

## GENERAL NOTES:

1. ALL WORK WITHIN THE CITY RIGHT-OF-WAY SHALL BE CONSTRUCTED ACCORDING TO THE LATEST CITY OF TORONTO STANDARD DRAWINGS AND SPECIFICATIONS, ONTARIO PROVINCIAL STANDARD DRAWINGS AND SPECIFICATIONS MAY, SUBJECT TO THE APPROVAL OF THE CITY OF TORONTO, BE USED WHERE NO CITY STANDARD OR SPECIFICATION IS AVAILABLE.
2. ALL WORK SHALL BE COMPLETED ACCORDING TO THE CURRENT OCCUPANCY HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS. THE GENERAL CONTRACTOR SHALL BE DEEMED TO BE THE CONSTRUCTOR AS DEFINED IN THE ACT.
3. ALL TEMPORARY TRAFFIC CONTROL AND SIGNAGE DURING CONSTRUCTION SHALL BE ACCORDING TO THE CURRENT ONTARIO TRAFFIC MANUAL BOOK 7. TEMPORARY CONDITIONS FIELD EDITORIALS SHALL BE USED.
4. ALL TRENCHES WITH EXISTING RIGHT-OF-WAY SHALL BE BACKFILLED WITH UNSHRIKABLE FILL. TEMPORARY REPAIRS TO UTILITY CUTS WILL BE FOR MUNICIPAL CONSENT REQUIREMENTS APPROXIMATELY 10% TEMPORARY REPAIRS TO UTILITY CUTS. THE CONTRACTOR SHALL RECTIFY ALL DISTURBED AREAS TO THE ORIGINAL CONDITION OR BETTER AND TO THE SATISFACTION OF THE EXECUTIVE DIRECTOR, TECHNICAL SERVICES.
5. PRIOR TO COMMENCING ANY WORK WITHIN THE MUNICIPAL RIGHT-OF-WAY, THE CONTRACTOR OR DEVELOPER OR CONSULTANT WILL OBTAIN ALL NECESSARY ROAD OCCUPANCY PERMITS FROM THE CITY'S RIGHT-OF-WAY MANAGEMENT UNIT. CONTACT (NAME AND NUMBER) WILL DIFFER IN DIFFERENT PARTS OF THE CITY.
6. EXISTING STRUCTURES ARE NOT TO BE DISTURBED, NOR ENCROACHMENT ON ADJACENT PROPERTIES UNLESS INSTRUCTED BY THE ENGINEER.
7. THE APPROVAL OF THIS PLAN DOES NOT EXEMPT THE OWNER'S CONTRACTOR FROM OBTAINING AND PAYING FOR, BUT NOT LIMITED TO THE FOLLOWING PERMITS, ROAD CUTS, SEWER PERMITS, RELOCATION OF SERVICES, ENCROACHMENT AGREEMENTS, APPROACH APPROVAL PERMITS, ETC. AS PER CITY STANDARDS.
8. THE CONTRACTOR SHALL ENDEAVOR TO PREVENT MUD TRACKING ONTO EXISTING RIGHT-OF-WAYS AND SHALL PROVIDE FOR CLEANUP AT HIS OWN EXPENSE AS DIRECTED BY THE CITY. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE TO CONTROL DUST ON THE PROJECT AND HE SHALL PROVIDE AT HIS OWN EXPENSE, CONTROLLING MEASURES AS DIRECTED BY THE CITY.
9. ALL THE EXISTING SERVICES FROM 1637, 1639, 1641, 1643, AND 1645 BATHURST STREET SHALL BE DISCONNECTED BY THE CITY AT THE OWNER'S COST.
10. ALL THE PROPOSED SERVICE CONNECTIONS WITHIN MUNICIPAL RIGHT-OF-WAY TO BE INSTALLED BY THE CITY AT THE OWNER'S COST.

## CONSTRUCTION NOTES:

1. ALL AREAS DISTURBED DURING CONSTRUCTION WITHIN THE CITY'S RIGHT-OF-WAY SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION AND TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR. GRASS AREAS SHALL BE TREATED WITH 1000MM OF TOPSOIL AND SHALL BE SODDED ACCORDING TO TS 5.00 AND TS 5.10.
2. THE LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES ARE NOT NECESSARILY SHOWN AND, WHERE SHOWN ON THE DRAWINGS, THE ACCURACY OF THE LOCATION OF SUCH UTILITIES ARE NOT GUARANTEED. THE CONTRACTOR SHALL DETERMINE THE LOCATION AND DIMENSION OF ALL SUCH UTILITIES AND STRUCTURES BY CONSULTING THE APPROPRIATE AUTHORITIES OR UTILITY COMPANIES CONCERNED. THE CONTRACTORS SHALL PROVE THE LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND SHALL ASSUME ALL LIABILITY FOR DAMAGE OR RESTORATION TO SAME.
3. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DISCREPANCIES ARE TO BE REPORTED TO THE ENGINEER BEFORE PROCEEDING.
4. ANY DISCREPANCIES AND CONSTRUCTION DRAWINGS MUST BE REPORTED TO THE CITY PRIOR TO COMMENCEMENT OF CONSTRUCTION AND APPROPRIATE ACTION TAKEN TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR.
5. ALL SURVEY STAKE LAYOUT POINTS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE LAYOUT SHALL BE IMMEDIATELY REPORTED TO THE CITY.
6. ATTENTION IS DIRECTED TO THE POSSIBILITY OF EXISTING PRIVATE SPRINKLERS AND LIGHTING SYSTEMS WITHIN THE RIGHT-OF-WAY, WHICH ARE NOT SHOWN ON PLANS, LOCATING, WORKING AROUND AND PROTECTING THESE SYSTEMS SHALL BE COMPLETED AT NO EXTRA COST TO THE CITY.
7. ALL DIMENSIONS ARE EXPRESSED IN METERS AND PIPE SIZES ARE EXPRESSED IN MILLIMETERS UNLESS OTHERWISE NOTED.
8. ALL MATERIAL FOR SEWER, FORCEMAIN, WATERMAIN, HYDRANTS AND APPURTENANCES SHALL BE ACCORDING TO CITY OF TORONTO MATERIAL MANUFACTURE SPECIFICATIONS AS REQUIRED BY CHARTER. MATERIAL SPECIFICATIONS FROM DESIGN CRITERIA FOR SEWERS AND WATERMANS MANUAL.
9. UTILITY SEPARATION SHALL BE ACCORDING TO APPENDIX 'D' OF THE CITY OF TORONTO DESIGN CRITERIA FOR SEWERS AND WATERMANS MANUAL.
10. SERVICE CONNECTIONS AND UTILITY CUTS MADE IN ROAD PAVEMENTS SHALL BE BACKFILLED WITH UNSHRIKABLE FILL ACCORDING TO TS 4.00.
11. AT ALL LOCATIONS WHERE THE PROPOSED WATERMAIN CROSSES UNDER OR ABOVE THE EXISTING SEWERS, OR UTILITIES, GRANULAR A BEDDING MATERIAL IS TO EXTEND FROM THE LOWER PIPE TO THE TOP OF THE UPPER PIPE. GRANULAR A TO BE COMPACTED TO MINIMUM 98% OF MAXIMUM DRY DENSITY.
12. CONTRACTOR TO PROVIDE ADEQUATE SUPPORT DURING CONSTRUCTION BETWEEN THE NEW WATERMAIN AND EXISTING GAS MAINS. MAINTAIN 300mm MINIMUM VERTICAL CLEARANCES BETWEEN THE NEW WATERMAIN AND EXISTING GAS MAINS. MAINTAIN 600mm MINIMUM VERTICAL CLEARANCES BETWEEN THE NEW WATERMAIN AND EXISTING GAS MAINS. MAINTAIN 600mm MINIMUM VERTICAL CLEARANCES BETWEEN THE NEW WATERMAIN AND EXISTING GAS MAINS. MAINTAIN 600mm MINIMUM VERTICAL CLEARANCES BETWEEN THE NEW WATERMAIN AND EXISTING GAS MAINS.
13. ALL EXISTING WATERMANS AND SEWER PIPES LARGER THAN 300mm DIAMETER SHALL BE SUPPORTED ACCORDING TO DRAWING T-1007.01-4.
14. ALL PROPOSED SERVICE CONNECTIONS WITHIN THE MUNICIPAL RIGHT-OF-WAY TO BE INSTALLED BY THE CITY AT THE OWNER'S COST.

