

County of Santa Clara

2017 Storm Damaged Roads List of Projects

Road Name (alphabetical)	Description of damage	Repair Proposal (applicable within the ROW)	Type of Repair (Interim/Permanent)	Estimated Start of Construction	Estimated Completion	Cost Estimate
Aldercroft Heights Road (Site #1) @ Laurel Rd	Hillside slide onto roadway. County owned parcel.	Will install erosion control blankets to re-establish vegetation.	Permanent Repair	APRIL 2019	MAY 2019	\$ 75,000.00
Aldercroft Heights Road (Site #2): Outside ROW	Hillside slide onto roadway. May be outside ROW.	Will install erosion control blankets to re-establish vegetation.	Permanent Repair	SPRING 2018	SUMMER 2018	
Alma Bridge Road— Not approved by FEMA as a storm damage project due to pre-existing conditions. Will be re-evaluated as a hazard mitigation repair.	One location of road slipout caused by embankment erosion. Road has one lane traffic.	Soil Nail, micropile, block (MSE) retaining wall, and repave to restore road to original width.	Permanent Repair	ON HOLD PENDING PERMIT	ON HOLD PENDING PERMIT	<del>\$ 2,500,000.00</del>
Alum Rock Falls Road (Sites #1 & #2: UPPER & LOWER) - Construction cost revised up due to site constraints. Both Upper and Lower will be repaired as one.	Embankment supporting roadway slipout.	Soil Nail and shotcrete retaining wall.	Permanent Repair	MAR 2019	AUG 2019	\$ 2,500,000.00
Alum Rock Falls Road (Site #2) Duplicate of Site 1	Hillside slide onto roadway.	Soil Nail and shotcrete retaining wall.	Permanent Repair	COORDINATING WITH CSJ	COORDINATING WITH CSJ	
Alum Rock Falls Road (Site #3: MIDDLE) - Construction cost revised up due to site constraints.	Embankment supporting roadway slipout.	Soil Nail and shotcrete retaining wall.	Permanent Repair	MAR 2019	AUG 2019	\$ 1,000,000.00
Arastradero Road (Interim)	One location road slip out caused by creek eroding road embankment.	Sheet pile, restore shoulder, and roadway. Fish ladder downstream - fish bearing stream. Significant regulatory agencies permitting hurdles.	Interim Repair	FALL 2017 (PHASE I)	COMPLETED	\$ 150,000.00
Arastradero Road	One location road slip out caused by creek eroding road embankment.	Sheet pile, restore shoulder, and roadway. Fish ladder downstream - fish bearing stream. Significant regulatory agencies permitting hurdles.	Permanent Repair	SPRING 2019	FALL 2019	\$ 1,500,000.00
Arroyo Honda Road Behind locked gates, will not be repaired.	One location of road slipout caused by embankment erosion.	Remove and replace culvert, restore roadway to original width.	Permanent Repair	SPRING 2018	SUMMER 2018	
Bear Creek Road	Embankment erosion. One lane traffic.	Soil Nail, micropile, block (MSE) retaining wall, and repave to restore road to original width.	Permanent Repair	FALL 2017	COMPLETED	\$ 900,000.00
Black Road (Site #1)	Site #1 of road slipout caused by embankment erosion, resulting to one lane traffic. One location of hillside slide currently ringed by temporary barricades to prevent road closure.	Soil Nail, micropile, block (MSE) retaining wall, and repave to restore road to original width.	Permanent Repair	FALL 2017	COMPLETED	\$ 700,000.00
Black Road (Site #2)	Site #2 of road slipout caused by embankment erosion, resulting to one lane traffic. One location of hillside slide currently ringed by temporary barricades to prevent road closure.	Soil Nail, micropile, block (MSE) retaining wall, and repave to restore road to original width.	Permanent Repair	FALL 2017	COMPLETED	\$ 500,000.00
Calaveras Road (Site #1)	Site #1 hillside slide onto roadway.	Will install erosion control blankets to re-establish vegetation.	Permanent Repair	SPRING 2019	SUMMER 2019	\$ 50,000.00

