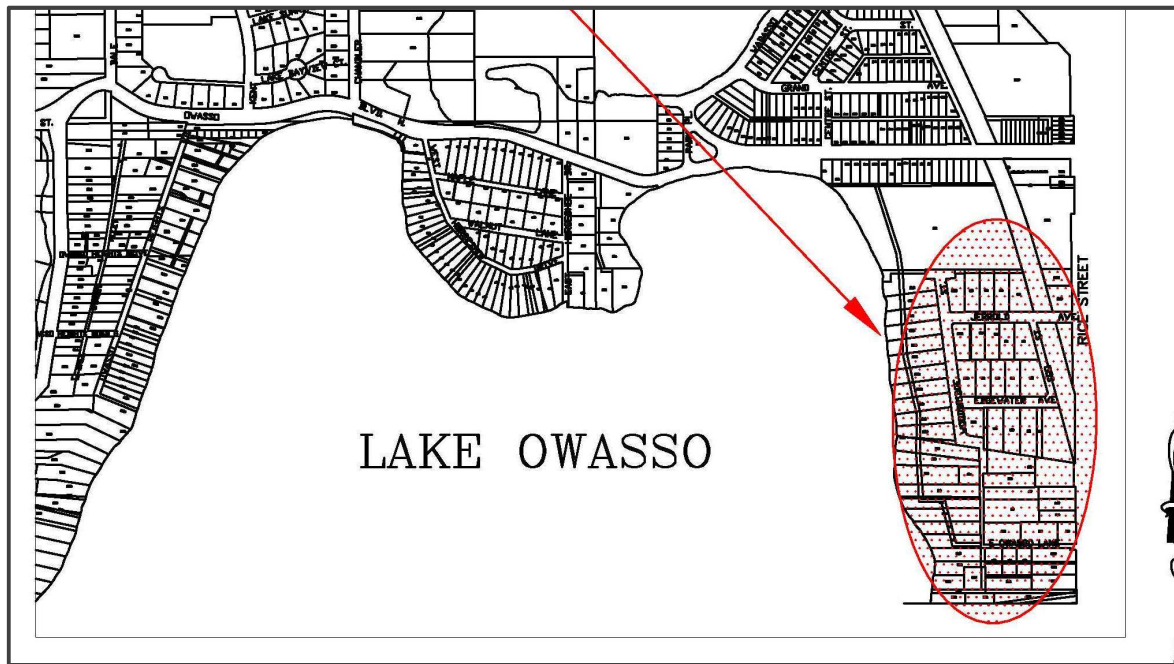


City of Shoreview, MN 2009 Street Reconstruction Project *Woodbridge Neighborhood*



Pavement approx. 1 mile long / 79,000 SF



City of Shoreview, MN
2009 Street Reconstruction Project
Woodbridge Neighborhood

Project Evolution – 3rd Party Endorsements

- ☐ Networking w/ research, state and local officials
 - Educate specifiers
 - Learn about project opportunities

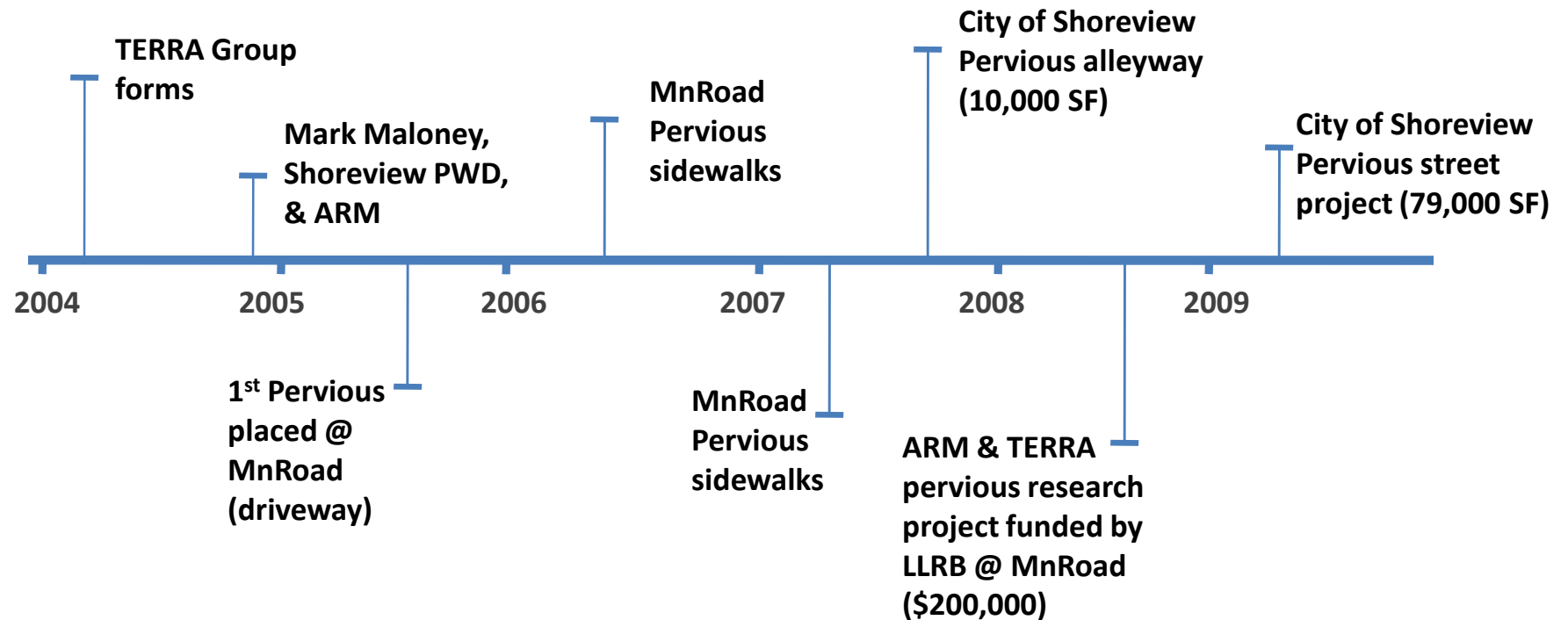
- ☐ Value of 3rd Party Endorsements
 - fact sheets and bulletins endorsing pervious concrete technology
 - Outreach to specifiers and public officials

