



BURNSIDE

Welcome to Public Information Session #2 Revitalization of Berford Street Project Update

Thursday, January 23, 2020 from 6:00 p.m. to 8:00 p.m.



We're Moving Forward from Our Vision to Reality

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Project Limits

- Original Limits
- Extended Limits to Address Additional Storm & Sanitary Sewer Requirements

Road Design Objectives Achieved!

OBJECTIVES	RESULTS
To implement streetscape and urban design improvements.	Ideas incorporated from the Concept Design Document (2016) and input from the BIA; Chamber of Commerce; the Public; and Council.
To promote traffic calming.	Curb extensions at intersections and mid-block pedestrian crossings; road appears narrower by adding curbs to delineate through lanes from parking lanes; center islands; pavement markings; and landscape features.
To maximize the number of on-street parking spaces in conjunction with the new road and streetscape design.	Improved parking to maximize accessibility resulting in seven fewer parking spaces but expect to make up parking on the side streets.
Enhance safety for pedestrians.	Remove existing barriers including steps in sidewalks; incorporate accessible ramps and tactile plates at all pedestrian crossings; and design an unobstructed path for pedestrians to improve overall access and meet current AODA requirements.
To improve traffic operations at intersections.	Design new traffic signal upgrades at Frank Street, George Street and William Street; and added left-turn lanes at all major intersections including Mary Street to improve traffic flow.
To improve surface drainage.	Improved road and sidewalk grades; and added catch basins to reduce ponding.
To accommodate access for maintenance/emergency/service vehicles and trucks.	Modified streetscaping at intersections to improve large vehicle turning movements.
Upgrade streetlighting.	Design includes improvement to overall lighting levels using dark sky friendly lighting to reduce light pollution and energy cost; and upgrades include decorative poles and underground wiring.



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Underground Infrastructure Objectives Achieved!

OBJECTIVES	RESULTS
To Improve Storm Sewer System	Redesigned sewer network to current standards and regulations to improve efficiency including an oil/grit separator (OGS) as required by the Grey Sauble Conservation Authority.
To Improve Sanitary Sewer System	Redesigned sewer network to current standards and regulations to improve efficiency; deeper mainline sewer to allow for future basement connections where possible.
To Improve Watermain System	Redesigned watermains to current standards and regulations to improve efficiency and to increase fire protection by adding hydrants.
Relocate and Upgrade Utilities	Coordinating the relocation of existing utilities and installation of new conduits for future use, e.g., fiber-optic cable, gas main relocation to accommodate the OGS on Division Street.
Relocate Hydro	Bury overhead hydro lines.
Upgrade Servicing to each Property	Improve sewer and water services; and hydro services to property line.



