

## Citywide Drainage Analysis for Gravel Roads City of Ann Arbor Recommendations Bracket

Individual				Local				Regional				Neighborhood Wide				
Location	Issues	Recommendation	Estimated Cost	Location	Issues	Recommendation	Estimated Cost	Location	Issues	Recommendation	Estimated Cost	Location	Issues	Recommendation	Estimated Cost	
2840 Dexter	Ditch along Dexter re-graded in August 2023 - dug too low. Now water sits in ditch before it accumulates enough to flow out.	Cleanout ditch along north side of Dexter Road.	Maintenance													
2855 Dexter	Drainage off Dexter pools in resident's driveway and side yard and holds standing water. Glenwood is the main concern. Sometimes from neighbors. Will usually soak up within an hour. The cross tube under Dexter is unclear if it's still functioning. Used to flow in 2009. Most times bypassing ditch.	Re-establish ditches on Delwood to allow for better drainage.	\$20,000	Dexter & Delwood intersection	Water sitting in ditch causing front yards to hold standing water due to inadequate drainage.	Clean out culverts/ditches. Video and clean downstream pipes as necessary.	Maintenance	Dexter (West Outlet)	City is adding sidewalk along the right of way of Dexter. This presents an opportunity to add drainage improvements while the area is already disturbed.	Construct enclosed storm sewer along Dexter, to collect stormwater and direct toward M-14; enlarge the existing stormwater pipe to handle the increased flow.	\$600,000					
486 Barber	Basement and garage flooding.	Reclaim right of way for drainage and extend stormwater pipe from the north culvert to City dry wells.	\$35,000													
475 Barber	Water flows from Dexter and then south down Barber causing standing water.	See Regional recommendation	N/A													
453 Dupont	Water flows from Barber and creates a large pool of water at the bottom of Dupont Circle.	See Regional recommendation	N/A													
400 Clarendon	Water from Dexter and Valley roads holds standing water in front and side yards.	See Local recommendation	N/A	East of Clarendon	Valley drains water in yards causing solid ice in winter months and algae growing on roads in summer months.	Revise grading and/or provide detention/retention to minimize or eliminate standing water.	See Regional recommendation									
2682 Valley																
2675 Valley	Standing water in driveway and front yard during rain events.	See Local recommendation	N/A	Clarendon & Valley Intersection	Standing water in driveway when it rains. Residents state that road used to be below the driveways but has been built up over the years.	Regrade the local roadway to eliminate intermediate low point.	\$135,000									
2678 Valley							Lower the roadway surface elevation.	\$185,000								
2681 Valley								Reclaim right of way for ditches and connecting culverts.	\$54,000	Valley Drive	Road is higher than surrounding driveways and properties, but the general vicinity is a low point.	Regrade (lower) all of Valley to eliminate standing water. Add curb and gutter.	\$1,500,000			
2750 Valley	Drainage from Valley pools in the low point in the right of way in front of this property. Unable to take advantage of existing culvert since it is buried.	Maintain existing culvert.	Maintenance	Evergreen & Valley Intersection	Water flowing from west of Valley and pools in neighboring yards at this intersection due to its relatively low elevation. The storm drain at the edge of the intersection is blocked.	Add curbs to keep water on the road and out of yards.	\$26,000									
305 Glenwood	Edge of road not draining to catch basin in greenbelt.	Fix grading to structure from roadway to curb inlet.	\$13,000	Glenwood & Valley Intersection	Water flows down Valley from the west. This is not the lowest intersection in the vicinity, but properties still see roadway drainage in front yards.	Upgrade intersection with curb and gutter to keep stormwater on road.	\$28,000									
466 Evergreen	It appears to be an intermediate low point in road. Stormwater collects at foot of property owner's driveway and sidewalk (and foot of south neighbor's driveway). Dry well/pump access in right of way in front of house.	Add a catch basin to connect low point with stormwater pipe.	\$113,000													
			Add a bioswale (with underdrain) next to the sidewalk.	\$20,000												
415 Pinewood	Drainage from Pinewood flows to the rear yard from the south.	See Neighborhood-wide recommendation	N/A													
465 Pinewood	Water drains across the property from Pinewood to the west. Ends up in neighboring properties (444 Parkwood & 465 Pinewood). The resident has a trench set up next to driveway to divert this to the rear yard.	See Neighborhood-wide recommendation	N/A													
444 Parkwood	Yard and basement flooding due to Pinewood drainage.	See Neighborhood-wide recommendation	N/A													
