



The City of Traverse City

Communication to the City Commission

FOR THE CITY COMMISSION MEETING OF APRIL 16, 2018

DATE: APRIL 12, 2018

FROM: ^{*MC*} MARTY COLBURN, CITY MANAGER

SUBJECT: 2017 ANNUAL REPORT FROM THE ENGINEERING
DEPARTMENT

At the meeting on Monday evening, City Engineer Timothy Lodge will present the Commission with the 2017 Annual Report of the Engineering Department.

MC/kez

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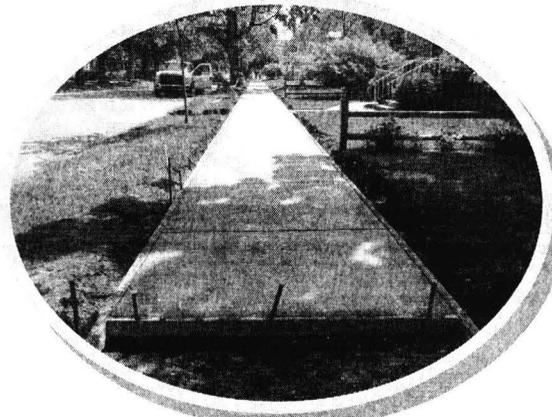
copy: Timothy Lodge, City Engineer

ENGINEERING DEPARTMENT

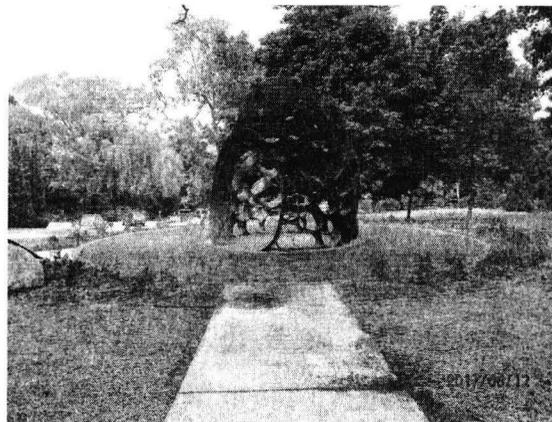
Engineering Department Overview

The work performed by the Engineering Department includes utility reviews in conjunction with land use, right-of-way permits, storm-water and soil erosion permits, along with maintaining historical information, traffic counting, studies and design, construction engineering and contract administration work related to various service areas. The Department maintains historic records for City utility locations including sanitary sewer, watermain and storm sewer. The Department participates and works in several areas and is involved with projects identified in the Public Improvement Plan. These activities are listed below.

- Ordinance Compliance
- Economic Development Projects
- Regional Bridge Council and Bridge Scour Committee (MDOT)
- Regional Transportation Planning and Traffic Assessment (TTCI)
- Sidewalk Improvements
- Bike Paths and Trails
- Street Reconstruction and Resurfacing
- Storm Water Quality Sewer and Water Systems
- Budgeted Capital Improvements
- Bridge and Dam Inspections
- City Infrastructure Projects
- Grand Traverse Commons Infrastructure
- Bayfront Improvements



2017 Sidewalk Project



2017 Bryan Crough Memorial Project

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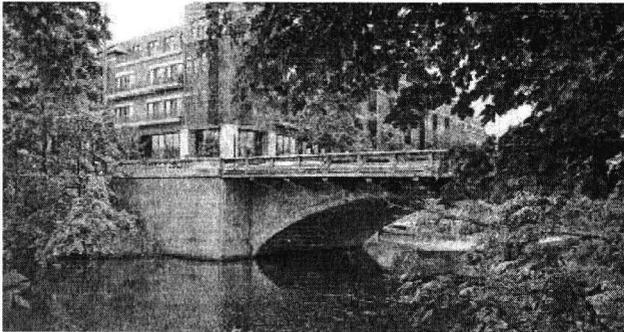
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Designed Projects

South Cass Street Bridge

The rehabilitation of the South Cass Street bridge includes repairing existing earth filled concrete arch and restoring concrete sidewalk and aesthetic balustrade railing on existing foundations. MDOT crash tested and approved the bridge railing detail painted black along the sidewalk edge with histor-

ic balustrade pedestrian railing. A storm water treatment was installed in 2007. The repairs will create an extension of the traditional downtown Traverse City streetscape elements to the Riverwalk access stairs in the southwest quadrant, including pedestrian scale lighting.



