

**THE CORPORATION OF THE TOWNSHIP OF ESSA  
COMMITTEE OF THE WHOLE MEETING  
WEDNESDAY, SEPTEMBER 18, 2024  
6:00 p.m.**

**AGENDA**

Members of the public wishing to attend can do so by attending in person to the Council Chambers in the Administration Centre located at 5786 County Road 21, Utopia.

**1. OPENING OF MEETING BY THE MAYOR**

The Township of Essa acknowledges that we are situated on land within the area of Treaty 18, also known as the Lake Simcoe-Nottawasaga Treaty, signed on October 17, 1818 between the Government of Upper Canada and the Anishinaabe Indigenous peoples. The Anishinaabe include the Ojibwe, Odawa and Pottawatomi Nations collectively known as the Three Fires Confederacy. We are dedicated to honouring Indigenous history and culture and committed to moving forward in the spirit of reconciliation and respect with all First Nation, Metis and Inuit People.

**2. DISCLOSURE OF PECUNIARY INTEREST**

**3. DELEGATIONS / PRESENTATIONS / PUBLIC MEETINGS**

**a. Presentation**

**Royal Victoria Hospital Foundation – Al Gilcrest and Trina Duncan**  
Re: Donation from Essa Golf Tournament

**STAFF REPORTS**

**4. PLANNING AND DEVELOPMENT / BUILDING**

- p. 1 a. **Staff Report PD012-24 submitted by the Manager of Planning, re: Deeming By-law – Lots 16 and 17 East Side of Fraser Street, Plan 160A.**

Recommendation: **BE IT RESOLVED THAT** Staff Report PD012-24 be received; and **THAT** Council direct Staff to prepare a deeming by-law to be adopted at a future date that would have the effect of removing Lots 16 and 17 East Side of Fraser Street of Plan 160A from the provisions of Section 50 (3) and (5) of the Planning Act, R.S.O. 1990, c.P.13.

- p. 4 b. **Staff Report PD013-24 submitted by the Manager of Planning, re: Application to Change Name – Margaret Street Plan 160A.**

Recommendation: **BE IT RESOLVED THAT** Staff Report PD013-24 be received; and **THAT** Council authorize the execution of an Application to Change Name to the Land Registry Office for Margaret Street.

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5. **PARKS AND RECREATION / COMMUNITY SERVICES**

- p. 6 a. **Staff Report PR011-24 submitted by the Manager of Parks and Recreation, re: U7 Hockey Request for 2024/2025 Season.**

Recommendation: **BE IT RESOLVED THAT** Staff Report PR011-24 be received; and **THAT** Council direct Staff to proceed with booking a reduced 50% ice rate for U7 Essa Minor and Thornton Minor Hockey for a quantity of 2, 1-hour sessions per week to be invoiced monthly for the 2024/2025 season; and **THAT** Council direct Staff to include 10 free room rentals (non-licensed events) for 3 hours per rental per minor hockey organization for the 2024/2025 season.

6. **FIRE AND EMERGENCY SERVICES**

7. **PUBLIC WORKS**

- p. 9 a. **Staff Report PW14-24 submitted by the Manager of Public Works, re: Essa Engineering Standards Updates.**

Recommendation: **BE IT RESOLVED THAT** Staff Report PW014-24 be received: and **THAT** Council adopt the attached 2024 Engineering Standards Draft updates (Appendix A - Approved Materials List).

8. **FINANCE**

9. **CLERKS / BY-LAW ENFORCEMENT / IT**

10. **CHIEF ADMINISTRATIVE OFFICER (C.A.O.)**

11. **OTHER BUSINESS**

12. **ADJOURNMENT**

Recommendation: **BE IT RESOLVED THAT** this meeting of Committee of the Whole of the Township of Essa adjourn at \_\_\_\_\_pm., to meet again on the 2<sup>nd</sup> day of October, 2024 at 6:00 p.m.

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## TOWNSHIP OF ESSA STAFF REPORT

**STAFF REPORT NO.:** PD012-24  
**DATE:** September 18, 2024  
**TO:** Committee of the Whole  
**FROM:** Samuel Haniff, Manager of Planning  
**SUBJECT:** Deeming By-law  
Lots 16 and 17 East Side Fraser Street, Plan 160A

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### RECOMMENDATION

That Staff Report PD012-24 be received; and

That Council direct Staff to prepare a deeming by-law to be adopted at a future date that would have the effect of removing Lots 16 and 17 East Side of Fraser Street of Plan 160A from the provisions of Section 50 (3) and (5) of the Planning Act, R.S.O. 1990, c.P.13..