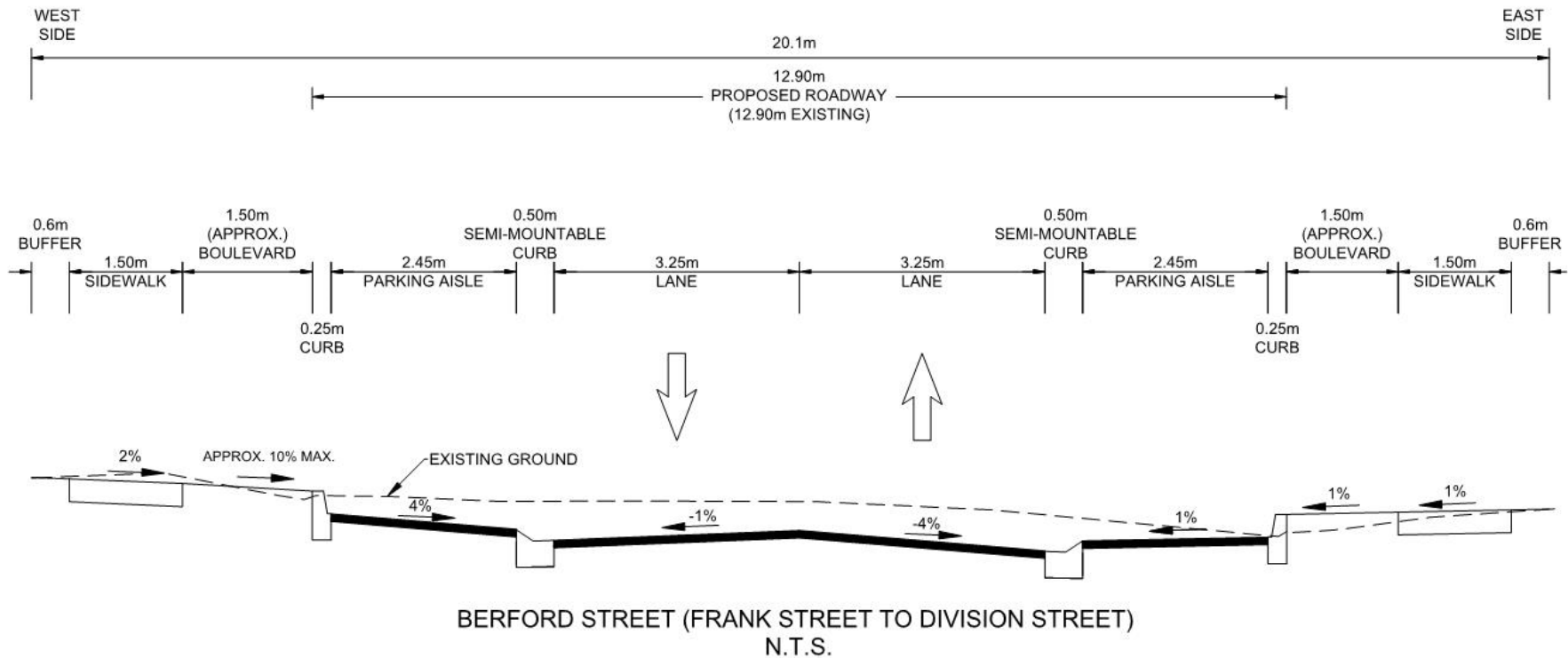
Major Design Challenges Overcome

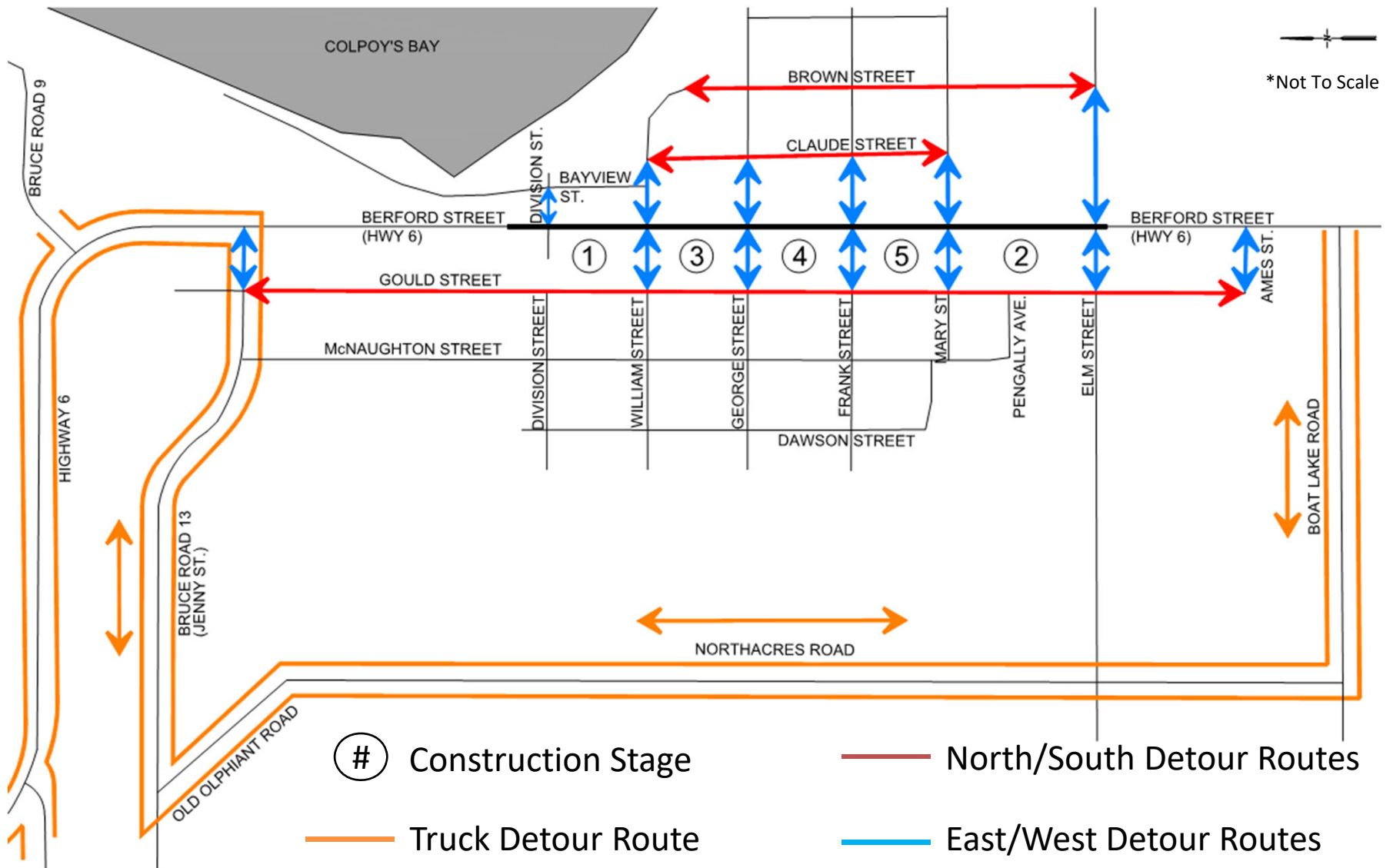


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Typical Cross Section





Traffic Detour Routes During Construction



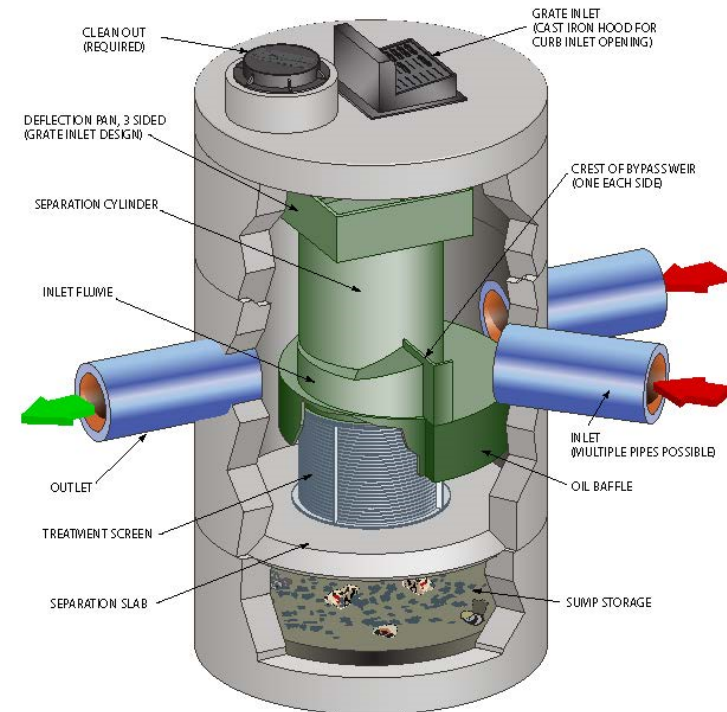
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Oil Grit Separator (OGS)

How It Works!

1. Stormwater runoff from parking lots; driveways; roads; and snowmelt containing contaminants such as oils, sand, garbage, plastics and other debris, flow into the OGS via the inlet pipe.
2. The OGS traps these contaminants from the stormwater and separates them using a swirling motion inside the Separation Cylinder.
3. The treated water exits the system via the outlet pipe.
4. By capturing these contaminants and pollutants it will prevent them from entering Colpoy's Bay.
5. An OGS requires frequent inspections; maintenance; and cleaning so it does not become clogged with the materials that it filters from the stormwater.
6. The OGS only removes suspended solids and oils. The OGS does not provide specific treatment of viral or bacteriological contamination.



