

**STORMWATER ANALYSIS**  
**FOR**  
**ELIZABETH HEIGHTS PHASE 2 REVISIONS**

**EXPERIENCEONE HOMES, LLC.**  
**1205 AVERETTE ROAD**  
**WAKE FOREST, NC 27587**  
**P: 919.991.1428**

**BY:**



**BCSC**  
BATEMAN CIVIL SURVEY COMPANY

**ENGINEER:**

**DOUGLAS COOPER, PE, PLS**  
**NCBELS # 32648**



February 20, 2025



2524 Reliance Avenue  
Apex, North Carolina 27539

Phone: 919.577.1080  
info@batemancivilsurvey.com

**DATE:** February 20, 2025

#### **Project Data –**

This project is located on Averette Road in Rolesville, NC. The tract area is 10.11 ac and is zoned R&PUD and R-40W. Parcel Pin No. is 1860039129. The site is within the Neuse River Basin and is subject to both quantity and quality control of stormwater runoff.

The site is currently vacant and is mostly wooded. The site generally drains to the west. There is an unnamed tributary flowing west at the north of the tract. The stream is buffered 50 ft on either side of the top of bank. Wetlands have been identified and are localized to areas near the streams. The soils onsite are sands, loams and sandy loams with sandy loam being the dominant type. The soils are predominantly D hydrologic group soils.

#### **Project Description –**

This project consists of a 51 SFA lot community and includes roads, sanitary sewer, public water and storm drainage.

#### **Land Disturbance and Change in Impervious –**

There is little to no impervious area on the site. The proposed impervious is limited to 2,500 sf for each lot.

#### **Streams –**

There are existing streams onsite. The site generally drains towards the north and west. The streams on site are subject to a 50-ft riparian buffer. The site currently drains towards the streams by overland sheet flow. The proposed site will drain to one SCM via a closed drainage system.

#### **Design Methodology and Calculation –**

Drainage areas were delineated for the post-development site conditions. These drainage areas were analyzed for ground cover including impervious areas, wooded areas and grassed/open area. For the purpose of the analysis because much of the project area soils are group D soils, the soils were assumed to be group D and ground cover was assumed to be in good condition. A composite CN value was calculated for each drainage area based on the land cover.

The existing storm system was originally analyzed prior to these revisions. These revisions include additional proposed inlets and storm pipes upstream of some of the existing inlets. The overall drainage areas from the original design remained the same with the exception of some of the larger drainage areas being broken down into smaller drainage areas and capturing the runoff upstream of the original design locations. No changes were made to the existing pipes as these were installed prior to the revision of the additional inlets.

Most of the runoff from the project is captured and conveyed by a closed storm drainage system. The storm drainage system was modeled using Autodesk's Storm and Sanitary Analysis (SSA) program. The pipes were sized to convey a 10-year storm and SSA was used to analyze the system during a 10-year and 25-year storm. SSA was also used to calculate the gutter spread for the inlets in Phase 2 for a 4-in/hr intensity using the Rational method. The spread is not permitted to extend beyond the center of

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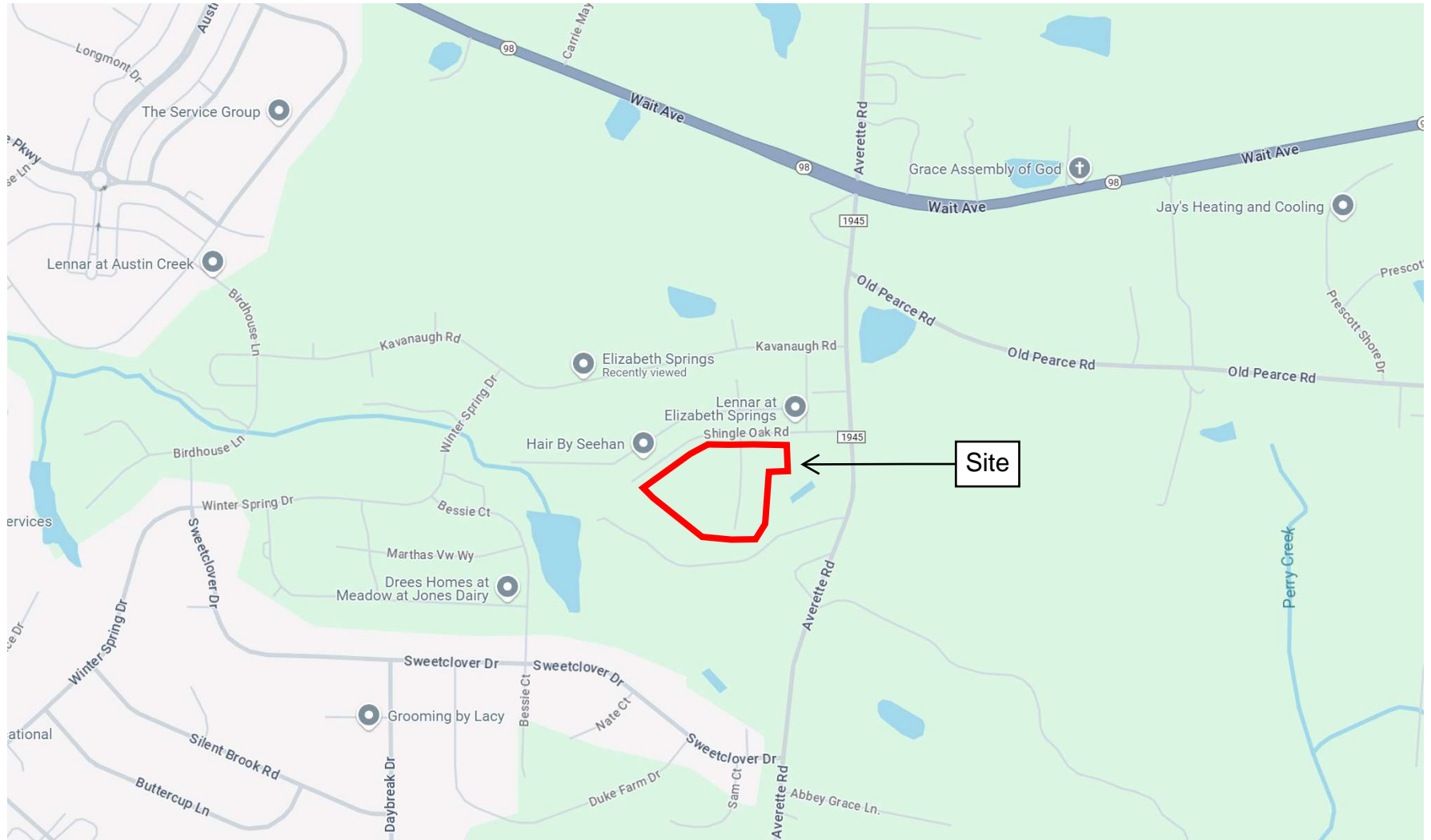
the travel lane, for this project, the spread may not exceed 6.5 ft as measured from the face of curb. The hydraulic grade lines (HGLs), drainage areas, and gutter spread report are included in this report.

**Appendix –**

- Vicinity Map
  - USGS Topographic Map
  - NRCS Hydrologic Soil Map
  - Drainage Area Maps
  - Drainage Area Calculations Report
  - Storm and Sanitary Analysis HGL Diagrams
  - Storm and Sanitary Analysis Gutter Spread Report
-

# Elizabeth Springs Phase 2 Revision

## Vicinity Map



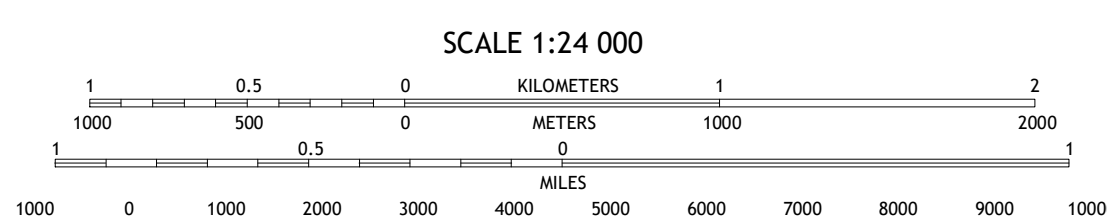
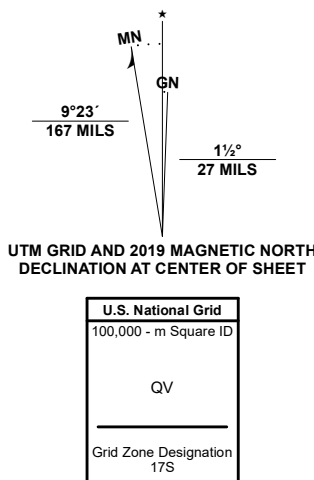




**Produced by the United States Geological Survey**

North American Datum of 1983 (NAD83)  
World Geodetic System of 1984 (WGS84). Projection and  
1 000-meter grid/Universal Transverse Mercator, Zone 17S  
This map is not a legal document. Boundaries may be  
generalized for this map scale. Private lands within government  
reservations may not be shown. Obtain permission before  
entering private lands.

Imagery.....NAIP, July 2020 - July 2020  
Roads.....U.S. Census Bureau, 2016  
Names.....GNIS, 1980 - 2022  
Hydrography.....National Hydrography Dataset, 2001 - 2021  
Contours.....National Elevation Dataset, 2008  
Boundaries.....Multiple sources; see metadata file 2019 - 2021  
Wetlands.....FWS National Wetlands Inventory Not Available



CONTOUR INTERVAL 10 FEET  
NORTH AMERICAN VERTICAL DATUM OF 1988  
This map was produced to conform with the  
National Geospatial Program US Topo Product Standard.



ADJOINING QUADRANGLES

1	2	3
4	5	6
7	8	

- 1 Grissom
- 2 Franklinton
- 3 Louisburg
- 4 Wake Forest
- 5 Bunn West
- 6 Raleigh East
- 7 Knightdale
- 8 Zebulon

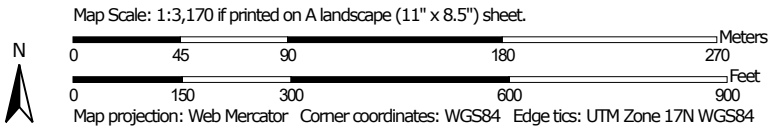
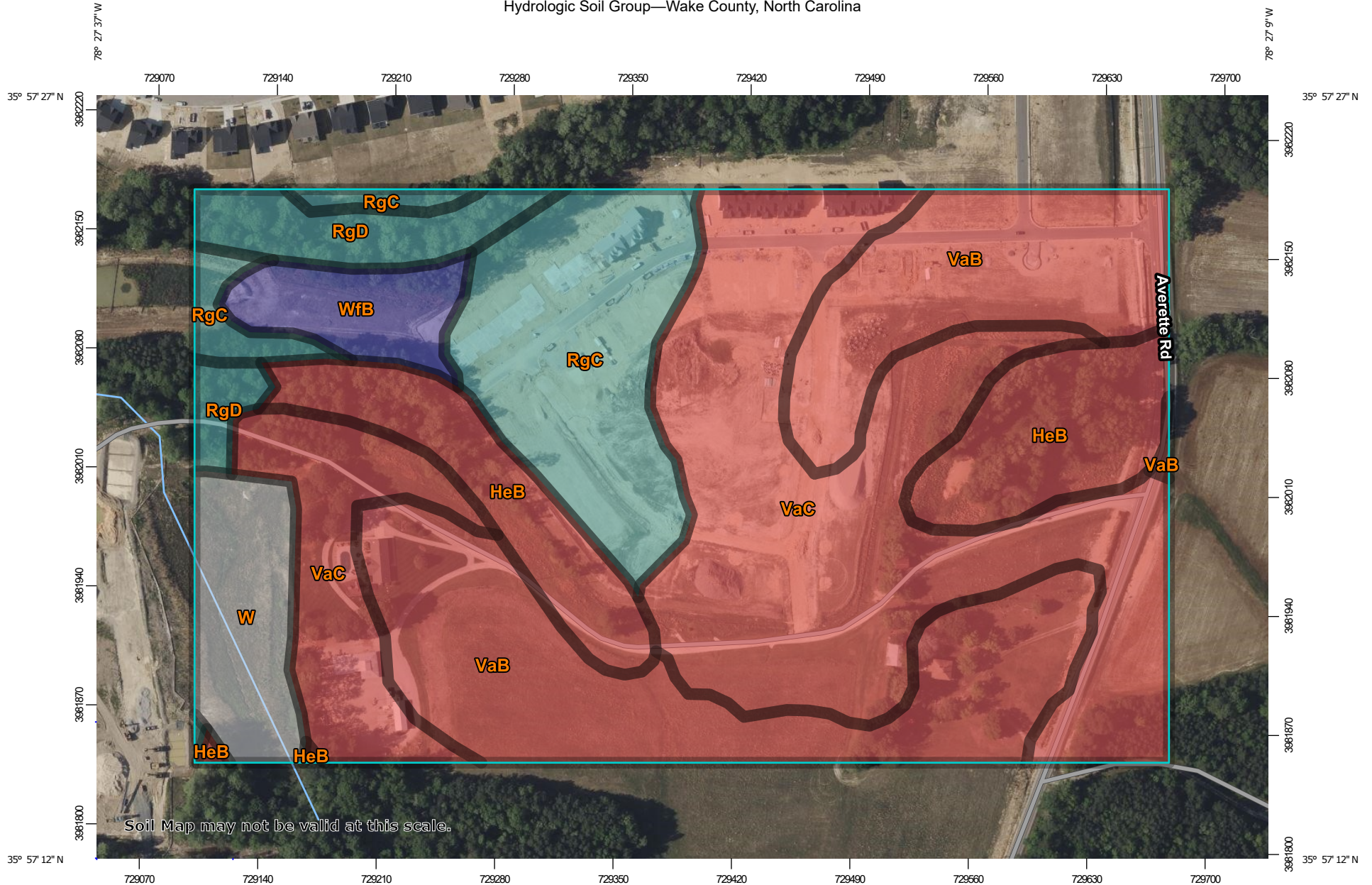
ROAD CLASSIFICATION

	Expressway		Local Connector
	Secondary Hwy		Local Road
	Ramp		4WD
	Interstate Route		US Route
			State Route





Hydrologic Soil Group—Wake County, North Carolina



## MAP LEGEND

### Area of Interest (AOI)









 Area of Interest (AOI)

### Soils

#### Soil Rating Polygons





 A  
 A/D  
 B  
 B/D  
 C  
 C/D  
 D  
 Not rated or not available

#### Soil Rating Lines

 A  
 A/D  
 B  
 B/D  
 C  
 C/D  
 D  
 Not rated or not available

#### Soil Rating Points





 A  
 A/D  
 B  
 B/D

 C  
 C/D  
 D  
 Not rated or not available

### Water Features

 Streams and Canals

### Transportation

 Rails  
 Interstate Highways  
 US Routes  
 Major Roads  
 Local Roads

### Background

 Aerial Photography

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

**Warning:** Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service  
 Web Soil Survey URL:  
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Wake County, North Carolina  
 Survey Area Data: Version 26, Sep 9, 2024

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 24, 2022—May 9, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
HeB	Helena sandy loam, 2 to 6 percent slopes	D	5.9	12.2%
RgC	Rawlings-Rion complex, 6 to 10 percent slopes	C	6.6	13.6%
RgD	Rawlings-Rion complex, 10 to 15 percent slopes	C	2.2	4.5%
VaB	Vance sandy loam, 2 to 6 percent slopes	D	12.6	26.2%
VaC	Vance sandy loam, 6 to 10 percent slopes	D	16.8	34.9%
W	Water		2.4	5.0%
WfB	Wedowee-Saw complex, 2 to 6 percent slopes	B	1.7	3.5%
<b>Totals for Area of Interest</b>			<b>48.2</b>	<b>100.0%</b>

## Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

## Rating Options

*Aggregation Method:* Dominant Condition

*Component Percent Cutoff:* None Specified

*Tie-break Rule:* Higher



STORM STRUCTURE TABLE				
STRUCTURE	RIM EL.	STRUCTURE IN	INVERT IN	INVERT OUT
411-AD-A	407.90	411-AD-B	402.92	402.72
411-AD-B	414.00			404.60
414-AD-A	413.80			408.70
420-AD-A	419.98			416.53

STORM SYSTEM DATA					
DOWNSTREAM STRUCTURE	UPSTREAM STRUCTURE	SIZE	LENGTH	SLOPE	MATERIAL
420-AD-A	420-AD	15	21.96	0.50%	Reinforced Concrete Pipe
414-AD-A	414-AD	18	86.47	1.03%	Reinforced Concrete Pipe
411-AD-B	411-AD-A	24	152.73	1.10%	Reinforced Concrete Pipe
411-AD-A	411-AD	24	110.32	1.00%	Reinforced Concrete Pipe

NOTE: CATCH BASINS LABELED WITH AN ASTERISK ARE TO BE ROLLOVER GRATES.

**LEGEND:**

- EXISTING OVERHEAD ELECTRIC LINE
- EXISTING ELECTRIC POLE
- EXISTING FENCE
- EXISTING MAJOR CONTOURS
- EXISTING MINOR CONTOURS
- EXISTING RIPARIAN BUFFER
- EXISTING STREAM
- EXISTING TREES
- EXISTING WETLAND
- PROPOSED CATCH BASIN
- PROPOSED FLARED END SECTION
- PROPOSED MAJOR CONTOURS
- PROPOSED MINOR CONTOURS
- PROPOSED RIP RAP
- PROPOSED STORM MANHOLE
- PROPOSED STORM PIPE
- PROPOSED YARD INLET
- PROPOSED JUNCTION BOX

**SYMBOL LEGEND**

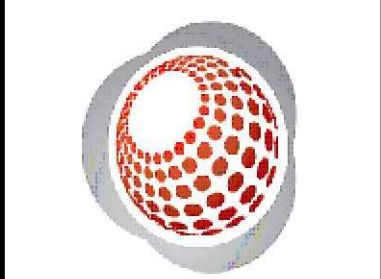
- END OF STREET SIGNAGE
- STOP SIGN AND STREET NAME SIGN LOCATION
- ACCESSIBILITY RAMP
- LARGE STREET TREE, TYP 2 1/2" CALIPER MIN
- FLOOD PRONE SOILS (GIS)
- EX. R-40W ZONING (SEE NOTE 6 ON SHEET C300 OF FULLY APPROVED ELIZABETH HEIGHTS CONST. DRAWINGS SP-19-01)
- PHASE LINE
- TRACT LINE



NOT A CERTIFIED DOCUMENT AS TO THE ORIGINAL DOCUMENT ONLY AS TO THE REVISIONS CLOUED AND LABELED "1" IN THIS PLAN SET. THIS DOCUMENT WAS ISSUED AND SEALED BY THOMAS S. SPEIGHT, JR., NC PE 022234 ON 05.28.2019 AND APPROVED UNDER SP-19-01 BY THE TOWN OF ROLESVILLE BOARD OF COMMISSIONERS. THIS DOCUMENT IS ONLY CERTIFIED AS TO THE REVISIONS CLOUED AND LABELED "1" IN THIS PLAN SET.

PRELIMINARY  
NOT FOR CONSTRUCTION

**Bateman Civil Survey Company**  
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2524 Reliance Avenue, Apex, North Carolina 27539  
Phone: 919.577.1080 Fax: 919.577.1081  
NCBELS FRM No. C-2378



ELIZABETH HEIGHTS  
PHASE 2 REVISIONS  
1205 AVERETTE ROAD  
WAKE FOREST, NC 27887  
WAKE COUNTY

DRAINAGE AREA MAP - EAST

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REV #	DATE	DESCRIPTION
1	12.16.2024	BUILDING FOOTPRINT REVISION TO SP-19-01
2	02.07.2025	REVISION TO SP-19-01 PER TOR COMMENTS

**811**  
KNOW WHAT IS BELOW  
CALL BEFORE YOU DIG

N  
NAD 83 / NRSRS 2011  
SCALE 1"=50'  
0 50' 100'

Design By: BCSC  
Date: 24.11.13  
Project #: P170348  
SHEET  
EX 2



STORM STRUCTURE TABLE				
STRUCTURE	RIM EL.	STRUCTURE IN	INVERT IN	INVERT OUT
411-AD-A	407.90	411-AD-B	402.92	402.72
411-AD-B	414.00			404.60
414-AD-A	413.80			408.70
420-AD-A	419.98			416.53

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DOWNSTREAM STRUCTURE	UPSTREAM STRUCTURE	SIZE	LENGTH	SLOPE	MATERIAL
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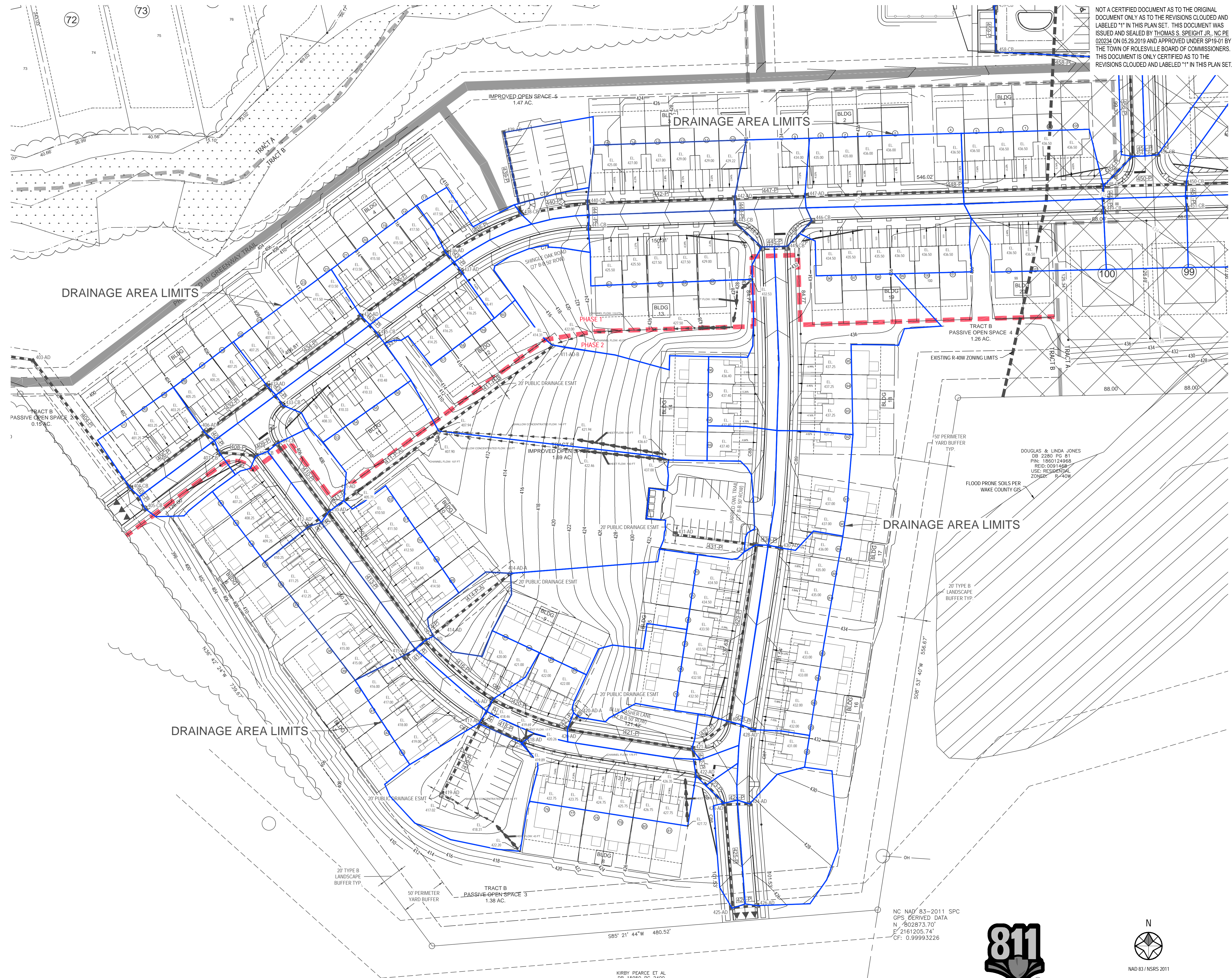
**LEGEND:**

- EXISTING OVERHEAD ELECTRIC LINE
- EXISTING ELECTRIC POLE
- EXISTING FENCE
- EXISTING MAJOR CONTOURS
- EXISTING MINOR CONTOURS
- EXISTING RIPARIAN BUFFER
- EXISTING STREAM
- EXISTING TREES
- EXISTING WETLAND
- PROPOSED CATCH BASIN
- PROPOSED FLARED END SECTION
- PROPOSED MAJOR CONTOURS
- PROPOSED MINOR CONTOURS
- PROPOSED RIP RAP
- PROPOSED STORM MANHOLE
- PROPOSED STORM PIPE
- PROPOSED YARD INLET
- PROPOSED JUNCTION BOX

**SYMBOL LEGEND**

- END OF STREET SIGNAGE
- STOP SIGN AND STREET NAME SIGN LOCATION
- ACCESSIBILITY RAMP
- LARGE STREET TREE, TYP  
2 1/2" CALIPER MIN
- FLOOD PRONE SOILS (GIS)
- EX. R-40W ZONING (SEE NOTE 6 ON SHEET C300 OF FULLY APPROVED ELIZABETH HEIGHTS CONST. DRAWINGS SP-19-01)
- PHASE LINE
- TRACT LINE

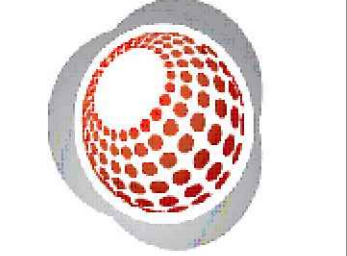
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ELIZABETH HEIGHTS  
PHASE 2 REVISIONS  
1205 AVRETT ROAD  
WAKE FOREST, NC 27587  
WAKE COUNTY

DRAINAGE AREA MAP - WEST

Design By: BCSC  
Date: 24.11.13  
Project #: P170348  
SHEET  
EX 1



KNOW WHAT IS BELOW  
CALL BEFORE YOU DIG

N  
NAD 83 / NRS 2011  
SCALE 1"=50'  
0 50' 100'

KIRBY PEARCE ET AL  
DB 19550 PG 2400  
P.N.: 180292844  
REID: 0091467  
USE: AGRICULTURAL  
ZONED: R&PUD

NC NAD 83-2011 SPC  
GPS DERIVED DATA  
N = 602873.70  
E = 2161205.74  
CF: 0.99993226

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## POST-DEVELOPMENT DRAINAGE AREAS

PROJECT NAME: ELIZABETH SPRINGS PI  
 PROJECT #: 170348

CALCS BY: PAS  
 CHECKED BY: DBC

Drainage Area Calculations		POST		Develop.	
Area: 404-CB		D	Soil Group		
Description:	Area (SF)	Acres	CN	C	
<b>Impervious</b>					
Roadway	1,232	0.028	98	0.96	
Driveway	1,686	0.039	98	0.96	
Parking Lot	0	0.000	98	0.96	
Roof	1,866	0.043	98	0.96	
Sidewalk	216	0.005	98	0.96	
-	0	0.000	98	0.96	
Total	5,000	0.115			
<b>Pervious</b>					
Lawn	2,365	0.054	84	0.68	
Managed Pervious	0	0.000	80	0.6	
Forest	0	0.000	77	0.54	
Natural Wetland	0	0.000	77	0.54	
Riparian Buffer	0	0.000	77	0.54	
Open Water	0	0.000	30	0.15	
-	0	0.000	30	0.15	
Total	2,365	0.054			
BMP Area	0	0.000	30	0.15	
BMP Area Water	0	0.000	30	0.15	
<b>Total Area</b>	<b>7,364</b>	<b>0.169</b>			
<b>% Impervious</b>	<b>67.90%</b>				
	<b>Basin Weighted</b>		<b>94</b>	<b>0.87</b>	

Drainage Area Calculations		POST		Develop.	
Area: 405-CB		D	Soil Group		
Description:	Area (SF)	Acres	CN	C	
<b>Impervious</b>					
Roadway	1,232	0.028	98	0.96	
Driveway	0	0.000	98	0.96	
Parking Lot	0	0.000	98	0.96	
Roof	0	0.000	98	0.96	
Sidewalk	459	0.011	98	0.96	
-	0	0.000	98	0.96	
Total	1,691	0.039			
<b>Pervious</b>					
Lawn	2,365	0.054	84	0.68	
Managed Pervious	0	0.000	80	0.6	
Forest	0	0.000	77	0.54	
Natural Wetland	0	0.000	77	0.54	
Riparian Buffer	0	0.000	77	0.54	
Open Water	0	0.000	30	0.15	
-	0	0.000	30	0.15	
Total	2,365	0.054			
BMP Area	0	0.000	30	0.15	
BMP Area Water	0	0.000	30	0.15	
<b>Total Area</b>	<b>4,056</b>	<b>0.093</b>			
<b>% Impervious</b>	<b>41.69%</b>				
	<b>Basin Weighted</b>		<b>90</b>	<b>0.797</b>	

