Final Report

University District South Stormwater Site Suitability Assessment for Stormwater Management Design Planning



Prepared For: City of Spokane

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INTRODUCTION

Project Goal and Objectives

The City of Spokane is planning for future stormwater improvements in the University District (Figure 1). In support of this effort, the City has requested that HDR identify areas that are suitable for locating best management practices (BMPs), in public, private, and shared areas. This goal was achieved by meeting the following objectives:

- <u>BMP Palette</u> Identify BMPs that are preferential for managing stormwater in the University District
- <u>Site Suitability Assessment</u> Define a site suitability criteria for assessing whether BMPs can be constructed at a specific location based on the site characteristics. The assessment was developed to align with the City's' requirements for managing stormwater including the National Pollutant Discharge Elimination System (NPDES) municipal stormwater (MS4) permit, sole source aquifer protection, and the underground injection control (UIC) rule. These requirements are defined in the Spokane Regional Stormwater Manual (Spokane County, City of Spokane, and City of Spokane Valley, 2008) and the Ecology Guidance Manual for UIC Wells that Manage Stormwater (Ecology, 2006).
- <u>BMP Classification System</u> Define a BMP classification system that groups BMPs based on a hierarchy of preferred methods for discharging treated stormwater
- <u>Site Characteristic Maps</u> Develop maps that identify the site characteristics needed to assess the suitability of a site for locating each classification of BMPs
- <u>Locate, Select, and Size BMPs</u> Identify locations where BMPs could be located and size the BMP to manage stormwater from the contributing basin area. Identify BMP locations on maps along with whether the area is public, private, or shared.
- <u>Final Report</u> Develop a final report that summarizes the work completed, recommendations for locating BMPs based on the information available, and identify additional information and work needed to achieve the project goal

Project Location

The University District is located in downtown Spokane. This area is generally bound to the south by I-90, the north by Sinto Avenue (and Sharp Avenue), the west by Division Street (and Browne Street), and to the east by the Spokane River, the BNSF Railroad Tracks, and the Hamilton Street I-90 interchange. This project focuses on the portion of the University District that is located south of the Spokane River (See Figure 1, red boundary) which is referred to as the University District South in this report.

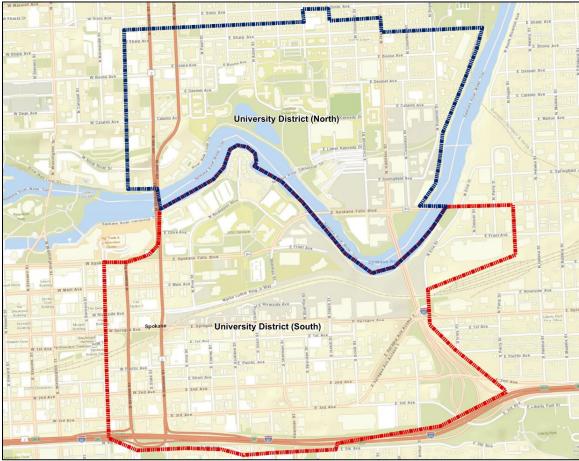


Figure 1. Boundaries of University District North and South

UNIVERSITY DISTRICT MISSION

The Mission of the University District is described on their website as: ".... to grow business and education in the area while simultaneously creating a healthy and prosperous region. The objective of the University District is to achieve sustainable and highest/best use of the land and river; to engage higher educational institutions; to support competitive opportunities for business and foster entrepreneurship and innovation; and to promote a place of opportunity for all" (The University District, 2018).

UNIVERSITY DISTRICT STORMWATER MANAGEMENT VISION

The University District vision for stormwater management builds upon the overall mission of the district. Specifically, the principal elements of EcoDistricts which emphasize the integration of stormwater management in the surrounding landscape and the use of green infrastructure (GI) and shared spaces throughout an area. These elements are discussed further in the following sections.

EcoDistricts

EcoDistricts is a nonprofit organization that assists communities in developing equitable, sustainable, and resilient neighborhoods through its programs and certification standard. Communities which use these programs or meet the certification standard are referred to as "EcoDistricts". A district which meets the EcoDistrict designation implements sustainable measures in all areas of the "triple bottom line" which include:

- **Environmentally:** Implement urban development techniques that create the lowest possible environmental impact.
- **Socially:** Create walkable neighborhoods with a diversity of housing types that allow people of all abilities access to basic resources and improve quality of life.
- **Economically:** Ensure economic sustainability by implementing environmental and social systems that provide lasting economic benefits.

These sustainable measures are accomplished through efforts in four core areas: carbon neutral buildings, zero carbon transportation, green infrastructure, and compact, complete neighborhoods (Bennett, 2009).

In the context of stormwater management, an Ecodistrict approach implements measures that: preserve natural hydrologic flows; conserve and restore of habitats and wetlands; provide stormwater flow control and runoff treatment; and retaining the 95th percentile stormwater event on site. An additional element of the EcoDistrict approach is to use landscape features to develop stormwater solutions and integrate nature into urban environments by incorporating best management practices (BMPs) into public spaces. This approach increases the green ratio and reduces stormwater runoff while creating interesting and visually appealing areas.

Note: This EcoDistrict approach aligns with many of the City's requirements for managing stormwater as defined in the Phase II NPDES MS4 permit (Ecology, 2012), the UIC rule (Ecology, 2006), and sole source aquifer protection (Spokane County, City of Spokane, and City of Spokane Valley, 2008). As such, using an EcoDistrict approach will support the city in meeting these stormwater management requirements.

Common measures that support the EcoDistrict approach to managing stormwater include the use of green infrastructure and shared spaces. Both are the focus of the rest of this section.

Green Infrastructure (GI)

Green infrastructure (GI) is a term that can encompass a wide array of stormwater management practices that strive to protect, restore, or mimic the natural water cycle (American Rivers, 2017). Of particular interest to this project are GI best management practices (BMPs). Primary characteristics of these BMPs including replicating the natural functions of landscape by integrating functions like storage, detention, infiltration, evaporation, and transpiration, or uptake by plants. These BMPs are sized to perform stormwater flow control and/or runoff treatment up to the design storm required by regulators and then excess stormwater is rerouted to overflow

devices during higher rainfall events to prevent flooding conditions. Dry wells and storm sewer networks are commonly used as an overflow devices.

