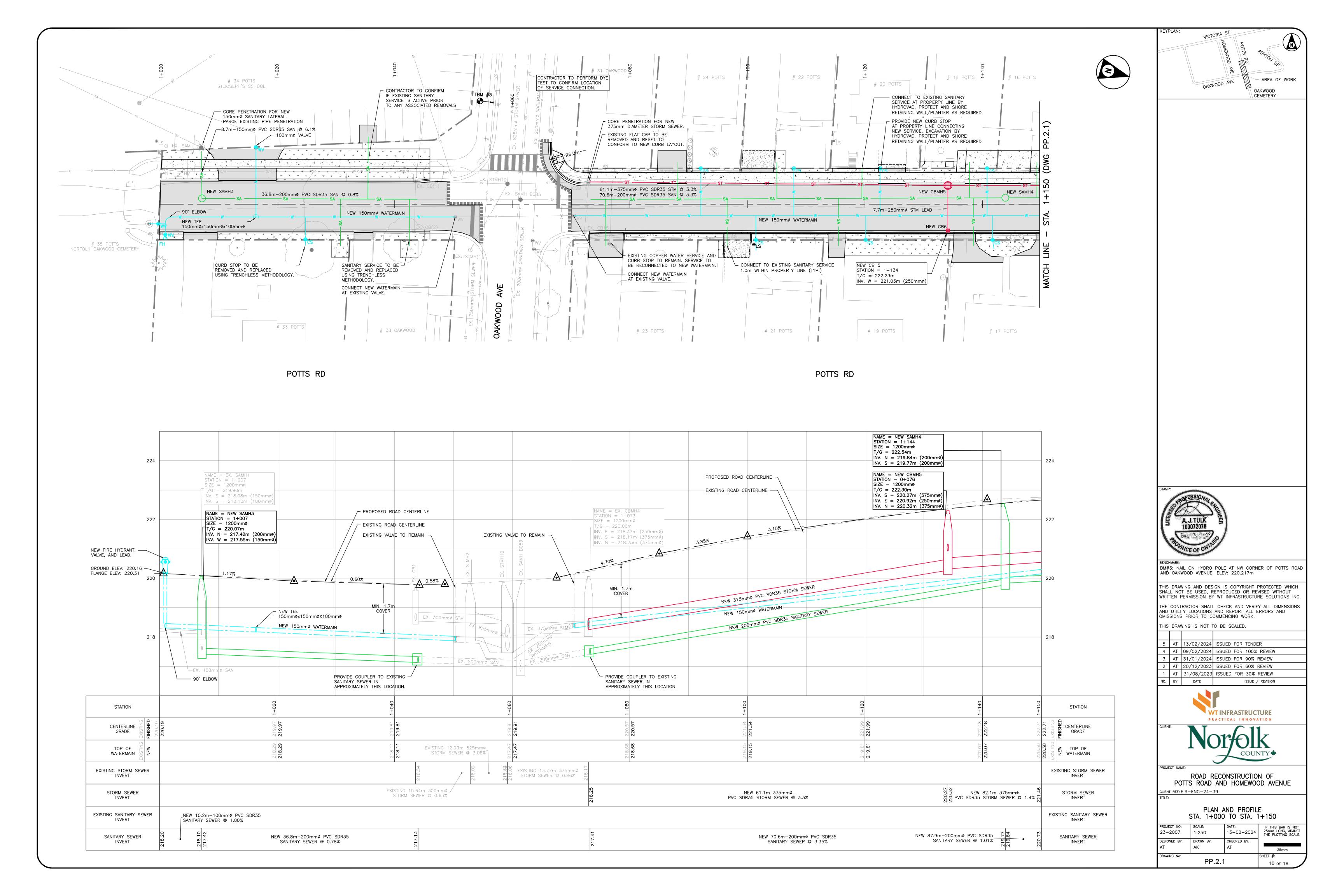


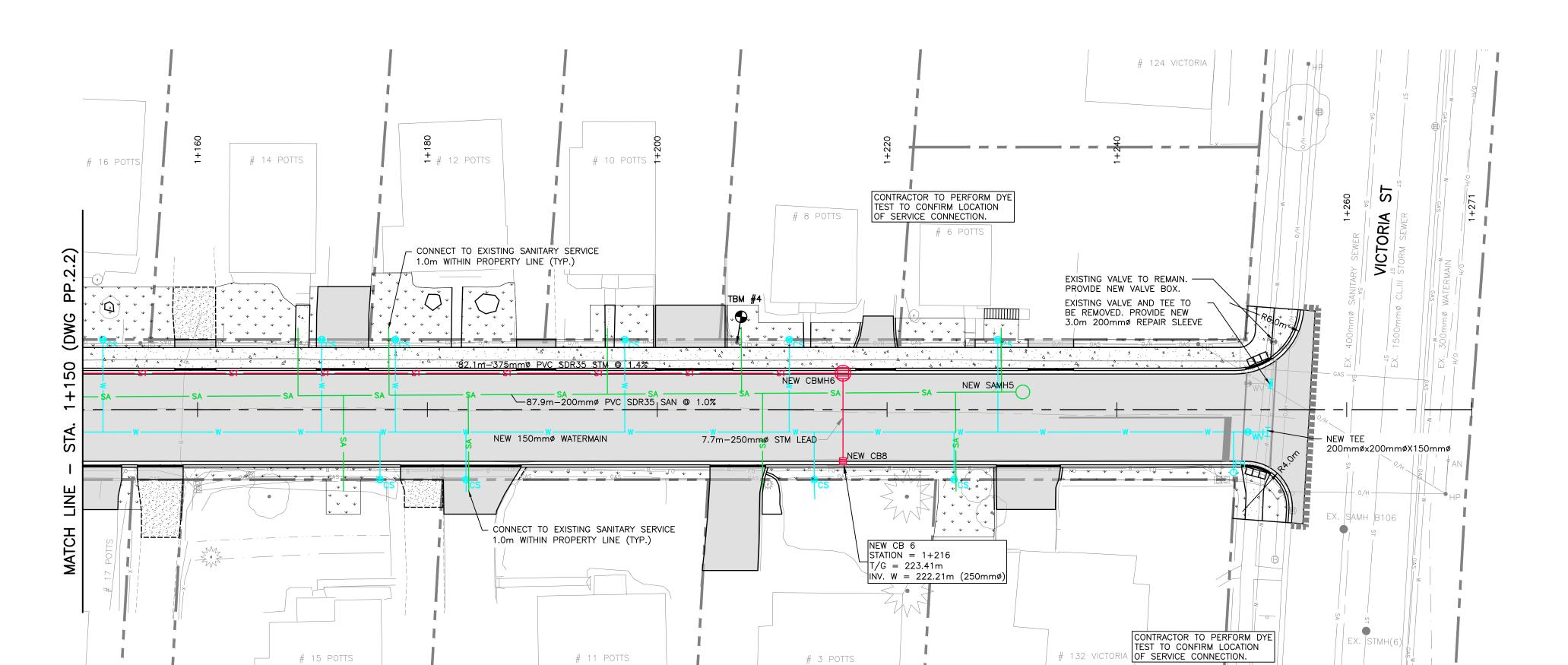


ROAD RECONSTRUCTION OF POTTS ROAD