

flood SAFE Yolo 2.0

November 7, 2019

FSY 2.0 – Madison Flood Risk Reduction Projects

The Goal is to implement all the high-priority projects by 10/31/2019 and to implement the remaining medium-priority projects by 11/15/2019.

Red = High Priority

Yellow = Medium Priority

Green = Completed Project

Blue = Low Priority

#	Project	Status	Jurisdiction	Implementing Entity and PM	Cost (actual or estimated)
1	Madison Flood Study	In revision for 25-year event evaluation - Due 10/25 Using elevations now for design and construction	Commissioned by YCPWD	YCPWD	YCPWD \$74,000
2	Install flap gates on 3 pipe outlets into Madison Drain on Rudolph Street	Completed as of 10/28	YC Roads	YC Roads	YC Roads Annual O&M Fund? \$4,000
3	Install new 48” diameter culvert with headwalls on Madison Drain at Tutt Street	Awarded to Kuam Engineering – YCFC clear gabion section on 10/22 - kick off on 11/4 with Quam and complete by 11/14 at latest but could be much sooner	YC Roads	YC Roads or possibly YCFC	\$100,000 est Madison Flood Mit Funding (MFM)
4	Create impermeable barrier along Tutt using gabion in place	YCGAO right-to-enter agreement scheduled completion 10/24	1)YC PWD ROW 2)Community “property” 3)YCFC obligation to remove/not remove	YCFC YC Roads	YC MFM \$15,000

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#	Project	Status	Jurisdiction	Implementing Entity and PM	Cost (actual or estimated)
5	Install temporary barrier along Hurlbut Street	Underway – Complete on 11/12	YC Roads	YCFC	\$20,000 - \$30,000
6	Rehabilitate Drainage Ditch west of gabion on Tutt Street	Vegetation Clearing completed 10/14, Guniting on 10/24, Ditch work to be completed by 11/11 3' trench with small excavator	1)YC PWD ROW 2)Community “property” 3)Long-Term O&M undetermined at this time	YCFC	YC MFM \$25,000
7	Permanently seal culvert under Tutt Street at Archer Street	Scheduled by YC Roads to implement -done by 10/26	YC Roads	YC Roads	YC Roads Annual O&M Fund? \$2,000
8	Install flap gate on culvert at Hurlbut and Stephens Street	Scheduled by YC Roads to implement -Likely completed by 10/31	YC Roads	YC Roads	YC Roads Annual O&M Fund? \$1,500
9	Replace drainage feature from Guy’s Corner into Madison Drain	No longer required.	YC Roads	YC Roads with support from YCFC	YC Roads Annual O&M Fund? \$3,000
10	Repair bridge pier footing at crossing of CR 89 and Madison Drain	Site visit with Quincy Engineering on repair options – 10/22 Backfill and compaction - 10/28 Repair tbd by 11/15	YC Roads or MFM	YCFC with support from YC Roads	Eval - \$13,000 Repair - \$30,000
11	Clear accumulated sediment from under bridge at crossing of CR 89 and Madison Drain after footing repair	Safe height of earthen floor is top of footing – clearing complete	YC Roads	YC Roads	\$4,000

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#	Project	Status	Jurisdiction	Implementing Entity and PM	Cost (actual or estimated)
12	Vegetation removal on Cottonwood Slough south of Madison	Underway Anticipated completion by 11/30 Consider additional crews from Calfire and Prisons	MERCOSA obligation	YCFC	MERCOSA assessment \$15,000
13	Clear ditch and possibly rehab or replace or augment culvert on east side of Tutt Street between Hwy 16 and Rudolph Street	Will USA for ditch cleaning now that Caltrans work in the area is completed 10/22 (confirmed with Mohssen) Will look to clean out existing driveway culvert this year and evaluate performance. Modelling did not recommend any culvert replacement work.	YC Roads	YC Roads	\$2,000 - \$10,000
14	Install pipe and flap gates at terminous of drains on east side of CR 89 at Madison Drain (1 comes from lumber yard on south side and 1 comes from comm property on north side)	Newly identified projects in field as of 10/15. Panos on point to direct YC Roads on installation plan. Expected install by 11/15. 48" with flap on south side New flap on north side	YC Roads	YC Roads	\$6,000
15	Improve internal drainage network at Madison (multiple locations)	Recon visit on 11/6 by multiple team members. Speculation on repairs and timing on 11/7	YC Roads and Private Land Owners	YC Roads possibly via commercial contractor	MFM? \$100k?

