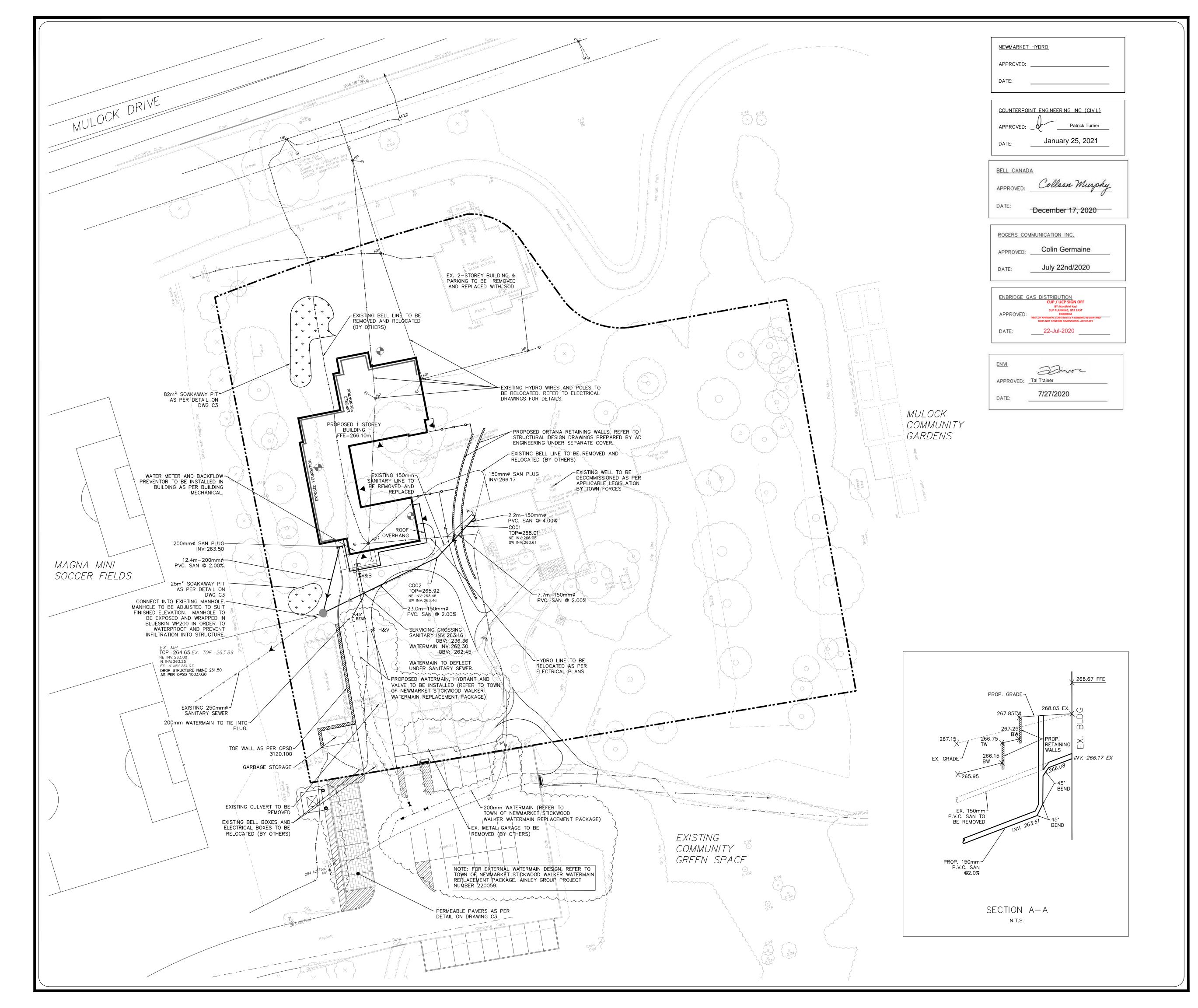


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NOTES:		
1. WATER METER AND APPURTENANCES T SERVICES. CONTACT TOWN OF NEWMAR FOR INSTALLATION DETAILS AND REQU	RET MANAGER WATE IREMENTS. WATER ME	ER/WASTEWATER SERVICES ETER TO BE PURCHASED
FROM TOWN OF NEWMARKET PUBLIC W BUILDING.	ORKS SERVICES AND	D LOCATED WITHIN THE
2. WATERMAIN COMMISSIONING PROCEDURI SERVICES. CONTACT TOWN OF NEWMAR PRIOR TO TURNING WATER ON. A TEMP	RET MANAGER WATE PORARY BACKFLOW F	ER/WASTEWATER SERVICES PREVENTOR TO BE
INSTALLED AS PER TOWN STANDARDS, COMMISSIONED.	UNTIL A PERMANEN	IT CONNECTION IS
3. EXISTING WELLS TO BE DECOMMISSIONE COPY OF THE WELL RECORD SHALL BE 4. ENGINEERING SERVICES TO BE PRESENT	PROVIDED TO THE	TOWN.
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GENERAL NOTES

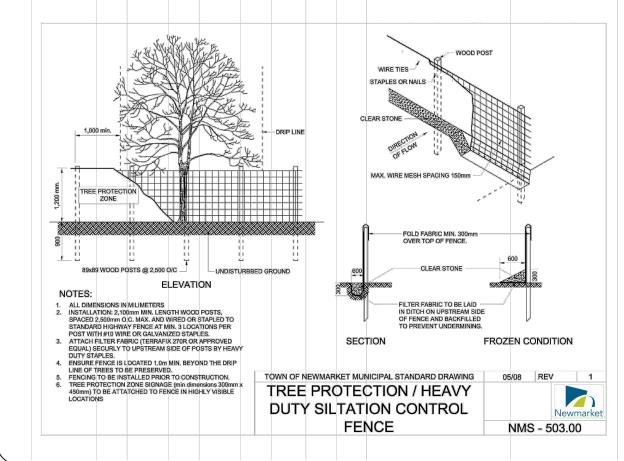
- ALL DIMENSIONS ARE IN METRES (m) AND ALL PIPE SIZES ARE IN MILLIMETRES (mm), UNLESS OTHERWISE SPECIFIED.
- THE NOTES ON SHEET APPLY TO ALL WORKS UNDER THIS CONTRACT UNLESS OTHERWISE NOTED ON THE PLAN AND PROFILE DRAWINGS SPECIFIC DETAIL DRAWINGS.
- THE STANDARD DRAWINGS OF THE TOWN, ONTARIO PROVINCIAL STANDARDS AND SPECIFICATIONS (OPSS), THE ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) AND YORK
- REGION STANDARDS CONSTITUTE PART OF THE PLANS OF THIS PROJECT. ORDER OF PRECEDENCE OF STANDARD DRAWINGS IS FIRSTLY TOWN OF NEWMARKET STANDARD DRAWINGS, AND SECONDLY ONTARIO PROVINCIAL STANDARD DRAWINGS.
- THE STANDARD DRAWINGS INCLUDED WITH THESE PLANS PLANS ARE PROVIDED FOR CONVENIENCE ONLY AND ARE NOT TO BE CONSTRUED TO BE A COMPLETE SET FOR THE PURPOSE OF THE CONTRACT OR PROJECT.
- ALL DIMENSIONS AND ELEVATIONS SHALL BE CHECKED AND VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION AND ANY DISCREPANCIES SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER.
- ALL SITE CONTROL AND EROSION PROTECTION DEVICES ARE TO BE IN PLACE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL CONSTRUCTION IS COMPLETE AND THE GRASS HAS ESTABLISHED GROWTH, SUBJECT TO APPROVAL BY THE TOWN'S ENGINEER.
- NATIVE MATERIAL, SUITABLE FOR BACKFILL, SHALL BE COMPACTED TO 95% STANDARD PROCTOR MAXIMUM DRY DENSITY. FOR BACKFILLING WITHIN THE ROADWAY, NATIVE MATERIAL SHALL BE BACKFILLED TO 95% STANDARD PROCTOR MAXIMUM DRY DENSITY OR AS PER GEOTECHNICAL ENGINEER RECOMMENDATIONS.
- GRANULAR MATERIAL USED FOR BACKFILL, SHALL BE PLACED IN LAYERS 150 mm IN DEPTH MAXIMUM AND COMPACTED TO 100% STANDARD PROCTOR MAXIMUM DRY DENSITY OR AS PER GEOTECHNICAL ENGINEER RECOMMENDATIONS.
- MATERIAL SPECIFICATION FOR ALL FRAMES, GRATES, COVERS AND GRATINGS SHALL BE AS PER OPSS 1850. FINISH ON ALL SURFACES SHALL BE PAINTED.
- TOPSOIL IN FILL AREA TO BE STRIPPED. ALL FILL MATERIAL SHALL BE APPROVED FOR SUITABILITY BY THE GEOTECHNICAL ENGINEER PRIOR TO ANY FILLING OR REUSE OF EXCAVATED MATERIAL. APPROVED FILL MATERIAL SHALL BE COMPACTED TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER.
- ALL UNSUITABLE OR SURPLUS MATERIAL OBTAINED FROM EXCAVATIONS TO BE DISPOSED OF OFF-SITE AT A LOCATION SELECTED BY THE CONTRACTOR THAT MEETS ALL APPLICABLE ENVIRONMENTAL REGULATIONS AND GUIDELINES.

