

GENERAL NOTES

- 1.FOR DIMENSIONS AND DETAILS NOT SHOWN ON THE DRAWINGS, REFER TO THE ARCHITECT'S SITE PLAN. DETAILS WITH THE PREFIX 'OS' ARE CITY OF OSHAWA STANDARD DRAWINGS; THOSE PREFIXED BY 'S' ARE REGION OF DURHAM STANDARD DRAWINGS. ALL OTHER CONSTRUCTION DETAILS NOT REFERRED TO ON THE DRAWINGS, REFERENCE SHALL BE MADE TO THE LATEST DESIGN STANDARDS OF THE CITY OF OSHAWA, REGION OF DURHAM OR ONTARIO PROVINCIAL STANDARDS.
2.DIMENSIONS AND ELEVATIONS ARE IN METERS.
3.PIPE SIZES ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
4.ALL DIMENSIONS AND PIPE INVERTS MUST BE VERIFIED PRIOR TO CONSTRUCTION. IF THERE ARE ANY DISCREPANCIES, THE CONTRACTOR IS TO NOTIFY THE ARCHITECT AND CONSULTANT.
5.EXISTING UTILITIES SHOWN ON DRAWINGS ARE FOR REFERENCE PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING SERVICES AND PROTECTING ALL UTILITIES DURING CONSTRUCTION. GAS, HYDRO, TELEPHONE OR ANY OTHER UTILITIES THAT MAY EXIST ON SITE OR WITHIN THE STREET LINES, MUST BE LOCATED BY ITS OWN UTILITY AUTHORITY AND VERIFIED PRIOR TO CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES CAUSED TO EXISTING UTILITIES DURING CONSTRUCTION.
6.ALL EXCAVATIONS SHALL BE IN ACCORDANCE WITH THE CURRENT "OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS".
7.TOPSOIL IN FILL AREAS TO BE STRIPPED AND CLEAN FILL TO BE PLACED AND COMPACTED TO 98% STANDARD PROCTOR DRY DENSITY.
8.NO ORGANIC MATERIAL SHALL BE USED AS BACKFILL.
9.ALL EXISTING PAVEMENT, CURBS, SIDEWALKS, DRIVEWAYS AND BOULEVARD AREAS DISTURBED BY CONSTRUCTION MUST BE REINSTATED TO THE SATISFACTION OF THE CITY OF OSHAWA AND/OR REGION OF DURHAM. AREAS TO BE RESTORED WITH A MINIMUM OF 250mm TOPSOIL UNLESS OTHERWISE NOTED.
10.CONTRACTOR SHALL DISPOSE OF EXCESS MATERIAL, PIPE, ETC. OFF SITE.
11.THE CONTRACTOR SHALL CONTACT THE CITY OF OSHAWA AND THE REGION OF DURHAM TO SCHEDULE A PRE-CONSTRUCTION MEETING A MINIMUM 2 WEEKS PRIOR TO COMMENCEMENT OF THE PROPOSED WORKS.
12.BOULEVARDS TO BE GRADED, TOPSOILED 220mm TOTAL DEPTH AND SODDED AS PER OS-225.
13.A MINIMUM SETBACK OF 1.0M FROM STREET FURNITURE TO PROPOSED DRIVEWAYS AND SIDEWALKS SHALL BE MAINTAINED. ALL EXISTING STREET FURNITURE TO BE RELOCATED BY THE CONTRACTOR TO A SETBACK OF 1.0m. THE COST OF RELOCATION OF ANY UTILITY IS THE RESPONSIBILITY OF THE DEVELOPER/OWNER.
14.ALL BARRIER FREE ENTRANCES AND BARRIER FREE PATHS OF TRAVEL MUST COMPLY WITH O.B.C.3.8. AND WITH THE CITY OF OSHAWA ACCESSIBILITY STANDARDS.
15.ALL CONCRETE SIDEWALK RAMPS TO BE CONSTRUCTED TO CITY OF OSHAWA STD. OS-304.
16.THE CONTRACTOR SHALL SUPPLY ALL FIRE ROUTE AND HANDICAP SIGNS AS SET OUT IN THE CITY OF OSHAWA BY-LAWS AND DESIGN CRITERIA.
17.ALL EXTERIOR ILLUMINATION TO BE DIRECTED DOWNWARD AS WELL AS INWARD AND DESIGNED TO MAINTAIN ZERO CUTOFF LIGHT DISTRIBUTION AT THE PROPERTY LINE.
18.THE CONTRACTOR SHALL CARRY OUT TV CAMERA INSPECTIONS FOR ALL SEWERS INSTALLED UNDER THIS CONTRACT. THE CAMERA CAN EITHER BE PULLED OR SELF-PROPELLED THROUGH THE PIPES. THE EQUIPMENT IS TO HAVE FEATURES TO ENABLE CLOSE EXAMINATION OF FAULTS AND TO VIEW LATERAL CONNECTIONS. THE EQUIPMENT IS TO PROVIDE "MEASURED" LOCATION OF THE CAMERA RELATIVE TO MANHOLES IN ORDER TO LOCATE FAULTS, LATERALS, ETC. ALL DVD'S SHALL BE SUBMITTED DIRECTLY TO THE CONSULTANT ALONG WITH A WRITTEN REPORT OF ANY PROBLEM AREAS.
19.THE CONTRACTOR SHALL VERIFY BENCHMARK WITH THE CITY OF OSHAWA PRIOR TO CONSTRUCTION.

GRADING

- 1.SUITABILITY & COMPACTION OF FILL MATERIALS TO BE CONFIRMED BY A GEOTECHNICAL CONSULTANT PRIOR TO PLACEMENT OF ROAD BASE.
2.EXPOSED NATURAL SUBGRADE TO BE INSPECTED AND APPROVED BY THE GEOTECHNICAL CONSULTANT AND SUBSEQUENTLY PROOF-ROLLED FOR FILL PLACEMENT. ANY UNSUITABLE SOILS SHOULD BE REMOVED AND REPLACED WITH COMPACTED APPROVED FILL COMPATIBLE WITH THE SUBGRADE CONDITIONS.
3.ALL APPROVED FILL TO BE PLACED IN LAYERS NOT EXCEEDING 300MM BEFORE COMPACTION AND TO BE UNIFORMLY COMPACTED TO THE SATISFACTION OF THE GEOTECHNICAL CONSULTANT. THIS OPERATION TO BE SUPERVISED BY GEOTECHNICAL PERSONNEL.
4.THE FILL SHOULD NOT BE CONSTRUCTED DURING WINTER MONTHS WHEN PERSISTENT OR INTERMITTENT FREEZING TEMPERATURES OCCUR. IF THE FILL AREAS ARE LEFT FOR A PERIOD OF TIME, A SUITABLE SOIL COVER MUST BE PROVIDED TO PREVENT FROST ACTION AND DISTURBANCE.
5.THE SELECTED FILL MATERIAL SHOULD BE APPROVED BY THE GEOTECHNICAL CONSULTANT.
6.ALL FILL MATERIAL IS TO BE REMOVED AND TRANSPORTED TO THE SITE FROM SITE C1 LOCATED AT THE NORTHWEST CORNER OF WINDFIELDS FARM DRIVE WEST AND THOROUGHREBRED STREET

SANITARY SEWERS

- 1. ALL SANITARY SEWER MATERIALS AND CONSTRUCTION METHODS MUST CORRESPOND TO CURRENT REGION OF DURHAM STANDARDS AND SPECIFICATIONS.
2. ALL POLYVINYL CHLORIDE PIPE (PVC) UP TO AND INCLUDING 375mm DIAMETER SHALL CONFORM TO CSA SPECIFICATION B182.2 OR LATEST AMENDMENT UNLESS OTHERWISE NOTED. DIMENSION RATIO (DR) SHALL NOT EXCEED 35.
3. ALL 1200 DIA. PRECAST MAINTENANCE HOLES AS PER OPSD 701.010.
4. ALL SANITARY MANHOLES TO HAVE WATERTIGHT COVERS AS PER OPSD 401.030.
5. BEDDING FOR SANITARY SEWERS IN SEPARATE TRENCH SHALL BE CLASS 'P' AS PER S-200.010. UNLESS OTHERWISE DIRECTED BY GEOTECHNICAL CONSULTANT.
6. BEDDING FOR SANITARY SEWERS IN COMMON TRENCH SHALL BE AS PER S-100.040. UNLESS OTHERWISE DIRECTED BY GEOTECHNICAL CONSULTANT.
7. ALL SANITARY MANHOLES TO BE BENCHED TO THE OVBERT AS PER OPSD 701.021.

WATERMAINS

- 1. ALL WATERMAINS AND WATER SERVICE MATERIALS AND CONSTRUCTION METHODS MUST CORRESPOND TO CURRENT REGION OF DURHAM STANDARDS AND SPECIFICATIONS.
2. WATERMAINS UP TO AND INCLUDING 300mm SHALL BE POLYVINYL CHLORIDE CONFORMING TO CSA SPECIFICATION B137-3 AND AWWA C900 CLASS 150.
3. WATERMAINS MUST HAVE A MINIMUM VERTICAL CLEARANCE OF 0.50m OVER AND 0.50m UNDER SEWERS AND ALL OTHER UTILITIES WHEN CROSSING. WATERMAIN DEFLECTIONS SHALL BE AS PER S-200.070.
4. WATERMAINS AND WATER SERVICES ARE TO HAVE A MINIMUM COVER OF 1.8m MEASURED FROM TOP OF PIPE TO THE FINISHED CENTRE LINE ROAD GRADE.
5. GENTLE CURVATURE OF THE WATERMAIN (IE. WITHOUT FITTINGS) IS TO BE ACHIEVED ONLY BY DEFLECTING THE JOINTS. BENDING OF THE PIPE BARREL SHALL NOT BE PERMITTED ANYWHERE ON THIS PROJECT. CONTRACTOR TO ADHERE TO MANUFACTURER'S SPECIFICATIONS WHEN PERFORMING JOINT DEFLECTION.
6. ALL WATER VALVES, FITTINGS, SERVICE CONNECTIONS, TRACER WIRE, AND HYDRANTS ARE TO BE CATHODICALLY PROTECTED IN ACCORDANCE WITH REGION OF DURHAM STANDARDS. TRACER WIRE TO BE PROTECTED WITH ONE 5.4kg ZINC ANODE FOR EVERY 1000m OF TRACER WIRE. LOCATION OF TRACER WIRE ANODE TO BE DETERMINED IN THE FIELD.
7. HYDRANT TO BE INSTALLED AS PER STD. S-210.010 COMPLETE WITH GATE VALVE, ANCHOR TEE AND APPURTENANCES. HYDRANTS TO BE "STORZ" TYPE PUMPER HYDRANTS.
8. RESILIENT SEAT GATE VALVES CONFORMING TO AWWA C-509 SHALL BE USED ON ALL WATERMAINS 300mm DIAMETER AND LESS IN SIZE. VALVE AND VALVE BOX AS PER REGION OF DURHAM STD.S-220.010.
9. WATERMAIN TRENCH BEDDING AS PER REGION OF DURHAM STD. S-200.010 CLASS P, UNLESS OTHERWISE DIRECTED BY THE GEOTECHNICAL CONSULTANT.
10. WATERMAIN JOINT RESTRAINERS WITH GRANULAR THRUST BLOCKS SHALL BE AS PER REGION OF DURHAM STD. S-200.050 AND S-200.060. ALL WATERMAIN CONSTRUCTED IN FILL AREAS TO BE RESTRAINED.
11. ALL NEW WATERMAIN AND WATER SERVICES ARE TO BE PRESSURE TESTED, FLUSHED AND CHLORINATED AS A PART OF THIS PROJECT. THE CONTRACTOR IS TO INCLUDE BLOW OFFS, TEST POINT BYPASSES, TEMPORARY HYDRANTS AND ANY OTHER NECESSARY MATERIALS TO PERFORM THESE ACTIVITIES TO THE REGION'S SATISFACTION.
12. EXISTING FEATURES MUST BE ADJUSTED TO FINISHED GRADE

STORM SEWERS

- 1. ALL STORM SEWER MATERIALS AND CONSTRUCTION METHODS MUST CORRESPOND TO CURRENT CITY OF OSHAWA STANDARDS AND SPECIFICATIONS.
2. STORM MANHOLE FRAME & GRATE PER OPSD 401.010, TYPE A. CATCHBASIN MANHOLE GRATE PER OPSD 400.020 UNLESS OTHERWISE NOTED.
3. ALL STORM MANHOLES SHALL BE BENCHED PER OPSD 701.021. ALL CATCHBASIN MANHOLES DO NOT REQUIRE BENCHING AND A 300mm SUMP IS TO BE PROVIDED.
4. PVC SEWER PIPE UP TO AND INCLUDING 600mm DIAMETER SHALL CONFORM TO CSA SPECIFICATIONS B182.2 AND B182.3 AND OPSS 1841 OR LATEST AMENDMENT UNLESS OTHERWISE SPECIFIED.
5. RIBBED PVC SEWER PIPE MAY BE USED IN PLACE OF PVC SEWER PIPE UP TO AND INCLUDING 600mm DIAMETER AND SHALL CONFORM TO CSA SPECIFICATIONS B182.4 AND OPSS 1841 OR LATEST AMENDMENT UNLESS OTHERWISE SPECIFIED.
6. REINFORCED CONCRETE PIPE SHALL BE USED FOR PIPES LARGER THAN 600mm DIAMETER AND SHALL CONFORM TO CSA SPECIFICATIONS A257.2 - M1982 OR LATEST AMENDMENT UNLESS OTHERWISE NOTED. MINIMUM STRENGTH SHALL BE CLASS 65-D.
7. STORM SEWERS AND C.B. LEADS TO BE FITTED WITH APPROVED RUBBER GASKET JOINTS.
8. SINGLE CATCHBASINS TO BE PRECAST AS PER OPSD 705.010. FRAME AND GRATE AS PER OPSD 400.020 UNLESS OTHERWISE NOTED.
9. DOUBLE CATCHBASINS TO BE PRECAST AS PER OPSD 705.020. FRAME AND GRATE AS PER OPSD 400.020 UNLESS OTHERWISE NOTED.
10. CATCHBASIN CONNECTIONS: SINGLE - MIN. 250mm AT MIN. 0.35%; DOUBLE - MIN. 250mm AT MIN. 1.40% UNLESS OTHERWISE NOTED.
11. CATCHBASIN CONNECTION DETAIL AS PER OPSD 708.01 OR 708.03.
12. LATERALS AND LEADS AS PER OPSD 1006.01 OR 1006.02.
13. ALL PIPE TO PIPE CONNECTIONS TO BE CONSTRUCTED USING PREFABRICATED MANUFACTURERS TEES IF THE STORM SEWER IS 450mm AND SMALLER. CONNECTIONS TO STORM SEWERS 525mm AND LARGER MAY BE MADE USING FIELD INSTALLED TEES SUCH AS MORTARED IN BELLS OR STRAP ON SADDLES AND SHALL BE MADE WATERTIGHT.
14. ALL ROOF DRAIN MANHOLES TO HAVE WATERTIGHT COVERS AS PER OPSD 401.030.
15. BEDDING FOR RIBBED PVC AND PVC STORM SEWERS SHALL BE CLASS "P" IN COMMON TRENCH SHALL BE AS PER S-100.040 AND S-200.010. BEDDING FOR CONCRETE PIPE SHALL BE CLASS "B" IN COMMON TRENCH SHALL BE AS PER S-100.040 AND S-200.010. UNLESS OTHERWISE DIRECTED BY GEOTECHNICAL CONSULTANT.
16. STORM MAINTENANCE HOLES TO BE PRECAST CONCRETE AS PER OPSD 701.010 TO OPSD 701.015, UNLESS OTHERWISE NOTED.
17. IN ACCORDANCE WITH CITY OF OSHAWA STORM SEWER USE BY-LAW, THE ANNUAL INSPECTION AND MAINTENANCE RECORDS FOR THE OGS MUST BE MAINTAINED BY THE PROPERTY OWNER AND MADE AVAILABLE TO THE CITY UPON REQUEST.

PAVEMENT STRUCTURE

- 1. PAVEMENT DESIGN MUST BE VERIFIED BY A GEOTECHNICAL CONSULTANT PRIOR TO GRADING AND ROAD BASE CONSTRUCTION.
2. DURING PAVEMENT CONSTRUCTION, A GEOTECHNICAL CONSULTANT IS TO BE AVAILABLE ON SITE TO INSPECT THE WORK.
3. COMPACTION TESTS ARE TO BE CARRIED OUT TO THE SATISFACTION OF THE GEOTECHNICAL CONSULTANT.
4. PAVEMENT JOINT TREATMENT AS PER OS-530.
5. SHOULD CONSTRUCTION TAKE PLACE DURING THE WINTER OR WET MONTHS (I.E. OCT. 15 TO MAY 1), IT IS RECOMMENDED BY THE CITY OF OSHAWA THAT THE PAVEMENT STRUCTURES BE DESIGNED ACCORDING TO THE CITY OF OSHAWA'S TYPE E PAVEMENT DESIGN.
6. THE GRANULAR SUBBASE AND BASE MATERIALS SHOULD BE UNIFORMLY COMPACTED TO 100 PERCENT OF THEIR STANDARD PROCTOR MAXIMUM DRY DENSITIES. THE ASPHALT MATERIALS SHOULD BE COMPACTED TO BETWEEN 92 AND 96.5 PERCENT OF THEIR MARSHALL MAXIMUM RELATIVE DENSITIES, AS MEASURED IN THE FIELD USING A NUCLEAR DENSITY GAUGE.
7. EVEN THOUGH THE COMPACTION REQUIREMENTS HAVE BEEN MET, THE SUBGRADE STRENGTH MAY NOT BE ADEQUATE TO SUPPORT HEAVY CONSTRUCTION LOADING ESPECIALLY DURING WET WEATHER OR WHERE BACKFILL MATERIALS WET OF OPTIMUM HAVE BEEN PLACED. IN THIS REGARD, THE DESIGN GRANULAR B SUBBASE THICKNESS MAY NOT BE SUFFICIENT FOR A CONSTRUCTION HAUL ROAD AND ADDITIONAL GRANULAR B (IN THE ORDER OF 300 TO 450 MM) MAY BE REQUIRED. IN ANY EVENT, THE SUBGRADE SHOULD BE PROOFROLLED AND INSPECTED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING THE GRANULAR B SUBBASE AND ADDITIONAL GRANULAR PLACED, AS REQUIRED, CONSISTENT WITH THE PREVAILING WEATHER CONDITIONS AND ANTICIPATED USE BY CONSTRUCTION TRAFFIC.
8. TO PROVIDE ADEQUATE SUBSURFACE DRAINAGE, SHORT (APPROXIMATELY 3m LONG) PERFORATED SUBDRAINS SHOULD BE PROVIDED AT INTERNAL CATCHBASIN LOCATIONS ON ALL FOUR SIDES OF THE CATCHBASIN. STUB DRAINS SHOULD BE A MINIMUM OF 300mm BELOW THE BOTTOM OF THE GRANULAR SUBBASE AND CONNECTED TO THE CATCHBASINS. THE DRAINS SHOULD CONSIST OF 150mm DIAMETER GLOTEXILE WRAPPED PERFORATED PIPE, SURROUNDED ON ALL SIDES BY AT LEAST 150mm OF 19mm CLEAR STONE.

CURB AND GUTTER, SUBDRAINS, AND SIDEWALK

- 1. CONCRETE BARRIER CURB AS PER OPSD 600.110 TO BE USED (FULL HEIGHT OR DEPRESSED CURB AS SPECIFIED ON GRADING PLANS).
2. SUBDRAINS TO BE CONSTRUCTED AS PER DETAIL OS-220 ON DT-2 DRAWING. SUBDRAINS TO BE LOCATED AT ALL ROAD CATCHBASINS.
3. SUBDRAINS TO BE 150mmØ PERFORATED DUAL WALL POLYETHYLENE PIPE WITH SMOOTH INNER SURFACE AND HAVE A MINIMUM STIFFNESS OF 320kPa.
4. SUBDRAINS TO BE ENCASED IN GRANULAR 'A' MATERIAL AS PER DETAIL OS-220 AND WRAPPED IN FILTER FABRIC.
5. SIDEWALKS AS PER OS-301, OS-303 AND OS-304.