### BACKGROUND

Section 50 (4) of the Planning Act allows a local municipality to designate by by-law any plan of subdivision, or part thereof, that has been registered for 8 years or more, not to be a registered plan of subdivision for purposes of purchase, sale or transfer, etc., which are matters governed by subsections 3 or 5.

A Planning Act application is currently being processed by the Township for lands municipally known as 1 & 3 Fraser Street in Angus for the purpose of commercial development. Through a legal review, Lots 16 and 17 East Side of Fraser Street have been observed to still be part of Plan 160A, which was registered on December 16<sup>th</sup>, 1871.

To process the Planning Act application (Minor Variance – Application A9-24), Lots 16 and 17 East Side of Fraser Street cannot be bound by sections 50 (3) and (5) of the Planning Act. Additionally, a Consolidation Application (SC2075707) has been registered by the Land Registry Office but has not yet been certified. A deeming by-law would rectify/facilitate these matters.

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**COMMENTS AND CONSIDERATIONS**

Council may pass a deeming by-law specific to Lots 16 and 17 East Side of Fraser Street of Plan 160A. The lands are designated Residential in the Township Official Plan and are intended to be developed for medium density residential purposes.

**FINANCIAL IMPACT**

Any costs associated with registering the deeming by-law on title will be borne by the applicant, with no cost to the Township.

  
Manager of Finance

**SUMMARY/OPTIONS**

Council may:

1. Take no further action.
2. **Direct Staff to prepare a deeming by-law which would be presented to Council for adoption at a future date, and have the effect of removing Lots 16 and 17 East Side of Fraser Street of Plan 160A from the provisions of Section 50 (3) and (5) of the Planning Act, R.S.O. 1990, c.P.13.**
3. Direct staff in another manner.

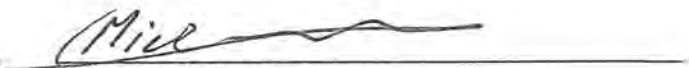
**CONCLUSION**

Option #2 is recommended.

Respectfully submitted by:

Reviewed by:

  
Samuel Haniff  
Manager of Planning

  
Michael Mikael  
Chief Administrative Officer

Attachments:

1. Attachment 1 – Satellite Imagery of 1 & 3 Fraser Street



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**TOWNSHIP OF ESSA STAFF REPORT**

**STAFF REPORT NO.:** PD013-24

**DATE:** September 18, 2024

**TO:** Committee of the Whole

**FROM:** Samuel Haniff, Manager of Planning

**SUBJECT:** Application to Change Name  
Margaret Street Plan 160A

**RECOMMENDATION**

That Staff Report PD013-24 be received; and

That Council authorize the execution of an Application To Change Name to the Land Registry Office for Margaret Street.

**BACKGROUND**

In connection with a current Planning Act application for a Margaret Street property, HGR Graham Partners conducted a search of title and discovered that Margaret Street (Plan 160A Essa Township, County of Simcoe, being all of PIN 58108-0111(LT)) was shown in the Land Registry Office as being owned by "The Public Authority Having Jurisdiction", when it should show as being owned by "The Corporation of The Township of Essa".

**COMMENTS AND CONSIDERATIONS**

Council may authorize an Application To Change Name to correct this matter. To facilitate this process, an Authorization and Direction for the Application would need to be signed by the Mayor and Clerk and would allow for registration of the Application on Title.

**FINANCIAL IMPACT**

Any costs associated with registering the Application To Change Name will be borne by the applicant of the abovementioned Planning Act application.

  
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 Manager of Finance

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**SUMMARY/OPTIONS**

Council may:


1. **Authorize the execution of an Application To Change Name for Margaret Street to the Land Registry Office.**
2. Direct staff in another manner.

**CONCLUSION**

Option #1 is recommended.

Respectfully submitted by:

Reviewed by:



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Samuel Haniff  
Manager of Planning

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Michael Mikael  
Chief Administrative Officer



## TOWNSHIP OF ESSA STAFF REPORT

**STAFF REPORT NO.:** PR011-24  
**DATE:** September 18, 2024  
**TO:** Committee of the Whole  
**FROM:** Chris Rankin, Manager of Parks and Recreation  
**SUBJECT:** U7 Hockey Request for 2024/2025 Season

### RECOMMENDATION

That Staff Report PR011-24 be received; and

That Council direct Staff to proceed with booking a reduced 50% ice rate for U7 Essa Minor and Thornton Minor Hockey for a quantity of 2, 1-hour sessions per week to be invoiced monthly for the 2024/2025 season; and

That Council direct Staff to include 10 free room rentals (non-licensed events) for 3 hours per rental per minor hockey organization for the 2024/2025 season.

