

FW: Water and sewer Master Plan amendment

Feldmark, Jessica

Sent: Tuesday, March 22, 2016 11:16 AM**To:** Ball, Calvin B; Fox, Greg; Greg Fox (Greg.Fox@Constellation.com); Weinstein, Jon; Sigaty, Mary Kay; Terrasa, Jen**Cc:** Sayers, Margery; Clay, Mary; Knight, Karen; McLeod, Kate; Pruum, Kimberly; Smith, Gary**Attachments:** Memo.PublicHearingVerbalTe~1.pdf (165 KB) ; EXHIBIT 1 as 11x17.pdf (5 MB) ; EXHIBIT 2East as 11x17.pdf (5 MB)

Please see below and attached as follow-up from last night's hearing on CR36-2016.

Jessica Feldmark

Administrator

Howard County Council

410-313-3111

jfeldmark@howardcountymd.gov

From: Sager, Jennifer**Sent:** Tuesday, March 22, 2016 11:03 AM**To:** Feldmark, Jessica**Subject:** Water and sewer Master Plan amendment

See the attached written testimony from Don Campbell regarding the w/s master plan amendment. Also see below for an explanation of the maps that are attached.

Should I send it to all the councilmembers?

"Also, Councilman Fox asked for a Word version of the Master Plan to view the "Tracked Changes" revisions to the old Master Plan. I'm sorry to say that a markup version of the Word document does not exist. The updates and revisions by all of the various review agencies (including County Health Department, Planning & Zoning, Bureau of Engineering) became so unwieldy that we ultimately produced a new clean document.

Please extend my apologies to Mr. Fox. It was my intent to identify and describe all of the substantive updates and revisions in the testimony to the Council so that they were aware of any issues that may be of concern to the public. I have attached reduced-size versions of the water and sewer master plan maps that are suitable for printing at 11x17 size and attaching to the testimony. These maps show in red ALL of the modifications to the Planned Service Area since 2011 and may be of interest to Mr. Fox. Full size versions of these maps are contained in the appendix of the Master Plan books as Exhibits 1 and 2."



Howard County
Internal Memorandum

Subject: 2015 Amendment of the Howard County Master Plan for Water & Sewerage

To: Howard County Council Public Hearing, March 21, 2016

From: Don Campbell,
Water & Sewer Planning Division, Manager
Department of Public Works

Date: March 21, 2016

Presented below is the verbal testimony for the County Council resolution to approve the 2015 Amendment of the Master Plan for Water & Sewerage.

The Department of Public Works is seeking approval of the 2015 Amendment of the Howard County Master Plan for Water and Sewerage in accordance with Section 22.405 of the County Code.

Title 9, Subtitle 5 of the Annotated Code of Maryland requires that each County develop and maintain a Master Plan to provide for the orderly expansion of the local public water and sewerage systems. The Plan must be consistent with the County's General Development Plan and with the growth and development projections prepared by the Department of Planning & Zoning.

The last major Master Plan Amendment was the 2011 Master Plan adopted by the County Council in October 2012. The 2015 Amendment is a comprehensive update and revision of the 2011 Amendment and will replace the 2011 Master Plan in its entirety.

The Master Plan consists of 4 Chapters, followed by supporting documents included as Exhibits 1 through 13.

CHAPTER 1 provides an overview of the County's W & S planning and organizational structure.

CHAPTER 2 provides geographic and demographic data.

CHAPTER 3 is the Water Plan, and

CHAPTER 4 is the Sewerage Plan.

CHAPTER 1:

Chapter 1 describes the organizational structure and processes that are in place to provide for the orderly management and expansion of the water & sewer infrastructure and to maintain consistency with County development policies. The preparation of the 2015 Master Plan was coordinated with the County's comprehensive development plan (i.e., General Plan 2000 and

the PlanHoward 2030 update) and with the staff within the Department of Planning & Zoning.

Water & sewer planning for Howard County is organized into two major planning regions: the Planned Service Area and the No Planned Service area. Several changes to the Planned Service Area (PSA) were implemented following the adoption of the 2011 Master Plan and are now incorporated into the 2015 Amendment. These changes were implemented either **by amendments to General Plan 2000 or by the adoption of PlanHoward 2030** by the County Council in August 2012 (with supplemental amendments through 2014).