Drainage Area Calculations		POST		Develop.	
Area: 406-AD		D	Soil Group		
Description:	Area (SF)	Acres	CN	C	
<b>Impervious</b>					
Roadway	1,056	0.024	98	0.96	
Driveway	1,686	0.039	98	0.96	
Parking Lot	0	0.000	98	0.96	
Roof	1,866	0.043	98	0.96	
Sidewalk	150	0.003	98	0.96	
-	0	0.000	98	0.96	
Total	4,758	0.109			
<b>Pervious</b>					
Lawn	833	0.019	84	0.68	
Managed Pervious	0	0.000	80	0.6	
Forest	0	0.000	77	0.54	
Natural Wetland	0	0.000	77	0.54	
Riparian Buffer	0	0.000	77	0.54	
Open Water	0	0.000	30	0.15	

Drainage Area Calculations		POST		Develop.	
Area: 407-CB		D	Soil Group		
Description:	Area (SF)	Acres	CN	C	
<b>Impervious</b>					
Roadway	2,400	0.055	98	0.96	
Driveway	0	0.000	98	0.96	
Parking Lot	0	0.000	98	0.96	
Roof	0	0.000	98	0.96	
Sidewalk	0	0.000	98	0.96	
-	0	0.000	98	0.96	
Total	2,400	0.055			
<b>Pervious</b>					
Lawn	1,586	0.036	84	0.68	
Managed Pervious	0	0.000	80	0.6	
Forest	0	0.000	77	0.54	
Natural Wetland	0	0.000	77	0.54	
Riparian Buffer	0	0.000	77	0.54	
Open Water	0	0.000	30	0.15	

-	0	0.000	30	0.15
Total	833	0.019		
BMP Area	0	0.000	30	0.15
BMP Area Water	0	0.000	30	0.15
<b>Total Area</b>	<b>5,591</b>	<b>0.128</b>		
<b>% Impervious</b>	<b>85.10%</b>			
	<b>Basin Weighted</b>	<b>96</b>	<b>0.918</b>	

-	0	0.000	30	0.15
Total	1,586	0.036		
BMP Area	0	0.000	30	0.15
BMP Area Water	0	0.000	30	0.15
<b>Total Area</b>	<b>3,986</b>	<b>0.092</b>		
<b>% Impervious</b>	<b>60.21%</b>			
	<b>Basin Weighted</b>	<b>92</b>	<b>0.849</b>	

Drainage Area Calculations			POST	Develop.	
Area: 408-CB			D	Soil Group	
Description:	Area (SF)	Acres	CN	C	
<b>Impervious</b>					
Roadway	1,056	0.024	98	0.96	
Driveway	1,686	0.039	98	0.96	
Parking Lot	0	0.000	98	0.96	
Roof	1,866	0.043	98	0.96	
Sidewalk	150	0.003	98	0.96	
-	0	0.000	98	0.96	
Total	4,758	0.109			
<b>Pervious</b>					
Lawn	2,076	0.048	84	0.68	
Managed Pervious	0	0.000	80	0.6	
Forest	0	0.000	77	0.54	
Natural Wetland	0	0.000	77	0.54	
Riparian Buffer	0	0.000	77	0.54	
Open Water	0	0.000	30	0.15	
-	0	0.000	30	0.15	
Total	2,076	0.048			
BMP Area	0	0.000	30	0.15	
BMP Area Water	0	0.000	30	0.15	
<b>Total Area</b>	<b>6,834</b>	<b>0.157</b>			
<b>% Impervious</b>	<b>69.62%</b>				
	<b>Basin Weighted</b>	<b>94</b>	<b>0.875</b>		

Drainage Area Calculations			POST	Develop.	
Area: 409-CB			D	Soil Group	
Description:	Area (SF)	Acres	CN	C	
<b>Impervious</b>					
Roadway	1,056	0.024	98	0.96	
Driveway	0	0.000	98	0.96	
Parking Lot	0	0.000	98	0.96	
Roof	0	0.000	98	0.96	
Sidewalk	393	0.009	98	0.96	
-	0	0.000	98	0.96	
Total	1,449	0.033			
<b>Pervious</b>					
Lawn	3,086	0.071	84	0.68	
Managed Pervious	0	0.000	80	0.6	
Forest	0	0.000	77	0.54	
Natural Wetland	0	0.000	77	0.54	
Riparian Buffer	0	0.000	77	0.54	
Open Water	0	0.000	30	0.15	
-	0	0.000	30	0.15	
Total	3,086	0.071			
BMP Area	0	0.000	30	0.15	
BMP Area Water	0	0.000	30	0.15	
<b>Total Area</b>	<b>4,535</b>	<b>0.104</b>			
<b>% Impervious</b>	<b>31.95%</b>				
	<b>Basin Weighted</b>	<b>88</b>	<b>0.769</b>		

Drainage Area Calculations			POST	Develop.	
Area: 410-AD			D	Soil Group	
Description:	Area (SF)	Acres	CN	C	
<b>Impervious</b>					
Roadway	1,760	0.040	98	0.96	
Driveway	2,810	0.065	98	0.96	
Parking Lot	0	0.000	98	0.96	
Roof	3,110	0.071	98	0.96	
Sidewalk	250	0.006	98	0.96	
-	0	0.000	98	0.96	
Total	7,930	0.182			
<b>Pervious</b>					
Lawn	3,723	0.085	84	0.68	
Managed Pervious	0	0.000	80	0.6	
Forest	0	0.000	77	0.54	
Natural Wetland	0	0.000	77	0.54	
Riparian Buffer	0	0.000	77	0.54	
Open Water	0	0.000	30	0.15	
-	0	0.000	30	0.15	

Drainage Area Calculations			POST	Develop.	
Area: 411-AD			D	Soil Group	
Description:	Area (SF)	Acres	CN	C	
<b>Impervious</b>					
Roadway	0	0.000	98	0.96	
Driveway	0	0.000	98	0.96	
Parking Lot	0	0.000	98	0.96	
Roof	5,598	0.129	98	0.96	
Sidewalk	0	0.000	98	0.96	
-	0	0.000	98	0.96	
Total	5,598	0.129			
<b>Pervious</b>					
Lawn	39,188	0.900	84	0.68	
Managed Pervious	0	0.000	80	0.6	
Forest	0	0.000	77	0.54	
Natural Wetland	0	0.000	77	0.54	
Riparian Buffer	0	0.000	77	0.54	
Open Water	0	0.000	30	0.15	
-	0	0.000	30	0.15	

Total	3,723	0.085		
BMP Area	0	0.000	30	0.15
BMP Area Water	0	0.000	30	0.15
<b>Total Area</b>	<b>11,653</b>	<b>0.268</b>		
<b>% Impervious</b>	<b>68.05%</b>			
	<b>Basin Weighted</b>		<b>94</b>	<b>0.871</b>

Total	39,188	0.900		
BMP Area	0	0.000	30	0.15
BMP Area Water	0	0.000	30	0.15
<b>Total Area</b>	<b>44,786</b>	<b>1.028</b>		
<b>% Impervious</b>	<b>12.50%</b>			
	<b>Basin Weighted</b>		<b>86</b>	<b>0.715</b>

Drainage Area Calculations			POST	Develop.	
Area: 411-AD-A			D	Soil Group	
Description:	Area (SF)	Acres	CN	C	
<b>Impervious</b>					
Roadway	0	0.000	98	0.96	
Driveway	0	0.000	98	0.96	
Parking Lot	0	0.000	98	0.96	
Roof	4,976	0.114	98	0.96	
Sidewalk	0	0.000	98	0.96	
-	0	0.000	98	0.96	
Total	4,976	0.114			
<b>Pervious</b>					
Lawn	29,038	0.667	84	0.68	
Managed Pervious	0	0.000	80	0.6	
Forest	0	0.000	77	0.54	
Natural Wetland	0	0.000	77	0.54	
Riparian Buffer	0	0.000	77	0.54	
Open Water	0	0.000	30	0.15	
-	0	0.000	30	0.15	
Total	29,038	0.667			
BMP Area	0	0.000	30	0.15	
BMP Area Water	0	0.000	30	0.15	
<b>Total Area</b>	<b>34,014</b>	<b>0.781</b>			
<b>% Impervious</b>	<b>14.63%</b>				
	<b>Basin Weighted</b>		<b>86</b>	<b>0.721</b>	

Drainage Area Calculations			POST	Develop.	
Area: 411-AD-B			D	Soil Group	
Description:	Area (SF)	Acres	CN	C	
<b>Impervious</b>					
Roadway	0	0.000	98	0.96	
Driveway	0	0.000	98	0.96	
Parking Lot	0	0.000	98	0.96	
Roof	3,110	0.071	98	0.96	
Sidewalk	0	0.000	98	0.96	
-	0	0.000	98	0.96	
Total	3,110	0.071			
<b>Pervious</b>					
Lawn	18,073	0.415	84	0.68	
Managed Pervious	0	0.000	80	0.6	
Forest	0	0.000	77	0.54	
Natural Wetland	0	0.000	77	0.54	
Riparian Buffer	0	0.000	77	0.54	
Open Water	0	0.000	30	0.15	
-	0	0.000	30	0.15	
Total	18,073	0.415			
BMP Area	0	0.000	30	0.15	
BMP Area Water	0	0.000	30	0.15	
<b>Total Area</b>	<b>21,183</b>	<b>0.486</b>			
<b>% Impervious</b>	<b>14.68%</b>				
	<b>Basin Weighted</b>		<b>86</b>	<b>0.721</b>	

Drainage Area Calculations			POST	Develop.	
Area: 412-AD			D	Soil Group	
Description:	Area (SF)	Acres	CN	C	
<b>Impervious</b>					
Roadway	1,760	0.040	98	0.96	
Driveway	2,810	0.065	98	0.96	
Parking Lot	0	0.000	98	0.96	
Roof	3,110	0.071	98	0.96	
Sidewalk	250	0.006	98	0.96	
-	0	0.000	98	0.96	
Total	7,930	0.182			
<b>Pervious</b>					
Lawn	4,198	0.096	84	0.68	
Managed Pervious	0	0.000	80	0.6	
Forest	0	0.000	77	0.54	
Natural Wetland	0	0.000	77	0.54	
Riparian Buffer	0	0.000	77	0.54	
Open Water	0	0.000	30	0.15	
-	0	0.000	30	0.15	
Total	4,198	0.096			
BMP Area	0	0.000	30	0.15	

Drainage Area Calculations			POST	Develop.	
Area: 413-AD			D	Soil Group	
Description:	Area (SF)	Acres	CN	C	
<b>Impervious</b>					
Roadway	1,056	0.024	98	0.96	
Driveway	1,124	0.026	98	0.96	
Parking Lot	0	0.000	98	0.96	
Roof	1,244	0.029	98	0.96	
Sidewalk	100	0.002	98	0.96	
-	0	0.000	98	0.96	
Total	3,524	0.081			
<b>Pervious</b>					
Lawn	1,719	0.039	84	0.68	
Managed Pervious	0	0.000	80	0.6	
Forest	0	0.000	77	0.54	
Natural Wetland	0	0.000	77	0.54	
Riparian Buffer	0	0.000	77	0.54	
Open Water	0	0.000	30	0.15	
-	0	0.000	30	0.15	
Total	1,719	0.039			
BMP Area	0	0.000	30	0.15	

BMP Area Water	0	0.000	30	0.15
<b>Total Area</b>	<b>12,128</b>	<b>0.278</b>		
<b>% Impervious</b>	<b>65.39%</b>			
	<b>Basin Weighted</b>		<b>93</b>	<b>0.863</b>

BMP Area Water	0	0.000	30	0.15
<b>Total Area</b>	<b>5,243</b>	<b>0.120</b>		
<b>% Impervious</b>	<b>67.21%</b>			
	<b>Basin Weighted</b>		<b>93</b>	<b>0.868</b>

Drainage Area Calculations		POST		Develop.	
Area: 414-AD		D		Soil Group	
Description:	Area (SF)	Acres	CN	C	
<b>Impervious</b>					
Roadway	0	0.000	98	0.96	
Driveway	0	0.000	98	0.96	
Parking Lot	0	0.000	98	0.96	
Roof	0	0.000	98	0.96	
Sidewalk	0	0.000	98	0.96	
-	0	0.000	98	0.96	
Total	0	0.000			
<b>Pervious</b>					
Lawn	4,975	0.114	84	0.68	
Managed Pervious	0	0.000	80	0.6	
Forest	0	0.000	77	0.54	
Natural Wetland	0	0.000	77	0.54	
Riparian Buffer	0	0.000	77	0.54	
Open Water	0	0.000	30	0.15	
-	0	0.000	30	0.15	
Total	4,975	0.114			
BMP Area	0	0.000	30	0.15	
BMP Area Water	0	0.000	30	0.15	
<b>Total Area</b>	<b>4,975</b>	<b>0.114</b>			
<b>% Impervious</b>	<b>0.00%</b>				
	<b>Basin Weighted</b>		<b>84</b>	<b>0.68</b>	

Drainage Area Calculations		POST		Develop.	
Area: 414-AD-A		D		Soil Group	
Description:	Area (SF)	Acres	CN	C	
<b>Impervious</b>					
Roadway	0	0.000	98	0.96	
Driveway	0	0.000	98	0.96	
Parking Lot	0	0.000	98	0.96	
Roof	3,110	0.071	98	0.96	
Sidewalk	0	0.000	98	0.96	
-	0	0.000	98	0.96	
Total	3,110	0.071			
<b>Pervious</b>					
Lawn	14,614	0.335	84	0.68	
Managed Pervious	0	0.000	80	0.6	
Forest	0	0.000	77	0.54	
Natural Wetland	0	0.000	77	0.54	
Riparian Buffer	0	0.000	77	0.54	
Open Water	0	0.000	30	0.15	
-	0	0.000	30	0.15	
Total	14,614	0.335			
BMP Area	0	0.000	30	0.15	
BMP Area Water	0	0.000	30	0.15	
<b>Total Area</b>	<b>17,724</b>	<b>0.407</b>			
<b>% Impervious</b>	<b>17.55%</b>				
	<b>Basin Weighted</b>		<b>86</b>	<b>0.729</b>	

Drainage Area Calculations		POST		Develop.	
Area: 415-AD		D		Soil Group	
Description:	Area (SF)	Acres	CN	C	
<b>Impervious</b>					
Roadway	1,408	0.032	98	0.96	
Driveway	2,248	0.052	98	0.96	
Parking Lot	0	0.000	98	0.96	
Roof	2,488	0.057	98	0.96	
Sidewalk	200	0.005	98	0.96	
-	0	0.000	98	0.96	
Total	6,344	0.146			
<b>Pervious</b>					
Lawn	2,795	0.064	84	0.68	
Managed Pervious	0	0.000	80	0.6	
Forest	0	0.000	77	0.54	
Natural Wetland	0	0.000	77	0.54	
Riparian Buffer	0	0.000	77	0.54	
Open Water	0	0.000	30	0.15	
-	0	0.000	30	0.15	
Total	2,795	0.064			
BMP Area	0	0.000	30	0.15	
BMP Area Water	0	0.000	30	0.15	

Drainage Area Calculations		POST		Develop.	
Area: 416-AD		D		Soil Group	
Description:	Area (SF)	Acres	CN	C	
<b>Impervious</b>					
Roadway	1,056	0.024	98	0.96	
Driveway	1,124	0.026	98	0.96	
Parking Lot	0	0.000	98	0.96	
Roof	1,244	0.029	98	0.96	
Sidewalk	100	0.002	98	0.96	
-	0	0.000	98	0.96	
Total	3,524	0.081			
<b>Pervious</b>					
Lawn	2,088	0.048	84	0.68	
Managed Pervious	0	0.000	80	0.6	
Forest	0	0.000	77	0.54	
Natural Wetland	0	0.000	77	0.54	
Riparian Buffer	0	0.000	77	0.54	
Open Water	0	0.000	30	0.15	
-	0	0.000	30	0.15	
Total	2,088	0.048			
BMP Area	0	0.000	30	0.15	
BMP Area Water	0	0.000	30	0.15	

<b>Total Area</b>	<b>9,139</b>	<b>0.210</b>		
<b>% Impervious</b>	<b>69.42%</b>			
	<b>Basin Weighted</b>	<b>94</b>	<b>0.874</b>	

<b>Total Area</b>	<b>5,612</b>	<b>0.129</b>		
<b>% Impervious</b>	<b>62.79%</b>			
	<b>Basin Weighted</b>	<b>93</b>	<b>0.856</b>	

Drainage Area Calculations			POST	Develop.	
Area:	417-AD		D	Soil Group	
Description:	Area (SF)	Acres	CN	C	
<b>Impervious</b>					
Roadway	0	0.000	98	0.96	
Driveway	0	0.000	98	0.96	
Parking Lot	0	0.000	98	0.96	
Roof	0	0.000	98	0.96	
Sidewalk	0	0.000	98	0.96	
-	0	0.000	98	0.96	
Total	0	0.000			
<b>Pervious</b>					
Lawn	779	0.018	84	0.68	
Managed Pervious	0	0.000	80	0.6	
Forest	0	0.000	77	0.54	
Natural Wetland	0	0.000	77	0.54	
Riparian Buffer	0	0.000	77	0.54	
Open Water	0	0.000	30	0.15	
-	0	0.000	30	0.15	
Total	779	0.018			
BMP Area	0	0.000	30	0.15	
BMP Area Water	0	0.000	30	0.15	
<b>Total Area</b>	<b>779</b>	<b>0.018</b>			
<b>% Impervious</b>	<b>0.00%</b>				
	<b>Basin Weighted</b>	<b>84</b>	<b>0.68</b>		

Drainage Area Calculations			POST	Develop.	
Area:	418-AD		D	Soil Group	
Description:	Area (SF)	Acres	CN	C	
<b>Impervious</b>					
Roadway	2,112	0.048	98	0.96	
Driveway	3,372	0.077	98	0.96	
Parking Lot	0	0.000	98	0.96	
Roof	3,732	0.086	98	0.96	
Sidewalk	300	0.007	98	0.96	
-	0	0.000	98	0.96	
Total	9,516	0.218			
<b>Pervious</b>					
Lawn	2,697	0.062	84	0.68	
Managed Pervious	0	0.000	80	0.6	
Forest	0	0.000	77	0.54	
Natural Wetland	0	0.000	77	0.54	
Riparian Buffer	0	0.000	77	0.54	
Open Water	0	0.000	30	0.15	
-	0	0.000	30	0.15	
Total	2,697	0.062			
BMP Area	0	0.000	30	0.15	
BMP Area Water	0	0.000	30	0.15	
<b>Total Area</b>	<b>12,213</b>	<b>0.280</b>			
<b>% Impervious</b>	<b>77.92%</b>				
	<b>Basin Weighted</b>	<b>95</b>	<b>0.898</b>		

Drainage Area Calculations			POST	Develop.	
Area:	419-AD		D	Soil Group	
Description:	Area (SF)	Acres	CN	C	
<b>Impervious</b>					
Roadway	0	0.000	98	0.96	
Driveway	0	0.000	98	0.96	
Parking Lot	5,175	0.119	98	0.96	
Roof	0	0.000	98	0.96	
Sidewalk	0	0.000	98	0.96	
-	0	0.000	98	0.96	
Total	5,175	0.119			
<b>Pervious</b>					
Lawn	9,573	0.220	84	0.68	
Managed Pervious	0	0.000	80	0.6	
Forest	0	0.000	77	0.54	
Natural Wetland	0	0.000	77	0.54	
Riparian Buffer	0	0.000	77	0.54	
Open Water	0	0.000	30	0.15	
-	0	0.000	30	0.15	
Total	9,573	0.220			
BMP Area	0	0.000	30	0.15	
BMP Area Water	0	0.000	30	0.15	
<b>Total Area</b>	<b>14,748</b>	<b>0.339</b>			

Drainage Area Calculations			POST	Develop.	
Area:	420-AD		D	Soil Group	
Description:	Area (SF)	Acres	CN	C	
<b>Impervious</b>					
Roadway	1,760	0.040	98	0.96	
Driveway	0	0.000	98	0.96	
Parking Lot	0	0.000	98	0.96	
Roof	0	0.000	98	0.96	
Sidewalk	655	0.015	98	0.96	
-	0	0.000	98	0.96	
Total	2,415	0.055			
<b>Pervious</b>					
Lawn	3,363	0.077	84	0.68	
Managed Pervious	0	0.000	80	0.6	
Forest	0	0.000	77	0.54	
Natural Wetland	0	0.000	77	0.54	
Riparian Buffer	0	0.000	77	0.54	
Open Water	0	0.000	30	0.15	
-	0	0.000	30	0.15	
Total	3,363	0.077			
BMP Area	0	0.000	30	0.15	
BMP Area Water	0	0.000	30	0.15	
<b>Total Area</b>	<b>5,778</b>	<b>0.133</b>			

<b>% Impervious</b>	<b>35.09%</b>			
	<b>Basin Weighted</b>	<b>89</b>	<b>0.778</b>	

<b>% Impervious</b>	<b>41.80%</b>			
	<b>Basin Weighted</b>	<b>90</b>	<b>0.797</b>	

Drainage Area Calculations			<b>POST</b>	Develop.	
Area:	<b>420-AD-A</b>		<b>D</b>	Soil Group	
Description:	Area (SF)	Acres	CN	C	
<b>Impervious</b>					
Roadway	0	0.000	98	0.96	
Driveway	0	0.000	98	0.96	
Parking Lot	0	0.000	98	0.96	
Roof	1,866	0.043	98	0.96	
Sidewalk	0	0.000	98	0.96	
-	0	0.000	98	0.96	
Total	1,866	0.043			
<b>Pervious</b>					
Lawn	6,229	0.143	84	0.68	
Managed Pervious	0	0.000	80	0.6	
Forest	0	0.000	77	0.54	
Natural Wetland	0	0.000	77	0.54	
Riparian Buffer	0	0.000	77	0.54	
Open Water	0	0.000	30	0.15	
-	0	0.000	30	0.15	
Total	6,229	0.143			
BMP Area	0	0.000	30	0.15	
BMP Area Water	0	0.000	30	0.15	
<b>Total Area</b>	<b>8,095</b>	<b>0.186</b>			
<b>% Impervious</b>	<b>23.05%</b>				
	<b>Basin Weighted</b>	<b>87</b>	<b>0.745</b>		

Drainage Area Calculations			<b>POST</b>	Develop.	
Area:	<b>421-AD</b>		<b>D</b>	Soil Group	
Description:	Area (SF)	Acres	CN	C	
<b>Impervious</b>					
Roadway	1,200	0.028	98	0.96	
Driveway	0	0.000	98	0.96	
Parking Lot	0	0.000	98	0.96	
Roof	0	0.000	98	0.96	
Sidewalk	0	0.000	98	0.96	
-	0	0.000	98	0.96	
Total	1,200	0.028			
<b>Pervious</b>					
Lawn	566	0.013	84	0.68	
Managed Pervious	0	0.000	80	0.6	
Forest	0	0.000	77	0.54	
Natural Wetland	0	0.000	77	0.54	
Riparian Buffer	0	0.000	77	0.54	
Open Water	0	0.000	30	0.15	
-	0	0.000	30	0.15	
Total	566	0.013			
BMP Area	0	0.000	30	0.15	
BMP Area Water	0	0.000	30	0.15	
<b>Total Area</b>	<b>1,766</b>	<b>0.041</b>			
<b>% Impervious</b>	<b>67.95%</b>				
	<b>Basin Weighted</b>	<b>94</b>	<b>0.87</b>		

Drainage Area Calculations			<b>POST</b>	Develop.	
Area:	<b>422-AD</b>		<b>D</b>	Soil Group	
Description:	Area (SF)	Acres	CN	C	
<b>Impervious</b>					
Roadway	600	0.014	98	0.96	
Driveway	0	0.000	98	0.96	
Parking Lot	0	0.000	98	0.96	
Roof	0	0.000	98	0.96	
Sidewalk	0	0.000	98	0.96	
-	0	0.000	98	0.96	
Total	600	0.014			
<b>Pervious</b>					
Lawn	521	0.012	84	0.68	
Managed Pervious	0	0.000	80	0.6	
Forest	0	0.000	77	0.54	
Natural Wetland	0	0.000	77	0.54	
Riparian Buffer	0	0.000	77	0.54	
Open Water	0	0.000	30	0.15	
-	0	0.000	30	0.15	
Total	521	0.012			
BMP Area	0	0.000	30	0.15	
BMP Area Water	0	0.000	30	0.15	
<b>Total Area</b>	<b>1,121</b>	<b>0.026</b>			
<b>% Impervious</b>	<b>53.52%</b>				

Drainage Area Calculations			<b>POST</b>	Develop.	
Area:	<b>423-AD</b>		<b>D</b>	Soil Group	
Description:	Area (SF)	Acres	CN	C	
<b>Impervious</b>					
Roadway	600	0.014	98	0.96	
Driveway	0	0.000	98	0.96	
Parking Lot	0	0.000	98	0.96	
Roof	0	0.000	98	0.96	
Sidewalk	0	0.000	98	0.96	
-	0	0.000	98	0.96	
Total	600	0.014			
<b>Pervious</b>					
Lawn	230	0.005	84	0.68	
Managed Pervious	0	0.000	80	0.6	
Forest	0	0.000	77	0.54	
Natural Wetland	0	0.000	77	0.54	
Riparian Buffer	0	0.000	77	0.54	
Open Water	0	0.000	30	0.15	
-	0	0.000	30	0.15	
Total	230	0.005			
BMP Area	0	0.000	30	0.15	
BMP Area Water	0	0.000	30	0.15	
<b>Total Area</b>	<b>830</b>	<b>0.019</b>			
<b>% Impervious</b>	<b>72.29%</b>				

	Basin Weighted	91	0.83
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	Basin Weighted	94	0.882
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Drainage Area Calculations		POST		Develop.	
Area:	424-AD	D		Soil Group	
Description:	Area (SF)	Acres	CN	C	
<b>Impervious</b>					
Roadway	1,056	0.024	98	0.96	
Driveway	562	0.013	98	0.96	
Parking Lot	0	0.000	98	0.96	
Roof	622	0.014	98	0.96	
Sidewalk	312	0.007	98	0.96	
-	0	0.000	98	0.96	
Total	2,552	0.059			
<b>Pervious</b>					
Lawn	1,625	0.037	84	0.68	
Managed Pervious	0	0.000	80	0.6	
Forest	0	0.000	77	0.54	
Natural Wetland	0	0.000	77	0.54	
Riparian Buffer	0	0.000	77	0.54	
Open Water	0	0.000	30	0.15	
-	0	0.000	30	0.15	
Total	1,625	0.037			
BMP Area	0	0.000	30	0.15	
BMP Area Water	0	0.000	30	0.15	
<b>Total Area</b>	<b>4,177</b>	<b>0.096</b>			
<b>% Impervious</b>	<b>61.10%</b>				
	Basin Weighted	93	0.851		

Drainage Area Calculations		POST		Develop.	
Area:	425-AD	D		Soil Group	
Description:	Area (SF)	Acres	CN	C	
<b>Impervious</b>					
Roadway	1,408	0.032	98	0.96	
Driveway	0	0.000	98	0.96	
Parking Lot	0	0.000	98	0.96	
Roof	0	0.000	98	0.96	
Sidewalk	524	0.012	98	0.96	
-	0	0.000	98	0.96	
Total	1,932	0.044			
<b>Pervious</b>					
Lawn	845	0.019	84	0.68	
Managed Pervious	0	0.000	80	0.6	
Forest	0	0.000	77	0.54	
Natural Wetland	0	0.000	77	0.54	
Riparian Buffer	0	0.000	77	0.54	
Open Water	0	0.000	30	0.15	
-	0	0.000	30	0.15	
Total	845	0.019			
BMP Area	0	0.000	30	0.15	
BMP Area Water	0	0.000	30	0.15	
<b>Total Area</b>	<b>2,777</b>	<b>0.064</b>			
<b>% Impervious</b>	<b>69.57%</b>				
	Basin Weighted	94	0.875		

Drainage Area Calculations		POST		Develop.	
Area:	426-AD	D		Soil Group	
Description:	Area (SF)	Acres	CN	C	
<b>Impervious</b>					
Roadway	1,408	0.032	98	0.96	
Driveway	0	0.000	98	0.96	
Parking Lot	0	0.000	98	0.96	
Roof	0	0.000	98	0.96	
Sidewalk	524	0.012	98	0.96	
-	0	0.000	98	0.96	
Total	1,932	0.044			
<b>Pervious</b>					
Lawn	11,131	0.256	84	0.68	
Managed Pervious	0	0.000	80	0.6	
Forest	0	0.000	77	0.54	
Natural Wetland	0	0.000	77	0.54	
Riparian Buffer	0	0.000	77	0.54	
Open Water	0	0.000	30	0.15	
-	0	0.000	30	0.15	
Total	11,131	0.256			
BMP Area	0	0.000	30	0.15	
BMP Area Water	0	0.000	30	0.15	
<b>Total Area</b>	<b>13,063</b>	<b>0.300</b>			
<b>% Impervious</b>	<b>14.79%</b>				
	Basin Weighted	86	0.721		

Drainage Area Calculations		POST		Develop.	
Area:	427-AD	D		Soil Group	
Description:	Area (SF)	Acres	CN	C	
<b>Impervious</b>					
Roadway	2,112	0.048	98	0.96	
Driveway	3,372	0.077	98	0.96	
Parking Lot	0	0.000	98	0.96	
Roof	3,732	0.086	98	0.96	
Sidewalk	300	0.007	98	0.96	
-	0	0.000	98	0.96	
Total	9,516	0.218			
<b>Pervious</b>					
Lawn	3,448	0.079	84	0.68	
Managed Pervious	0	0.000	80	0.6	
Forest	0	0.000	77	0.54	
Natural Wetland	0	0.000	77	0.54	
Riparian Buffer	0	0.000	77	0.54	
Open Water	0	0.000	30	0.15	
-	0	0.000	30	0.15	
Total	3,448	0.079			
BMP Area	0	0.000	30	0.15	
BMP Area Water	0	0.000	30	0.15	
<b>Total Area</b>	<b>12,964</b>	<b>0.298</b>			
<b>% Impervious</b>	<b>73.40%</b>				
	Basin Weighted	94	0.886		