STORM SEWERS

- . ALL STORM SEWER MAINS OVER 450 mm DIAMETER SHALL BE CONSTRUCTED WITH REINFORCED CONCRETE PIPE.
- . CATCHBASIN LEADS SHALL BE CONSTRUCTED WITH CONCRETE, PVC DR 35, OR HDPE BOSS POLY-TITE. RUBBER PVC PIPE WILL NOT BE PERMITTED.
- CONCRETE PIPE SHALL CONFORM TO THE REQUIREMENTS OF CSA SPECIFICATION A257-M 1982 FOR THE CLASSES SHOWN BELOW: (A) NON-REINFORCED CONCRETE PIPE, CSA STANDARD A257.1 CLASS 1, 2 AND 3 (B) REINFORCED CONCRETE PIPE, CSA STANDARD A257.2 STRENGTH CLASS 50-D, 65-D, 100-D AND 140-D.
- 4. PVC PIPE SHALL CONFORM TO CSA SPECIFICATION B182.1 OR B182.2 OR LATEST REVISION THEREOF. RIBBED PVC PIPE WILL NOT BE PERMITTED
- 5. HDPE PLASTIC PIPE SHALL CONFORM TO THE REQUIREMENTS OF CSA SPECIFICATION B182.6 AND SHALL HAVE A SMOOTH INSIDE WALL AND CORRUGATED OUTSIDE WALL SUCH AS HDPE BOSS POLY—TITE WITH MINIMUM STIFFNESS OF 300 kPa.
- . SEWERS SHALL BE CONSTRUCTED WITH BEDDING AS PER OPSD 802.010, UNLESS APPROVED OTHERWISE BY THE TOWN.
- MANHOLE TOPS ARE TO BE SET TO BASE COURSE ASPHALT GRADE AND THEN ADJUSTED TO FINAL GRADE. FRAME AND COVER TO BE PER OPSD 401.010, TYPE 'B'. ADJUSTMENTS SHALL BE PER NMSD 210.00.
- . SINGLE CATCHBASIN LEADS TO BE 250 mm DIAMETER MINIMUM. DOUBLE CATCHBASIN LEADS TO BE 300 mm DIAMETER MINIMUM.
- 9. CATCHBASIN GRATES ARE TO BE SET TO BASE COURSE ASPHALT GRADE AND THEN ADJUSTED TO FINAL GRADE. ADJUSTMENTS SHALL BE AS PER NMSD-211.00. WHERE CATCHBASINS ARE CONNECTED DIRECTLY TO SEWERS, PRE-MANUFACTURED TEES SHALL BE USED.
- 10. SAFETY CHAINS ARE TO BE INSTALLED ON THE DOWNSTREAM SIDE OF ALL MANHOLES ON PIPES 1200 mm AND LARGER AS PER TOWN OF NEWMARKET STANDARD DRAWING NO. NMSD-403.00.
- . MANHOLE COVERS WITHIN SURFACE PONDING AREAS ARE TO BE BOLTED AND WATER TIGHT PER OPSD 401.030.

SANITARY SEWERS

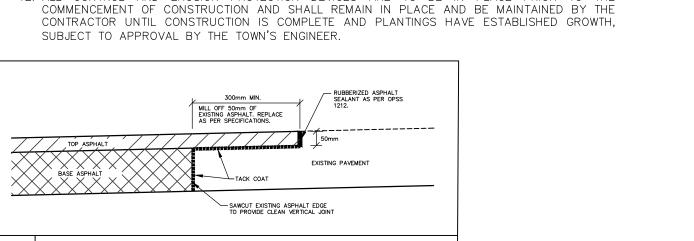
- FLEXIBLE PIPE SHALL BE PVC DR35 OR APPROVED EQUIVALENT, WITH RUBBER GASKET TYPE JOINTS AND SHALL CONFORM TO CSA B182.1 AND B182.2. RIGID PIPE SHALL BE REINFORCED CONCRETE CONFORMING TO CSA A257.2. PIPE JOINTS TO BE RUBBER GASKET AS PER CSA STANDARD A257.3.
- MAXIMUM PIPE DEFLECTION FROM COMBINED LIVE AND DEAD LOADING SHALL NOT EXCEED ANY CSA, OPS OR MANUFACTURER'S RECOMMENDED SPECIFICATIONS
- FLEXIBLE SEWERS SHALL BE CONSTRUCTED WITH BEDDING AND BACKFILL AS PER OPSD 802.010 (GRANULAR "A" FOR BEDDING AND COVER MATERIAL). RIGID SEWERS SHALL BE CONSTRUCTED WITH CLASS "B" BEDDING (GRANULAR "A" MATERIAL) AS PER OPSD 802.030, 802.031 AN802.032 AS APPLICABLE. MATERIAL MAY BE REPLACED ONLY BY APPROVAL OF THE ENGINEER.
- PRECAST MAINTENANCE HOLES SHALL BE IN ACCORDANCE WITH OPSD 701.010 (1200 mm DIAMETER). PRECAST MAINTENANCE HOLES GREATER THAN 5 m DEEP SHALL BE CONSTRUCTED WITH A SAFETY PLATFORM IN ACCORDANCE WITH OPSD 404.020. FRAME AND COVER SHALL BE IN ACCORDANCE WITH OPSD 401.010, TYPE "A".
- MAINTENANCE HOLE TOPS (FRAMES) ARE TO BE SET TO BASE COURSE ASPHALT GRADE, AND THEN ADJUSTED TO FINAL GRADE WHEN TOP LIFT OF ASPHALT IS PLACED. GRADE AND CROSSFALL ADJUSTMENT SHALL BE MADE USING PRODUCTS SPECIFICALLY MANUFACTURED FOR THAT PURPOSE. ADJUSTMENTS SHALL BE AS PER NMSD-210.00
- . ALL CONNECTIONS TO THE SANITARY MAIN SHALL BE MADE WITH PRE-MANUFACTURED APPROVED TEES.
- MAINTENANCE HOLE BENCHING SHALL CONFORM WITH OPSD 701.021 WITH BENCHING TO THE OBVERT.
- 8. DROP STRUCTURES SHALL CONFORM WITH OPSD 1003.020.
- 9. ALL MAINTENANCE HOLES CONSTRUCTED IN VICINITY OF LOW POINTS IN ROADS SHALL HAVE WATERTIGHT LIDS. 10. PIPE TO BE MINIMUM 125 mm DIAMETER PVC SDR 28. RUBBER GASKET TYPE JOINTS, BEING
- GREEN IN COLOUR AND SHALL CONFORM TO CSA B182.1 or B182.2 1. MINIMUM PIPE SLOPE TO BE 2%, MAXIMUM 8% (SEE OPSD 1006.020).
- 12. MANHOLE COVERS WITHIN SURFACE PONDING AREAS ARE TO BE BOLTED AND WATER TIGHT PER OPSD 401.030.



- WATERMAINS 1. EXISTING WATER SERVICES TO BE DISCONNECTED AND PLUGGED AT MAIN. LOCATIONS TO BE CONFIRMED ON SITE.
- 2. WATERMAIN MATERIAL TO BE POLYVINYL CHLORIDE (PVC) C-900 CLASS 150 (DR 18) OR HIGH DENSITY POLYETHYLENE PER CSA 137.1 WHERE INDICATED. WATERMAIN SHALL INCLUDE #12 TRACER WIRE
- 3. CAST IRON MECHANICAL JOINT FITTINGS MEETING AWWA SPECIFICATIONS C-907 AND CSA B138.2 SHALL BE USED ON PVC WATERMAIN 150 mm TO 300 mm DIAMETER.
- 4. A MINIMUM OF 0.5 m VERTICAL CLEARANCE BETWEEN THE WATERMAIN AND ALL UTILITIES MUST
- BE KEPT, WHILE MAINTAINING A MINIMUM DEPTH OF COVER.
- 5. WATERMAIN SHALL BE INSTALLED WITH A MINIMUM COVER OF 1.8 m.
- 6. PVC WATERMAIN BEDDING SHALL CONSIST OF CLEAR SAND, 150 mm BELOW AND 300 mm
- ABOVE THE (REFER TO OPSD 802.010).
- 7. MECHANICAL JOINT RESTRAINTS ARE TO BE INSTALLED ON BELL AND SPIGOT JOINTS FOR ALL WATERMAINS CONSTRUCTED IN FILL MATERIAL AND AT ALL TEES, HORIZONTAL BENDS, VERTICAL BENDS, HYDRANTS, END OF MAINS AND VALVES. CONCRETE THRUST BLOCKS ARE NOT PERMITTED UNLESS EXPRESSLY APPROVED BY THE TOWN.
- 8. FIRE HYDRANTS TO BE MUELLER 'CENTURY', AVK, CLOW MCAVITY OR APPROVED EQUIVALENT
- COMPRESSION TYPE COMPLETE THREE PORT HYDRANTS WITH 100 mm, 1/4 TURN STORZ NOZZLE FACING THE STREET. THE SIDE PORTS SHALL BE 65 mm DIAMETER THREADED. HYDRANT TEES TO BE ANCHOR STYLE. ALL HYDRANTS TO BE EQUIPPED WITH ANTI-TAMPERING DEVICES.
- 9. HYDRANTS ARE TO BE PAINTED FIRE ENGINE RED. THE STORZ CAP IS TO BE BLACK. STEAMER OR PUMPER PORT THREADED CONNECTIONS ARE TO BE PAINTED RED (SAME AS BARREL).
- 10. REFLECTIVE RINGS COLOUR CODED TO THE HYDRANT FLOW CLASSIFICATION WILL BE INSTALLED ON THE 65 mm PORTS BY THE TOWN.
- 11. HYDRANT FLANGE ELEVATIONS SHALL BE SET AT A GRADE OF 50 mm TO 150 mm ABOVE THE FINISHED GROUND ELEVATION.
- 12. A MINIMUM HORIZONTAL SEPARATION OF 2.5 m SHALL BE MAINTAINED BETWEEN THE WATERMAIN AND ANY SEWER.
- 13. UNLESS SPECIFIED OR APPROVED BY THE TOWN, ALL VALVES SHALL BE MUELLER RESILIENT WEDGE GATE VALVES OR APPROVED EQUIVALENT. VALVES SHALL HAVE A NON-RISING STEM AND A 50 mm SQUARE OPERATING NUT, OPENING COUNTER-CLOCKWISE.
- 14. ALL VALVES 300 mm IN DIAMETER AND LARGER SHALL BE INSTALLED INSIDE VALVE CHAMBERS. THESE VALVES SHALL HAVE FLANGED ENDS. A FLANGED TO PLAIN END SPACER AND A VICTAULIC COUPLER SHALL BE INSTALLED INSIDE THE CHAMBER TO PERMIT REMOVAL OF THE VALVE IF NECESSARY.
- 15. VALVES IN EXCESS OF 2.4 m IN DEPTH SHALL REQUIRE A VALVE STEM EXTENSION. 16. THE CONTRACTOR SHALL INFORM THE TOWN 48 HOURS IN ADVANCE PRIOR TO COMMENCING
- WORK ON ANY PART OF THE WATER SYSTEM.
- 17. ALL MECHANICAL FITTINGS SHALL HAVE ZINC ANODES AS PER TOWN STANDARDS.

