

APPENDIX E

SUPERTABLE



Calhoun County Water Resource Commissioner
Drain Inspection and Maintenance Recommendation SuperTable

| Drain Name | Drain No. | Maintenance Miles | # of Parcels | Site # / Station # | Quick Category | Description | Quantity Feet/yd3 | Recommendation | Priority (H,M,L) | RANK | Inspection Date | Inspection Reason | MDEQ Permit? | Estimated Cost | Notes/Schedule |
|---------------------------------|-----------|-------------------|--------------|--|---|---------------------------------------|-------------------|---|------------------|------|---------------------|-------------------|--------------|----------------------|----------------|
| Romans Drain | 174 | 1.61 (2) | 287 | Stephanie Avenue to Sta 33+00 | Closed Flow | Inspection | 2,100 feet | Televise drain. Cleaning or jetting may be necessary. | H | 1 | Fall 2014 | d, f, g | No | \$5,500 to \$7,800 | Within 1 year |
| Alder Creek | 004 | 4.13 (5) | 382 | 10 Mile Rd and K Drive S, Station 93+89 | Open Flow Conditions; Field Tiles | Debris removal, drain bank repair | 1 Each | Investigate cause of flooding in agricultural field in NE corner of intersection, Station 93+89. Remove sediment or vegetation to clear passage for field tile if needed. | H | 2 | Dec 2014 | | Maybe | \$3,000 to \$5,000 | 1-2 years |
| Bear Creek | 018 | 7.91 (8) | 479 | Station 172+06 | Open Flow Conditions | Drain bank repair | 1 Each | Bank stabilization to fix severe toe undercut. | H | 3 | Mar-15 | | No | \$2,000 to \$3,000 | 1-2 years |
| Nottawa Drain | 144 | 31 | 2673 | Sta 318+12 | Culvert Crossings | Crossing Repair or Replacement | 1 Each | Failed Crossing. Work with landowner to replace or remove. | H | 4 | Summer 2015-2016 | a, d, f, g, h | No | | 1-2 years |
| Nottawa Drain | 144 | 31 | 2673 | Sta 1143+71 | Culvert Crossings | Crossing Repair or Replacement | 1 Each | Failed Crossing. Work with landowner to replace or remove. | H | 5 | Summer 2015-2016 | a, d, f, g, h | No | | 1-2 years |
| Turtle Lake Drain | 349 | 1.03 (2) | 262 | V Dr. S to Turtle Lake | Vegetation | Selective Clearing | 1,900 feet | Dead or leaning trees throughout this reach. | H | 6 | Summer 2014 | f, g | No | \$4,000 | 1-2 years |
| Turtle Lake Drain | 349 | 1.03 (2) | 262 | V Dr. S to Turtle Lake | Vegetation | Channel Clearing/ Debris Removal | 1,900 feet | Approximately 5 log jams and 4 downed trees ranging in size from 10-36 inches. | H | 7 | Summer 2014 | f, g | No | \$4,000 | 1-2 years |
| Turtle Lake Drain | 349 | 1.03 (2) | 262 | Sta 22+51 | Vegetation | Debris Removal | 1 Each | Approximately six 12-18 inch logs or branches. No excavator necessary – chainsaws, chains, and winches should be able to remove this log jam. | H | 8 | Summer 2014 | f, g | No | \$2,000 | 1-2 years |
| Hyde, Hollon & Cedar Lake Drain | 104 | 2.86 (3) | 197 | Sta 113+62 | Culvert Crossings | Structure Removal | 1 Each | Coordinate with landowner to remove or repair private footbridge | H | 9 | Fall 2014 | f, g | No | At landowner cost | 1 year |
| Hyde, Hollon & Cedar Lake Drain | 104 | 2.86 (3) | 197 | Sta 157+07 | Culvert Crossings | Structure Removal | 1 Each | Coordinate with landowner to remove or repair private footbridge | H | 10 | Fall 2014 | f, g | No | At landowner cost | 1 year |
| Dogtown | 060 | 4.92 (5) | 97 | Station 10+40 | Open Flow Conditions | Fence removal | 1 Each | Fence in drain channel and barb wire fence overhanging drain channel. Made inspection inaccessible. Coordinate with landowner to remove. | H | 11 | Mar 2015 | | No | Less than \$500 | 1-2 years |