Drainage Area Calculations			POST	Develop.	
Area:	428-AD		D	Soil Group	
Description:	Area (SF)	Acres	CN	C	
<b>Impervious</b>					
Roadway	2,112	0.048	98	0.96	
Driveway	3,372	0.077	98	0.96	
Parking Lot	0	0.000	98	0.96	
Roof	4,354	0.100	98	0.96	
Sidewalk	300	0.007	98	0.96	
-	0	0.000	98	0.96	
Total	10,138	0.233			
<b>Pervious</b>					
Lawn	5,490	0.126	84	0.68	
Managed Pervious	0	0.000	80	0.6	
Forest	0	0.000	77	0.54	
Natural Wetland	0	0.000	77	0.54	
Riparian Buffer	0	0.000	77	0.54	
Open Water	0	0.000	30	0.15	
-	0	0.000	30	0.15	
Total	5,490	0.126			
BMP Area	0	0.000	30	0.15	
BMP Area Water	0	0.000	30	0.15	
<b>Total Area</b>	<b>15,628</b>	<b>0.359</b>			
<b>% Impervious</b>	<b>64.87%</b>				
<b>Basin Weighted</b>			<b>93</b>	<b>0.862</b>	

Drainage Area Calculations			POST	Develop.	
Area:	429-AD		D	Soil Group	
Description:	Area (SF)	Acres	CN	C	
<b>Impervious</b>					
Roadway	1,408	0.032	98	0.96	
Driveway	562	0.013	98	0.96	
Parking Lot	0	0.000	98	0.96	
Roof	622	0.014	98	0.96	
Sidewalk	443	0.010	98	0.96	
-	0	0.000	98	0.96	
Total	3,035	0.070			
<b>Pervious</b>					
Lawn	1,899	0.044	84	0.68	
Managed Pervious	0	0.000	80	0.6	
Forest	0	0.000	77	0.54	
Natural Wetland	0	0.000	77	0.54	
Riparian Buffer	0	0.000	77	0.54	
Open Water	0	0.000	30	0.15	
-	0	0.000	30	0.15	
Total	1,899	0.044			
BMP Area	0	0.000	30	0.15	
BMP Area Water	0	0.000	30	0.15	
<b>Total Area</b>	<b>4,934</b>	<b>0.113</b>			
<b>% Impervious</b>	<b>61.51%</b>				
<b>Basin Weighted</b>			<b>93</b>	<b>0.852</b>	

Drainage Area Calculations			POST	Develop.	
Area:	430-AD		D	Soil Group	
Description:	Area (SF)	Acres	CN	C	
<b>Impervious</b>					
Roadway	1,408	0.032	98	0.96	
Driveway	1,686	0.039	98	0.96	
Parking Lot	0	0.000	98	0.96	
Roof	1,244	0.029	98	0.96	
Sidewalk	281	0.006	98	0.96	
-	0	0.000	98	0.96	
Total	4,619	0.106			
<b>Pervious</b>					
Lawn	4,636	0.106	84	0.68	
Managed Pervious	0	0.000	80	0.6	
Forest	0	0.000	77	0.54	
Natural Wetland	0	0.000	77	0.54	
Riparian Buffer	0	0.000	77	0.54	
Open Water	0	0.000	30	0.15	
-	0	0.000	30	0.15	
Total	4,636	0.106			
BMP Area	0	0.000	30	0.15	
BMP Area Water	0	0.000	30	0.15	
<b>Total Area</b>	<b>9,255</b>	<b>0.212</b>			
<b>% Impervious</b>	<b>49.91%</b>				
<b>Basin Weighted</b>			<b>91</b>	<b>0.82</b>	

Drainage Area Calculations			POST	Develop.	
Area:	431-AD		D	Soil Group	
Description:	Area (SF)	Acres	CN	C	
<b>Impervious</b>					
Roadway	0	0.000	98	0.96	
Driveway	0	0.000	98	0.96	
Parking Lot	5,882	0.135	98	0.96	
Roof	0	0.000	98	0.96	
Sidewalk	0	0.000	98	0.96	
-	0	0.000	98	0.96	
Total	5,882	0.135			
<b>Pervious</b>					
Lawn	3,930	0.090	84	0.68	
Managed Pervious	0	0.000	80	0.6	
Forest	0	0.000	77	0.54	
Natural Wetland	0	0.000	77	0.54	
Riparian Buffer	0	0.000	77	0.54	
Open Water	0	0.000	30	0.15	
-	0	0.000	30	0.15	
Total	3,930	0.090			
BMP Area	0	0.000	30	0.15	
BMP Area Water	0	0.000	30	0.15	
<b>Total Area</b>	<b>9,812</b>	<b>0.225</b>			
<b>% Impervious</b>	<b>59.95%</b>				
<b>Basin Weighted</b>			<b>92</b>	<b>0.848</b>	

Drainage Area Calculations			POST	Develop.	
Area: 432-AD			D	Soil Group	
Description:	Area (SF)	Acres	CN	C	
<b>Impervious</b>					
Roadway	1,408	0.032	98	0.96	
Driveway	2,248	0.052	98	0.96	
Parking Lot	0	0.000	98	0.96	
Roof	2,177	0.050	98	0.96	
Sidewalk	306	0.007	98	0.96	
-	0	0.000	98	0.96	
Total	6,139	0.141			
<b>Pervious</b>					
Lawn	3,200	0.073	84	0.68	
Managed Pervious	0	0.000	80	0.6	
Forest	0	0.000	77	0.54	
Natural Wetland	0	0.000	77	0.54	
Riparian Buffer	0	0.000	77	0.54	
Open Water	0	0.000	30	0.15	
-	0	0.000	30	0.15	
Total	3,200	0.073			
BMP Area	0	0.000	30	0.15	
BMP Area Water	0	0.000	30	0.15	
<b>Total Area</b>	<b>9,339</b>	<b>0.214</b>			
<b>% Impervious</b>	<b>65.74%</b>				
	<b>Basin Weighted</b>		<b>93</b>	<b>0.864</b>	

Drainage Area Calculations			POST	Develop.	
Area: 433-CB			D	Soil Group	
Description:	Area (SF)	Acres	CN	C	
<b>Impervious</b>					
Roadway	1,408	0.032	98	0.96	
Driveway	2,248	0.052	98	0.96	
Parking Lot	0	0.000	98	0.96	
Roof	2,488	0.057	98	0.96	
Sidewalk	200	0.005	98	0.96	
-	0	0.000	98	0.96	
Total	6,344	0.146			
<b>Pervious</b>					
Lawn	2,351	0.054	84	0.68	
Managed Pervious	0	0.000	80	0.6	
Forest	0	0.000	77	0.54	
Natural Wetland	0	0.000	77	0.54	
Riparian Buffer	0	0.000	77	0.54	
Open Water	0	0.000	30	0.15	
-	0	0.000	30	0.15	
Total	2,351	0.054			
BMP Area	0	0.000	30	0.15	
BMP Area Water	0	0.000	30	0.15	
<b>Total Area</b>	<b>8,695</b>	<b>0.200</b>			
<b>% Impervious</b>	<b>72.96%</b>				
	<b>Basin Weighted</b>		<b>94</b>	<b>0.884</b>	

Drainage Area Calculations			POST	Develop.	
Area: 434-AD			D	Soil Group	
Description:	Area (SF)	Acres	CN	C	
<b>Impervious</b>					
Roadway	1,408	0.032	98	0.96	
Driveway	2,248	0.052	98	0.96	
Parking Lot	0	0.000	98	0.96	
Roof	2,488	0.057	98	0.96	
Sidewalk	200	0.005	98	0.96	
-	0	0.000	98	0.96	
Total	6,344	0.146			
<b>Pervious</b>					
Lawn	2,012	0.046	84	0.68	
Managed Pervious	0	0.000	80	0.6	
Forest	0	0.000	77	0.54	
Natural Wetland	0	0.000	77	0.54	
Riparian Buffer	0	0.000	77	0.54	
Open Water	0	0.000	30	0.15	
-	0	0.000	30	0.15	
Total	2,012	0.046			
BMP Area	0	0.000	30	0.15	
BMP Area Water	0	0.000	30	0.15	
<b>Total Area</b>	<b>8,356</b>	<b>0.192</b>			
<b>% Impervious</b>	<b>75.92%</b>				
	<b>Basin Weighted</b>		<b>95</b>	<b>0.893</b>	

Drainage Area Calculations			POST	Develop.	
Area: 435-CB			D	Soil Group	
Description:	Area (SF)	Acres	CN	C	
<b>Impervious</b>					
Roadway	1,408	0.032	98	0.96	
Driveway	1,686	0.039	98	0.96	
Parking Lot	0	0.000	98	0.96	
Roof	1,866	0.043	98	0.96	
Sidewalk	281	0.006	98	0.96	
-	0	0.000	98	0.96	
Total	5,241	0.120			
<b>Pervious</b>					
Lawn	1,941	0.045	84	0.68	
Managed Pervious	0	0.000	80	0.6	
Forest	0	0.000	77	0.54	
Natural Wetland	0	0.000	77	0.54	
Riparian Buffer	0	0.000	77	0.54	
Open Water	0	0.000	30	0.15	
-	0	0.000	30	0.15	
Total	1,941	0.045			
BMP Area	0	0.000	30	0.15	
BMP Area Water	0	0.000	30	0.15	
<b>Total Area</b>	<b>7,182</b>	<b>0.165</b>			
<b>% Impervious</b>	<b>72.97%</b>				
	<b>Basin Weighted</b>		<b>94</b>	<b>0.884</b>	

Drainage Area Calculations		POST		Develop.	
Area: 436-AD		D		Soil Group	
Description:	Area (SF)	Acres	CN	C	
<b>Impervious</b>					
Roadway	1,056	0.024	98	0.96	
Driveway	1,124	0.026	98	0.96	
Parking Lot	0	0.000	98	0.96	
Roof	933	0.021	98	0.96	
Sidewalk	231	0.005	98	0.96	
-	0	0.000	98	0.96	
Total	3,344	0.077			
<b>Pervious</b>					
Lawn	562	0.013	84	0.68	
Managed Pervious	0	0.000	80	0.6	
Forest	0	0.000	77	0.54	
Natural Wetland	0	0.000	77	0.54	
Riparian Buffer	0	0.000	77	0.54	
Open Water	0	0.000	30	0.15	
-	0	0.000	30	0.15	
Total	562	0.013			
BMP Area	0	0.000	30	0.15	
BMP Area Water	0	0.000	30	0.15	
<b>Total Area</b>	<b>3,906</b>	<b>0.090</b>			
<b>% Impervious</b>	<b>85.61%</b>				
<b>Basin Weighted</b>			<b>96</b>	<b>0.92</b>	

Drainage Area Calculations		POST		Develop.	
Area: 437-AD		D		Soil Group	
Description:	Area (SF)	Acres	CN	C	
<b>Impervious</b>					
Roadway	1,760	0.040	98	0.96	
Driveway	562	0.013	98	0.96	
Parking Lot	0	0.000	98	0.96	
Roof	622	0.014	98	0.96	
Sidewalk	574	0.013	98	0.96	
-	0	0.000	98	0.96	
Total	3,518	0.081			
<b>Pervious</b>					
Lawn	2,023	0.046	84	0.68	
Managed Pervious	0	0.000	80	0.6	
Forest	0	0.000	77	0.54	
Natural Wetland	0	0.000	77	0.54	
Riparian Buffer	0	0.000	77	0.54	
Open Water	0	0.000	30	0.15	
-	0	0.000	30	0.15	
Total	2,023	0.046			
BMP Area	0	0.000	30	0.15	
BMP Area Water	0	0.000	30	0.15	
<b>Total Area</b>	<b>5,541</b>	<b>0.127</b>			
<b>% Impervious</b>	<b>63.49%</b>				
<b>Basin Weighted</b>			<b>93</b>	<b>0.858</b>	

Drainage Area Calculations		POST		Develop.	
Area: 438-CB		D		Soil Group	
Description:	Area (SF)	Acres	CN	C	
<b>Impervious</b>					
Roadway	1,552	0.036	98	0.96	
Driveway	0	0.000	98	0.96	
Parking Lot	0	0.000	98	0.96	
Roof	0	0.000	98	0.96	
Sidewalk	131	0.003	98	0.96	
-	0	0.000	98	0.96	
Total	1,683	0.039			
<b>Pervious</b>					
Lawn	206	0.005	84	0.68	
Managed Pervious	0	0.000	80	0.6	
Forest	0	0.000	77	0.54	
Natural Wetland	0	0.000	77	0.54	
Riparian Buffer	0	0.000	77	0.54	
Open Water	0	0.000	30	0.15	
-	0	0.000	30	0.15	
Total	206	0.005			
BMP Area	0	0.000	30	0.15	
BMP Area Water	0	0.000	30	0.15	
<b>Total Area</b>	<b>1,889</b>	<b>0.043</b>			
<b>% Impervious</b>	<b>89.09%</b>				
<b>Basin Weighted</b>			<b>96</b>	<b>0.929</b>	

Drainage Area Calculations		POST		Develop.	
Area: 439-AD		D		Soil Group	
Description:	Area (SF)	Acres	CN	C	
<b>Impervious</b>					
Roadway	0	0.000	98	0.96	
Driveway	0	0.000	98	0.96	
Parking Lot	4,896	0.112	98	0.96	
Roof	0	0.000	98	0.96	
Sidewalk	0	0.000	98	0.96	
-	0	0.000	98	0.96	
Total	4,896	0.112			
<b>Pervious</b>					
Lawn	1,763	0.040	84	0.68	
Managed Pervious	0	0.000	80	0.6	
Forest	0	0.000	77	0.54	
Natural Wetland	0	0.000	77	0.54	
Riparian Buffer	0	0.000	77	0.54	
Open Water	0	0.000	30	0.15	
-	0	0.000	30	0.15	
Total	1,763	0.040			
BMP Area	0	0.000	30	0.15	
BMP Area Water	0	0.000	30	0.15	
<b>Total Area</b>	<b>6,659</b>	<b>0.153</b>			
<b>% Impervious</b>	<b>73.52%</b>				
<b>Basin Weighted</b>			<b>94</b>	<b>0.886</b>	

Drainage Area Calculations			POST	Develop.	
Area: 440-CB			D	Soil Group	
Description:	Area (SF)	Acres	CN	C	
<b>Impervious</b>					
Roadway	2,112	0.048	98	0.96	
Driveway	3,372	0.077	98	0.96	
Parking Lot	0	0.000	98	0.96	
Roof	3,732	0.086	98	0.96	
Sidewalk	300	0.007	98	0.96	
-	0	0.000	98	0.96	
Total	9,516	0.218			
<b>Pervious</b>					
Lawn	2,515	0.058	84	0.68	
Managed Pervious	0	0.000	80	0.6	
Forest	0	0.000	77	0.54	
Natural Wetland	0	0.000	77	0.54	
Riparian Buffer	0	0.000	77	0.54	
Open Water	0	0.000	30	0.15	
-	0	0.000	30	0.15	
Total	2,515	0.058			
BMP Area	0	0.000	30	0.15	
BMP Area Water	0	0.000	30	0.15	
<b>Total Area</b>	<b>12,031</b>	<b>0.276</b>			
<b>% Impervious</b>	<b>79.10%</b>				
<b>Basin Weighted</b>			<b>95</b>	<b>0.901</b>	

Drainage Area Calculations			POST	Develop.	
Area: 441-CB			D	Soil Group	
Description:	Area (SF)	Acres	CN	C	
<b>Impervious</b>					
Roadway	2,112	0.048	98	0.96	
Driveway	3,372	0.077	98	0.96	
Parking Lot	0	0.000	98	0.96	
Roof	3,732	0.086	98	0.96	
Sidewalk	300	0.007	98	0.96	
-	0	0.000	98	0.96	
Total	9,516	0.218			
<b>Pervious</b>					
Lawn	3,391	0.078	84	0.68	
Managed Pervious	0	0.000	80	0.6	
Forest	0	0.000	77	0.54	
Natural Wetland	0	0.000	77	0.54	
Riparian Buffer	0	0.000	77	0.54	
Open Water	0	0.000	30	0.15	
-	0	0.000	30	0.15	
Total	3,391	0.078			
BMP Area	0	0.000	30	0.15	
BMP Area Water	0	0.000	30	0.15	
<b>Total Area</b>	<b>12,907</b>	<b>0.296</b>			
<b>% Impervious</b>	<b>73.73%</b>				
<b>Basin Weighted</b>			<b>94</b>	<b>0.886</b>	

Drainage Area Calculations			POST	Develop.	
Area: 442-AD			D	Soil Group	
Description:	Area (SF)	Acres	CN	C	
<b>Impervious</b>					
Roadway	704	0.016	98	0.96	
Driveway	562	0.013	98	0.96	
Parking Lot	0	0.000	98	0.96	
Roof	622	0.014	98	0.96	
Sidewalk	181	0.004	98	0.96	
-	0	0.000	98	0.96	
Total	2,069	0.047			
<b>Pervious</b>					
Lawn	3,351	0.077	84	0.68	
Managed Pervious	0	0.000	80	0.6	
Forest	0	0.000	77	0.54	
Natural Wetland	0	0.000	77	0.54	
Riparian Buffer	0	0.000	77	0.54	
Open Water	0	0.000	30	0.15	
-	0	0.000	30	0.15	
Total	3,351	0.077			
BMP Area	0	0.000	30	0.15	
BMP Area Water	0	0.000	30	0.15	
<b>Total Area</b>	<b>5,420</b>	<b>0.124</b>			
<b>% Impervious</b>	<b>38.17%</b>				
<b>Basin Weighted</b>			<b>89</b>	<b>0.787</b>	

Drainage Area Calculations			POST	Develop.	
Area: 443-CB			D	Soil Group	
Description:	Area (SF)	Acres	CN	C	
<b>Impervious</b>					
Roadway	2,400	0.055	98	0.96	
Driveway	0	0.000	98	0.96	
Parking Lot	0	0.000	98	0.96	
Roof	0	0.000	98	0.96	
Sidewalk	0	0.000	98	0.96	
-	0	0.000	98	0.96	
Total	2,400	0.055			
<b>Pervious</b>					
Lawn	153	0.004	84	0.68	
Managed Pervious	0	0.000	80	0.6	
Forest	0	0.000	77	0.54	
Natural Wetland	0	0.000	77	0.54	
Riparian Buffer	0	0.000	77	0.54	
Open Water	0	0.000	30	0.15	
-	0	0.000	30	0.15	
Total	153	0.004			
BMP Area	0	0.000	30	0.15	
BMP Area Water	0	0.000	30	0.15	
<b>Total Area</b>	<b>2,553</b>	<b>0.059</b>			
<b>% Impervious</b>	<b>94.01%</b>				
<b>Basin Weighted</b>			<b>97</b>	<b>0.943</b>	

Drainage Area Calculations			POST	Develop.	
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Drainage Area Calculations			POST	Develop.	
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Area: <b>444-CB</b>			D	Soil Group
Description:	Area (SF)	Acres	CN	C
<b>Impervious</b>				
Roadway	2,112	0.048	98	0.96
Driveway	1,686	0.039	98	0.96
Parking Lot	0	0.000	98	0.96
Roof	1,866	0.043	98	0.96
Sidewalk	543	0.012	98	0.96
-	0	0.000	98	0.96
Total	6,207	0.142		
<b>Pervious</b>				
Lawn	2,428	0.056	84	0.68
Managed Pervious	0	0.000	80	0.6
Forest	0	0.000	77	0.54
Natural Wetland	0	0.000	77	0.54
Riparian Buffer	0	0.000	77	0.54
Open Water	0	0.000	30	0.15
-	0	0.000	30	0.15
Total	2,428	0.056		
BMP Area	0	0.000	30	0.15
BMP Area Water	0	0.000	30	0.15
<b>Total Area</b>	<b>8,635</b>	<b>0.198</b>		
<b>% Impervious</b>	<b>71.88%</b>			
<b>Basin Weighted</b>			<b>94</b>	<b>0.881</b>

Area: <b>445-CB</b>			D	Soil Group
Description:	Area (SF)	Acres	CN	C
<b>Impervious</b>				
Roadway	2,112	0.048	98	0.96
Driveway	1,686	0.039	98	0.96
Parking Lot	0	0.000	98	0.96
Roof	3,732	0.086	98	0.96
Sidewalk	543	0.012	98	0.96
-	0	0.000	98	0.96
Total	8,073	0.185		
<b>Pervious</b>				
Lawn	12,076	0.277	84	0.68
Managed Pervious	0	0.000	80	0.6
Forest	0	0.000	77	0.54
Natural Wetland	0	0.000	77	0.54
Riparian Buffer	0	0.000	77	0.54
Open Water	0	0.000	30	0.15
-	0	0.000	30	0.15
Total	12,076	0.277		
BMP Area	0	0.000	30	0.15
BMP Area Water	0	0.000	30	0.15
<b>Total Area</b>	<b>20,149</b>	<b>0.463</b>		
<b>% Impervious</b>	<b>40.07%</b>			
<b>Basin Weighted</b>			<b>90</b>	<b>0.792</b>

Drainage Area Calculations			POST	Develop.
Area: <b>446-CB</b>			D	Soil Group
Description:	Area (SF)	Acres	CN	C
<b>Impervious</b>				
Roadway	2,112	0.048	98	0.96
Driveway	3,372	0.077	98	0.96
Parking Lot	0	0.000	98	0.96
Roof	3,732	0.086	98	0.96
Sidewalk	300	0.007	98	0.96
-	0	0.000	98	0.96
Total	9,516	0.218		
<b>Pervious</b>				
Lawn	2,938	0.067	84	0.68
Managed Pervious	0	0.000	80	0.6
Forest	0	0.000	77	0.54
Natural Wetland	0	0.000	77	0.54
Riparian Buffer	0	0.000	77	0.54
Open Water	0	0.000	30	0.15
-	0	0.000	30	0.15
Total	2,938	0.067		
BMP Area	0	0.000	30	0.15
BMP Area Water	0	0.000	30	0.15
<b>Total Area</b>	<b>12,454</b>	<b>0.286</b>		
<b>% Impervious</b>	<b>76.41%</b>			
<b>Basin Weighted</b>			<b>95</b>	<b>0.894</b>

Drainage Area Calculations			POST	Develop.
Area: <b>447-AD</b>			D	Soil Group
Description:	Area (SF)	Acres	CN	C
<b>Impervious</b>				
Roadway	2,112	0.048	98	0.96
Driveway	2,810	0.065	98	0.96
Parking Lot	0	0.000	98	0.96
Roof	3,110	0.071	98	0.96
Sidewalk	381	0.009	98	0.96
-	0	0.000	98	0.96
Total	8,413	0.193		
<b>Pervious</b>				
Lawn	4,192	0.096	84	0.68
Managed Pervious	0	0.000	80	0.6
Forest	0	0.000	77	0.54
Natural Wetland	0	0.000	77	0.54
Riparian Buffer	0	0.000	77	0.54
Open Water	0	0.000	30	0.15
-	0	0.000	30	0.15
Total	4,192	0.096		
BMP Area	0	0.000	30	0.15
BMP Area Water	0	0.000	30	0.15
<b>Total Area</b>	<b>12,605</b>	<b>0.289</b>		
<b>% Impervious</b>	<b>66.74%</b>			
<b>Basin Weighted</b>			<b>93</b>	<b>0.867</b>

Drainage Area Calculations			POST	Develop.
Area: <b>448-CB</b>			D	Soil Group

Drainage Area Calculations			POST	Develop.
Area: <b>449-CB</b>			D	Soil Group

Description:	Area (SF)	Acres	CN	C
<b>Impervious</b>				
Roadway	1,760	0.040	98	0.96
Driveway	2,810	0.065	98	0.96
Parking Lot	0	0.000	98	0.96
Roof	3,110	0.071	98	0.96
Sidewalk	250	0.006	98	0.96
-	0	0.000	98	0.96
Total	7,930	0.182		
<b>Pervious</b>				
Lawn	3,014	0.069	84	0.68
Managed Pervious	0	0.000	80	0.6
Forest	0	0.000	77	0.54
Natural Wetland	0	0.000	77	0.54
Riparian Buffer	0	0.000	77	0.54
Open Water	0	0.000	30	0.15
-	0	0.000	30	0.15
Total	3,014	0.069		
BMP Area	0	0.000	30	0.15
BMP Area Water	0	0.000	30	0.15
<b>Total Area</b>	<b>10,944</b>	<b>0.251</b>		
<b>% Impervious</b>	<b>72.46%</b>			
<b>Basin Weighted</b>			<b>94</b>	<b>0.883</b>

Description:	Area (SF)	Acres	CN	C
<b>Impervious</b>				
Roadway	1,408	0.032	98	0.96
Driveway	1,686	0.039	98	0.96
Parking Lot	0	0.000	98	0.96
Roof	1,866	0.043	98	0.96
Sidewalk	362	0.008	98	0.96
-	0	0.000	98	0.96
Total	5,322	0.122		
<b>Pervious</b>				
Lawn	4,519	0.104	84	0.68
Managed Pervious	0	0.000	80	0.6
Forest	0	0.000	77	0.54
Natural Wetland	0	0.000	77	0.54
Riparian Buffer	0	0.000	77	0.54
Open Water	0	0.000	30	0.15
-	0	0.000	30	0.15
Total	4,519	0.104		
BMP Area	0	0.000	30	0.15
BMP Area Water	0	0.000	30	0.15
<b>Total Area</b>	<b>9,841</b>	<b>0.226</b>		
<b>% Impervious</b>	<b>54.08%</b>			
<b>Basin Weighted</b>			<b>92</b>	<b>0.831</b>

Drainage Area Calculations		POST	Develop.	
Area:	450-CB	D	Soil Group	
Description:	Area (SF)	Acres	CN	C
<b>Impervious</b>				
Roadway	2,400	0.055	98	0.96
Driveway	562	0.013	98	0.96
Parking Lot	0	0.000	98	0.96
Roof	1,244	0.029	98	0.96
Sidewalk	0	0.000	98	0.96
-	0	0.000	98	0.96
Total	4,206	0.097		
<b>Pervious</b>				
Lawn	5,618	0.129	84	0.68
Managed Pervious	0	0.000	80	0.6
Forest	0	0.000	77	0.54
Natural Wetland	0	0.000	77	0.54
Riparian Buffer	0	0.000	77	0.54
Open Water	0	0.000	30	0.15
-	0	0.000	30	0.15
Total	5,618	0.129		
BMP Area	0	0.000	30	0.15
BMP Area Water	0	0.000	30	0.15
<b>Total Area</b>	<b>9,824</b>	<b>0.226</b>		
<b>% Impervious</b>	<b>42.81%</b>			
<b>Basin Weighted</b>			<b>90</b>	<b>0.8</b>

Drainage Area Calculations		POST	Develop.	
Area:	451-CB	D	Soil Group	
Description:	Area (SF)	Acres	CN	C
<b>Impervious</b>				
Roadway	1,056	0.024	98	0.96
Driveway	1,124	0.026	98	0.96
Parking Lot	0	0.000	98	0.96
Roof	622	0.014	98	0.96
Sidewalk	393	0.009	98	0.96
-	0	0.000	98	0.96
Total	3,195	0.073		
<b>Pervious</b>				
Lawn	3,580	0.082	84	0.68
Managed Pervious	0	0.000	80	0.6
Forest	0	0.000	77	0.54
Natural Wetland	0	0.000	77	0.54
Riparian Buffer	0	0.000	77	0.54
Open Water	0	0.000	30	0.15
-	0	0.000	30	0.15
Total	3,580	0.082		
BMP Area	0	0.000	30	0.15
BMP Area Water	0	0.000	30	0.15
<b>Total Area</b>	<b>6,775</b>	<b>0.156</b>		
<b>% Impervious</b>	<b>47.16%</b>			
<b>Basin Weighted</b>			<b>91</b>	<b>0.812</b>

Drainage Area Calculations		POST	Develop.	
Area:	452-CB	D	Soil Group	
Description:	Area (SF)	Acres	CN	C

Drainage Area Calculations		POST	Develop.	
Area:	453-CB	D	Soil Group	
Description:	Area (SF)	Acres	CN	C

<b>Impervious</b>				
Roadway	1,408	0.032	98	0.96
Driveway	0	0.000	98	0.96
Parking Lot	0	0.000	98	0.96
Roof	622	0.014	98	0.96
Sidewalk	524	0.012	98	0.96
-	0	0.000	98	0.96
Total	2,554	0.059		
<b>Pervious</b>				
Lawn	12,038	0.276	84	0.68
Managed Pervious	0	0.000	80	0.6
Forest	0	0.000	77	0.54
Natural Wetland	0	0.000	77	0.54
Riparian Buffer	0	0.000	77	0.54
Open Water	0	0.000	30	0.15
-	0	0.000	30	0.15
Total	12,038	0.276		
BMP Area	0	0.000	30	0.15
BMP Area Water	0	0.000	30	0.15
<b>Total Area</b>	<b>14,592</b>	<b>0.335</b>		
<b>% Impervious</b>	<b>17.50%</b>			
<b>Basin Weighted</b>			<b>86</b>	<b>0.729</b>