Streetscape Design



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Berford Street - Mary St to Frank St

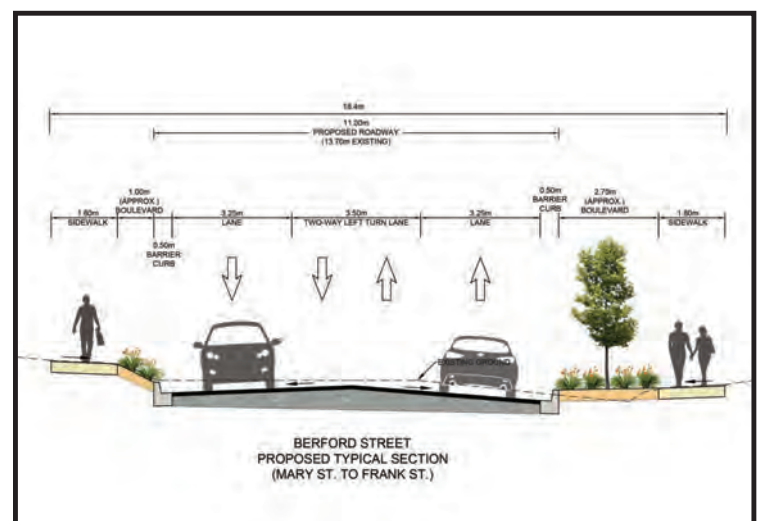


streetscape concept

- Decorative Paving
- Decorative Guardrail
Rock Feature
- Decorative Paving
- Decorative Guardrail
and Planting
- Bike Rack (typical)
- Low shrub planting
- Street Tree (typical)
- Rock Feature
- Existing Trees



key plan



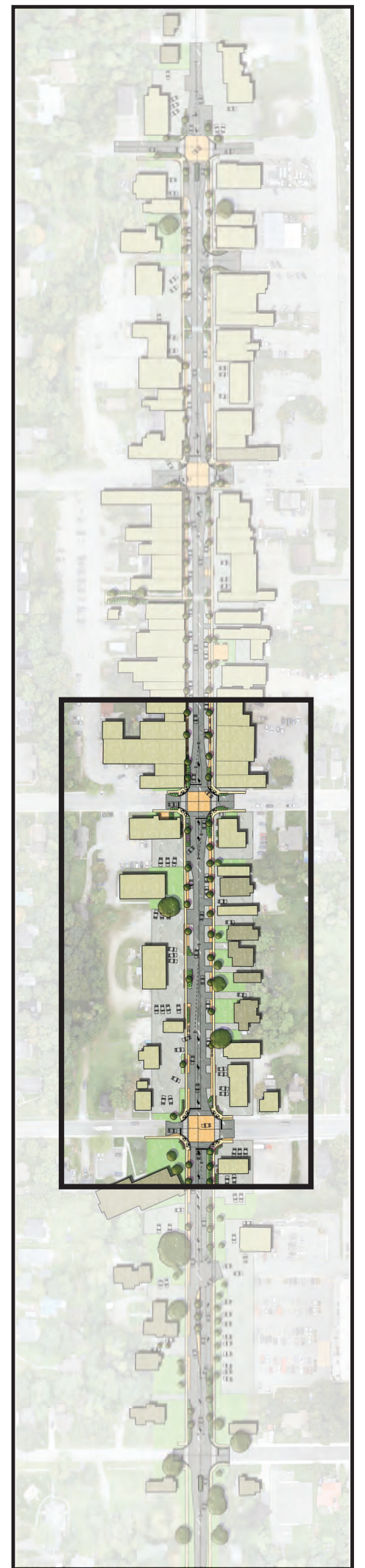
typical section - Mary St to Frank St

Berford Street - Frank St to George St



streetscape concept

- Rock Feature
- Decorative Paving
- Bike Rack (typical)
- Shelter and Seating
- Street Tree (typical)
- Decorative Guardrail
- Low shrub planting
- Decorative Paving
- Rock Feature



