

Harlem Heights / Fairwold Acres Area Drainage Study Community Meeting #1 September 17, 2015

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NEIGHBORHOODIntroductions





- Dana Higgins, PE, City Engineer
- Mike Jaspers, PG, Stormwater Manager
- Councilman Sam Davis, Columbia City
 Council
- Senator John L. Scott, Jr., District 19



P.J. Noble and Associates, Inc.

- Pat Noble, President and CEO
- Gwendolyn Singletary

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 Trevor Gauron, PE, Project Manager Hal Clarkson, PE, CFM, Project

Director







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>Process

>Schedule

Your Neighborhood







Study Purpose

- Harlem Heights experiences localized flooding following certain rain events
- City of Columbia wants to help alleviate problems to the extent practicable
- Reduce flooding depth and frequency
- Maintain access to community











Terminology

- Watershed
- Hydrology
- Hydraulics
- Design storm
- XP-SWWM
- Level of Service
- Mitigation
- High Water Mark







>Introduction >Purpose		>Process	>Schedule	>Questions/Answers

Data Gathering

Hydrologic Considerations

- How much rain falls from the sky?
- How much rain water soaks into the ground?
- How much rain water flows over land?
- How fast does the localized flooding recede?

Local Hydrologic Cycle









>Introduction	>Purpose	>Process	>Schedule	>Questions/Answers
Design	Storm			

For a 6-hour storm event:







>Introduction	>Purpose	>Process	>Schedule	>Questions/Answers
Data G	Sathering			

- Review available data from City
 - Complaint records
 - Past events
 - Recent maintenance / construction activities







>Introduction

Watershed Area















>Schedule

>Questions/Answers

Field Survey







>Introduction	>Purpose	>Process	>Schedule	>Questions/Answers
Data (Gathering			

- Eyewitness accounts
 - Flood limits and high water marks
 - Flood rise and fall times
 - Debris accumulations









High Water Marks







>Questions/Answers

>Introduction	>Purpose	>Process	>Schedule	>Questions/Answers
Data Gath	perina _ Rain	fall Dat	Ο	









Used to verify:

- areas of flooding
- other areas of potential flooding
- determine level of service of existing drainage system



















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>Introduction	>Purpose	>Process	>Schedule	>Questions/Answers
Project Tas	k Name		Approxii	mate Date
Field Surve	y and & Data G	athering	July – Au	igust 2015
Community	Meeting #1		Septemb	er 17, 2015
Hydraulic S	tudy		September – I	December 2015
Community	Meeting #2		Janua	ry 2016
Alternative	s Analysis		October – J	anuary 2016
Community	Meeting #3		Februa	ary 2016
Design Serv	vices		Sprin	g 2016
Constructio	n		To Be De	etermined











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