<b>Impervious</b>				
Roadway	1,408	0.032	98	0.96
Driveway	1,124	0.026	98	0.96
Parking Lot	0	0.000	98	0.96
Roof	622	0.014	98	0.96
Sidewalk	524	0.012	98	0.96
-	0	0.000	98	0.96
Total	3,678	0.084		
<b>Pervious</b>				
Lawn	4,515	0.104	84	0.68
Managed Pervious	0	0.000	80	0.6
Forest	0	0.000	77	0.54
Natural Wetland	0	0.000	77	0.54
Riparian Buffer	0	0.000	77	0.54
Open Water	0	0.000	30	0.15
-	0	0.000	30	0.15
Total	4,515	0.104		
BMP Area	0	0.000	30	0.15
BMP Area Water	0	0.000	30	0.15
<b>Total Area</b>	<b>8,193</b>	<b>0.188</b>		
<b>% Impervious</b>	<b>44.89%</b>			
<b>Basin Weighted</b>			<b>90</b>	<b>0.806</b>

Drainage Area Calculations		POST		Develop.	
Area: <b>453C-AD</b>		D Soil Group			
Description:	Area (SF)	Acres	CN	C	
<b>Impervious</b>					
Roadway	0	0.000	98	0.96	
Driveway	0	0.000	98	0.96	
Parking Lot	0	0.000	98	0.96	
Roof	1,244	0.029	98	0.96	
Sidewalk	0	0.000	98	0.96	
-	0	0.000	98	0.96	
Total	1,244	0.029			
<b>Pervious</b>					
Lawn	5,727	0.131	84	0.68	
Managed Pervious	0	0.000	80	0.6	
Forest	0	0.000	77	0.54	
Natural Wetland	0	0.000	77	0.54	
Riparian Buffer	0	0.000	77	0.54	
Open Water	0	0.000	30	0.15	
-	0	0.000	30	0.15	
Total	5,727	0.131			
BMP Area	0	0.000	30	0.15	
BMP Area Water	0	0.000	30	0.15	
<b>Total Area</b>	<b>6,971</b>	<b>0.160</b>			
<b>% Impervious</b>	<b>17.85%</b>				
<b>Basin Weighted</b>			<b>86</b>	<b>0.73</b>	

Drainage Area Calculations		POST		Develop.	
Area: <b>454-CB</b>		D Soil Group			
Description:	Area (SF)	Acres	CN	C	
<b>Impervious</b>					
Roadway	1,408	0.032	98	0.96	
Driveway	0	0.000	98	0.96	
Parking Lot	0	0.000	98	0.96	
Roof	0	0.000	98	0.96	
Sidewalk	524	0.012	98	0.96	
-	0	0.000	98	0.96	
Total	1,932	0.044			
<b>Pervious</b>					
Lawn	750	0.017	84	0.68	
Managed Pervious	0	0.000	80	0.6	
Forest	0	0.000	77	0.54	
Natural Wetland	0	0.000	77	0.54	
Riparian Buffer	0	0.000	77	0.54	
Open Water	0	0.000	30	0.15	
-	0	0.000	30	0.15	
Total	750	0.017			
BMP Area	0	0.000	30	0.15	
BMP Area Water	0	0.000	30	0.15	
<b>Total Area</b>	<b>2,682</b>	<b>0.062</b>			
<b>% Impervious</b>	<b>72.04%</b>				
<b>Basin Weighted</b>			<b>94</b>	<b>0.882</b>	

Drainage Area Calculations		POST		Develop.	
Area: <b>455-CB</b>		D Soil Group			
Description:	Area (SF)	Acres	CN	C	
<b>Impervious</b>					

Drainage Area Calculations		POST		Develop.	
Area: <b>456-CB</b>		D Soil Group			
Description:	Area (SF)	Acres	CN	C	
<b>Impervious</b>					



Roadway	1,408	0.032	98	0.96
Driveway	1,124	0.026	98	0.96
Parking Lot	0	0.000	98	0.96
Roof	1,866	0.043	98	0.96
Sidewalk	524	0.012	98	0.96
-	0	0.000	98	0.96
Total	4,922	0.113		
<b>Pervious</b>				
Lawn	11,908	0.273	84	0.68
Managed Pervious	0	0.000	80	0.6
Forest	0	0.000	77	0.54
Natural Wetland	0	0.000	77	0.54
Riparian Buffer	0	0.000	77	0.54
Open Water	0	0.000	30	0.15
-	0	0.000	30	0.15
Total	11,908	0.273		
BMP Area	0	0.000	30	0.15
BMP Area Water	0	0.000	30	0.15
<b>Total Area</b>	<b>16,830</b>	<b>0.386</b>		
<b>% Impervious</b>	<b>29.25%</b>			
	<b>Basin Weighted</b>		<b>88</b>	<b>0.762</b>

Roadway	0	0.000	98	0.96
Driveway	0	0.000	98	0.96
Parking Lot	0	0.000	98	0.96
Roof	0	0.000	98	0.96
Sidewalk	0	0.000	98	0.96
-	0	0.000	98	0.96
Total	0	0.000		
<b>Pervious</b>				
Lawn	1,937	0.044	84	0.68
Managed Pervious	0	0.000	80	0.6
Forest	0	0.000	77	0.54
Natural Wetland	0	0.000	77	0.54
Riparian Buffer	0	0.000	77	0.54
Open Water	0	0.000	30	0.15
-	0	0.000	30	0.15
Total	1,937	0.044		
BMP Area	0	0.000	30	0.15
BMP Area Water	0	0.000	30	0.15
<b>Total Area</b>	<b>1,937</b>	<b>0.044</b>		
<b>% Impervious</b>	<b>0.00%</b>			
	<b>Basin Weighted</b>		<b>84</b>	<b>0.68</b>

Drainage Area Calculations			POST	Develop.	
Area: <b>457-CB</b>			D	Soil Group	
Description:	Area (SF)	Acres	CN	C	
<b>Impervious</b>					
Roadway	1,760	0.040	98	0.96	
Driveway	1,124	0.026	98	0.96	
Parking Lot	0	0.000	98	0.96	
Roof	1,244	0.029	98	0.96	
Sidewalk	655	0.015	98	0.96	
-	0	0.000	98	0.96	
Total	4,783	0.110			
<b>Pervious</b>					
Lawn	11,279	0.259	84	0.68	
Managed Pervious	0	0.000	80	0.6	
Forest	0	0.000	77	0.54	
Natural Wetland	0	0.000	77	0.54	
Riparian Buffer	0	0.000	77	0.54	
Open Water	0	0.000	30	0.15	
-	0	0.000	30	0.15	
Total	11,279	0.259			
BMP Area	0	0.000	30	0.15	
BMP Area Water	0	0.000	30	0.15	
<b>Total Area</b>	<b>16,062</b>	<b>0.369</b>			
<b>% Impervious</b>	<b>29.78%</b>				
	<b>Basin Weighted</b>		<b>88</b>	<b>0.763</b>	

Drainage Area Calculations			POST	Develop.	
Area: <b>458-CB</b>			D	Soil Group	
Description:	Area (SF)	Acres	CN	C	
<b>Impervious</b>					
Roadway	2,400	0.055	98	0.96	
Driveway	0	0.000	98	0.96	
Parking Lot	7,875	0.181	98	0.96	
Roof	0	0.000	98	0.96	
Sidewalk	262	0.006	98	0.96	
-	0	0.000	98	0.96	
Total	10,537	0.242			
<b>Pervious</b>					
Lawn	3,025	0.069	84	0.68	
Managed Pervious	0	0.000	80	0.6	
Forest	0	0.000	77	0.54	
Natural Wetland	0	0.000	77	0.54	
Riparian Buffer	0	0.000	77	0.54	
Open Water	0	0.000	30	0.15	
-	0	0.000	30	0.15	
Total	3,025	0.069			
BMP Area	0	0.000	30	0.15	
BMP Area Water	0	0.000	30	0.15	
<b>Total Area</b>	<b>13,562</b>	<b>0.311</b>			
<b>% Impervious</b>	<b>77.70%</b>				
	<b>Basin Weighted</b>		<b>95</b>	<b>0.898</b>	

Drainage Area Calculations			POST	Develop.	
Area: <b>459-CB</b>			D	Soil Group	
Description:	Area (SF)	Acres	CN	C	
<b>Impervious</b>					
Roadway	0	0.000	98	0.96	

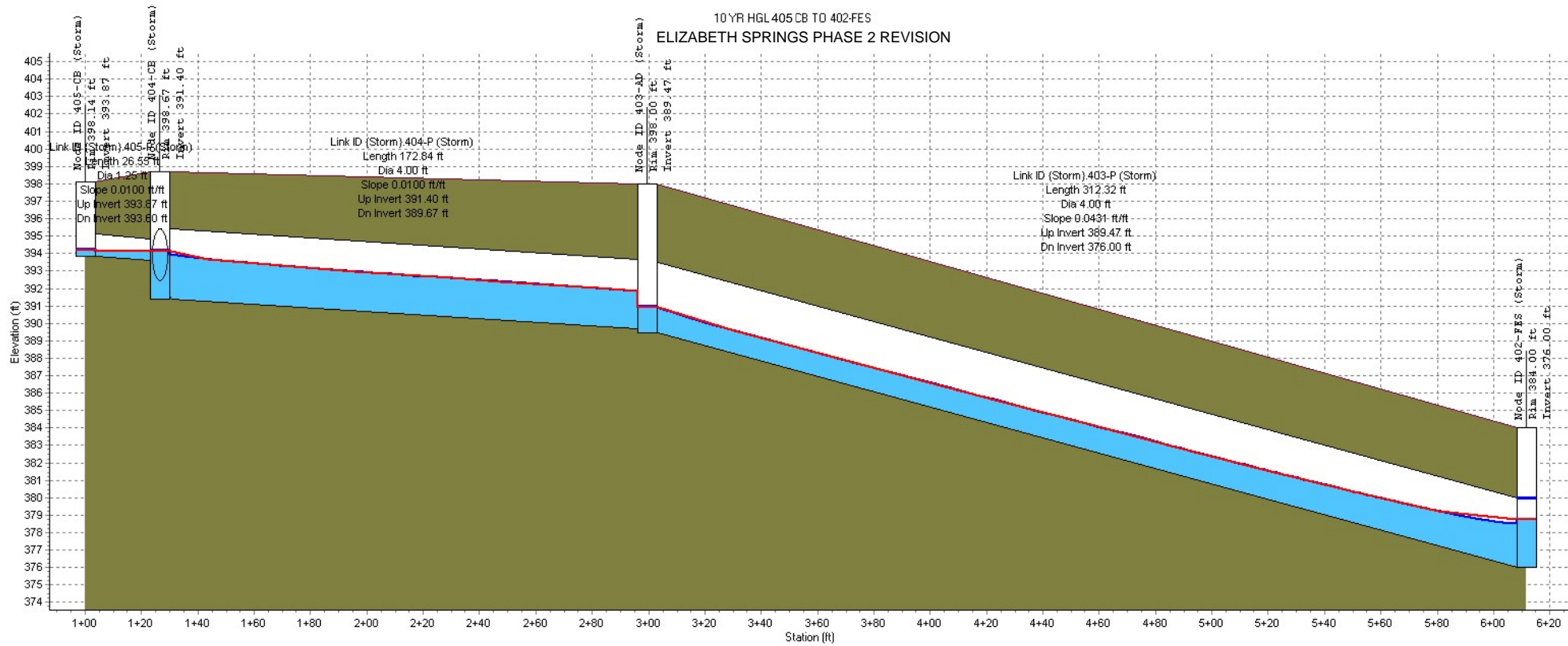
Drainage Area Calculations			POST	Develop.	
Area: <b>460-CB</b>			D	Soil Group	
Description:	Area (SF)	Acres	CN	C	
<b>Impervious</b>					
Roadway	670	0.015	98	0.96	



Driveway	0	0.000	98	0.96
Parking Lot	9,365	0.215	98	0.96
Roof	0	0.000	98	0.96
Sidewalk	393	0.009	98	0.96
-	0	0.000	98	0.96
Total	9,758	0.224		
<b>Pervious</b>				
Lawn	6,628	0.152	84	0.68
Managed Pervious	0	0.000	80	0.6
Forest	0	0.000	77	0.54
Natural Wetland	0	0.000	77	0.54
Riparian Buffer	0	0.000	77	0.54
Open Water	0	0.000	30	0.15
-	0	0.000	30	0.15
Total	6,628	0.152		
BMP Area	0	0.000	30	0.15
BMP Area Water	0	0.000	30	0.15
<b>Total Area</b>	<b>16,386</b>	<b>0.376</b>		
<b>% Impervious</b>	<b>59.55%</b>			
	<b>Basin Weighted</b>		<b>92</b>	<b>0.847</b>

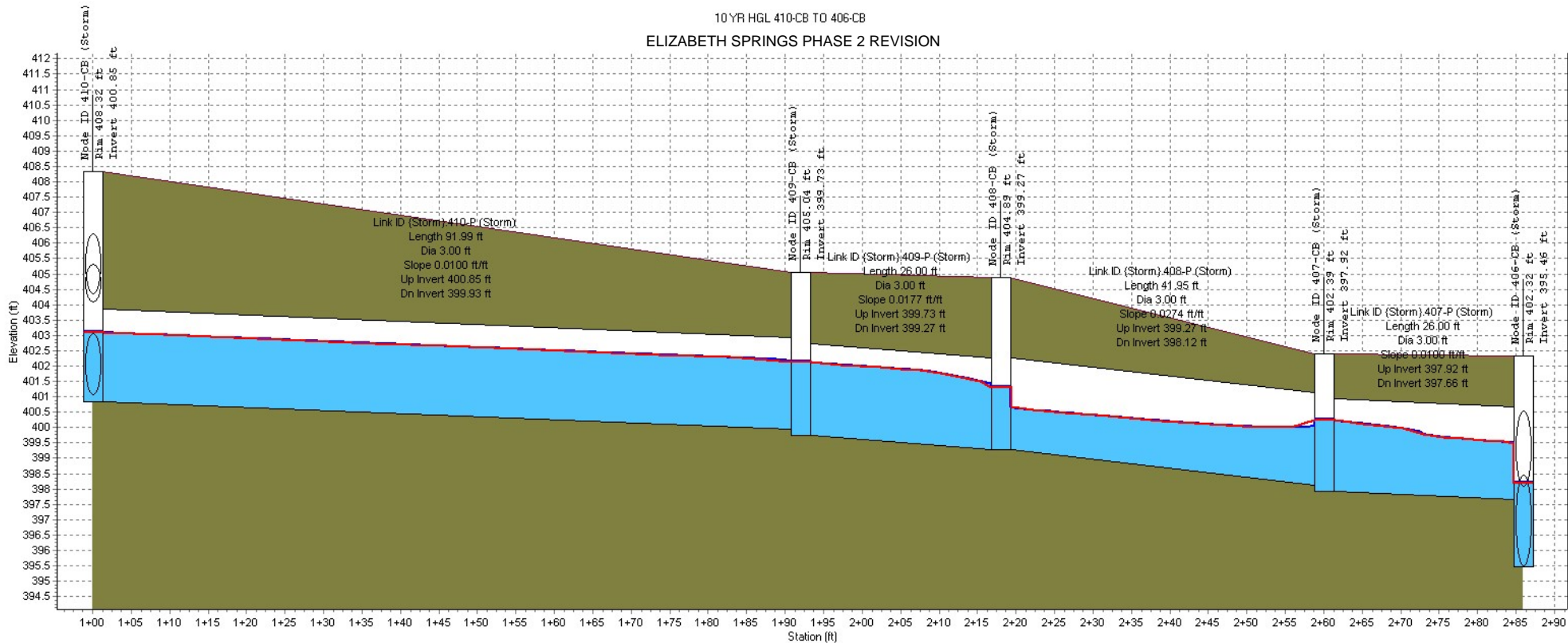
Driveway	0	0.000	98	0.96
Parking Lot	0	0.000	98	0.96
Roof	0	0.000	98	0.96
Sidewalk	0	0.000	98	0.96
-	0	0.000	98	0.96
Total	670	0.015		
<b>Pervious</b>				
Lawn	0	0.000	84	0.68
Managed Pervious	0	0.000	80	0.6
Forest	0	0.000	77	0.54
Natural Wetland	0	0.000	77	0.54
Riparian Buffer	0	0.000	77	0.54
Open Water	0	0.000	30	0.15
-	0	0.000	30	0.15
Total	0	0.000		
BMP Area	0	0.000	30	0.15
BMP Area Water	0	0.000	30	0.15
<b>Total Area</b>	<b>670</b>	<b>0.015</b>		
<b>% Impervious</b>	<b>100.00%</b>			
	<b>Basin Weighted</b>		<b>98</b>	<b>0.96</b>

10 YR HGL 405-CB TO 402-FES  
ELIZABETH SPRINGS PHASE 2 REVISION



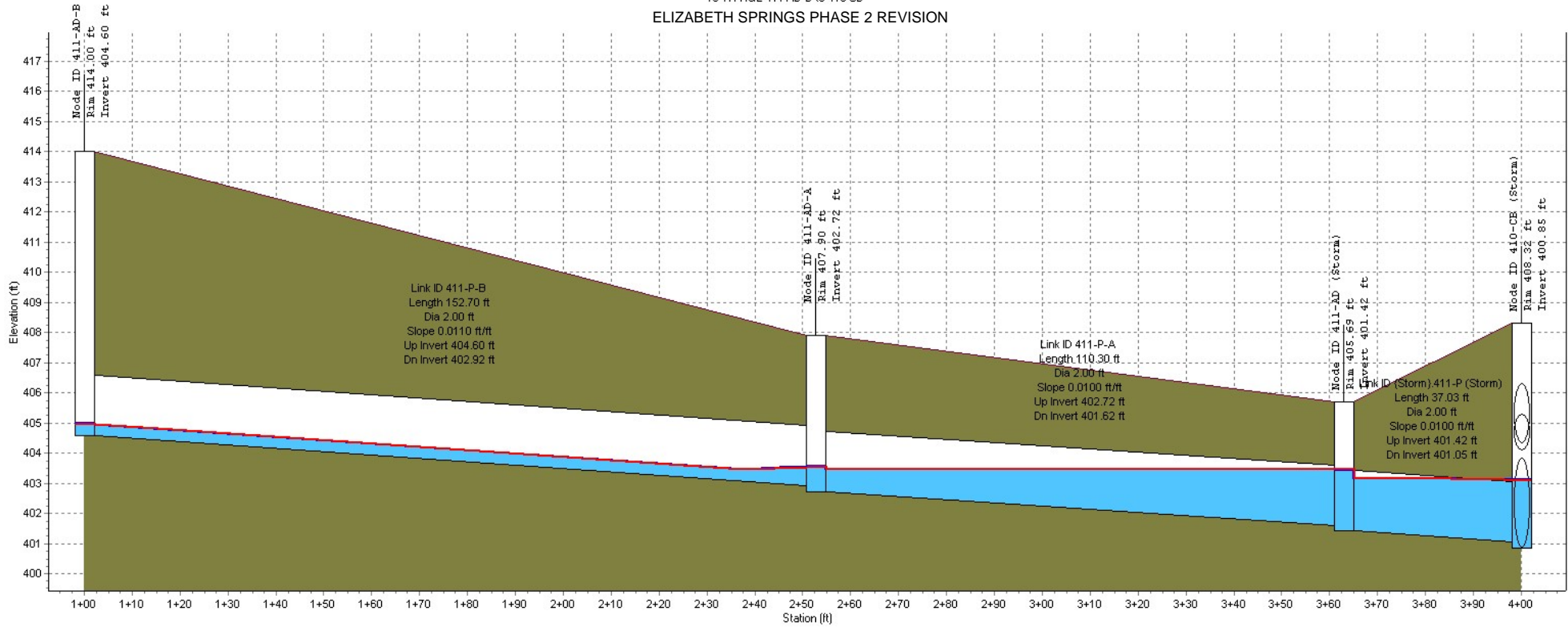
Node ID:	404-CB (Storm)		403-AD (Storm)		402-FES (Storm)
Rim (ft):	398.14	398.67	398.00		384.00
Invert (ft):	393.87	391.40	389.47		376.00
Min Pipe Cover (ft):			4.33		
Max HGL (ft):	394.18	394.13	390.97		379.95
Link ID:	{Storm} 405-P (Storm)	{Storm} 404-P (Storm)	{Storm} 403-P (Storm)		
Length (ft):	26.55	172.84	312.32		
Dia (ft):	1.25	4.00	4.00		
Slope (ft/ft):	0.0100	0.0100	0.0431		
Up Invert (ft):	393.87	391.40	389.47		
Dn Invert (ft):	393.60	389.67	376.00		
Max Q (cfs):	0.66	82.67	82.84		
Max Vel (ft/s):	2.98	10.08	13.92		
Max Depth (ft):	0.41	2.44	2.24		

10 YR HGL 410-CB TO 406-CB  
ELIZABETH SPRINGS PHASE 2 REVISION



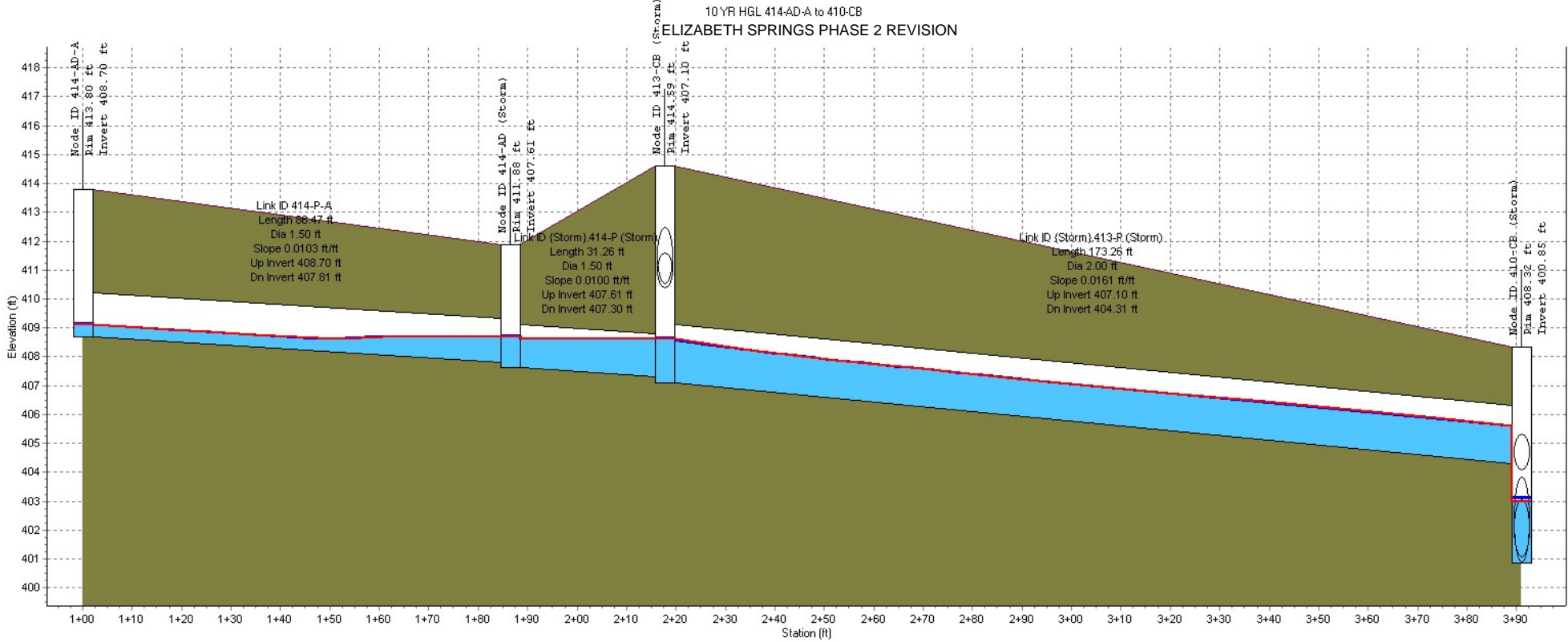
Node ID:		409-CB (Storm)	408-CB (Storm)	407-CB (Storm)	406-CB (Storm)
Rim (ft)	408.32	405.04	404.89	402.39	402.32
Invert (ft)	400.85	399.73	399.27	397.92	395.46
Min Pipe Cover (ft)					
Max HGL (ft)	403.11	402.14	401.30	400.26	398.20
Link ID:	(Storm) 410-P (Storm)	(Storm) 409-P (Storm)	(Storm) 408-P (Storm)	(Storm) 407-P (Storm)	
Length (ft)	91.99	26.00	41.95	26.00	
Dia (ft)	3.00	3.00	3.00	3.00	
Slope (ft/ft)	0.0100	0.0177	0.0274	0.0100	
Up Invert (ft)	400.85	399.73	399.27	397.92	
Dn Invert (ft)	399.93	399.27	398.12	397.66	
Max Q (cfs)	36.93	37.82	39.07	39.86	
Max Vel (ft/s)	6.57	6.62	7.31	7.85	
Max Depth (ft)	2.23	2.22	2.08	1.99	

10YR HGL 411-AD-B to 410-CB  
ELIZABETH SPRINGS PHASE 2 REVISION



	411-AD-B	411-AD-A	411-AD (Storm)	410-CB (Storm)
Node ID:	411-AD-B	411-AD-A	411-AD (Storm)	410-CB (Storm)
Rim (ft)	414.00	407.90	405.69	408.32
Invert (ft)	404.60	402.72	401.42	400.85
Min Pipe Cover (ft)				
Max HGL (ft)	404.96	403.54	403.46	403.11
Link ID:	411-P-B		411-P-A	(Storm) 411-P (Storm)
Length (ft)	152.70		110.30	37.03
Dia (ft)	2.00		2.00	2.00
Slope (ft/ft)	0.0110		0.0100	0.0100
Up Invert (ft)	404.60		402.72	401.42
Dn Invert (ft)	402.92		401.62	401.05
Max Q (cfs)	1.50		4.78	12.44
Max Vel (ft/s)	3.47		3.50	4.36
Max Depth (ft)	0.49		1.33	2.00

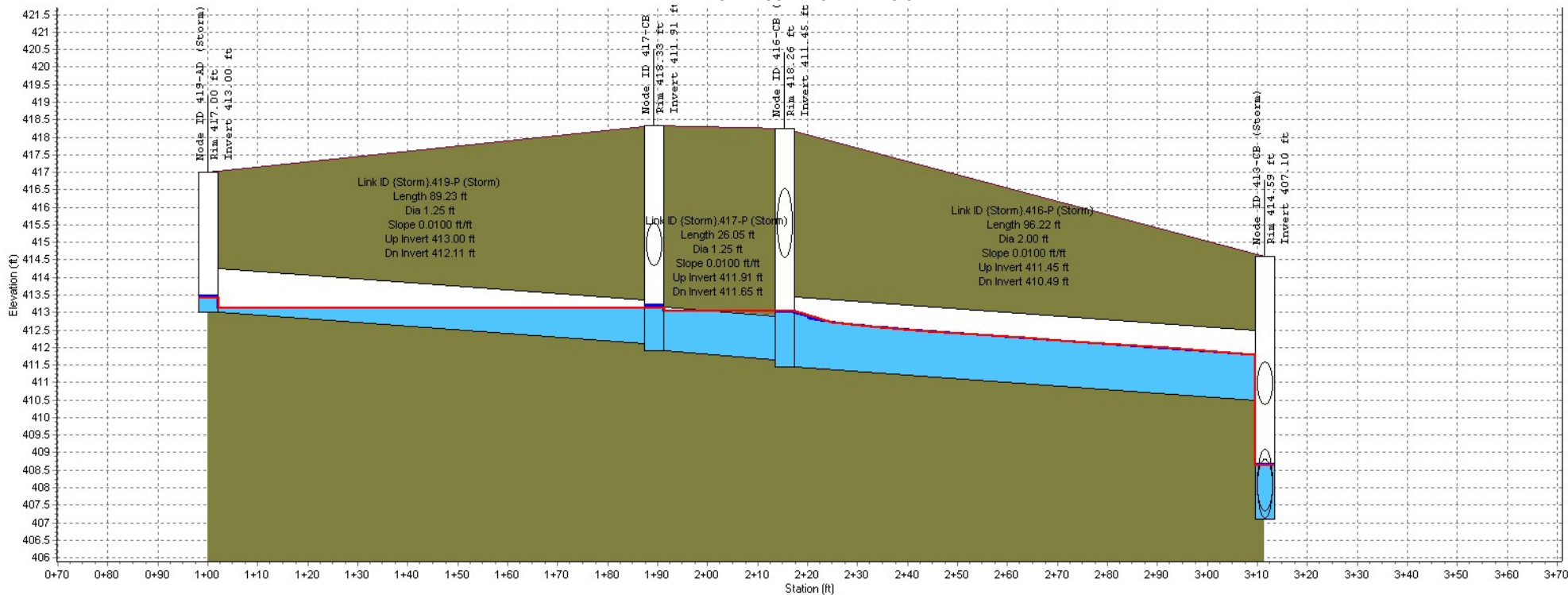
10 YR HGL 414-AD-A to 410-CB  
 ELIZABETH SPRINGS PHASE 2 REVISION