Chapter 1, Section 1.3 of the Master Plan describes the revisions to the PSA that have been implemented as follows:

1. A Board of Education parcel and adjacent parcels in **west Ellicott City** (north of Frederick Road, south of U.S. 40 and east of Marriottsville Road), which were previously in the Water Service Only area, were added to the Sewer Service area;
2. The historic **Doughregan** property was added to the PSA; and
3. **Four parcels in the Clarksville area and one parcel in the Fulton area** (Maple Lawn Farms South) were added to the PSA under PlanHoward 2030.

The water and sewer infrastructure requirements for these revisions are addressed in Chapters 3 and 4.

CHAPTER 2:

In Chapter 2, we have County geographic and demographic data that were reviewed and updated where appropriate. The most significant changes were the population and development projections presented in the Tables included with the Chapter.

The 2015 Amendment utilizes the “**Round 8A**” **population and commercial development projections** provided by Planning & Zoning to project the future water and sewer system flows and infrastructure needs. The water and sewerage **infrastructure needs through the year 2040** were evaluated based on the DP&Z projections, which are tabulated in Tables 1 through 1C of Chapter 2.

CHAPTERS 3 and 4 provide the Water Plan and the Sewer Plan.

The capacities of the **water and sewer systems were each evaluated** using digital hydraulic models to determine when and where system upgrades will be required to meet demands through the planning period.

The **water and sewer service priority categories** for parcels within the Planned Service Area were updated and revised where appropriate to reflect the progress of existing and new

development since the last Plan update. The maps and tables presented later in **EXHIBITS 1 and 2** identify each of these revisions.

Chapters 3 and 4 were also updated to report the **progress of other projects inside and outside of the County** that are necessary for the County's future water supply and wastewater treatment needs including (1) water supply improvements to Baltimore City's Second and Western Third Water Zones, and (2) upgrade of Baltimore City's Patapsco Wastewater Treatment Plant. These projects are coordinated with both the Baltimore City and Baltimore County public works departments.

CHAPTER 3:

In addition to the aforementioned updates and revisions, the following sections of Chapter 3 were updated:

1. Section 3.10, titled Required Local System Improvements

This section identifies the capital water system projects in the County's individual water pressure zones that are necessary to satisfy future demands. **Table 8 is a comprehensive listing** of planned capital and private developer water projects.

2. Section 3.11 Water Quality Modeling

The digital hydraulic model was used to evaluate the water residence time (or "water age") within the distribution system, which is a factor that can affect water quality. Section 3.11 identifies several areas of concerns and provides recommendations for improvements.

3. Section 3.13 Financing Water Improvements

This section describes the Department of Public Works' fiscal management of the water system along with the various fees and rate schedules that fund the water system.

4. Figure 3-4: Immediate, 5-Year, 10-Year and Comprehensive Priorities Plan for Water System Development

This map displays planned major water system projects and the timeframe for implementation.

CHAPTER 4

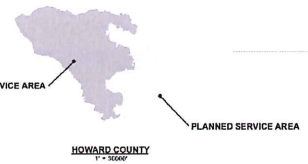
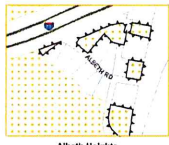
In addition to the aforementioned revisions, the following sections of Chapter 4 were updated:

1. Section 4.3, titled Consent Agreement.

This section describes the status of the Consent Agreement that was established between Howard County and MDE in March 2010 to implement corrective actions to prevent potential sewer overflows.