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Calaveras Road (Site #2)	Site #2 hillside slide onto roadway.	Will install erosion control blankets to re-establish vegetation.	Permanent Repair	SPRING 2019	SUMMER 2019	\$ 50,000.00
Croy Road (Site #1) Will do permanent repair	Site #1 (near Uvas Rd) - road slipout caused by embankment erosion. Road Closed to Through Traffic.	Interim repair - Deep Polymer Injection to strengthen sub-grade and to allow road to be open.	Interim Repair (To remove 5-T restriction) Will do permanent repair	FALL 2017	FALL 2017	
Croy Road (Site #1)	Site #1 (near Uvas Rd) - road slipout caused by embankment erosion. Road Closed to Through Traffic.	Soil Nail, micropile, and repave to restore road to original width.	Permanent Repair	<b>SPRING 2018</b>	<b>COMPLETED</b>	<b>\$ 850,000.00</b>
Croy Road (Site #2) Will do permanent repair	Site #2 (near Sveadal) - road slipout caused by embankment erosion. Road Closed to Through Traffic.	Interim repair - Deep Polymer Injection to strengthen sub-grade and to allow road to be open.	Interim Repair (To remove 5-T restriction) Will do permanent repair	UNDER DESIGN, OCT 2017	NOVEMBER 2017	
Croy Road (Site #2)	Site #2 (near Sveadal) - road slipout caused by embankment erosion. Road Closed to Through Traffic.	Soil Nail, micropile, block (MSE) retaining wall, and repave to restore road to original width.	Permanent Repair	<b>SPRING 2018</b>	<b>COMPLETED</b>	<b>\$ 850,000.00</b>
E. Dunne Avenue	Road slipout caused by embankment erosion.	Soil Nail and repave to restore road to original width. Approximately 0.2 milesouth of Finley Ridge Rd.	Permanent Repair	<b>SPRING 2018</b>	<b>COMPLETED</b>	<b>\$ 800,000.00</b>
Gilroy Hot Springs Road	One location road failure caused by embankment erosion. Road temporarily fixed.	Backfill and recompact with base rock and AC grindings.	Interim Repair	<b>SPRING 2017</b>	<b>COMPLETED</b>	<b>\$ 100,000.00</b>
Gilroy Hot Springs Road (Permanent repair not required. Area not accessible to general public)	One location road failure caused by embankment erosion. BEYOND LOCKED GATE.	Soil Nail and shotcrete retaining wall.	Permanent Repair	SPRING 2018	SUMMER 2018	
Gist Road	Road slip out caused by blown culvert. Road is closed.	Soil Nail, micropile, block (MSE) retaining wall, and repave to restore road to original width. Other traditional methods will be considered also.	Permanent Repair	<b>FALL 2017</b>	<b>COMPLETED</b>	<b>\$ 850,000.00</b>
Metcalf Road (Site #1)	Hillside slide onto roadway. May be outside ROW.	Will install erosion control blankets to re-establish vegetation.	Permanent Repair	SPRING 2019	SUMMER 2019	\$ 75,000.00
Metcalf Road (Site #2)	Hillside slide onto roadway. May be outside ROW.	Will install erosion control blankets to re-establish vegetation.	Permanent Repair	SPRING 2019	SUMMER 2019	\$ 75,000.00
Metcalf Road (Site #3)	Hillside slide onto roadway. May be outside ROW.	Will install erosion control blankets to re-establish vegetation.	Permanent Repair	SPRING 2019	SUMMER 2019	\$ 75,000.00