Node ID:	414-AD-A	414-AD (Storm)	413-CB (Storm)	410-CB (Storm)
Rim (ft):	413.80	411.88	414.59	408.32
Invert (ft):	408.70	407.61	407.10	400.85
Min Pipe Cover (ft):				
Max HGL (ft):	409.12	408.70	408.64	403.11
Link ID:	414-P-A	(Storm) 414-P (Storm)	(Storm) 413-P (Storm)	
Length (ft):	86.47	31.26	173.26	
Dia (ft):	1.50	1.50	2.00	
Slope (ft/ft):	0.0103	0.0100	0.0161	
Up Invert (ft):	408.70	407.61	407.10	
Dn Invert (ft):	407.81	407.30	404.31	
Max Q (cfs):	1.57	3.15	22.80	
Max Vel (ft/s):	3.26	2.32	9.05	
Max Depth (ft):	0.65	1.22	1.40	

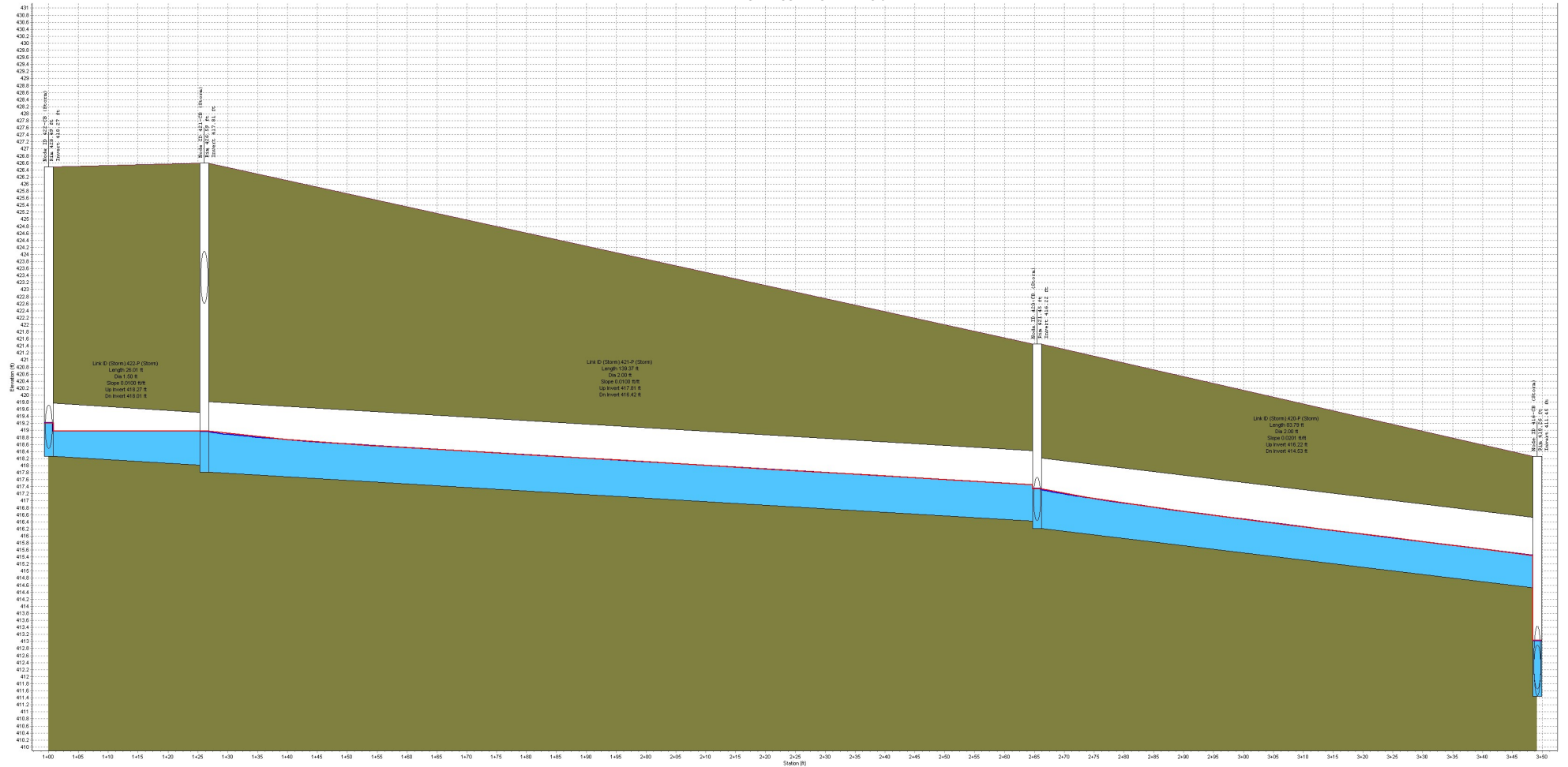


10 YR HGL (ft)  
 3-AD TO 413-CB  
 ELIZABETH SPRINGS PHASE 2 REVISION



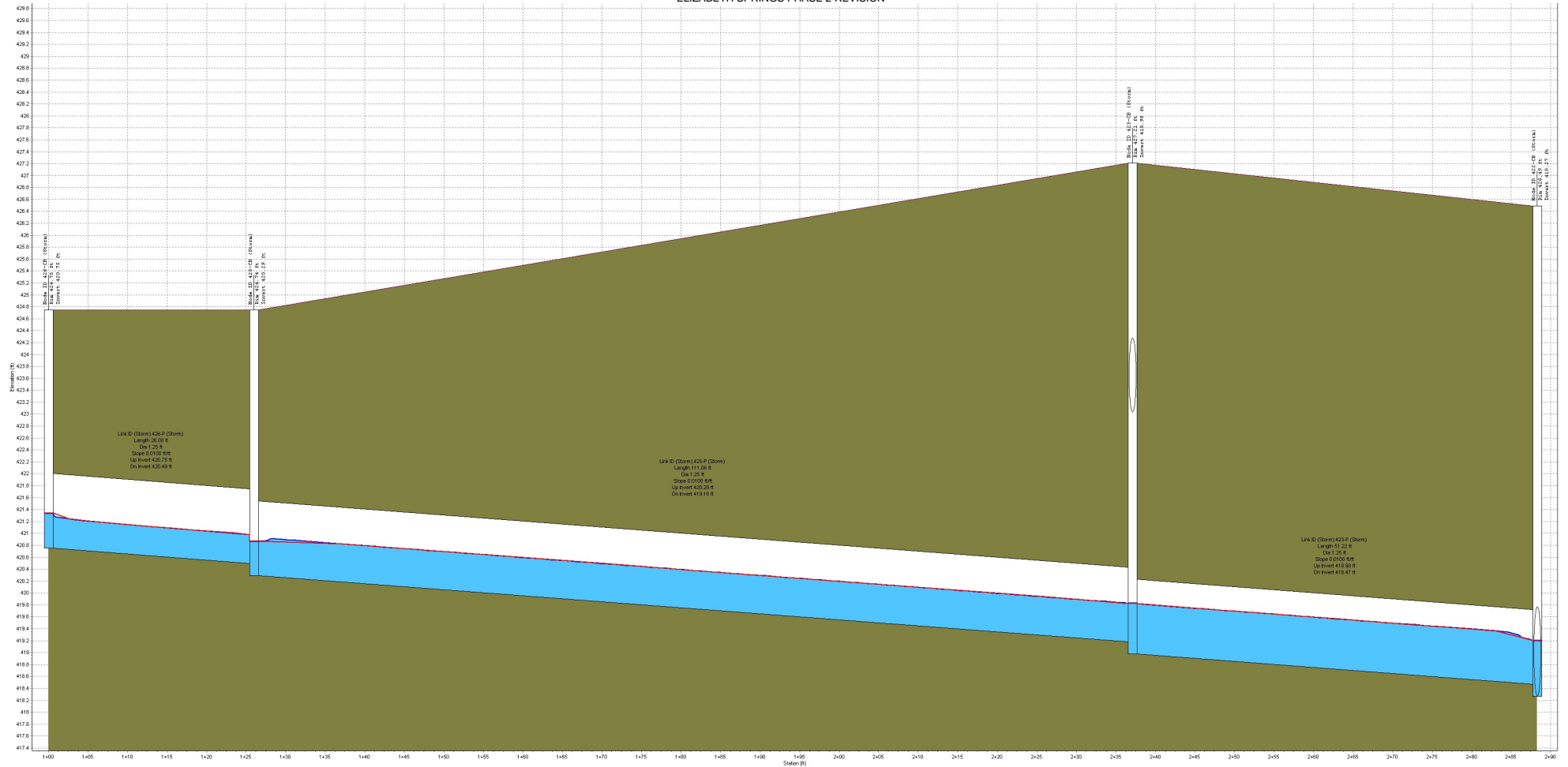
Node ID:	419-AD (Storm)	417-CB (Storm)	416-CB (Storm)	413-CB (Storm)
Rim (ft):	417.00	418.33	418.26	414.59
Invert (ft):	413.00	411.91	411.45	407.10
Min Pipe Cover (ft):				
Max HGL (ft):	413.45	413.19	413.03	408.64
Link ID:	{Storm}.419-P (Storm)	{Storm}.417-P (Storm)	{Storm}.416-P (Storm)	
Length (ft):	89.23	26.05	96.22	
Dia (ft):	1.25	1.25	2.00	
Slope (ft/ft):	0.0100	0.0100	0.0100	
Up Invert (ft):	413.00	411.91	411.45	
Dn Invert (ft):	412.11	411.65	410.49	
Max Q (cfs):	1.91	3.46	17.68	
Max Vel (ft/s):	3.10	3.99	6.96	
Max Depth (ft):	0.78	1.25	1.42	

10198.HGL.420.08 TO 416.08  
**ELIZABETH SPRINGS PHASE 2 REVISION**



Node ID	420.CB (Storm)		420.CB (Storm)		416.CB (Storm)
Run ID	426.49		421.46		419.26
Invert ID	416.27		416.22		411.45
Max Pipe Cover ID	419.21		417.34		413.03
Link ID	Storm 422.P (Storm)		Storm 421.P (Storm)		Storm 420.P (Storm)
Length ID	26.01		139.37		87.75
Dia ID	1.50		2.00		2.00
Slope ID	0.0000		0.0000		0.0000
Up Invert ID	416.37		417.81		416.22
Down Invert ID	416.01		416.42		414.53
Max ID (ft)	4.93		12.67		14.03
Max Wd (ft)	3.38		6.63		8.49
Max Depth ID	0.36		1.09		1.09

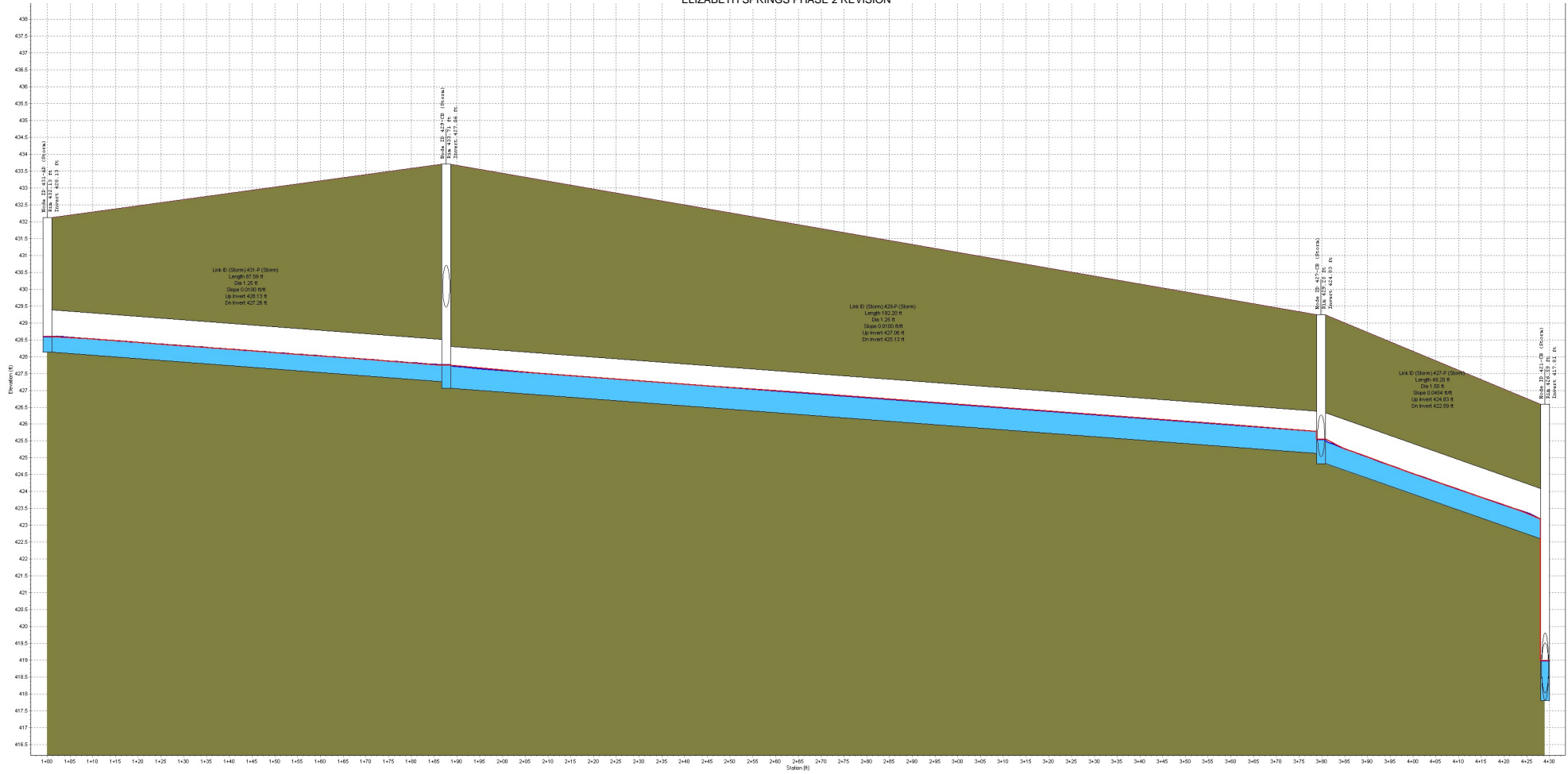
10 YR HGL 428 CB TO 422 CB  
 ELIZABETH SPRINGS PHASE 2 REVISION



	428 CB (Storm)		422 CB (Storm)	
Nadir (ft)	424.75	424.74	427.2	426.49
Invert (ft)	420.75	420.29	418.58	418.27
Max Pipe Cover (ft)				
Max HGL (ft)	421.34	420.87	419.69	419.21
Link ID	Storm 428P (Storm)		Storm 422P (Storm)	
Length (ft)	25.00	111.06	51.22	
Dia (ft)	1.25	1.25	1.25	
Slope (ft/ft)	0.0000	0.0000	0.0000	
Up Invert (ft)	420.75	420.29	418.58	
Down Invert (ft)	420.49	419.18	418.67	
Max (ft) (ft)	2.23	2.43	1.93	
Max (ft) (ft)	4.94	4.19	4.65	
Max Depth (ft)	0.53	0.61	0.73	

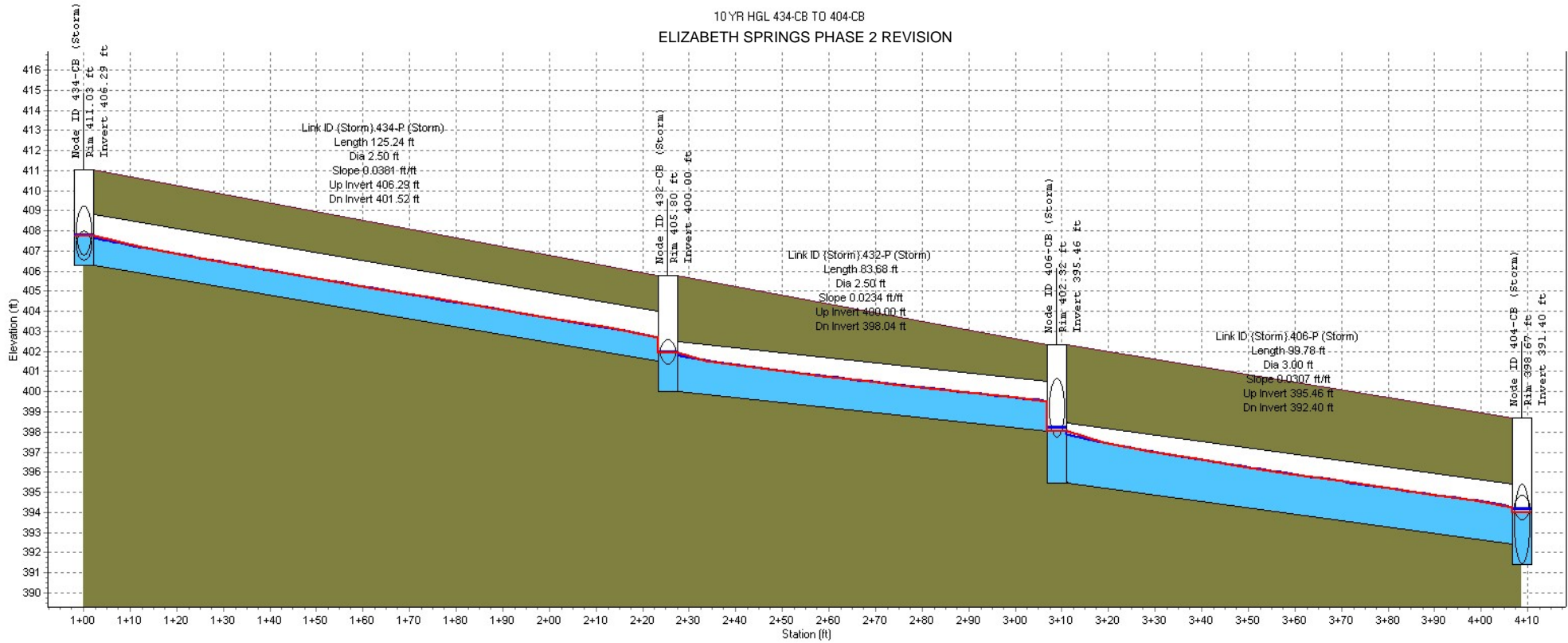


10 YR HGL 431.4D TO 421.0B  
**ELIZABETH SPRINGS PHASE 2 REVISION**



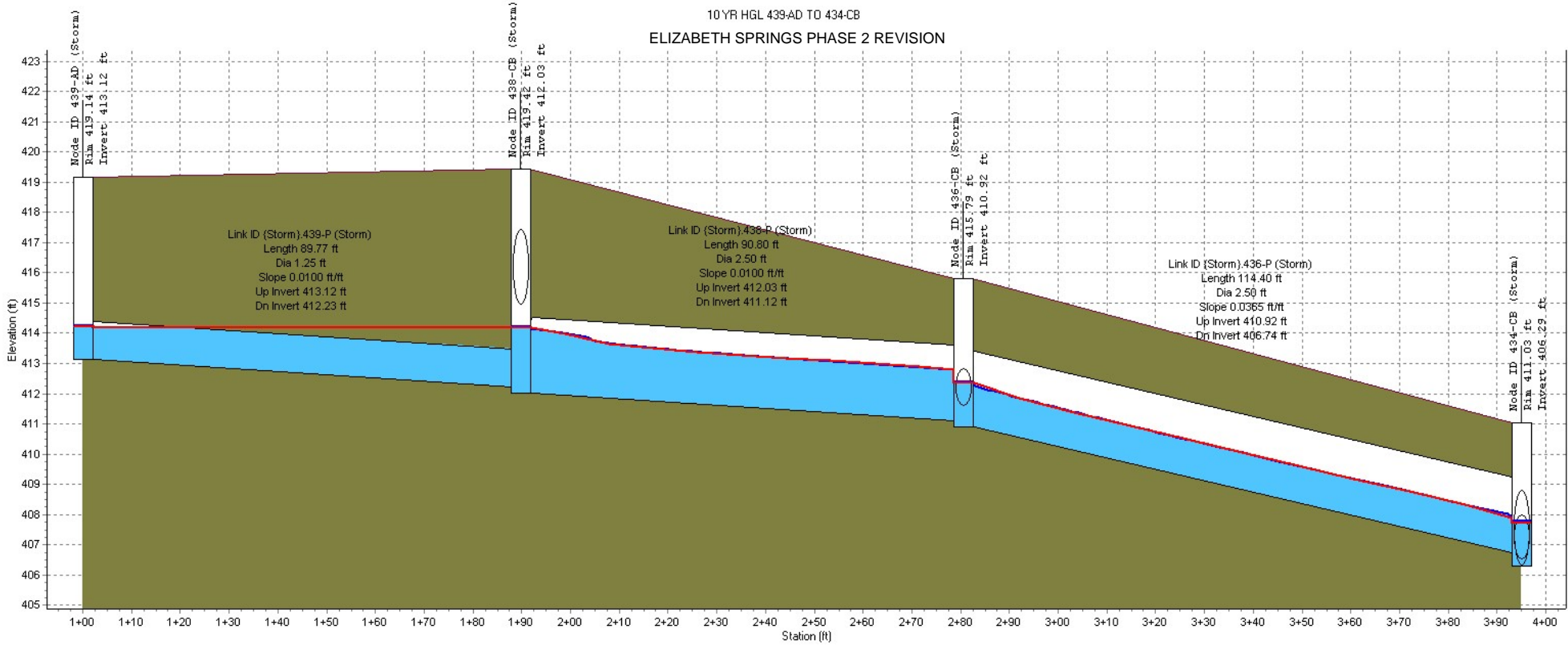
	431.5B (Storm)	427.5B (Storm)	421.5B (Storm)
Node ID	431.5B	427.5B	421.5B
Rim Ht	429.71	428.25	426.59
Invert Ht	427.06	424.83	417.81
Max Pipe Cover Ht			
Max HGL Ht	430.99	429.95	418.99
Link ID	(Storm) 431.5B (Storm)	(Storm) 427.5B (Storm)	(Storm) 421.5B (Storm)
Length Ht	17.50	132.00	42.00
Dia Ht	1.25	1.25	1.50
Slope Ht/ft	0.0100	0.0100	0.0454
Up Invert Ht	426.13	427.06	424.83
Dn Invert Ht	427.26	426.13	422.59
Max ID (ft)	1.92	1.65	2.02
Max Vd Ht/ft	3.89	5.11	3.54
Max Depth Ht	0.47	0.66	

10 YR HGL 434-CB TO 404-CB  
ELIZABETH SPRINGS PHASE 2 REVISION



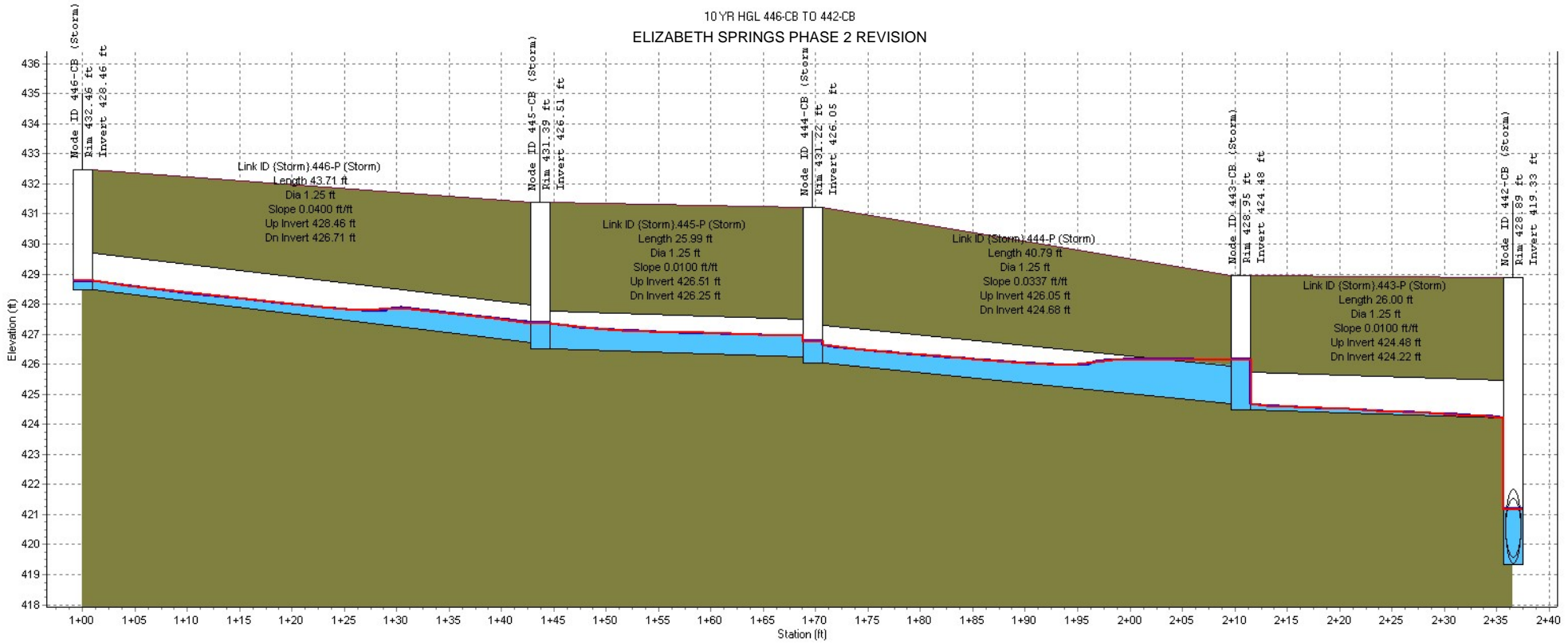
Node ID:		432-CB (Storm)		406-CB (Storm)		404-CB (Storm)
Rim (ft):	411.03	405.80		402.32		398.67
Invert (ft):	406.29	400.00		395.46		391.40
Min Pipe Cover (ft):						
Max HGL (ft):	407.76	401.96		398.20		394.13
Link ID:		{Storm} 434-P (Storm)		{Storm} 432-P (Storm)		{Storm} 406-P (Storm)
Length (ft):		125.24		83.68		99.78
Dia (ft):		2.50		2.50		3.00
Slope (ft/ft):		0.0381		0.0234		0.0307
Up Invert (ft):		406.29		400.00		395.46
Dn Invert (ft):		401.52		398.04		392.40
Max Q (cfs):		37.92		40.38		80.97
Max Vel (ft/s):		13.69		10.89		13.64
Max Depth (ft):		1.32		1.68		2.27

10 YR HGL 439-AD TO 434-CB  
 ELIZABETH SPRINGS PHASE 2 REVISION



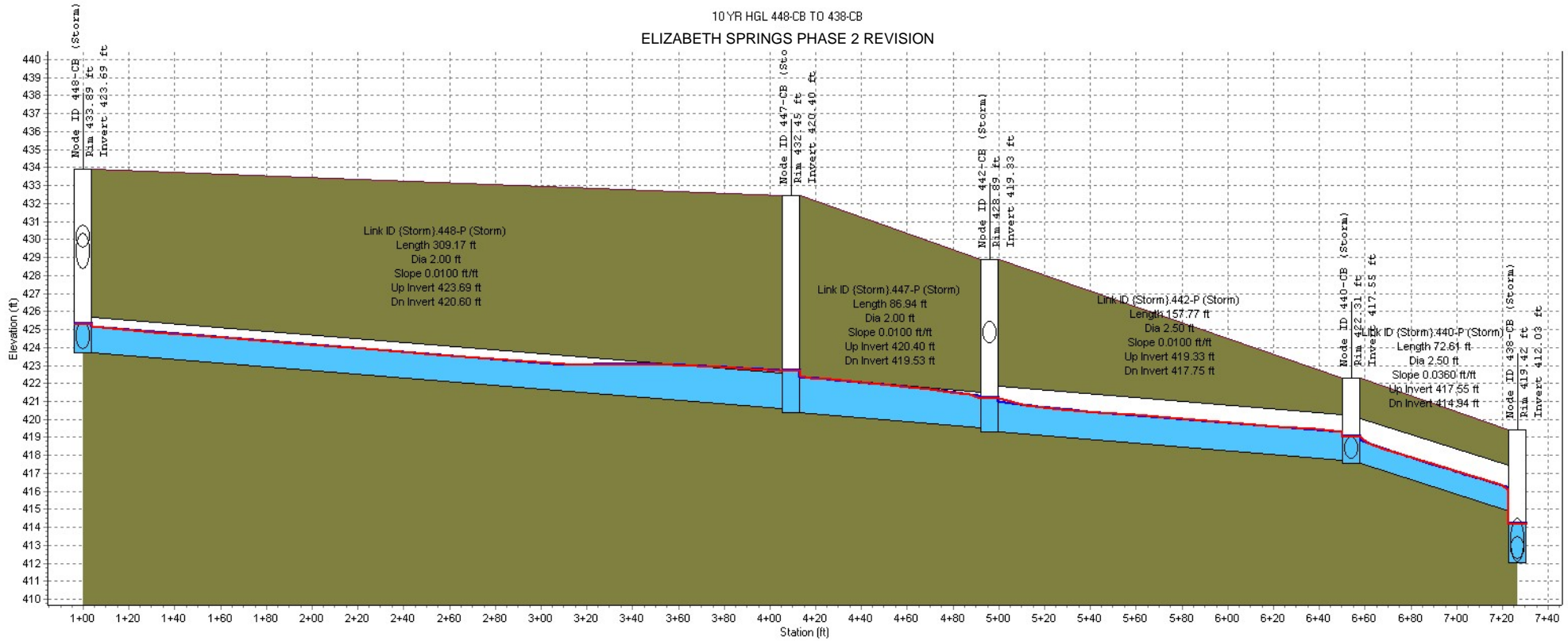
Node ID:		438-CB (Storm)		436-CB (Storm)		434-CB (Storm)
Rim (ft):		419.14		415.79		411.03
Invert (ft):		413.12		410.92		406.29
Min Pipe Cover (ft):						
Max HGL (ft):		414.23		412.37		407.76
Link ID:		(Storm) 439-P (Storm)		(Storm) 438-P (Storm)		(Storm) 436-P (Storm)
Length (ft):		89.77		90.80		114.40
Dia (ft):		1.25		2.50		2.50
Slope (ft/ft):		0.0100		0.0100		0.0365
Up Invert (ft):		413.12		412.03		410.92
Dn Invert (ft):		412.23		411.12		406.74
Max Q (cfs):		1.23		34.24		36.00
Max Vel (ft/s):		1.30		7.90		13.18
Max Depth (ft):		1.18		1.91		1.30