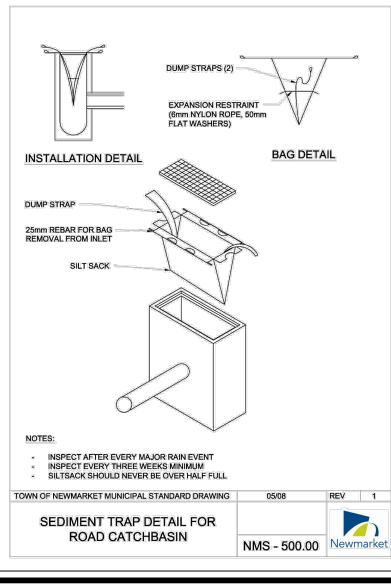
EROSION AND SEDIMENT CONTROL

- 1. SEDIMENT FENCE TO BE INSTALL AS REQUIRED AS PER NMS 502.00 TO BE INSTALLED PRIOR TO STRIPPING TOPSOIL AND TO BE MAINTAINED UNTIL ALL CONSTRUCTION IS COMPLETE.
- 2. TEMPORARY CONSTRUCTION ACCESS MUD MAT SHALL BE PLACED IN THE LOCATION SHOWN ON THIS DRAWING. THE MUD MAT SHALL BE A MINIMUM OF 6.0 m IN WIDTH, A MINIMUM 30 m IN LENGTH AND CONSTRUCTED OF A MINIMUM OF 0.50 m DEPTH OF 50mm DIAMETER CLEAR STONE.
- 3. INSTALL SEDIMENT TRAP PER NMS 500.00 IN ALL NEW AND EXISTING CATCH BASINS WHICH MAY RECEIVE SEDIMENT LADEN STORM RUN-OFF AND MAINTAIN UNTIL SURFACES HAVE BEEN STABILIZED. SEDIMENT TRAPS TO BE PLACED IN ALL PROPOSED CATCHBASINS IMMEDIATELY FOLLOWING INSTALLATION.
- 4. ADDITIONAL EROSION AND SEDIMENT CONTROL MATERIALS (I.E. CONSTRUCTION FENCE, SILT FENCE, STRAW BALES, CLEAR STONE, ETC.) ARE TO BE KEPT ON SITE FOR EMERGENCIES AND REPAIRS
- EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE CONTINUOUSLY EVALUATED AND REPLACED/MAINTAINED AS REQUIRED TO ENSURE THEIR EFFECTIVENESS. THE ESC MEASURES ARE TO BE INSPECTED AFTER ANY RAIN OR SNOW MELT EVENT, AND ANY MAINTENANCE/REPAIR/REPLACEMENT REQUIRED IS TO BE DONE WITHIN 48 HOURS.
- 6. THE CONTRACTOR WILL UNDERTAKE MEASURES TO CONTROL DUST AND TO PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO THE PUBLIC RIGHT OF WAY DURING CONSTRUCTION.
- 7. SEDIMENT BAGS SHALL BE USED AT THE END OF DISCHARGE HOSES WHERE DISCHARGE FROM DEWATERING AREA HAS A SEDIMENT LOAD.
- 8. STABILIZATION IS REQUIRED OF ALL AREAS WHICH WILL REMAIN DISTURBED FOR MORE THAN 30 DAYS.
- 9. THE STANDARD DRAWINGS OF THE TOWN, PROVINCIAL STANDARDS AND SPECIFICATIONS (OPSS) AND THE ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) CONSTITUTE PART OF THE PLANS OF THIS PROJECT
- DRAWINGS, AND SECONDLY ONTARIO PROVINCIAL STANDARD DRAWINGS.
- 11. ALL DIMENSIONS AND ELEVATIONS SHALL BE CHECKED AND VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION AND ANY DISCREPANCIES SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER.
- 12. ALL CONTROL AND EROSION PROTECTION DEVICES ARE TO BE IN PLACE PRIOR TO THE SUBJECT TO APPROVAL BY THE TOWN'S ENGINEER.

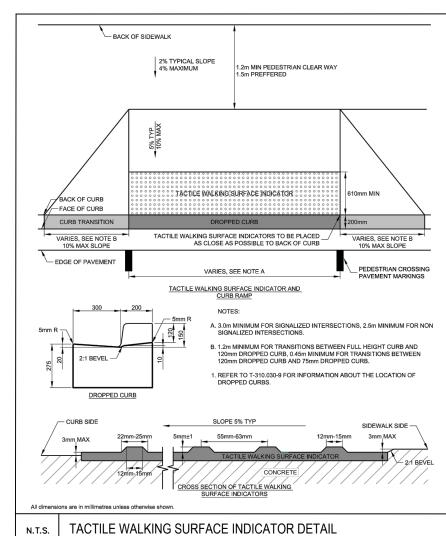


N.T.S.





10. ORDER OF PRECEDENCE OF STANDARD DRAWINGS IS FIRSTLY TOWN OF NEWMARKET STANDARD



<u>roads</u>

SURFACE -

FLOW TO

1. THE ROAD PAVEMENT FOR THE PARKING LOT SHALL CONSIST OF THE FOLLOWING IN CONFORMANCE WITH THE GEOTECHNICAL ENGINEER. COMPACTION REQUIREMENTS AS PER GEOTECHNICAL ENGINEER.

-40 mm HL3 OR SP 12.5 SURFACE COURSE ASPHALT

-150 mm OPSS GRANULAR 'A' OR 20mm CRUSHER RUN LIMESTONE (BASE COURSE) -225 mm OPSS GRANULAR 'B' OR 50mm CRUSHER RUN LIMESTONE (SUBBASE COURSE)

HEAVY DUTY (FOR FIRE ROUT

-150 mm OPSS GRANULAR 'A' OR 20mm CRUSHER RUN LIMESTONE (BASE COURSE)

2. THE PAVEMENT FOR THE ASPHALT PEDESTRIAN PATHWAYS SHALL CONSIST OF THE FOLLOWING. COMPACTION REQUIREMENTS AS PER GEOTECHNICAL ENGINEER. -40 mm SP 9.5 SURFACE COURSE ASPHALT

-60 mm SP 19.0 BASE COURSE ASPHALT -150 mm OPSS GRANULAR 'B' (BASE COURSE)

-200 mm 50mm CRUSHER RUN LIMESTONE (SUBBASE COURSE)

3. WALKWAYS TO BE CONSTRUCTED WITH A COMPACTED BASE AS PER THE STANDARDS FOR SIDEWALKS AS

4. BOULEVARDS -150 mm TOPSOIL AND SOD

5. NATIVE SUBGRADE SHALL HAVE A CROSS-FALL OF 3% AND THE MATERIAL SHALL BE APPROVED BY A SOILS CONSULTANT.

6. NATIVE SUBGRADE TO BE COMPACTED TO MINIMUM 95% STANDARD PROCTOR MAXIMUM DRY DENSITY AND SHALL BE PROOF ROLLED OR AS PER GEOTECHNICAL ENGINEER RECOMMENDATIONS.

WORK IN THEIR RESPECTIVE RIGHT-OF-WAYS.