Cisterns are an example of a GI BMP that are common in EcoDistricts. These BMPs collect treated stormwater runoff which can then be used for non-potable water needs (National Capital Planning Commission, 2014). Other examples of GI BMPs include permeable pavement which increases the pervious area and bioretention areas or bio-infiltration swales which replicate the natural functions of the andscape. Additional examples of GI BMPs are defined in the BMP Palette section of this report.

Shared Spaces

Shared spaces typically refer to areas shared by people and traffic (Hamilton-Baillie, 2008) or areas shared by a community, such as an elementary school's playing fields open to the public (Barton, 2000). In either case, shared spaces are important to achieving the EcoDistrict "triple bottom line" in the University District. Shared spaces increase community connectivity and local autonomy (Barton, 2000). Common examples of shared spaces within EcoDistricts include areas within the right-of-way, parks, libraries, schools, or vacant lots.

In the context of this project, shared spaces for stormwater management are those areas within the right-of-way (i.e., sidewalks, roads, alleys) or other facilities shared by a community which are used to provide some sort of stormwater management (e.g. parking lots and undeveloped land). For example, a shared space might include a bioretention area in the planter strip that is constructed between a sidewalk and a roadway. Alternatively, a shared space could involve a rain garden (bioretention BMP) installed at a library. The rain garden would be maintained by the library and provide stormwater management as well as an educational feature for the library and the public. Examples of shared spaces where GI has been installed in EcoDistricts are shown in Figure 2.

Note: For this project, BMPs were only located in areas within the ROW or on undeveloped land. The reference to shared spaces at public locations such as libraries, school, and parks is included to provide a complete definition of shared spaces as a reference for future projects.

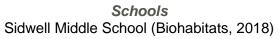
Right of Way: Bike Lane or Medians Leeds, England



Parks Rodney Cook Sr. Park (EcoDistricts, 2017)



Open Spaces along Roads Mount Alvernia Bioretention Swale





Libraries Vancouver Public Library (Hydrotech)



Community Gardens Millvale Eco-District





Figure 2. Eco-District Case Studies where Green Infrastructure BMPs were Located in Shared Spaces

BMP PALETTE

The BMP palette is a list of BMPs that are preferred for managing stormwater in the University District. These BMPs were selected because:

- The BMP characteristics are consistent with green infrastructure BMPs
- The BMP provides the level of treatment and/or flow control necessary to meet the Phase II NPDES MS 4 permit and UIC rule requirements for the University District
- The BMP can be constructed in ultra-urban area like the University District which are typically constrained by space and higher ratio of impervious areas compared to pervious areas (National Research Council, 2008)

The BMP Palette is comprised of the BMPs listed below. A description and pictures of each BMP is provided on the following pages. BMP highlights are also included that specify the BMP classification category, whether the BMP is considered a GI BMP, and the Ecology approved functions (i.e., runoff treatment and flow control). Specific sizing information for each BMP is included in Appendix C and discussed in detail the *Locate and Size BMP Section* of this report.

- Bioretention
- Bio-infiltration: Vegetated
- Bio-infiltration: Non-Vegetated
- Infiltration Trench
- Permeable Pavement
- Pave Drain (or equivalent system)
- Cisterns
- Modular Wetlands (or equivalent system)
- Silva Cells (or equivalent system)

Table 1. Overview of BMP Palette

BMP Name	BMP Description	BMP Highlights
Bioretention Ficture Source: City of Spokane	Bioretention areas are shallow landscaped depressions that use engineered soil mix and plants to provide runoff treatments and flow control. Runoff typically enters the BMP through curb cuts. This BMP is limited to a maximum ponding depth of 6 inches (for the water quality event) and a total BMP depth of 1.5-foot pond. These BMPs contain a layer of treatment soil media at a minimum depth fo 18- inched. The maximum BMP side slopes are 3:1 or may be vertical if the BMP is located in a vault (WSDOT, 2014). Treated stormwater either infiltrates into the existin soils or is conveyed to a storm sewer.	BMP Class: ☑ A ☑ B ☑ C ☑ D ☑ Green Infrastructure BMP □ Proprietary Product Ecology-Approved Function ☑ Flow Control ☑ Runoff Treatment: ☑ Basic ☑ Metals □ Oils □ Phosphorus
Bio-Infiltration: Vegetated	Bio-infiltration ponds or swales combine grasses or other vegetation and soils to remove stormwater pollutants by filtration, soil sorption, and uptake of vegetation. Runoff typically enters the BMP through curb cuts. The pond depth is less than 1.5 feet and the maximum ponding depth is 6 inches for the water quality event. This BMP may include a drywell, set 6 inches above the bottom of the pond, which acts as an overflow during rainfall events that exceed the water quality event. The swale bottom is \leq 1% with max 3:1 side slope (Ecology, 2004). This BMP is sized using a single event model and the 6 month 24 hour event.	 BMP Class: ☑ A ☑ B ☑ C ☑ D ☑ Green Infrastructure BMP □ Proprietary Product Ecology-Approved Function ☑ Flow Control ☑ Runoff Treatment: ☑ Basic ☑ Metals ☑ Oils □ Phosphorus
Picture Source: Aimee Navickis-Brasch Bio-Infiltration: Non-Vegetated	Non-vegetated ponds are the similar to bio-infiltration ponds except vegetation is replaced with rock. This BMP is designed to resemble a dry river bed. This BMP is sized following the same procedures as vegetated bio-infiltration.	BMP Highlights BMP Class: ☑ A ☑ B ☑ C ☑ D ☑ Green Infrastructure BMP □ Proprietary Product Ecology-Approved Function ☑ Flow Control ☑ Runoff Treatment: ☑ Basic ☑ Metals ☑ Oils □ Phosphorus