10 YR HGL 446-CB TO 442-CB  
ELIZABETH SPRINGS PHASE 2 REVISION



Node ID:		445-CB (Storm)		444-CB (Storm)		443-CB (Storm)		442-CB (Storm)
Rim (ft):	432.46	431.39		431.22		428.95		428.89
Invert (ft):	428.46	426.51		426.05		424.48		419.33
Min Pipe Cover (ft):								
Max HGL (ft):	428.77	427.36		426.75		426.14		421.17
Link ID:		{Storm}.446-P (Storm)		{Storm}.445-P (Storm)		{Storm}.444-P (Storm)		{Storm}.443-P (Storm)
Length (ft):		43.71		25.99		40.79		26.00
Dia (ft):		1.25		1.25		1.25		1.25
Slope (ft/ft):		0.0400		0.0100		0.0337		0.0100
Up Invert (ft):		428.46		426.51		426.05		424.48
Dn Invert (ft):		426.71		426.25		424.68		424.22
Max Q (cfs):		1.65		3.61		4.71		6.96
Max Vel (ft/s):		4.34		4.63		5.77		5.88
Max Depth (ft):		0.48		0.76		0.97		1.15

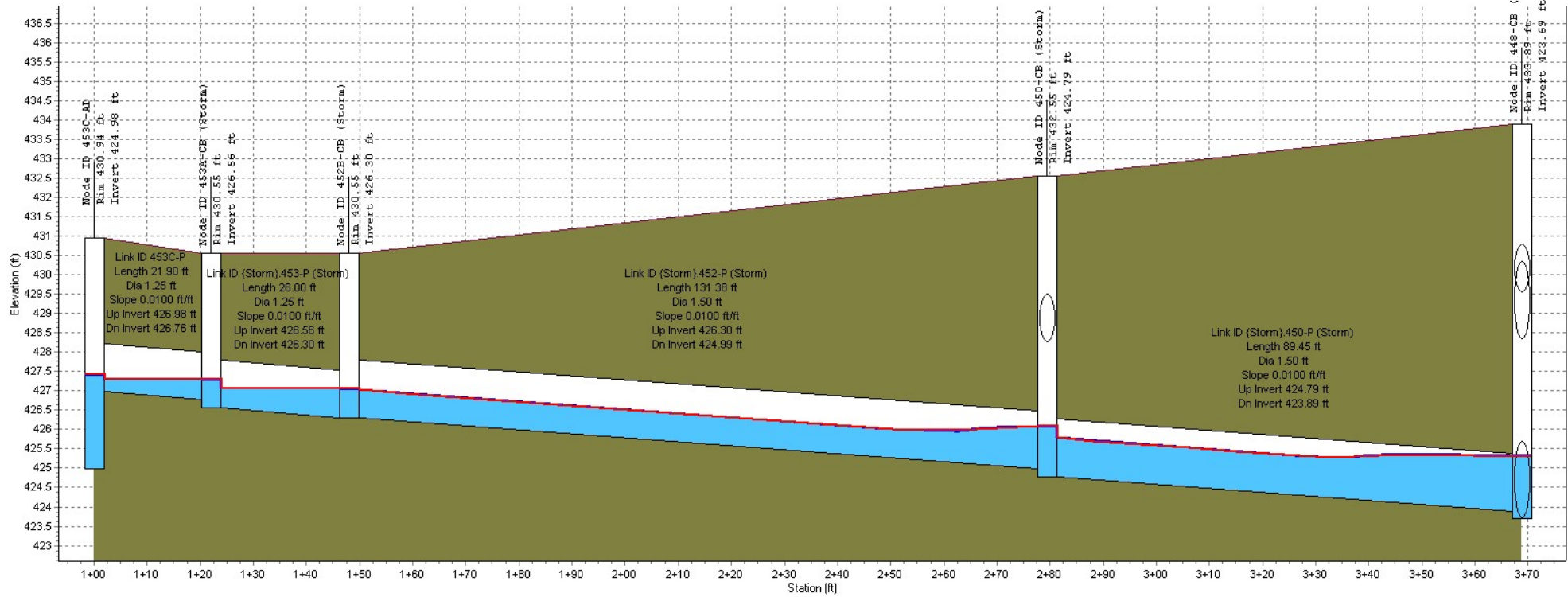
10 YR HGL 448-CB TO 438-CB  
ELIZABETH SPRINGS PHASE 2 REVISION



Node ID:		447-CB (Storm)	442-CB (Storm)	440-CB (Storm)	438-CB (Storm)
Rim (ft):	433.89	432.45	428.89	422.31	419.42
Invert (ft):	423.69	420.40	419.33	417.55	412.03
Min Pipe Cover (ft):					
Max HGL (ft):	425.31	422.69	421.17	419.04	414.19
Link ID:		{Storm} 448-P (Storm)	{Storm} 447-P (Storm)	{Storm} 442-P (Storm)	{Storm} 440-P (Storm)
Length (ft):		309.17	86.94	157.77	72.61
Dia (ft):		2.00	2.00	2.50	2.50
Slope (ft/ft):		0.0100	0.0100	0.0100	0.0360
Up Invert (ft):		423.69	420.40	419.33	417.55
Dn Invert (ft):		420.60	419.53	417.75	414.94
Max Q (cfs):		19.99	21.52	29.42	32.69
Max Vel (ft/s):		6.65	7.10	8.04	12.09
Max Depth (ft):		1.81	1.82	1.67	1.28

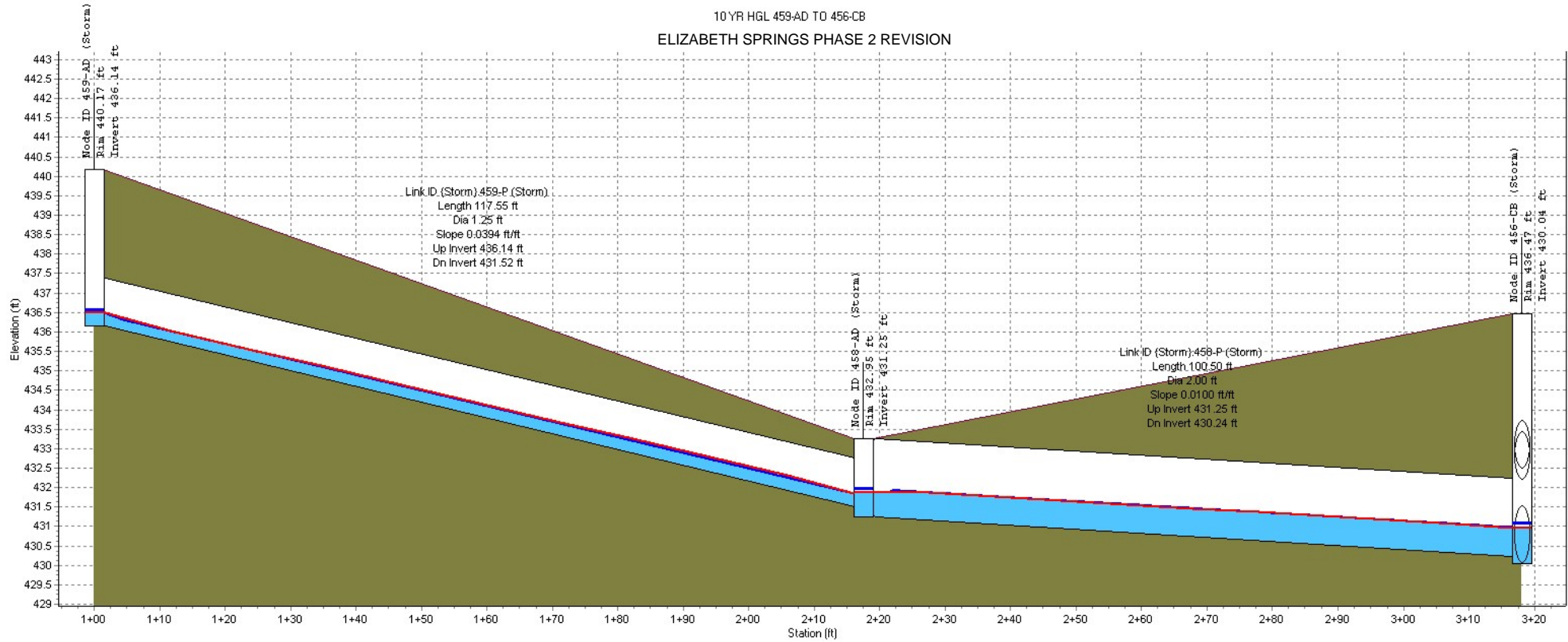


10 YR HGL453C-AD TO 448-CB  
 ELIZABETH SPRINGS PHASE 2 REVISION



Node ID:	453C-AD	453A-CB (Storm)	452B-CB (Storm)	450-CB (Storm)	448-CB (Storm)
Rim (ft):	430.94	430.55	430.55	432.55	433.89
Invert (ft):	424.98	426.56	426.30	424.79	423.69
Min Pipe Cover (ft):					
Max HGL (ft):	427.42	427.29	427.06	426.08	425.31
Link ID:	453C-P	{Storm}.453-P (Storm)	{Storm}.452-P (Storm)	{Storm}.450-P (Storm)	
Length (ft):	21.90	26.00	131.38	89.45	
Dia (ft):	1.25	1.25	1.50	1.50	
Slope (ft/ft):	0.0100	0.0100	0.0100	0.0100	
Up Invert (ft):	426.98	426.56	426.30	424.79	
Dn Invert (ft):	426.76	426.30	424.99	423.89	
Max Q (cfs):	1.01	2.45	5.06	8.07	
Max Vel (ft/s):	2.64	3.27	4.36	4.73	
Max Depth (ft):	0.49	0.75	0.93	1.36	

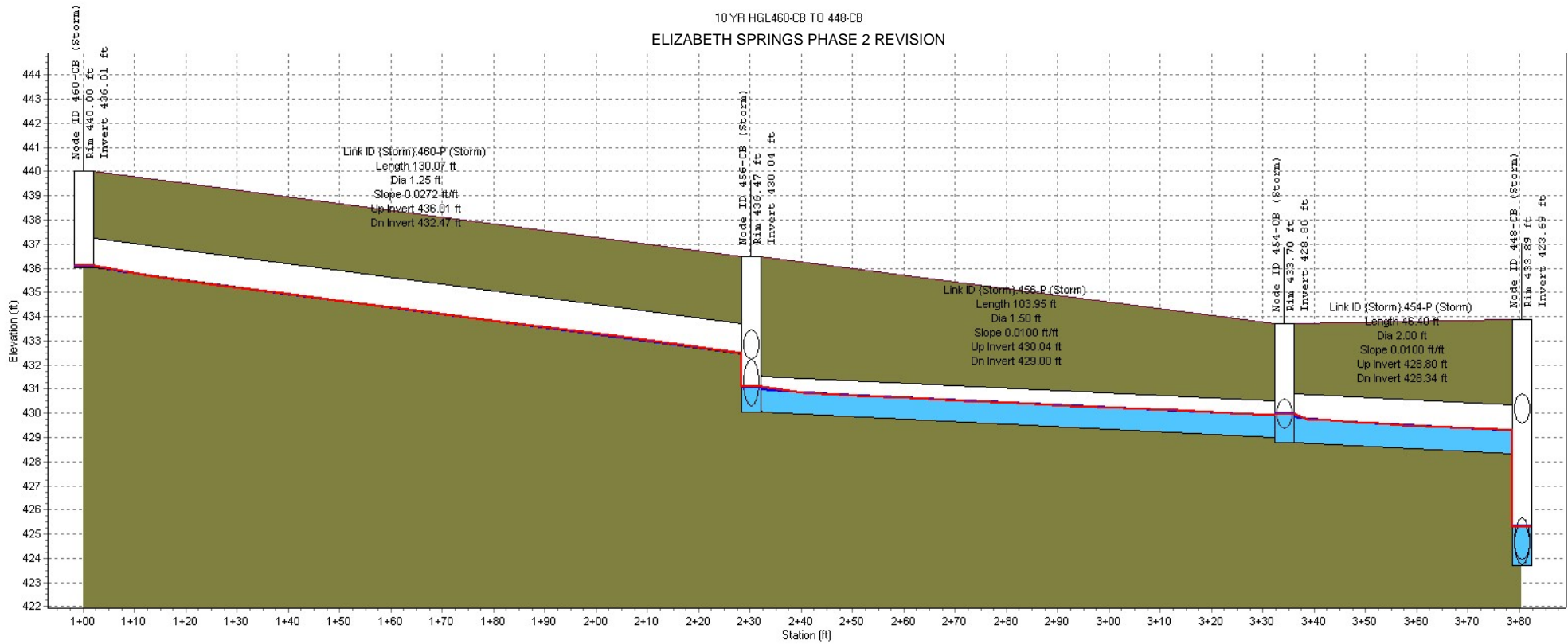
10 YR HGL 459-AD TO 456-CB  
 ELIZABETH SPRINGS PHASE 2 REVISION



Node ID:		459-AD (Storm)	458-AD (Storm)	456-CB (Storm)
Rim (ft):	440.17		432.95	436.47
Invert (ft):	436.14		431.25	430.04
Min Pipe Cover (ft):				
Max HGL (ft):	436.55		431.96	431.08
Link ID:		(Storm) 459-P (Storm)	(Storm) 458-P (Storm)	
Length (ft):		117.55	100.50	
Dia (ft):		1.25	2.00	
Slope (ft/ft):		0.0394	0.0100	
Up Invert (ft):		436.14	431.25	
Dn Invert (ft):		431.52	430.24	
Max Q (cfs):		2.67	4.95	
Max Vel (ft/s):		7.28	4.29	
Max Depth (ft):		0.42	0.78	

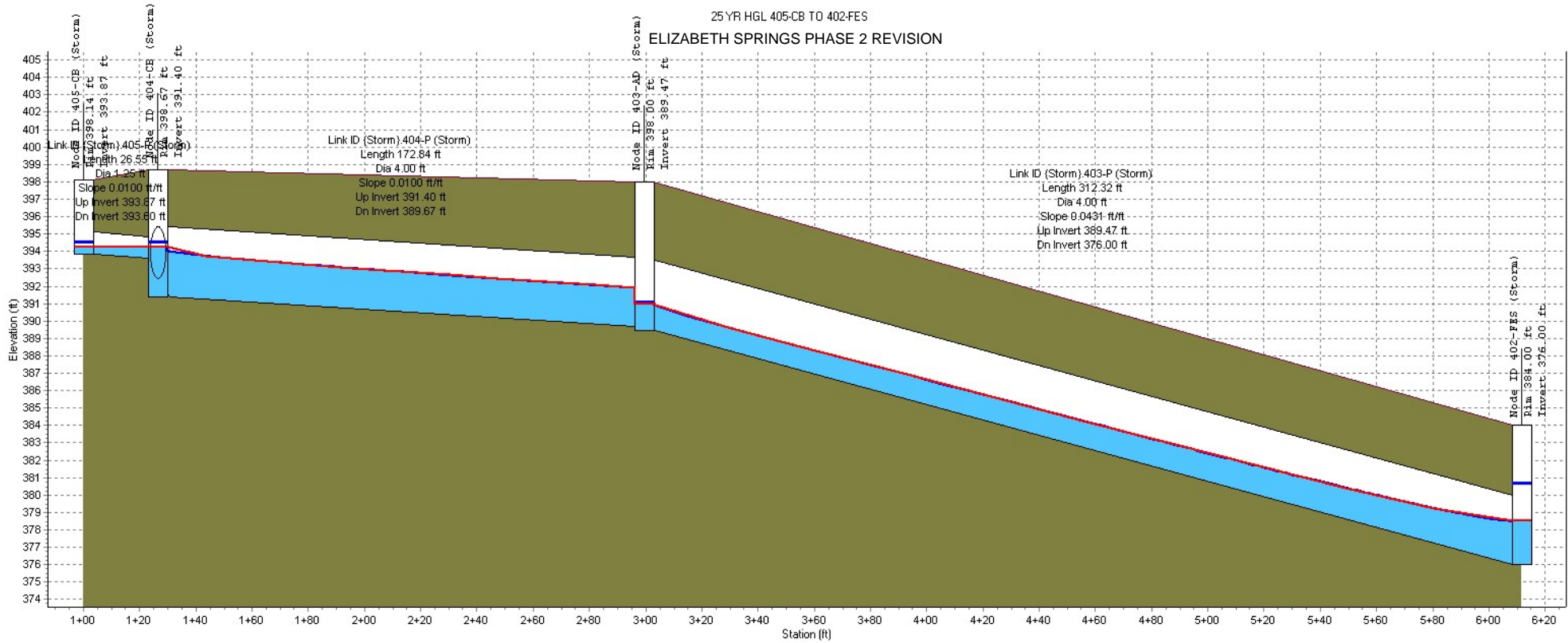


10 YR HGL460-CB TO 448-CB  
ELIZABETH SPRINGS PHASE 2 REVISION



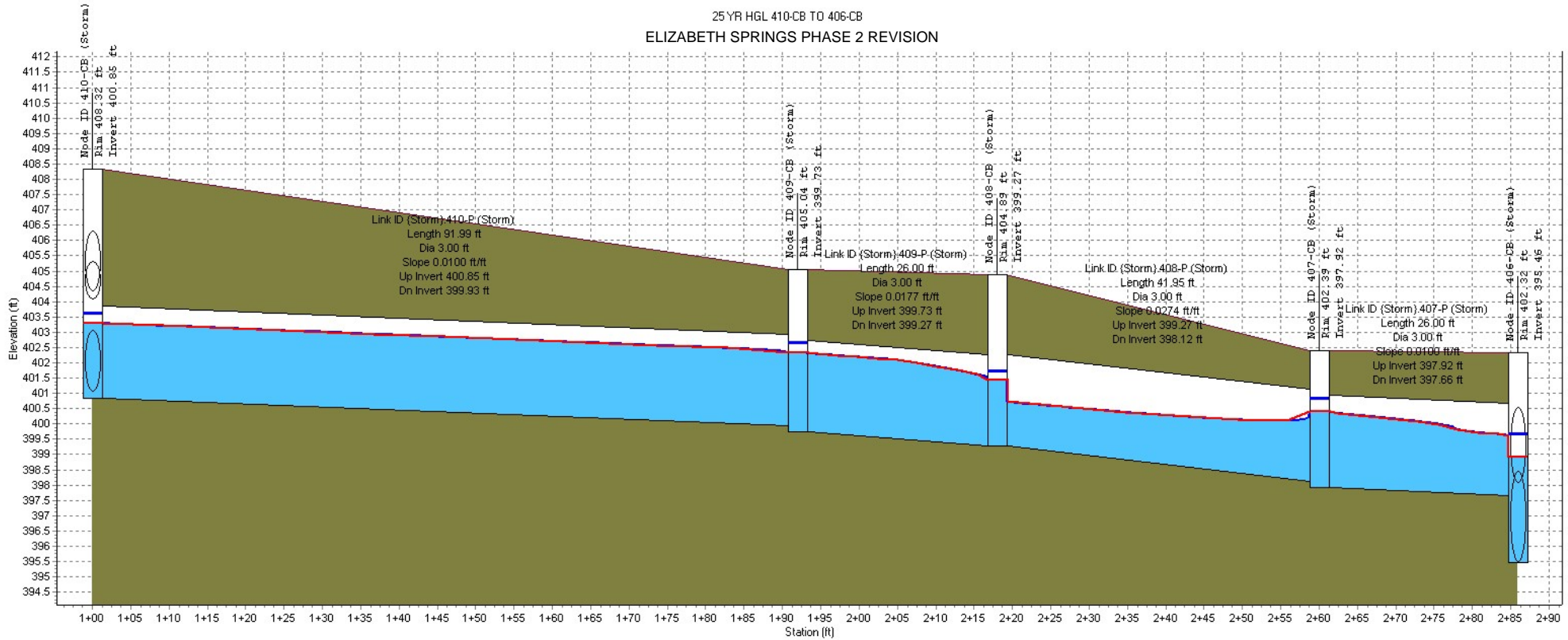
Node ID:		456-CB (Storm)		454-CB (Storm)	448-CB (Storm)
Rim (ft):	440.00	436.47		433.70	433.89
Invert (ft):	436.01	430.04		428.80	423.69
Min Pipe Cover (ft):					
Max HGL (ft):	436.09	431.08		429.96	425.31
Link ID:	{Storm} 460-P (Storm)		{Storm} 456-P (Storm)		{Storm} 454-P (Storm)
Length (ft):	130.07		103.95		46.40
Dia (ft):	1.25		1.50		2.00
Slope (ft/ft):	0.0272		0.0100		0.0100
Up Invert (ft):	436.01		430.04		428.80
Dn Invert (ft):	432.47		429.00		428.34
Max Q (cfs):	0.09		7.05		9.91
Max Vel (ft/s):	2.65		5.49		5.90
Max Depth (ft):	0.08		1.00		1.04

25 YR HGL 405-CB TO 402-FES  
ELIZABETH SPRINGS PHASE 2 REVISION



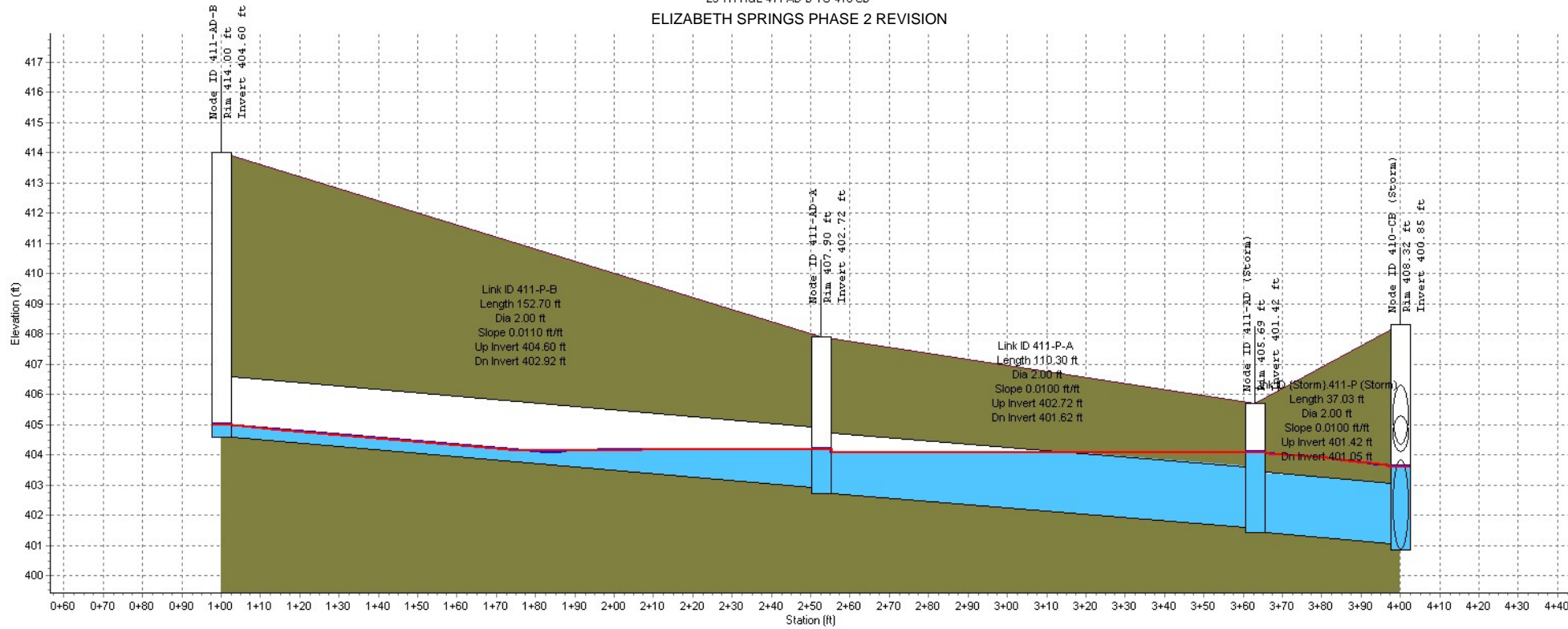
Node ID:	404-CB (Storm)		403-AD (Storm)		402-FES (Storm)
Rim (ft):	398.14	398.67	398.00		384.00
Invert (ft):	393.87	391.40	389.47		376.00
Min Pipe Cover (ft):			4.33		
Max HGL (ft):	394.48	394.48	391.07		380.64
Link ID:	{Storm} 405-P (Storm)	{Storm} 404-P (Storm)		{Storm} 403-P (Storm)	
Length (ft):	26.55	172.84		312.32	
Dia (ft):	1.25	4.00		4.00	
Slope (ft/ft):	0.0100	0.0100		0.0431	
Up Invert (ft):	393.87	391.40		389.47	
Dn Invert (ft):	393.60	389.67		376.00	
Max Q (cfs):	0.78	94.79		94.92	
Max Vel (ft/s):	2.98	10.35		13.26	
Max Depth (ft):	0.74	2.72		2.63	

25 YR HGL 410-CB TO 406-CB  
ELIZABETH SPRINGS PHASE 2 REVISION



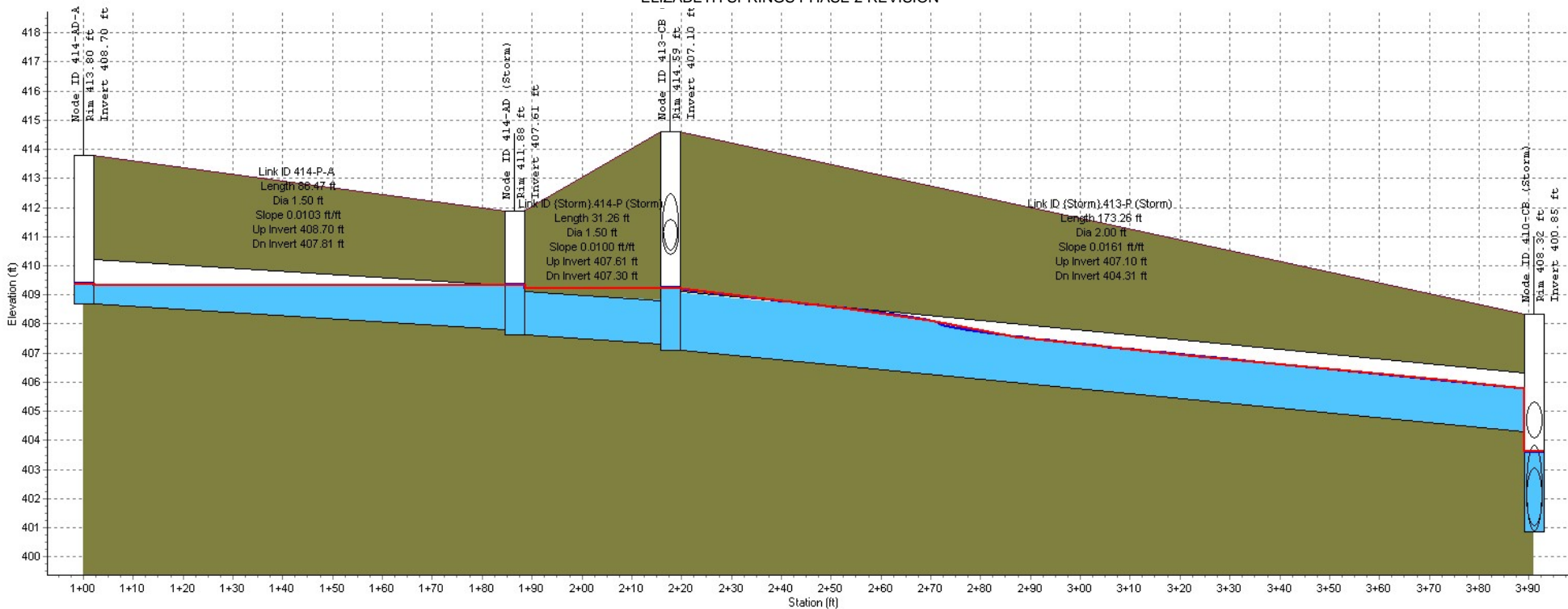
		409-CB (Storm)	408-CB (Storm)	407-CB (Storm)	406-CB (Storm)
Node ID:					
Rim (ft)	408.32	405.04	404.89	402.39	402.32
Invert (ft)	400.85	399.73	399.27	397.92	395.46
Min Pipe Cover (ft)					
Max HGL (ft)	403.61	402.63	401.72	400.83	399.64
Link ID:	(Storm) 410-P (Storm)	(Storm) 409-P (Storm)	(Storm) 408-P (Storm)	(Storm) 407-P (Storm)	
Length (ft)	91.99	26.00	41.95	26.00	
Dia (ft)	3.00	3.00	3.00	3.00	
Slope (ft/ft)	0.0100	0.0177	0.0274	0.0100	
Up Invert (ft)	400.85	399.73	399.27	397.92	
Dn Invert (ft)	399.93	399.27	398.12	397.66	
Max Q (cfs)	42.99	44.01	45.40	46.53	
Max Vel (ft/s)	6.59	6.75	7.42	8.08	
Max Depth (ft)	2.73	2.67	2.58	2.44	