## GRADING / EARTHWORKS

1. RECONSTRUCTION OF DRIVEWAY ENTRANCES SHALL BE ACCORDING TO T-310.050-8.
2. RESIDENTIAL CURB AND GUTTER SHALL BE AS PER CITY OF TORONTO T-600.07-1 WITH SUBGRANS AS PER T-216.02-8.
3. CURB RADI AT INTERSECTIONS SHALL BE 7.5m UNLESS SHOWN OTHERWISE.
4. LIMITS OF SIDEWALK/CURB RECONSTRUCTION ARE APPROXIMATE. ACTUAL LIMITS ARE TO BE CONFIRMED IN THE FIELD BY THE CONTRACT ADMINISTRATOR.
5. CHANGES IS ESTABLISHED FROM THE CENTRELINE OF CONSTRUCTION AND GUTTER GRADES ARE CALCULATED ALONG THE GUTTER LINE.
6. HEIGHT OF CURB FACES MAY VARY ALONG LENGTH OF GUTTER, AS SHOWN ON PROFILE, OR TO BE CONFIRMED IN THE FIELD.
7. ADJUST ALL STRUCTURES (MAINTENANCE HOLES, CATCH BASINS, ETC.) TO SUIT NEW DESIGN ELEVATIONS INCLUDING BREAKING DOWN AND REMOVAL OF PORTION OF EXISTING STRUCTURES TO ALLOW MINIMUM 150mm MINIMUM ADJUSTMENT.
8. ALL CURBS SHALL BE CONSTRUCTED WITH A LEDGE AT THE BACK OF THE CURB TO FACILITATE FUTURE SIDEWALK CONSTRUCTION.
9. FULL DEPTH SAW-CUTS ARE REQUIRED AT CONSTRUCTION LIMITS OF EXISTING CURB, SIDEWALK AND PAVEMENT UNLESS OTHERWISE SHOWN.
10. SAW CUT EXISTING PAVEMENT, SIDEWALK, CURB, GUTTER, DRIVEWAYS, WALKWAYS, ETC. AT CONSTRUCTION LIMITS TO PROVIDE A CLEAN CUT FOR THE PROPOSED WORK.
11. CONSTRUCT REINFORCED SIDEWALKS WITH TACTILE WALKING SURFACE INDICATORS ACCORDING TO T-310.030-7.
12. EXISTING ENTRANCED, REINFORCED SIDEWALK RAMPS SHALL BE ACCORDING TO T-310.030-11.
13. ADJUSTMENT OF APPROACHES, WALKWAYS, AND STEPS MAY BE REQUIRED. LIMITS ARE TO BE DETERMINED IN THE FIELD BY THE CONTRACT ADMINISTRATOR.
14. EXISTING ASPHALT THICKNESS MAY VARY, TAPER TO MATCH EXISTING AT CONSTRUCTION LIMITS (MINIMUM 2.0M).
15. FILTER FABRIC TO BE PLACED UNDER GRATES ON ALL CATCHBASINS TO TRAP SEDIMENTS. SILT TRAPS ARE TO BE CLEANED REGULARLY. AND ARE NOT TO BE REMOVED UNTIL THE CURBS ARE CONSTRUCTED AT THE BOWLEWARDS ARE SODDED OR BACKWARDS GRADED AND SODDED. FILTER FABRIC FOR SILT CONTROL TO BE TERRA FIB 270R OR APPROVED EQUIVALENT.
16. SUPERPAVE ASPHALT MIXES SHALL BE ACCORDING TO TS 1101 AND TS 1151.
17. ALL EARTHWORKS MATERIALS INCLUDING FILLING, BACKFILLING, BEDDING, SUBGRADE SHALL BE INSPECTED AND APPROVED BY A GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT AND COMPACTION.

## EROSION AND SEDIMENT CONTROL:

1. EROSION AND SEDIMENT CONTROL (ESC) MEASURES WILL BE IMPLEMENTED PRIOR TO, AND MAINTAINED DURING CONSTRUCTION PHASES. TO PREVENT ENTRY OF SEDIMENT INTO THE WATER. ALL DAMAGED EROSION AND SEDIMENT CONTROL MEASURES SHOULD BE REPAIRED OR REPLACED WITHIN 48 HOURS OF INSPECTION OR BOTH.
2. CHECK DAMS AND SILTATION CONTROL FENCES SHALL BE INSTALLED AND MAINTAINED AS REQUIRED TO PREVENT SILT FROM FLOWING ONTO THE ADJACENT LAKES.
3. HOARDING OR SNOW FENCING SHALL BE ERECTED AND MAINTAINED PRIOR TO ANY GRADING OR CONSTRUCTION AND SHALL REMAIN IN PLACE AND IN GOOD REPAIR THROUGHOUT THE CONSTRUCTION AND GRADING PHASE.
4. FILTER FABRIC SHALL BE PLACED UNDER ALL STREET CATCHBASINS GRATES. SILT TRAPS ARE TO BE CLEANED REGULARLY AND ARE NOT TO BE REMOVED UNTIL CURBS ARE CONSIDERED AND BOWLEWARD ARE GRADED AND SODDED. FILTER FABRIC USED FOR SILT CONTROL SHALL BE TERRA FIB 270R OR AN APPROVED EQUIVALENT.
5. THE CONTRACTOR SHALL ENDEAVOR TO PREVENT MUD TRACKING ONTO EXISTING RIGHT-OF-WAY AND SHALL PROVIDE FOR CLEANUP AT HIS OWN EXPENSE AS DIRECTED BY THE CITY. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE TO CONTROL DUST ON THE PROJECT AND SHALL PROVIDE, AT HIS OWN EXPENSE, CONTROLLING MEASURES AS DIRECTED BY THE CITY.
6. PROPOSED MID MAT DETAIL SHALL BE IN ACCORDANCE TO "EROSION & SEDIMENT CONTROL GUIDELINE FOR URBAN CONSTRUCTION" DETAIL DECEMBER 2006.
7. THE EROSION AND SEDIMENT CONTROL STRATEGIES OUTLINED ON THE PLANS ARE NOT STATIC AND MAY NEED TO BE UPDATED/AMENDED AS SITE CONDITIONS CHANGE TO MINIMIZE SEDIMENT LAZEN RUNOFF FROM LEAVING THE WORK AREA. IF THE PRESCRIBED MEASURES ON THE PLANS ARE NOT EFFECTIVE IN PREVENTING THE RELEASE OF A DETRIMENTAL SUBSTANCE, THEN ALTERNATIVE MEASURES MUST BE IMPLEMENTED IMMEDIATELY TO MINIMIZE POTENTIAL ECOLOGICAL IMPACTS AND A TORONTO REGION CONSERVATION AUTHORITY ENFORCEMENT OFFICE SHOULD BE IMMEDIATELY CONTACTED. ADDITIONAL ESC MEASURES TO BE KEPT ON SITE AND USED AS NECESSARY.