City of Shoreview, MN

2009 Street Reconstruction Project

Woodbridge Neighborhood

Timeline



City of Shoreview, MN
2009 Street Reconstruction Project
Woodbridge Neighborhood

Pavement Serves “4 Purposes”

1. Low Volume Traffic
2. “Replacement” of Traditional Storm Sewer System
3. Control stormwater runoff & recharge groundwater
4. Stormwater Filtration (first flush pollutants)



City of Shoreview, MN

2009 Street Reconstruction Project

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Pavement Designed for **50 Year Storm Event**

Existing Conditions:

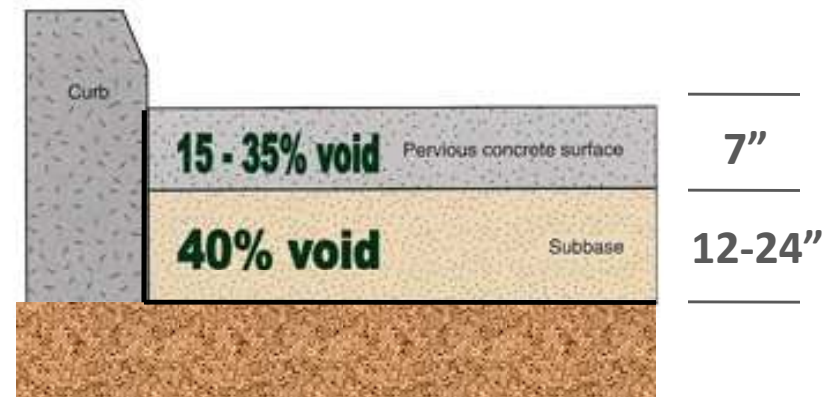
Native soils- Class A type clean sand
3.5-4.0" per hr infiltration

Pavement Details:

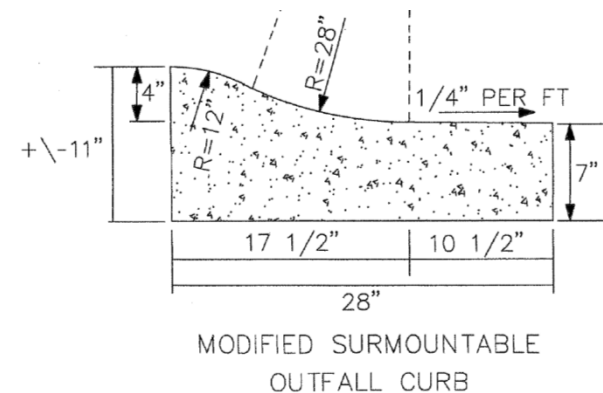
Pervious: 7"
Recharge Bed: 12-24" of 1 ½" crushed basalt
Geotextile: Non-woven (Mirafi 160M or equal)

Mix Details: FKSPERV by Cemstone

500 psi Flexural @ 28 days
0.27 W/C Ratio
3/8" crushed dolomite (Falkstone/No. Iowa)
Recharge Bed: 12-24" of 1 ½" crushed basalt
Geotextile: Non-woven (Mirafi 160M or equal)



Actual Curb Design



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Installation

- Allen Triple Roller Tube Paver
- Cross rolled
- Tamp edges
- DOT curing blankets (7 day cure)
- Joints, wet cut 9-10' cross joints w/ center line divider



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Maintenance

- Regenerative air street sweeper
- Frequency: 1x / month during summer/fall



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Acknowledgements

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Tom Wesolowski, P.E., Assistant City Engineer

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John Lee, P.E., LEED AP, Sales Mgr – Civil and Engineered Sales

☐ **North Country Concrete, Inc.** (6 NRMCA Certified Pervious Techs)

Cliff Swenson, Project Manager

☐ **Veit Companies (GC)**

Rollo Wallmow, Project Manager

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For further information contact:

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