AND HOMEWOOD AVENUE LIENT REF: EIS-ENG-24-39

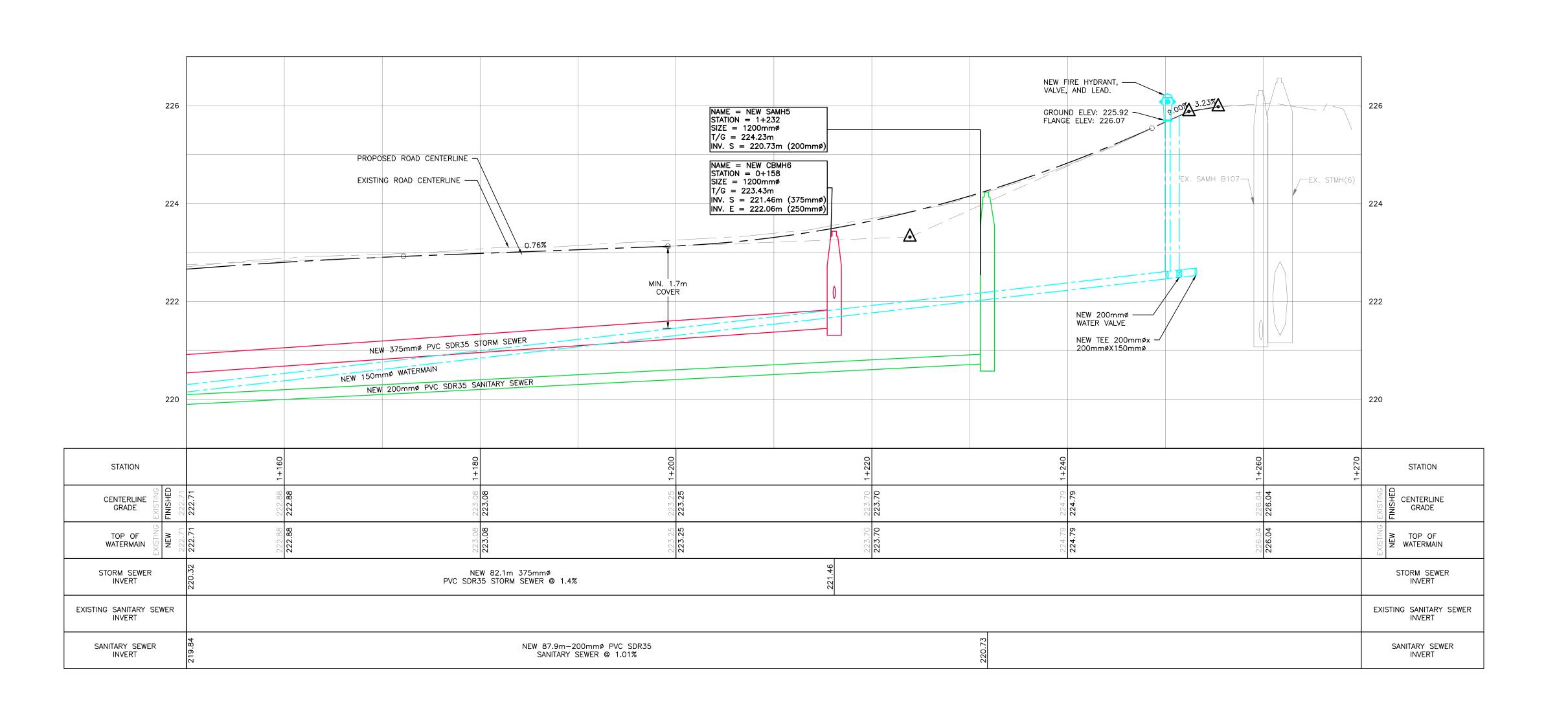
> PLAN AND PROFILE STA. 0+110 TO STA. 0+200

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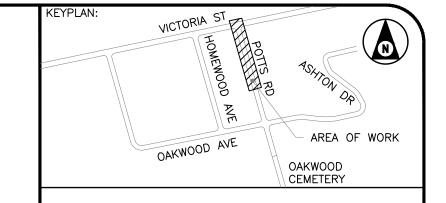