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Mines Road	One location road failure caused by blown culvert. Road has one lane traffic.	Repair culvert and install rockslope protection.	Permanent Repair	FALL 2017	COMPLETED	\$ 100,000.00
Montebello Road (Site #1, Lower)	Storms saturated uphill slope causing landslide. Landslide blocked ditch causing run-off to flow across the roadway and caused slope embankment failure on downhill slope. Road has one lane traffic.	Soil Nail, micropile, block (MSE) retaining wall, and repave to restore road to original width.	Permanent Repair	FALL 2017	COMPLETED	\$ 700,000.00
Montebello Road (Site #2, Upper)	Blocked ditch from landslide material diverted storms run-off to outboard slope causing erosion and settlement.	Repair shoulder.	Permanent Repair	FALL 2017	COMPLETED	\$ 75,000.00
Montevina Road (Lower Slide, Site #1)	Lower location (Site #1) of road slipout caused by embankment erosion.	Permanent Repair - Deep Polymer Injection (DPI), grind and repave pavement, and install de-watering pipes.	Permanent Repair	FALL 2017	COMPLETED	\$ 80,000.00
Montevina Road (Upper Slide, Site #2)	Upper location (Site #2) of road slipout caused by embankment erosion. Road has one lane traffic at each location.	Permanent Repair - Remove slide material, rebuild failed slope using geogrid with native material, and import engineered fill material (AB Class II). Restore pavement width, repave, restore slope (1.5H:1V), and install erosion control blankets to protect exposed slope.	Permanent Repair	FALL 2017	COMPLETED	\$ 75,000.00
Mt. Madonna Road (Interim Repair)	One location road failure caused by blown culvert. Road is closed.	Repaired and replaced damaged culvert.	Interim Repair	FALL 2017	COMPLETED	\$ 150,000.00
Mt. Madonna Road	One location road failure caused by blown culvert. Road is closed.	Repair and replace damaged culvert, reconstruct road to current design standards and restore to original width.	Permanent Repair	SPRING 2018	SUMMER 2018	
Old Santa Cruz Highway	Hillside slide onto roadway. May be outside ROW.	Will install erosion control blankets to re-establish vegetation.	Permanent Repair	SPRING 2018	SUMMER 2018	\$ 50,000.00
Old Santa Cruz Highway (just above Ogallala Warpath Rd)	Embankment Failure.	Soil Nail and shotcrete wall to restore road to original width.	Permanent Repair	MAY 2019	FALL 2019	\$ 500,000.00
On Orbit Road	Hillside slide onto On Orbit. Private Property. Removed and disposed slide material.	Remove slide material and restore roadway access.	Interim Repair	SUMMER 2017	COMPLETED	\$ 50,000.00
On Orbit Road (slide originated from private property. Outside County maintenance limits.)	Hillside slide from private property onto On Orbit.	Soil Nail and wire mesh shotcrete retaining wall in combination with private property repair.	Permanent Repair	SUMMER 2018 (COORDINATION OF REPAIR WITH PRIVATE PROPERTY)	FALL 2018 (COORDINATION OF REPAIR WITH PRIVATE PROPERTY)	
Redwood Gulch Road (Site #1)	Road slip out caused by blown culvert temporarily repaired to allow one lane traffic operation through slide area.	Repair culvert. Deep Polymer Injection.	Interim Repair	FALL 2017	FALL 2017	
Redwood Gulch Road (Site #1)	Road slip out caused by blown culvert temporarily repaired to allow one lane traffic operation through slide area.	Soil Nail, shotcrete wall, and repave roadway to restore road to original width.	Permanent Repair	SPRING 2018	COMPLETED	\$ 500,000.00
Redwood Gulch Road (Site #2)	Road slip out caused by embankment erosion.	Deep Polymer Injection.	Interim Repair	FALL 2017	FALL 2017	

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Redwood Gulch Road (Site #2)	Road slip out caused by embankment erosion.	Deep Polymer Injection.	Permanent Repair	SPRING 2018	COMPLETED	\$ 200,000.00
San Antonio Valley Road (Site #1)	Road slipout caused by embankment erosion.	Repair and replaced damaged culvert, reconstruct road to current design standards and restore to original width.	Permanent Repair	SPRING 2018	COMPLETED	\$ 1,000,000.00
San Antonio Valley Road (Site #2)	Road slipout caused by embankment erosion.	Soil Nail, micropile, retaining wall, and repave to restore road to original width.	Permanent Repair	SPRING 2018	COMPLETED	\$ 600,000.00
Sanborn Road (Site #1)	Site #1 of road slipout caused by embankment erosion. One lane traffic, length limit, axle limit, and weight limit restrictions.	Soil Nail, shotcrete retaining wall, misc. drainage improvements and repave to restore road to original width.	Permanent Repair	FALL 2017	COMPLETED	\$ 1,200,000.00
Sanborn Road (Site #2)	Site #2 of road slipout caused by embankment erosion. Roadway washed out under pavement. Approximately 12' of HMA pavement has no support. One lane traffic, length limit, axle limit, and weight limit restrictions.	Soil Nail, micropile, block (MSE) retaining wall, and repave to restore road to original width.	Permanent Repair	FALL 2017	COMPLETED	\$ 700,000.00
Sierra Rd	Road slipout caused by embankment erosion. Aproximately 1.3 miles east of Sierra Azul Open Space Preserve parking lot.	Soil Nail, shotcrete buildout, and repave to restore road to original width.	Permanent Repair	SPRING 2018	COMPLETED	\$ 800,000.00
Soda Springs Road (Site #1)	Site #1 road slip out caused by embankment erosion.	Deep Polymer Injection.	Permanent Repair	SPRING 2018	COMPLETED	\$ 150,000.00
Soda Springs Road (Site #1)	Site #1 road slip out caused by embankment erosion.	Soil Nail, shotcrete retaining wall and repave to restore road to original width.	Permanent Repair	FALL 2017	SPRING 2018	
Soda Springs Road (Site #2)	Site #2 road slip out caused by embankment erosion.	Conventional embankment repair (bottom up and slope to 1.5:1)	Permanent Repair	SPRING 2018	COMPLETED	\$ 400,000.00
Soda Springs Road (Site #3)	Site #3 road slip out caused by embankment & driveway erosion on private property.	Deep Polymer Injection.	Interim Repair	UNDER DESIGN, OCT 2017	NOVEMBER 2017	
Soda Springs Road (Site #3)	Site #3 road slip out caused by embankment & driveway erosion on private property.	Soil Nail and repave to restore road to original width. Coordinate repair with private property repair. Revised cost estimate due to potential combined repair with private property to address the entire landslide within the slip plane.	Permanent Repair	REQUIRES COORDINATION OF REPAIR WITH PRIVATE PROPERTY	REQUIRES COORDINATION OF REPAIR WITH PRIVATE PROPERTY	UNKNOWN
Soda Springs Road (Site #4) Duplicate of Site #3	Site #4 road slip out caused by embankment erosion.	Soil Nail, shotcrete retaining wall, and repave to restore road to original width.	Permanent Repair	FALL 2017	SPRING 2018	