### BACKGROUND

In the past approximately 7 seasons, the Township agreed to reduce the fees associated with U7 Ice Hockey with the thought and hope to help attract new registrants to play hockey. The Township and Essa's Minor Hockey organizations (Essa/ Thornton) agreed for U7 to pay 50% of the ice rental fees at the end of season with an approximate total of \$8,000 being paid to the Township combined from the organizations.

Essa (Angus) Minor U7 2023/2024 hockey season had 47 players registered.  
Thornton Minor U7 2023/2024 hockey season had 24 players registered.



## COMMENTS AND CONSIDERATIONS

Previously, Essa Council decided to offer a reduced rate of 50% ice rental per hour for U7. **It should be noted that no other municipality has or does offer a 50% ice rate discount for U7 or any other Minor Hockey team however the discount allows more children to sign up and experience the sport.**

It should also be noted that the request being brought forward is received only from Essa (Angus) Minor Hockey this year as in the past.

The additional request received is for 10 free room rentals (non-licensed events) for 3 hours per rental for the 2024/2025 season per organization. The meeting/banquet room policy shall apply to Sub-Committees or Auxiliary Committees affiliated with the same minor groups and are considered the same organization, and no additional free rentals will be permitted (i.e., individual team booking not approved by the executive board members prior to meeting). Free rentals are subject to availability of the facility and staff. The Township reserves the right to change the location of the event within the same building for these groups. (ie. In the event of Minor Hockey has half the gym booked for a meeting and a rental request is received, the Minor Hockey meeting would be relocated to the Banquet Hall to accommodate a rental).

The current Fee Schedule offers a rental discount rate of 50% for room rental for nonprofit and Charity Organizations. This discount would not apply if a minor hockey organization exceeded the 10 free meetings per season.

## FINANCIAL IMPACT

The financial impact on the Township for a reduced ice rate of 50% for both Essa and Thornton Minor U7 Hockey for the 2024 - 2025 season would be a revenue loss of approximately \$8,000.

The financial impact on the Township for 10 free meeting room rentals per organization would be approximately \$1000 per year per organization which would result in a revenue loss of \$2,000 and there is approximately a potential of 6 non-profit minor organizations in Essa at this time.

Manager of Finance:

**SUMMARY/OPTIONS**

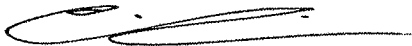
Council may:

1. Take no further action.
2. Direct Staff to proceed with booking U7 Hockey ice for the 2024-2025 season at a rate of 50% per hour to be invoiced monthly to both Essa Minor and Thornton Minor which would result in operating at a loss.
3. Direct Staff to book U7 as per guidelines set out in the approved fee schedule for the minor affiliate rate as per Industry Standards and is in line with all other municipalities.
4. Direct the Manager of Parks and Recreation to provide 10 free meeting room rentals for Thornton Minor Hockey and Essa Minor Hockey per year as described above.
5. Direct Staff in another course of action.


**CONCLUSION**

Staff recommends Options # 2 and Option # 4 be approved.

Respectfully submitted,



\_\_\_\_\_  
Chris Rankin  
Manager of Parks and Recreation



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Michael Mikael P.Eng  
Chief Administrative Officer

Attachment:  
Meeting Space Request  
U7 Timbit Request



## TOWNSHIP OF ESSA STAFF REPORT

**STAFF REPORT NO.:** PW014-24

**DATE:** September 18<sup>th</sup>, 2024

**TO:** Committee of the Whole

**FROM:** John Kolb, Manager of Public Works

**SUBJECT:** **Essa Engineering Standards Updates**

### RECOMMENDATION

That Staff Report PW014-24 be received: and

That Council adopt the attached 2024 Engineering Standards Draft updates.

### BACKGROUND

The Township Engineering Design Standards were updated back in 2022. The Engineering Standards is a living document and subject to periodic updates on a yearly basis based on challenges, concerns, and industry trends.

### COMMENTS AND CONSIDERATIONS

Staff updated the Approved Materials List over the past few months to ensure consistency and high-quality products across the Township (Appendix A). The attached draft addresses many of the concerns and challenges with all departments.

The Approved Material List has been circulated and discussed with all Department Heads to ensure compliance with each department needs.

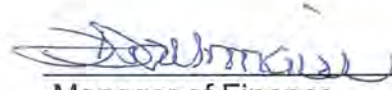
### Highlights:

- Provision of general information and selection criteria for subdivision design products.
- List of pre-approved landscaping species.
- Specifications for park equipment to ensure compliance with the Accessibility for Ontarians with Disabilities Act (AODA).
- Catalogue of pre-approved manufacturers to guarantee the use of high-quality materials, in addition to approved project-specific alternatives.
- Verification of compatibility with existing infrastructure.
- Serve as a comprehensive reference document for future development.