BMP Name	BMP Description	BMP Highlights
Infiltration Trench Ficture Source: (SuDS Wales, 2018)	Infiltration trenches are long, narrow, stone-filled trench used for collection, temporary storage, and infiltration of stormwater runoff. This BMP is often located beneath parking areas or adjacent to linear contributing areas such as roads. Infiltration trenches are best suited for locations without curbs which allows runoff to sheet flow into the BMP. A vegetated filter strip (VFS) upstream of the BMP provides pre-treatment which reduces the BMP maintenance cycle. This BMP is used to provide both flow control and runoff treatment. Infiltration trenches must have a minimum width of 2 feetand a maximum bottom slope of 3%. Infiltration trenches are sized to contain the 10-year 24-hour event with 1-foot a freeboard (WSDOT,	 BMP Class: ☑ A ☑ B ☑ C ☑ D ☑ Green Infrastructure BMP □ Proprietary Product Ecology Approved Function ☑ Flow Control ☑ Runoff Treatment: ☑ Basic ☑ Metals □ Oils ☑ Phosphorus *treatment credit where underlying soils meet treatment criteria
Permeable Pavement Ficture Source: (The Spokesman Review, 2016)	2014) using a single event model. Permeable concrete or asphalt surfaces are an open graded pavement mix placed in a manner that results in a high degree of interstitial spaces within the cemented aggregate. This allows runoff to infiltrate through the pavement and into the sub-soils or an underdrain is located under the pavement which conveys runoff to a storm sewer system. In some locations, the BMP is limited to pedestrian paths and light to medium-load roadways or parking areas (WSDOT, 2014). The pavement slope should be ≤1%.	BMP Class: ☑ A ☑ B ☑ C ☑ D ☑ Green Infrastructure BMP □ Proprietary Product Ecology-Approved Function ☑ Flow Control □ Runoff Treatment*: □ Basic □ Metals □ Oils □ Phosphorus *treatment credit where underlying soils meet treatment criteria
Pave Drain (or Equivalent)	Pave Drain is a proprietary permeable concrete block system. This BMP allows runoff to infiltration between the blocks and the arch design provides temporary storage of stormwater before infiltrating into the sub-soils or runoff maybe collected in an underdrain and conveyed to a storm sewer. The arched reservoir can hold approximately 1" of water per square foot. This product must be placed on a stable base, typically on slopes less than 5%, and can be used in parking lots, low speed roadways, alley ways, emergency access lanes, intersections, and residential driveways.	 BMP Class: ☑ A ☑ B ☑ C ☑ D ☑ Green Infrastructure BMP ☑ Proprietary Product Ecology-Approved Function ☑ Flow Control □ Runoff Treatment*: □ Basic □ Metals □ Oils □ Phosphorus *treatment credit where underlying soils meet treatment criteria

BMP Name	BMP Description	BMP Highlights
Cistern Ficture Source: (Contech, 2018)	Cisterns are used to collect runoff from conveyance pipes including roofs. Most cisterns are constructed of plastic, steel, or concrete. Cisterns can provide flow control benefits by capturing, storing, and reuse which slows the release of stormwater runoff rates. Standard manufacturer's sizes range from approximately 2000 gallons to 22,500 gallons, and cisterns are sized based upon volume of runoff from the contributing basin area and the targeted discharge flow rate. They may be installed below or above ground. This BMP does not provide treatment instead a runoff treatment BMP should be located upstream of the cistern and prior to discharging into the cistern.	 BMP Class: □ A □ B ☑ C ☑ D ☑ Green Infrastructure BMP □ Proprietary Product Ecology-Approved Function ☑ Flow Control □ Runoff Treatment: □ Basic □ Metals □ Oils □ Phosphorus
Modular Wetland (or Equivalent)	Modular wetlands are a versatile biofiltration system that allow for stormwater management in ultra-urban areas. This BMP can be configured to accept flow through curb cute, grates, vaults, and downspouts. Treatment is provided as runoff enters a pre-treatment chamber, then flows horizontally through the wetland media, and discharge through an outlet pipe with an orifice plate to control the flow of water (Bio Clean, 2018). Runoff is typically discharged to a storm sewer or a detention BMP such as the cistern. This BMP is sized based on a contributing basin area hydraulic loading of 1 gpm per sqft of wetland cell surface area.	 BMP Class: □ A □ B ☑ C ☑ D ☑ Green Infrastructure BMP ☑ Proprietary Product Ecology-Approved Function ☑ Flow Control ☑ Runoff Treatment: ☑ Basic ☑ Metals □ Oils ☑ Phosphorus
Silva Cell (or Equivalent)	Silva Cell is approved by Ecology as functionally equivalent to a bioretention cell and should be designed using the same methods. The cells can be configured to provide storage for infiltration or detention and release to storm sewers or infiltration into the ground. This BMP provides large volumes underground for stormwater management through absorption, evapotranspiration, and interception (Deeproot, 2018). Treatment occurs as runoff flows through bioretention soils and flow rates are reduced through infiltration. Silva cell comes in 3 sizes (min. 10 cells per application). Each cell = 10 sqft of treatment area.	 BMP Class: ☑ A ☑ B ☑ C ☑ D ☑ Green Infrastructure BMP ☑ Proprietary Product Ecology-Approved Function ☑ Flow Control ☑ Runoff Treatment: ☑ Basic ☑ Metals □ Oils □ Phosphorus

SITE SUITABILITY ASSESSMENT

A site suitability assessment was performed for the purpose of identifying potential areas for locating BMPs in the University District South. The site suitability assessment process essentially compares the site characteristics required to locate a BMP to the actual characteristics at the proposed site. If the actual site characteristics meet or exceed the required characteristics, the site is considered suitable for locating the BMP and the next step is to select and size a BMP. If the actual site characteristics do not meet the required characteristics, the site is not suitable for locating the BMP. The site suitability assessment process was developed to guide decisions that will determine suitability. The selected process is illustrated in Appendix A (Figure 3). The primary components of the assessment process are summarized below and the remainder of this section provides a discussion on each component.

- Define a <u>BMP classification system</u> that groups BMPs based on a hierarchy of preferred methods for discharging treated stormwater
- Define a <u>site suitability criteria</u> that identifies the site characteristics required for locating each BMP classification at a proposed site and meets the City's' NPDES MS4, UIC rule, and sole source aquifer protection requirements for stormwater management. These requirements are defined in the Spokane Regional Stormwater Manual (Spokane County, City of Spokane, and City of Spokane Valley, 2008) and the Ecology Guidance Manual for UIC Wells that Manage Stormwater (Ecology, 2006).
- Develop <u>maps that identify the site characteristics</u> needed to assess whether the site is suitable for locating each classification of BMPs

BMP Classification System

The BMP classification system groups BMPs based on a hierarchy of preferred methods for discharging treated stormwater runoff (Figure 4). Discharge methods identified for this project include: infiltration, infiltration via drywell, and discharge to storm or combined sewer. The following outlines four BMP classifications relative to the site suitability:

- Class A BMP: Site is Suitable for BMPs that infiltrate treated runoff
- **Class B BMP:** Site is suitable for BMPs that discharge treated runoff to a drywell
- Class C BMP: Site is suitable for BMPs that discharge treated runoff to a storm sewer
- Class D BMP: Site is suitable for BMPs that discharge treated runoff to a combined sewer

The BMPs are listed in order of preference. Class A BMPs are the most preferred because these BMPs manage stormwater by mimicking that natural processes, specifically infiltrating the runoff contributing to the BMP. Class C and D BMPs are the least preferred because runoff treated from these BMPs are collected and conveyed to another location which alters the natural hydrology of the site. This process of BMP selection is consistent the selection process outlined in the Ecology Stormwater Management Manuals.