25 YR HGL 411-AD-B TO 410-CB  
ELIZABETH SPRINGS PHASE 2 REVISION



	411-AD-B	411-AD-A	411-AD (Storm)	410-CB (Storm)
Node ID:	411-AD-B	411-AD-A	411-AD (Storm)	410-CB (Storm)
Rim (ft):	414.00	407.90	405.69	408.32
Invert (ft):	404.60	402.72	401.42	400.85
Min Pipe Cover (ft):				
Max HGL (ft):	404.99	404.19	404.09	403.61
Link ID:	411-P-B		411-P-A	{Storm} 411-P (Storm)
Length (ft):	152.70		110.30	37.03
Dia (ft):	2.00		2.00	2.00
Slope (ft/ft):	0.0110		0.0100	0.0100
Up Invert (ft):	404.60		402.72	401.42
Dn Invert (ft):	402.92		401.62	401.05
Max Q (cfs):	1.70		6.19	14.77
Max Vel (ft/s):	3.52		3.46	4.70
Max Depth (ft):	0.83		1.74	2.00

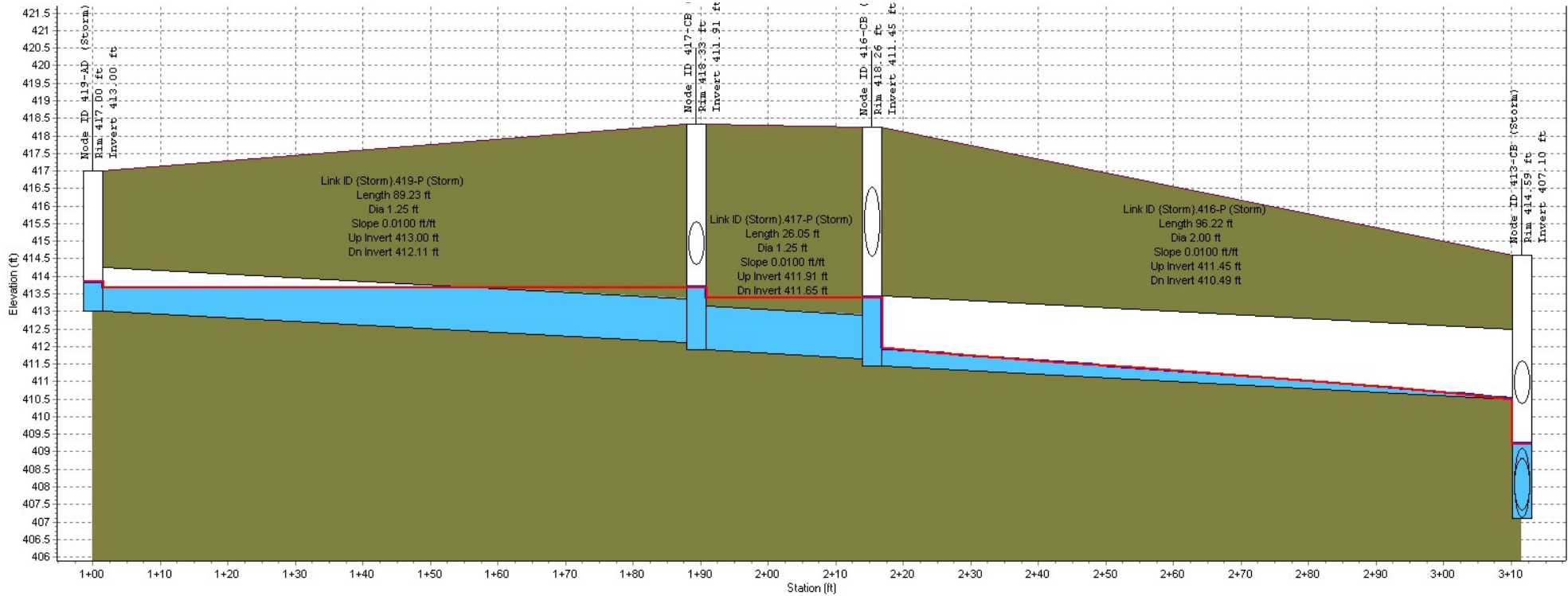
25 YR HGL 414-AD-A TO 410-CB  
 ELIZABETH SPRINGS PHASE 2 REVISION



Node ID:	414-AD-A	414-AD (Storm)	413-CB (Storm)	410-CB (Storm)
Rim (ft):	413.80	411.88	414.59	408.32
Invert (ft):	408.70	407.61	407.10	400.85
Min Pipe Cover (ft):				
Max HGL (ft):	409.36	409.32	409.23	403.61
Link ID:	414-P-A	(Storm) 414-P (Storm)	(Storm) 413-P (Storm)	
Length (ft):	86.47	31.26	173.26	
Dia (ft):	1.50	1.50	2.00	
Slope (ft/ft):	0.0103	0.0100	0.0161	
Up Invert (ft):	408.70	407.61	407.10	
Dn Invert (ft):	407.81	407.30	404.31	
Max Q (cfs):	1.77	3.75	25.81	
Max Vel (ft/s):	3.27	2.32	9.18	
Max Depth (ft):	1.08	1.50	1.73	



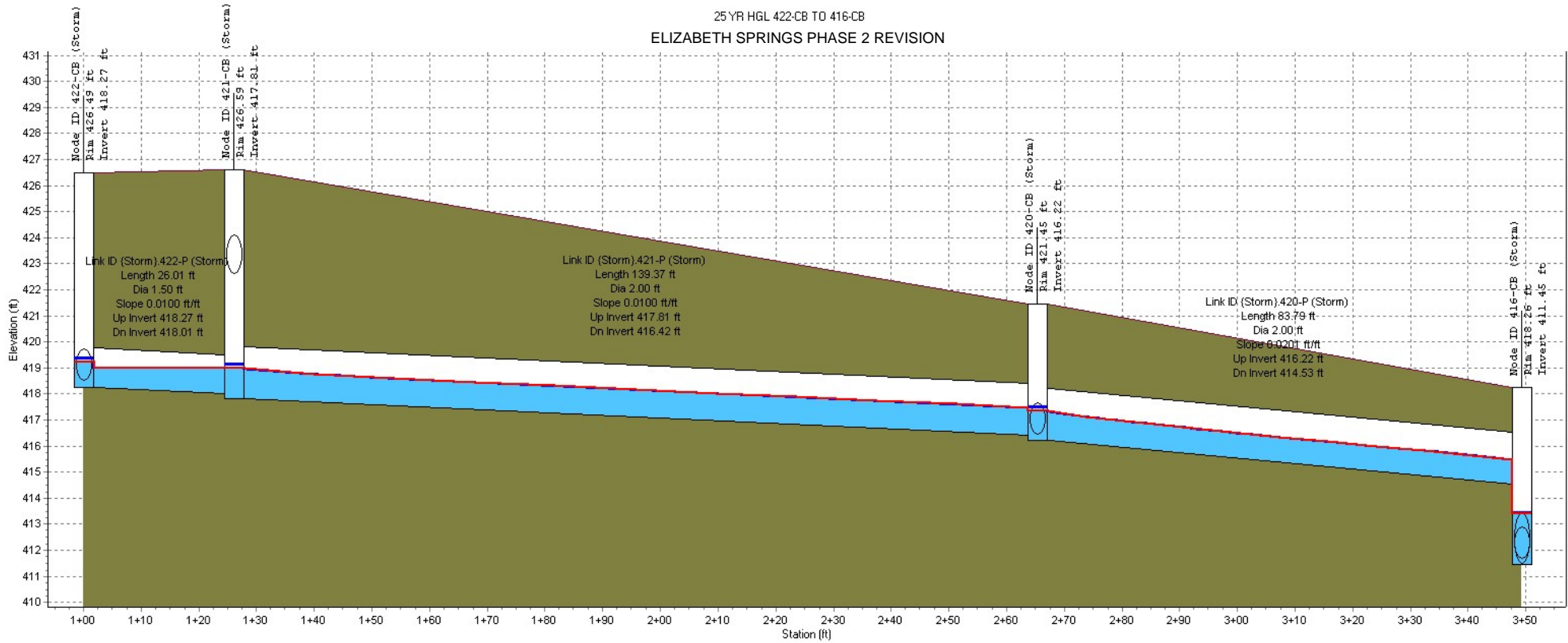
25 YR HGL 419-AD TO 413-CB  
 ELIZABETH SPRINGS PHASE 2 REVISION



Node ID:		417-CB (Storm)	416-CB (Storm)	413-CB (Storm)
Rim (ft):	417.00	418.33	418.26	414.59
Invert (ft):	413.00	411.91	411.45	407.10
Min Pipe Cover (ft):				
Max HGL (ft):	413.84	413.69	413.40	409.23
Link ID:	{Storm}.419-P (Storm)	{Storm}.417-P (Storm)	{Storm}.416-P (Storm)	
Length (ft):	89.23	26.05	96.22	
Dia (ft):	1.25	1.25	2.00	
Slope (ft/ft):	0.0100	0.0100	0.0100	
Up Invert (ft):	413.00	411.91	411.45	
Dn Invert (ft):	412.11	411.65	410.49	
Max Q (cfs):	2.41	4.31	20.48	
Max Vel (ft/s):	3.08	4.03	7.04	
Max Depth (ft):	1.05	1.25	1.69	

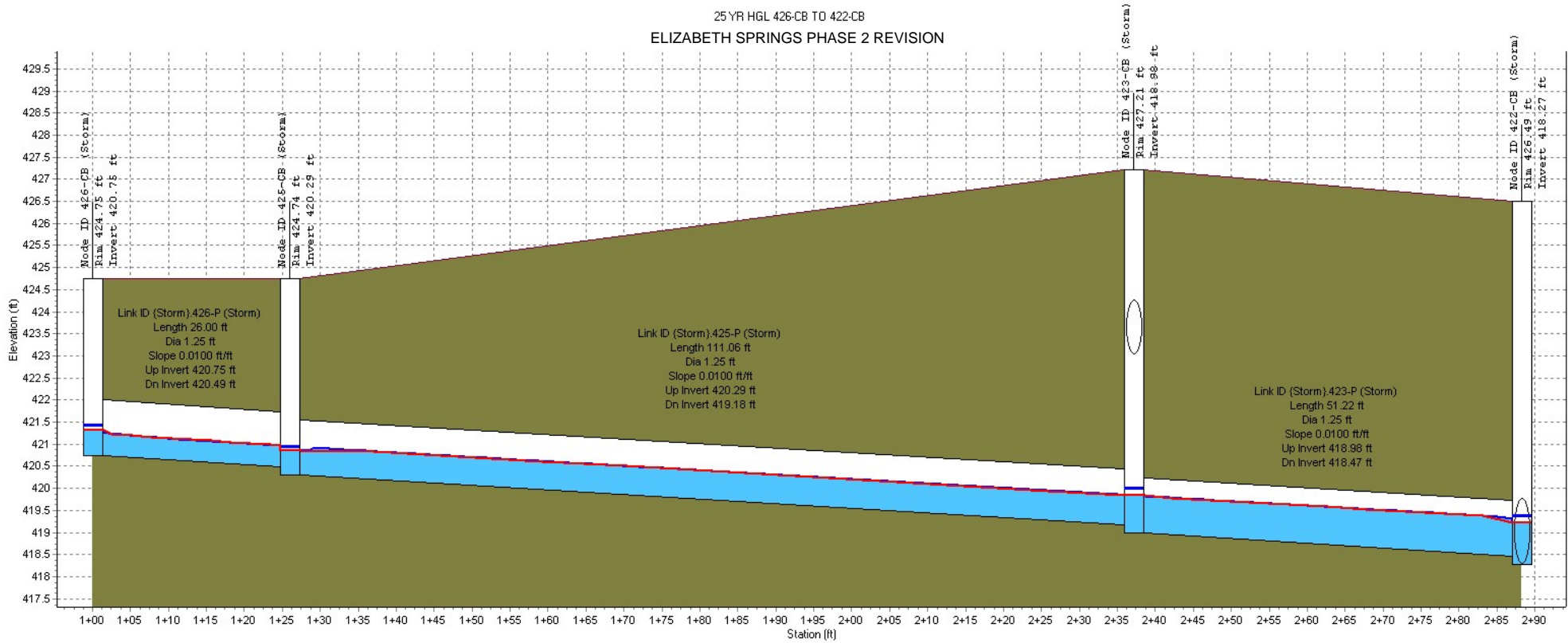


25 YR HGL 422-CB TO 416-CB  
ELIZABETH SPRINGS PHASE 2 REVISION



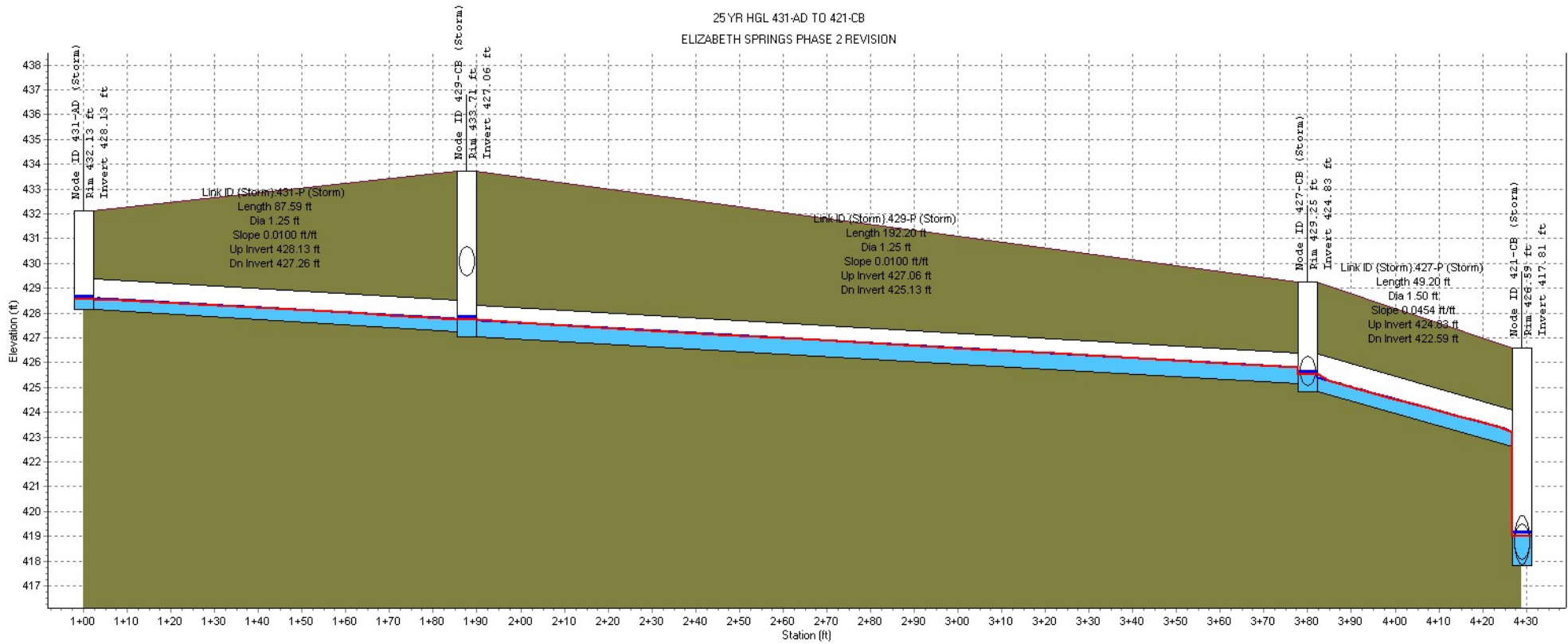
Node ID:	421-CB (Storm)		420-CB (Storm)		416-CB (Storm)
Rim (ft):	426.49	426.59	421.45		418.26
Invert (ft):	418.27	417.81	416.22		411.45
Min Pipe Cover (ft):					
Max HGL (ft):	419.36	419.12	417.47		413.40
Link ID:	{Storm} 422-P (Storm)	{Storm} 421-P (Storm)		{Storm} 420-P (Storm)	
Length (ft):	26.01	139.37		83.79	
Dia (ft):	1.50	2.00		2.00	
Slope (ft/ft):	0.0100	0.0100		0.0201	
Up Invert (ft):	418.27	417.81		416.22	
Dn Invert (ft):	418.01	416.42		414.53	
Max Q (cfs):	4.94	14.07		16.43	
Max Vel (ft/s):	3.42	6.84		8.76	
Max Depth (ft):	1.10	1.21		1.12	

25 YR HGL 426-CB TO 422-CB  
ELIZABETH SPRINGS PHASE 2 REVISION



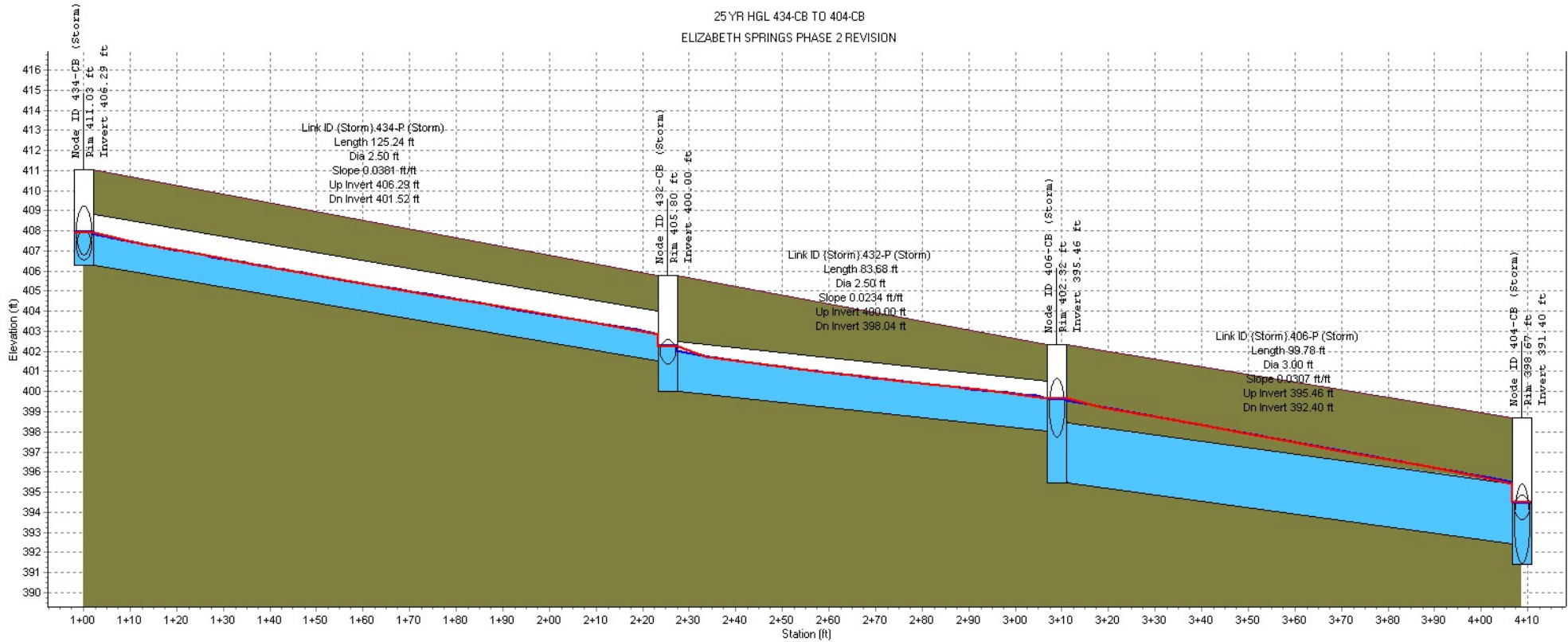
	426-CB (Storm)	425-CB (Storm)	423-CB (Storm)	422-CB (Storm)
Node ID:		425-CB (Storm)		422-CB (Storm)
Rim (ft):	424.75	424.74	427.21	426.49
Invert (ft):	420.75	420.29	418.98	418.27
Min Pipe Cover (ft):				
Max HGL (ft):	421.42	420.94	419.99	419.36
Link ID:	{Storm}.426-P (Storm)	{Storm}.425-P (Storm)	{Storm}.423-P (Storm)	
Length (ft):	26.00	111.06	51.22	
Dia (ft):	1.25	1.25	1.25	
Slope (ft/ft):	0.0100	0.0100	0.0100	
Up Invert (ft):	420.75	420.29	418.98	
Dn Invert (ft):	420.49	419.18	418.47	
Max Q (cfs):	2.48	3.03	4.74	
Max Vel (ft/s):	4.24	4.12	4.65	
Max Depth (ft):	0.60	0.73	0.95	

25 YR HGL 431-AD TO 421-CB  
ELIZABETH SPRINGS PHASE 2 REVISION



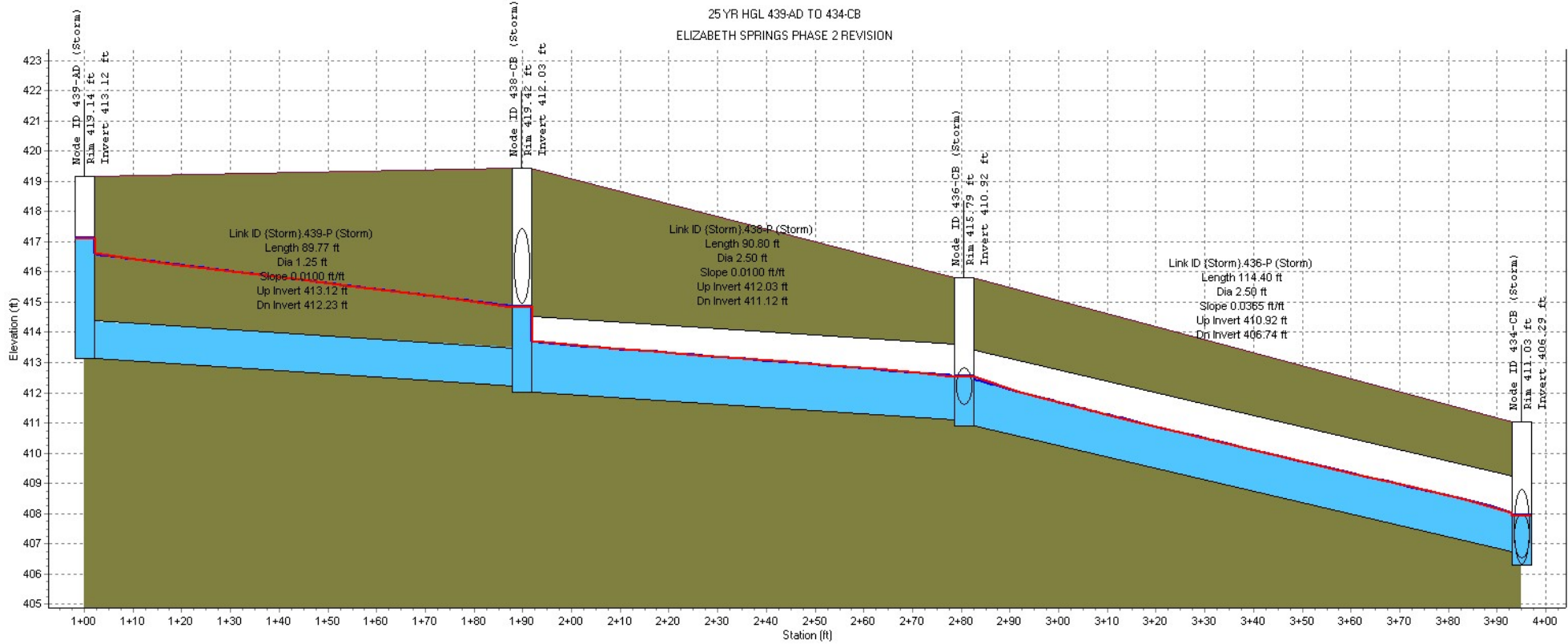
Node ID:		429-CB (Storm)		427-CB (Storm)	421-CB (Storm)
Rim (ft):		433.71		429.25	426.59
Invert (ft):		427.06		424.83	417.81
Min Pipe Cover (ft):					
Max HGL (ft):	428.63	427.81		425.62	419.12
Link ID:	(Storm):431-P (Storm)		(Storm):429-P (Storm)		(Storm):427-P (Storm)
Length (ft):	87.59		192.20		49.20
Dia (ft):	1.25		1.25		1.50
Slope (ft/ft):	0.0100		0.0100		0.0454
Up Invert (ft):	428.13		427.06		424.83
Dn Invert (ft):	427.26		425.13		422.59
Max Q (cfs):	1.85		3.96		8.10
Max Vel (ft/s):	3.72		5.26		9.79
Max Depth (ft):	0.53		0.72		0.71

25 YR HGL 434-CB TO 404-CB  
ELIZABETH SPRINGS PHASE 2 REVISION



	Node ID: 434-CB (Storm)	Node ID: 432-CB (Storm)	Node ID: 406-CB (Storm)	Node ID: 404-CB (Storm)
Node ID:	434-CB (Storm)	432-CB (Storm)	406-CB (Storm)	404-CB (Storm)
Rim (ft):	411.03	405.80	402.32	398.67
Invert (ft):	406.29	400.00	395.46	391.40
Min Pipe Cover (ft):				
Max HGL (ft):	407.93	402.25	399.64	394.48
Link ID:	{Storm} 434-P (Storm)	{Storm} 432-P (Storm)	{Storm} 406-P (Storm)	
Length (ft):	125.24	83.68	99.78	
Dia (ft):	2.50	2.50	3.00	
Slope (ft/ft):	0.0381	0.0234	0.0307	
Up Invert (ft):	406.29	400.00	395.46	
Dn Invert (ft):	401.52	398.04	392.40	
Max Q (cfs):	43.14	45.98	92.82	
Max Vel (ft/s):	13.99	10.98	14.49	
Max Depth (ft):	1.45	1.92	2.54	

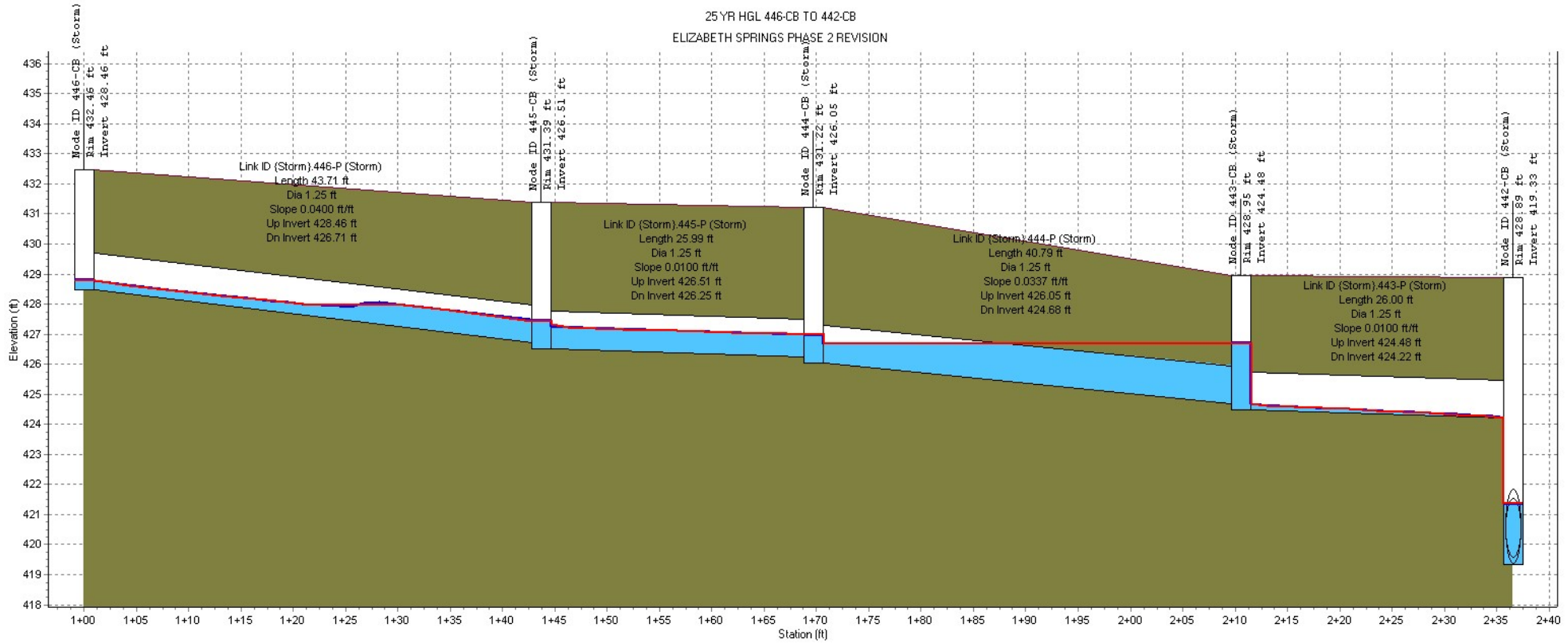
25 YR HGL 439-AD TO 434-CB  
ELIZABETH SPRINGS PHASE 2 REVISION



Node ID:		438-CB (Storm)		436-CB (Storm)		434-CB (Storm)
Rim (ft):		419.14		419.42		415.79
Invert (ft):		413.12		412.03		410.92
Min Pipe Cover (ft):						
Max HGL (ft):		417.09		414.83		412.54
Link ID:		(Storm) 439-P (Storm)		(Storm) 438-P (Storm)		(Storm) 436-P (Storm)
Length (ft):		89.77		90.80		114.40
Dia (ft):		1.25		2.50		2.50
Slope (ft/ft):		0.0100		0.0100		0.0365
Up Invert (ft):		413.12		412.03		410.92
Dn Invert (ft):		412.23		411.12		406.74
Max Q (cfs):		2.52		38.88		40.94
Max Vel (ft/s):		2.05		8.44		13.47
Max Depth (ft):		1.25		2.18		1.43