CALCIUM CARBONATE RECOMMENDATIONS

- 1. THE USE OF THE FOLLOWING AGGREGATE MATERIALS SHOULD BE AVOIDED FOR ALL FILL PLACEMENT INCLUDING BENEATH ROADWAYS, DRIVEWAYS, FLOOR SLABS, FOOTINGS AND SURROUNDING FOOTING DRAINS: CRUSHED AND/OR RECYCLED CONCRETE; SLAG, OR SIMILAR STEEL MILL BY-PRODUCTS; GRANULAR FILL MATERIALS CONTAINING CRUSHED AND/OR RECYCLED CONCRETE AND SLAG OR SIMILAR STEEL MILL BY-PRODUCTS; LIME, LIME KILN DUST (LKD) OR CEMENT KILN DUST (CKD); FLY ASH AND FLY ASH PRODUCTS; AND GYPSUM BASED FILL MATERIALS.
2. USING NON-FILTER WRAPPED PERFORATED WEEPING TILE PIPING IN FINE GRAINED COHESIVE SOIL ENVIRONMENTS (I.E. CLAYEY SILT TILL SOILS OR SIMILAR SOILS). GOLDER ASSOCIATES ADVISES THAT CONSIDERATION OF LOCALIZED SOIL CONDITIONS BE TAKEN INTO ACCOUNT WITH THE DECISION TO USE FILTER WRAPPED OR NON-FILTER WRAPPED WEEPING TILE PIPING.

EROSION AND SILTATION CONTROL PLAN GENERAL NOTES

- 1. SILTATION CONTROL FENCE TO BE INSTALLED PRIOR TO CONSTRUCTION.
2. LOCATION OF SILT FENCES IS APPROXIMATE. EXACT LOCATION IS TO BE DETERMINED ON-SITE BY THE CONTRACTOR IN CONSULTATION WITH THE ENGINEER AND THE OWNER.
3. ALL CONSTRUCTION VEHICLES TO ENTER AND LEAVE THE SITE AT APPROVED LOCATION ONLY.
4. ALL CONSTRUCTION VEHICLES TO BE REFUELED AT DESIGNATED AREAS ONLY.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL SILTATION CONTROL DEVICES AND STRUCTURES IN GOOD WORKING CONDITIONS AT ALL TIMES. CONTRACTOR AND CONSULTANT SHALL INSPECT SUCH DEVICES ON A WEEKLY BASIS, BEFORE AND AFTER EACH SIGNIFICANT RAINFALL EVENT OR SNOW MELT. ALL IDENTIFIED REPAIRS SHALL BE RECTIFIED WITHIN 24 HOURS.
6. SEDIMENT TO BE REMOVED FROM SEDIMENT PONDS WHEN THE SEDIMENT ACCUMULATION ZONE IS FULL. THE REQUIRED STORAGE OF 125m3/ha SHALL BE MAINTAINED AT ALL TIMES.
7. LOT DRAINAGE SHALL BE DIRECTED TOWARDS TEMPORARY SEDIMENT PONDS OR AS INDICATED ON THE DRAWINGS.
8. SEDIMENT TO BE REMOVED FROM BEHIND SILT FENCES WHEN IT IS ONE THIRD TO HALF WAY UP THE FILTER CLOTH.
9. IF UNDERGROUND SERVICES AND CONSTRUCTION OF ROADWAYS DOES NOT PROCEED FOLLOWING ROUGH GRADING, THE AREA SHOULD BE STABILIZED WITH HYDROSEED WITHIN 30 DAYS AND LEFT IN

- AN UNDISTURBED CONDITION.
10. TEMPORARY CATCHBASIN SILTATION CONTROL DEVICES SHALL BE INSTALLED IN ALL CATCHBASINS AS PER "TEMPORARY SILTATION CONTROL DEVICE (CATCHBASINS)" DETAIL.
11. ALL TEMPORARY SEDIMENT PONDS ARE TO BE CONSTRUCTED AT THE BEGINNING OF THE EARTHWORKS PROGRAM AND REMAIN IN PLACE UNTIL DIRECTED BY THE CONSULTANT.
12. RUNOFF CONTAINED IN TEMPORARY SEDIMENT PONDS IS TO BE PUMPED TO A SAFE OUTLET PRIOR TO STORM SEWER CONSTRUCTION. (REFER TO NOTE 3 IN CONSTRUCTION PROGRAM).
13. EXISTING VEGETATION SHALL NOT BE IMPACTED BY THE INSTALLATION OF EROSION/SEDIMENTATION CONTROL DEVICES.
14. AREAS TO BE HYDROSEEDED ARE TO BE DONE SO WITHIN 30 DAYS OF THE COMPLETION OF EARTHWORKS.
15. TEMPORARY STORM SEWER HALF BULKHEADS TO BE INSTALLED AT LOCATIONS SHOWN ON ER DRAWING. BULKHEADS TO BE INSPECTED ON A WEEKLY BASIS BEFORE AND AFTER EACH SIGNIFICANT RAINFALL EVENT OR SNOWFALL. ALL IDENTIFIED REPAIRS SHALL BE RECTIFIED WITHIN 24 HRS. SEDIMENT TO BE REMOVED FROM UPSTREAM SIDE OF BULKHEADS WHEN DEPTH OF SEDIMENT REACHES 75% OF BULKHEAD HEIGHT.

DECOMMISSION OF TEMPORARY SEDIMENT PONDS

- 1. SEDIMENT PONDS TO BE DECOMMISSIONED WHEN AUTHORIZED BY CONTRACT ADMINISTRATOR AND CITY OF OSHAWA.
2. WHEN DIRECTED BY THE CONSULTANT, DRAIN THE SEDIMENT PONDS BY PUMPING TO A "WETLANDS" FILTER BAG OR EQUAL.
3. REMOVE THE TEMPORARY HICKENBOTTOM DRAINS, RIP RAP, FILTER FABRIC AND ANY CLEAR STONE AT THE BOTTOM OF THE TEMPORARY SEDIMENT POND AND DISPOSE OFF SITE.
4. EXCAVATE AND REMOVE ALL DEPOSITED MATERIAL AT THE BOTTOM OF THE PERMANENT STORMWATER MANAGEMENT POND . ALL EXCAVATED MATERIAL IS TO BE DEPOSITED OFF SITE.
5. EXCAVATE AND REMOVE ALL MATERIAL 0.75 METRES (MIN) BELOW BOTTOM OF ANY TEMPORARY SEDIMENT POND LOCATED ON A BUILDING LOT OR MORE AS DIRECTED BY THE GEOTECHNICAL CONSULTANT. ALL EXCAVATED MATERIAL IS TO BE DISPOSED OFF SITE OR AS DIRECTED BY THE CONSULTANT.
6. ONCE THE TEMPORARY SEDIMENT POND HAS BEEN REMOVED THE EXISTING POND AREA IS TO BE ENGINEERED FILLED TO PRE-GRADE LEVEL. ALL FILLING IS TO BE COMPACTED TO 98% STANDARD PROCTOR DENSITY (OR TO A COMPACTION THAT IS APPROVED BY THE GEOTECHNICAL CONSULTANT).

CONSTRUCTION PROGRAM:

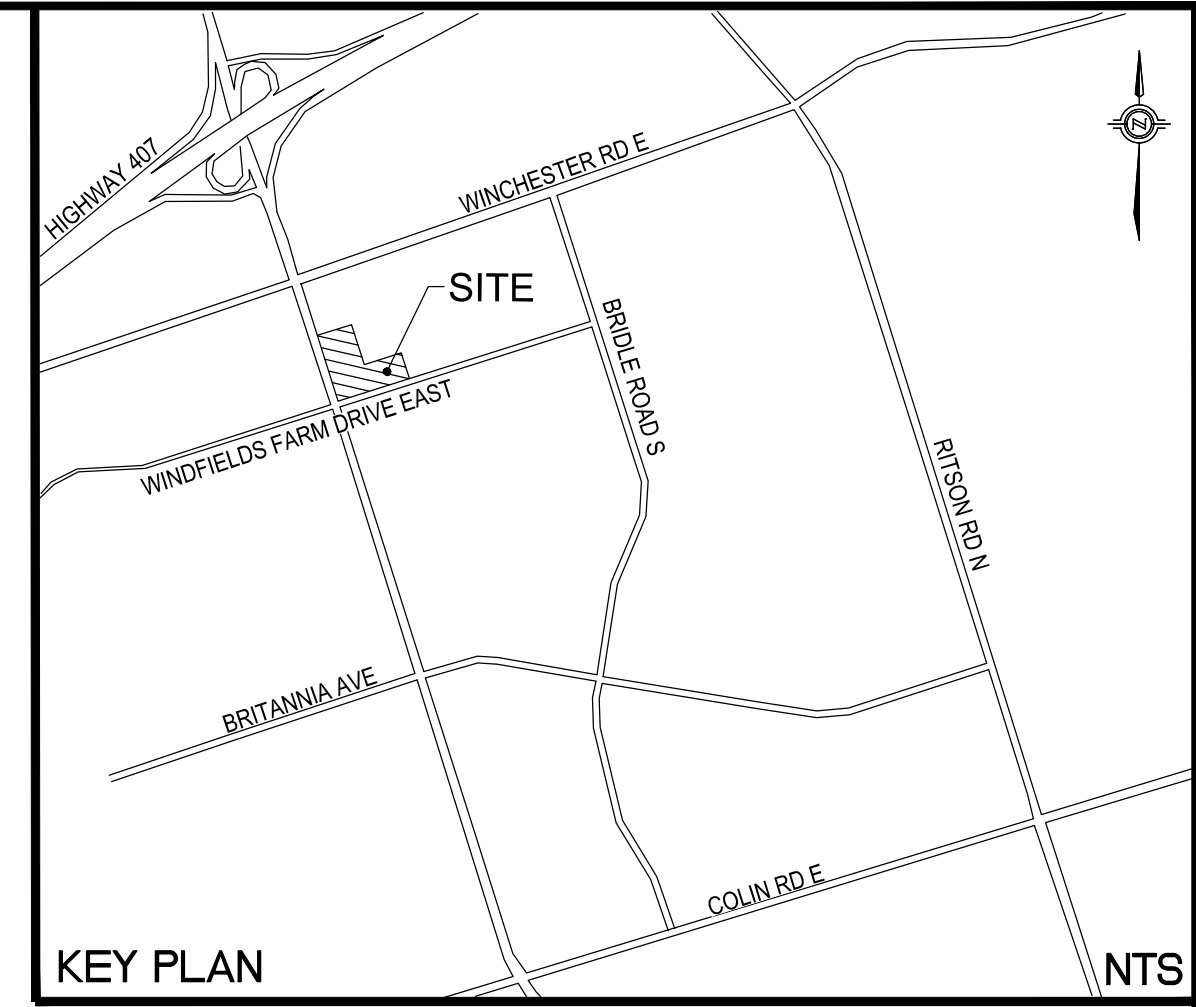
- 1. INSTALL MUD-MAT AT LOCATION SHOWN ON DWG. ER-1. MUD-MAT TO BE MAINTAINED IN GOOD WORKING CONDITION DURING CONSTRUCTION. INSTALL SEDIMENT CONTROL FENCE PER DETAIL ON DRAWING DT2 AT LOCATIONS SHOWN ON ER DRAWINGS.
2. SEDIMENT CONTROL FENCE TO BE MAINTAINED IN GOOD WORKING CONDITION DURING CONSTRUCTION.
3. EXCAVATION OF TEMPORARY PONDS AS SHOWN ON ER DRAWINGS (PONDS TO BE REGULARLY MONITORED AND IF REQUIRED ARE TO BE PUMPED UNTIL THE MINOR SYSTEM IS IN PLACE. THE CITY ENGINEER IS TO BE CONTACTED PRIOR TO CLEANING OR PUMPING POND). THE TEMPORARY SEDIMENT CONTROL PONDS AND SWALES ARE TO BE KEPT IN OPERATION UNTIL FINE GRADING AND SODDING OF DISTURBED AREAS IS COMPLETED. AS THE DEVELOPMENT NEARS COMPLETION WITH SURFACE STABILIZATION CONSISTING OF PAVEMENT, DWELLING UNITS AND SODDED AREA, THE TEMPORARY TRAPS CAN BE REDUCED PROPORTIONALLY.
4. CONSTRUCT TEMPORARY SWALES PER "TYPICAL DRAINAGE DITCH SECTION" ON THE DETAILS PLAN, AT LOCATIONS EROSION AND SEDIMENT CONTROL DRAWING(S).
5. PERFORM ROUGH GRADING IN AREAS SHOWN, TO THE PREGRADE VALUES SET OUT IN THE EARTHWORKS CONTRACT, INCLUDING ENGINEERED FILL.
6. ONCE SEWERS HAVE BEEN INSTALLED, REMOVE TEMPORARY PONDS AND INSTALL TEMPORARY LOT DRAINS CONNECTED TO THE STORM SEWER SYSTEM.
7. WHEN CATCHBASINS HAVE BEEN INSTALLED, THE TEMPORARY SILTATION CONTROL DEVICES ARE TO BE PUT IN PLACE AS SHOWN ON THE DETAILS PLAN. THE CATCHBASIN SILTATION CONTROL DEVICES ARE TO REMAIN UNTIL FINE GRADING AND SODDING IS COMPLETED ON THE ABUTTING LOTS.
8. ONCE ROADS HAVE BEEN PAVED, REMOVE MUD-MAT AND DISPOSE OFFSITE.
9. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED AND SHALL BE DETERMINED BY THE ENGINEERING CONSULTANT AND/OR THE CITY OF OSHAWA.
10. DURING CONSTRUCTION, MUD TRACKING CONTROL (CONSISTING OF FLUSHING AND SWEEPING ROADS) IS TO BE PROVIDED FOR ALL ROADS, AS WARRANTED, IN ACCORDANCE WITH CITY OF OSHAWA MUD TRACKING AND DUST CONTROL POLICIES.

SPILL RESPONSE NOTES

- 1. CONTRACTOR MUST HAVE SPILL KITS AVAILABLE ON-SITE AT ALL TIMES THROUGH THE COURSE OF CONSTRUCTION.
2. CONTRACTOR TO NOTIFY THE CONSULTANT IMMEDIATELY WHEN A SPILL OCCURS TO ENSURE APPROPRIATE RESPONSE MEASURES ARE TAKEN.

PROPOSED DUST CONTROL MEASURES AND RESPONSE PLAN

- DUST CONTROL WILL BE SUPPLIED BY THE GENERAL CONTRACTOR BY WAY OF THE FOLLOWING:
1. PRE-GRADING PLANING
a. TOPSOIL STRIPPING AND EARTHWORKS WILL COMMENCE UPON RECEIPT OF THE SITE ALTERATION BY-LAW PERMIT FROM THE CITY OF OSHAWA. THE SERVICING WILL COMMENCE AS SOON AS POSSIBLE AND BE CARRIED OUT IN CONJUNCTION WITH THE EARTHWORKS. THIS WILL REDUCE THE OVERALL AMOUNT OF TIME THAT AREAS ARE LEFT SUSCEPTIBLE TO WIND THAT CREATES BLOWING DUST. THE CONTRACTOR SHALL APPLY WATER TO HAUL ROADS AND STOCKPILE(S) BY WAY OF WATER TRUCK.
2. WATERING (POST-GRADING)
a. WITHIN AREAS WHERE EARTHWORKS AND OR UNDERGROUND MUNICIPAL SERVICING IS ON-GOING, WATER IS TO BE UTILIZED AT SUFFICIENT QUANTITY TO PREVENT VISIBLE EMISSIONS FROM EXTENDING MORE THAN 30M FROM THE POINT OF ORIGIN.
3. REDUCE VEHICLE SPEED
a. THE ON-SITE SPEED LIMIT FOR CONSTRUCTION VEHICLES WILL BE 25km/h MAXIMUM. THIS MAY NEED TO BE USED IN CONJUNCTION WITH WATERING TO PREVENT VISIBLE DUST EMISSIONS.
4. RESTRICT ACTIVITIES DURING HIGH WIND PERIODS
a. THE HIGH VISIBILITY OF CERTAIN WORKS AND THE CLOSE PROXIMITY AND POPULATION IMPACT SHOULD BE TAKEN INTO CONSIDERATION WHEN SCHEDULING DUST-PRODUCING WORK.
5. ROAD CLEANING
a. SPILLAGE, EROSION OR MATERIALS "TRACKED OUT" ON A ROAD TO BE CLEANED USING MECHANICAL STREET SWEEPERS OR FLUSHER TRUCK AT LEAST BY THE END OF THE WORK DAY. HOWEVER, IF THE SPILLAGE EXTENDS MORE THAN 15M ALONG A PAVED PUBLIC ROADWAY IT MUST BE CLEANED UP IMMEDIATELY.
b. IMPORTING AND EXPORTING OF MATERIALS ON AND OFF-SITE WILL BE SHUT DOWN DURING AND FOLLOWING INCLEMENT WEATHER UNTIL THE ROAD SURFACES HAVE BEEN CLEANED. MONITORING AND RECORDING OF THE SITE CONDITIONS WILL BE UNDERTAKEN BY FIELD STAFF AND THE CONTRACTOR'S SITE SUPERINTENDENT.



LIST OF DRAWINGS table with columns for drawing name and sheet number. Includes: NOTES (NT1 (PH2)), SITE GRADING PLAN (GR1 (PH2)), SITE SERVICING PLAN (SS1 (PH2)), EROSION CONTROL PLAN (ER1 (PH2)), STORM DRAINAGE PLAN (STM1 (PH2)), SANITARY DRAINAGE PLAN (SAN1 (PH2)), DETAILS (DT1 (PH2), DT2 (PH2)), CROSS SECTIONS (CS1 (PH2)).

PAVEMENT STRUCTURE DETAILS:

LIGHT DUTY ASPHALT (PARKING LOT)
40mm COMPACTED DEPTH OF HL-3 (SURFACE)
50mm COMPACTED DEPTH OF HL-8 BINDER (BASE)
150mm COMPACTED DEPTH OF GRANULAR A
300mm COMPACTED DEPTH OF GRANULAR B
540mm TOTAL COMPACTED DEPTH

HEAVY DUTY ASPHALT (FIRE ROUTE)
40mm COMPACTED DEPTH OF HL-3 (SURFACE)
75mm COMPACTED DEPTH OF HL-8 BINDER (BASE)
150mm COMPACTED DEPTH OF GRANULAR A
450mm COMPACTED DEPTH OF GRANULAR B
715mm TOTAL COMPACTED DEPTH



BENCH MARK: CITY OF OSHAWA BENCHMARK No. 214 HAVING AN ELEVATION OF 182.701 METRES (GEODETIC). LOCATED ON THE SOUTHWEST CORNER OF SIMCOE STREET NORTH AND SIXTH CON. CUT CROSS AND PAINT ON NORTHERLY BOLT IN NORTHEAST SECTION OF LEG ON NORTHEAST CORNER CONCRETE BASE FOR HYDRO TOWER.

NOTES: LOCATION OF BURIED UTILITIES ARE BASED UPON MARKINGS FOUND ON-SITE. ORIGIN AND AGE OF MARKINGS ARE UNKNOWN. CONTRACTOR TO VERIFY LOCATION OF ACTUAL UTILITIES PRIOR TO CONSTRUCTION.

REFERENCES table with columns for No., DATE, REVISION, and BY. Includes WSP logo and contact info: 100 Scotia Court, Whitby, ON L1N 8Y6, www.wsp.com. Project title: RIOCAN COMMERCIAL SITE B2 PART OF LOT 12, CONCESSION 5 CITY OF OSHAWA, ON. Notes Plan (Phase 2). Scale: N.T.S. Drawing No.: 211-01713-00 DWG. No.: NT1 (PH2).