BM#1: NAIL ON HYDRO POLE AT #8 POTTS ROAD. ELEV: 223.664m

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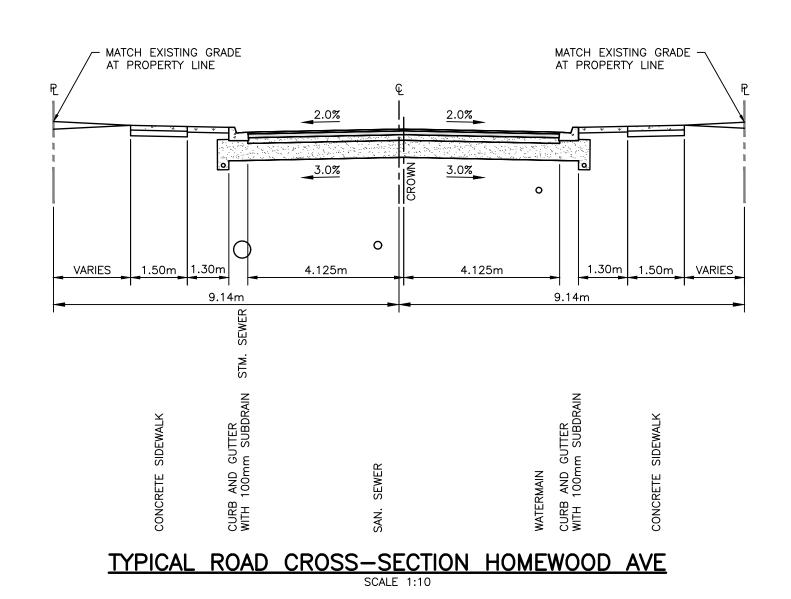


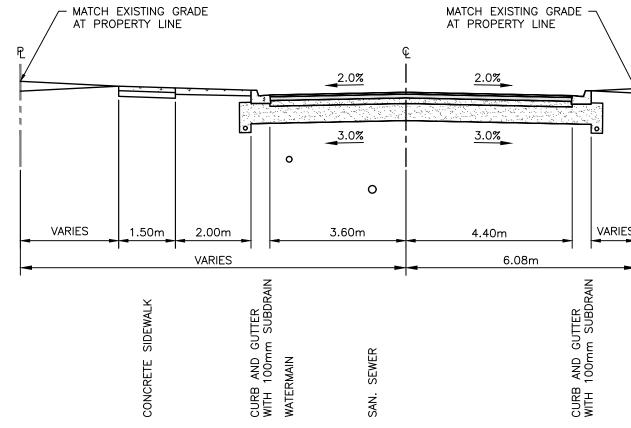
PROJECT NAME:

ROAD RECONSTRUCTION OF POTTS ROAD AND HOMEWOOD AVENUE

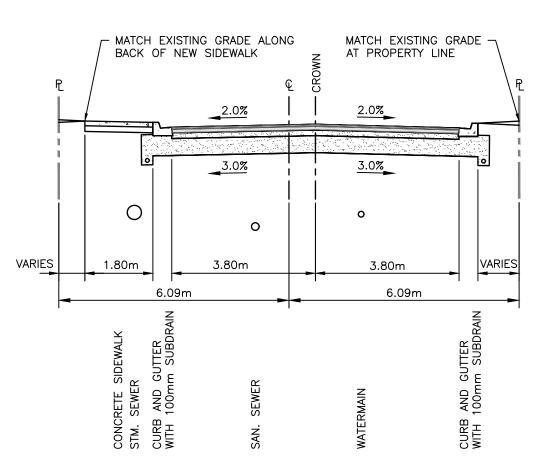
PLAN AND PROFILE STA. 1+150 TO STA. 1+270

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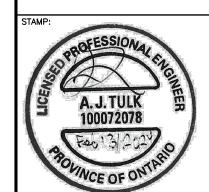






