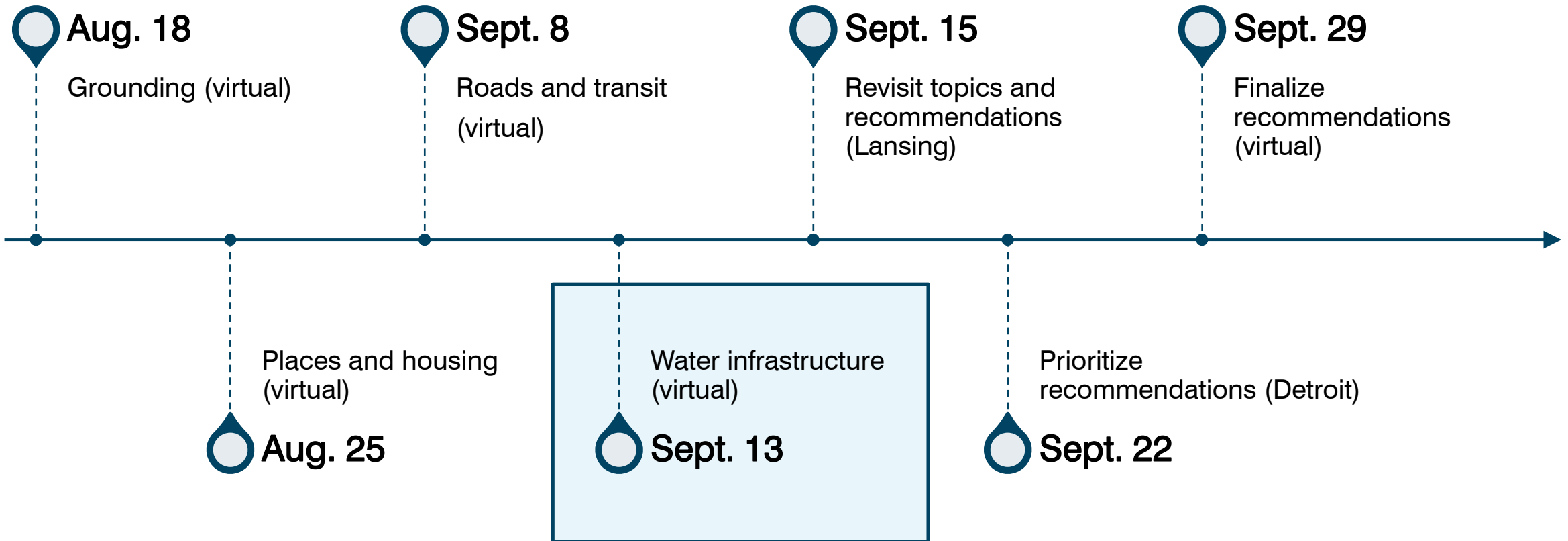


Infrastructure and Places Workgroup Meeting Four

September 13, 2023

Infrastructure and Places Timeline



The Charge for Today



Review

Review the grounding data and workgroup charge



Discuss and refine

Discuss and refine the recommendations



Arrive

Arrive at a draft list of workgroup recommendations on this topic

Infrastructure and Places: Workgroup Charge

- Propose long-term, sustainable, and equitable funding solutions for Michigan's **multimodal transportation** systems and aging **water infrastructure** to help meet the 2050 population goal identified by the council

Infrastructure and Places: Workgroup Charge

- Consider the need for **placemaking** investments that will support retention and attraction goals
- Consider the need for **sustainable investment** among the emergence of more **fuel-efficient vehicles** and an unprecedented influx of one-time federal money
- Propose solutions on how to create attainable **housing** options for Michiganders in every income bracket and create investment-ready sites across the state

Why Does Infrastructure Matter to Place and Population?

- Physical infrastructure is the foundation on which our society, communities, and economy are built
 - In Michigan, we built out rather than building up or in
- Thriving communities require healthy infrastructure
- When infrastructure fails, a community can grind to a halt
 - People can't live their lives and we stop doing business
 - Media coverage shapes outsiders' perspectives of the state



WATER MAIN BREAK

OAKLAND COUNTY



W 14 MILE RD

AFFECTED COMMUNITIES

OAKLAND COUNTY

COMMERCE TWP

KEEGO HARBOR

SYLVAN LAKE

WEST BLOOMFIELD

WALLED LAKE

WIXOM

FARMINGTON HILLS

NOVI

PSC

5:05

39°





How's Michigan Doing?