Jun 19, 2024 - 2:26pm M:\cadd_dwg\2020\20M-00820-NT1.dwg -tab:NT1 (PH2) RicCon Site B13-Production Drawings\20M-00820-NT1.dwg

Jun 19, 2024 - 2:24pm
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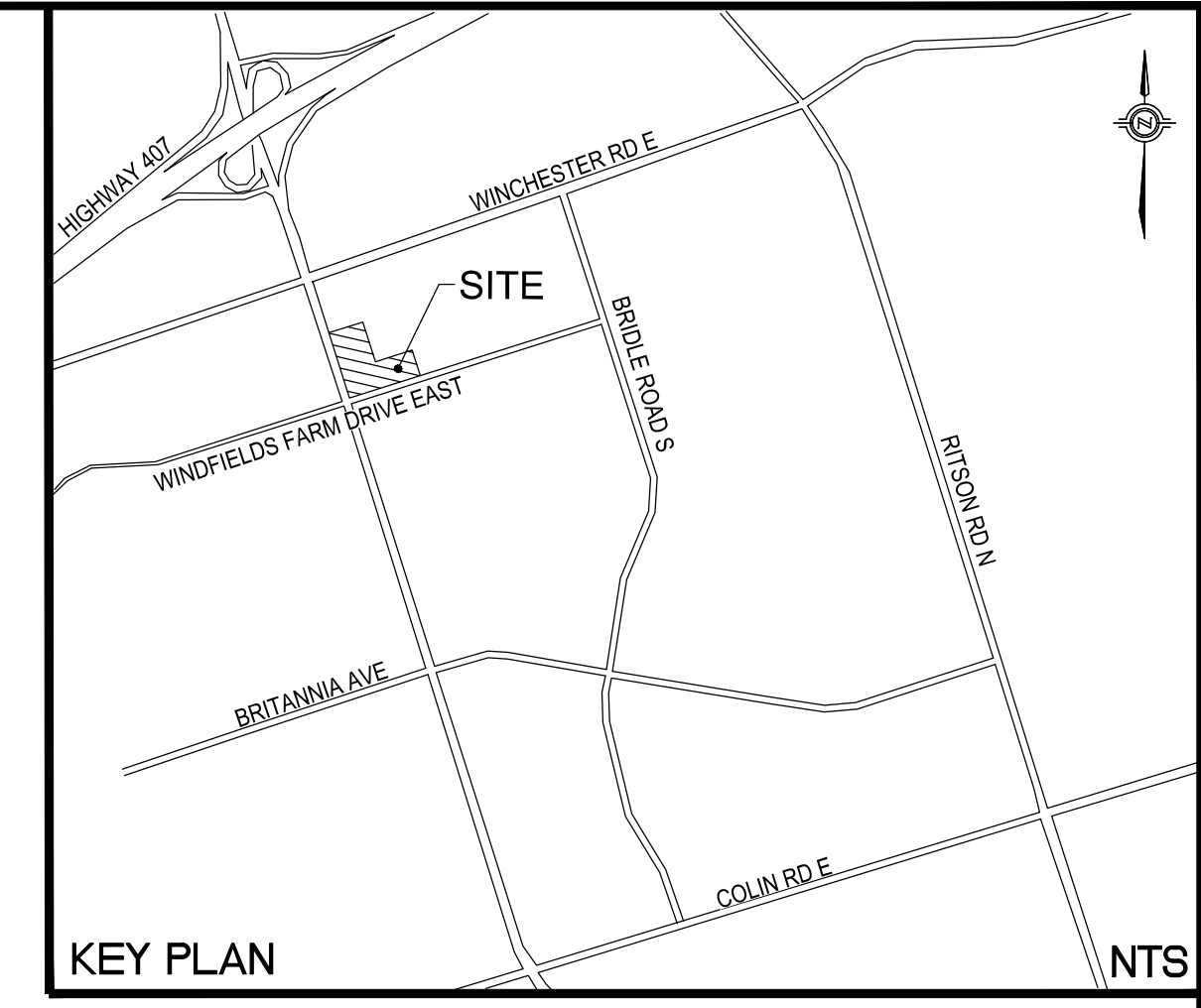
SIMCOE STREET NORTH

EROSION AND SILTATION CONTROL PLAN GENERAL NOTES

1. SILTATION CONTROL FENCE TO BE INSTALLED PRIOR TO CONSTRUCTION.
2. LOCATION OF SILT FENCES IS APPROXIMATE. EXACT LOCATION IS TO BE DETERMINED ON-SITE BY THE CONTRACTOR IN CONSULTATION WITH THE ENGINEER AND THE OWNER.
3. ALL CONSTRUCTION VEHICLES TO ENTER AND LEAVE THE SITE AT APPROVED LOCATION ONLY.
4. ALL CONSTRUCTION VEHICLES TO BE REFUELED AT DESIGNATED AREAS ONLY.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL SILTATION CONTROL DEVICES AND STRUCTURES IN GOOD WORKING CONDITIONS AT ALL TIMES. CONTRACTOR AND CONSULTANT SHALL INSPECT SUCH DEVICES ON A WEEKLY BASIS BEFORE AND AFTER EACH SIGNIFICANT RAINFALL EVENT OR SNOW MELT. ALL IDENTIFIED REPAIRS SHALL BE RECTIFIED WITHIN 24 HOURS.
6. SEDIMENT TO BE REMOVED FROM SEDIMENT PONDS WHEN THE SEDIMENT ACCUMULATION ZONE IS FULL. THE REQUIRED STORAGE OF 125m³/ha SHALL BE MAINTAINED AT ALL TIMES.
7. LOT DRAINAGE SHALL BE DIRECTED TOWARDS TEMPORARY SEDIMENT PONDS OR AS INDICATED ON THE DRAWINGS.
8. SEDIMENT TO BE REMOVED FROM BEHIND SILT FENCES WHEN IT IS ONE THIRD TO HALF WAY UP THE FILTER CLOTH.
9. IF UNDERGROUND SERVICES AND CONSTRUCTION OF ROADWAYS DOES NOT PROCEED FOLLOWING ROUGH GRADING, THE AREA SHOULD BE STABILIZED WITH HYDROSEED WITHIN 30 DAYS AND LEFT IN AN UNDISTURBED CONDITION.
10. TEMPORARY CATCHBASIN SILTATION CONTROL DEVICES SHALL BE INSTALLED IN ALL CATCHBASINS AS PER "TEMPORARY SILTATION CONTROL DEVICE (CATCHBASINS)" DETAIL.
11. ALL TEMPORARY SEDIMENT PONDS ARE TO BE CONSTRUCTED AT THE BEGINNING OF THE EARTHWORKS PROGRAM AND REMAIN IN PLACE UNTIL DIRECTED BY THE CONSULTANT.
12. RUNOFF CONTAINED IN TEMPORARY SEDIMENT PONDS IS TO BE PUMPED TO A SAFE OUTLET PRIOR TO STORM SEWER CONSTRUCTION. (REFER TO NOTE 3 IN CONSTRUCTION PROGRAM).
13. EXISTING VEGETATION SHALL NOT BE IMPACTED BY THE INSTALLATION OF EROSION/SEDIMENTATION CONTROL DEVICES.
14. AREAS TO BE HYDROSEED ARE TO BE DONE SO WITHIN 30 DAYS OF THE COMPLETION OF EARTHWORKS.
15. TEMPORARY STORM SEWER HALF BULKHEADS TO BE INSTALLED AT LOCATIONS SHOWN ON ER DRAWING. BULKHEADS TO BE INSPECTED ON A WEEKLY BASIS BEFORE AND AFTER EACH SIGNIFICANT RAINFALL EVENT OR SNOWFALL. ALL IDENTIFIED REPAIRS SHALL BE RECTIFIED WITHIN 24 HRS. SEDIMENT TO BE REMOVED FROM UPSTREAM SIDE OF BULKHEADS WHEN DEPTH OF SEDIMENT REACHES 75% OF BULKHEAD HEIGHT.

PROPOSED DUST CONTROL MEASURES AND RESPONSE PLAN

- DUST CONTROL WILL BE SUPPLIED BY THE GENERAL CONTRACTOR BY WAY OF THE FOLLOWING:
1. PRE-GRADING PLANNING
 - a. TOPSOIL STRIPPING AND EARTHWORKS WILL COMMENCE UPON RECEIPT OF THE SITE ALTERATION BY-LAW PERMIT FROM THE CITY OF OSHAWA. THE SERVICING WILL COMMENCE AS SOON AS POSSIBLE AND BE CARRIED OUT IN CONJUNCTION WITH THE EARTHWORKS. THIS WILL REDUCE THE OVERALL AMOUNT OF TIME THAT AREAS ARE LEFT SUSCEPTIBLE TO WIND THAT CREATES BLOWING DUST. THE CONTRACTOR SHALL APPLY WATER TO HAUL ROADS AND STOCKPILE(S) BY WAY OF WATER TRUCK.
 2. WATERING (POST-GRADING)
 - a. WITHIN AREAS WHERE EARTHWORKS AND OR UNDERGROUND MUNICIPAL SERVICING IS ON-GOING, WATER IS TO BE UTILIZED AT SUFFICIENT QUANTITY TO PREVENT VISIBLE EMISSIONS FROM EXTENDING MORE THAN 30M FROM THE POINT OF ORIGIN.
 3. REDUCE VEHICLE SPEED
 - a. THE ON-SITE SPEED LIMIT FOR CONSTRUCTION VEHICLES WILL BE 25km/h MAXIMUM. THIS MAY NEED TO BE USED IN CONJUNCTION WITH WATERING TO PREVENT VISIBLE DUST EMISSIONS.
 4. RESTRICT ACTIVITIES DURING HIGH WIND PERIODS
 - a. THE HIGH VISIBILITY OF CERTAIN WORKS AND THE CLOSE PROXIMITY AND POPULATION IMPACT SHOULD BE TAKEN INTO CONSIDERATION WHEN SCHEDULING DUST-PRODUCING WORK.
 5. ROAD CLEANING
 - a. SPILLAGE, EROSION OR MATERIALS "TRACKED OUT" ON A ROAD TO BE CLEANED USING MECHANICAL STREET SWEEPERS OR FLUSHER TRUCK AT LEAST BY THE END OF THE WORK DAY. HOWEVER, IF THE SPILLAGE EXTENDS MORE THAN 15M ALONG A PAVED PUBLIC ROADWAY IT MUST BE CLEANED UP IMMEDIATELY.
 - b. IMPORTING AND EXPORTING OF MATERIALS ON AND OFF-SITE WILL BE SHUT DOWN DURING AND FOLLOWING INCLEMENT WEATHER UNTIL THE ROAD SURFACES HAVE BEEN CLEANED. MONITORING AND RECORDING OF THE SITE CONDITIONS WILL BE UNDERTAKEN BY FIELD STAFF AND THE CONTRACTOR'S SITE SUPERINTENDENT.



LEGEND:

- EXISTING TEMPORARY SWALE AND INVERT ELEVATION DURING CONSTRUCTION
- PROPOSED SEDIMENT CONTROL (AND VEGETATION PRESERVATION) FENCE
- OVERLAND FLOW DIRECTION (PRE SITE IMPROVEMENTS)
- PROPOSED ROCK CHECK DAM
- EXISTING FILTERTEX CHECK DAM
- TEMPORARY CATCHBASIN SILTATION CONTROL DEVICE
- SWALE ALONG SLOPE
- PROPERTY LINE



ALL FILL MATERIAL IS TO BE REMOVED AND TRANSPORTED TO THE SITE FROM SITE C1 LOCATED AT THE NORTHWEST CORNER OF WINDFIELDS FARM DRIVE WEST AND THOROUGHCRED STREET.

BENCH MARK:
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100 Scotia Court
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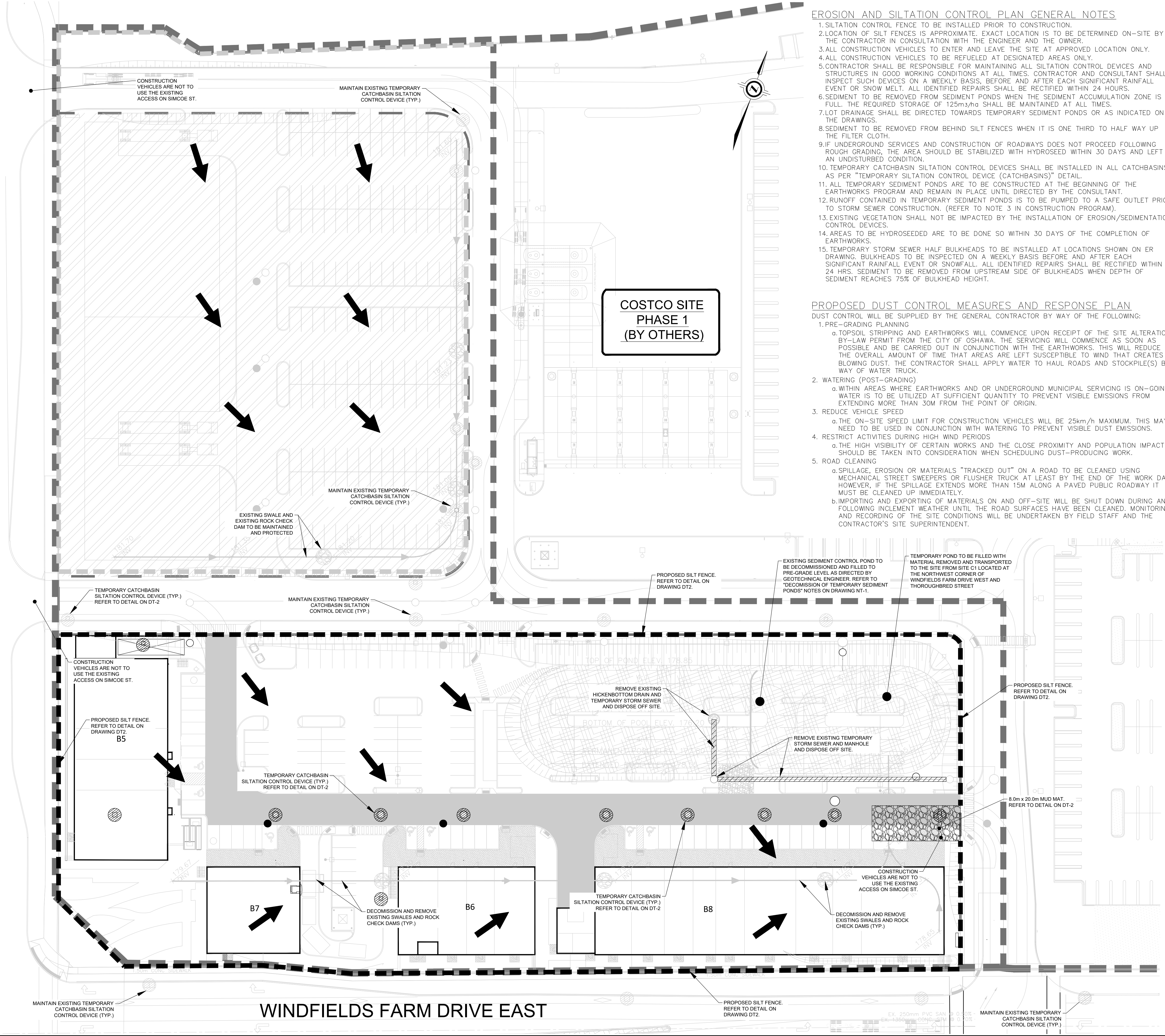
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RIOCAN COMMERCIAL SITE B2
 PART OF LOT 12, CONCESSION 5
 CITY OF OSHAWA, ON
 EROSION AND SEDIMENT
 CONTROL PLAN (PHASE 2)

DRAWN BY	LOC.	CONST.	CITY	DESIGN BY	C.S.	CHKD. BY	K.K.	APPD. BY
DATE			REGION	BY	C.S.	BY	K.K.	BY

SCALE: 1:400

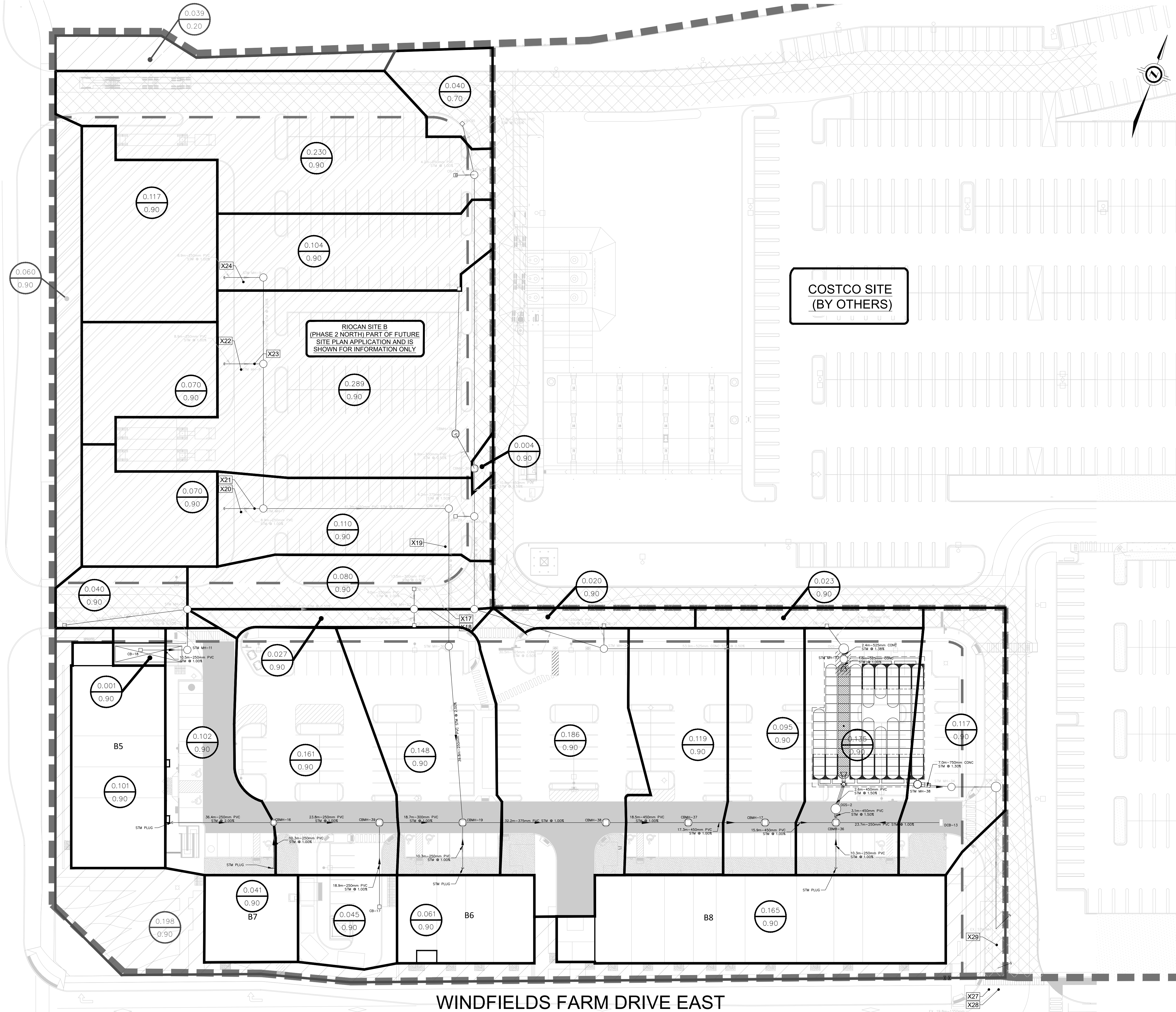
211-01713-00 DWG. No. ER1 (PH2)