The first step in the site suitability assessment is to determine which BMP Classification is suitable for the proposed site. The site suitability criteria is specific to each BMP class and the assessment starts with Class A BMPs and then proceeds to the next class until a the site is determined suitable

for locating that BMP Class. If the site is not suitable for any of the BMP classifications, then it is assumed that the site is not suitable for managing stormwater on-site and off-site options should be considered.

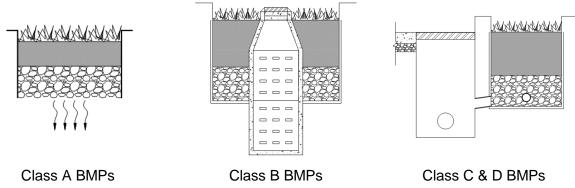


Figure 4. Example of BMP Classifications

NPDES and UIC Requirements

The site suitability criteria defined for each class of BMP aligns with the City's requirements for stormwater management as defined in the Phase II NPDES MS4 permit (Ecology, 2012), the Eastern Washington Stormwater Management Manual (Ecology, 2004), and the Ecology Guidance Document for UIC wells that Manage Stormwater (Ecology, 2006). Specifically, the site suitability criteria for Class A and B BMPs is the same criteria that is used to determine whether the site characteristics are suitable for locating an infiltration BMP in the Spokane Regional Stormwater Manual (Spokane County, City of Spokane, and City of Spokane Valley, 2008). In addition, the criteria defined in the UIC guidance document for determining the pre-treatment and vadose zone requirements for stormwater runoff to drywells, is also embedded in the site suitability criteria for this project. However the criteria with respect to UICs has been simplified. For this project BMPs will always be located upstream of a drywell and provide treatment of runoff from the water quality rainfall event (6 month 24 hour), which is equivalent to the volume of runoff from 91% of the rainfall events, prior to discharging to drywells. As such, the vadose zone requirements are achieved with this upstream BMP and only a 5-foot separation is required between the base of the drywell and groundwater or the impermeable layer. With this approach it is not necessary to assess the vadose zone treatment capacity relative to the pollutant loading to determine the pretreatment requirements or assess whether a separation greater than 5-feet is required between the base of the drywell and the groundwater or impermeable layer elevation. Instead a BMP is selected that provides the required treatment for the UIC based on the pollutant loading at the project site (Map 8) and the required treatment is provided before runoff is discharged to the UIC.

Site Characteristic Maps

The site characteristics necessary to conduct the site suitability assessment for the University District South were identified on Maps to streamline the assessment process. A total of tens maps were developed which are located in Appendix A and briefly described in Table 2. The sources of information used to develop the maps is located in Appendix B.

Table 2. List of Maps Developed and Application in Site Suitability Assessment

Map Title & Description
Map 1. Project Location Map
Map illustrates the limits for the University District North and South
Map 2. Land Areas
Identifies areas that are public, private, and shared. Where:
 Public areas are owned by government agencies (i.e. City of Spokane)
Private areas are owned by other than government agencies, including Avista
• Potential shared areas include: ROW (planter strip, bike lane buffer, median),
Undeveloped Land/Open spaces along roads/highways, Publicly owned land
Map 3. Locations Not Suitable for Infiltration BMPs
Includes land areas that are either protected or considered unbuildable areas for BMPs. These
items are part of CCC and only apply to DMDs that infiltrate. This includes the leastion of the

Includes land areas that are either protected or considered unbuildable areas for BMPs. These items are part of SSC and only apply to BMPs that infiltrate. This includes the location of the following items: Contaminated soils, Wetlands, 100 year flood zone, Railroad Right-of-Way, Slopes >15%, Existing buildings and minimum building setbacks, and drain tile buffers *Note: Ecology defines constraints regarding the location of a BMP with respect to drinking wells*

and native plant/growth protection areas. However, none were located within the project area.

Map 4. Depth to Groundwater

Includes groundwater level information such as:

- Depth to groundwater measurements obtained during geotechnical borings for the City
- High-level groundwater depth for the area according to Web Soil Survey
- Locations of historic lakes circa 1883, where groundwater elevations are expected to be closer to the surface

Map 5. Depth to Impermeable Layer

Includes information regarding depth to impermeable layers, such as:

- Reported location of geotechnical borings and associated depth to impermeable measurements taken during borings
- Profile of impermeable layers, along sewer alignments in the University District South
- High-level depth to bedrock for according to Web Soil Survey

Map 6. Saturated Hydraulic Conductivity (Ksat)

Includes Ksat data for the project area, such as:

- High-level Ksat according to geotechnical studies and Web Soil Survey
- Calculated Ksat values from geotechnical study data using the D200 Method (Spokane County, City of Spokane, and City of Spokane Valley, 2008)

The Ksat for the project area is assumed to be greater than 14-inches/hour. This assumption is consistent with Ksat values reported by soil web survey as well findings reported in geotechnical studies (see appendix B for a full list of the geotechnical reports).

Map 7. Existing Stormwater Features

This map identifies the location of existing stormwater features for the purpose of determining where BMPs are needed (areas without BMPs). This map is also used to assess site suitability for class C and D BMPs (identify whether a storm or combined sewer system is located near the project site. Catch basins, drywells, outfalls, clean water connections, etc. are also shown.

Map 8. Runoff Treatment Requirements

Map 8 identifies the runoff treatment requirements based on the land use as defined in the NPDES MS4 permit and the UIC rule. The treatment classes for parking lots was determined by counting the number of parking spaces (using Google Earth) and estimating the number of trip ends based on whether parking is provided for commercial or residential areas. For example, it was assumed that commercial businesses have more trip ends than residences.

Map 9. Contributing Basin Areas

The basin areas for proposed BMPs were delineated for undeveloped land and areas within the city ROW (sidewalks and roads). The delineation was determined using the topography information provided by the City of Spokane. The basin information was then used to size the proposed BMPs. The delineated areas did not include any run-on from other areas including roofs drains and alleys.