American Society of Civil Engineers [2023 Michigan's Infrastructure Report Card](#):

D+

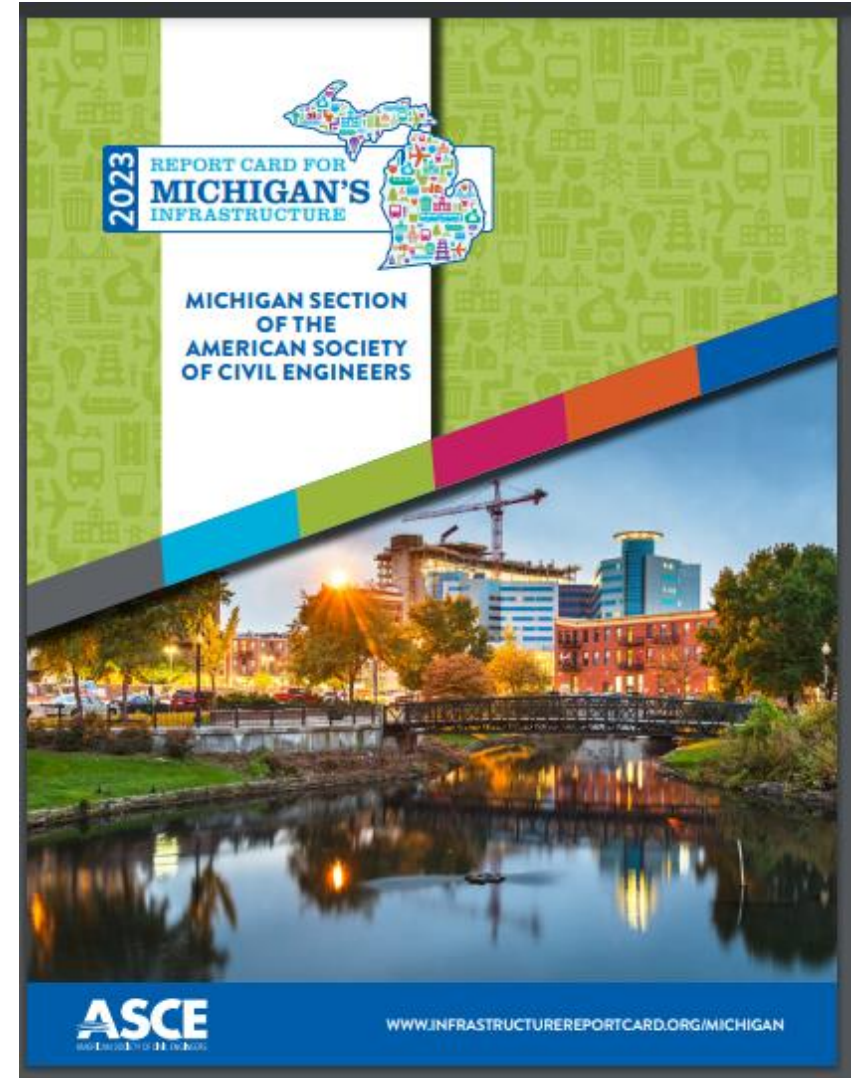
Drinking water

C

Wastewater

D

Stormwater



Water Infrastructure: Grounding Information

75%

of Michiganders on public water and/or wastewater systems

60–100+ years

Age of systems

-77%

Federal funding reductions for infrastructure since 1977

\$800+ m

Annual gap for drinking, waste, and storm water

6–10%

of households are “water burdened” paying more than 5 percent of their income for their water bill

Water Infrastructure: Grounding Information

- 1,400 community public water supplies in Michigan serving over 7 million people
 - 150 serve more than 10,000 people
 - The remainder (nearly 1.12 million households) are served by private wells
- 1,100 wastewater treatment systems in Michigan
 - 30 percent of households (1.4 million) in the state use a septic system