| Dogtown | 060 | 4.92 (5) | 97 | Station 49+37 | Open Flow Conditions | Structure repair or replacement | 1 Each | Weir on private property is diverting flow to private pond and changing hydraulic grade. Inspect and coordinate removal with landowner if deemed necessary. | H | 12 | Mar 2015 | | No | | 1-2 years |
| Dogtown | 060 | 4.92 (5) | 97 | Station 14+13 | Open Flow Conditions | Structure repair or replacement | 1 Each | Pond on private property has diverted flow from the drain with pumps. Also, overflow outlet is to the drain. Have landowner remove if deemed necessary. | H | 13 | Mar 2015 | | No | Less than \$500 | 1-2 years |
| Romans Drain | 174 | 1.61 (2) | 287 | Outlet to Susan Drive | Vegetation | Channel Clearing | 100 feet | Removal of 12-18 logs within channel. | M | 1 | Fall 2014 | d, f, g | No | \$2,000 to \$3,000 | 1-2 years |
| Romans Drain | 174 | 1.61 (2) | 287 | Outlet to Susan Drive | Vegetation | Selective Clearing | 100 feet | Removal of dead, dying, or leaning trees from tops of banks. | M | 2 | Fall 2014 | d, f, g | No | \$2,000 to \$3,000 | 1-2 years |
| Bear Creek | 018 | 7.91 (8) | 479 | Outlet at Kalamazoo River to Railroad Crossing | Open Flow Conditions | Drain bank repair | 1,600 LF | Provide bank stabilization throughout this segment as needed from Kalamazoo River to Station 15+01. | M | 3 | Mar 2015 | | Maybe | \$10,000 to \$15,000 | 1-2 years |
| Bear Creek | 018 | 7.91 (8) | 479 | Station 16+16 | Other | Other | 1 Each | Install grate on top of concrete inlet structure. | M | 4 | Mar 2015 | | No | Less than \$500 | 1-2 years |
| Bear Creek | 018 | 7.91 (8) | 479 | Outlet at Kalamazoo River to I-69 | Vegetation; Open Flow Conditions | Debris removal, channel clearing | 7,500 LF | Remove log jams and fallen trees. Prioritize station 0+46 to 15+86 and Station 43+32 to 55+39. Remove sediment buildup as needed. | M | 5 | Mar 2015 | | No | \$10,000 to \$15,000 | 1-2 years |
| Bear Creek | 018 | 7.91 (8) | 479 | Station 56+40 | Open Flow Conditions | Debris removal | 1 Each | Animal constructed dam is impeding flow. Remove if causing flooding upstream. | M | 6 | Mar 2015 | | Yes | \$3,000 to \$5,000 | 1-2 years |
| Bear Creek | 018 | 7.91 (8) | 479 | I-69 to I-94 | Vegetation; Culvert Crossings; Open Flow Conditions | Debris removal, open channel cleanout | 4,700 LF | Multiple log jams and fallen trees throughout this reach. Prioritize Station 108+06 to 117+34. Remove sedimentation as needed. Re-evaluate scale at time of work. | M | 7 | Mar 2015 | | No | \$6,000 to \$8,000 | 1-2 years |
| Bear Creek | 018 | 7.91 (8) | 479 | Private crossing at Station 164+66 | Culvert Crossings | Crossing repair or replacement | 1 Each | Contact landowner to expose submerged culvert, and repair crossing if deemed necessary. | M | 8 | Mar 2015 | | Maybe | Less than \$500 | 2-4 years |
| Bear Creek | 018 | 7.91 (8) | 479 | I-94 to 16 1/2 Mile Rd | Vegetation; Open Flow Conditions | Debris removal, open channel cleanout | 10,400 LF | Remove log jams and fallen trees. Prioritize station 188+87 to 228+98. Remove excess sediment. Prioritize station 180+45 to 186+65 and Station 240+86 to 276+67. | M | 9 | Dec 2014 & Mar 2015 | | No | \$10,000 to \$15,000 | 1-2 years |



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|---------------------|-----------|-------------------|--------------|------------------------|----------------------------------|--|--------------------|--|------------------|------|------------------|-------------------|--------------|-------------------------------|----------------|
