Attachment L
Flow Depths Comparison

Modification 1: Constructing all portions of 3G7.0, without Maryland Ave. Culvert and with four buildings remaining in place

Modification 2: Constructing all portions of 3G7.0, including Maryland Ave. Culvert, and then placing buildings back in current location (assuming one foot above current elevation)

Each scenario is presented in relation to implementation of the entire plan, for both the 100 Year and July 2016 Storms

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Report Content: 4 Pages
HIGHEST AT-GRADE BUILDING ELEVATION ALONG MAIN ST.
*CALCULATED AS MAX WSEL AGAINST BUILDING COMPARED TO 3 FT OF FLOODING*
BUILDINGS WITH GREATER THAN 145 FT OR MORE = 0
BUILDINGS FLOODED BY 3 FT OR MORE = 0

MODIFICATION
MODIFICATION 1
MODIFICATION 2
MODIFICATION 3

HATCHED BUILDINGS EXPERIENCE GREATER THAN 3 FT OF FLOODING
BUILDINGS EXPERIENCE 2 FT - 4 FT OF FLOODING OR GREATER
BUILDINGS REMAIN IN PLACE
BUILDINGS REMAIN IN PLACE NOT COMPLETED AND THE 4 HIGHER WHEN MD AVE PROJECT IS COMPLETED AND THE 4 LOWER  BUILDINGS REMAIN IN PLACE

SCENARIO 3.G.7.0 WITH MD AVE PROJECT VS. 3.G.7.0 WITHOUT MD AVE PROJECT AND 4 LOWER BUILDINGS REMAINING IN PLACE

[Map showing flood risk with color coding and legend]
BUILDINGS WITH GREATER THAN 3 FT OF FLOODING

BUILDINGS FLOODED BY 1.5 FT - 3 FT

BUILDINGS REMAIN IN PLACE WHEN MD AVE PROJECT IS NOT COMPLETED AND LOWER 4 BUILDINGS REMAIN IN PLACE.

3. G. 7.0

SCENARIO

MODIFICATION

7/30/16 STORM EVENT

WSEL DIFFERENCE

COMPARING THE PROJECT'S EFFECTS WITH THE BASE CASE - FIRST FLOOD SUMMER IN PLOUGH

SCALE: 1"=50'
HIGHEST AT-GRADE BUILDING ELEVATION ALONG MAIN ST.

CALCULATED AS MAX WSEL AGAINST BUILDING COMPARED TO 3 FT OF FLOODING

BUILDINGS WITH GREATER THAN 145 BUILDINGS FLOODED BY

3 FT OR MORE = 0 BUILDINGS FLOODED BY

MD 144 FREDERICK ROAD

MD 144 FREDERICK ROAD

MD 144 FREDERICK ROAD

MD 144 FREDERICK ROAD

REMAIN IN PLACE COMPLETED AND THE 4 BUILDINGS

HIGHER WHEN MD AVE PROJECT IS

DEPTH IN MAIN ST IS 1 TO 2 FT GREATER THAN 3 FT OF FLOODING

HATCHED BUILDINGS EXPERIENCE

GREATER THAN 3 FT OF FLOODING

HATCHED BUILDINGS EXPERIENCE

SCENARIO 3.G.7.0 WITH MD AVE PROJECT VS. 3.G.7.0 WITH 4 LOWER MODIFICATION

SCENARIO 3.G.7.0

BYPASS CONSTRUCTION IS STREAM WALL AFTER MD AVE

0 FT - 0.5 FT NO. OF BUILDINGS WITH 3' OF FLOODING OR GREATER

1 FT - 2 FT 145

2 FT - 4 FT 2

> 8 FT 0

6 FT - 8 FT 1

1 FT - 2 FT

3.G.7.0

0.9 FT 2

7.2 FT 1

10.4 FT 2

100 YR

MD AVE DEPTH GRAPHICS 100 YEAR STORM EVENT

SCALE: 1"=50'

PAGE 3
**HIGHEST AT-GRADE BUILDING ELEVATION ALONG MAIN ST.**
*CALCULATED AS MAX WSEL AGAINST BUILDING COMPARED TO 3 FT OF FLOODING*

BUILDINGS WITH GREATER THAN 145 FT OR MORE = 9 BUILDINGS FLOODED BY M D 144 FR E D E R IC K  R O A D

REMAIN IN PLACE COMPLETED AND THE 4 BUILDINGS DEPTH IN MAIN ST IS 2 TO 4 FT /

GREATER THAN 3 FT OF FLOODING HATCHED BUILDINGS EXPERIENCE SCENARIO 3.G.7.0 WITH MD AVE PROJECT VS. 3.G.7.0 WITH 4 LOWER MODIFICATION

SCENARIO 3.G.7.0 WITH LOWER 4 BUILDINGS REMAINING IN PLACE.

BYPASS CONSTRUCTION IS STREAM WALL AFTER MD AVE BUILDINGS TO BE PLACED OVER

SCALE: 1"=50' 7-30-16 STORM EVENT

MD AVE DEPTH GRAPHICS 7-30-16 STORM EVENT