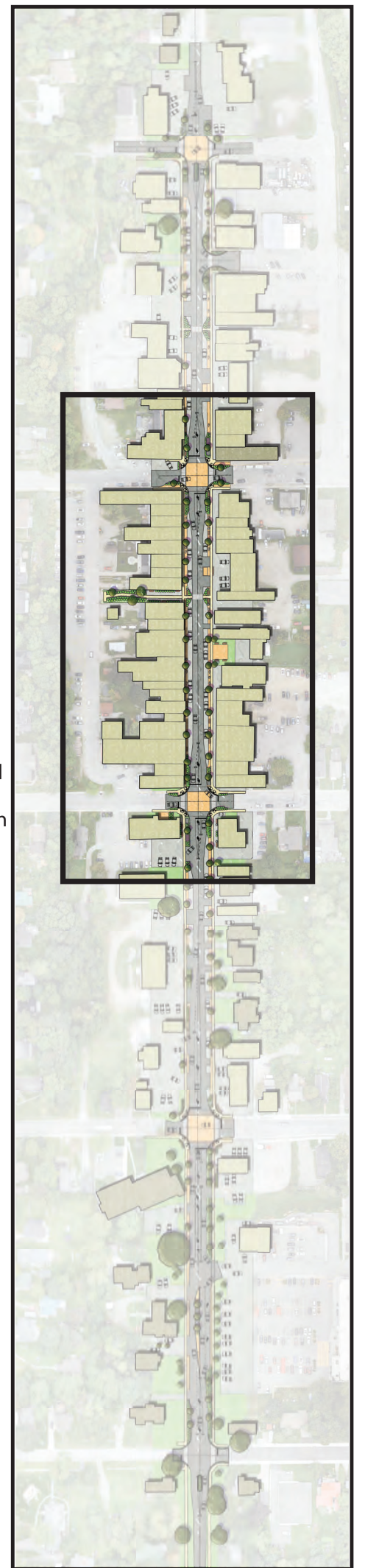
key plan

Berford Street - George St to William St

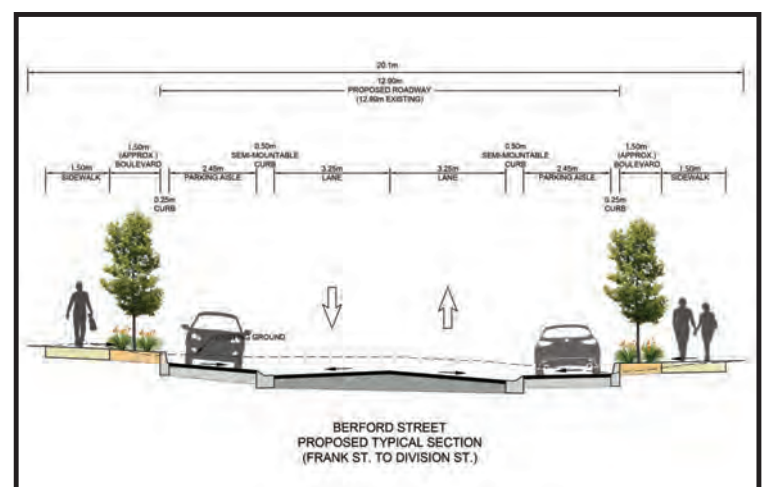


streetscape concept

- Street Tree (typical)
- Shelter and Seating
- Rock Feature
- Decorative Paving
- Rock Feature
- Low shrub planting
- Decorative Guardrail
- Enhanced Pedestrian Walkway with benches and planting
- Mid-Block Pedestrian Crossing
- Bike Rack (typical)
- Bench
- Decorative Paving
- Rock Feature