Map 10. Proposed BMP Locations

This map identifies the sites that are suitable for locating a BMP along with the BMP identification number. Specific sizing information for each BMP is located in Appendix D.

SELECT AND SIZE BMPS

Once a site was determined suitable for a BMP classification, the next step was to select a BMP from the BMP palette. Then the runoff treatment required at the proposed site was identified (Map 8) and compared to the Ecology approved BMP runoff treatment function. If the required treatment was not provided by the BMP, another BMP was selected. If the required treatment was provided, the next step was to size the BMP. Appendix C defines the methods for sizing BMPs. The BMP were designed using graphs with predetermined sizing information for a range of basins and infiltration rates. After the BMP was sized, the proposed BMP location and contributing basin area were identified on Map 10 and the BMP sizing information was summarized in Appendix D Table.

A note about saturated hydraulic conductivity (Ksat) vs infiltration rate for this project:

Infiltration rates are typically determined by field measurements or calculated using Darcy's Law which relies on knowledge of Ksat and the groundwater elevation. For this project, limited data was located that defined the infiltration rate, Ksat, and/or depth to groundwater (during traditionally high ground elevations) in the University District. Since infiltration rates from the proposed site are needed to size BMPs, the rate was assumed to be 1.5-in/hr for all the BMPs. This assumption seems reasonable because most of the BMPs include a layer of treatment soil and the design or long term infiltration rate for this soil is 1.5-in/hr as defined the Eastern Washington Low Impact Development Manual (AHBL & HDR, 2013). For Class C/D BMPs this assumption should provide a representative BMP size. For Class A/B BMPs, the BMP size may need to be adjusted once additional subsurface information is measured for a proposed site.

ADDITIONAL INFORMATION NEEDED

More information is needed to that defines the ground water depth, infiltration rate, and Ksat for the University District South. Specifically: 1) install monitoring wells and record groundwater elevations for more than one year and 2) conduct in-situ testing to determine area infiltration rates and/or use soil sample gradations from the area to calculate Ksat using the D200 method (Spokane County, City of Spokane, and City of Spokane Valley, 2008).