| Sperry Morgan Drain | 197 | 2.25 (3) | 500 | Outlet to Limit Street | Vegetation | Channel Clearing | 5,000 feet | Multiple log jams and downed trees. Excavator may be necessary – chainsaws, chains, and winches necessary. | M | 10 | Fall 2014 | f, g | No | \$7,000 to \$10,000 | 1-2 years |
| Nottawa Drain | 144 | 31 | 2673 | Poor Condition Reaches | Vegetation | Debris Removal, Selective Clearing | 2-3 Miles per year | Multiple log jams and downed trees. Excavator may be necessary – chainsaws, chains, and winches necessary. Access is limited to each site. Individual site removal could be coordinated with ongoing routing maintenance clearing. | M | 11 | Summer 2015-2016 | a, d, f, g, h | No | \$40,000 to \$50,000 per year | 2-3 years |
| Nottawa Drain | 144 | 31 | 2673 | 957+41 | Vegetation; Open Flow Conditions | Debris Removal; Installation of in-stream structures | 1 Each | Multiple log jams and downed trees. Excavator may be necessary – chainsaws, chains, and winches necessary. Access is limited to each site. Individual site removal could be coordinated with ongoing routing maintenance clearing. Install in-stream structures using local materials as necessary | M | 12 | Summer 2015-2016 | a, d, f, g, h | No | \$10,000 to \$20,000 | 2-4 years |
| Nottawa Drain | 144 | 31 | 2673 | 99+38 | Vegetation; Open Flow Conditions | Debris Removal; Installation of in-stream structures | 1 Each | Multiple log jams and downed trees. Excavator may be necessary – chainsaws, chains, and winches necessary. Access is limited to each site. Individual site removal could be coordinated with ongoing routing maintenance clearing. Install in-stream structures using local materials as necessary | M | 13 | Summer 2015-2016 | a, d, f, g, h | No | \$10,000 to \$20,000 | 2-4 years |
| Nottawa Drain | 144 | 31 | 2673 | 975+16 | Vegetation; Open Flow Conditions | Debris Removal; Installation of in-stream structures | 1 Each | Multiple log jams and downed trees. Excavator may be necessary – chainsaws, chains, and winches necessary. Access is limited to each site. Individual site removal could be coordinated with ongoing routing maintenance clearing. Install in-stream structures using local materials as necessary | M | 14 | Summer 2015-2016 | a, d, f, g, h | No | \$10,000 to \$20,000 | 2-4 years |
| Nottawa Drain | 144 | 31 | 2673 | 122+40 | Vegetation; Open Flow Conditions | Debris Removal; Installation of in-stream structures | 1 Each | Multiple log jams and downed trees. Excavator may be necessary – chainsaws, chains, and winches necessary. Access is limited to each site. Individual site removal could be coordinated with ongoing routing maintenance clearing. Install in-stream structures using local materials as necessary | M | 15 | Summer 2015-2016 | a, d, f, g, h | No | \$10,000 to \$20,000 | 2-4 years |
| Nottawa Drain | 144 | 31 | 2673 | 1110+56 | Vegetation; Open Flow Conditions | Debris Removal; Installation of in-stream structures | 1 Each | Multiple log jams and downed trees. Excavator may be necessary – chainsaws, chains, and winches necessary. Access is limited to each site. Individual site removal could be coordinated with ongoing routing maintenance clearing. Install in-stream structures using local materials as necessary | M | 16 | Summer 2015-2016 | a, d, f, g, h | No | \$10,000 to \$20,000 | 2-4 years |
| Nottawa Drain | 144 | 31 | 2673 | 179+48 | Vegetation; Open Flow Conditions | Debris Removal; Installation of in-stream structures | 1 Each | Multiple log jams and downed trees. Excavator may be necessary – chainsaws, chains, and winches necessary. Access is limited to each site. Individual site removal could be coordinated with ongoing routing maintenance clearing. Install in-stream structures using local materials as necessary | M | 17 | Summer 2015-2016 | a, d, f, g, h | No | \$10,000 to \$20,000 | 2-4 years |