**COSTCO SITE
 PHASE 1
 (BY OTHERS)**

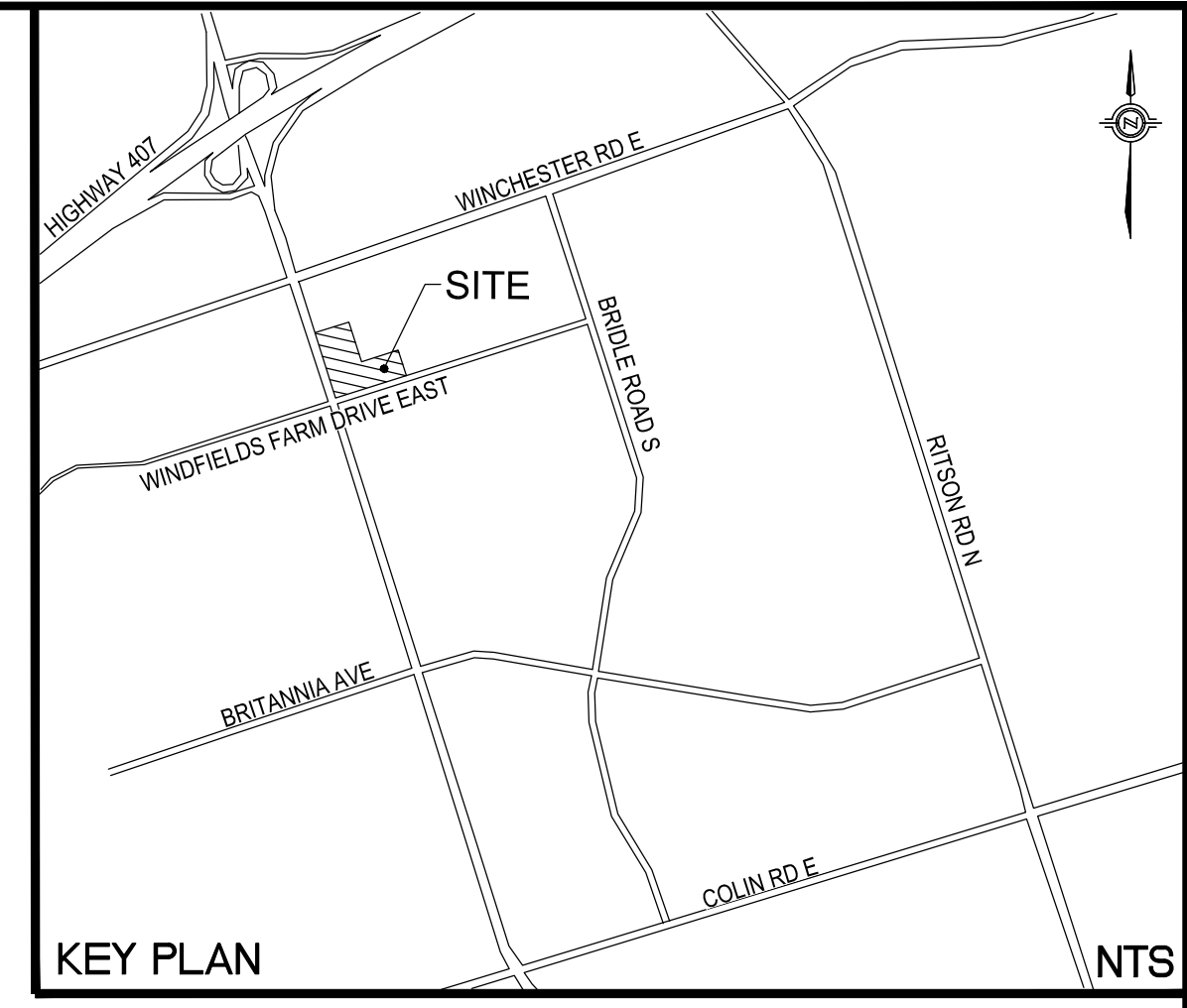
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SIMCOE STREET NORTH



**COSTCO SITE
(BY OTHERS)**

**RIOCAN SITE B
(PHASE 2 NORTH) PART OF FUTURE
SITE PLAN APPLICATION AND IS
SHOWN FOR INFORMATION ONLY**



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1	2022-05-20	ISSUED FOR SPA

ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED

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**RIOCAN COMMERCIAL SITE B2
 PART OF LOT 12, CONCESSION 5
 CITY OF OSHAWA, ON
 STORM DRAINAGE PLAN
 (PHASE 2)**

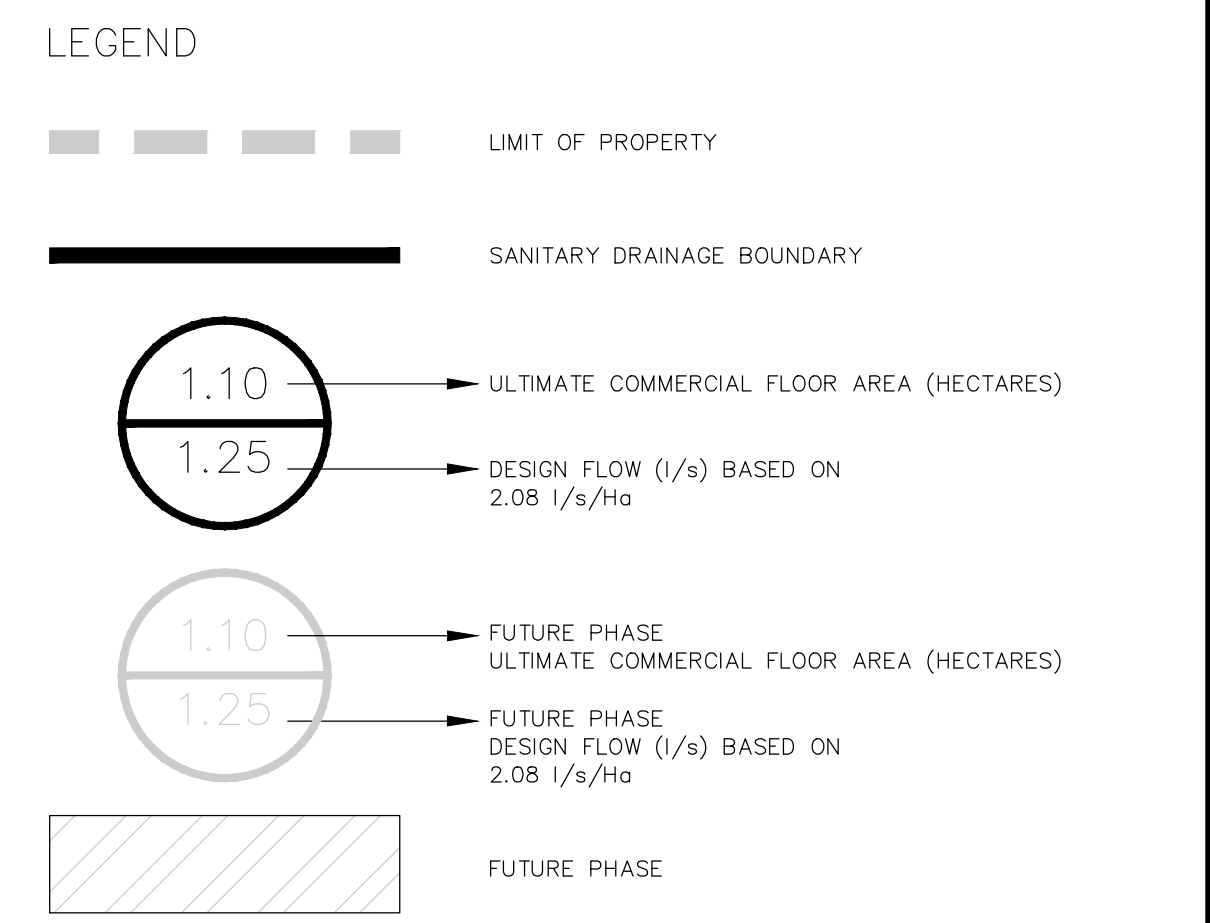
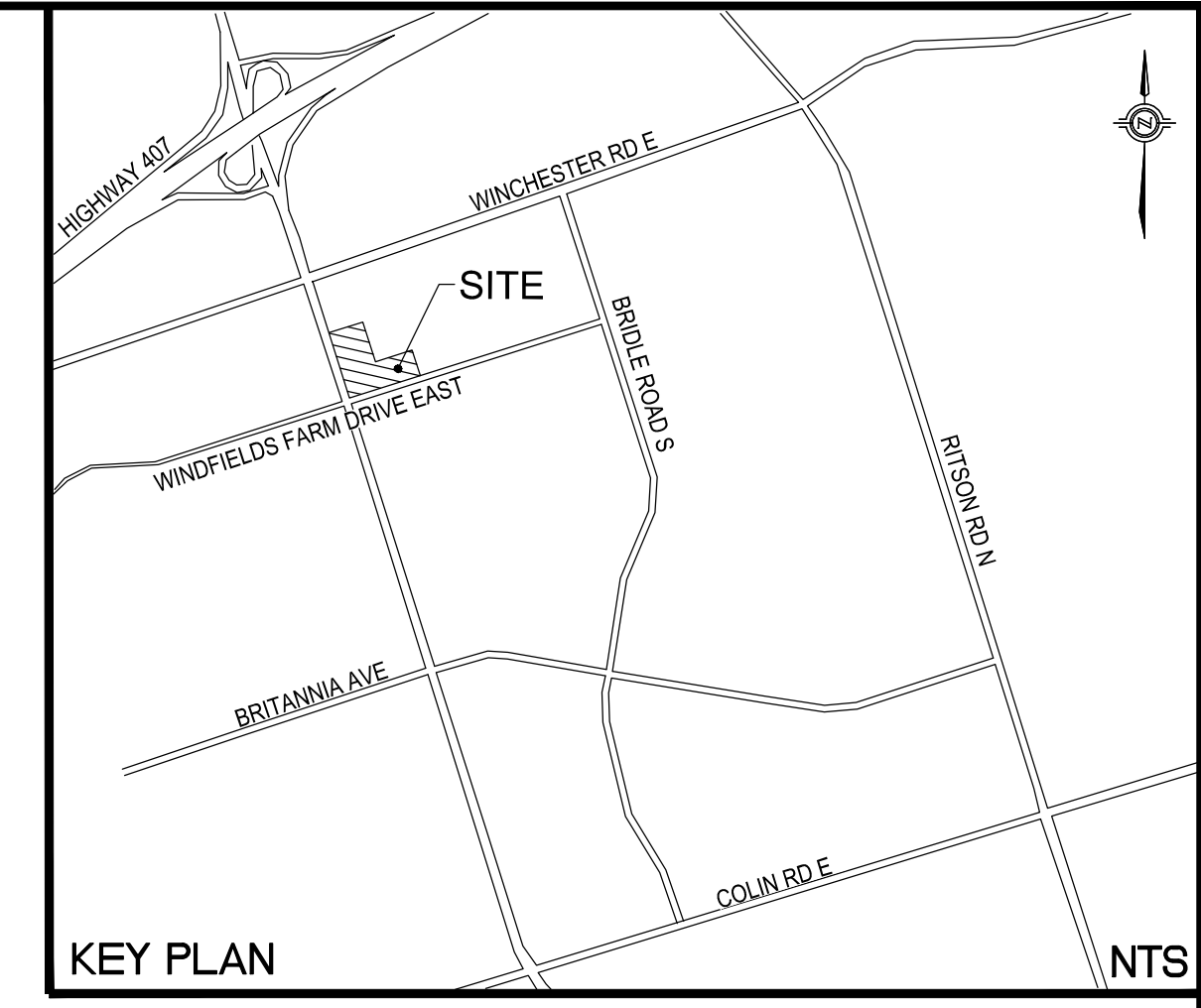
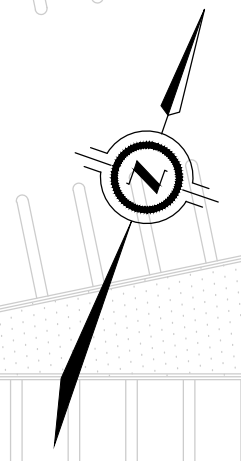
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211-01713-00 DWG. No. STM1 (PH2)

Jun 19, 2024 - 2:28pm
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SIMCOE STREET



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RIOCAN COMMERCIAL SITE B2
 PART OF LOT 12, CONCESSION 5
 CITY OF OSHAWA, ON
 SANITARY DRAINAGE PLAN
 (PHASE 2)

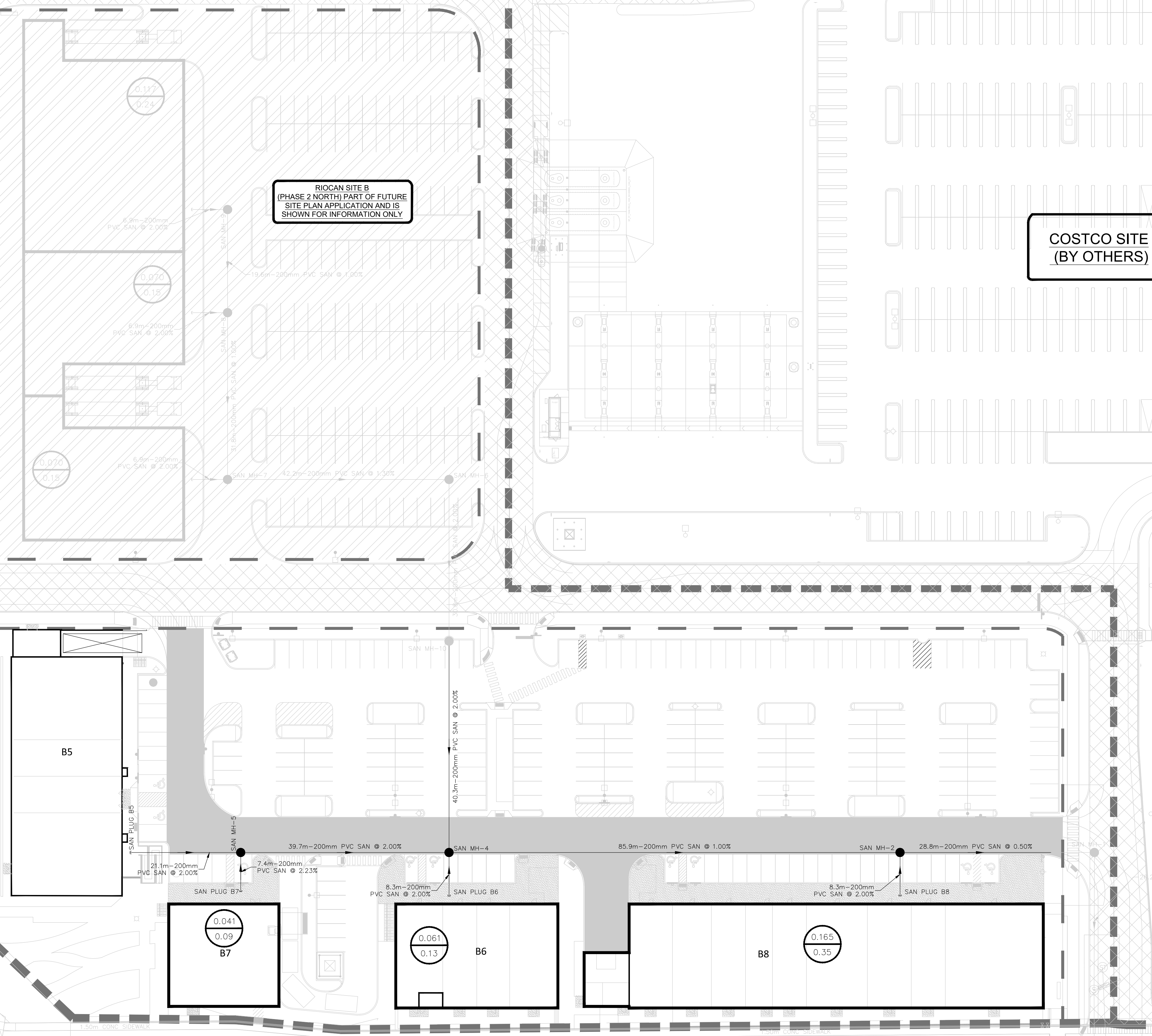
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SCALE: 1:400

211-01713-00 DWG. No. SAN1 (PH2)