West Front Street Bridge

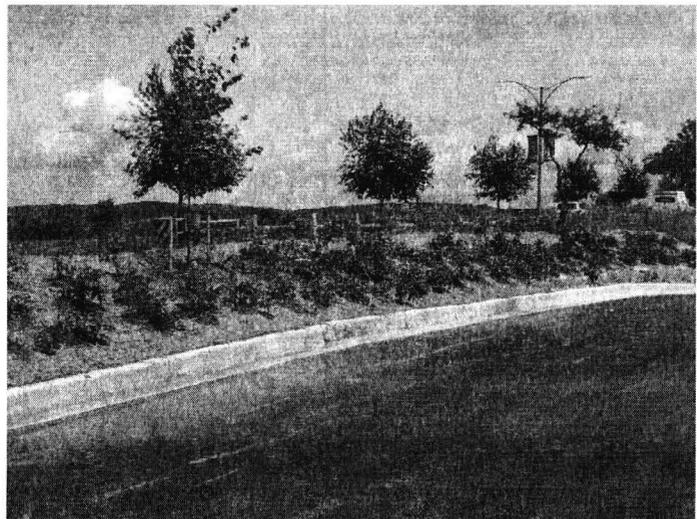
The West Front Street bridge project will include replacing the existing bridge and its foundation. The length will be increased from 58' to 65'. This project will also extend the traditional downtown streetscape elements to Hall street, including pedestrian scale lighting and a mid-block cross walk on the east side. MDOT

crash tested and approved the bridge railing detail painted black with the aesthetic treatment at the ends and mid-span. A pedestrian railing will be included when approaching the bridge. Access steps in the north-east quadrant will lead to the boardwalk beneath the east side of the bridge.



Project Involvement

- Boardman River Boat Launch (Lot D)
- 8th Street Bridge Rehabilitation
- West Front Street Bridge Replacement
- Cass Street Bridge Rehabilitation
- West Front Street Reconstruction
- Clinch Park Improvements Project
- Paving and Resurfacing
- Park Street Streetscape
- East Front Street Streetscape
- Sidewalks
- Safe Routes to School
- Hickory Hills Recreation Improvements
- Clancy Park Improvements Project
- FishPass at Union Street Dam
- 8th Street North Alley
- Lake Avenue Streetscape and SID

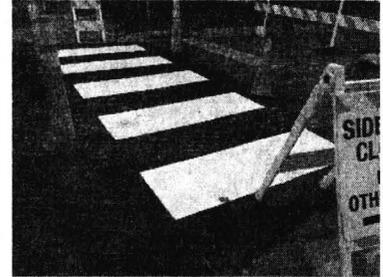
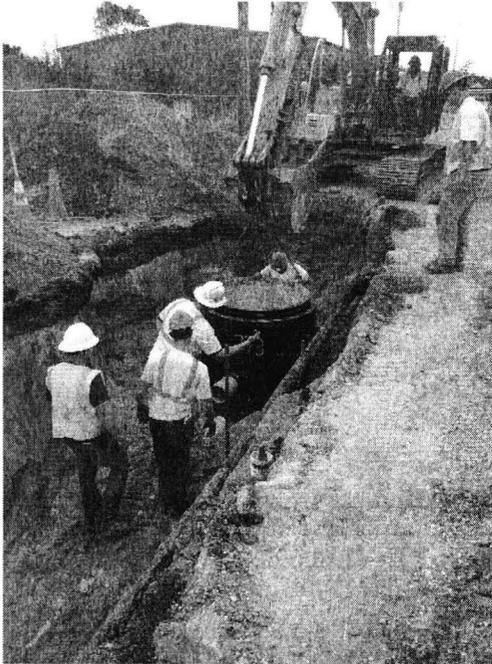