| Nottawa Drain | 144 | 31 | 2673 | 1111+42 | Vegetation; Open Flow Conditions | Debris Removal; Installation of in-stream structures | 1 Each | Multiple log jams and downed trees. Excavator may be necessary – chainsaws, chains, and winches necessary. Access is limited to each site. Individual site removal could be coordinated with ongoing routing maintenance clearing. Install in-stream structures using local materials as necessary | M | 18 | Summer 2015-2016 | a, d, f, g, h | No | \$10,000 to \$20,000 | 2-4 years |
| Nottawa Drain | 144 | 31 | 2673 | 454+86 | Vegetation; Open Flow Conditions | Debris Removal; Installation of in-stream structures | 1 Each | Multiple log jams and downed trees. Excavator may be necessary – chainsaws, chains, and winches necessary. Access is limited to each site. Individual site removal could be coordinated with ongoing routing maintenance clearing. Install in-stream structures using local materials as necessary | M | 19 | Summer 2015-2016 | a, d, f, g, h | No | \$10,000 to \$20,000 | 2-4 years |
| Nottawa Drain | 144 | 31 | 2673 | 563+43 | Vegetation; Open Flow Conditions | Debris Removal; Installation of in-stream structures | 1 Each | Multiple log jams and downed trees. Excavator may be necessary – chainsaws, chains, and winches necessary. Access is limited to each site. Individual site removal could be coordinated with ongoing routing maintenance clearing. Install in-stream structures using local materials as necessary | M | 20 | Summer 2015-2016 | a, d, f, g, h | No | \$10,000 to \$20,000 | 2-4 years |



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|---------------------------------|-----------|-------------------|--------------|--|---|---|-------------------|--|------------------|------|------------------|-------------------|--------------------------------|----------------------|---|
| Nottawa Drain | 144 | 31 | 2673 | 5 Mile Rd | Culvert Crossings | Crossing Repair or Replacement | 1 Each | Coordinate with Road Department to repair or replace culvert. | M | 21 | Summer 2015-2016 | a, d, f, g, h | No - If CCWRC coordinates work | \$15,000 - \$25,000 | 2-4 years |
| Nottawa Drain | 144 | 31 | 2673 | H Drive S | Culvert Crossings | Crossing Repair or Replacement | 1 Each | Coordinate with Road Department to repair or replace culvert. | M | 22 | Summer 2015-2016 | a, d, f, g, h | No - If CCWRC coordinates work | \$15,000 - \$25,000 | 2-4 years |
| Nottawa Drain | 144 | 31 | 2673 | J Drive S | Culvert Crossings | Crossing Repair or Replacement | 1 Each | Coordinate with Road Department to repair or replace culvert. | M | 23 | Summer 2015-2016 | a, d, f, g, h | No - If CCWRC coordinates work | \$15,000 - \$25,000 | 2-4 years |
| Sperry Morgan Drain | 197 | 2.25 (3) | 500 | Limit Street to Waubascon Road | Vegetation | Channel Clearing; Selective Clearing | 2,600 feet | Multiple log jams and downed trees. Excavator may be necessary – chainsaws, chains, and winches necessary. | M | 24 | Fall 2014 | f, g | No | \$5,000 to \$7,500 | 2-4 years |
| Dogtown | 060 | 4.92 (5) | 97 | Outlet at O Drive to Crossing at 1 Mile Rd | Vegetation; Open Flow Conditions | Debris removal | 3,800 LF | Remove logs, fallen trees, and other scattered woody debris. Remove concrete pipe segment at Station 45+88. | M | 25 | Mar 2015 | | No | \$6,000 to \$8,000 | Fence made Drain inaccessible for inspection from POB to Station 10+40. ; 2-4 years |
