

Storm Water Flooding Mitigation Projects for CIP

G. Seiz
5/13/2015

Priority	Project Location	Description	Design	Construction	Construct Admin.	Project Total	Petition Received Y/N
High FY - 15/16	Adjacent to PW	Streambank stablization PW side only and include eroded area along Morgan Creek. To do both sides and fill scour hole	\$34,700 \$58,500	\$81,000 plus \$22,500 for Morgan design Work done in house. \$243,000	\$12,200 \$36,600	\$127,900 \$338,100	No
High FY 15/16	Tom's Creek Lorrain, Carol Rainbow	Upgrade culverts under Lorraine, Carol, and Rainbow Lorrain Replace 66" pipe with 96" RCP Carol Replace 2-36" w/72" Rainbow Replace 2-30" pipes with a 72" (minimal benefit, needs more review No dwellings removed from 100 yr)	\$13,100 \$12,800 \$9,300	\$87,300 \$85,200 \$62,000	\$13,100 \$12,800 \$9,300 Total	\$113,500 \$110,800 \$80,600 \$304,900	Yes
Med High** FY 16/17	1020 West Main ** The existing 24" storm sewer is located on private property, subsequently there is question if Town is responsible.	Alt. 1 Remove existing 24" and construct ditch entire distance to Main St. Alt 2 - Replace eixisting 24" with 3-36" and tie into existing storm system in West Main St. Alt 3 - Ditch- pipe combination	\$8,300 \$36,200 \$23,300	\$55,000 \$241,000 \$155,000	\$8,300 \$36,200 \$23,300	\$121,600 \$323,400 \$221,600 plus \$20,000 for easements	Letters
Middle FY 16/17	408 Broad St	Alt. 1 replace 24" culvertw/54' Alt. 2 Pave portion of roadway and armor downstream fill slope to protect when overtopped.	\$5,000 \$2,600	\$33,000 \$17,000	\$5,000 \$2,600	\$43,000 \$22,200	Letters
Middle FY16-17	Old Pittsboro	Alt. 1 - construct adeqautes size drainage system - connect to ex. at S. Greensboro and run to 108.	\$50,000	\$333,400 plus \$20,000 easements	\$50,000	\$453,400	yes

		Alt. 2 - same but different align. in street	\$65,400	\$436,000	\$65,400	\$566,800	
		Alt. detention facility considered but above options more cost effective.					

Lower FY 17/18	Morningside Dr.	Replace existing 24" culvert with 3 - 30" culverts, some CB's & curb work.	\$11,600	\$77,000	\$11,600	\$100,200	Calls
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Lower FY 17/18	Culvert pipes under PW Drive	Replaced existing dual 90" cmp with dual 96"	\$24,300	\$162,000	\$24,300	\$210,600	PW
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Comments

Stream has changed course eroding bank adjacent to PW.
Fence and structure in jeopardy. Section along Morgan
would impact mulch area if more erosion.
Same reason - cost would about triple per Sungate

***Flood related damage 100 James, 115, 116 and 118 Carol
400 Lorraine and 200 Rainbow from 6/30/13 storm.
overtopped road on 6/30/13.***

Pipe under Lorraine has corroded invert.
Periodic nuisance flooding occurs in yards
during significant rainfalls
Benefit of enlarging Rainbow culvert needs to be reviewed
as no dwellings will be removed from 100 yr. floodplain

24" storm sewer thru church property backs up during
heavy rainfall.

***Flooding of crawl space 1020 W. Main. Inundation of area
around 1020 and also 121A-B Goldston***

In Sungate's opinion the increase in impervious area since
1998 does not support the property owner's assertion
that upstream development and associated
impervious area were causing or exacerbating his
flooding problems

***Road overtopped 6-30-13, eroded road and private
property. Inlet of 24" VCP in poor shape. No structure
damage. \$10,000 for emergency repair or road and slope.***

Apparently overtopped one time before per David P.

***Water comes out of ditch, covers road and causes some
wash out on private property. Not aware of any damage
to homes.***

Road floods from outfall to roughly 106 Old Pitsboro.

Flooding of property at 104 Old Pittsboro and at 100 Carr St. on 6-30-13.

Water overtops roadway.

Periodic nuisance flooding at 103,105, 107 Morningside.

Mostly at 105. Structures have not been impacted.

Driveway access to 103 & 105 impacted when area floods

Alternative - accept nuisance flooding in yard but

105 raise or eliminate parking area and raise driveway.

Existing CMP in poor condition with inverts eroded.

Will eventually need to be replaced to avoid future failure.