Lot D Boardman River Boatlaunch landscaping

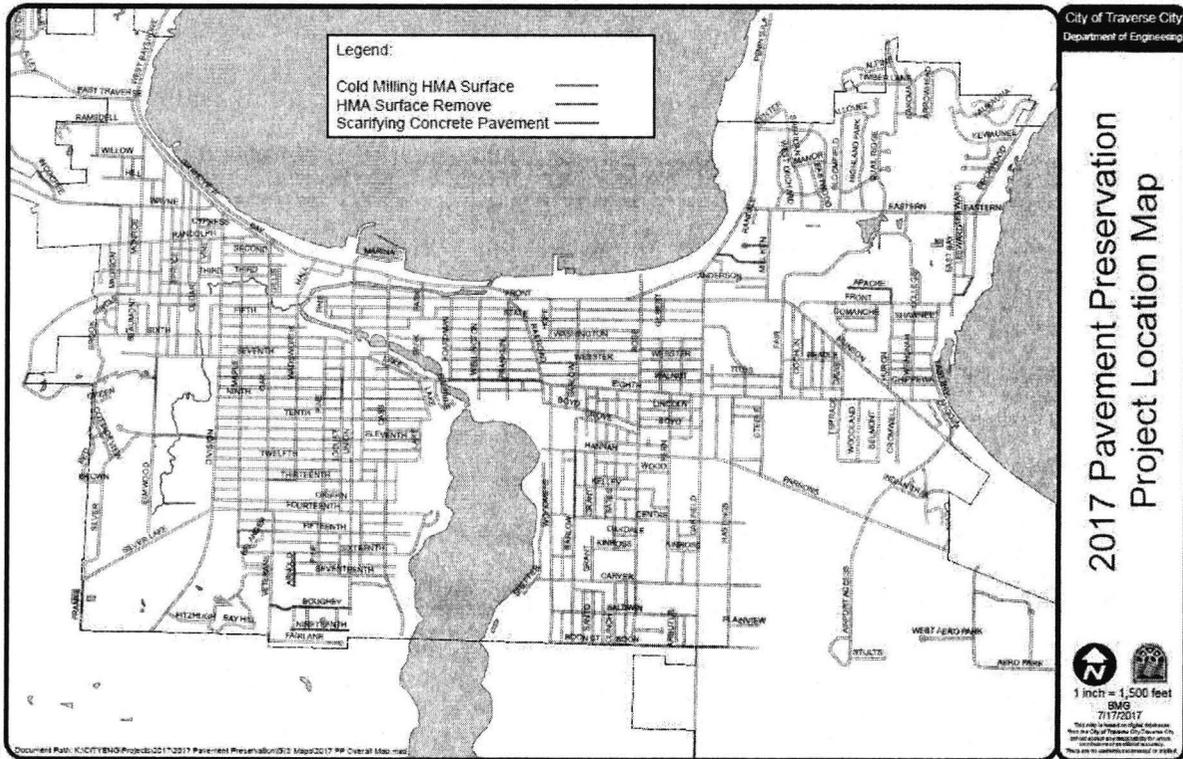
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Projects Completed

2017 Station Street Project

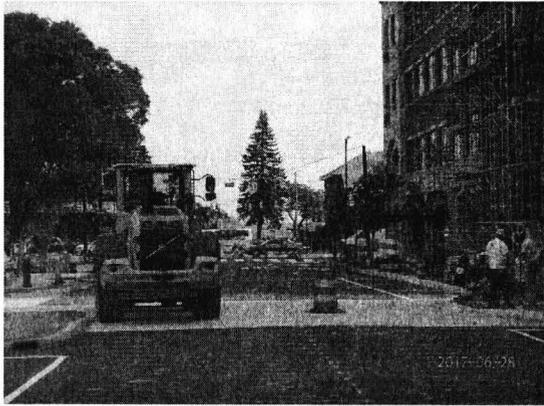


2017 Pavement Preservation Project



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Projects Completed



Park Street Streetscape

The Park Street Streetscape project is a multiple phase project, stretching over different streets. On the Park Street North portion of the alley, some of the improvements include irrigation, phone and electrical utilities, brick pavers, and concrete work.

On the South Portion of the Park Street alley, the same improvements from the North side were imple-

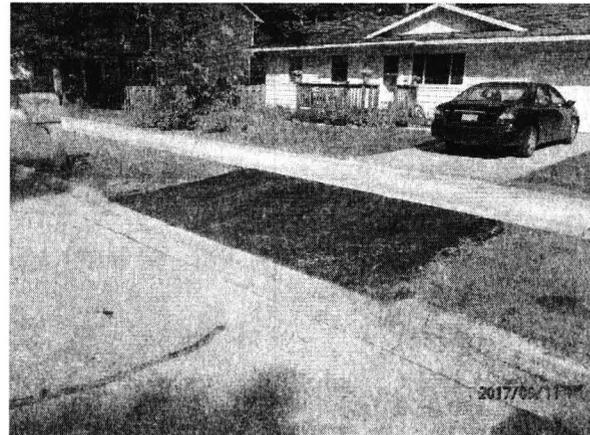
mented on the South. In addition, there was asphalt paving on the base and top course.

The Front Street portion of Park street included mobilization traffic control, brick pavers on both side of the streets, and more.

Centre Street Sidewalk Project

From Woodmere Avenue to Fern Street on Centre Street, new sidewalks were constructed. Some steps in this project's process included:

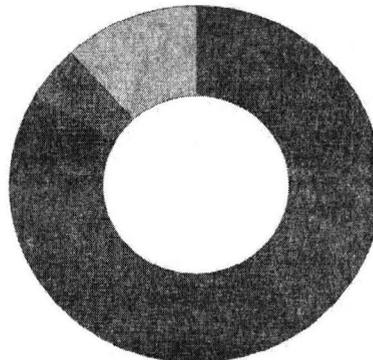
- Mobilization/traffic control
- Tree removal
- Stump removal
- Concrete curb and gutter replacement
- Existing ramps upgraded to ADA Compliant
- Concrete sidewalks
- Site preparation, clean up and restoration
- 4 inch screened topsoil, seed fertilizer and mulch
- Retaining wall construction



Traffic Counts and Studies

An Engineering Department intern gathered Traffic Data from June to September.

