Village of Sherman

Stormwater Infrastructure Preliminary Engineering Report

Project No. 1: Concept Plan

January 2020

Green Infrastructure Retrofit Practices

1 Bio-retention bumpouts
Installation of bio-retention bumpouts with curb drops to capture stormwater runoff, for a total coverage of 10,000 SF.

2 Permeable Asphalt Parking
Replacement of existing pavement, for a total coverage of 3,500 SF.

3 Flexible Porous Pavement
Replacement of existing pavement with flexible porous pavement for snow storage and infiltration. Place stormwater street trees with CU structural soil where feasible. 6,500 SF coverage.

4 Concrete Sidewalk
Concrete sidewalks pitched towards flexible porous pavement for infiltration. Install granite curbing with 6” reveal to direct roadway runoff to curb drops.

5 Eastern & Western Village Gateways
Visually notify the driver that they are entering a dense residential area...and to SLOW DOWN!

6 Downspout Disconnections
Installation of rain barrels and stormwater to planters capture and re-use stormwater from downspouts, for a total coverage of 1,060 SF.

7 Public Parking & Trailhead Improvements
Installation of non-porous pavements pitched towards bioretention gardens and enhanced riparian buffer strip along French Creek at existing Chautauqua Rails-to-Trails trailhead.

Site Improvements

8 Pedestrian Crossings
Enhanced crossings at bumpouts provide traffic calming and pedestrian safety.

9 Shared Lane Markings
Install shared lane markings indicating shared space between vehicles and bicyclists.

10 EV Charging Stations
Install electric vehicle charging stations at select location (s) for Climate Smart Community certification.

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