| Dogtown | 060 | 4.92 (5) | 97 | 1 Mile Rd to M Drive S | Vegetation; Open Flow Conditions | Open channel cleanout, snagging | 3,500 LF | Grassy overgrowth in center of drain channel. Also sedimentation in drain channel. Remove woody debris as needed. | M | 26 | Mar 2015 | | No | \$6,000 to \$8,000 | 2-4 years |
| Dogtown | 060 | 4.92 (5) | 97 | M Drive S to K Drive S | Open Flow Conditions | Drain bank repair | 4,100 LF | Bank stabilization needed in pockets throughout this reach. Prioritize Station 104+83 to 125+69. | M | 27 | Mar 2015 | | Maybe | \$9,000 to \$12,000 | 2-4 years |
| Dogtown | 060 | 4.92 (5) | 97 | M Drive S to K Drive S | Vegetation | Debris removal, selective clearing | 4,100 LF | Remove log jams and fallen trees throughout the reach. Prioritize Station 104+54 to 130+06. Several leaning trees require monitoring, and may require removal at time of work. | M | 28 | Mar 2015 | | No | \$10,000 to \$15,000 | 2-4 years |
| Hyde, Hollon & Cedar Lake Drain | 104 | 2.86 (3) | 197 | Main Drain Sta 100+00 to 160+00 | Vegetation | Selective Clearing; Channel Clearing | 6,000 feet | Access to site is limited. | M | 29 | Fall 2014 | f, g | No | \$12,500 to \$17,500 | 2-4 years |
| Hyde, Hollon & Cedar Lake Drain | 104 | 2.86 (3) | 197 | Main Drain 1-69 to Sta 80+00 | Vegetation | Selective Clearing; Channel Clearing | 2,500 feet | Removal of dead, dying, or leaning trees on banks and within channel. Chainsaws, winches, and hand equipment. | M | 30 | Fall 2014 | f, g | No | \$5,000 to \$7,500 | 2-4 years |
| Alder Creek | 004 | 4.13 (5) | 382 | 10 Mile Rd to Newton-Burlington | Vegetation; Open Flow Conditions; Field Tile Conditions | Drain bank repair, debris removal, selective clearing | 6,000 LF | Remove excessive vegetation, fallen trees, log jams, woody debris, and excessive sediment as needed. Remove leaning trees and woody material on banks as needed. | M | 31 | Dec 2014 | | No | \$8,000 to \$10,000 | 2-4 years |
| Alder Creek | 004 | 4.13 (5) | 382 | POB at Nottawa Creek to M Drive S | Open Flow Conditions; Culvert Conditions | Drain bank repair, crossing repair | 1300 LF | Provide bank stabilization from POB at Nottawa Creek to M Drive S, Station 0+25 to 13+33. Provide bank stabilization at bridge crossing at M Drive S. | M | 32 | Dec 2014 | | Maybe | \$4,000 to \$5,000 | 2-4 years |
| Alder Creek | 004 | 4.13 (5) | 382 | Station 141+48 to Station 143+13 | Open Flow Conditions | Drain bank repair | 200 LF | Provide bank stabilization Station 141+48 to 143+13. | M | 33 | Dec 2014 | | Maybe | \$2,000 to \$3,000 | 2-4 years |
| Alder Creek | 004 | 4.13 (5) | 382 | Station 110+34 | Other | Fence removal | 1 Each | Verify permit of fence overhanging drain channel. Coordinate removal with landowner if deemed necessary. | M | 34 | Dec 2014 | | No | Less than \$500 | 1-2 years |
| Alder Creek | 004 | 4.13 (5) | 382 | Private crossing at Station 162+10 | Culvert Crossings | Crossing repair | 1 Each | Monitor crossing at Station 162+10. Contact landowner to provide headwall stabilization and cover if deemed necessary. | M | 35 | Dec 2014 | | No | Less than \$500 | 2-4 years |
| Alder Creek | 004 | 4.13 (5) | 382 | Station 170+29 | Other | Debris removal | 1 Each | Contact landowner to remove foot bridge at Station 170+29 if deemed necessary. | M | 36 | Dec 2014 | | No | Less than \$500 | 2-4 years |
| Garfield Lake | 078 | 1.42 (2) | 83 | Outlet at State & Indian Creek | Open Flow Conditions | Drain bank repair | 20 LF | Bank stabilization at outlet to State & Indian Creek required. | M | 37 | Mar 2015 | | Maybe | \$5,000 to \$7,000 | 4-8 years |