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#	Project	Status	Jurisdiction	Implementing Entity and PM	Cost (actual or estimated)
16	HWY 16 Safety Improvement	Near Completion – expected demob 11/14 unknown if project alters flood conditions	Caltrans	Caltrans Contractor is OC Jones Site Manager	Caltrans n/a
17	Madison Drain Veg Mgmt West of Tutt	Completed to just past Oakdale Ranch Lane	MERCESA obligation	YCFC	MERCESA assessment \$3,000
18	Madison Drain Veg Mgmt from Tutt to Madison CSD Treatment Ponds	Completed and deepened & widened – need final grading after utilities are addressed	MERCESA obligation	YCFC	MERCESA assessment \$5,000
19	Rehab drainage ditch along Hurlbut Street	Completed by YC Roads	YC Roads	YC Roads	YC Roads Annual O&M Fund? \$2,000
20	Clear culverts under CR 89 at Hurlbut and remove concrete apron on west side	Completed by YC Roads	YC Roads	YC Roads	\$5,000
21	Rehab county road internal drainage ditches in Madison	Completed by YC Roads	YC Roads	YC Roads	YC Roads Annual O&M Fund? \$4,000
22	Rehab/regrade drainage ditch on east side of CR 89	Completed	YC Roads	YC Roads	YC Roads Annual O&M Fund? \$3,000
23	Rehab drainage ditches on west side of CR 89	Completed by YC Roads	YC Roads	YC Roads	YC Roads Annual O&M Fund? \$1,000
24	Create Bench on Madison Drain east of CR 89	Completed to first 90-degree bend at Migrant Housing area	MERCESA obligation	YCFC	MERCESA assessment \$5,000

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#	Project	Status	Jurisdiction	Implementing Entity and PM	Cost (actual or estimated)
25	Trench and bury CSD Water Main on Madison Drain at Rudolph Street and Scott Street	Underway Anticipated completed on 10/16	MERCOSA obligation	YCFC	MERCOSA assessment \$2,000
26	Increase elevation of south bank of Madison Drain from Tutt Street to CR 89	Underway – material placed and will compact & shape soon – completed 10/18	MERCOSA obligation	YCFC	MERCOSA assessment \$5,000
27	Rehab twin culverts on Madison Drain under farm road at SE corner of CSD Treatment Ponds	Underway – LWD removed and assessing effort to clean out culverts Also – considering longer term replacement options	MERCOSA obligation	YCFC	MERCOSA assessment \$3,000
28	Replace wooden “box” culvert in east ditch of CR 89 at Lumber Yard with County designed culvert	Modelling suggests that replacement is not imperative at this time and may be considered in 2020	YC Roads	YC Roads	YC Roads Annual O&M Fund? \$10,000
29	Replace drain pipe from DI near Bus Stop to Madison Drain	End of pipe removed during drain rehab. DI appears clogged at this time. If time allows, open trench, repair, and include flap gate.	YC Roads	YC Roads w/support from YCFC	YC Roads Annual O&M Fund? \$4,000

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#	Project	Status	Jurisdiction	Implementing Entity and PM	Cost (actual or estimated)
30	Related – Hwy 16 improvement study	Wood Rodgers ready to initiate – kick off meeting approximately 11/10	Caltrans, YC Roads	YCFC, YC Roads, Yocha DeHe	
31	New Flap Gate on Madison Drain Pipe near Viking	TBD			
32	Hydroseed exposed berms on Madison Drain	In discussion with OC Jones			
33	Assist citizens with ditches and culvert in Madison	Scheduling effort for week of 11/20			
34	Raise Hurlbut and 89 roadway base	Newly discussed on 10/31 to implement soon			
35	Raise headwall of culvert at Hurlbut and 89 to connect to block wall	TBD			
	Parking Lot	Longer Term & Speculative Projects			
A	New Ordinance County Wide to Regulate Berm Heights on either side of channels				
B	Rehab culverts on east side of Hwy 505 on Madison Drain on private farm road (Circle G?)	Private land owner agreed to Winter removal and other seasonal use of temporary culvert supplied by District			

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#	Project	Status	Jurisdiction	Implementing Entity and PM	Cost (actual or estimated)
C	Vegetation mgmt in Willow Slough near CR 90/Madison Drain/Hwy 505	May need to examine this as part of 2019 efforts.			
D	Vegetation mgmt on CR 90 on Cottonwood Slough		YC Roads	YC Roads	
E	Verify Caltrans' new ROW in Madison Drain and Willow Slough adj to Hwy 16	Mohssen was surprised on 10/22 that we had not been contacted yet by Caltrans on this issue. He is recontacting them about it. Tom has contact info for Caltrans' ROW lead			
F	Install permanent pump in Madison at Railroad & Archer to drain town into Madison Drain	Leo has pump that can be deployed this year. May need to rent second pump. Continue to investigate permanent pump installation.			
G	Consider permanent berm on Hurlbut	Many ideas suggested, but needs final design and cost estimate – likely involves expansion of ROW to the south into orchard			

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#	Project	Status	Jurisdiction	Implementing Entity and PM	Cost (actual or estimated)
H	Acquire open space land on east side of Madison and convert to amenity for community and floodwater detention				
I	Increase elevation of north bank of Cottonwood Slough south of Madison	May need County Wide Ordinance in place first	MERCSA obligation	YCFC	MERCSA assessment \$5,000
J	Monitor flow issues with Caltrans' new configuration at Tutt and Hwy 16	Mohssen is updating design to include rip rap on Hwy 16 drain at this location. He "recommended" that "we" do the same by armoring the inside of Madison Drain at this location.	TBD – waiting on verification from Caltrans that this is their jurisdiction now.	TBD	
K					
L					