- 124 locations were counted for average daily traffic
- 36 locations for speed
- 21 locations for classifications
- 8 locations for pedestrians
- 12 locations for stop warrants
- 1 location for a signal warrant
- Trip timing study



Permits

The pie chart displays the permits issued up to the date of 11/30/17.

■ Right of Way - 332

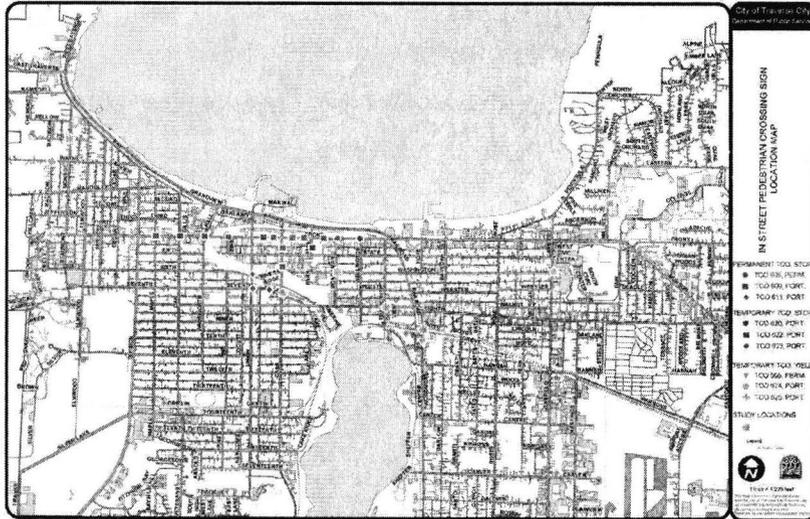
■ Storm Water Run-off Control - 20

■ Soil Erosion - 47

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Projects Completed

In Street Pedestrian Crosswalk Sign Program



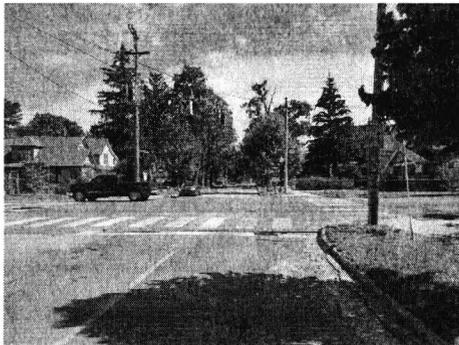
The map above displays where the in-street pedestrian signs are located in the city.

The in-street signs increased the compliance of the local "Stop for Pedestrians" law in the city. The program has expanded to include 25 crossings in 2017, 19 of which are seasonal.



7th Street Contra-flow Bike Lane

The contra-flow bike lane that begins at the intersection of 7th Street/Division Street is second one in the state of Michigan. Bicyclists are able to go East, as the cars are able to go West down the one way street. This gives bicyclists better east-west mobility.



ENGINEERING DEPARTMENT

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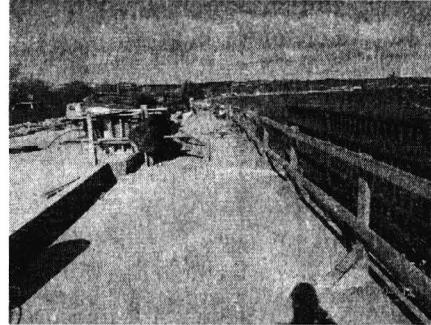
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Engineering and Planning
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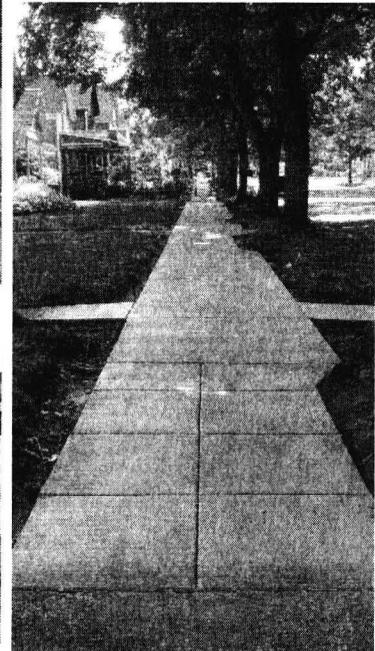
Construction Photos



Murchie Bridge Railing Construction (above)



10th St. Sidewalk Construction (right and above)



W. Front Street: Elmwood Avenue to
Division Construction (above and below)