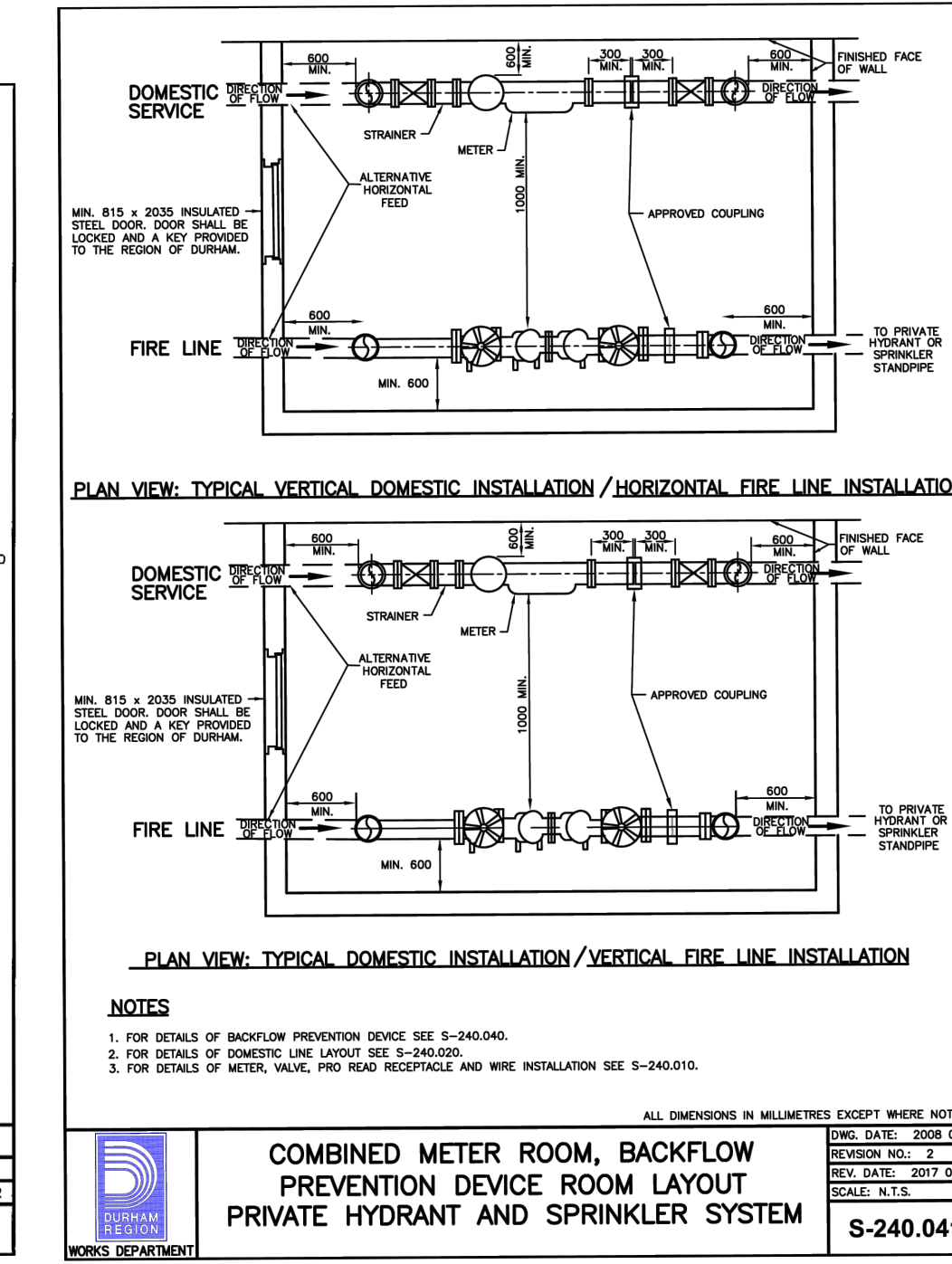
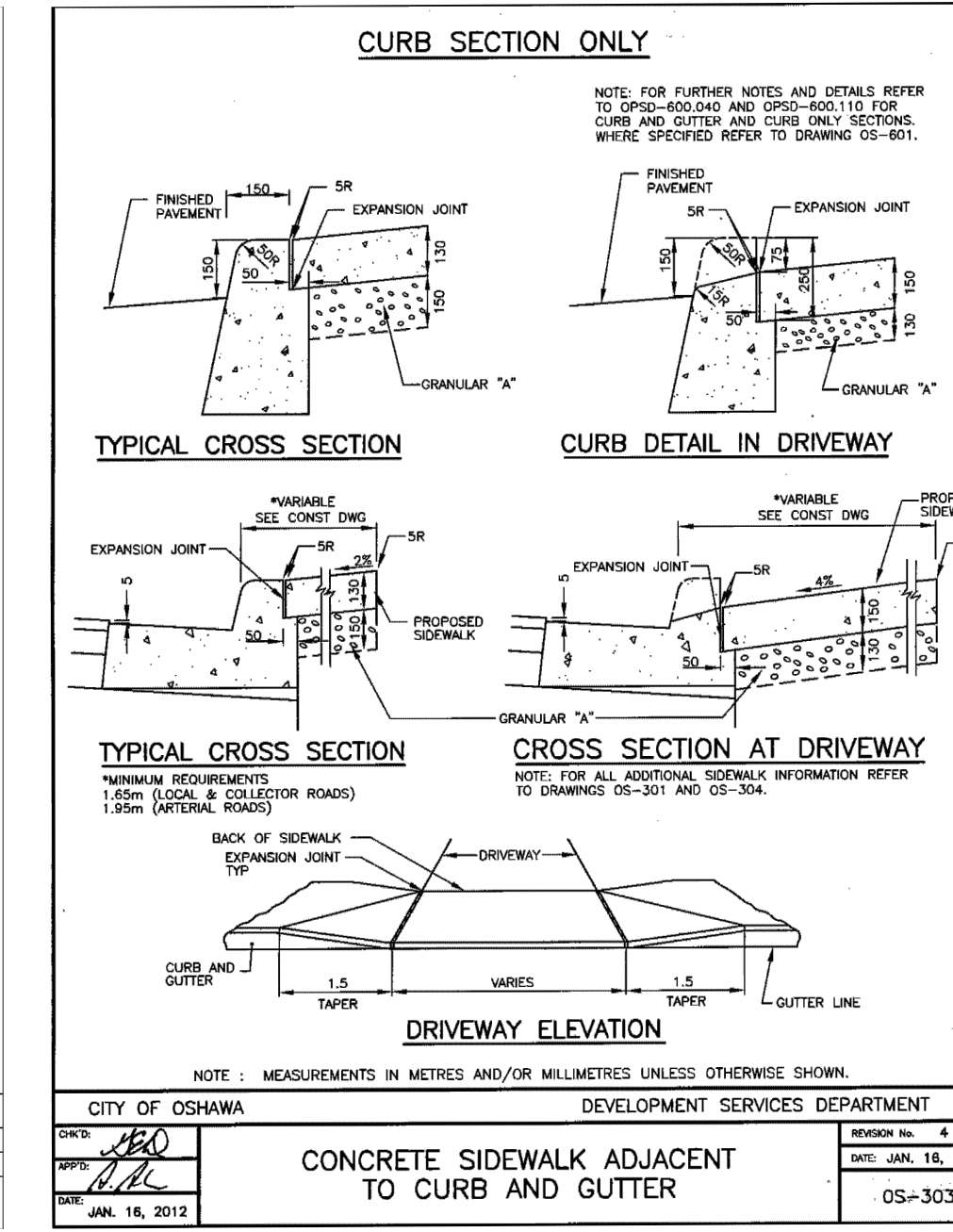
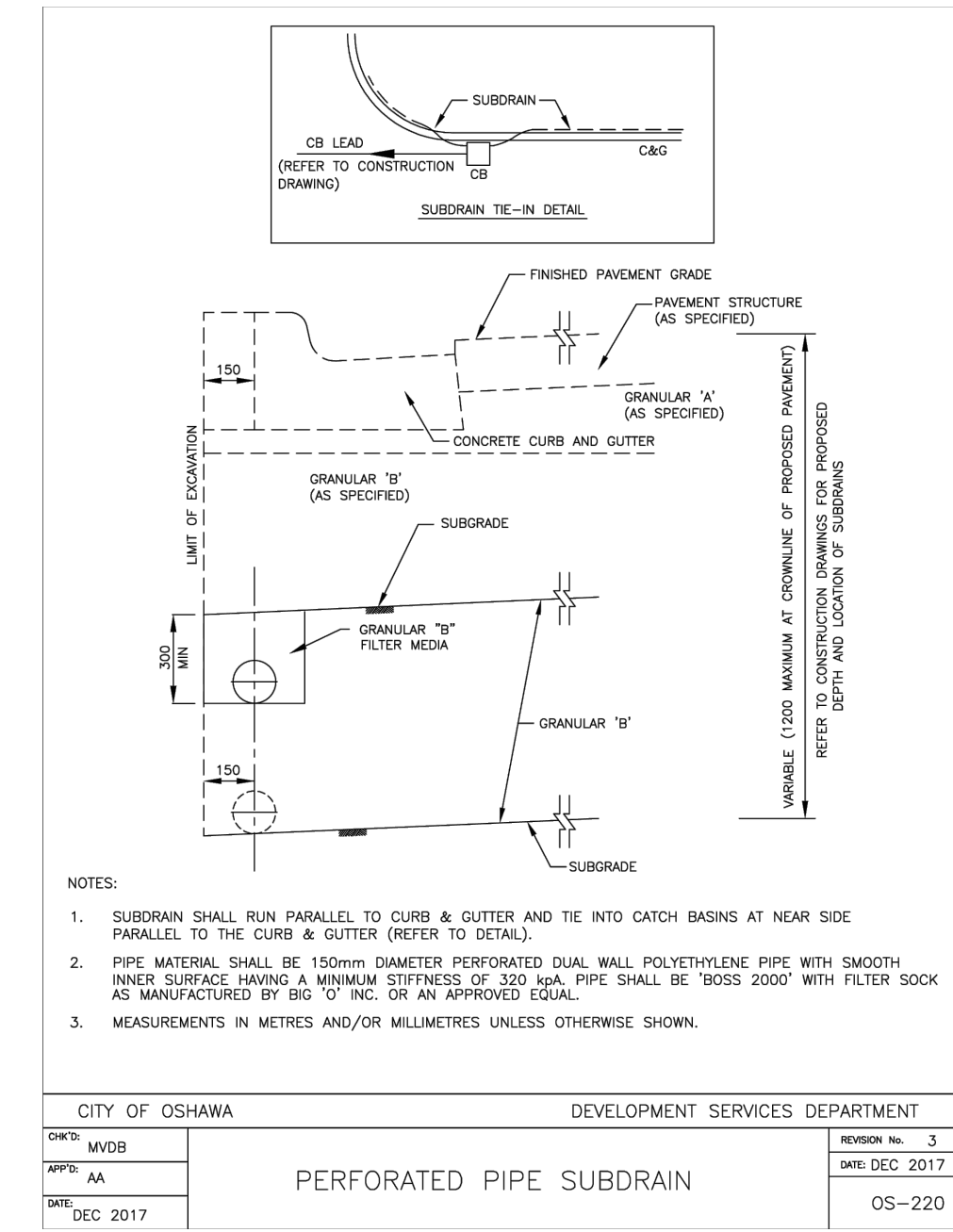
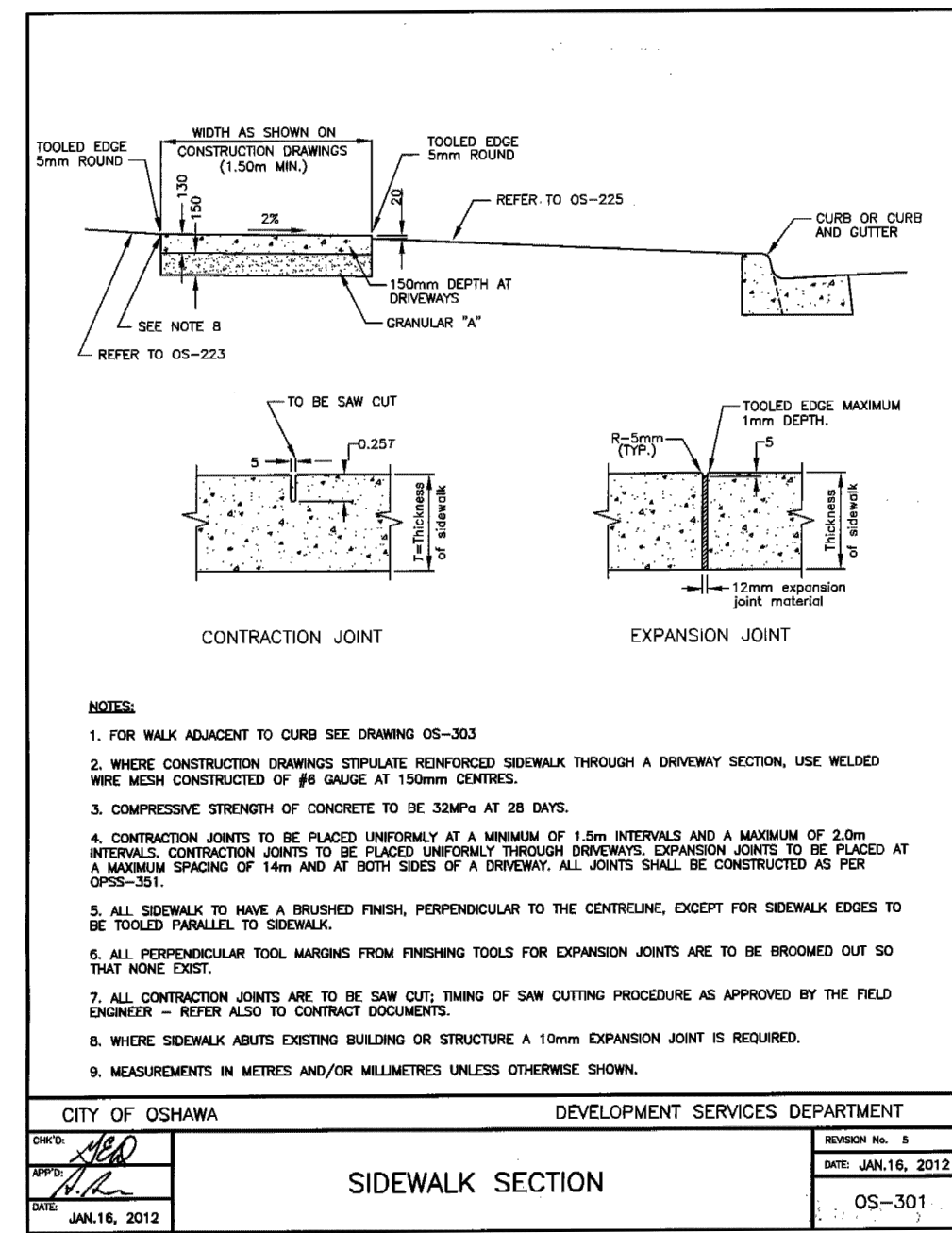
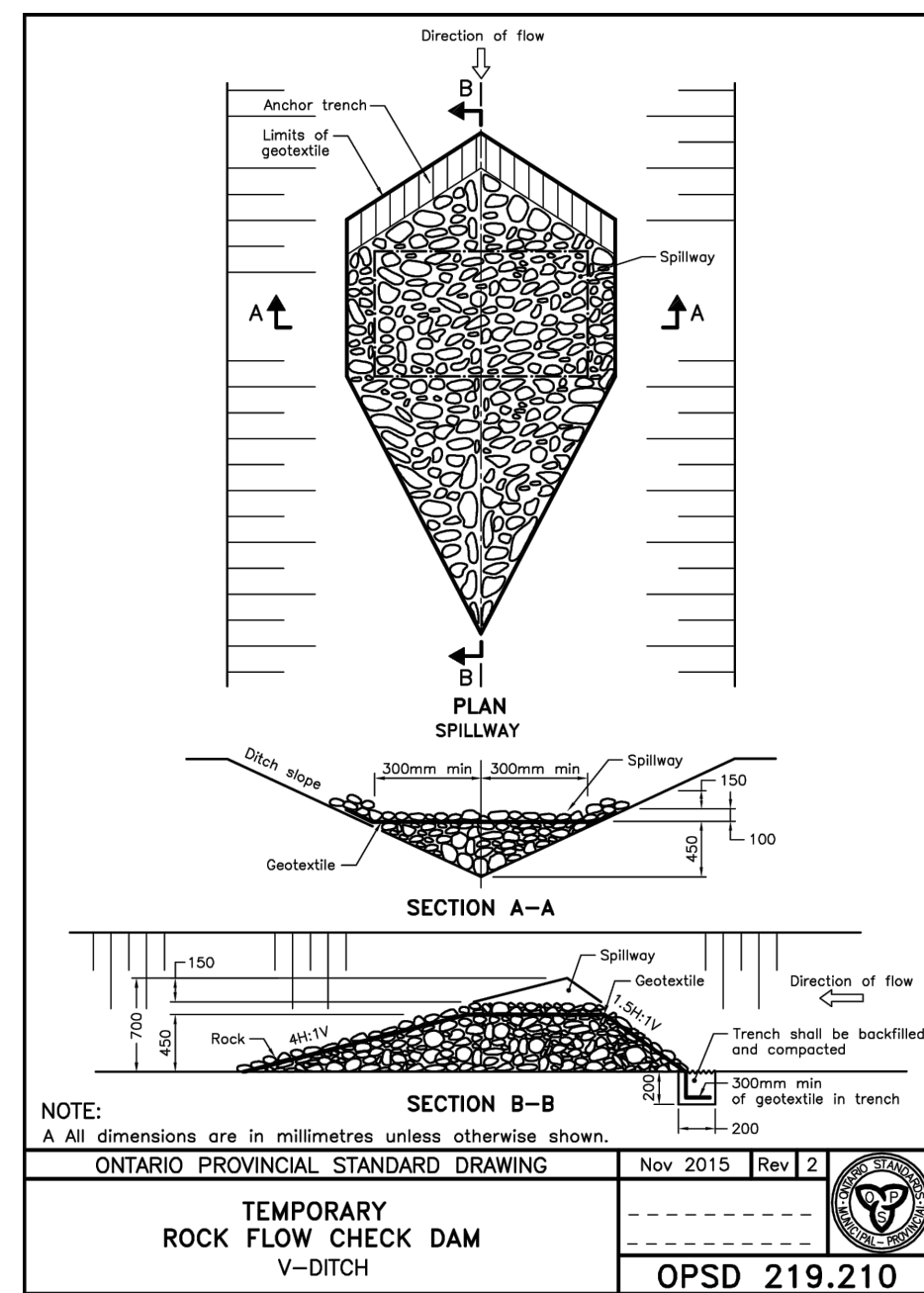
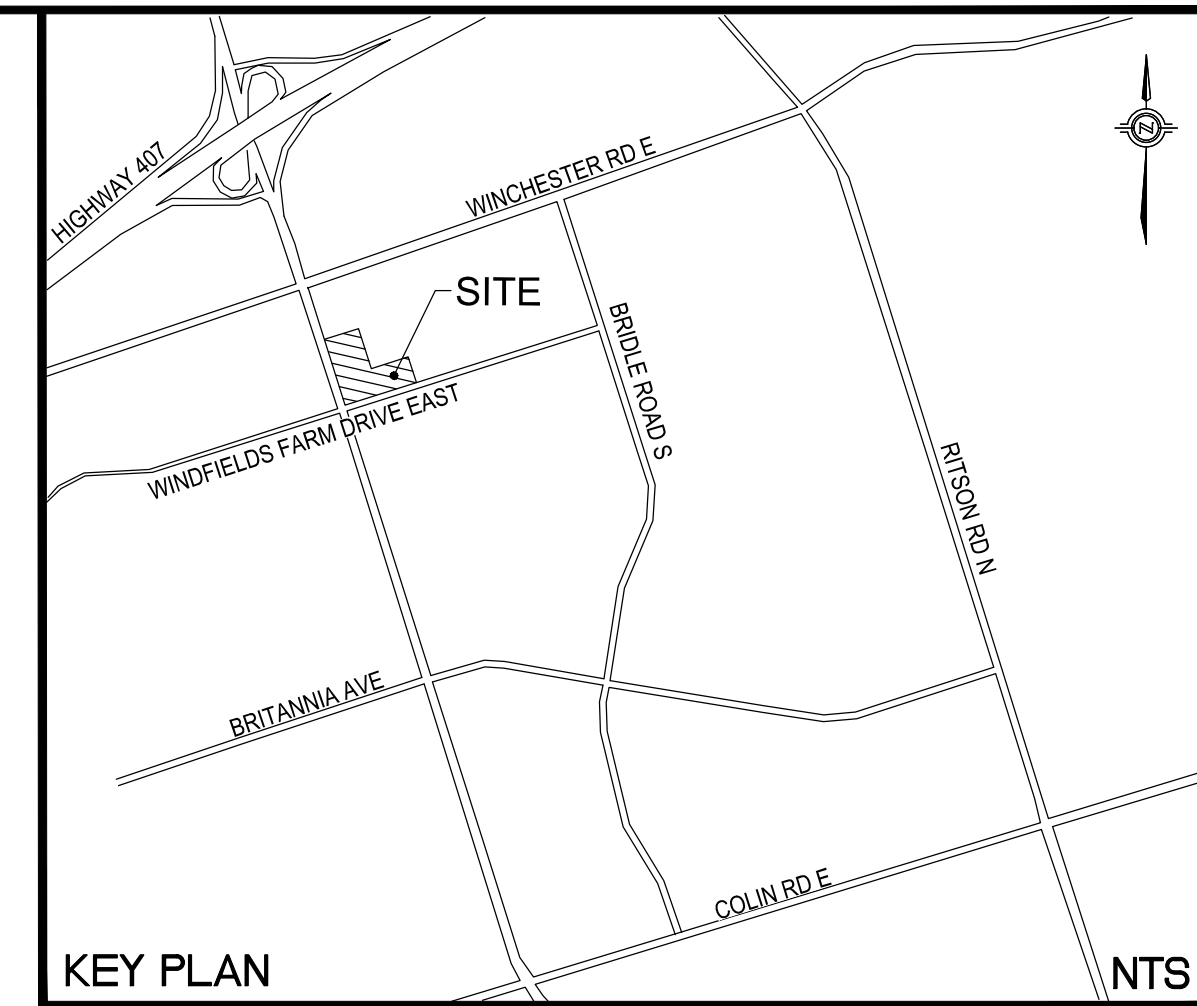
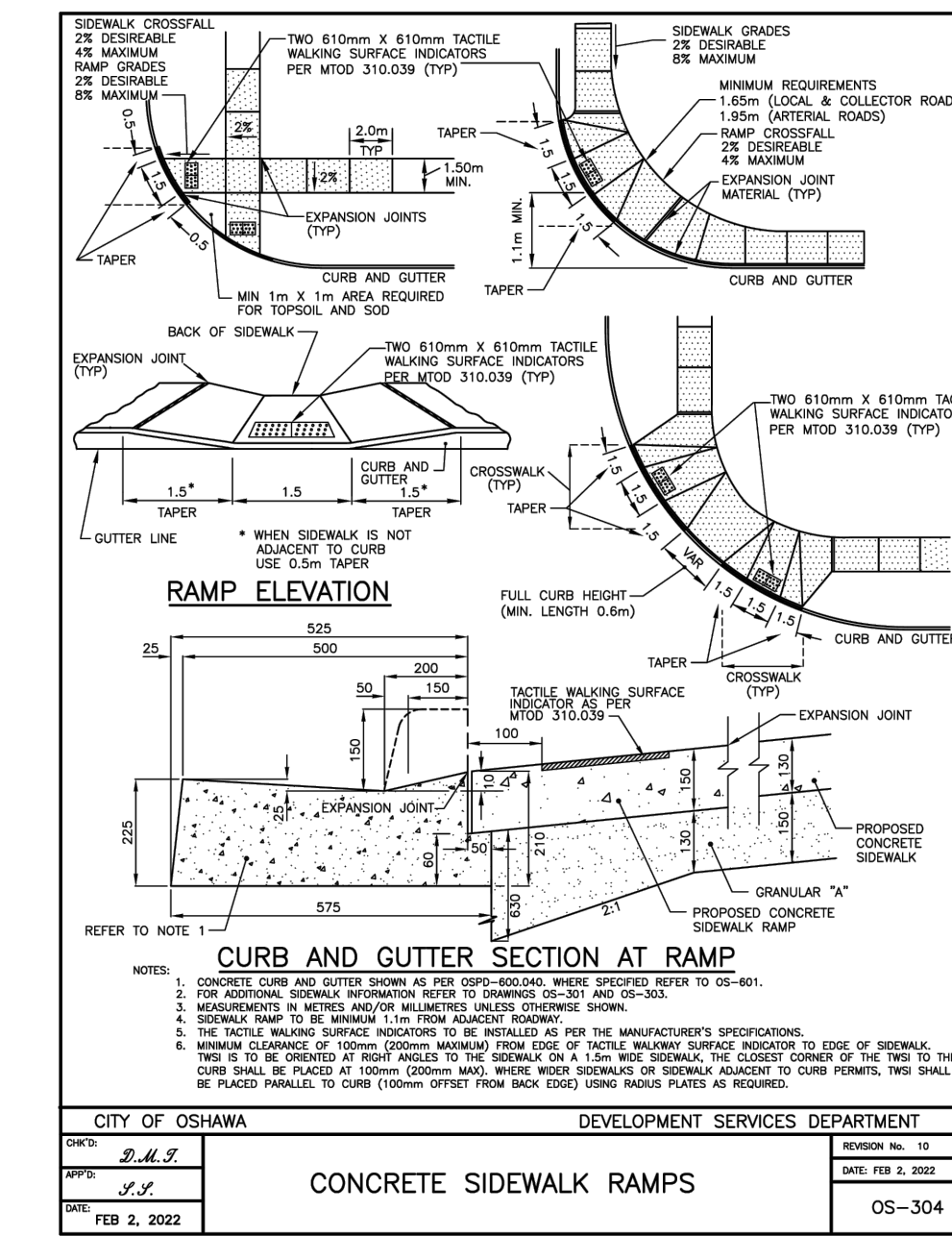
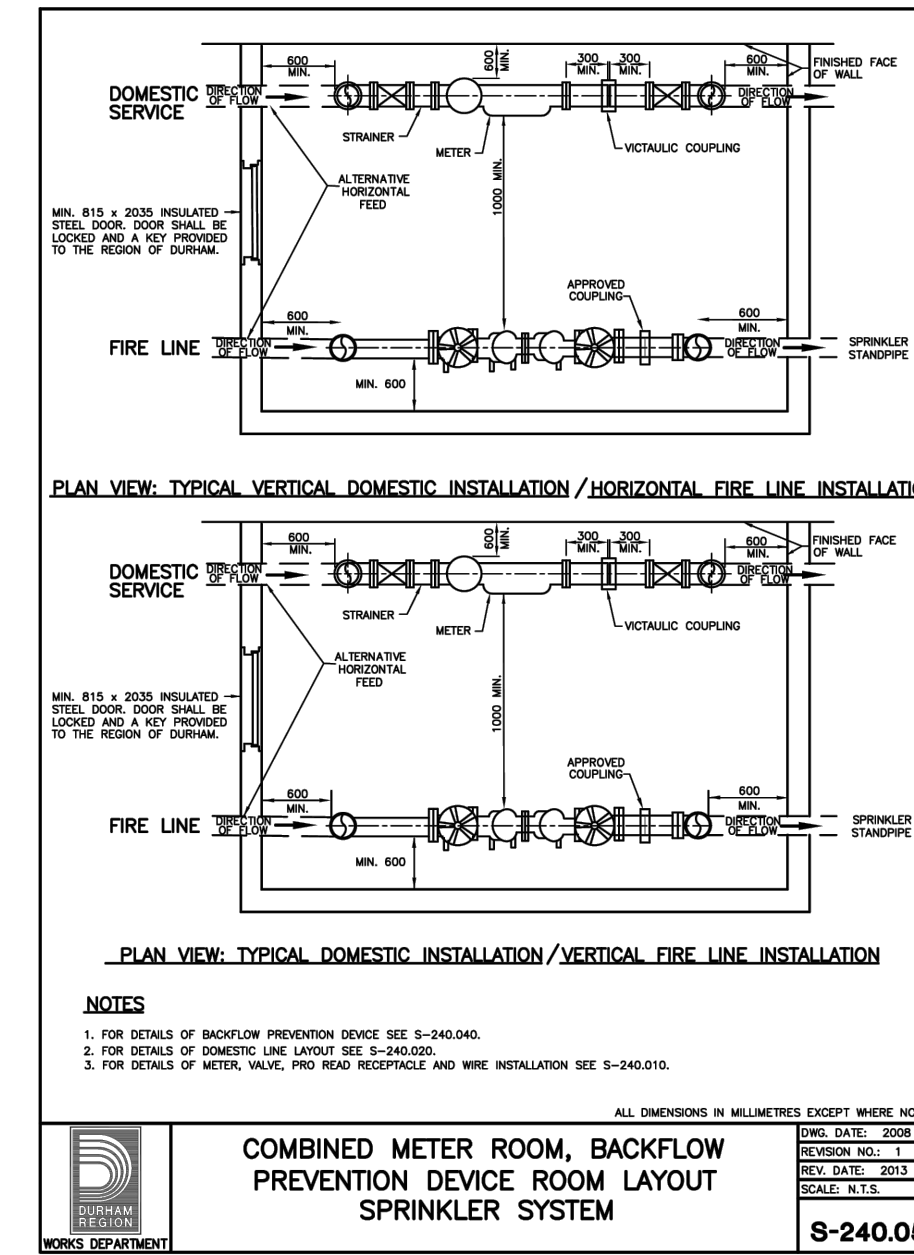