| Bear Creek | 018 | 7.91 (8) | 479 | 16 1/2 Mile Rd to POE | Vegetation; Open Flow Conditions | Debris removal, open channel cleanout | 13,900 LF | Remove log jams, fallen trees, excessive vegetation, and excessive sediment as needed. Re-evaluate prior to work. | M | 38 | Mar 2015 | | No | \$6,000 to \$8,000 | 3-6 years |
| Bear Creek | 018 | 7.91 (8) | 479 | Station 8+48 | Other | Debris removal | 1 Each | Coordinate with landowner to remove foot bridge. | M | 39 | Mar 2015 | | No | Less than \$500 | 1-2 years |



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|---------------------------------|-----------|-------------------|--------------|--|---|---|--------------------|--|------------------|------|------------------|-------------------|--------------------------------|-------------------------------|----------------|
| Bear Creek | 018 | 7.91 (8) | 479 | Station 346+89 and Station 355+85 | Other | Debris removal | 1 Each | Contact landowner to remove foot bridges at Station 346+89 and Station 355+85. | M | 40 | Mar 2015 | | No | Less than \$500 | 2-4 years |
| Bear Creek | 018 | 7.91 (8) | 479 | Private crossing at Station 362+39 | Culvert Crossings | Crossing repair or replacement | 1 Each | Monitor collapsing culvert at Station 362+39. Contact landowner to rehab or replace. | M | 41 | Mar 2015 | | Maybe | Less than \$500 | 3-6 years |
| Garfield Lake | 078 | 1.42 (2) | 83 | Station 15+16 | Other | Re-route piping | 1 Each | Determine type of pipe at Station 15-16. Re-route if deemed necessary. | L | 1 | Mar 2015 | | Maybe | Less than \$500 | 1-2 years |
| Dogtown | 060 | 4.92 (5) | 97 | K Drive S to POE at 1/2 Mile Rd | Vegetation; Open Flow Conditions | Open channel cleanout, snagging, selective clearing | 6,100 LF | Remove sediment in center portion of drain channel. Remove woody debris as needed. Several leaning trees require monitoring, and may require removal at time of work. | L | 2 | Mar 2015 | | No | \$10,000 to \$15,000 | 2-4 years |
| Nottawa Drain | 144 | 31 | 2673 | Satisfactory Condition Reaches | Inspection | Inspection | | Inspect these reaches and identify any deficiencies. | L | 3 | Summer 2015-2016 | a, d, f, g, h | No | | 3 years |
| Sperry Morgan Drain | 197 | 2.25 (3) | 500 | Waubascon Road to Morgan Road | Vegetation | Channel Clearing; Selective Clearing | 3,400 feet | Multiple log jams and downed trees. Excavator may be necessary – chainsaws, chains, and winches necessary. Access may be limited | L | 4 | Fall 2014 | f, g | No | \$5,000 to \$7,500 | 3-6 years |
| Alder Creek | 004 | 4.13 (5) | 382 | POB at Nottawa Creek to 10 Mile Rd | Vegetation; Culvert Crossings; Open Flow Conditions | Debris removal, selective clearing | 9,100 LF | Remove fallen trees, log jams, and woody debris as needed. Remove dead or leaning trees as needed. | L | 5 | Dec 2014 | | No | \$8,000 to \$10,000 | 3-6 years |
| Alder Creek | 004 | 4.13 (5) | 382 | Newton-Burlington to POE | Vegetation | Debris removal | 6,700 LF | Remove excessive vegetation, fallen trees, log jams, woody debris, and excessive sediment as needed. | L | 6 | Dec 2014 | | No | \$5,000 to \$7,000 | 3-6 years |
| Hyde, Hollon & Cedar Lake Drain | 104 | 2.86 (3) | 197 | Branch 1 Outlet to 15 1/2 Mi Road | Open Flow Conditions | Open Channel Cleanout | 2,500 feet | Center dip the channel; Survey channel prior to cleanout | L | 7 | Fall 2014 | f, g | No | \$4,000 to \$8,000 | 4-8 years |
| Sperry Morgan Drain | 197 | 2.25 (3) | 500 | Morgan Road to Upstream end | Vegetation | Channel Clearing; Selective Clearing | 4,010 feet | Multiple log jams and downed trees. Excavator may be necessary – chainsaws, chains, and winches necessary. Access may be limited | L | 8 | Fall 2014 | f, g | No | \$7,000 to \$10,000 | 6-8 years |