8. CONCRETE CURBS AND SIDEWALK SHALL BE 30 MPA AT 28 DAYS WITH 7% +/-1.5% AIR ENTRAINMENT OR

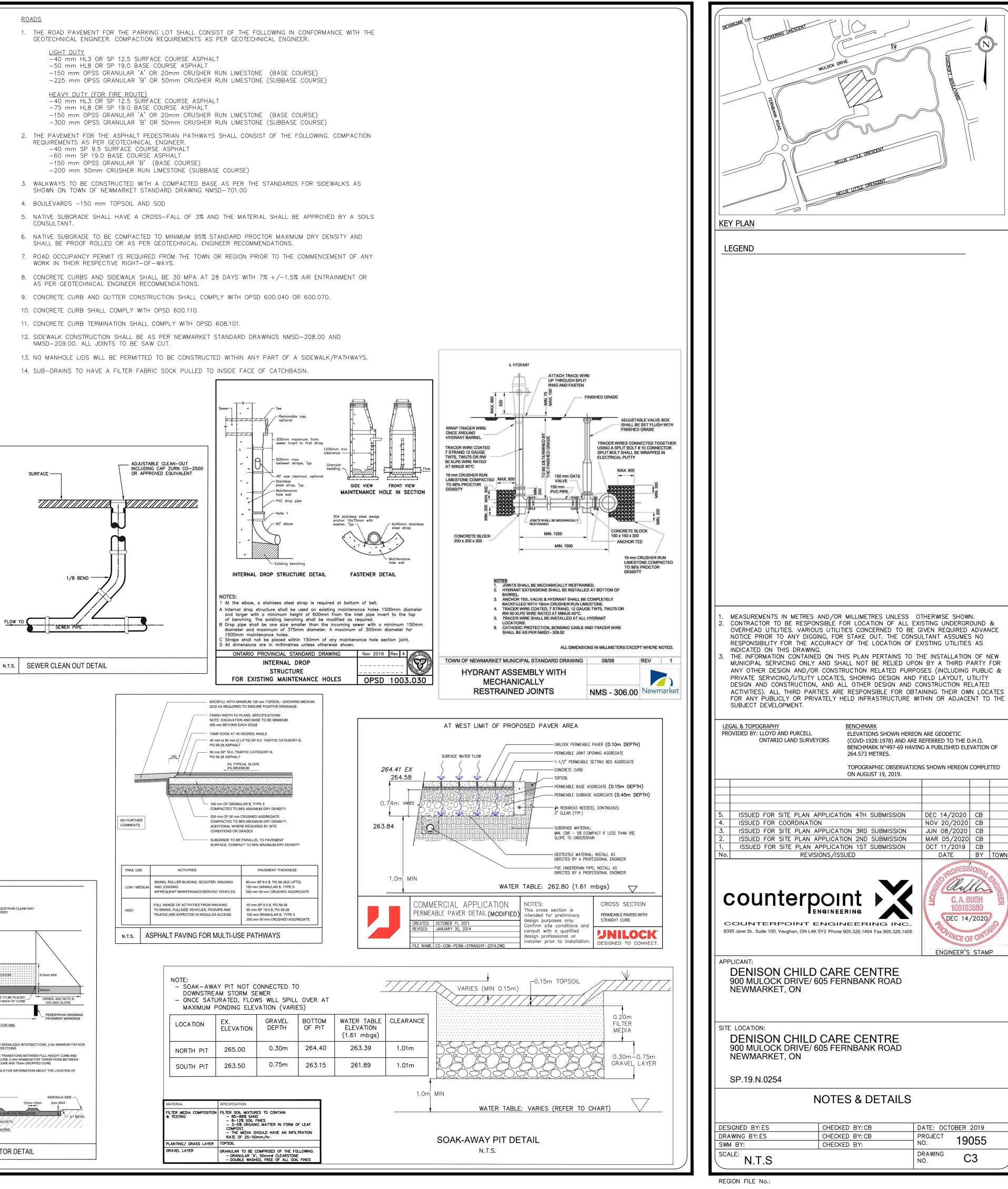
9. CONCRETE CURB AND GUTTER CONSTRUCTION SHALL COMPLY WITH OPSD 600.040 OR 600.070.

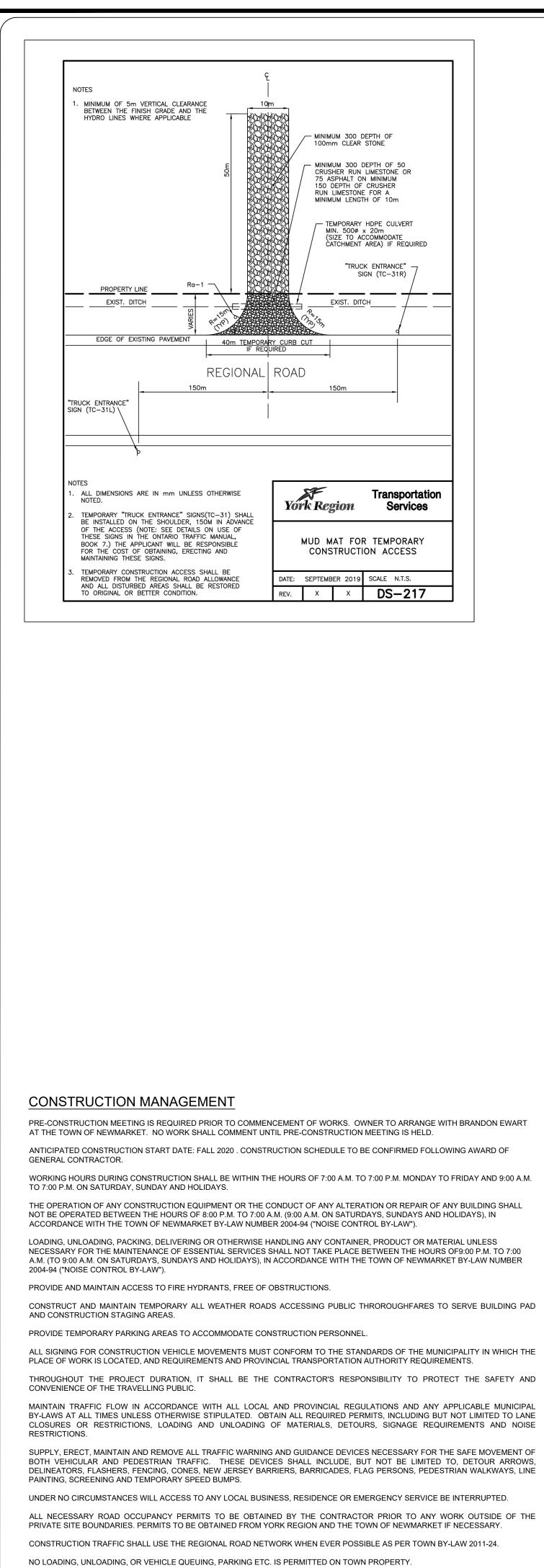
10. CONCRETE CURB SHALL COMPLY WITH OPSD 600.110.

11. CONCRETE CURB TERMINATION SHALL COMPLY WITH OPSD 608.101.

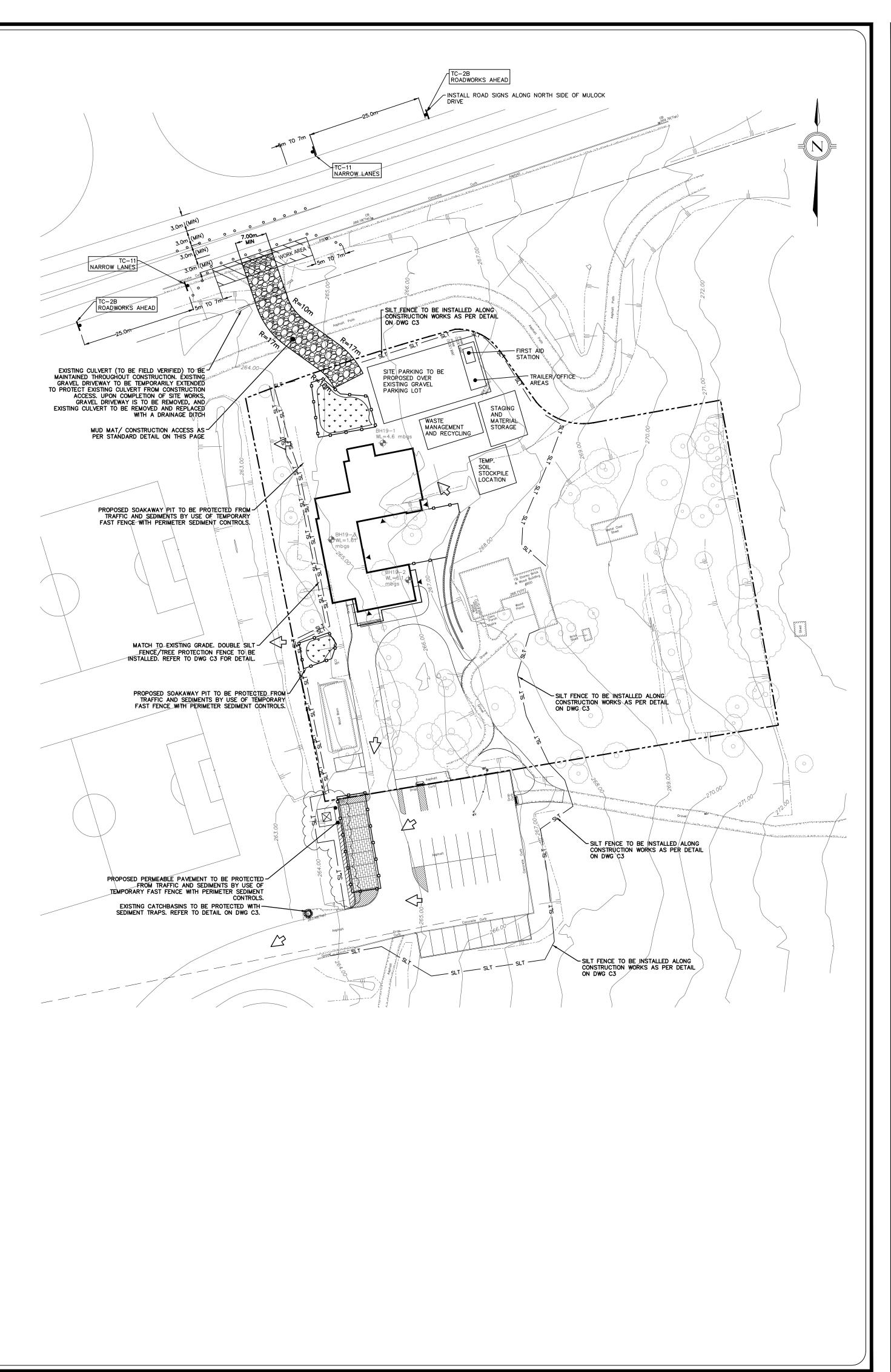
12. SIDEWALK CONSTRUCTION SHALL BE AS PER NEWMARKET STANDARD DRAWINGS NMSD-208.00 AND NMSD-209.00. ALL JOINTS TO BE SAW CUT.