TYPICAL ROAD CROSS—SECTION POTTS RD NORTH OF OAKWOOD

SCALE 1:10



BENCHM

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OAKWOOD CEMETERY

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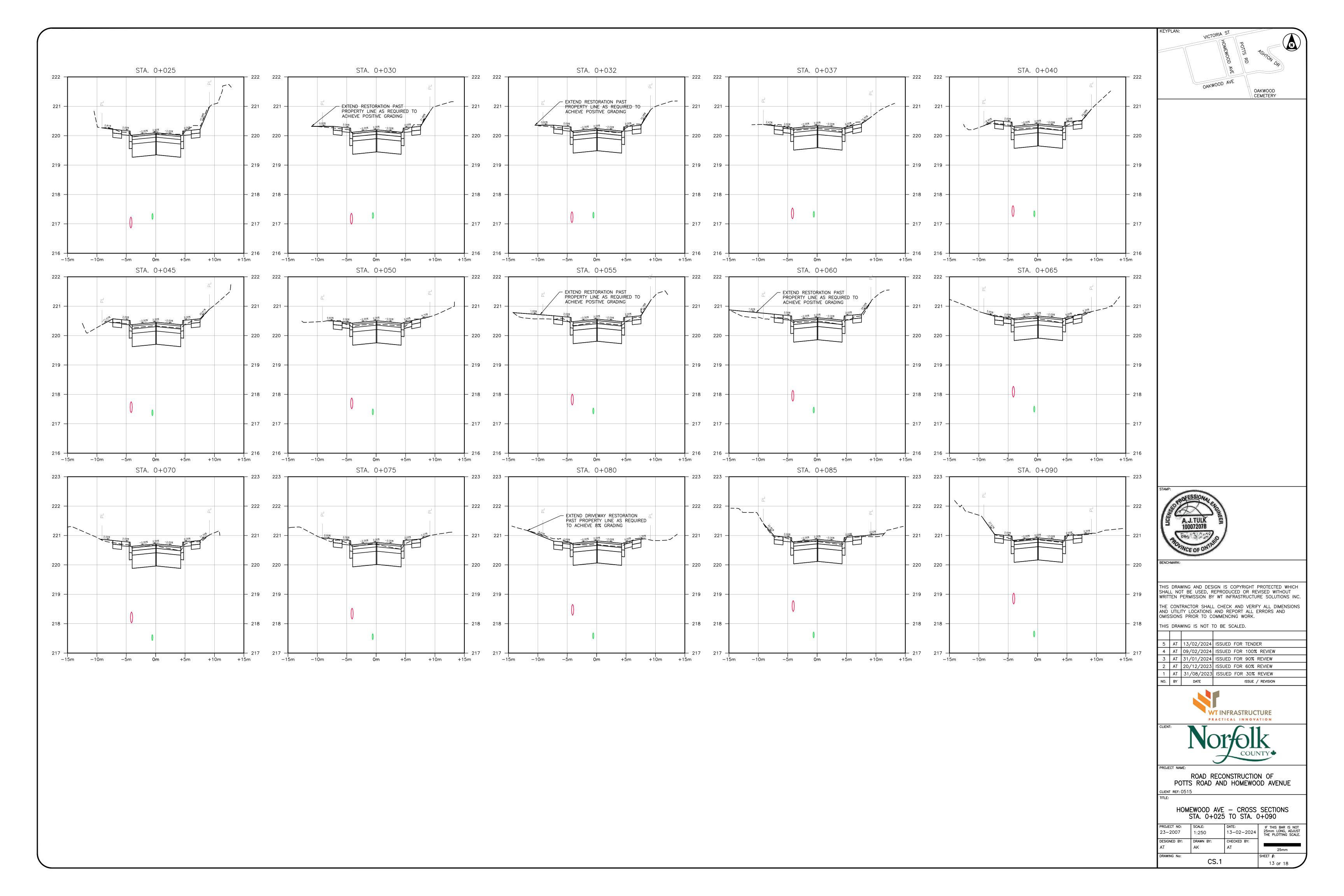