key plan

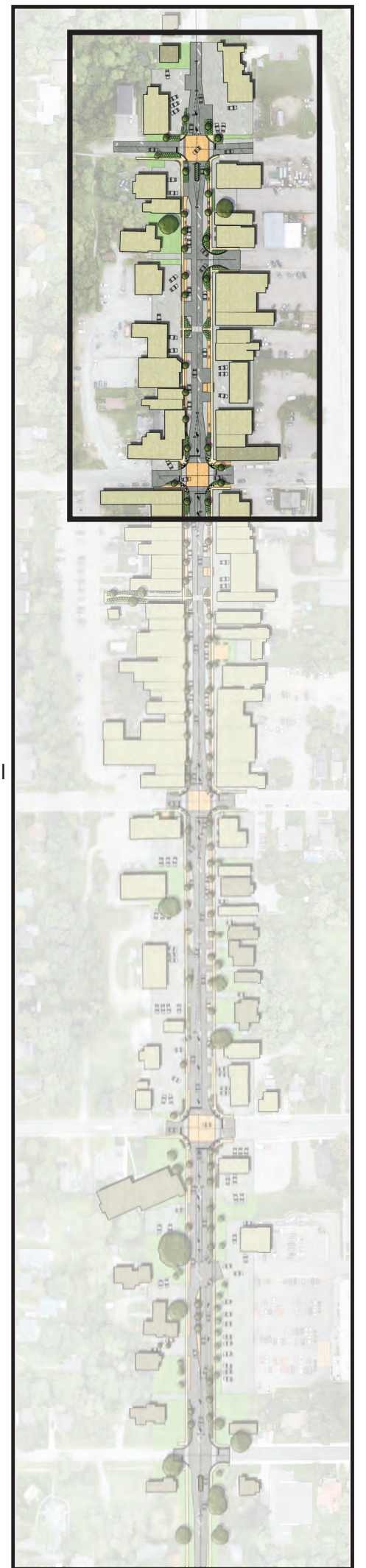


Berford Street typical section

Berford Street - William St to Division St



- Rock Feature and Planting
- Decorative Paving
- Rock Feature
- Low shrub planting
- Decorative Guardrail
- Street Tree (typical)
- Bike Rack (typical)
- Mid-Block Pedestrian Crossing
- Bike Racks
- Decorative Paving
- Shelter and Seating
- Rock Feature
- Decorative Paving



key plan

streetscape concept

Berford Street - Imagery



typical Berford Street perspective



typical mid-block crossing



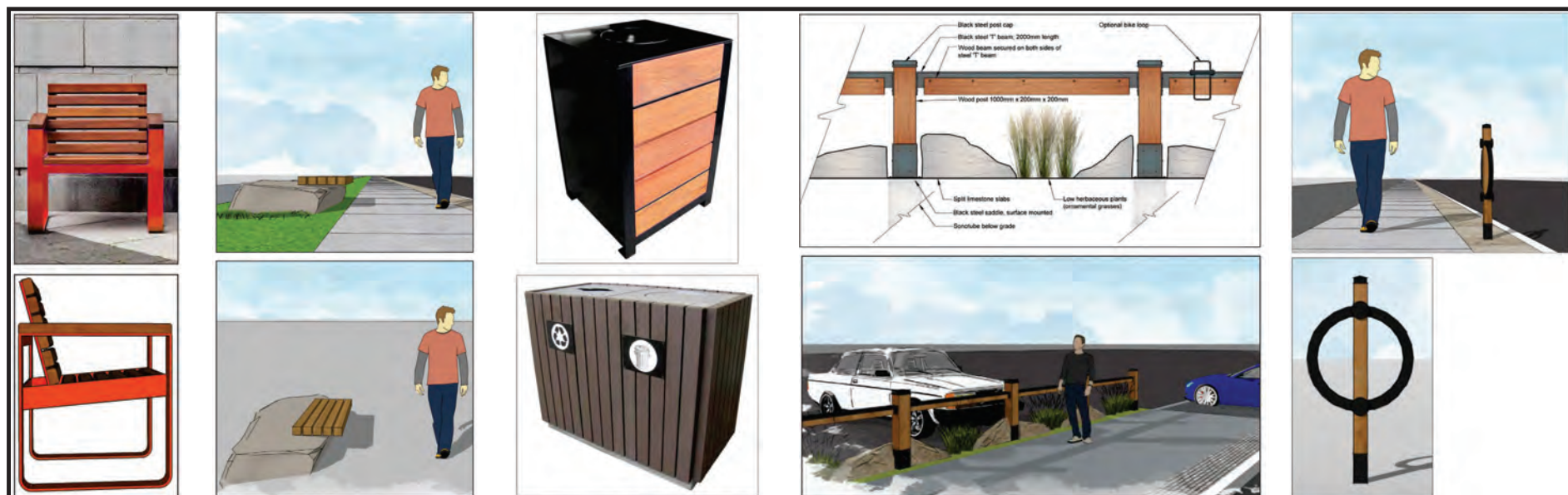
shelter structure and rock feature

images from Downtown Warton Streetscape Improvement Plan, 2016 by Basterfield & Associates



street lighting

images from Downtown Warton Streetscape Improvement Plan, 2016 by Basterfield & Associates