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APPENDIX A. MAPS

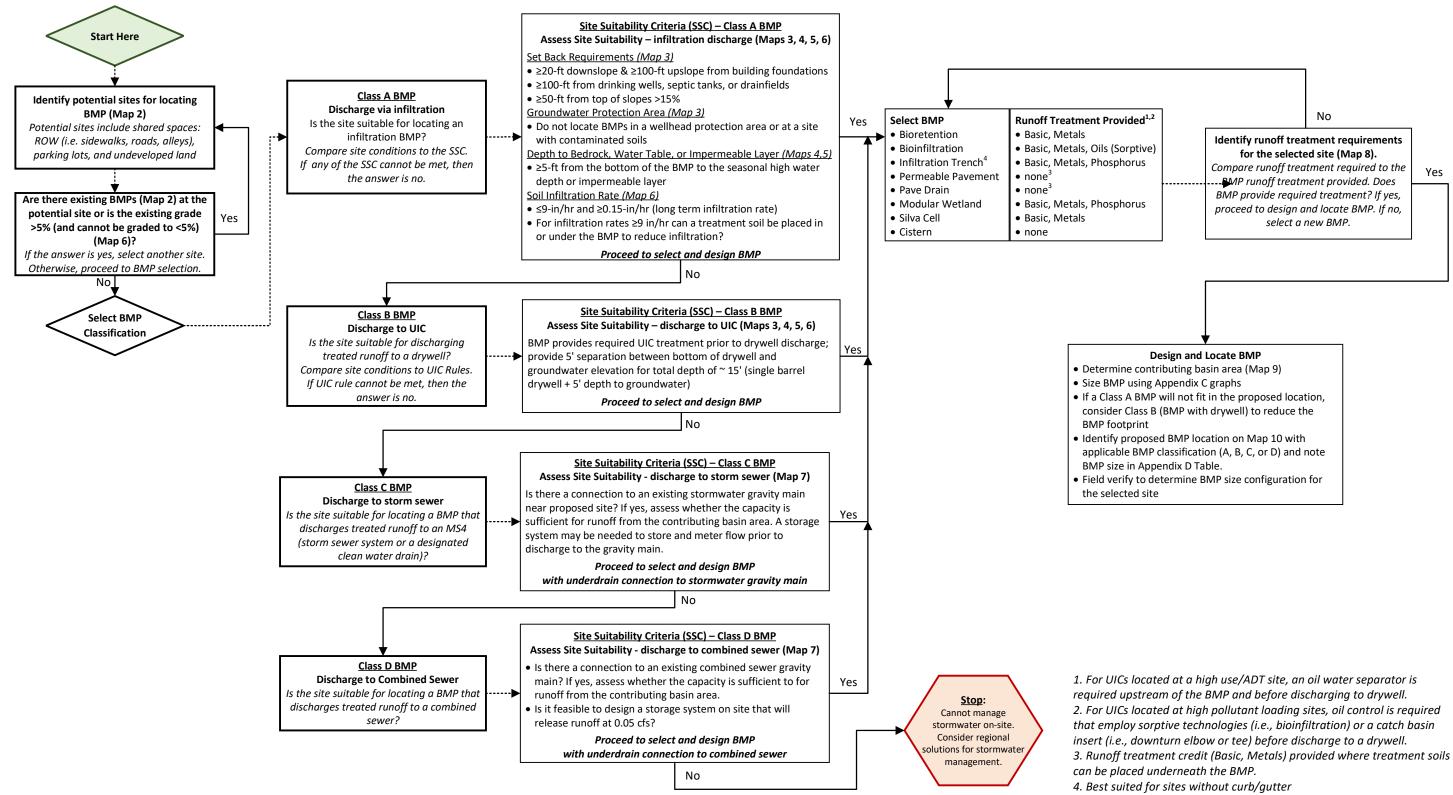
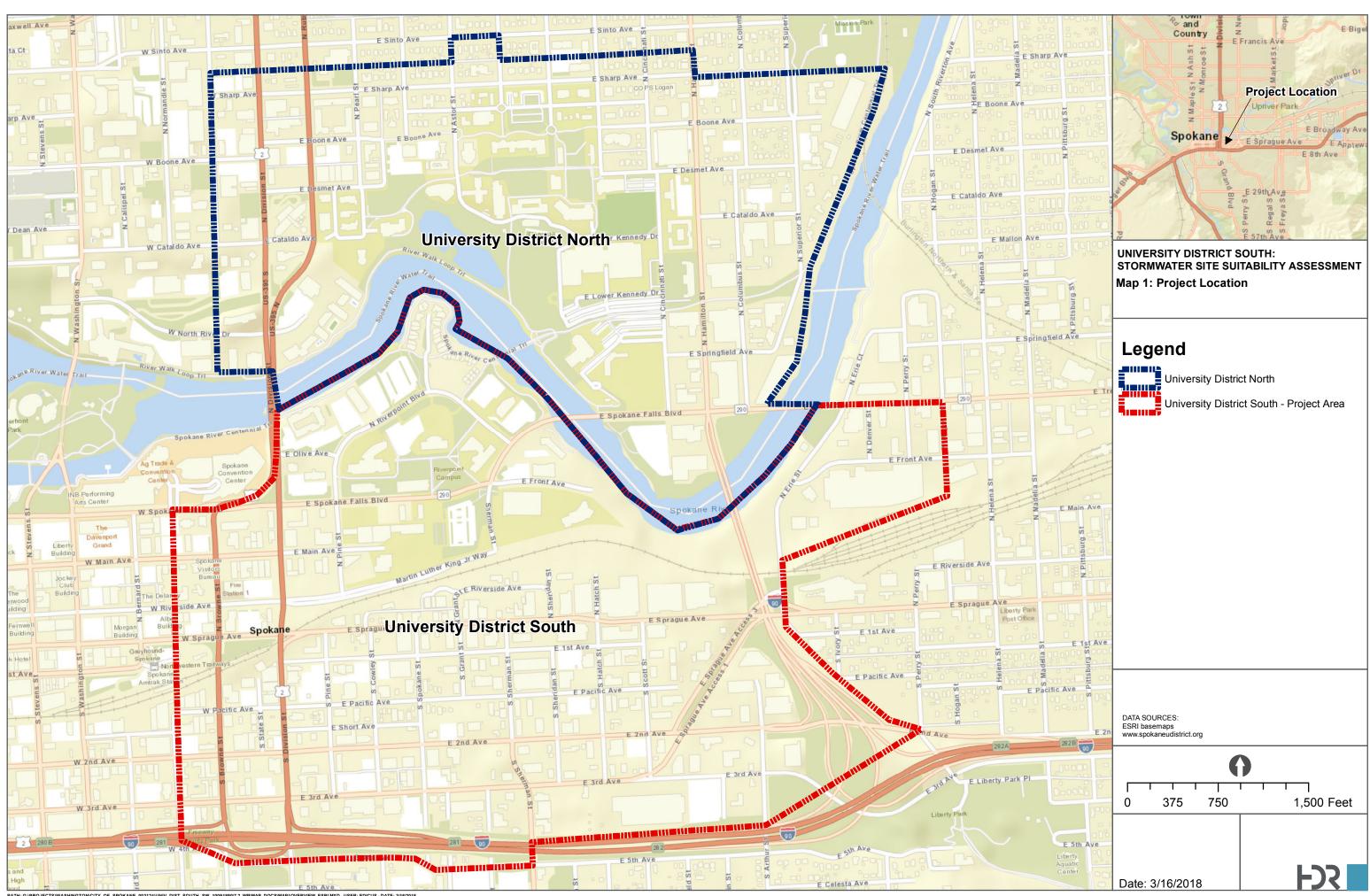
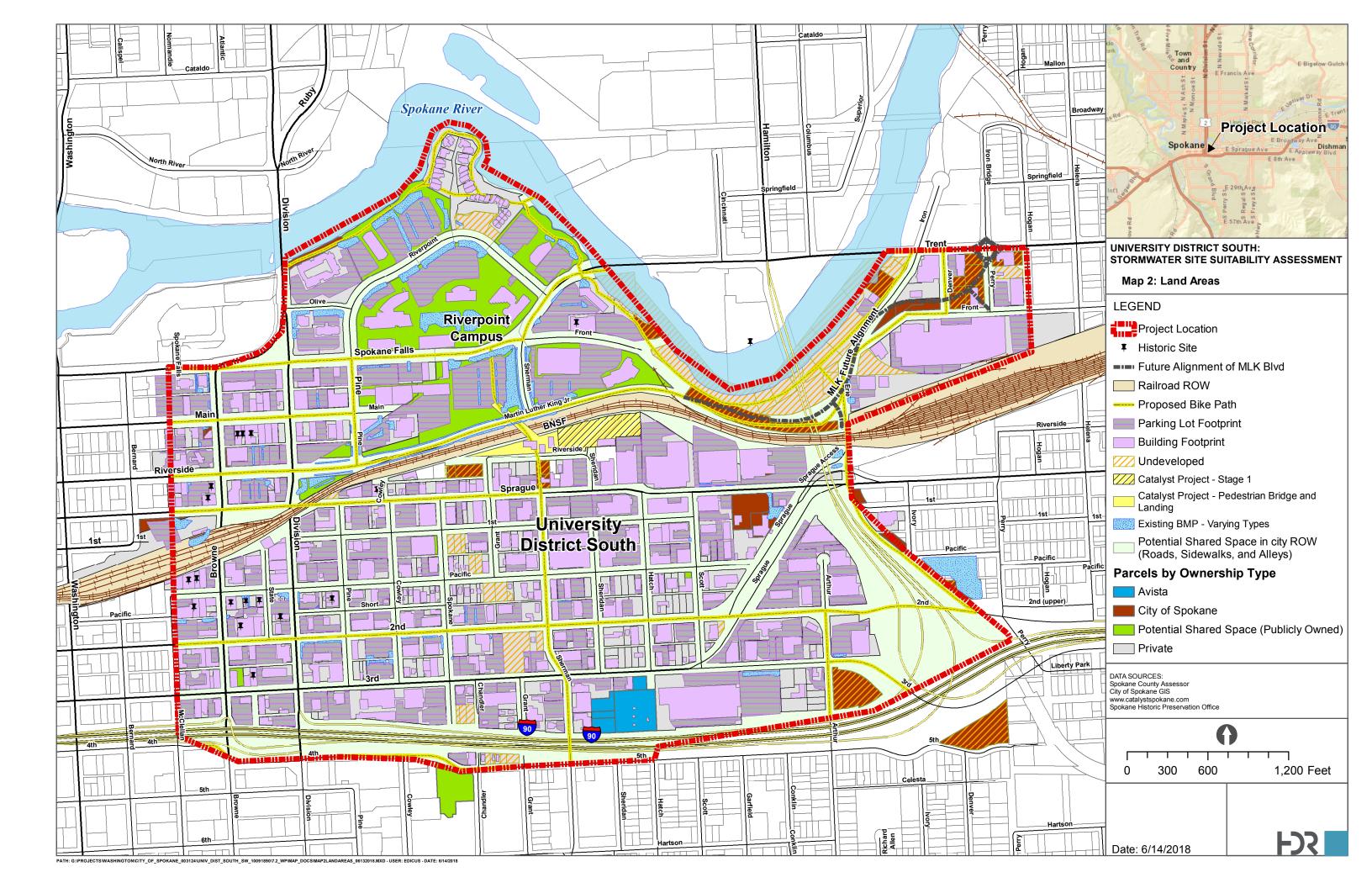