EXHIBIT 1 HOWARD COUNTY MASTER PLAN FOR WATER AND SEWER WATER

NOVEMBER 2015

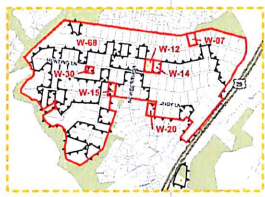
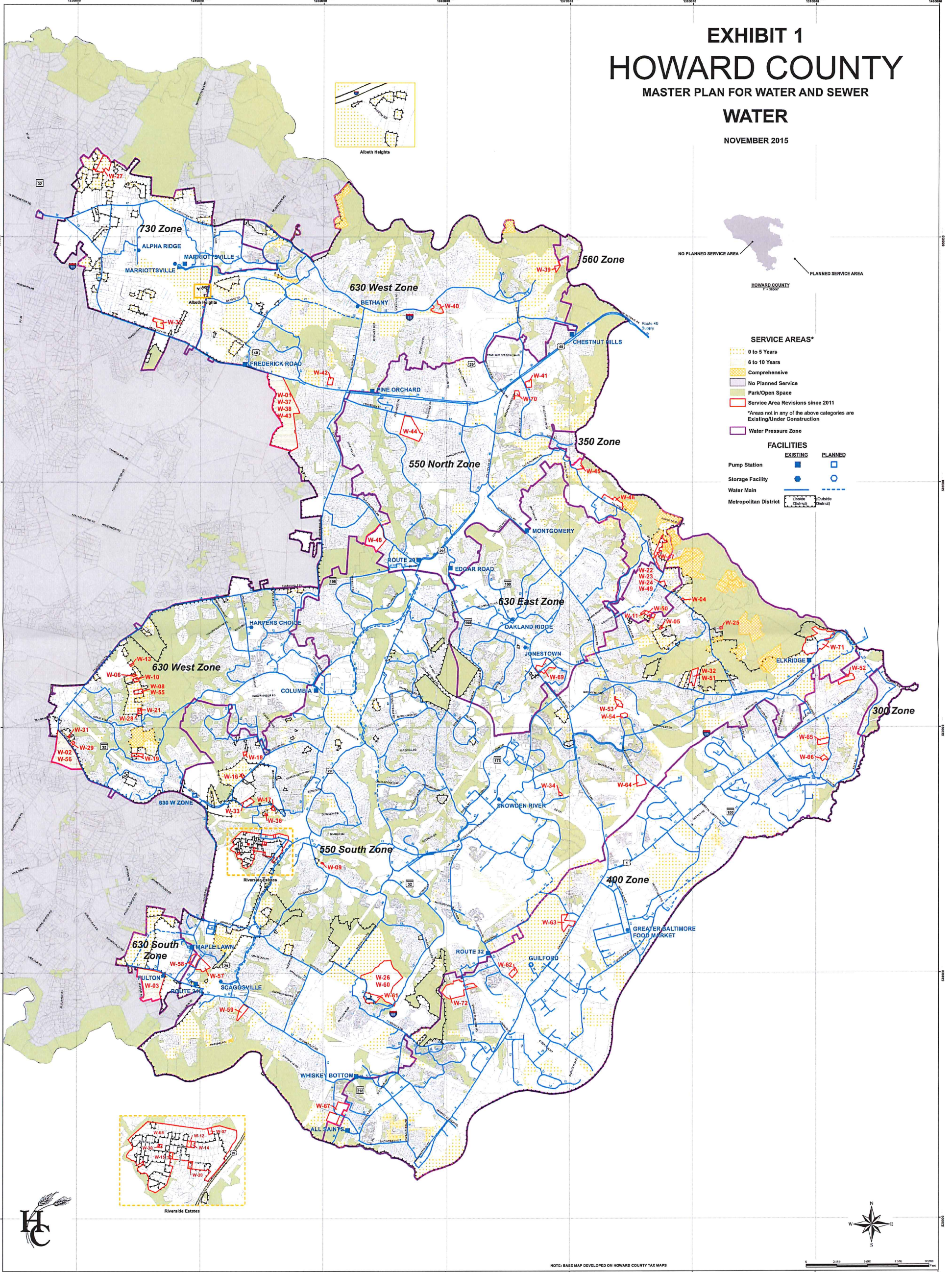


SERVICE AREAS*

- 0 to 5 Years
- 6 to 10 Years
- Comprehensive
- No Planned Service
- Park/Open Space
- Service Area Revisions since 2011
- *Areas not in any of the above categories are Existing/Under Construction

FACILITIES

- | | | |
|-----------------------|-----------------|----------------|
| | EXISTING | PLANNED |
| Pump Station | | |
| Storage Facility | | |
| Water Main | | |
| Metropolitan District | | |