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**FINANCIAL IMPACT**

None.

  
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Manager of Finance

**SUMMARY/OPTIONS**

Council may:

1. Take no action.
2. **Adopt the 2024 Engineering Standards Draft Updates as presented in Appendix A.**
3. Direct Staff in another course of action

**CONCLUSION**

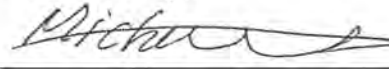
Staff recommends that **Option 2** be approved.

Respectfully submitted,

  
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John Kolb  
Manager of Public Works (Interim)

Reviewed by,

  
\_\_\_\_\_

Michael Mikael,  
Chief Administrative Officer

Attachments:

- 1 – Appendix "A" - 2024 Approved Materials List (Consolidated)

# Appendix “A”

*Approved Materials List*

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Approved Material List						
Note: Must use suggested product manufacturer or approved equivalent						
Service	Product	Certification	Material	Specification	Manufacturer	Comments
<b>Fencing</b>						
Acoustical Fencing	PVC Acoustic Fence	AASHTO "Guide Specifications for Structural Design of Sound Barriers"	PVC		Atlantic Industries Limited (AIL)	
	Noise walls	CSA A23.1 and A23.4 35 Mpa at 28 days (min)	Precast concrete		International Fence, Durisol Vinyl Fence	
	Noise walls composite System		Concrete/ Wood Chip		Durisol Incorporated	
	Infill	MOE (minimum Surface density requirement on 20kg/m <sup>2</sup> )		57mm x 130mm T&G, with gaps not exceeding 6mm		
	Horizontal Members			not exceeding 38mm x 140mm		
	Posts			140mm x 140mm structural post and timber		
	Stain			Latex solid stain, minimum of two coats on dry wood, applied during apparatused temperatures		
	Fasteners		Hot Dipped Galvanized steel	Adrox Nails, Bolts, Nuts, Washers, Anchors		
Chain Link Fencing	Fabric and Wire		Steel wire hot dipped galvanized weaving, or electro galvanized	Minimum requirement for zinc coating 0.5kg/m <sup>2</sup> with 38mm wire mesh and 3.4mm steel wire fabric		
	Post and Rails	ASTM Designation A120	Galvanized Steel	Schedule 40 pipe conforming to current specifications for black, hot dipped and zinc coated, welded and seamless pipe		
	Fittings and Hardware	ASTM Designation A152	Aluminum Alloy or Steel DuCille Iron	Frames, braces, cast fitting and other fittings		
Privacy Fence	Wood		Construction Grade Cedar or Approved Pressure Treated	Nails must be Twisted Steel and Zinc Coated		
<b>Parks and Landscaping</b>						
Ground Material	Fibre		Engineered wood fibres minimum 300mm (12") deep		Certified Providers	
	Rubber		rubber		Certified Providers	

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Playground Equipment	Junior Play Structure	CAN/ CSA Standards Z614- Childrens Playspaces and Equipment (most current edition), Accessibility for Ontarians with disabilities act, 2005 and Ontarians with Disabilities Act 2001	Multiple	Neighbourhood Park: 2-3 decks with min. 1 roof, transfer station & stairs, 2 plastic slides – single and dual track, climber, tunnel or bridge between decks, 3-4 activity panels, and talk tube or alternate Community Park: 2-3 decks with min. 1 roof, transfer station & stairs, 2 plastic slides single and dual track, climber, tunnel or bridge between decks, 3-4 activity panels, and tal tube or alternate	Certified Playground Supplier or ABC Inc., PlayPower, Open Space Solutions	
	Senior Play Structure	CAN/CSA Standards Z614 – Children’s Playspaces and Equipment (latest edition) Accessibility for Ontarians with Disabilities Act, 2005 and Ontarians with Disabilities Act, 2001	Multiple	Neighbourhood Park: 3-6 decks with min. 1 roof, transfer station with stairs, accessibility ramp, 2 plastic slides – straight and spiral both open, 3 climbers, rock wall or similar activity, 4-5 activity panels, and sliding pole Community Park: 5-7 decks with min. 1 roof, transfer station with stairs, accessibility ramp, 2-3 plastic slides – straight and spiral both open, 3-4 climbers, rock wall or similar activity, 5-7 activity panels, and sliding pole	Certified Playground Supplier or ABC Inc., PlayPower, Open Space Solutions	
	Activity Panels	CAN/CSA Standards Z614 – Children’s Playspaces and Equipment (latest edition) Accessibility for Ontarians with Disabilities Act, 2005 and Ontarians with Disabilities Act, 2001		Steel bars at ends of ramps, Mix up steel bars, poly windows, activity panels - Provide 40% of activity panels on ground level for wheelchair users, Percussion musical panels permitted in low vandalized areas, (Tic tac toe, Mirror, Little Tikes 7 station panel, Poly windows, Steering wheel)	Certified Playground Supplier or ABC Inc., PlayPower, Open Space Solutions	
	Climbers	CAN/CSA Standards Z614 – Children’s Playspaces and Equipment (latest edition) Accessibility for Ontarians with Disabilities Act, 2005 and Ontarians with Disabilities Act, 2001		All Nets must have a one piece coupling or nut and bolt coupling, Screw couplings are not permitted. All hardware must be have a zinc bath finish or polyester powder coat.	Certified Playground Supplier or ABC Inc., PlayPower, Open Space Solutions	