Public Water Supply ID	Water Supply Name	County	Retail Population served	Source	Owner
MI0000011	Acme Township - Hope Village	Grand Traverse	128	GW	L
MI0000012	Ada Township	Kent	6,523	SWP	L
MI0000020	Adams Township	Houghton	2,010	GW	L
MI0003857	Addington Place Of Dewitt	Clinton	39	GW	P
MI0000030	Addison	Lenawee	605	GW	L
MI0000040	Adrian	Lenawee	23,663	SW	L
MI0000050	Ahmeek	Keweenaw	148	GWP	L
MI0000070	Akron	Tuscola	402	GW	L
MI0000072	Akron Township	Tuscola	219	SWP	L
MI0000082	Alabaster Township	Iosco	86	SWP	L
MI0060085	Alamo Nursing Home	Kalamazoo	100	GW	P
MI0040458	Alan'S Park - Durand	Shiawassee	50	GW	P
MI0040319	Alan'S Park - Fowlerville	Livingston	498	GW	P
MI0040129	Alanson Estates Mobile Home Park	Emmet	50	GW	P
MI0000088	Albee Township	Saginaw	411	SWP	L
MI0000100	Albion	Calhoun	9,144	GW	L
MI0040216	Alexanders Mobile Village	Isabella	50	GW	P
MI0040259	Algoma Estates	Kent	580	GW	P
MI0000110	Algonac, City Of	St Clair	4,110	SW	L
MI0000120	Allegan	Allegan	5,930	GW	L
MI0000125	Allegan County Services Center	Allegan	101	GW	L
MI0040002	Allegan Mobile Estates	Allegan	100	GW	P
MI0000130	Allen Park	Wayne	28,210	SWP	L
MI0000127	Allendale Township	Ottawa	19,725	SWP	L
MI0000140	Alma, City Of	Gratiot	9,182	SWP	L
MI0000150	Almont, Village Of	Lapeer	2,674	SWP	L
MI0000170	Alpena Township	Alpena	5,197	SWP	L
MI0000160	Alpena, City Of	Alpena	10,483	SW	L
MI0000180	Alpha	Iron	198	GW	L
MI0040681	Alto Meadows	Kent	250	GW	P
MI0040246	Andrews Estates	Kalamazoo	178	GW	P
MI0000210	Andrews University	Berrien	3,000	GWP	P
MI0000220	Ann Arbor	Washtenaw	118,017	SW	L
MI0000221	Ann Arbor Township	Washtenaw	1,338	SWP	L
MI0040355	Apple Carr Village	Muskegon	1,125	GW	P
MI0040664	Apple Grove Estates	Kent	125	GW	P
MI0040668	Applewood	Van Buren	75	GW	P
MI0000236	Arbor Ridge Condominiums	Jackson	58	GW	P

Water Infrastructure: How Is It Funded?

- The development and maintenance for water infrastructure in Michigan is funded through sewer and drinking water rates charged to customers through **water utility bills**.
- Rates are set annually to cover the operational, capital, regulatory compliance, and delivery costs of each of the services a utility offers
 - There is no federal or (permanent) statewide assistance program for water affordability
 - Affordability is cited as a reason that water utilities are underinvesting
 - Rate design is generally based on water use
 - Public health value not included
 - Fire suppression value not included

State and Federal Funding

- Federal funding used to make up a majority of the funding for water infrastructure
- States use state revolving funds (CWSRF and DWSRF) to provide access to low-interest loans
 - Bipartisan Infrastructure Law and American Rescue Plan Act money provided additional grant funds
 - Historically underutilized for drinking water and oversubscribed for sewer and stormwater (mirroring historic regulatory focus on surface and ground water quality)
- Money available for lead and other emerging contaminants

Stormwater Infrastructure: Grounding Information

- Few mechanisms to provide funding for stormwater management
 - Drain Code
- Cities generally don't have tools to fund stormwater management
 - Approaches must comply with the Headlee Amendment and the Bolt v. City of Lansing ruling
 - Most cities in Michigan haven't done it because it's complicated and ripe for legal challenges if not done perfectly



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