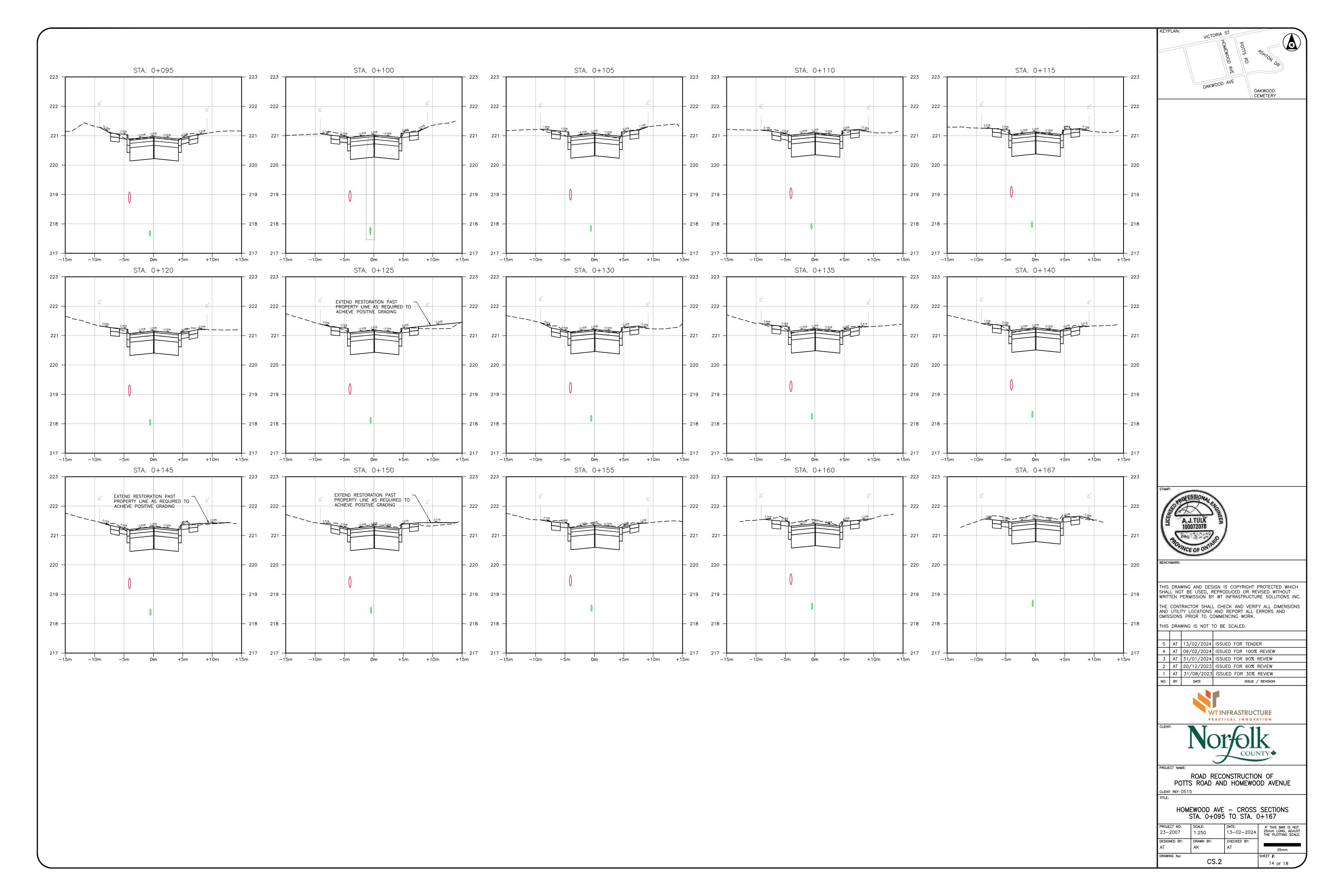
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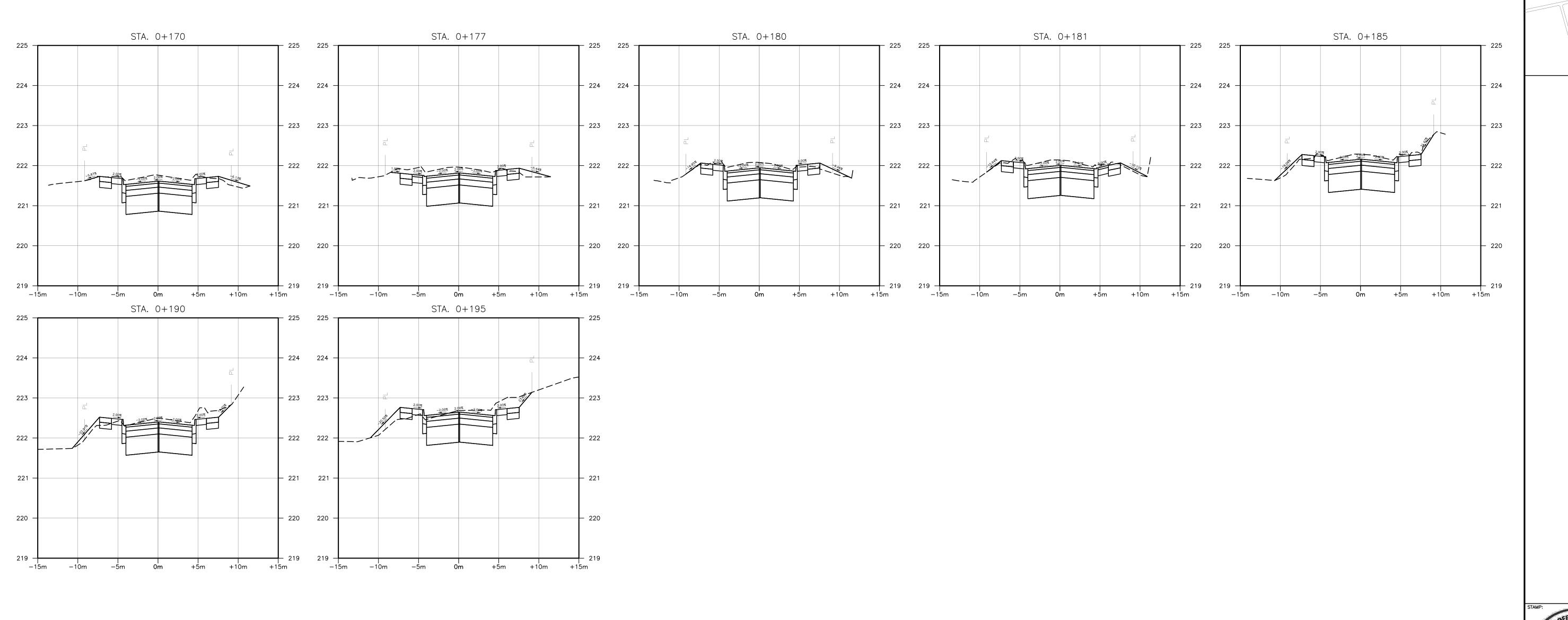
ROAD RECONSTRUCTION OF POTTS ROAD AND HOMEWOOD AVENUE