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	Decks	CAN/CSA Standards Z614 – Children’s Playspaces and Equipment (latest edition) Accessibility for Ontarians with Disabilities Act, 2005 and Ontarians with Disabilities Act, 2001	Steel with plasticol coating	Others upon township approval.		
	Slides	CAN/CSA Standards Z614 – Children’s Playspaces and Equipment (latest edition) Accessibility for Ontarians with Disabilities Act, 2005 and Ontarians with Disabilities Act, 2001	poly	Must be attached to play structure, Poly slide are preferred, Slide tube are not acceptable.	Certified Playground Supplier or ABC Inc., PlayPower, Open Space Solutions	
	Spring/ Spinning Toy	CAN/CSA Standards Z614 – Children’s Playspaces and Equipment (latest edition) Accessibility for Ontarians with Disabilities Act, 2005 and Ontarians with Disabilities Act, 2001		Neighbourhood parks: require minimum of 2 units. Community park: minimum of 4 units. Shop drawings should be submitted for township approval.	Certified Playground Supplier or ABC Inc., PlayPower, Open Space Solutions	
	Swings	CAN/CSA Standards Z614 – Children’s Playspaces and Equipment (latest edition) Accessibility for Ontarians with Disabilities Act, 2005 and Ontarians with Disabilities Act, 2001	rubber	Neighbourhood Parks: minimum of 2 toddler seats, 4 youth seats and 1 accessible seat. Cummunity Park: 5 toddler seats, 6 youth seats and 1 accessible seat. All must be rubber unless otherwise approved by township. All swings must be install per manufactor specifications.	Certified Playground Supplier or ABC Inc., PlayPower, Open Space Solutions	
<b>Sanitary</b>						
Sanitary Sewer	Sewer main	CSA B182.2	PVC	DR 35, Rubber gasket in integral bell and spigot joints, green in colour and Knor-n-seal gaskets on all manholes	IPEX, Royal Pipe, NAPCO, Rehau, Diamond Pipe	
	Connection tees	CSA B182.2	PVC	DR28, Injection molded or factory-fabricated gasket tees	IPEX, Royal Pipe, NAPCO, Rehau, Diamond Pipe	
	Service Laterials	CSA B182.2	PVC	DR28, green in colour with rubber gasket in integral bell and spogot joints	IPEX, Royal Pipe, NAPCO, Rehau, Diamond Pipe	
	Test Fittings	CSA B182.2 or CSA B70	PVC or Cast Iron	Straight test fitting at property Line	IPEX or Crowie	
	Verical Risers	CSA B182.2	PVC	For use with sewer main	NAPCO	
	Service Saddles			For use as a new service conection to an existing municipal sewer only		

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	Maintenance Holes	CSA A257.4	Concrete	Rubber Gaskets type joints certified to CSA A257.3, "Kor-n-seal" gaskets on all pipes entering manholes, Frame and grate as per OPSD- 4001.010 (Closed Cover) with the date cast into the cover and Precast concrete gradeadjustments units with Moduloc tape between layers or Self leveling cast iron riser rings for final adjustment.	Decast	
<b>Seed Mixes and Tree Species</b>						
Seed	undeveloped lands			45% Creeping Red fescue, 30% kentucky Blue Grass and 15% Perennial Rye Grass and 10% wildflower mix		
	Stormwater Ponds			Stormwater Pond Native Seed Mixture	OSC	
	Creek Banks			Creek Banks Native Seed mixture (Wet Meadow Type)	OSC	
Trees	Boulevard Trees			Silver Maple, Red Maple, Sugar Maple, Burr Oak, Red Oak, Scarlet Oak, White Oak, Pin Oak, Linden and Honey Locust		