## WATERMAIN:

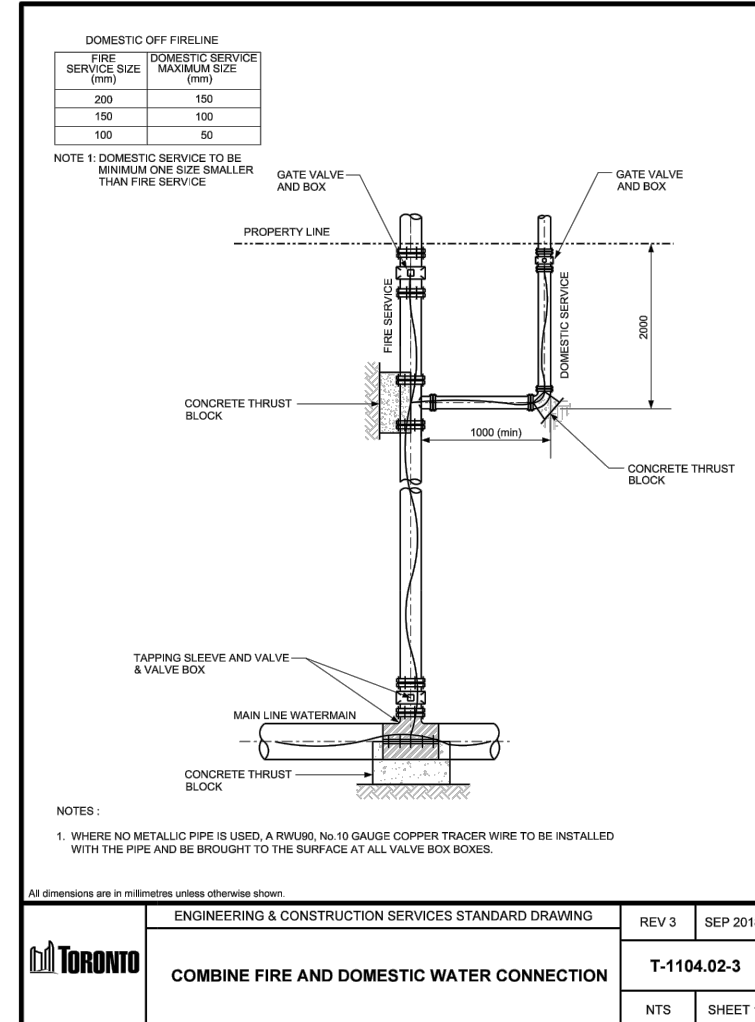
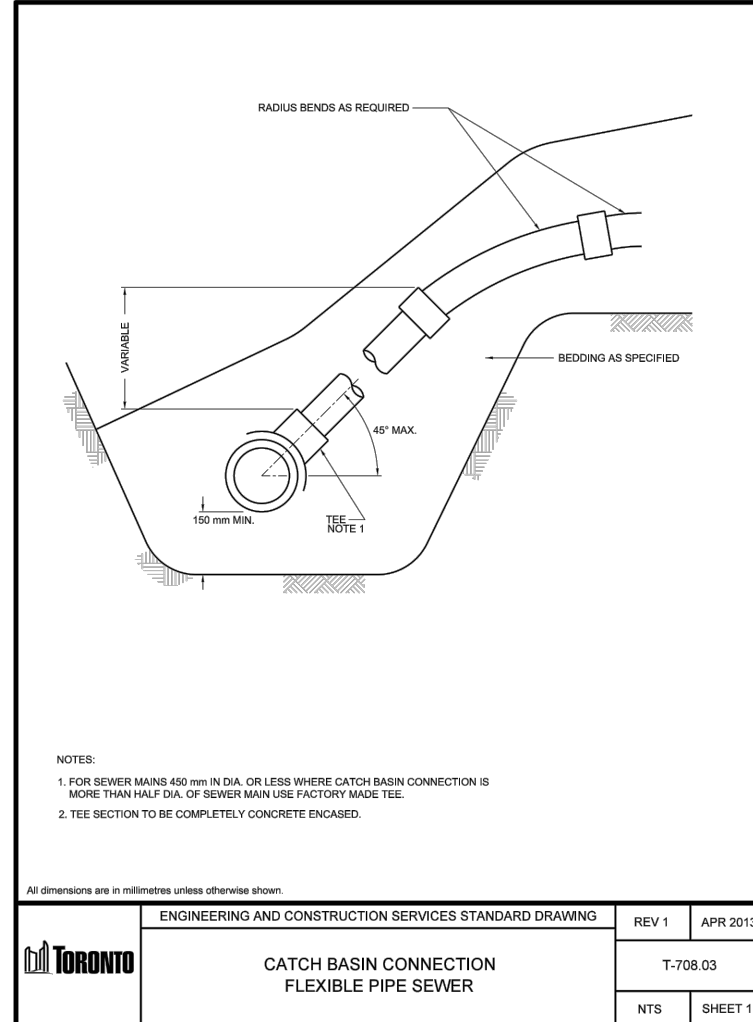
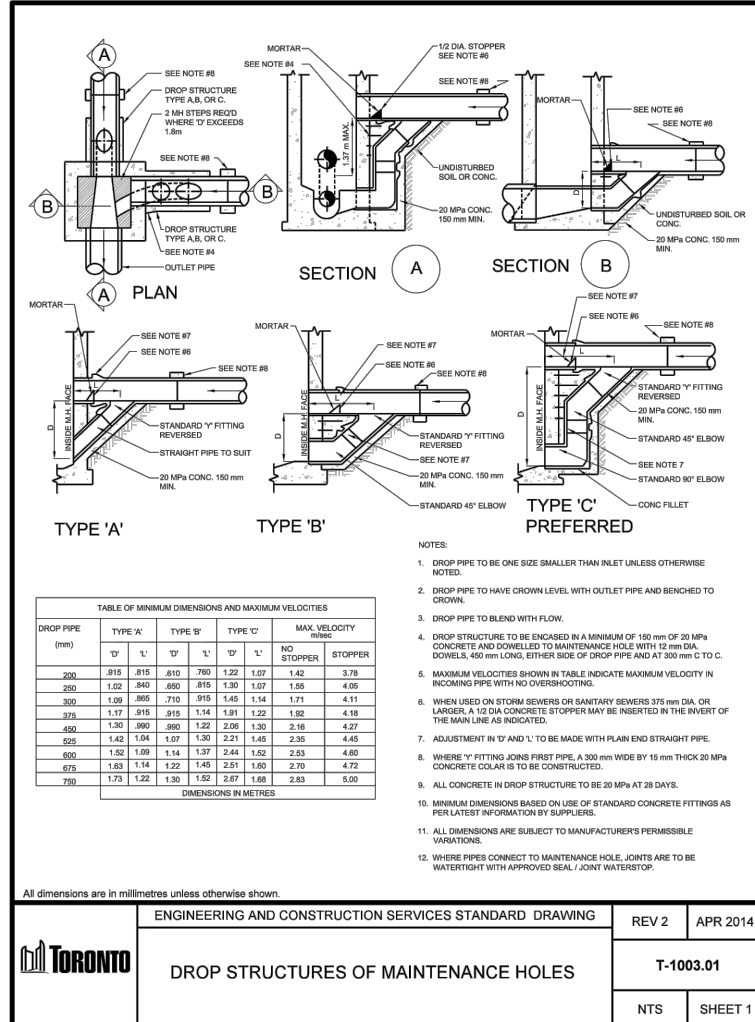
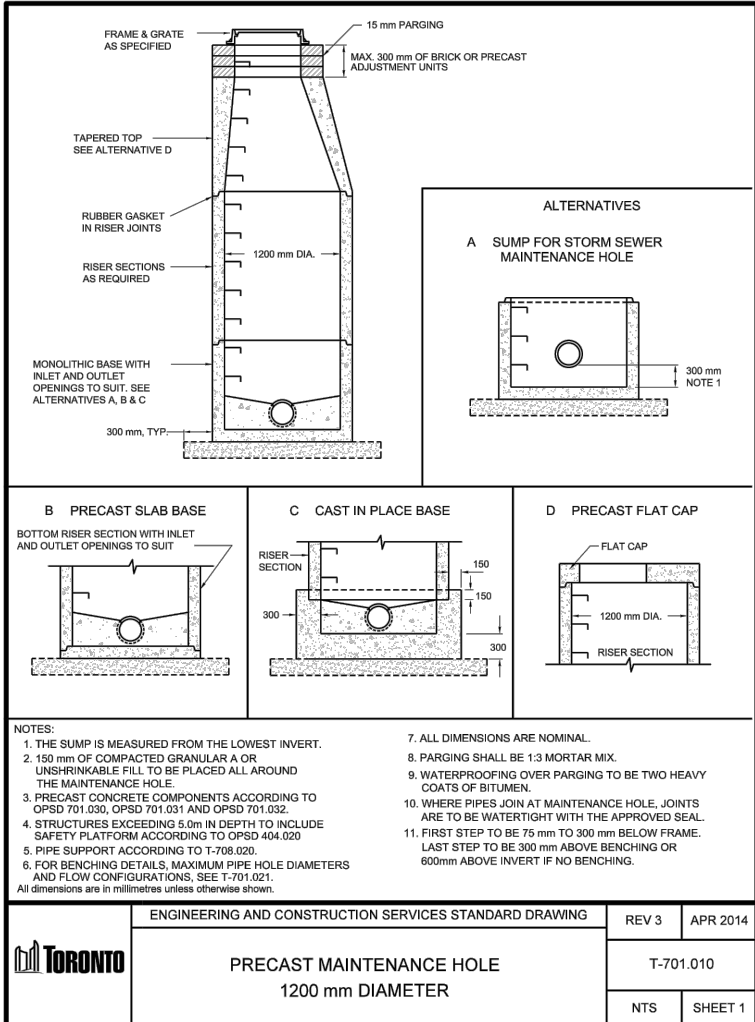
1. PVC WATERMANS SHALL BE MINIMUM DR 18 CLASS 235 (AWWA) C900-07 OR MOLECULAR ORIENTED POLYVINYL CHLORIDE (PVCOD) PIPES RANGING IN SIZE FROM 100mm TO 300mm IN DIAMETER PRESSURE CLASS 235 AWWA C909-09. PVC PIPES RANGING IN SIZE FROM 350mm THROUGH 600mm IN DIAMETER, SHALL BE PRESSURE RATING 235, DR 18, ACCORDING TO AWWA C905-10.
2. EMBEDMENT MATERIAL FOR FLEXIBLE PIPE SHALL BE ACCORDING TO OPSD 802.010 AND USING GRANULAR A ACCORDING TO TS 100.0.
3. MINIMUM COVER ON WATERMANS SHALL BE 1.8m.
4. ALL HYDRANTS SHALL BE CONSTRUCTED ACCORDING TO T-1105.01.
5. HYDRANT LEADS SHALL BE MINIMUM DR 18 CLASS 235 (AWWA) C900-07 OR PRESSURE CLASS 235 AWWA C909-09.
6. ALL SERVICE CONNECTIONS SHALL BE CONSTRUCTED ACCORDING TO T-1104.01, T-1104.02-1, T-1104.02-2, T-1105.02-1 AND T-1105.02-2.
7. SINGLE WATER SERVICE CONNECTIONS SHALL BE A MINIMUM OF 19mm DIA., TYPE 'X' SOFT COPPER ACCORDING TO T-1104.01. WHEN SERVICE LENGTH EXCEEDS 30m, THE DIAMETER SHALL BE 25mm DIA.
8. ALL CURB AND VALVE BOXES TO BE LOCATED AT STREET LINE.
9. MECHANICAL THRUST RESTRAINTS SHALL BE INSTALLED AT ALL FITTINGS, BONDS, TEES, CROSSES, REDUCERS AND VALVES FOR ALL WATERMAIN SIZES. MECHANICAL RESTRAINTS AT JOINTS SHALL BE INSTALLED AT EVERY JOINT 6.1m OF EITHER SIDE OF THE VALVE FOR WATERMANS 100mm DIAMETER OR LARGER.
10. ALL TEES, PLUGS, HORIZONTAL, VERTICAL, BONDS, REDUCERS AND HYDRANTS TO HAVE CONCRETE THRUST BLOCKS ACCORDING TO T-1103.01 AND T-1103.02.
11. WATERMANS MUST FOLLOW THE ONTARIO MINISTRY OF THE ENVIRONMENT PROCEDURE F-1 THAT GOVERN THE SEPARATION OF SEWERS AND WATERMANS. A MINIMUM VERTICAL CLEARANCE OF 0.30m WHEN CROSSING OVER AND 0.50m WHEN CROSSING UNDER SEWERS AND ALL OTHER UTILITIES IS REQUIRED. A 2.5m HORIZONTAL SEPARATION WITH SEWERS MUST BE MAINTAINED. ALL VALVES LESS THAN 400mm WILL BE IN A VALVE AND BOX ACCORDING TO T-1101.02-2. ALL VALVES 400mm AND LARGER SHALL BE A CHAMBER.
12. SACRIFICIAL ANODES SHALL BE INSTALLED ON ALL METALLIC PIPES AND APPURTENANCES, WATER SERVICES AND FITTINGS ACCORDING TO T-1106.04, T-1106.05, T-1106.06 AND TS 7.22.
13. TRACER WIRE INSTALLATION SHALL BE ACCORDING TO TS 7.40.
14. FRAME HYDROSTATIC PRESSURE TEST AND LEAKAGE TESTING OF THE WATERMAIN SHALL BE ACCORDING TO TS 441.
15. THE NEW WATERMAIN SHALL BE ISOLATED ACCORDING TO T-1104.03-3 OR T-1104.03-4 UNTIL BACTERIOLOGICAL TESTS ARE SATISFACTORILY COMPLETED.
16. PROVISIONS FOR FLUSHING THE WATERMAIN PRIOR TO TESTING AND SO FORTH MUST BE PROVIDED WITH AT LEAST A 50mm OUTLET ON 100mm AND LARGER LINES ACCORDING TO T-1104.03-1. COPPER WATER SERVICES SHALL HAVE FLUSHING POINTS AT THE END, THE SAME SIZE AS THE LINE. ON FIRE LINES, FLUSHING OUTLET TO BE 50mm DIAMETER MINIMUM OR A HYDRANT.
17. DISINFECTION OF THE WATERMAIN SHALL BE ACCORDING TO TS 7.30 AND SHALL INCLUDE ALL NEW WATER SERVICES 100mm DIA. AND LARGER.
18. TORONTO WATER REQUIRES THAT THE NEW DISTRIBUTION SYSTEM REMAIN ISOLATED UNTIL BACTERIOLOGICAL SAMPLE RESULTS ARE RECEIVED. ECS CONTRACT ADMINISTRATOR SHALL NOTIFY TORONTO WATER WHEN SAMPLE RESULTS HAVE PASSED IN ORDER TO PROCEED WITH REMOVAL OF THE BLOW-OFF AND BACK FILLING OF THE ACCESS PIT.
19. AFTER SATISFACTORY DISINFECTION OF THE NEW WATERMAIN IS ACHIEVED, PERMANENT CONNECTIONS TO THE EXISTING WATERMANS WITH A FILTER PIECE SHALL BE MADE ACCORDING TO TS 7.70.
20. CITY IN-SERVICE WATER VALVES, CURB STOPS, FIRE HYDRANTS CAN ONLY BE OPERATED BY TORONTO WATER STAFF.
21. ALL NEW WATERMANS SHALL BE INSULATED WHERE THE COVER IS LESS THAN 1.65m ACCORDING TO T-708.01-4.
22. THE CONTRACTOR SHALL CONNECT OR RECONNECT ALL STRAY CURRENT DRAINAGE CABLES CONNECTED TO THE TTC ELECTRIFIED RAIL SYSTEM ENCOUNTERED DURING WATERMAIN CONSTRUCTION.
23. ALL WET TAPS PERFORMED ON CITY WATERMANS MUST BE PERFORMED BY, OR UNDER THE SUPERVISION OF, A CERTIFIED OPERATOR IN ACCORDANCE WITH ONTARIO REGULATION 128/04.