| Hyde, Hollon & Cedar Lake Drain | 104 | 2.86 (3) | 197 | Main Drain 1-69 to Sta 160+00 | Open Flow Conditions | Open Channel Cleanout | 10,500 feet | Center dip the channel; Survey channel prior to cleanout | L | 9 | Fall 2014 | f, g | No | \$17,500 to \$25,000 | 4-8 years |
| Nottawa Drain | 144 | 31 | 2673 | Fair Condition Reaches | Vegetation | Debris Removal, Selective Clearing | 2-3 Miles per year | Multiple log jams and downed trees. Excavator may be necessary – chainsaws, chains, and winches necessary. Access is limited to each site. Individual site removal could be coordinated with ongoing routing maintenance clearing. | L | 10 | Summer 2015-2016 | a, d, f, g, h | No | \$40,000 to \$50,000 per year | 3-9 years |
| Nottawa Drain | 144 | 31 | 2673 | Capital Avenue | Culvert Crossings | Crossing Repair or Replacement | 1 Each | Coordinate with Road Department to repair or replace culvert. Bridge has surficial spalling | L | 11 | Summer 2015-2016 | a, d, f, g, h | No - If CCWRC coordinates work | \$20,000 to \$40,000 | 5-10 years |
| Garfield Lake | 078 | 1.42 (2) | 83 | Old US-27 crossing, Station 5+03 | Culvert Crossings | Crossing repairs | 1 Each | Apply crack seal to headwall on upstream side of Old US-27 crossing. Coordinate with MDOT. | L | 12 | Mar 2015 | | Maybe | Less than \$500 | 2-4 years |
| Garfield Lake | 078 | 1.42 (2) | 83 | Station 17+32 | Open Flow Conditions | Open channel cleanout | 20 LF | Remove sediment buildup and vegetation. | L | 13 | Mar 2015 | | No | \$1,000 to \$2,000 | 2-4 years |
| Garfield Lake | 078 | 1.42 (2) | 83 | Outlet at State & Indian Creek to POE at Garfield Lake | Vegetation | Debris removal | 7,500 LF | Remove excessive vegetation and scattered woody debris. | L | 14 | Mar 2015 | | No | \$5,000 to \$7,000 | 4-8 years |
| Bear Creek | 018 | 7.91 (8) | 479 | Crossing at F Drive N | Culvert Crossings | Crossing repair or replacement | 1 Each | Verify positive drainage. Upsize and align if deemed necessary. Remove fallen tree and provide bank stabilization downstream of crossing at Station 146+07. | L | 15 | Mar 2015 | | Yes | \$2,000 to \$3,000 | 3-6 years |



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| Bear Creek | 018 | 7.91 (8) | 479 | Crossing at 18 Mile Rd | Culvert Crossings | Check grade and alignment | 1 Each | Verify positive drainage at crossing at 18 Mile Rd. Check grade and alignment, and re-align if deemed necessary. | L | 16 | Mar 2015 | | Yes | \$1000 to \$4,000 | 3-6 years |
| Willow Creek | 305 | 1.30 (2) | 216 | Crossing at Golden Ave at Station 55+65 | Culvert Crossings | Grade Alignment and Stability | 1 Each | Check culvert alignment and adjust if deemed necessary. | L | 17 | Dec 2014 | | Yes | \$4,000 to \$5,000 | As requested by adjacent landowners |
| Willow Creek | 305 | 1.30 (2) | 216 | Outlet at Kalamazoo River to POE at Mud Lake | Vegetation; Open Flow Conditions | Open channel cleanout, debris removal | 5,300 LF | Remove woody debris, sediment, and vegetation as needed. | L | 18 | Dec 2014 | | No | \$6,000 to \$8,000 | As requested by adjacent landowners |
| Willow Creek | 305 | 1.30 (2) | 216 | Crossing at walking path at Station 49+33 | Culvert Crossings | Stability and Surface Improvements | 1 Each | Remove sediment in culvert. Rehab or replace culvert if needed. | L | 19 | Dec 2014 | | Maybe | \$4,000 to \$5,000 | As requested by adjacent landowners |
| Willow Creek | 305 | 1.30 (2) | 216 | Outlet at Kalamazoo River to POE at Mud Lake | Vegetation | Selective clearing | 5,300 LF | Monitor leaning trees and remove if dead. | L | 20 | Dec 2014 | | No | \$4,000 to \$5,000 | As requested by adjacent landowners |