	Park Trees/ Bushes			Alternative Leaf Dogwood, American Beech, American Chestnut, American Elm, American Mountain Ash, Balsam Fir, Balsam Poplar, Basswood, Bitternut Hickory, Black Ash, Black Cherry, Black Maple, Black Oak, Black Spruce, Black Walnut, Black Willow, Blue Beech, Bur Oak, Butternut, Chinquapin Oak, Chokecherry, Eastern Flowering Dogwood, Eastern Hemlock, Eastern Redcedar, Eastern White cedar, Eastern white pine, Gray Birch, Green/red Ash, Hawthorns, Iron Wood, Jack pine, Largetooth Aspen, Manitoba Maple, Northern hackberry, Peachleaf willow, Pin cherry, Pin oak, Red maple, Red mulberry, Red oak, Red pine, Red spruce, Rock elm, Sassafras, Serviceberries, Shagbark hickory, Showy mountain-ash, Silver maple, Slippery elm, Striped maple, Sugar maple, Swamp White oak, Sycamore, Tamarack, Trembling aspen, White ash, White Birch, White oak, White spruce, Yellow birch		
<b>Signage</b>						
	Street Name Signs	Ontario Traffic Manual Book 2		Green sign with white lettering	Ceder Signs Inc.	
	Traffic Signs	Ontario Traffic Manual Book 2		Per MTO guidelines	Ceder Signs Inc.	
	Posts	Ontario Traffic Manual Book 2	Galvanized Steel Posts	"u-channel", embedded 0.9m in the ground, two piece break away		
<b>Stormwater</b>						
Stormwater system	Sewer main	CSA B182.2	PVC (300mm to 450mm)	DR35, Rubber gasket in integral bell and spigot, Green in colour	IPEX, NAPCO Royal Pipe & Fittings, Diamond Plastics	Do we need more detail here?
		CSAA257.2	Concrete	Rubber gasket type joints certified to CSA A257.3	OCPA Plant Prequalified Member	
		CSA B182.4	PVC	PVC Profile Pipe	NAPCO, Royal Pipe & Fittings, IPEX	
		CSAB182.13	SaniTite HP pipe	ASTM F2764, dual gaskets, compatible with INSERTA TEE connections	ADS	

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		CSA B182.6-02	HDPE(300mm to 600mm)	320 kPa pipe stiffness, Rubber gasket in integral bell and spigot joints	Armtec	
	Connection tees	CSA B182.2	PVC	DR28, Injection molded (100mm Dia. to 300mm Dia) or factory fabricated gasketed tee (375mm dia. And larger)	IPEX, NAPCO Royal Pipe & Fittings	
		CSA A257.2,3	Concrete	Factory-fabricated tee	OCPA Plant Prequalified Member	
		CSA B182.4	PVC	PVC Profile Fittings	NAPCO Royal Pipe & Fittings	
		CSA B182.6-02	HDPE(300mm to 600mm)	Injection molded or factory-fabricated gasketed tee		
	Service Laterals	CSA B182.2	PVC	DR28, Rubber gasket in integral bell and spigot joints, White or Grey in colour	IPEX, NAPCO Royal Pipe & Fittings, Diamond Plastics, Rehau	
	Test Fittings	CSA B182.2	PVC	Bootjack fitting for double connections and Straight test fitting at property line	IPEX	
		CSAB70	Cast Iron	Bootjack fitting for double connections and Straight test fitting at property line	Crowle	
	Catchbasin Leads	CSA A257.2	Concrete	Rubber gasket type joints certified to CSA A257.3	OCPA Plant Prequalified Member	
		CSA B182.2	PVC	DR 35, Rubber gasket in integral bell and spigot joints		
		CSA B182.6-02	HDPE	320 kPa pipe stiffness, Perforated, with Geo-textiles sock filter	Armtec	
		CSA B182.4	PVC	PVC Profile Fittings	NAPCO Royal Pipe & Fittings, IPEX	
	Subdrains	OPSS 1840	HDPE	210 kPa pipe stiffness, perforated, with Geo-textile sock filter	Armtec	
		ASTMF405,AASHTO-252, BNQ3624-115, ASTM F667, AASHTO M294	Corrigated High Density Polyethylene		ADS/ Hancor, Soleno Inc, DMX Flextube	
		ASTM F405	Polyethylene Pipe	100mm to 600mm	DMX Plastics	
	Maintenance Holes	CSA A257.4, ASTM C-478, OPSS 1351, OPSD	Concrete	Rubber gasket type joints certified to CSA A257.3, use precast concrete grade adjustment, units with Moduloc tape between layers or self-leveling cast iron riser rings for final adjustment	OCPA Plant Prequalified Member	