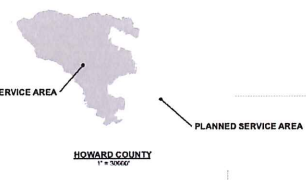


NOTE: BASE MAP DEVELOPED ON HOWARD COUNTY TAX MAPS

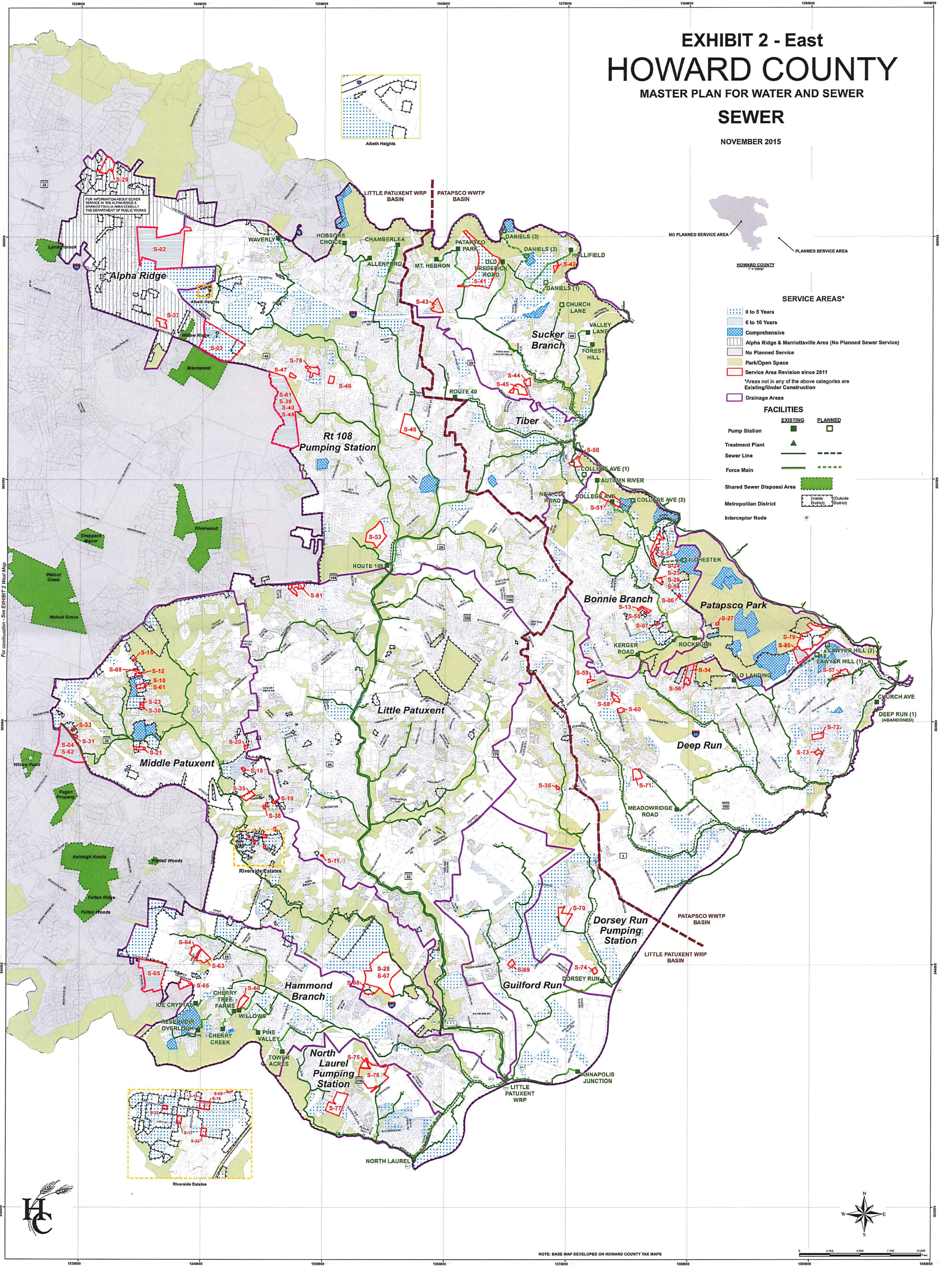
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EXHIBIT 2 - East HOWARD COUNTY MASTER PLAN FOR WATER AND SEWER SEWER

NOVEMBER 2015



- SERVICE AREAS***
- 0 to 5 Years
 - 6 to 10 Years
 - Comprehensive
 - Alpha Ridge & Marriottville Area (No Planned Sewer Service)
 - No Planned Service
 - Park/Open Space
 - Service Area Revision since 2011
 - *Areas not in any of the above categories are Existing/Under Construction
- FACILITIES**
- EXISTING PLANNED
 - Pump Station
 - Treatment Plant
 - Sewer Line
 - Force Main
 - Shared Sewer Disposal Area
 - Metropolitan District
 - Interceptor Node



For continuation - See EXHIBIT 2 West Map



NOTE: BASE MAP DEVELOPED ON HOWARD COUNTY TAX MAPS

