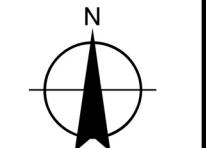




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MA03351 DANIELSON MILL DAM

MEDFIELD, MA
EMERGENCY ACTION PLAN
TOWN OF MEDFIELD

1"=400'
0" 1"
BAR IS ONE INCH ON
ORIGINAL DRAWING

PROJECT NO.: 19126.01
DATE: OCTOBER 2020
SCALE: AS NOTED
DRAWN BY: SJP
APPROVED BY: AO
DESIGNED BY: AC

DANIELSON
MILL DAM
INUNDATION
MAP

Number	Primary River Crossings	River Mile	Base Flow (CFS)	Arrival Time (hrs:min)	Time to Peak (hrs:min)	Base Water Elevation (ft)	Roadway / Dam Elevation (ft)	Freeboard at Peak WSEL (ft)	Notes
SUNNY DAY - NON FAILURE									
1	MA03351 Danielson Pond Dam	0.0	1.0	N/A	N/A	145.8	146.9	1.1	Dam >2 ft from Overtopping Under Normal Conditions.
2	Homestead Drive	0.0	1.0	N/A	N/A	138.1	150.4	12.3	
3	South Street	0.2	1.0	N/A	N/A	127.9	133.7	5.8	
6	Causeway Street	3.3	36.5	N/A	N/A	113.7	118.5	4.8	
7	Charles River (DS Limit)	4.6	36.5	N/A	N/A	113.4	113.4	0.0	
SUNNY DAY - FAILURE									
1	MA03351 Danielson Pond Dam	0.0	440	0:00	0:08	145.8	146.9	1.1	Dam Fails
2	Homestead Drive	0.0	140	0:03	0:10	145.4	150.4	5.0	
3	South Street	0.2	100	0:11	1:48	132.6	133.7	1.1	Road >2 ft from Overtopping Road Failure Possible Close/Monitor Road
6	Causeway Street	3.3	50	4:56	10:04	114.4	118.5	4.1	
7	Charles River (DS Limit)	4.6	50	5:17	10:25	114.1	113.4	-0.7	Charles River Rises 0.7 ft at Confluence with Stop River

Number	Primary River Crossings	River Mile	Peak Flow (CFS)	Arrival Time (hrs:min)	Time to Peak (hrs:min)	Peak Water Elevation (ft)	Roadway / Dam Elevation (ft)	Freeboard at Peak WSEL (ft)	Notes	Conclusion	Action
Wet Weather - NON FAILURE											
1	MA03351 Danielson Pond Dam	0.0	270	N/A	N/A	147.6	146.9	-0.7	Dam Overtops	Dam Failure Likely	Monitor/Restore Dam
2	Homestead Drive	0.0	200	N/A	N/A	147.4	150.4	3.0			
3	South Street	0.2	170	N/A	N/A	134.1	133.7	-0.4	Road Overtops	Road Failure Likely	Close/Monitor Road
6	Causeway Street	3.3	865	N/A	N/A	116.6	118.5	1.9	Road >2 ft. from Overtopping	Road Failure Possible	Close/Monitor Road
7	Charles River (DS Limit)	4.6	865	N/A	N/A	115.2	113.4	-1.8	Charles River Rises 1.8 ft. at Confluence with Stop River.		
Wet Weather - FAILURE											
1	MA03351 Danielson Pond Dam	0.0	550	0:00	0:28	147.6	146.9	-0.7	Dam Overtops	Dam Fails	Monitor/Restore Dam
2	Homestead Drive	0.0	260	0:02	0:33	147.6	150.4	2.8			
3	South Street	0.2	180	0:25	1:25	134.2	133.7	-0.5	Road Overtops	Road Failure Likely	Close/Monitor Road
6	Causeway Street	3.3	865	N/A	N/A	116.6	118.5	1.9	Effects of Dam Failure Negligible at this Location		
7	Charles River (DS Limit)	4.6	865	N/A	N/A	115.2	113.4	-1.8	Effects of Dam Failure Negligible at this Location		