14. SUB-DRAINS TO HAVE A FILTER FABRIC SOCK PULLED TO INSIDE FACE OF CATCHBASIN.





TOWN ROADS SHALL BE LEFT IN A BROOM SWEPT CONDITION AT THE END OF EACH DAY.



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APPLICANT: DENISON CHILD CARE CENTRE	
900 MULOCK DRIVE/ 605 FERNBANK ROAD NEWMARKET, ON	
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SCALE:	DRAWING C4

REGION FILE No .:



APPLICATION NUMBER: GENERAL LEGEND PROPOSED PAD MOUNTED TRANSFORMER LOCATION. PROPOSED INCOMING LOCATION OF PRIMARY DUCTBANK. COORDINATE WITH ALECTRA PRIOR TO ROUGH-IN FOR EXACT ROUTING. F, SANTIA 3 PROPOSED SECONDARY DUCTBANK. & Chillet 4 TRANSFORMER GROUNDING GRID. REFER TO DETAIL #3 ON DRAWING E1.1. GABRIEL G. MOBILIO Nº 57663 5 BOLLARDS (TYPICAL OF 4) COMMUNICATION DUCTBANK. COORDINATE ON SITE FOR FINAL TERMINATION OF COMMUNICATION DUCBANK. LOCATION OF ELECTRICAL ROOM. BIRECT BURIED FEEDER FOR POWER TO ELECTRICAL SERVICE IN EXISTING HERITAGE HOME. COORDINATE ON SITE FOR EXACT LOCATION OF ELECTRICAL EQUIPMENT IN HERITAGE HOME. REFER TO FLOOR PLAN FOR DETAILS. DIRECT BURIED COMMUNICATION CONDUIT TO COMMUNICATION PLYWOOD BACKBOARD IN EXISTING HERITAGE HOME. COORDINATE ON SITE FOR EXACT LOCATION OF PLYWOOD BACKBOARD IN HERITAGE HOME. REFER TO FLOOR PLAN FOR DETAILS. DIRECT BURIED CONDUIT FOR FIRE ALARM TROUBLE SIGNAL FROM DAYCARE FIRE ALARM PANEL TO HERITAGE HOME FIRE ALARM PANEL. COORDINATE ON SITE FOR EXACT LOCATION OF FIRE ALARM PANELS. REFER TO FLOOR PLANS FOR DETAILS. APPROXIMATE LOCATION OF EXISTING NEWMARKET HYDRO SWITCHGEAR. COORDINATE ON SITE FOR EXACT LOCATION PRIOR TO ROUGH-IN OF PRIMARY DUCTBANK. REVISIONS 2020.11.18 FC ADDENDUM #E1 SUBMITTALS -2021.01.25 FC 2020.12.01 FC 0. RE-ISSUED FOR SPA RE-ISSUED FOR SPA 2020.11.11 FC RE-ISSUED FOR TENDER 2020.11.05 FC ISSUED FOR PERMIT REVISIONS 2020.08.12 FC RE-ISSUED FOR PERMIT 2020.06.26 FC RE-ISSUED FOR PERMIT 2020.06.01 FC ISSUED TO ESA 2020.05.29 FC ISSUED FOR TENDER 2020.04.17 FC ISSUED FOR PERMIT ISSUED FOR COORDINATION 2020.04.09 FC YYYY.MM.DD By PROJECT TRUE NORTH **CONSULTING ENGINEERS** LIGHTING - ELECTRICAL 595 CITYVIEW BLVD, SUITE 204/205 VAUGHAN, ONTARIO, CANADA L4H 3M7 Tel:(905)417-6881 Fax:(905)417-6882 www.e-lumen.ca 219031 - DENISON DAYCARE CENTRE 900 MULOCK DRIVE / 605 FERNBANK ROAD, NEWMARKET, ONTARIO ELECTRICAL SITE PLAN 2020.02.19 E1.0

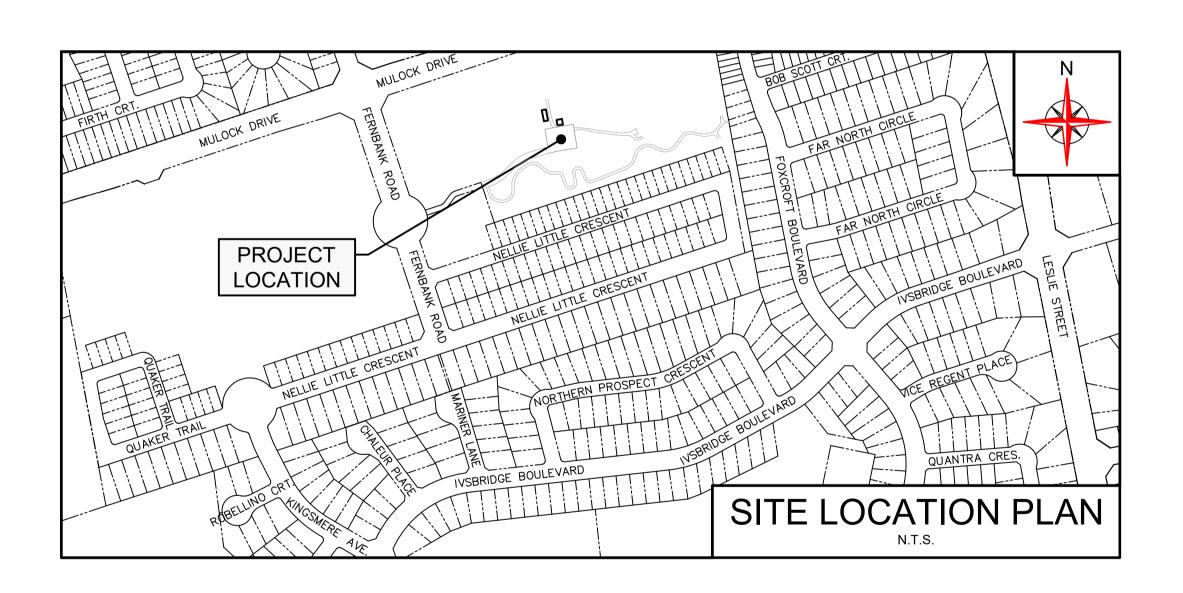
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1:500 File Number 19-247

APPLICATION NUMBER:

TOWN OF NEWMARKET **STICKWOOD WALKER WATERMAIN REPLACEMENT**

CONTRACT OR TENDER NO. FINAL SUBMISSION





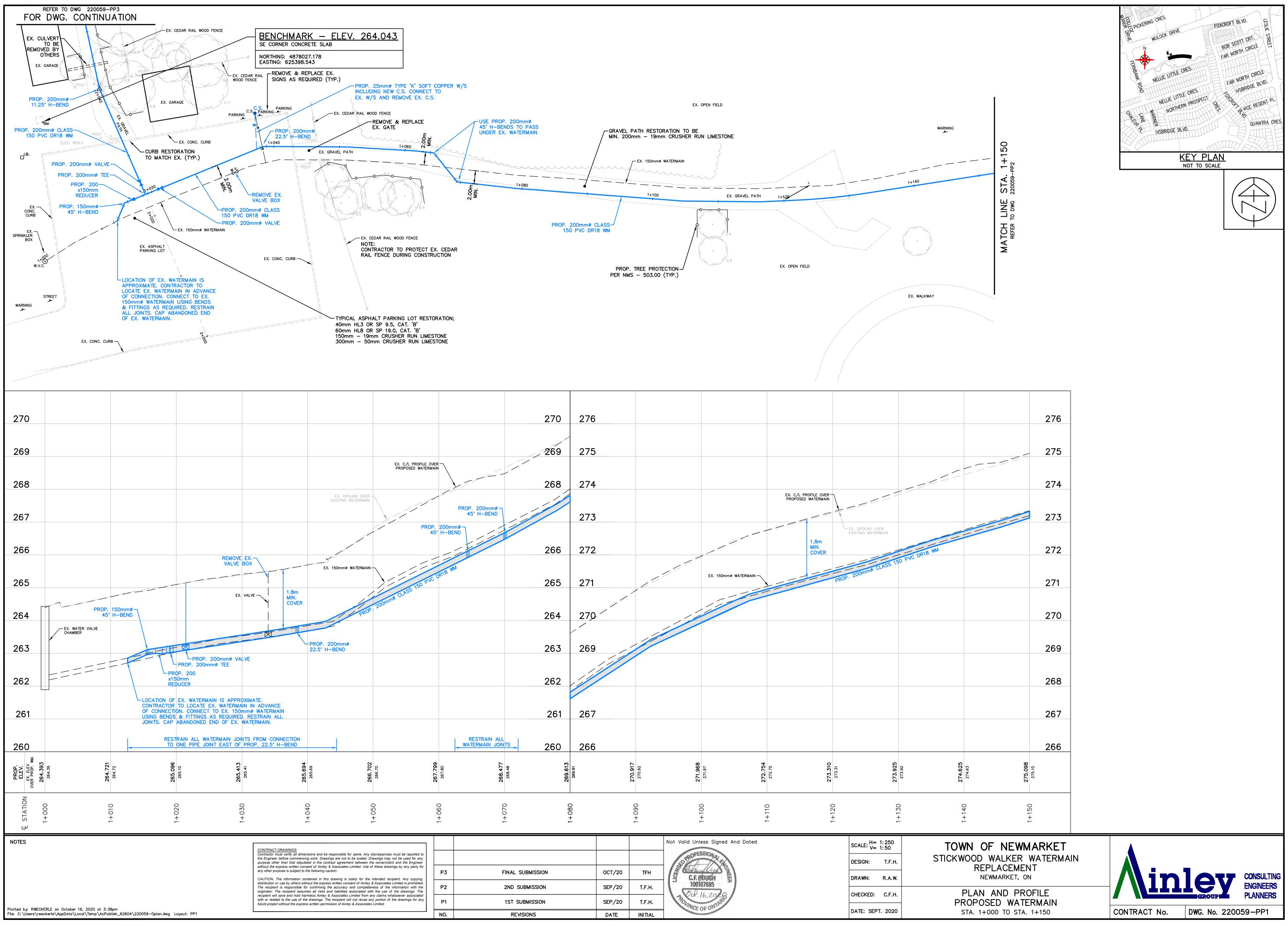
DRAWING LIST

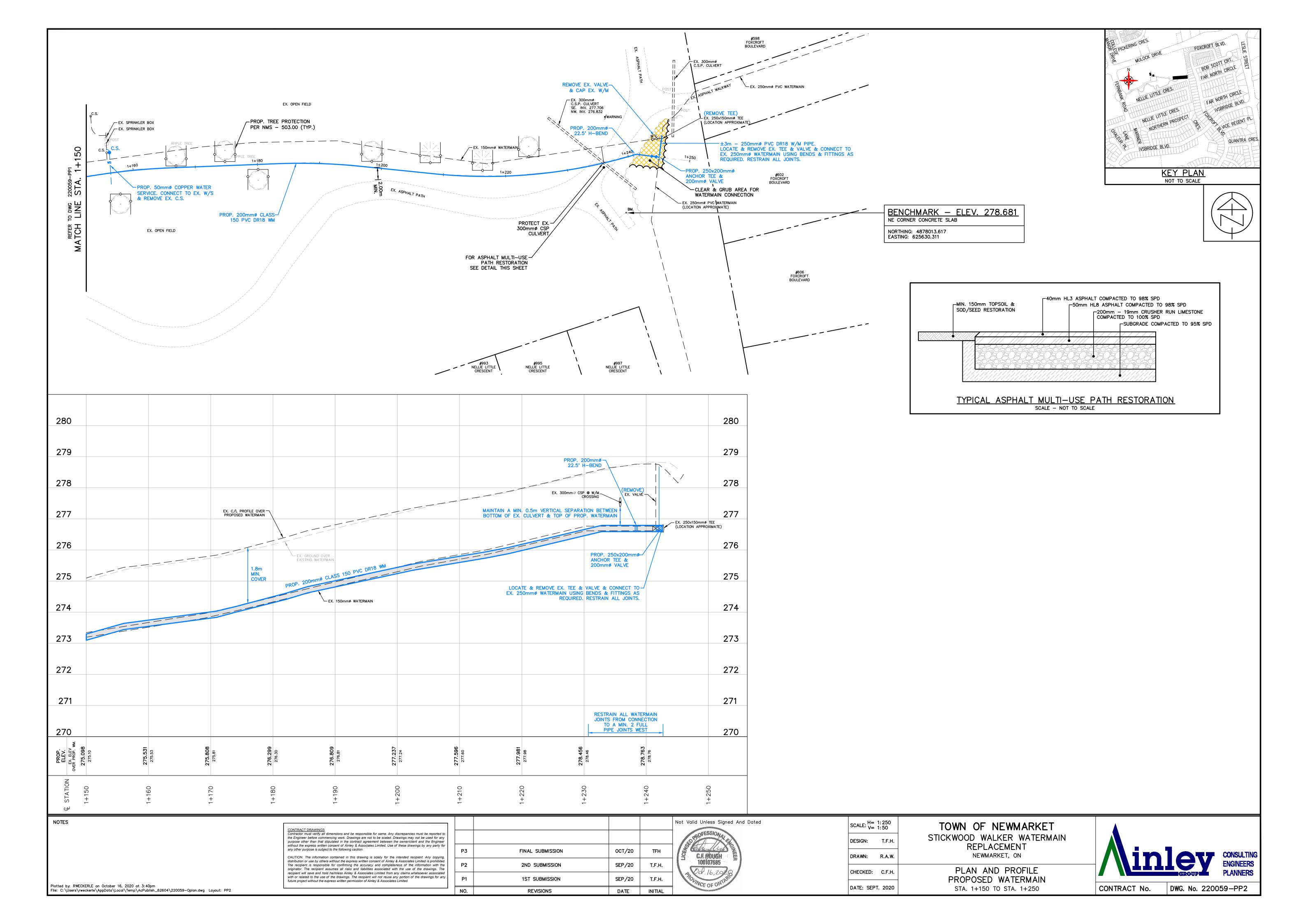
DWG. No.	TITLE		
COVER & INDEX			
PP1	PLAN & PROFILE	STA. 1+000 TO STA. 1+150	
PP2	PLAN & PROFILE	STA. 1+150 TO STA. 1+250	
PP3	PLAN & PROFILE	STA. 2+000 TO STA. 2+070	
DET1	GENERAL NOTES & LEGEND		
DET2	TOWN OF NEWMARKET STANDARD DRAWING DETAILS & OPSD DETAILS		