## WATERMAIN - FILL AREAS:

1. PIPES ARE NOT TO BE LAID ON FILL UNTIL THE FIELD DENSITY TEST REPORTS HAVE BEEN SUBMITTED AND APPROVED BY THE ENGINEER.
2. FILL TO BE PLACED TO A MINIMUM OF 600mm ABOVE THE WATERMAIN GRADES AND TO 3 METERS MINIMUM ON EACH SIDE PRIOR TO WATERMAIN LAYING COMPLETED TO A MINIMUM OF 100 PERCENT PROCTOR DENSITY IN 300mm LIFTS.
3. SOIL DENSITY TESTS SHALL BE TAKEN ALONG CENTRELINE OF THE WATERMAIN AND LINES 1.5 METRES ON EITHER SIDE OF SAME AT A MAXIMUM INTERVAL OF 30 METERS. TESTS TO BE TAKEN AT EACH 600mm LIFT.
4. ALL HYDRANTS, TEES, VALVES, BONDS, PLUGS AND EACH PIPE JOINT ARE TO BE MECHANICALLY RESTRAINED.
5. PIPE JOINT DEFLECTIONS ARE NOT ALLOWED.

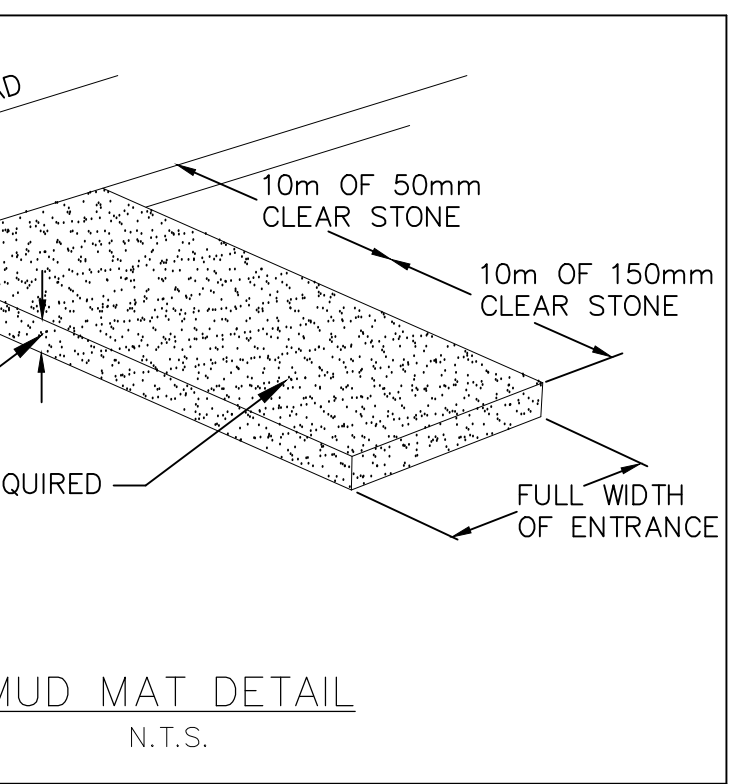
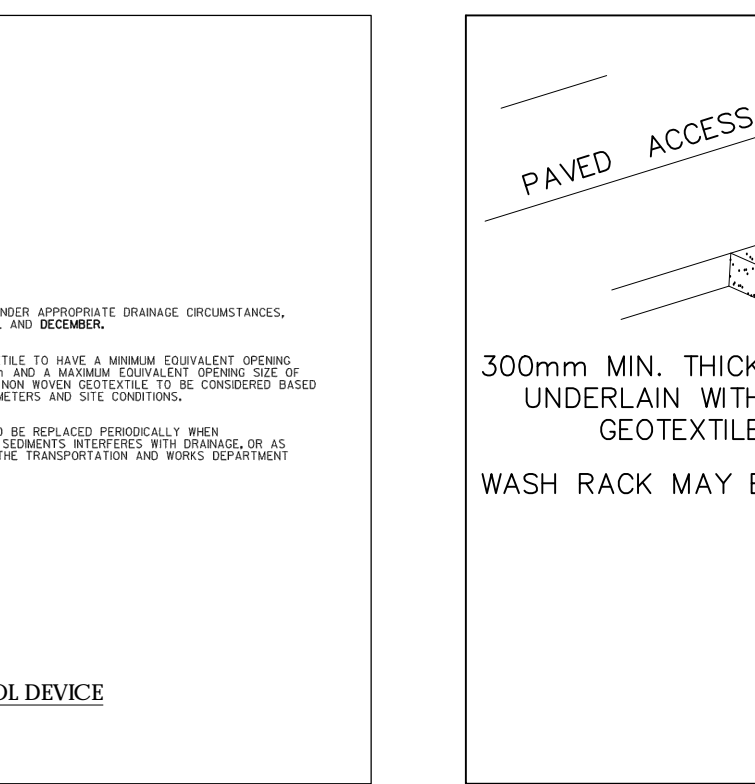
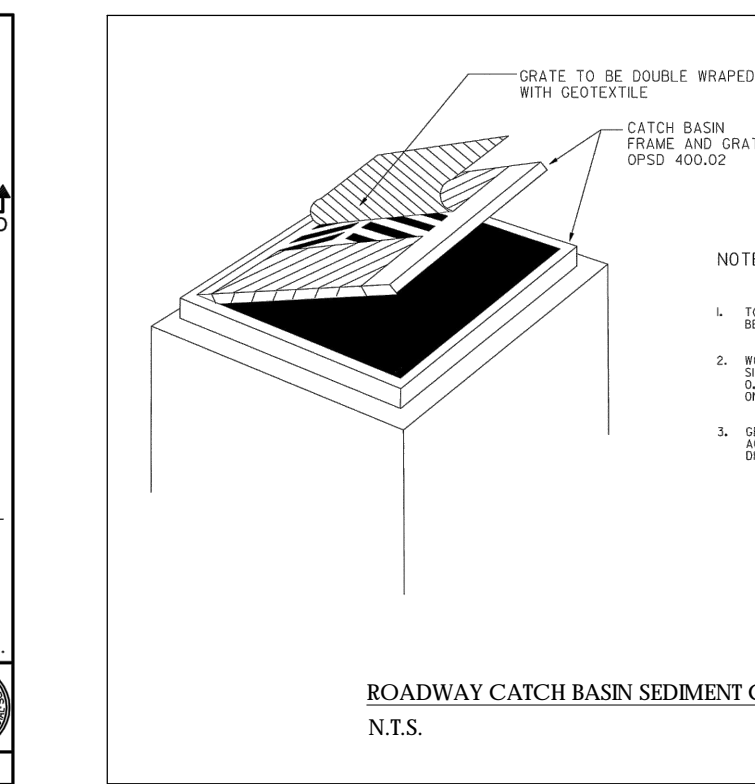