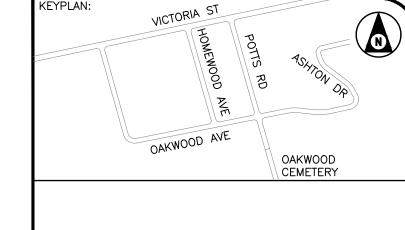
DETAILS

| PROJECT NO: | SCALE: | DATE: | IF THIS BAR IS NOT |
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| | DS.1 | | 12 of 18 |











BENCHMAR

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 1
 AT
 31/08/2023
 ISSUED FOR 30% REVIEW

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 BY
 DATE
 ISSUE / REVISION





PROJECT NAME:

ROAD RECONSTRUCTION OF POTTS ROAD AND HOMEWOOD AVENUE

HOMEWOOD AVE - CROSS SECTIONS STA. 0+170 TO STA. 0+195

| DRAWING No: CS.3 | | | SHEET #: 15 of 18 |
|----------------------|--------------------|---------------------------|---|
| AT | AK | AT AT | 25mm |
| 23-2007 DESIGNED BY: | 1:250 DRAWN BY: | 13-02-2024 CHECKED BY: | THE PLOTTING SCALE. |
| PROJECT NO: | SCALE: | DATE: | IF THIS BAR IS NOT 25mm LONG, ADJUST |