AINLEY PROJECT No. 220059





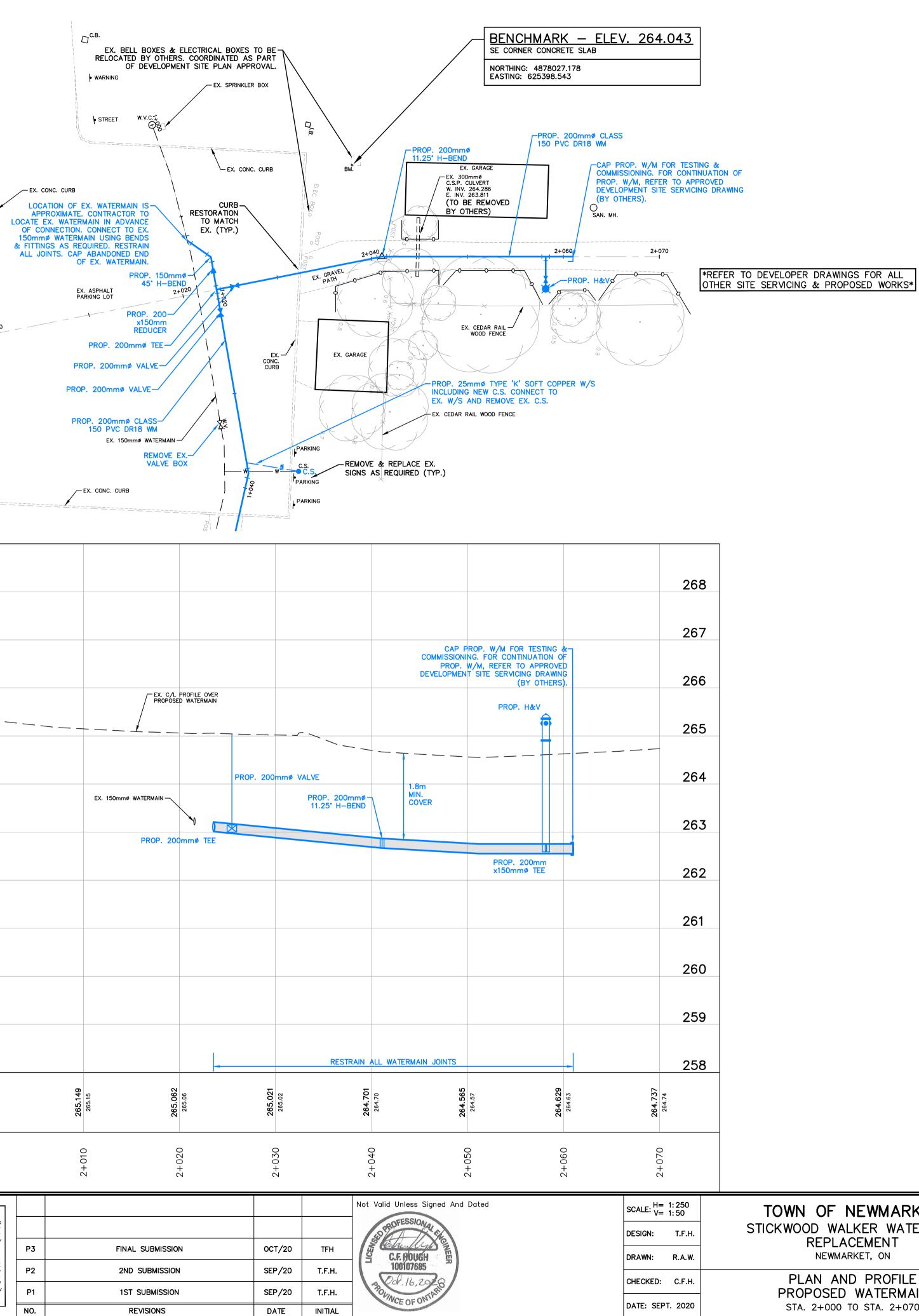


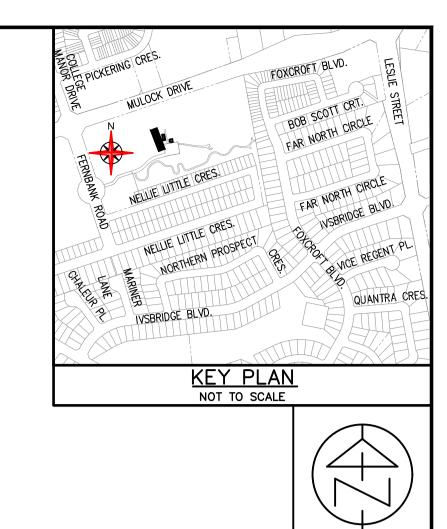




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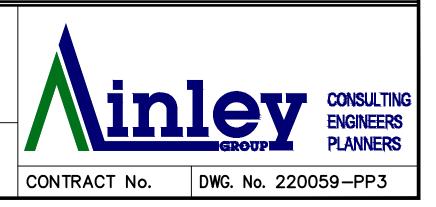
NOTES			
	<u>CONTRACT DRAWINGS</u> Contractor must verify all dimensions and be responsible for same. Any discrepancies must be reported to the Engineer before commencing work. Drawings are not to be scaled. Drawings may not be used for any purpose other than that stipulated in the contract agreement between the owner/client and the Engineer		
	without the express written consent of Ainley & Associates Limited. Use of these drawings by any party for any other purpose is subject to the following caution.	Р3	
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TOWN OF NEWMARKET STICKWOOD WALKER WATERMAIN REPLACEMENT NEWMARKET, ON

> PLAN AND PROFILE PROPOSED WATERMAIN STA. 2+000 TO STA. 2+070



GENERAL NOTES - MISCELLANEOUS

- 1. ALL DIMENSIONS ARE IN METRES (m) AND ALL PIPE SIZES ARE IN MILLIMETRES (mm), UNLESS OTHERWISE SPECIFIED.
- 2. THE NOTES ON THIS SHEET APPLY TO ALL WORKS UNDER THIS CONTRACT UNLESS OTHERWISE NOTED ON THE PLAN AND PROFILE DRAWINGS AND/OR SPECIFIC DETAIL DRAWINGS.
- 3. THE STANDARD DRAWINGS OF THE TOWN, ONTARIO PROVINCIAL STANDARDS AND SPECIFICATIONS (OPSS) AND THE ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) CONSTITUTE PART OF THE PLANS OF THIS PROJECT.
- 4. ORDER OF PRECEDENCE OF STANDARD DRAWINGS IS FIRSTLY TOWN OF NEWMARKET STANDARD DRAWINGS AND SECONDLY ONTARIO PROVINCIAL STANDARD DRAWINGS.
- 5. THE STANDARD DRAWINGS INCLUDED WITH THESE PLANS ARE PROVIDED FOR CONVENIENCE ONLY AND ARE NOT TO BE CONSTRUED TO BE A COMPLETE SET FOR THE PURPOSE OF THE CONTRACT OR PROJECT.
- 6. ALL DIMENSIONS AND ELEVATIONS SHALL BE CHECKED AND VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION AND ANY DISCREPANCIES SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER.
- 7. ALL SITE CONTROL AND EROSION PROTECTION DEVICES ARE TO BE IN PLACE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL CONSTRUCTION IS COMPLETE AND THE GRASS HAS ESTABLISHED GROWTH, SUBJECT TO APPROVAL BY THE TOWN'S ENGINEER.
- 8. NATIVE MATERIAL, SUITABLE FOR BACKFILL, SHALL BE COMPACTED TO 95% STANDARD PROCTOR MAXIMUM DRY DENSITY WITHIN THE BOULEVARD.
- 9. GRANULAR MATERIAL USED FOR BACKFILL SHALL BE PLACED IN LAYERS 150mm IN DEPTH MAXIMUM AND COMPACTED TO 100% STANDARD PROCTOR MAXIMUM DRY DENSITY.
- 10. MATERIAL SPECIFICATION FOR ALL FRAMES, GRATES, COVERS AND GRATINGS SHALL BE AS PER OPSS 1850. FINISH ON ALL SURFACES SHALL BE PAINTED.
- 11. CONTRACTORS SHALL NOTE THAT THERE MAY BE NUMEROUS UTILITY CABLES CROSSING OVER THE ROAD(S) AT VARIOUS LOCATIONS, WHICH MAY NOT BE SHOWN ON THE DRAWINGS. SOME OR ALL OF THESE OVERHEAD UTILITY CABLES MAY REQUIRE SHIELDING OR OTHER APPROPRIATE FORM OF PROTECTION AS REQUIRED BY THE RESPECTIVE UTILITY COMPANY, THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS (R.S.O. 1990, CH. O1, AS AMENDED) AND ALL OTHER APPLICABLE LEGISLATION IN FORCE. PRIOR TO BIDDING THE CONTRACTOR SHALL THOROUGHLY FAMILIARIZE HIM/HERSELF WITH THE NUMBER AND LOCATIONS OF THESE OVERHEAD UTILITY CABLES AND SHALL PREPARE THEIR BID ACCORDINGLY. NO EXTRA PAYMENT WILL BE ALLOWED FOR WORKING AROUND OVERHEAD UTILITY CABLES. ANY CABLE(S) DAMAGED BY THE CONTRACTOR'S ACTIVITIES SHALL BE RESTORED BY THE UTILITY COMPANY WHO OWNS THE CABLE(S) AT THE CONTRACTOR'S EXPENSE.
- 12. ALL DISTURBED AREAS TO BE REINSTATED TO EXISTING CONDITIONS OR BETTER. LIMITS OF ALL RESTORATION TO BE CONFIRMED BY THE TOWN.