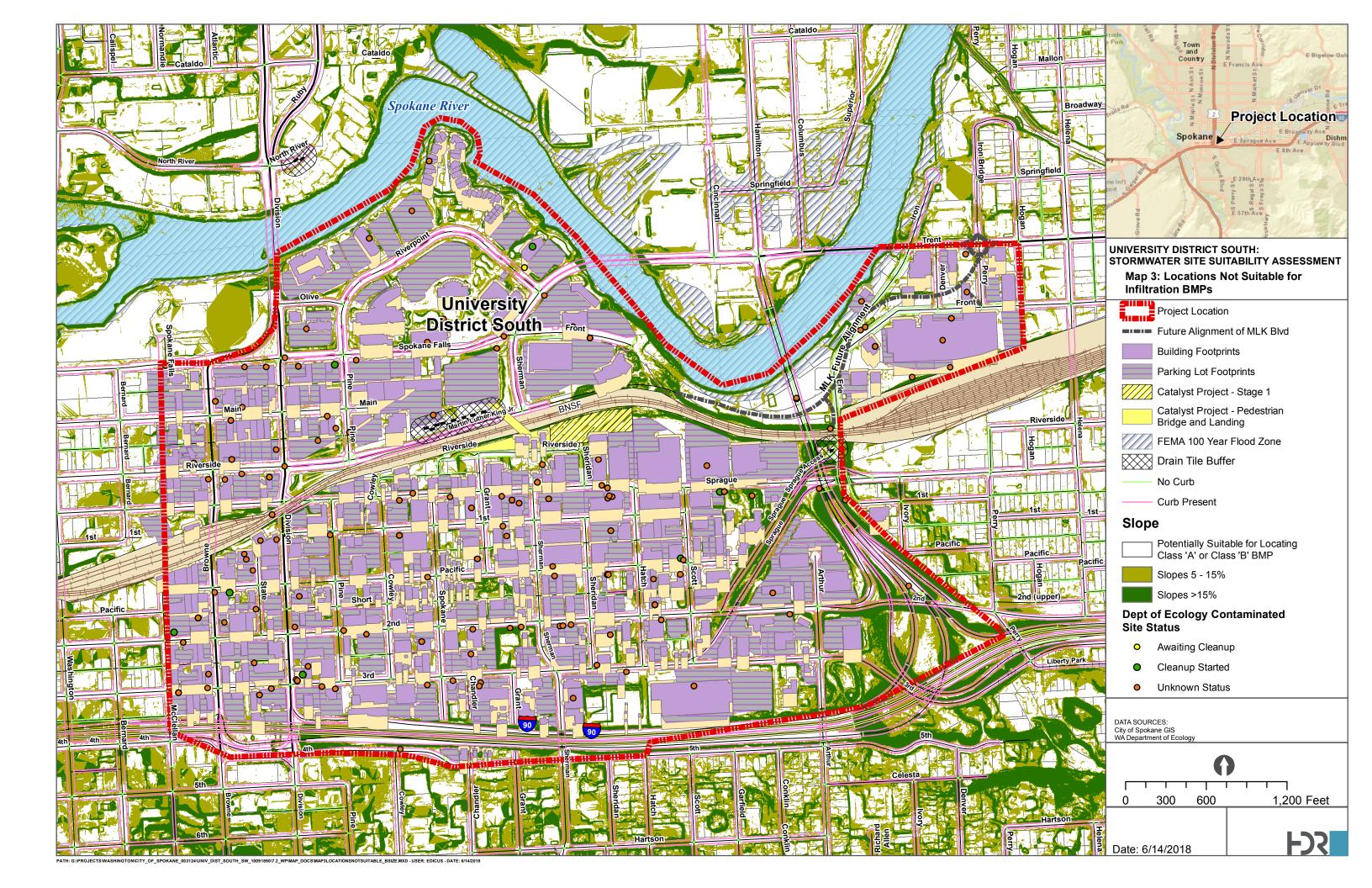
Figure 3. Site Suitability Assessment for Locating BMPs in the University District South