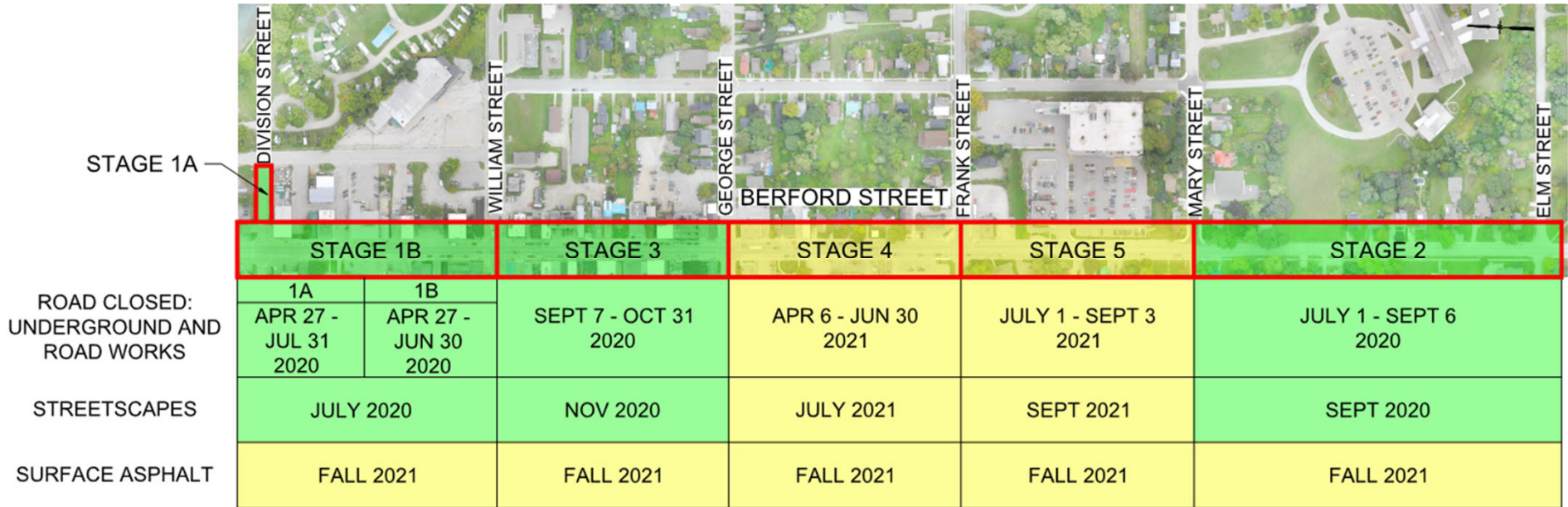
seating, benches, trash receptacle, decorative guardrail and bike racks

images from Downtown Warton Streetscape Improvement Plan, 2016 by Basterfield & Associates

Before



Published on September 11, 2019 | Scott Dunn, Owen Sound Sun Times



Berford Street Construction Staging Plan 2020-2021

Example Signage and Pedestrian Access



Next Steps

	Task	Target Date
1	90% Design Completion	Early February 2020
2	Burnside Presentation to Council	February 18, 2020
3	Design Completion	Late February 2020
4	Contract Tendering Period	March 2020
5	Secure Design Approvals	March/April 2020
6	Pre-construction Meeting with Businesses	April 2020
7	Construction of Stages 1, 2 & 3	April 27, 2020 to Fall 2020
8	Construction of Stages 4 & 5	April 6, 2021 to Fall 2021
9	Surface Asphalt for Stages 1 to 5	Fall 2021
10	MTO Funding Agreement Deadline for Completing the 'Big Dig'	March 31, 2022