GENERAL NOTES - WATERMAINS

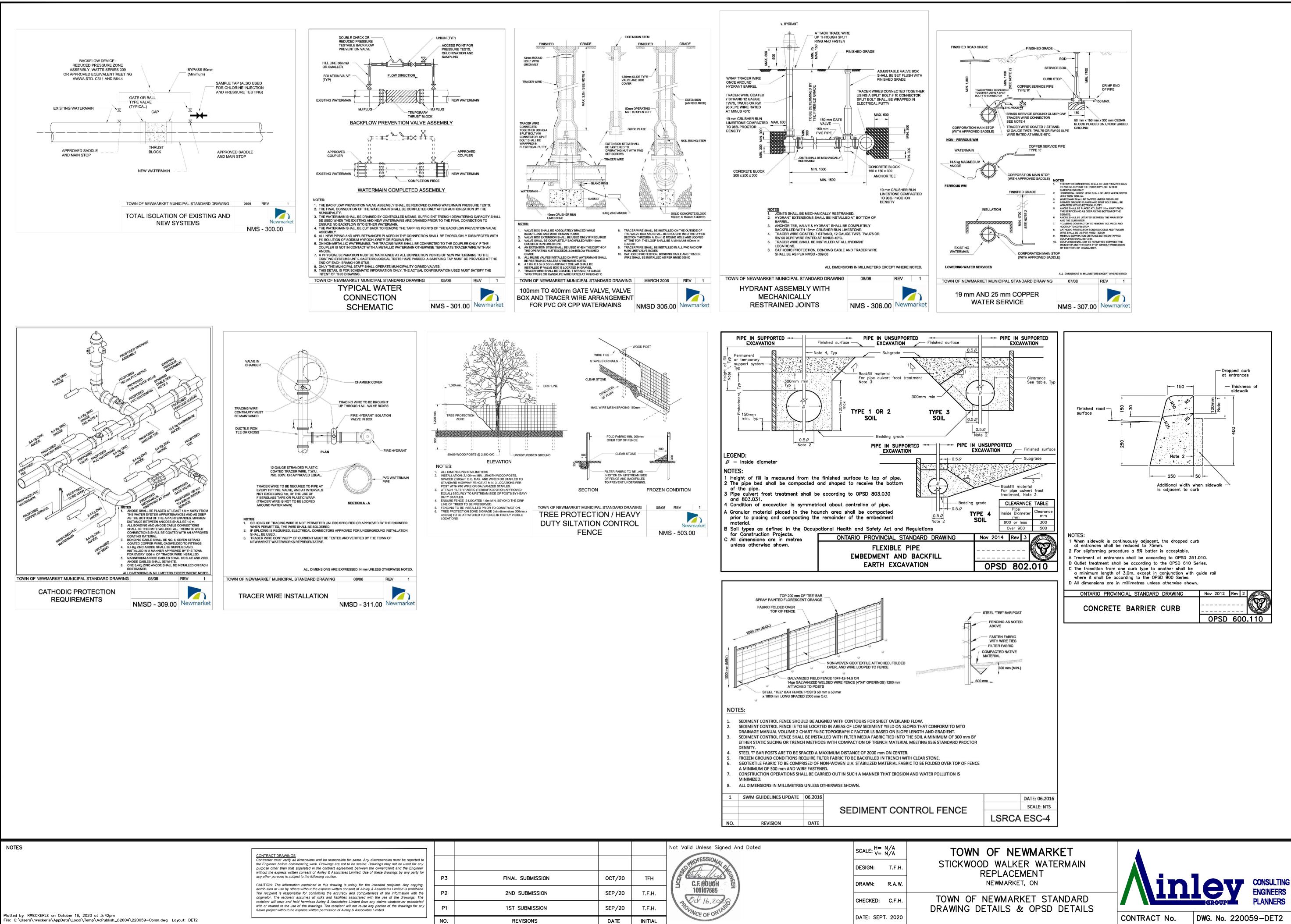
- 1. WATERMAIN MATERIAL TO BE PVC C-900, CLASS 150 (DR 18) AND HDPE DR11. PVC WATERMAIN SHALL INCLUDE #12 TRACER WIRE FIXED TO TOP OF PIPE.
- 2. DUCTILE IRON MECHANICAL JOINT FITTINGS MEETING AWWA/ANSI SPECIFICATIONS C110/A21.10 AND C153/A21.53 SHALL BE USED ON PVC WATERMAIN 150mm TO 300mm IN DIAMETER.
- 3. ALL DOMESTIC WATER SERVICES SHALL BE 25mm DIAMETER TYPE 'K' COPPER PIPE AND INCLUDE CATHODIC PROTECTION PER TOWN OF NEWMARKET STANDARD DETAIL 309.
- 4. A MINIMUM OF 0.5m VERTICAL CLEARANCE BETWEEN THE WATERMAIN AND ALL UTILITIES MUST BE KEPT, WHILE STILL MAINTAINING A MINIMUM DEPTH OF COVER AT ALL TIMES AS SPECIFIED. 5. WATERMAIN SHALL BE INSTALLED WITH A MINIMUM COVER OF 1.8m UNLESS OTHERWISE SPECIFIED.
- 6. PVC WATERMAIN EMBEDMENT SHALL BE CLEAR SAND, 150mm BELOW AND 300mm ABOVE THE WATERMAIN (REFER TO OPSD 802.010).
- 7. MECHANICAL JOINT RESTRAINTS ARE TO BE INSTALLED ON BELL AND SPIGOT JOINTS FOR ALL WATERMAINS CONSTRUCTED IN FILL MATERIAL AND AT ALL TEES, HORIZONTAL BENDS, VERTICAL BENDS, HYDRANTS, END OF MAINS AND VALVES. CONCRETE THRUST BLOCKS ARE NOT PERMITTED UNLESS EXPRESSLY APPROVED BY THE TOWN.
- 8. HYDRANTS TO BE MUELLER 'CENTURY', CLOW MCAVITY OR APPROVED EQUIVALENT COMPRESSION TYPE COMPLETE THREE PORT HYDRANTS WITH 100mm, ¼ TURN STORZ NOZZLE FACING THE STREET. THE SIDE PORTS SHALL BE 65mm DIAMETER THREADED. HYDRANT TEES TO BE ANCHOR STYLE. ALL HYDRANTS TO BE EQUIPPED WITH ANTI-TAMPERING DEVICES.
- 9. HYDRANTS ARE TO BE PAINTED FIRE ENGINE RED. THE STORZ CAP IS TO BE BLACK. STEAMER OR PUMPER PORT THREADED CONNECTIONS ARE TO BE PAINTED RED (SAME AS BARREL). 10. REFLECTIVE RINGS COLOUR CODED TO THE HYDRANT TO THE HYDRANT FLOW CLASSIFICATION WILL BE INSTALLED ON THE 65mm PORTS BY THE TOWN.
- 11. HYDRANT FLANGE ELEVATIONS SHALL BE SET AT A GRADE OF 50mm TO 150mm ABOVE THE FINISHED GROUND ELEVATION.
- 12. A MINIMUM HORIZONTAL SEPARATION OF 2.5m SHALL BE MAINTAINED BETWEEN THE WATERMAIN AND ANY SEWER.
- 13. UNLESS SPECIFIED OR APPROVED BY THE TOWN, ALL VALVES SHALL BE MUELLER RESILIENT WEDGE GATE VALVES OR APPROVED EQUIVALENT. VALVES SHALL HAVE A NON-RISING STEM AND A 50mm SQUARE OPERATING NUT, OPENING COUNTER-CLOCKWISE.
- 14. ALL VALVES 300mm IN DIAMETER AND LARGER SHALL BE INSTALLED INSIDE VALVE CHAMBERS. THESE VALVES SHALL HAVE FLANGED ENDS. A FLANGED TO PLAIN END SPACER AND A VICTAULIC COUPLER SHALL BE INSTALLED INSIDE THE CHAMBER TO PERMIT REMOVAL OF THE VALVE IF NECESSARY. 15. VALVES IN EXCESS OF 2.4m IN DEPTH SHALL REQUIRE A VALVE STEM EXTENSION.
- 16. THE CONTRACTOR SHALL INFORM THE TOWN 72 HOURS IN ADVANCE PRIOR TO COMMENCING WORK ON ANY PART OF THE WATER SYSTEM. 17. CATHODIC PROTECTION OF WATERMAIN SYSTEMS SHALL BE IN ACCORDANCE WITH TOWN OF NEWMARKET STANDARD DETAIL 309 INCLUDING INSTALLATION OF 14.5kg MAGNESIUM ANODE WHEN CONNECTING TO AN EXISTING METALLIC WATERMAIN.
- 18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WATERMAIN TESTING AND COMMISSIONING IN ACCORDANCE WITH `APPENDIX 7' WATERMAIN TESTING REQUIREMENTS (COPY WILL BE PROVIDED)

NOTES			
	is and be responsible for same. Any discrepancies must be reported to ork. Drawings are not to be scaled. Drawings may not be used for any		
purpose other than that stipulated	in the contract agreement between the owner/client and the Engineer of Ainley & Associates Limited. Use of these drawings by any party for	Р3	
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<u>LEGEND</u>				
⊏ == ^{EX.} 300mmø ^{CSP} == = = EXIS	T. CULVERT		PROP.	WATERMAIN
== ^{EX.} 300mmø STM ========== EXIS	T. STORM SEWER			SANITARY SEWER MAIN
EV 200mmd SAN	T. SANITARY SEWER			STORM SEWER MAIN
	T. CURB	<u> </u>		WATER SERVICE
EXIS	T. EDGE OF PAVEMENT	~		SANITARY SERVICE
	T. HYDRO LINE			CURB & GUTTER
	T. GAS LINE			
	T. BELL LINE	C.S.	PROP.	CURB STOP
	T. CABLE LINE	- + -		FIRE HYDRANT
	T. SANITARY SERVICE			WATER VALVE
	T. WATER SERVICE	× 244.48	PROP.	ELEVATION
— EXIS EX.CB	T. C/L DITCH		PROP.	CATCHBASIN
	T. CATCH BASIN		PROP.	DOUBLE CATCHBASIN
	T. STORM MANHOLE	\bigcirc	PROP.	STORM MAINTENANCE HOLE
	T. SANITARY MANHOLE	\bigcirc	PROP.	SANITARY MAINTENANCE HOLE
	T. FIRE HYDRANT			
	T. WATER VALVE			
	T. CURB STOP			
	T. LIGHT STANDARD			
O ^{H.L.S.} EXIS	T. HYDRO POLE/LT. STD.			
	T. STREET SIGN			
⊠ ^{B. PED} EXIS	T. BELL PEDESTAL			
B. PED EXIS	T. CABLE PEDESTAL			
TRAN. EXIS	T. HYDRO TRANSFORMER			
	T. TREE			

			Not Valid Unless Signed And Dated	SCALE: H= N/A V= N/A	TOWN OF NEWMARKET
			STATISK SK	DESIGN: T.F.H.	STICKWOOD WALKER WATERMAIN
FINAL SUBMISSION	OCT/20	TFH		DRAWN: R.A.W.	NEWMARKET, ON
2ND SUBMISSION	SEP/20	T.F.H.	100107685		
1ST SUBMISSION	SEP/20	T.F.H.	30 Ct. 16,200	CHECKED: C.F.H.	GENERAL NOTES & LEGEND
REVISIONS	DATE	INITIAL	VCE OF ON	DATE: SEPT. 2020	





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NO.