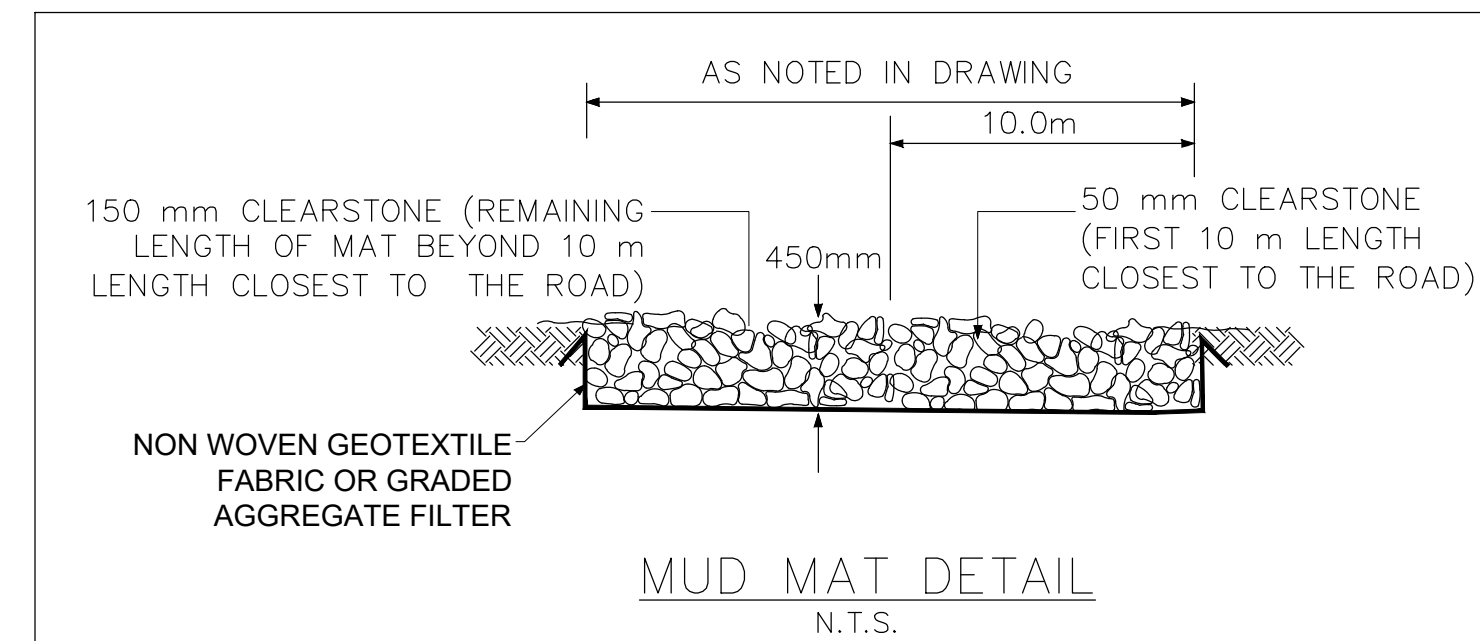
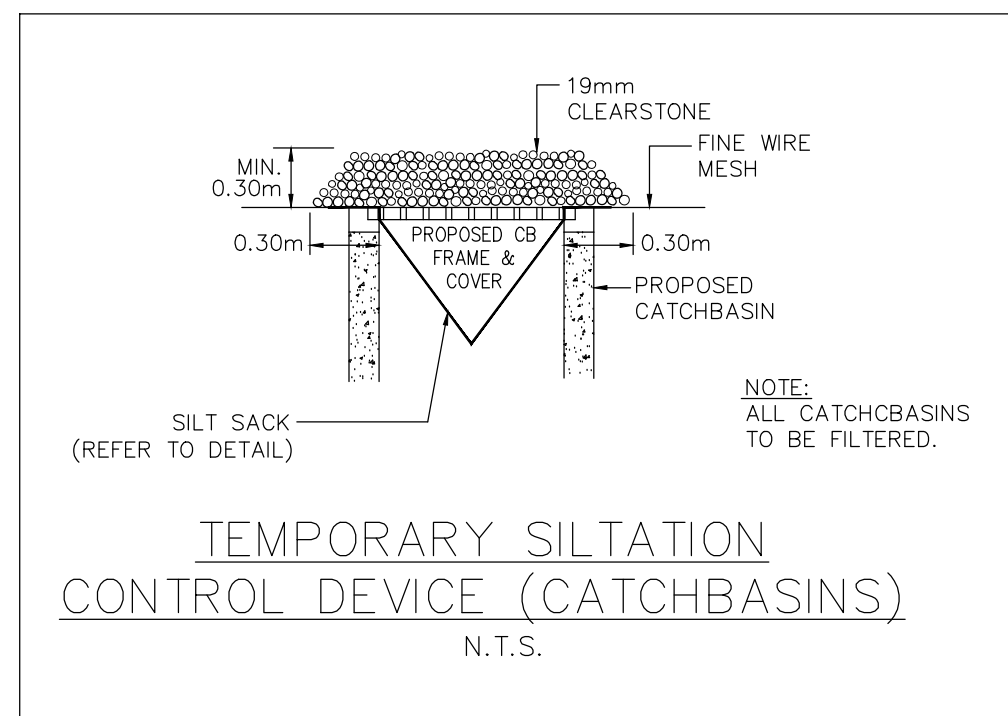
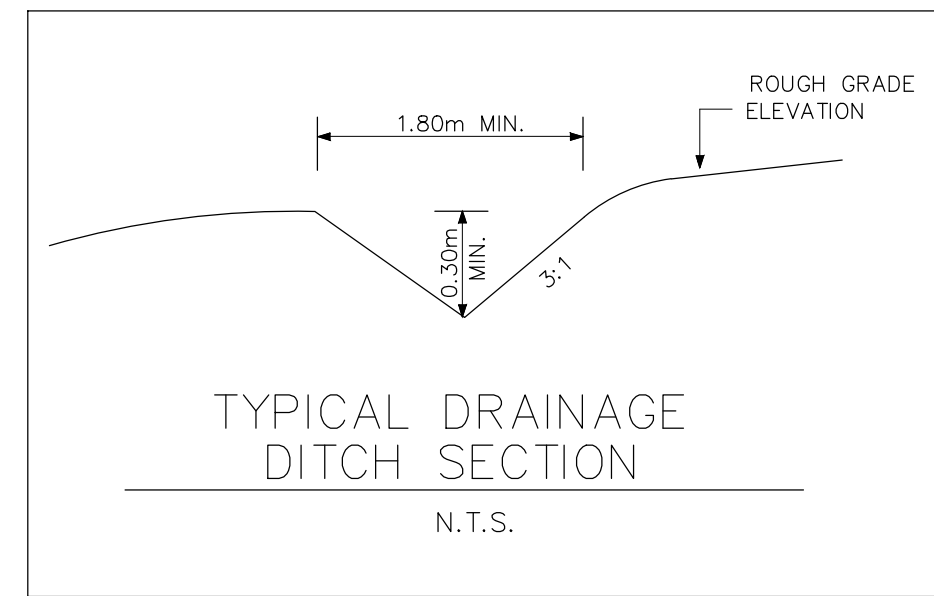
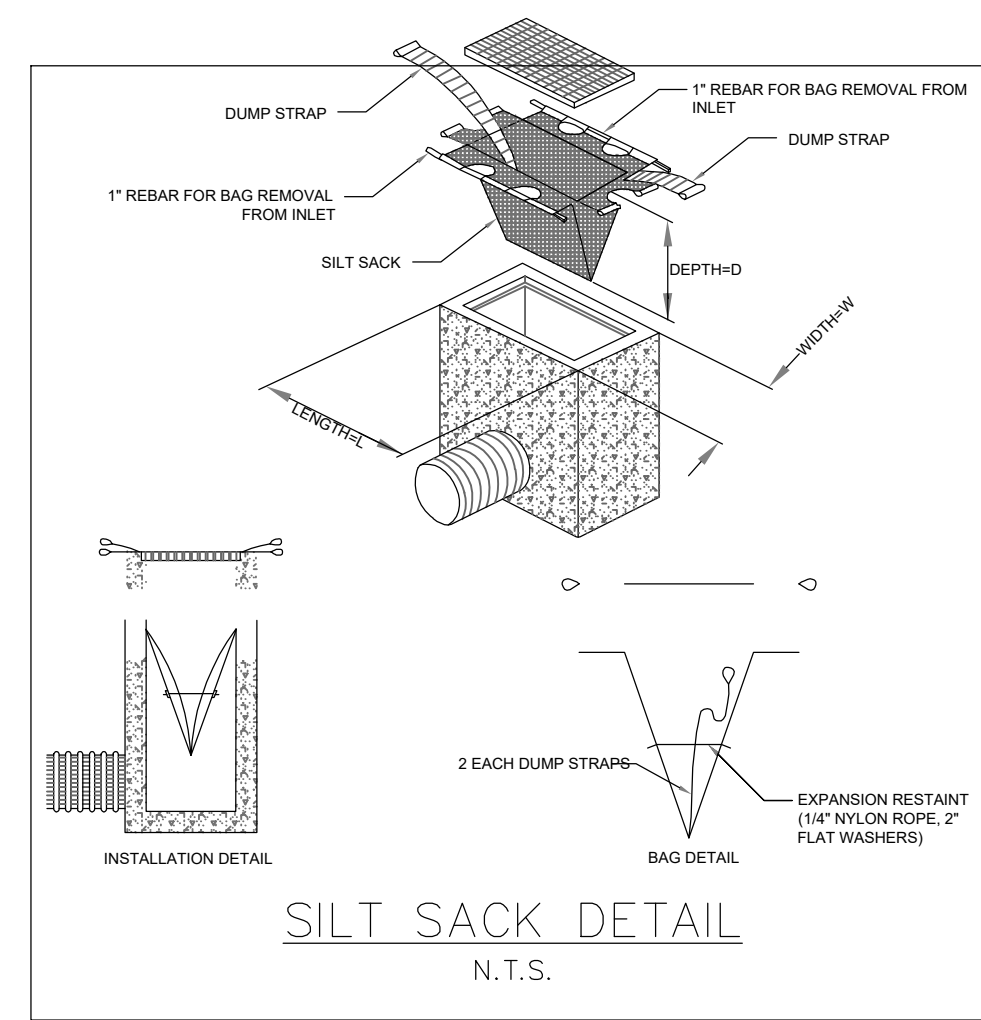
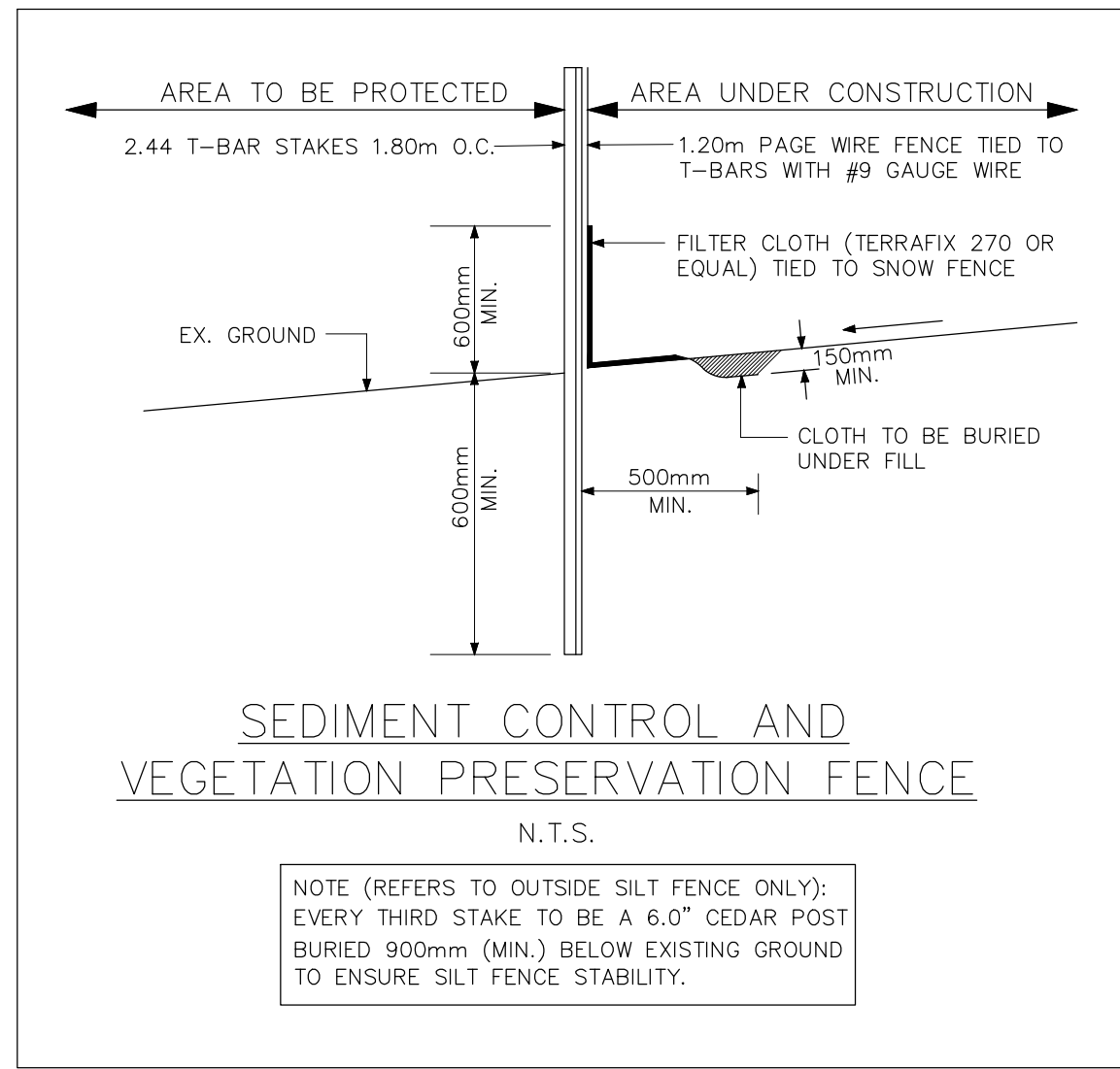
RIOCAN SITE B
 (PHASE 2 NORTH PART OF FUTURE SITE PLAN APPLICATION AND IS SHOWN FOR INFORMATION ONLY)