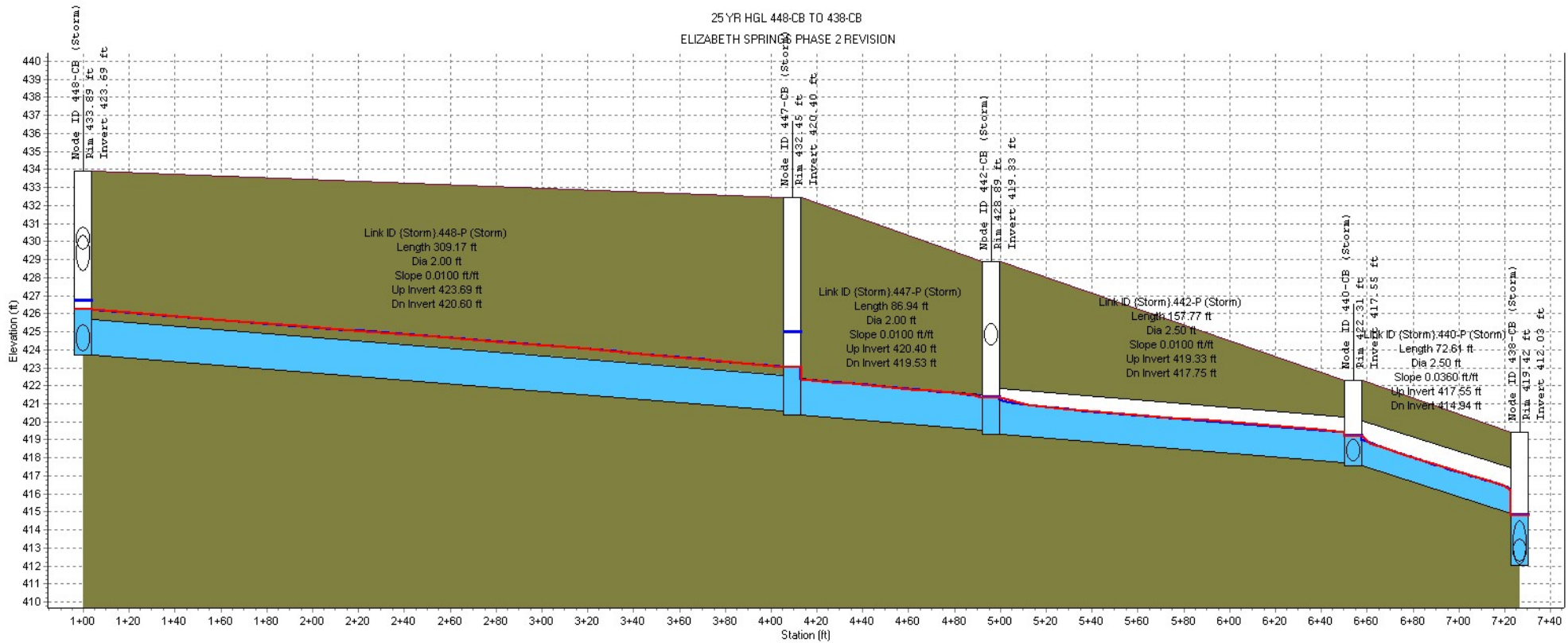
25 YR HGL 446-CB TO 442-CB  
ELIZABETH SPRINGS PHASE 2 REVISION



	445-CB (Storm)	444-CB (Storm)	443-CB (Storm)	442-CB (Storm)
Node ID:				
Rim (ft):	432.46	431.22	428.95	428.89
Invert (ft):	428.46	426.51	424.48	419.33
Min Pipe Cover (ft):				
Max HGL (ft):	428.79	427.44	426.98	426.69
Link ID:	{Storm}.446-P (Storm)	{Storm}.445-P (Storm)	{Storm}.444-P (Storm)	{Storm}.443-P (Storm)
Length (ft):	43.71	25.99	40.79	26.00
Dia (ft):	1.25	1.25	1.25	1.25
Slope (ft/ft):	0.0400	0.0100	0.0337	0.0100
Up Invert (ft):	428.46	426.51	426.05	424.48
Dn Invert (ft):	426.71	426.25	424.68	424.22
Max Q (cfs):	1.84	4.05	5.97	9.22
Max Vel (ft/s):	4.30	4.73	5.77	7.51
Max Depth (ft):	0.53	0.83	1.09	1.18

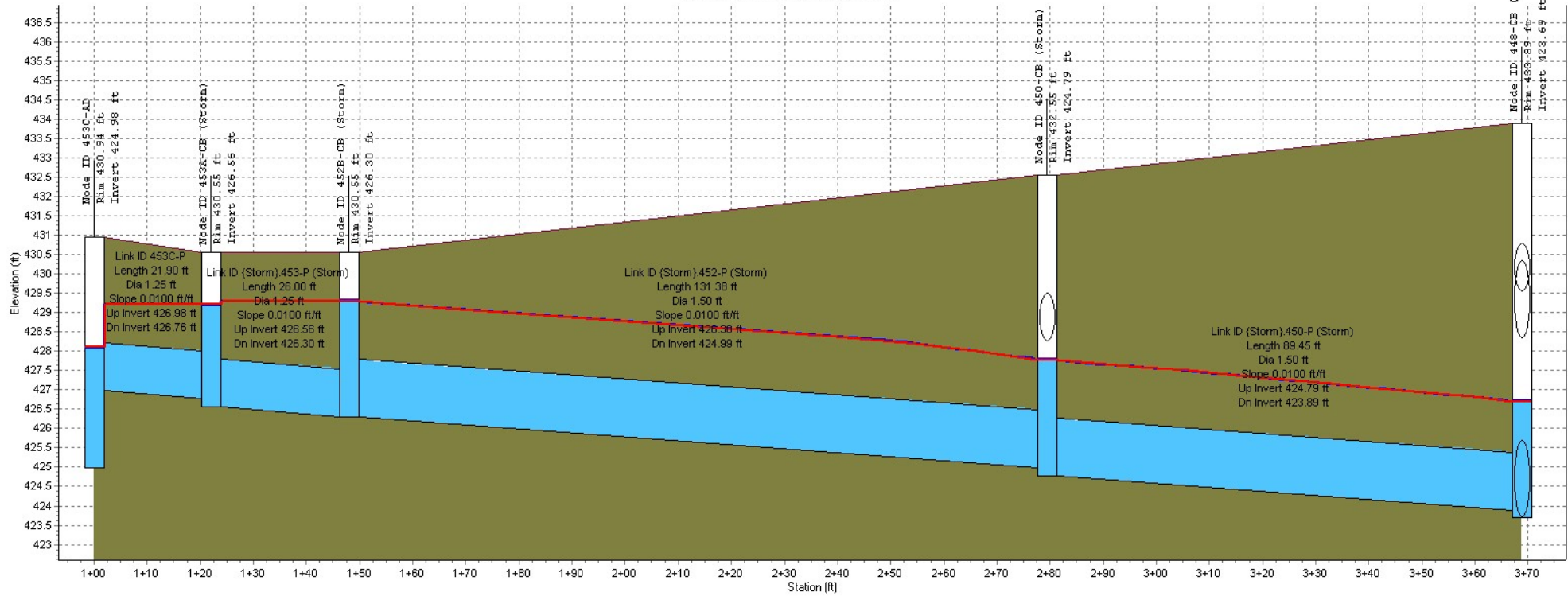


25YR HGL 448-CB TO 438-CB  
ELIZABETH SPRING PHASE 2 REVISION



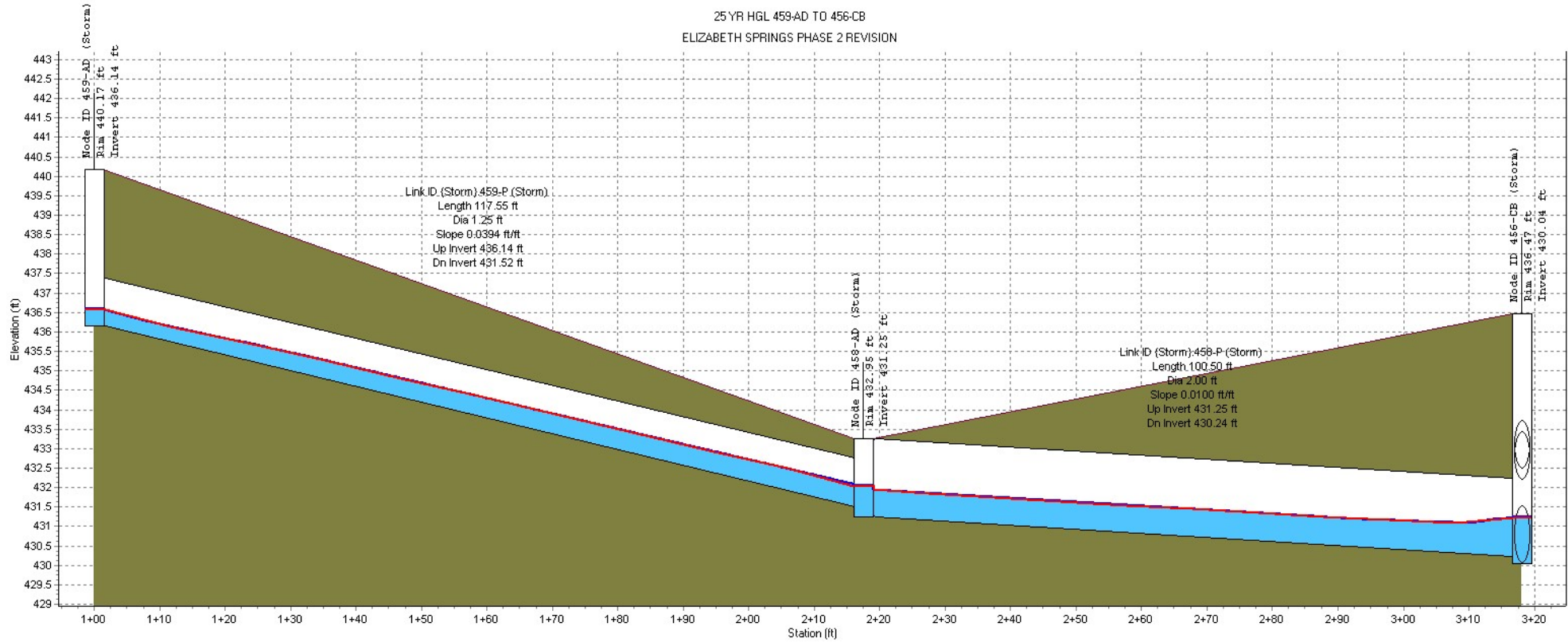
	447-CB (Storm)	442-CB (Storm)	440-CB (Storm)	438-CB (Storm)
Node ID:				
Rim (ft):	432.45	428.89	422.31	419.42
Invert (ft):	420.40	419.33	417.55	412.03
Min Pipe Cover (ft):				
Max HGL (ft):	424.98	421.36	419.20	414.83
Link ID:	{Storm} 448-P (Storm)	{Storm} 447-P (Storm)	{Storm} 442-P (Storm)	{Storm} 440-P (Storm)
Length (ft):	309.17	86.94	157.77	72.61
Dia (ft):	2.00	2.00	2.50	2.50
Slope (ft/ft):	0.0100	0.0100	0.0100	0.0360
Up Invert (ft):	423.69	420.40	419.33	417.55
Dn Invert (ft):	420.60	419.53	417.75	414.94
Max Q (cfs):	23.32	28.85	33.06	36.66
Max Vel (ft/s):	7.42	9.22	8.20	12.33
Max Depth (ft):	2.00	1.92	1.83	1.41

25 YR HGL 453C-AD TO 448-CB  
ELIZABETH SPRINGS PHASE 2 REVISION



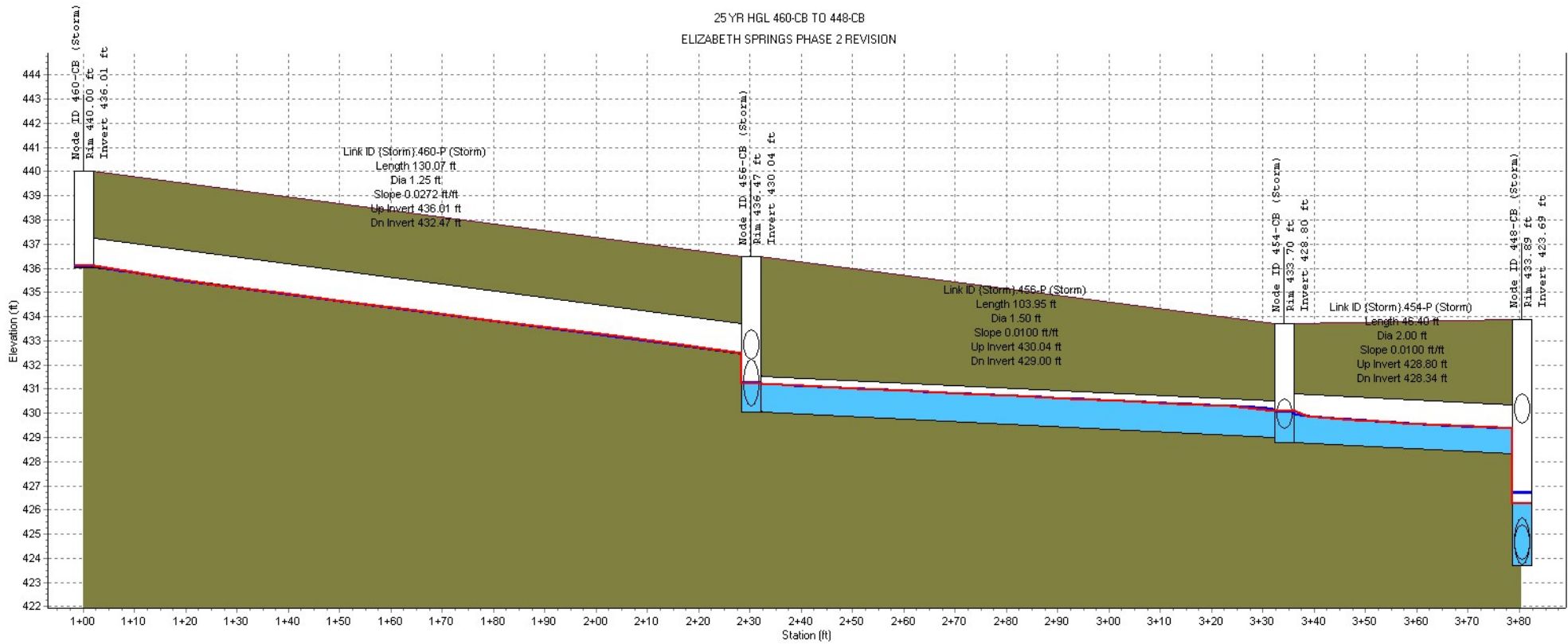
Node ID:	453C-AD	453A-CB (Storm)	452B-CB (Storm)	450-CB (Storm)	448-CB (Storm)
Rim (ft):	430.94	430.55	430.55	432.55	433.89
Invert (ft):	424.98	426.56	426.30	424.79	423.69
Min Pipe Cover (ft):					
Max HGL (ft):	428.11	429.21	429.30	427.77	426.70
Link ID:	453C-P	{Storm}.453-P (Storm)	{Storm}.452-P (Storm)	{Storm}.450-P (Storm)	
Length (ft):	21.90	26.00	131.38	89.45	
Dia (ft):	1.25	1.25	1.50	1.50	
Slope (ft/ft):	0.0100	0.0100	0.0100	0.0100	
Up Invert (ft):	426.98	426.56	426.30	424.79	
Dn Invert (ft):	426.76	426.30	424.99	423.89	
Max Q (cfs):	4.26	5.92	6.55	9.41	
Max Vel (ft/s):	3.47	4.82	4.38	5.33	
Max Depth (ft):	1.20	1.25	1.50	1.50	

25 YR HGL 459-AD TO 456-CB  
ELIZABETH SPRINGS PHASE 2 REVISION



Node ID:		458-AD (Storm)	456-CB (Storm)
Rim (ft):		432.95	436.47
Invert (ft):		431.25	430.04
Min Pipe Cover (ft):			
Max HGL (ft):	436.58	432.03	431.23
Link ID:	(Storm) 459-P (Storm)	(Storm) 458-P (Storm)	
Length (ft):	117.55	100.50	
Dia (ft):	1.25	2.00	
Slope (ft/ft):	0.0394	0.0100	
Up Invert (ft):	436.14	431.25	
Dn Invert (ft):	431.52	430.24	
Max Q (cfs):	3.13	5.80	
Max Vel (ft/s):	7.33	4.28	
Max Depth (ft):	0.47	0.89	

25 YR HGL 460-CB TO 448-CB  
ELIZABETH SPRINGS PHASE 2 REVISION



	460-CB (Storm)	456-CB (Storm)	454-CB (Storm)	448-CB (Storm)
Node ID:		456-CB (Storm)	454-CB (Storm)	448-CB (Storm)
Rim (ft):	440.00	436.47	433.70	433.89
Invert (ft):	436.01	430.04	428.80	423.69
Min Pipe Cover (ft):				
Max HGL (ft):	436.09	431.23	430.08	426.70
Link ID:	{Storm} 460-P (Storm)		{Storm} 456-P (Storm)	{Storm} 454-P (Storm)
Length (ft):	130.07		103.95	46.40
Dia (ft):	1.25		1.50	2.00
Slope (ft/ft):	0.0272		0.0100	0.0100
Up Invert (ft):	436.01		430.04	428.80
Dn Invert (ft):	432.47		429.00	428.34
Max Q (cfs):	0.11		8.17	11.51
Max Vel (ft/s):	2.77		5.57	6.11
Max Depth (ft):	0.09		1.14	1.14

Element ID	Inlet Location	Number of Inlets	Catchbasin Invert Elevation	Max (Rim) Elevation	Max Peak (Rim) Offset	Peak Flow (cfs)	Peak Lateral Inflow	Peak Flow Intercepted by Inlet	Peak Flow Bypassing Inlet	Peak Flow Efficiency during Peak Flow	Max Gutter	Max Gutter Water Elev. during Peak Flow	Max Gutter Water Depth during Peak Flow	Time of Maximum Depth Occurrence
											Spread during Peak Flow			
											(ft)	(ft)	(days hh:mm)	
404-CB (Storm)	On Sag	1	391.40	398.67	7.27	0.49	0.49	N/A	N/A	N/A	2.31	398.83	0.15	0 00:07
405-CB (Storm)	On Sag	1	393.87	398.14	4.27	0.27	0.27	N/A	N/A	N/A	1.88	398.28	0.14	0 00:07
406-CB (Storm)	On Grade	1	395.46	402.32	6.86	0.37	0.37	0.37	0.00	100.00	1.89	402.43	0.12	0 00:08
407-CB (Storm)	On Grade	1	397.92	402.39	4.47	0.27	0.26	0.27	0.00	100.00	1.68	402.50	0.10	0 00:07
408-CB (Storm)	On Grade	1	399.27	404.89	5.62	0.48	0.45	0.01	0.47	2.15	2.09	404.93	0.04	0 00:07
409-CB (Storm)	On Grade	1	399.73	405.04	5.31	0.30	0.30	0.30	0.00	100.00	1.76	405.15	0.11	0 00:07
410-CB (Storm)	On Grade	1	400.85	408.32	7.47	0.77	0.77	0.01	0.76	1.74	2.48	408.37	0.05	0 00:07
412-CB (Storm)	On Grade	1	404.32	408.32	4.00	0.81	0.80	0.78	0.03	96.31	3.58	408.48	0.16	0 00:05
413-CB (Storm)	On Grade	1	407.10	414.59	7.50	0.35	0.35	0.35	0.00	100.00	1.84	414.71	0.11	0 00:06
414-AD (Storm)	On Sag	1	407.61	411.88	4.27	0.49	0.33	N/A	N/A	N/A	2.32	412.03	0.15	0 00:05
415-CB (Storm)	On Grade	1	410.61	414.61	4.00	0.60	0.60	0.01	0.59	1.97	2.28	414.66	0.05	0 00:05
416-CB (Storm)	On Grade	1	411.45	418.26	6.82	0.37	0.37	0.37	0.00	100.00	1.90	418.38	0.12	0 00:06
417-CB (Storm)	On Grade	1	411.91	418.33	6.42	0.05	0.05	0.05	0.00	100.00	0.91	418.38	0.06	0 00:12
418-CB (Storm)	On Grade	1	416.09	420.08	4.00	0.81	0.81	0.78	0.03	96.31	3.58	420.24	0.16	0 00:18
419-AD (Storm)	On Sag	1	413.00	417.00	4.00	0.98	0.98	N/A	N/A	N/A	5.36	417.21	0.21	0 00:12
420-AD-A	On Sag	1	416.53	419.98	3.45	0.53	0.53	N/A	N/A	N/A	2.55	420.14	0.16	0 00:05
420-CB (Storm)	On Grade	1	416.22	421.45	5.24	0.38	0.38	0.38	0.00	100.00	1.91	421.57	0.12	0 00:06
421-CB (Storm)	On Grade	1	417.81	426.59	8.79	0.16	0.12	0.16	0.00	100.00	1.39	426.68	0.09	0 00:06
422-CB (Storm)	On Grade	1	418.27	426.49	8.22	0.07	0.07	0.07	0.00	100.00	1.04	426.56	0.06	0 00:06
423-CB (Storm)	On Grade	1	418.98	427.21	8.23	0.05	0.05	0.05	0.00	100.00	1.05	427.27	0.07	0 00:05
424-CB (Storm)	On Grade	1	423.29	427.28	4.00	0.39	0.28	0.01	0.38	3.71	2.20	427.33	0.04	0 00:05
425-CB (Storm)	On Sag	1	420.29	424.74	4.45	0.18	0.18	N/A	N/A	N/A	1.69	424.88	0.14	0 00:05
426-CB (Storm)	On Sag	1	420.75	424.75	4.00	0.87	0.86	N/A	N/A	N/A	2.93	424.91	0.16	0 00:05
427-CB (Storm)	On Grade	1	424.83	429.25	4.43	0.86	0.86	0.78	0.08	90.66	4.69	429.43	0.18	0 00:05
428-CB (Storm)	On Grade	1	425.29	429.28	4.00	1.06	1.03	0.92	0.14	86.97	5.28	429.47	0.19	0 00:05
429-CB (Storm)	On Grade	1	427.06	433.71	6.65	0.32	0.32	0.01	0.31	4.03	2.05	433.75	0.04	0 00:05
430-CB (Storm)	On Grade	1	429.71	433.71	4.00	0.61	0.61	0.58	0.03	95.86	3.76	433.87	0.16	0 00:05
431-AD (Storm)	On Sag	1	428.13	432.13	4.00	0.65	0.65	N/A	N/A	N/A	2.58	432.29	0.16	0 00:05
432-CB (Storm)	On Grade	1	400.00	405.80	5.80	0.62	0.62	0.01	0.60	1.94	2.29	405.85	0.05	0 00:07
433-CB (Storm)	On Grade	1	401.61	405.88	4.27	0.58	0.58	0.01	0.56	2.01	2.24	405.92	0.04	0 00:05
434-CB (Storm)	On Grade	1	406.29	411.03	4.73	0.47	0.47	0.01	0.46	2.18	2.08	411.07	0.04	0 00:07
435-CB (Storm)	On Grade	1	406.75	411.02	4.27	0.47	0.47	0.01	0.46	2.18	2.08	411.06	0.04	0 00:06
436-CB (Storm)	On Grade	1	410.92	415.79	4.88	0.26	0.26	0.26	0.00	100.00	1.66	415.90	0.10	0 00:07

Element ID	Inlet Number Location of Inlets	Catchbasin Invert Elevation	Max (Rim) Elevation (ft)	Max Peak (Rim) Offset (ft)	Peak Flow (cfs)	Peak Lateral Inflow (cfs)	Peak Flow Intercepted by Inlet (cfs)	Peak Flow Bypassing Inlet (cfs)	Peak Flow Efficiency during Peak Flow (%)	Inlet Max Gutter Spread during Peak Flow (ft)	Max Gutter Water Elev. during Peak Flow (ft)	Max Gutter Water Depth during Peak Flow (ft)	Time of Maximum Depth Occurrence (days hh:mm)	
437-CB (Storm)	On Grade	1	411.83	415.82	4.00	0.41	0.37	0.41	0.00	100.00	1.97	415.94	0.12	0 00:05
438-CB (Storm)	On Grade	1	412.03	419.42	7.39	0.13	0.12	0.13	0.00	100.00	1.29	419.50	0.08	0 00:06
439-AD (Storm)	On Sag	1	413.12	419.14	6.02	0.44	0.44	N/A	N/A	N/A	2.22	419.29	0.15	0 00:05
440-CB (Storm)	On Grade	1	417.55	422.31	4.75	0.79	0.79	0.01	0.78	1.73	2.52	422.36	0.05	0 00:06
441-CB (Storm)	On Grade	1	418.04	422.31	4.27	0.85	0.85	0.81	0.04	95.61	3.71	422.47	0.16	0 00:05
442-CB (Storm)	On Grade	1	419.33	428.89	9.56	0.37	0.36	0.37	0.00	100.00	1.89	429.01	0.12	0 00:06
443-CB (Storm)	On Grade	1	424.48	428.95	4.47	0.53	0.17	0.01	0.52	2.08	2.16	428.99	0.04	0 00:05
444-CB (Storm)	On Grade	1	426.05	431.22	5.17	0.57	0.57	0.53	0.04	93.10	4.49	431.39	0.17	0 00:05
445-CB (Storm)	On Grade	1	426.51	431.39	4.87	1.33	1.33	1.05	0.28	78.65	7.08	431.61	0.23	0 00:05
446-CB (Storm)	On Grade	1	428.46	432.46	4.00	0.82	0.82	0.79	0.03	96.08	3.62	432.61	0.16	0 00:05
447-CB (Storm)	On Grade	1	420.40	432.45	12.05	0.83	0.83	0.80	0.03	95.89	3.66	432.61	0.16	0 00:06
448-CB (Storm)	On Grade	1	423.69	433.89	10.20	0.72	0.72	0.66	0.06	91.75	4.59	434.07	0.18	0 00:06
449-CB (Storm)	On Grade	1	429.80	433.80	4.00	0.65	0.65	0.61	0.04	93.34	4.31	433.97	0.17	0 00:05
450-CB (Storm)	On Grade	1	424.79	432.55	7.77	0.77	0.65	0.70	0.07	90.59	4.80	432.73	0.18	0 00:05
451-CB (Storm)	On Grade	1	428.52	432.52	4.00	0.49	0.45	0.48	0.02	96.92	3.57	432.67	0.16	0 00:05
452B-CB (Storm)	On Sag	2	426.30	430.55	4.26	1.00	0.96	N/A	N/A	N/A	2.22	430.70	0.15	0 00:05
453A-CB (Storm)	On Sag	2	426.56	430.55	4.00	0.55	0.54	N/A	N/A	N/A	1.82	430.69	0.14	0 00:05
453C-AD	On Sag	1	424.98	430.94	5.96	0.46	0.46	N/A	N/A	N/A	2.26	431.09	0.15	0 00:05
454-CB (Storm)	On Grade	1	428.80	433.70	4.90	0.18	0.18	0.18	0.00	100.00	1.52	433.80	0.09	0 00:05
455-CB (Storm)	On Grade	1	429.60	433.60	4.00	1.21	1.11	1.06	0.15	87.50	5.08	433.79	0.19	0 00:05
456-CB (Storm)	On Grade	1	430.04	436.47	6.43	0.13	0.13	0.13	0.00	100.00	1.34	436.55	0.08	0 00:05
457-CB (Storm)	On Grade	1	432.46	436.46	4.00	1.06	1.06	0.95	0.11	89.95	4.70	436.64	0.18	0 00:05
458-AD (Storm)	On Sag	1	431.25	432.95	1.71	0.89	0.89	N/A	N/A	N/A	2.96	433.12	0.16	0 00:05
459-AD (Storm)	On Sag	1	436.14	440.17	4.02	1.08	1.08	N/A	N/A	N/A	5.81	440.39	0.22	0 00:05
460-CB (Storm)	On Grade	1	436.01	440.00	4.00	0.04	0.04	0.04	0.00	100.00	0.89	440.06	0.06	0 00:05