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		CSA A257.4, ASTM C-478, OPSS 1351	Prebenched Concrete	for 200mm and 250mm inlet and outlet pipes only	Con Cast Pipe	
	Frames and Grates	OPSS1850, OPSD 401.01- Type A- no lugs	Cast iron	Storm grate as per OPSD 401.010(closed cover) with date and "STORM" cast into the cover	Bibby-Ste-Croix Star Pipe Canada Inc.	
		OPSS1850	Ductile Iron	Adjustable/Autostable Frame -C50M-ONT-SELFLEVEL-MC401010243	Bibby-Ste-Croix Star Pipe Canada Inc.	
	Catchbasins	OPSS 1351, OPSD 702.040, CSA A257.4	Concrete	Use Precast concrete grade adjustment units with Moduloc tape between layers, frame &Grate as per OPSD 400.020 or 400.1000, Rear yard catchbasin frame & grate as per OPSD 400.120	OCPA Plant Prequalified Member or IPEX	
	Safety Platform	OPSD 404.020		Must be installed in any maintance hole greater than 5 meters in depth		
	Culverts	CSA A257.2	Concrete		OCPA Plant Prequalified Member	
		CSA G401	CSP	Galvanized, Wall thinkness as recommended by supplier to meet H2O loading requirement, Must meet for exceed 2mm for all road crossings and 1.6mm for entrances		
		ASTM F894, ASTMD3350/AASHTOM294, CSA B182.6-02	High Density Ployethylene (HDPE)	Minimum requirement of 320 kPa Pipe stiffness, Smooth interior Wall	Infra Pipe Solutions, Armtec, Soleno Inc, ADS/Hancor	
	Headwall and End wall			Upon Approval by the township	OCPA Plant Prequalified Contractor	
	Adjustment Units	CSA A257.4, OPSS 1853	Concrete	Precast concrete grade adujstment units with Moduloc Tape between layer	OCPA Plant Prequalified Contractor,	
			Ductile	Riser Rings(only to be used upon township approval)		
		OPSD 704.011	HDPE	IPEX Lifesaver Adjustemnt Units	IPEX	
	Adaptor couplings				Rollee, Mission Rubber Co., Preper-PLS	Per recomondation
	Repair Clamps	CSA B602			Rollee, Mission Rubber Co., Preper-PLS, Cambridge Brass	
<b>Street Lights</b>						

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Road Illumination	Street Light	DLC qualified, IDA compliant		Arch-N Archeon Nano, colour: Grey, other Colours may be approved upon request.	Cooper	
<b>Traffic Signals</b>						
		CSA Standards, MTO Book 12				Traffic signal submissions must be made to the Township for approval on a case-by-case basis and must adhere to the latest Ministry of Transportation Ontario (MTO) standards, TAC standards
<b>Water Distribution</b>						
	Watermain	AWWA C900 (Pipe 100mm to 300mm), AWWA C905(>=350mm), CSAB137.3	PVC Pipe	DR18, Class 150, Rubber Gasket in integral bell and Spigot joints, must be Blue in Colour, 6m pipe length, CI OD	IPEX, Royal Pipe, NAPCO, Rehau, Diamond Pipe, National Pipe	
		AWWA C906, CSA B137.1	Polyethylene	DR17, Class 100, Therma butt fusion jointing of pipe, CI OD	KWH Pipe	
		AWWA C909, CSAB137.3.1	Molecularly Oriented Polyvinyl Chloride (PVCo)	Push-on joint, Colour: BLUE, 6.1m pipe length	IPEX, Westlake pipe& fittings	
	Water Services	AWWA C901-78, CSA B137.6	Polyethylene	Series 160	IPEX	
		ASTM B88-88	Copper	Type K, Heavy wall, Soft copper, Horizontal Gooseneck	Great Lakes Inc.	
		AWWA C904, ASTM F876/F877, ASTM F2080, CSA B137.5, NSF-14, NSF 372	Cross-Linked Polyethylene	Cross linked Ployethylene (PEX) tubing, Municipex valves and fittings conform with AWWA C800.	Rehau	
	Watermain Fittings	AWWA C110/A21.10, AWWA C153/A21.53, AWWA C111/A21.11, ASTM A536, NSF 61, NSF 372, AWWA C115/ A21.15, ANSI B16.1, AWWA C104/A21.4	Ductile Iron + PVC	Glands cement lined seal coat to AWWA C104/A21.4	Tyler Union/ Biddy, Sigma, Star	
		AWWA C900, AWWA C907, AWWA C905, NSF-61, CSA 137.2 & 137.3, ASTM D1784, ASTM F477, ASTM D3139	Polyvinyl Chloride (PVC)	Push on Joint CSA B137.2 (100mm to 200mm only), must have integral joint restraint capable, Blue Brute Fitting (100mm to 300mm), Ipex Centurion Fitting (350mm to 600mm), Injection molded	IPEX, Westlake pipe& fittings, Harrington Corp, Utility Supply Corporation	
		AWWA C219, AWWA C111/A21.11, AWWA C153/A21.53, ASTM F1476, AWWA C227	All Pipe Material	Multi/joint to connect different pipe materials together with similar OD ranges	George Fischer, Romac, Smith-Blair, Ford, Mueller	