COSTCO SITE
 (BY OTHERS)



WINDFIELDS FARM DRIVE EAST

EX. 250mm PVC SAN @ 2.00%



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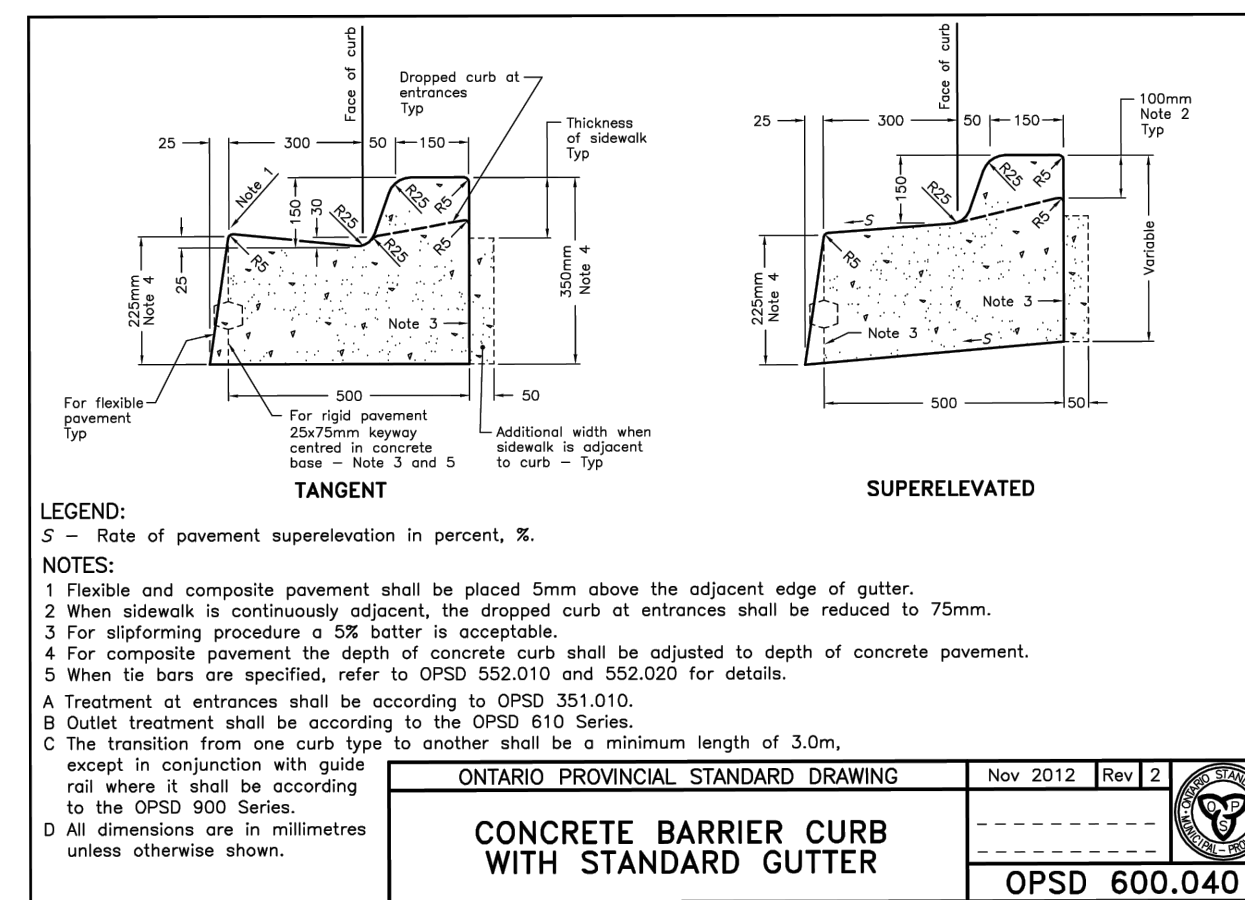
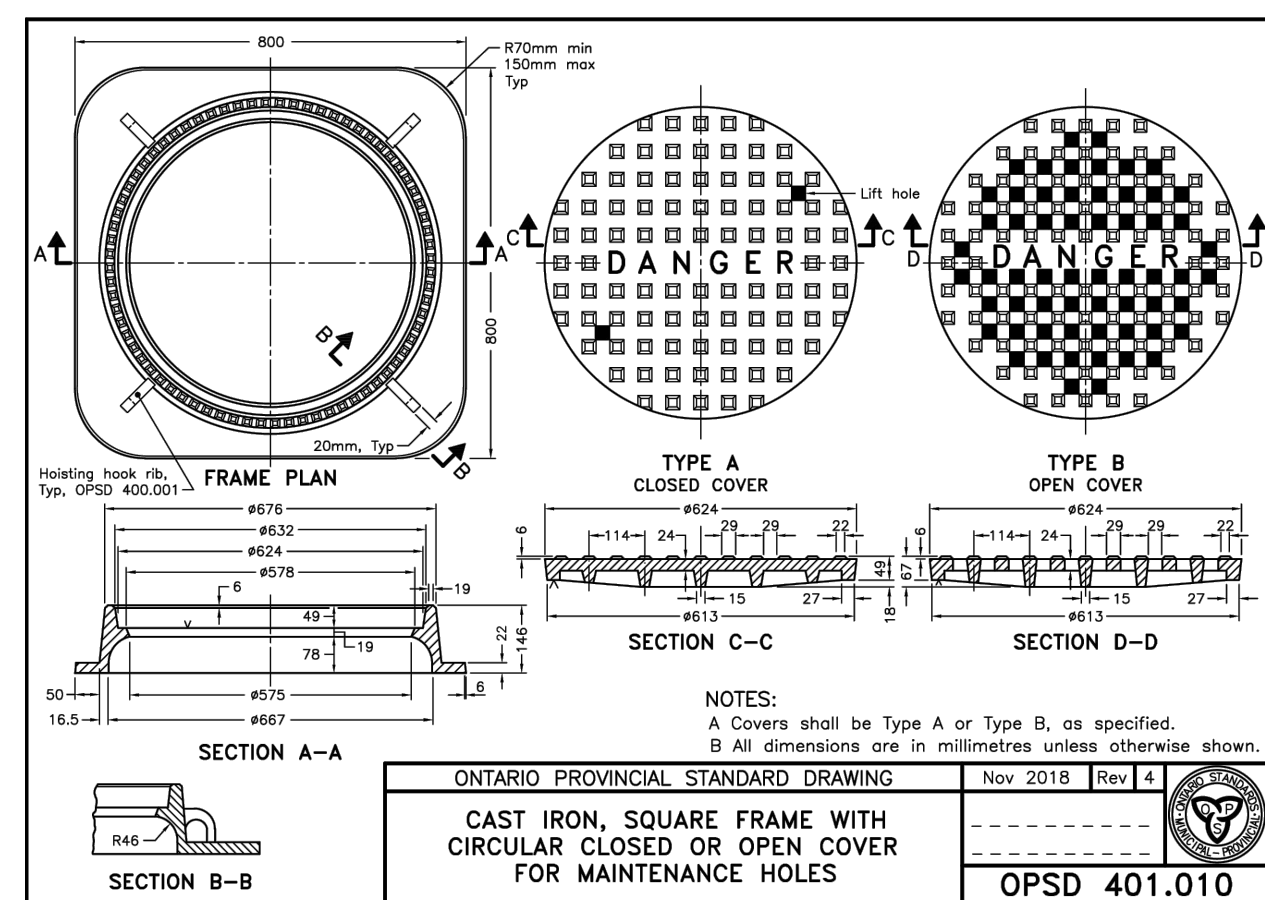
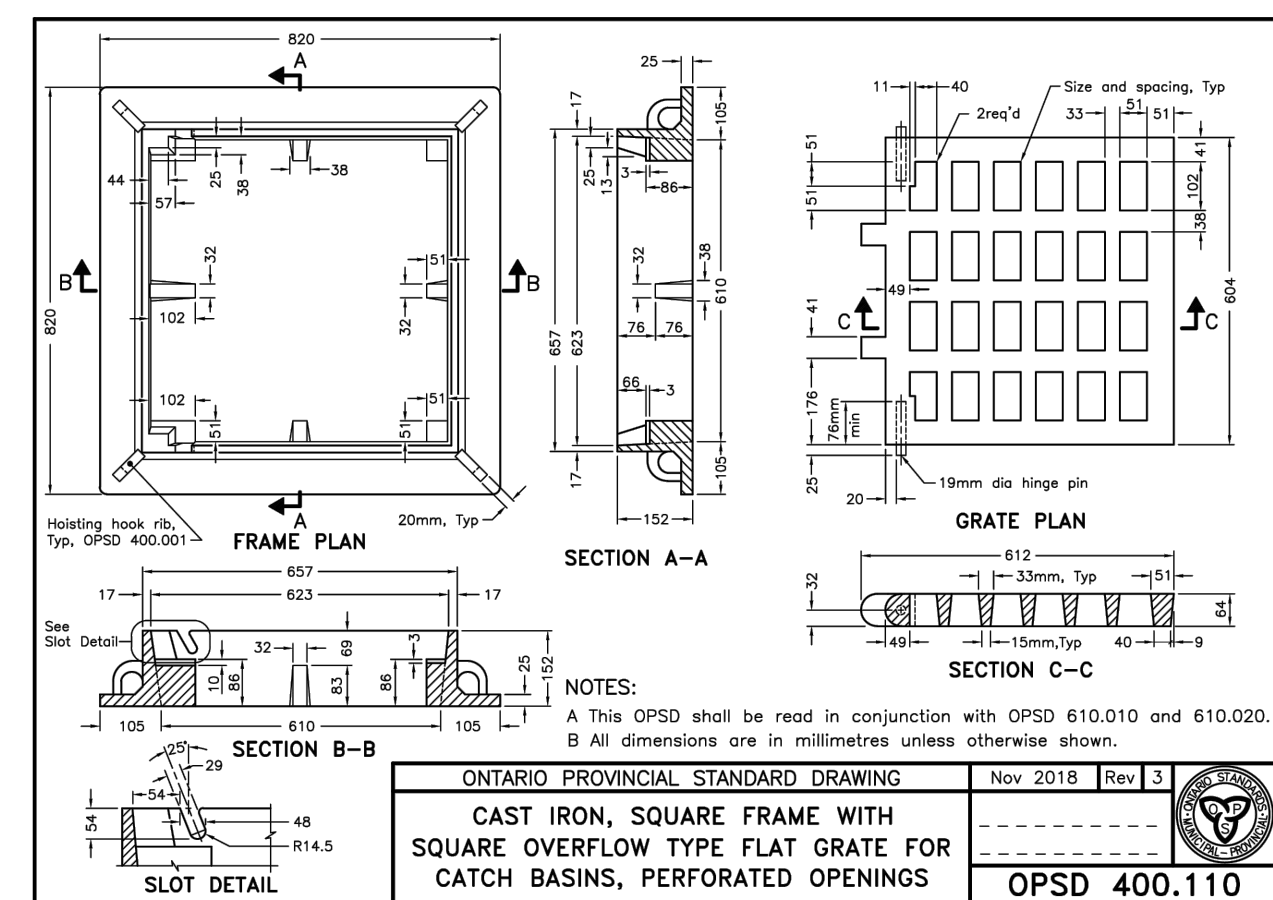
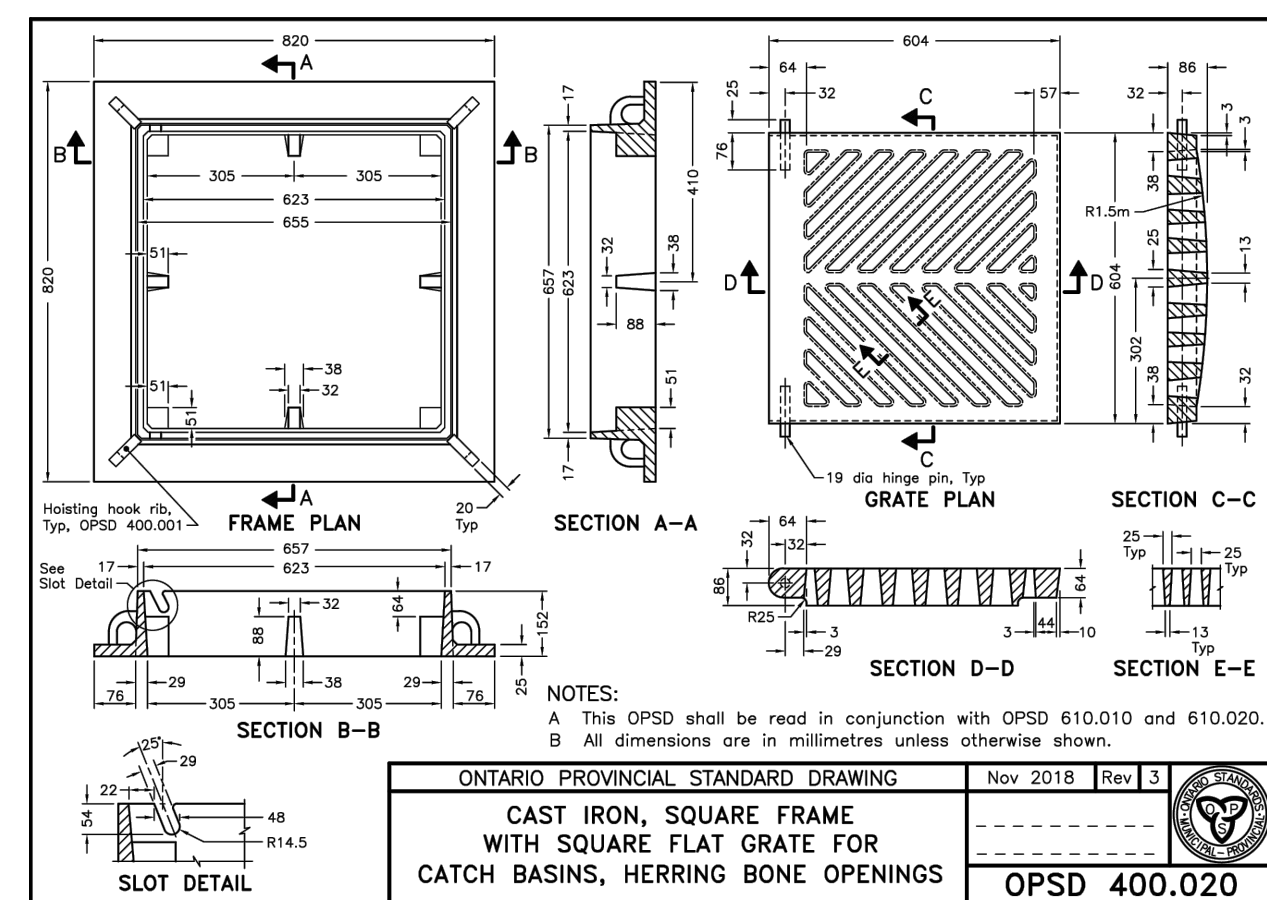
RIOCAN COMMERCIAL SITE B2
PART OF LOT 12, CONCESSION 5
CITY OF OSHAWA, ON

DETAILS (PHASE 2)