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Thompson Road (SLIDE IS OUTSIDE COUNTY MAINTENANCE LIMIT)	One location road slip out caused by embankment erosion. (SLIDE IS OUTSIDE COUNTY MAINTENANCE LIMIT AND MUST BE REPAIRED BY THE OWNERS)	Soil Nail, shotcrete retaining wall, and repave to restore road to original width.	Permanent Repair	FALL 2017 (N/A)	SPRING 2018 (N/A)	
Weaver Road (Site #1) Will do permanent repair	Road slip out caused by embankment erosion.	Deep Polymer Injection.	Interim Repair Will do permanent repair	FALL 2017	FALL 2017	
Weaver Road (Site #1)	Road slip out caused by embankment erosion.	Soil Nail and shotcrete retaining wall.	Permanent Repair	SPRING 2018	COMPLETED	\$ 400,000.00
Weaver Road (Site #2) Will do permanent repair	Road slip out caused by embankment erosion.	Deep Polymer Injection.	Interim Repair Will do permanent repair	FALL 2017	FALL 2017	
Weaver Road (Site #2)	Road slip out caused by embankment erosion.	Soil Nail and shotcrete retaining wall.	Permanent Repair	SPRING 2018	COMPLETED	\$ 900,000.00
Weaver Road (Site #3) Duplicate of Site #2	Road slip out caused by embankment erosion.	Deep Polymer Injection.	Interim Repair	FALL 2017	FALL 2017	
Weaver Road (Site #3) Duplicate of Site #2	Road slip out caused by embankment erosion.	Soil Nail and shotcrete retaining wall.	Permanent Repair	FALL 2017	SPRING 2018	
Willow Springs Road	One location road failure caused by blown culvert.	Replaced culvert, restore roadway to original width	Permanent Repair	FALL 2017	COMPLETED	\$ 100,000.00
Wright Station Road (Site #1) Slide is outside County maintenance limits.	Site #1 of road slipout caused by embankment erosion.	Remove vegetation, slide material, place AC grindings and AB, and install dirt berm.	Interim Repair	SUMMER 2017	COMPLETED	\$ 50,000.00
Wright Station Road (Site #1) Slide is outside County maintenance limits.	Site #1 of road slipout caused by embankment erosion.	Soil Nail, shotcrete retaining wall, and repave to restore road to original width.	Permanent Repair	SPRING 2018	SPRING 2018	
Wright Station Road (Site #2) Slide is outside County maintenance limits.	Site #2 of road slipout caused by embankment erosion.	Soil Nail, micropile, block (MSE) retaining wall, and repave to restore road to original width.	Permanent Repair	SPRING 2018	SPRING 2018	
Wright Station Road (Site #3) Slide is outside County maintenance limits.	Site #3 of road slipout caused by embankment erosion.	Soil Nail, micropile, block (MSE) retaining wall, and repave to restore road to original width.	Permanent Repair	SPRING 2018	SPRING 2018	
Wright Station Road (Site #4) Slide is outside County maintenance limits.	Site #4 of road slipout caused by embankment erosion.	Soil Nail, micropile, block (MSE) retaining wall, and repave to restore road to original width.	Permanent Repair	SPRING 2018	SPRING 2018	
TOTAL NUMBER OF SITES: 48						
* Most locations scheduled to start construction for permanent repairs in Spring 2018 or later will receive interim improvements and/or temporary slope stabilization treatments.						
					<b>Total Estimated Repair Cost</b>	<b>\$ 22,380,000.00</b>