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		AWWA C800-05, AWWAc800-12, AWWA C800-21	Underground Water service lines and valves, Philmac Compression Fittings	12mm to 50mm	IPEX, Cambridge Brass, Ford, Mueller, Romac, McDonald MFG	
Watermain Valves	Gate Valve	AWWA C509, AWWA C515, AWWA C111/A21.11, ASTM A536, AWWA C550, ASTM A126, NSF-61	Gate Valves ( Resilient Seated Gate Valve M.J. x M.J.)	Non-rising stem and 50mm square operating nut, Open counter clockwise, Resilient seat gate, Epoxy coating internal and exterior per AWWA C550, Mechanical Joints with Restrainers, Bond breaker between concrete support and valve body, Bond breaker between concrete support and valve body, Stainless steel bolts	Mueller, AVK, McWade	
	Tapping Valve	C509, ASTM A536	Resilient Seated Valves Tapping	Flange x M.J. 150mm to 300mm, open counter clockwise, 52mm Square nut, Epoxy coated	Mueller, AVK, McWade	
	Butterfly Valve	AWWA C504, AWWA C516, NSF 61, NSF-372		Greater than or equal to 750mm only	Pratt, Crispin Valve	
	Air Release Valve	AWWA C512, ASTM A126 Class B, ASTM D429, AWWA C515, AWWA C550, ASTM A126, AWWA C606, NSF 61	Air Release Valve combination/ Direct Bury	I.P. Thread x I.P. Thread (ball type) 150mm Cover	Cla-Val, Val-Matic, A.R.I, APCO	All air valves are required to be installed in vaults to facilitate ease of service, unless an alternative arrangement is approved by the Township
	Pressure Reducing	AWWA C510, AWWA C530, ASTM A216, ASTM A536, ASTM B148, ASTM B62, NSF-61	Pressure Reducing and Check Valve	Flange x Flange, Epoxy Coating internal and external as per AWWA C116/A21.16	Cla-Val, Singer	All air valves are required to be installed in vaults to facilitate ease of service, unless an alternative arrangement is approved by the Township
	Backflow Prevention	AWWA C511, CSA B64.4	Reduced Pressure Principle Back Flow Preventer		Watts, Val-Matic	The selection of backflow preventers must be determined on a case-by-case basis and requires Township approval prior to installation. In certain instances, a Double Check Valve Assembly may be approved.
	Swing Valve	AWWA C508	Swing Check Valve	Gravity operated, broze or stainless steel disc facing, stainless-steel bolts, epoxy coated interior and exterior	Muller, Clow, Val-Matic	
	Valve Stem Extension		Valve Stem Extensions	Required for additional; depth over 1.7M; 52mm top operation c/w set screw;	Bibby-Ste-Croix, Concord/Diagle, Mueller Canada	

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Fire Hydrants	Hydrant	AWWA C502, AWWA C509-01, ASME B16.1 OPSS 44, CAN/ULC-S520-07	1.98m barrel length, Post type dry barrel compression shutoff with ball valve closing with flow, opening counter clockwise, M.J. elbow, 125mm valve ball, 2 side outlets with 2.5" CSA standard hose nozzle threads, 1-4' Storz pumper nozzle outlet, Breakaway flange, Self draining, PVC DR18 Hydrant laterials, Bond breaker between concrete support and fittings, Hydrant colour shall be Yellow. Top and side nozzle caps shall be painted based on hydrant flows or Hydrant Flow Idenitification disks are to be attached on both caps. (Front storz nozzle to remain black), Anti tamper device	Mueller, Tremclad- Benjamin Moore Paint	
	Hydrant Marker		48" in height flourescent yellow, installed on the side port		Installed on side port or affixed to rear bolt of traffic flange

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