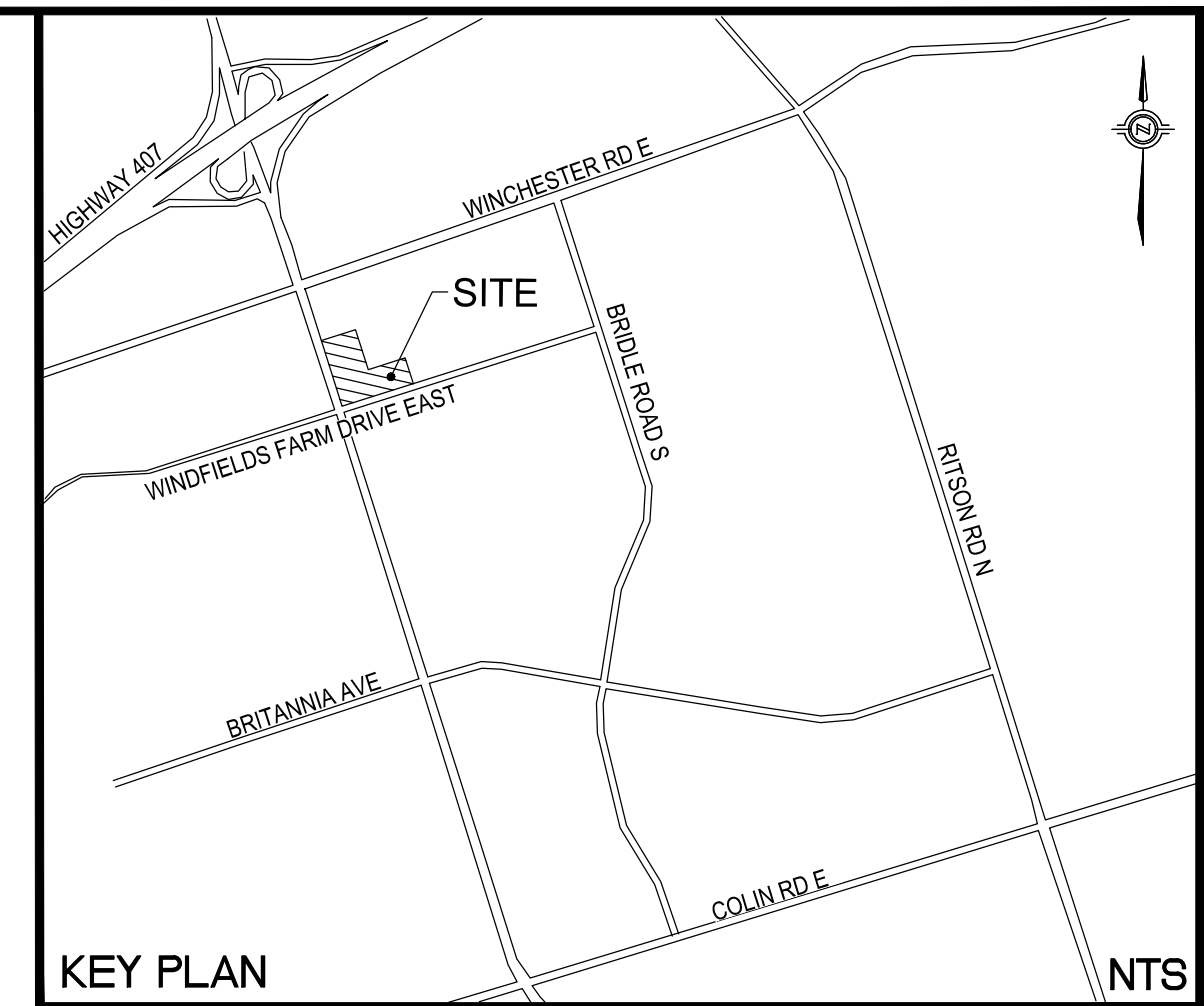
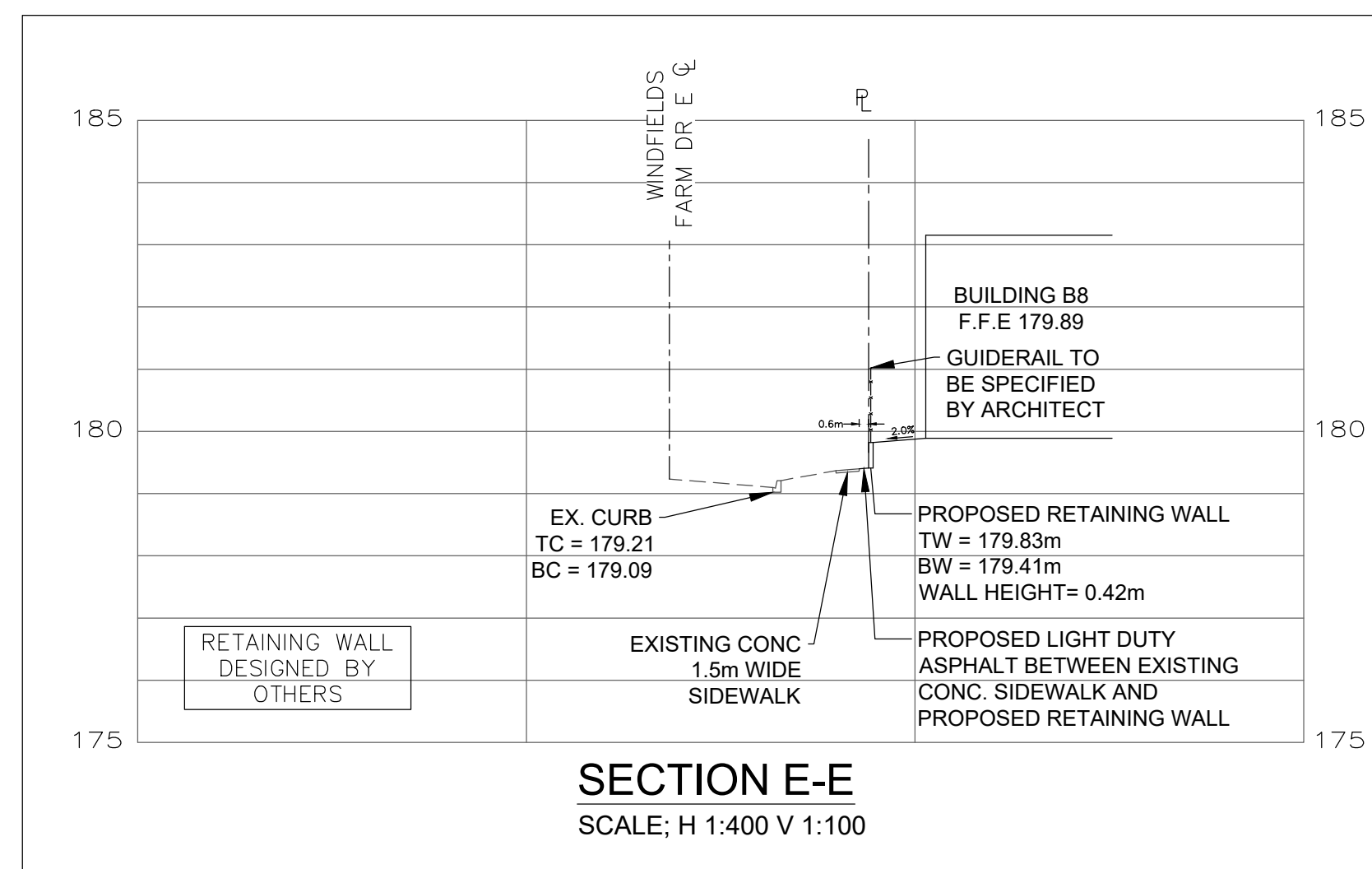
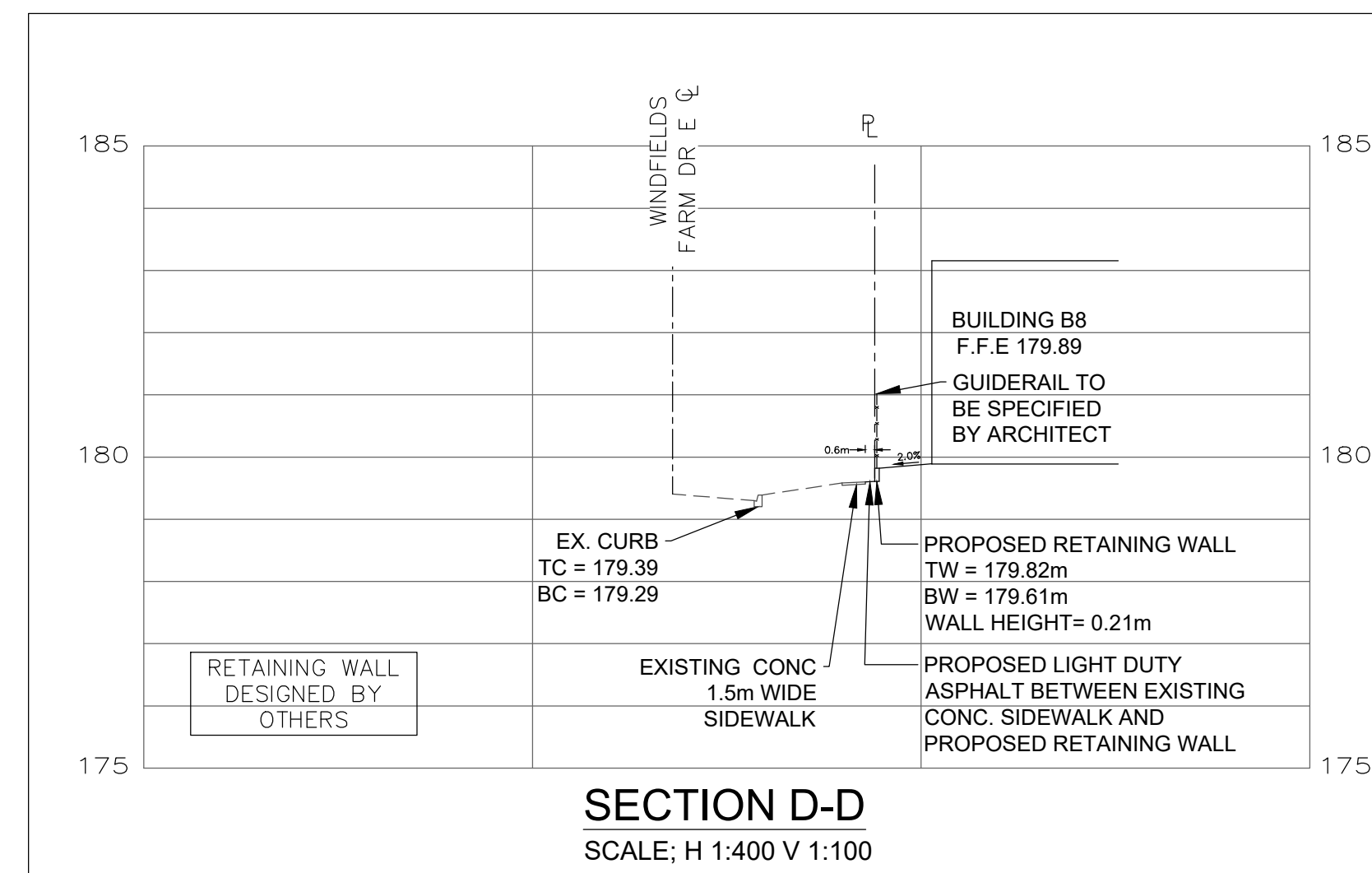
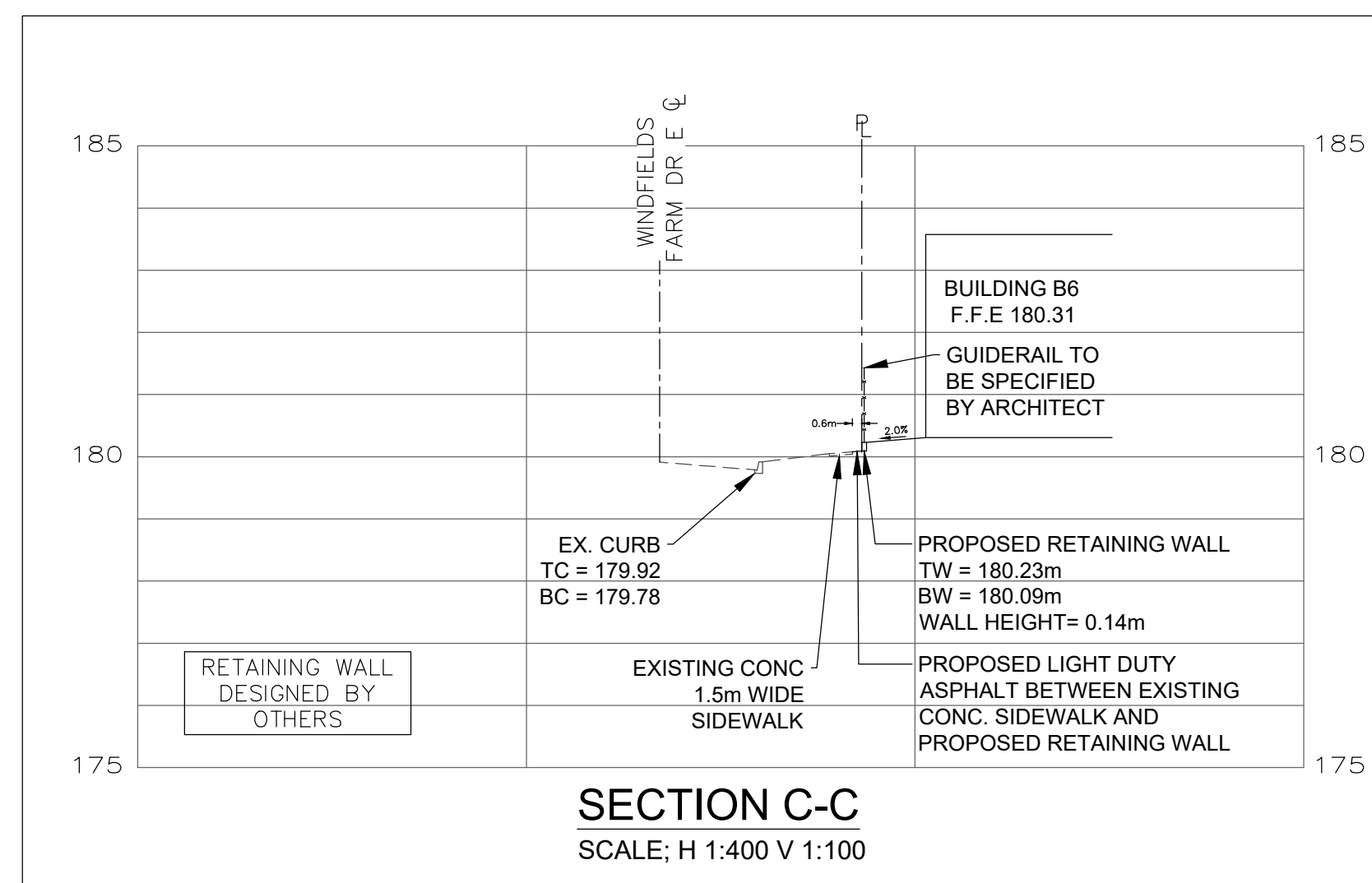
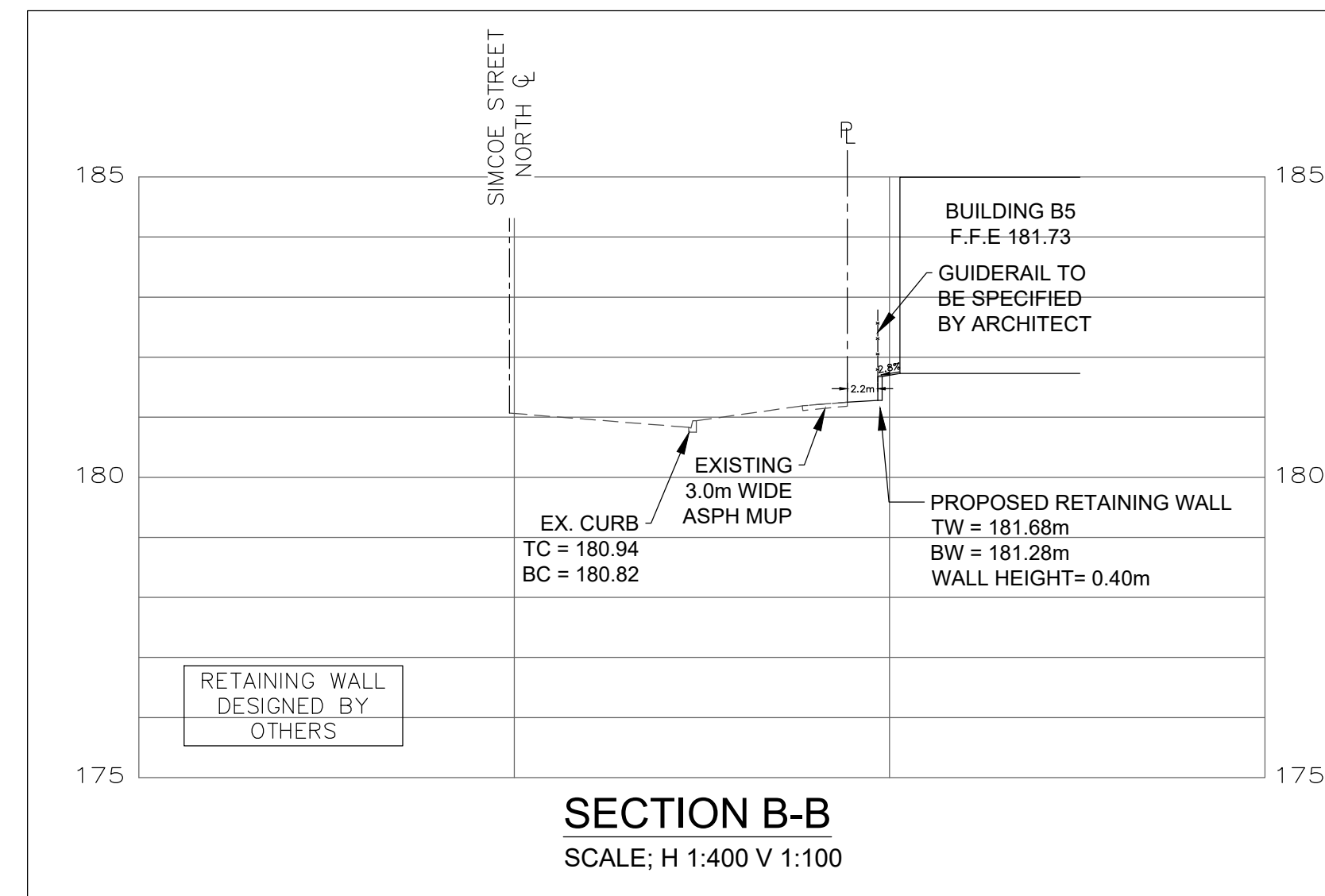
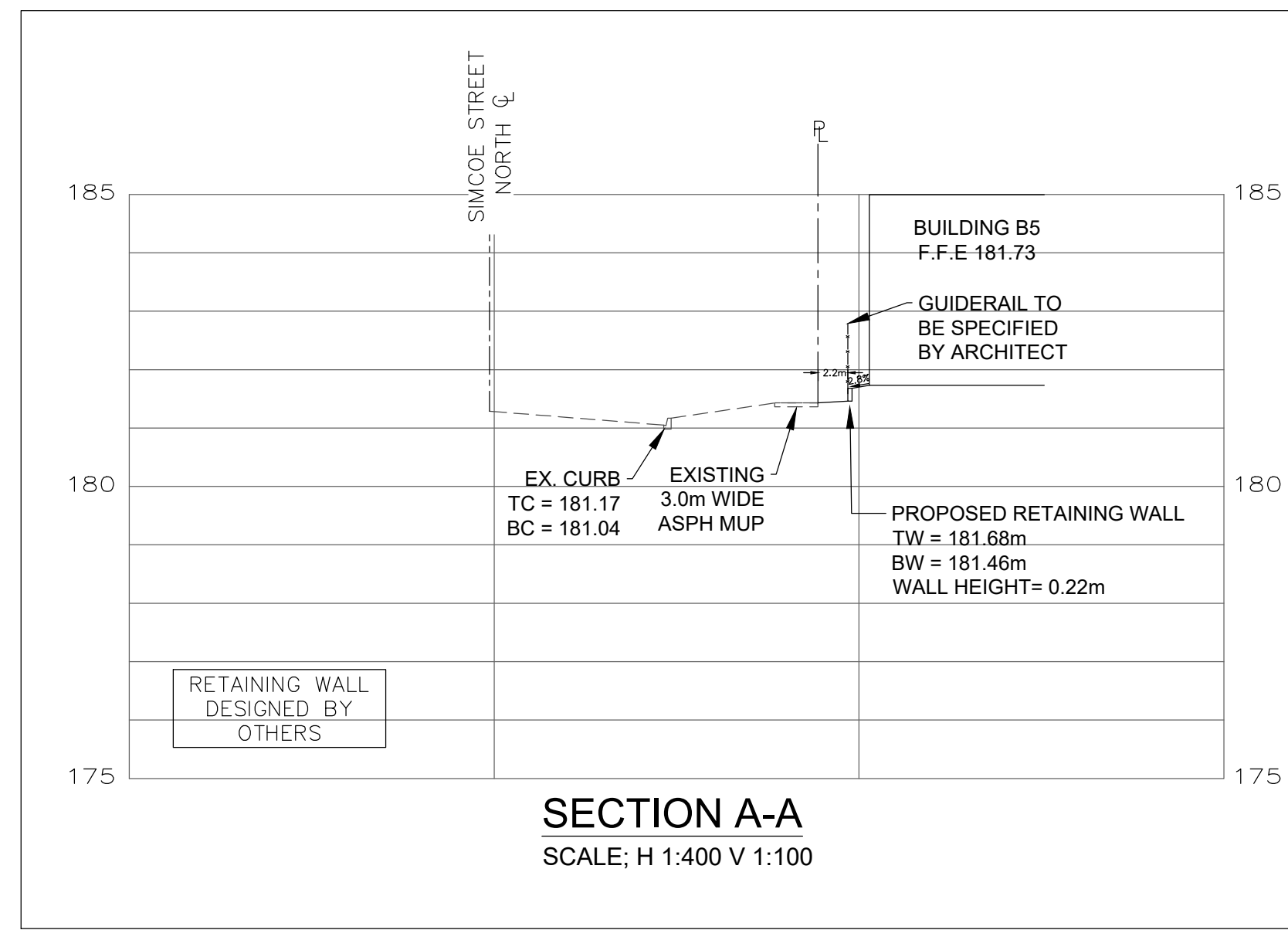
DRAWN BY	LOC.	CONST.	CITY	DESIGN BY	C.S.	CHKD. BY	K.K.	APPD. BY
DATE			REGION	DESIGN BY	C.S.	CHKD. BY	K.K.	APPD. BY

SCALE: N.T.S.

211-01713-00 DWG. No. DT2 (PH2)



Jun 19, 2024 - 2:21pm
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REFER TO DRAWING GR-1 FOR CORRESPONDING SECTION LOCATIONS



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ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED

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PART OF LOT 12, CONCESSION 5
CITY OF OSHAWA, ON
CROSS SECTIONS

DRAWN BY	LOC.	CONST.	CITY	DESIGN BY	C.S.	CHKD. BY	K.K.	APPD. BY
DATE			REGION	DESIGN BY	C.S.	CHKD. BY	K.K.	APPD. BY

SCALE AS NOTED

211-01713-00 DWG. No. cs1 (PH2)