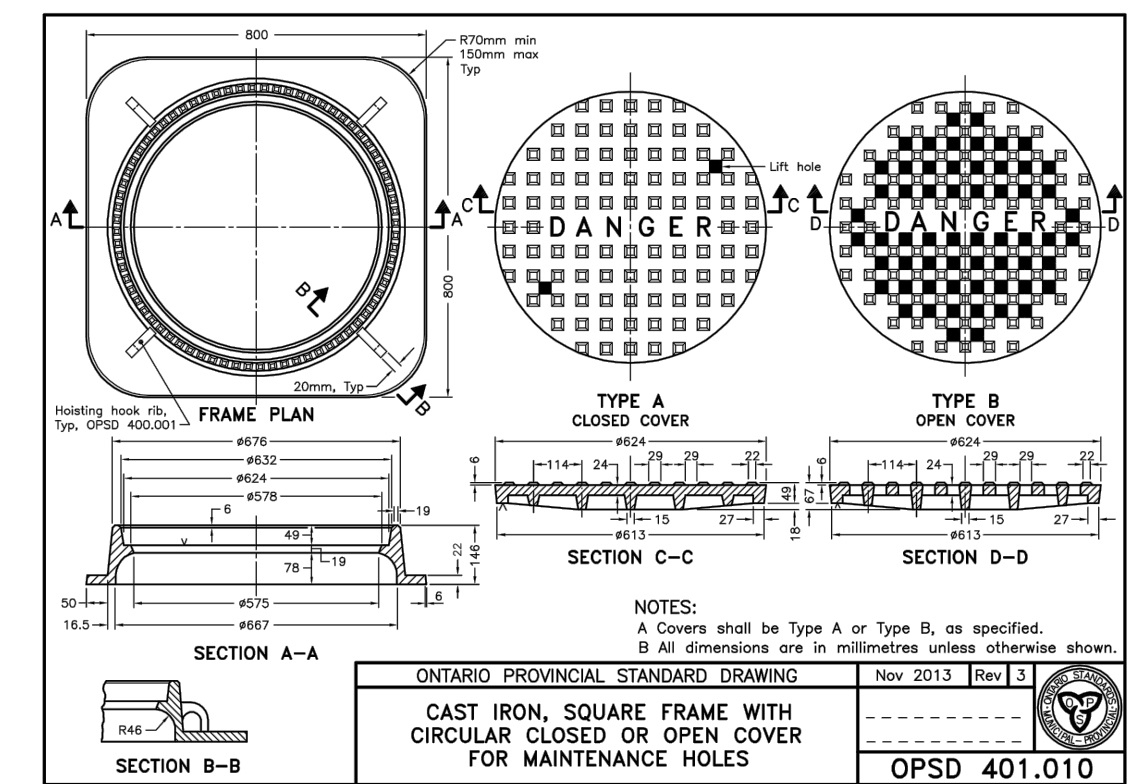
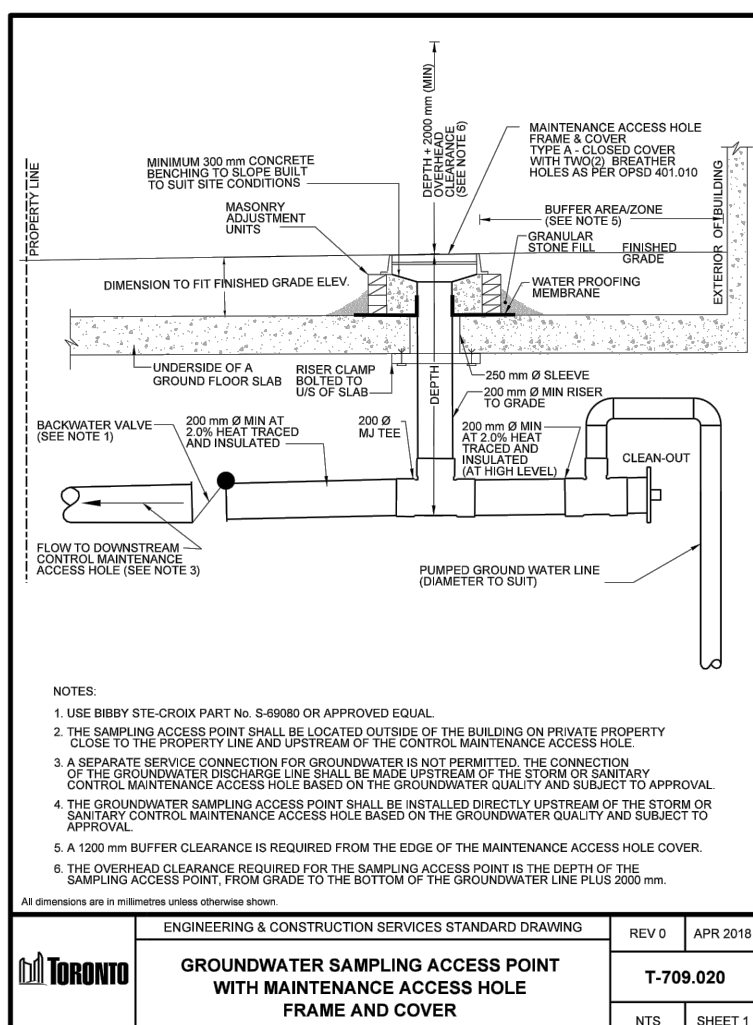
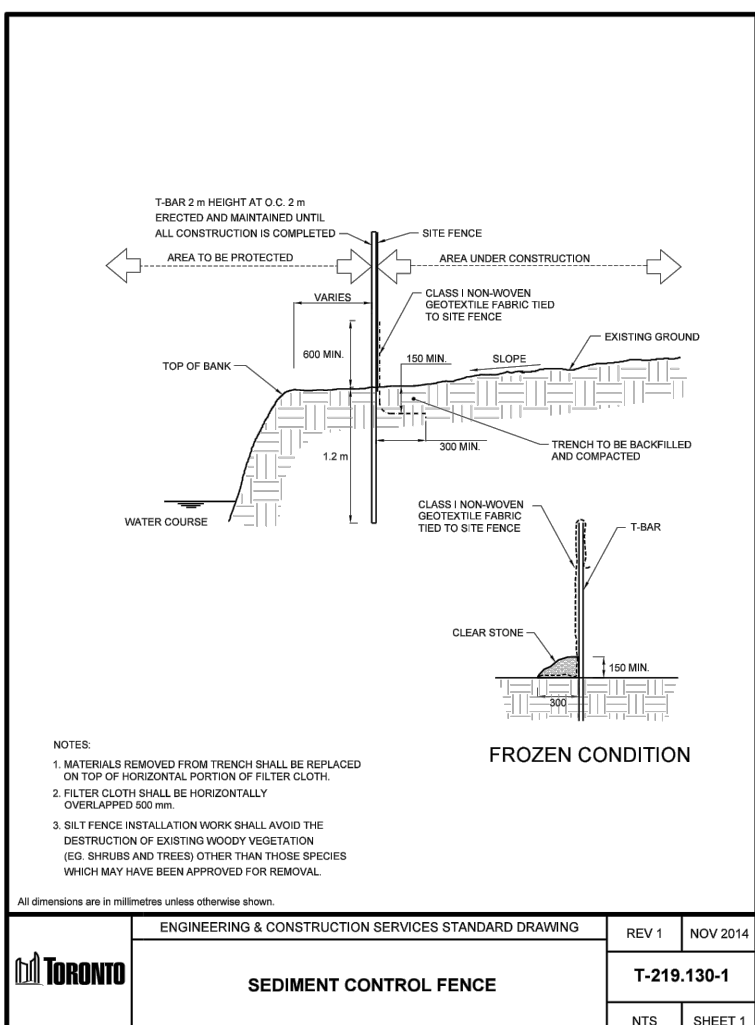
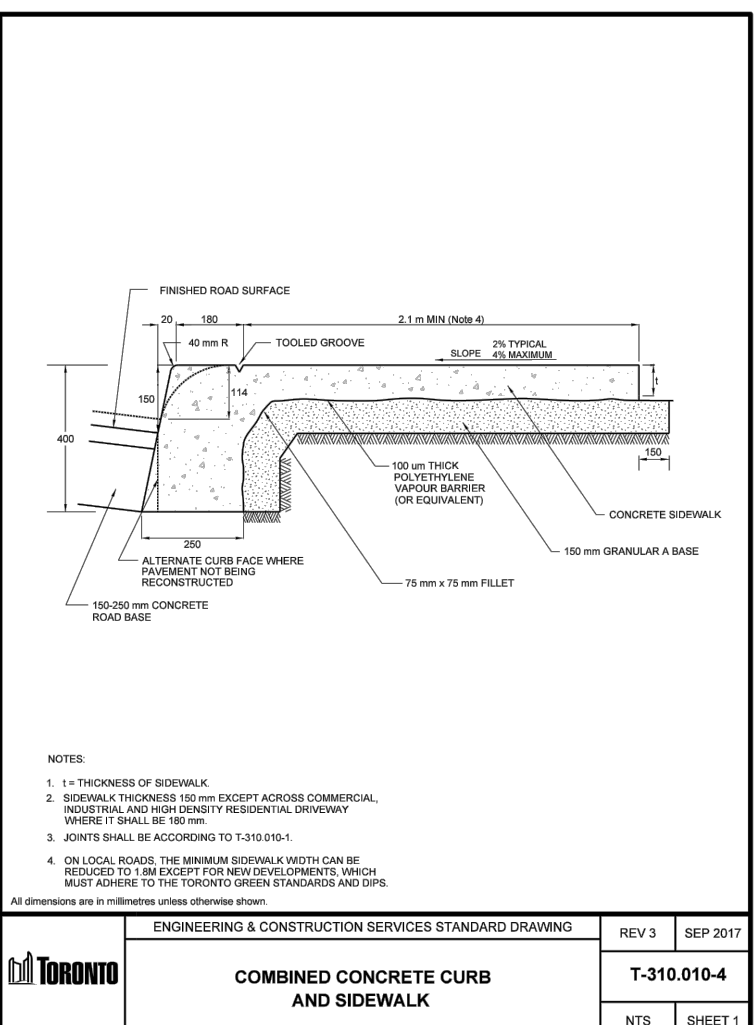
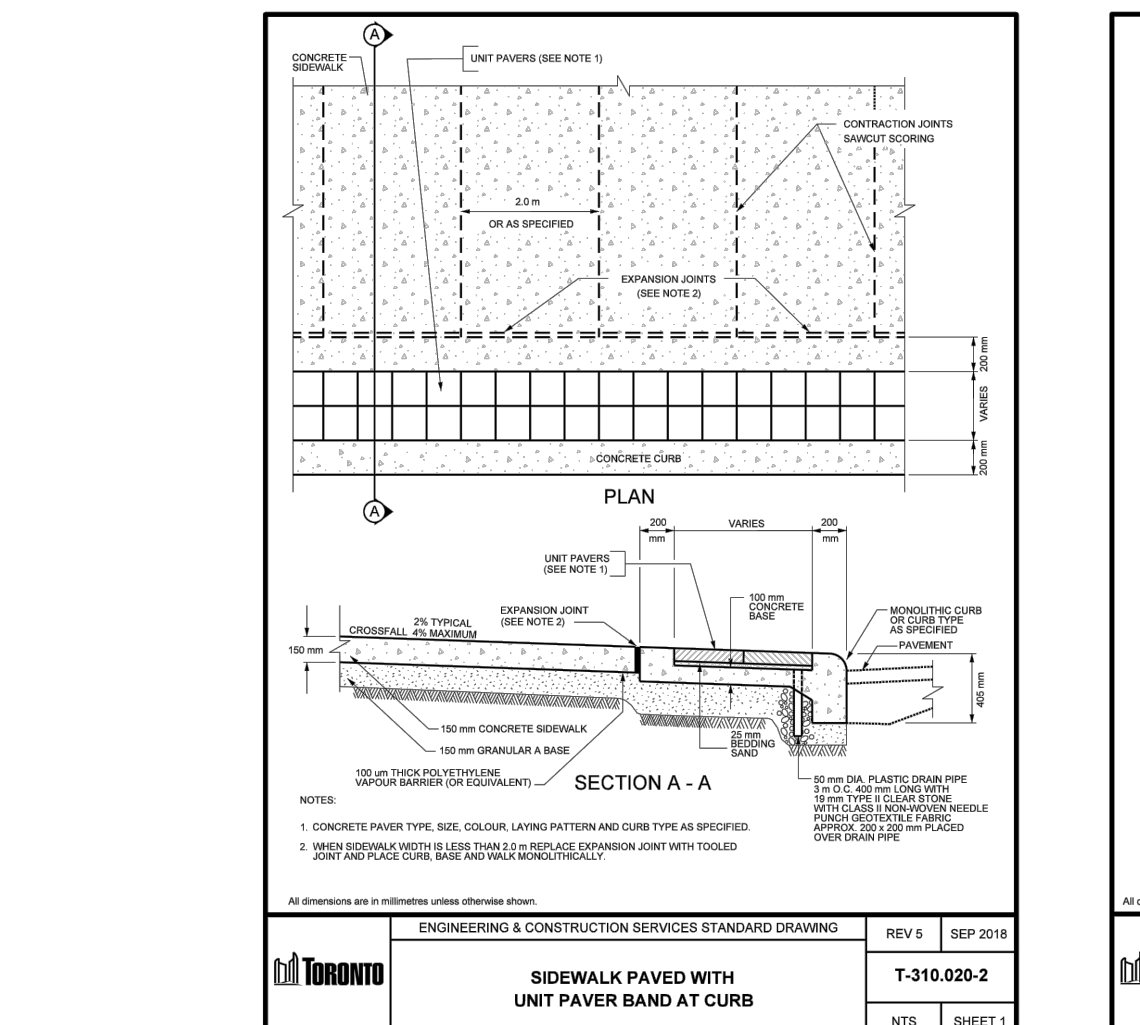
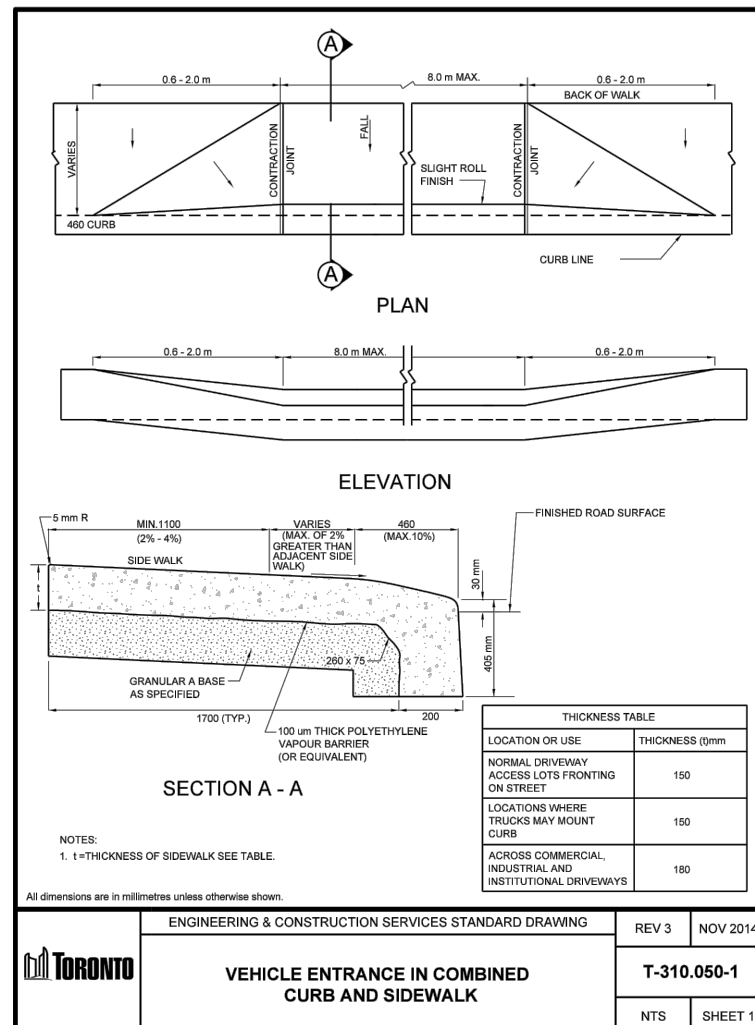
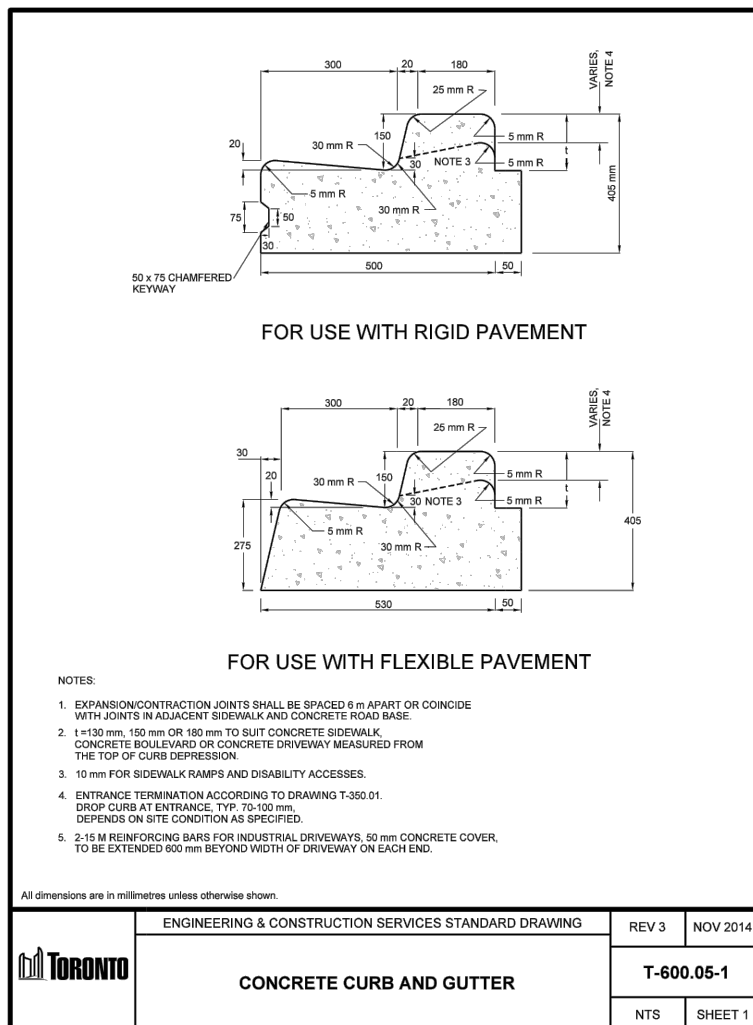
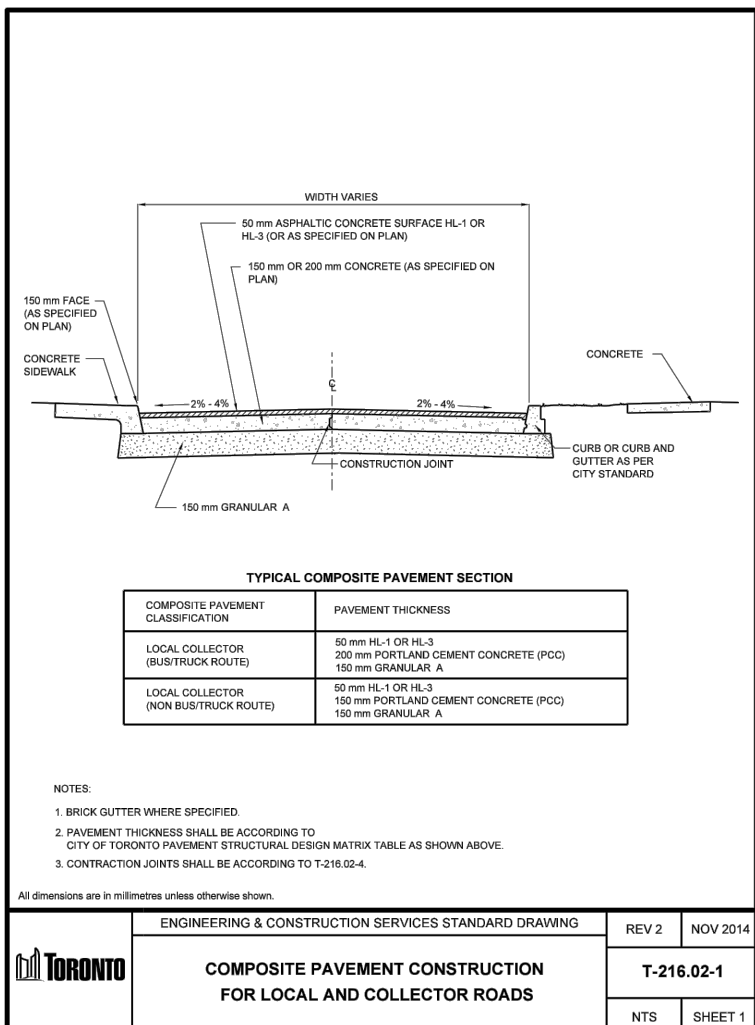
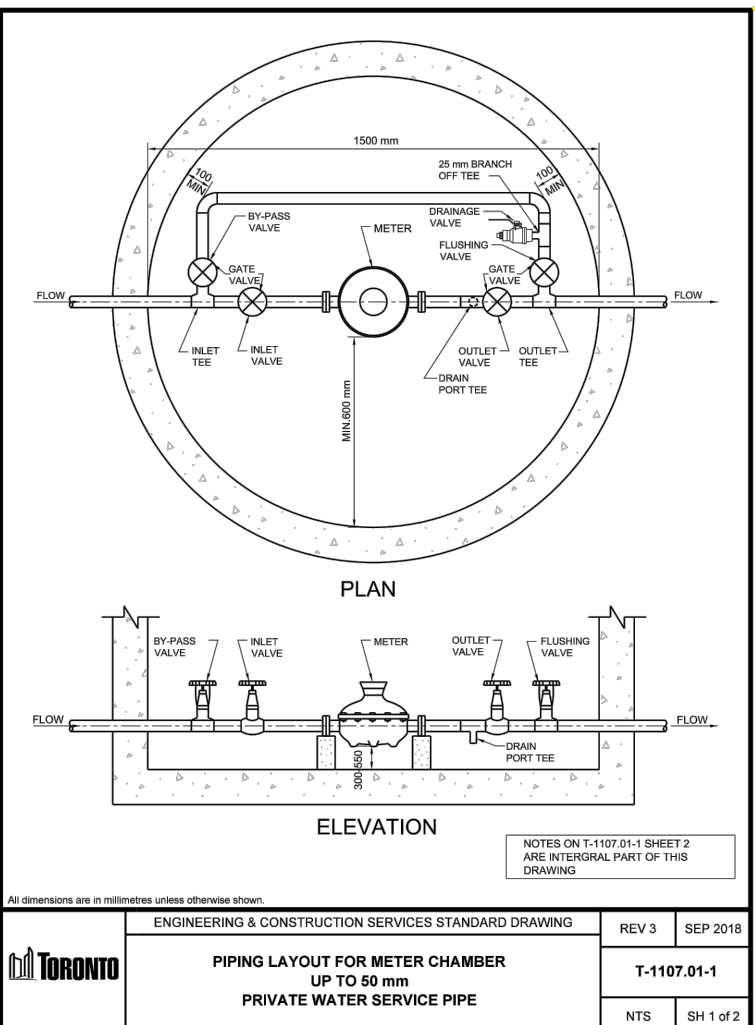
## SANITARY AND STORM SEWERS:

1. ALL EXISTING SEWERS ARE TO BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION, INCLUDING SEWER INVERTS, MATERIAL, AND SIZE. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER.
2. MAINLINE PVC PIPE SHALL BE DR 35.
3. ALL SANITARY SEWER PIPES SMALLER THAN 300mm SHALL BE PVC AND HAVE SMOOTH INTERIOR AND EXTERIOR WALL AND CONFORM TO OPSD 1841 MATERIAL SPECIFICATION. ALL OTHER SIZED SANITARY PIPES SHALL BE COMPOSED OF REINFORCED CONCRETE AND COMPLY WITH OPSD 1850 MATERIAL SPECIFICATION.
4. ALL STORM SEWER GREATER THAN 375mm SHALL BE STEEL REINFORCED CONCRETE AND SHALL CONFORM TO OPSD 1850 MATERIAL SPECIFICATION.
5. SANITARY SERVICE CONNECTIONS SHALL BE SINGLE, 150mm DIAMETER MINIMUM, PVC DR 28 INSTALLED AT 2 PERCENT AND THE COLOUR SHALL BE GREEN, FOR SINGLE RESIDENTIAL DWELLINGS.
6. STORM SERVICE CONNECTION PIPE SHALL BE PVC DR 28, CSA B182.2-06 CERTIFIED, AND ASTM D3034-04A.
7. EMBEDMENT MATERIAL FOR FLEXIBLE PIPE SHALL BE ACCORDING TO OPSD 802.010 AND USING GRANULAR A NATIVE OR GRANULAR A ROM ACCORDING TO TS 1010 AND COMPACTED TO MINIMUM 98% OF MAXIMUM DRY DENSITY.
8. BEDDING FOR RIGID PIPE SHALL BE CLASS B BEDDING MATERIAL ACCORDING TO OPSD 802.031 AND USING GRANULAR A NATIVE OR GRANULAR A ROM BEDDING MATERIAL ACCORDING TO TS 1010 AND COMPACTED TO A MINIMUM OF 98% OF MAXIMUM DRY DENSITY.
9. ULTRA-HIB PIPE IS NOT PERMITTED WITHIN THE MUNICIPAL RIGHT-OF-WAY.
10. MAINTENANCE HOLES SHALL BE ACCORDING TO T-701.010 (1500mm), T-701.011 (1800mm) OR T-701.013 (2400mm). FRAME AND COVER SHALL BE ACCORDING TO OPSD 401.010 TYPE A CLOSED (SANITARY AND STORM).
11. MAINTENANCE HOLE CHAMBER OPENING MUST BE LOCATED ON THE UPSTREAM SIDE OF THE MAINTENANCE HOLE. BENCHING DETAILS SHALL BE ACCORDING TO T-701.021 OR AS SHOWN ON THE DRAWINGS.
12. DROP STRUCTURES SHALL BE ACCORDING TO T-1003.01 (EXTERNAL) AND T-1003.01-2 (INTERNAL).
13. SANITARY MAINTENANCE HOLES SHALL HAVE WATER-TIGHT FRAMES AND COVERS IN FLOODING AREA ACCORDING TO OPSD 401.030.
14. REINFORCED CONCRETE PIPE SHALL BE MINIMUM 45-D, HEIGHT OF FILL TO BE VERIFIED USING OPSD TABLE 807.010 AND 807.030.
15. NON-REINFORCED CONCRETE PIPE 150mm TO 250mm SHALL BE CLASS 3. HEIGHT OF FILL TO BE VERIFIED USING OPSD TABLE 807.040.
16. SINGLE CATCHBASINS SHALL BE ACCORDING TO T-705.010 COMPLETE WITH GOSS TRAP, WHERE SPECIFIED. FRAME AND COVER SHALL BE ACCORDING TO OPSD 400.070.
17. DOUBLE CATCHBASINS SHALL BE ACCORDING TO T-705.020 COMPLETED WITH GOSS TRAP, WHERE SPECIFIED.
18. CATCHBASIN LEADS TO SEWERS PVC DR 35 FOR SINGLE CATCHBASIN AND 300mm PVC DR 35 FOR DOUBLE CATCHBASINS.
19. CONSTRUCTION DETAIL FOR SEWER PIPE AT CATCHBASINS AND MAINTENANCE HOLES SHALL BE ACCORDING TO T-705.020.
20. STORM SERVICE CONNECTION PIPE SHALL BE PVC DR 28, CSA B182.2-06 CERTIFIED, AND ASTM D3034-04A.
21. FOR SERVICE CONNECTIONS TO EXISTING SEWERS, THE SEWER FLOW MUST BE MAINTAINED AT ALL TIMES. SEWER CONNECTIONS MUST BE CONNECTED TO THE MAIN SEWER BY MEANS OF A SADDLE, WHERE APPLICABLE. THE CONNECTION WILL TERMINATE AT THE PROPERTY LINE. THE PROPERTY LINE TO BE PROPERLY FLAGGED. THE OPENING FOR THE SADDLE ON THE MAIN SEWER MUST BE MADE BY A CORE DRILL ONLY. THE DIAMETER OF THE CORE MUST NOT EXCEED THE OUTSIDE DIAMETER OF THE SADDLE BRANCH INSERT BY 25mm. WHERE CORE DRILLING IS NOT POSSIBLE, THE CONTRACTOR MUST CONNECT TO THE MAIN SEWER BY APPROPRIATE MEANS, APPROVED BY THE CITY. SEWER CONNECTIONS MUST BE LAID ON SOLID GROUND AND MUST HAVE A MINIMUM OF 75mm OF CLASS B BEDDING.