421 Parkwood	Reports that neighbor's landscape work (neighbor to south) is causing her gravel driveway to regularly erode. Construction of a stone retaining wall is causing upstream water to concentrate at a poor location, causing her to lose driveway gravel.	Regrade southern property to direct stormwater to road. Install a catch basin and connect to Dexter stormwater pipe.	Property Owner Responsibility \$100,000	Evergreen Park	Existing pathways appear to divide drainage issue area. Looks like there's potential to drain half of standing water in park area to the northwest, and the other half to the east.	Install detention basins and/or other best management practices to handle local standing water in east of park.	Further Investigation Required					Wherever Gravel Roads Exist	Rain events causing standing water on main roads and on homeowners property leading to unsafe driving conditions.	Construct enclosed (underground) storm sewer system; reconstruct gravel roads with paved roads with curb and gutter.	\$7,500,000.00 (but further investigation and study required for more accurate estimate of cost)	
460 Parkwood	Low point in road where water collects. Residents states that the bottom of their driveway holds standing water.	Run stormwater pipe up Dexter and connect to Dexter ditch.	\$110,000													
			Grade lawn area to direct stormwater into catch basins.	Maintenance												
400 Barber	Standing water at low points from surrounding areas.	See Regional recommendation	N/A	Barber & Kingwood	Drainage flows to a natural low spot on these parcels from the surrounding area and Evergreen Park.	Revise grading and/or provide detention or retention to minimize standing water.	Further Investigation Required									
404 Barber																
420 Rose	During severe rain events, storm water will accumulate on the west side of Rose, overtop the road, and then drain into the property.	See Local recommendation	N/A	Rose (west side)	During storm events, water from Dupont Cir flows into the backyards of houses causing excessive standing water.	Revise grading and/or provide detention/retention to minimize or eliminate standing water.	Further Investigation Required	Dupont Cir & Barber	Stormwater flows west along Dexter, and then south down Barber. It then flows across Barber heading down Dupont Circle, standing water found in two yards in the neighborhood.	Construct storm sewer system (open and enclosed) to intercept stormwater near the south side of Dupont Cr, direct it south to Kingswood, and then eastward to outlet at the NE corner of Kingswood and Barber.	\$410,000					
315 Barber	Property is not graded to direct stormwater to the existing catch basin in the right away.	Private property owners could explore on-site regrading.	Property Owner Responsibility	Barber & Valley	The land to the south of this intersection is underutilized and would benefit from the addition of stormwater storage. The highway ditch to the south could accept water from the neighborhood to alleviate standing water issues in the southwest.	Add detention basins and storm infrastructure to route water from neighborhood and outlet under I-94.	Further Investigation Required									
3261 Ravenwood	Overland stormwater from the south accumulates in the east rear/side yard of the property during storm events, then drains north toward Ravenwood Ave, where it then stands for a time until it eventually drains away/percolates into ground.	Clean culvert and re-grade lawn at inlet.	Maintenance													
			Look at the downstream path to check for problems	Further Investigation Required					Rose (South of Kingswood)	Even with normal rains, the part of Rose Drive between the dead end and Kingswood gathers up water and it stays for days, even weeks.	Run a stormwater pipe to the south from Kingswood intersection to discharge near I-94.	\$250,000				
2651 Hollywood	Stormwater from neighbors to the south and east drain into east side of property. Stormwater eventually makes its way to Hollywood Dr, where it stands for a time before eventually draining into structures at Hollywood.	Increase frequency of cleaning storm sewer catch basins at Hollywood.	Maintenance													
785 Kuehnle	Reported an abandoned well in the southwest corner of property, that discharges water during rain events, which then flows across property.	Property owner to contact the County Health Department to confirm well status.	Property Owner Responsibility													
713 Kuehnle	Reported a natural spring in 626 Barber's property, that discharges water toward their property.	Issue does not originate from public ROW (private issue).	Property Owner Responsibility													

**Legend:**

- Individual
- Local
- Regional
- Neighborhood
- Maintenance by City