## GENERAL NOTES:

1. THE OWNER IS REQUIRED TO INSTALL AND MAINTAIN A PREMISE ISOLATION DEVICE FOR ALL APPLICABLE WATER SERVICES IN ACCORDANCE WITH TORONTO MUNICIPAL CODE, CHAPTER 881 WATER SUPPLY, THE BUILDING CODE, AND CSA B44.5338 STANDARDS.
2. THE BUILDING STORM AND SANITARY SYSTEMS SHALL BE DESIGNED TO BE ABLE TO OPERATE UNDER MUNICIPAL SEWER SURCHARGE CONDITIONS.
3. THE METHOD OF INSTALLATION FOR THE PROPOSED SERVICE CONNECTIONS WILL BE AT THE DISCRETION OF TORONTO WATER.
4. EXISTING SERVICE CONNECTIONS NO LONGER IN USE SHALL BE DISCONNECTED BY TORONTO WATER AT THE OWNER'S COST.
5. THE LOCATION OF THE WATER METER SHALL BE TO TORONTO WATER'S SATISFACTION.
6. THE LIMITS OF CONSTRUCTION WITH THE CITY'S RIGHT-OF-WAY ARE AT THE DISCRETION OF THE CITY INSPECTOR.
7. PRIOR TO COMMENCING ANY WORK WITHIN THE MUNICIPAL RIGHT-OF-WAY, THE CONTRACTOR, DEVELOPER, OR CONSULTANT WILL OBTAIN ALL NECESSARY ROAD OCCUPANCY PERMITS FROM THE CITY'S RIGHT-OF-WAY MANAGEMENT UNIT.
8. PER THE INFORMATION PROVIDED TO STAFF BY THE APPLICANT, STAFF HAVE REVIEWED THE APPLICATION ON THE UNDERSTANDING IT WILL COMPREHEND A SINGLE PARCEL OF LAND. UNDER ONE OWNER. UPON COMPLETION, IF ANY PARTY INCLUDING THE APPLICANT OR ANY SUBSEQUENT OWNER, SUBMITS AN APPLICATION FOR CONDOMINIUM APPROVAL OR ANY OTHER FORM OF LAND DIVISION FOR THIS DEVELOPMENT NOT IN ACCORDANCE WITH THIS ASSUMPTION, DIFFERENT SERVICING CONNECTIONS, INCLUDING ALL ASSOCIATED SECONDARY MANAGEMENT FACILITIES AND ANY NECESSARY REDESIGN PLANS AND STUDIES, MAY BE REQUIRED BY THE CITY AT THE SOLE COST TO THE CONDOMINIUM APPLICANT.



1637-1645 BATHURST STREET

## GENERAL NOTES

DESIGN	D.P.	DRAWN	J.W.	CHECKED	B.H.	CONTRACT No.
						20284
SCALE:	N.T.S.					
DATE:	DECEMBER 05, 2019					
DRAWING NUMBER	C-06					

Engineering & Construction Services

ACCEPTED TO BE IN ACCORDANCE WITH THE CITY OF TORONTO STANDARDS. THE SIGNATURE OF THE ENGINEER IS NOT TO BE CONSIDERED AS VERIFICATION OF ENGINEERING CONTENT.

MANAGER, DEVELOPMENT ENGINEERING

DATE: 16/12/2019

No. 01 DATE 16/12/2019 DESCRIPTION ISSUED FOR ZBA & SPA SUBMISSION

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