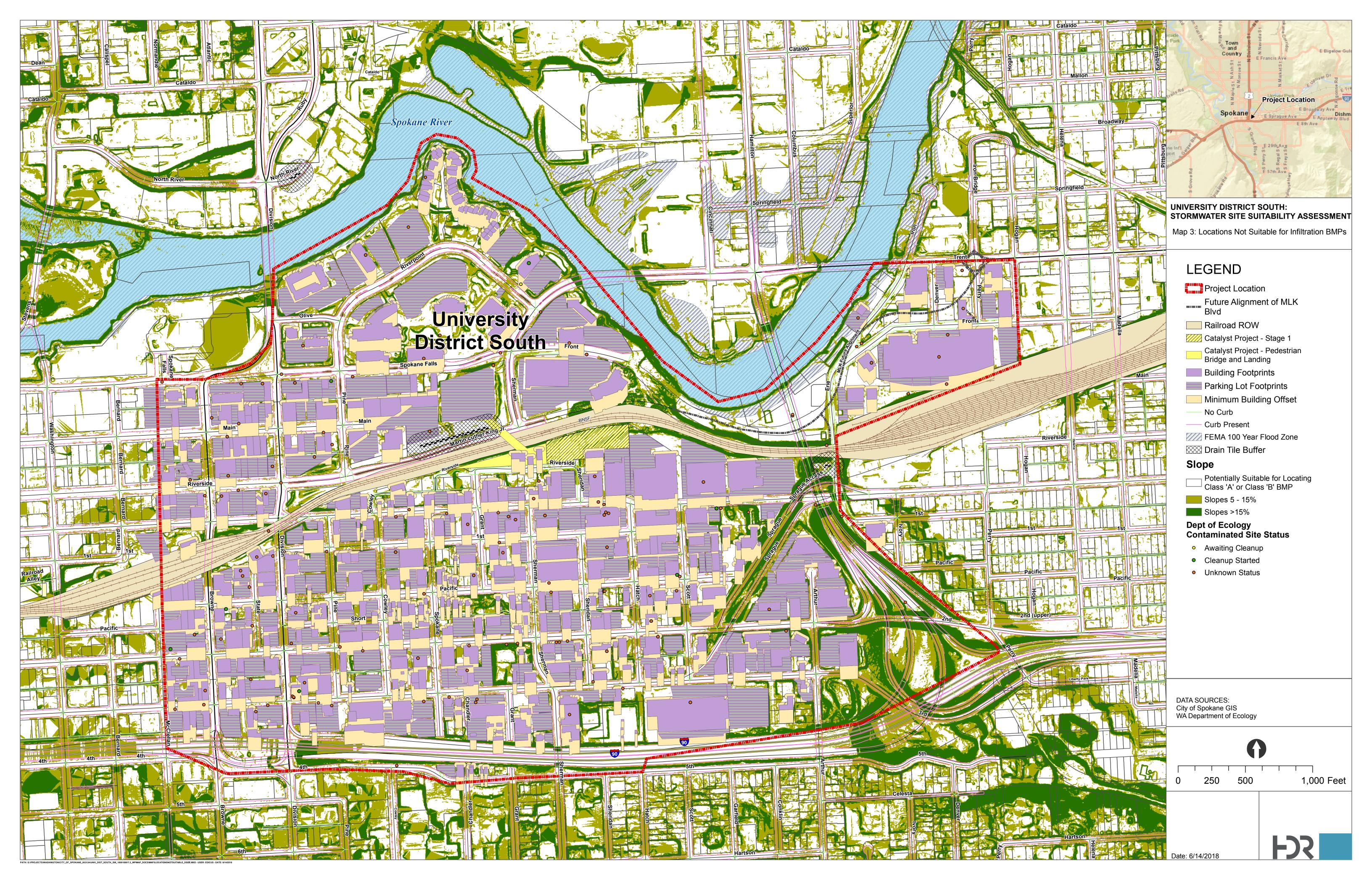


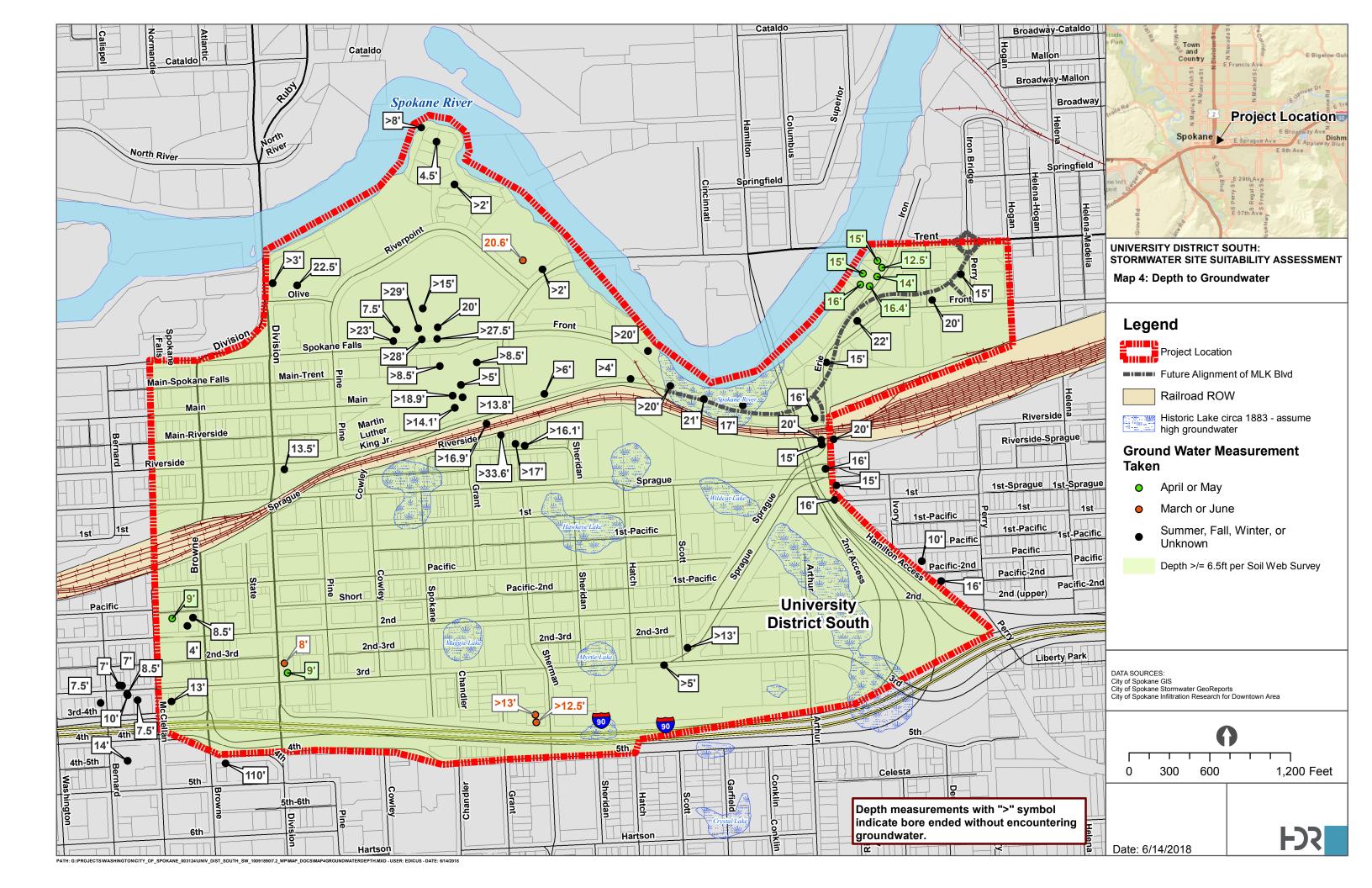


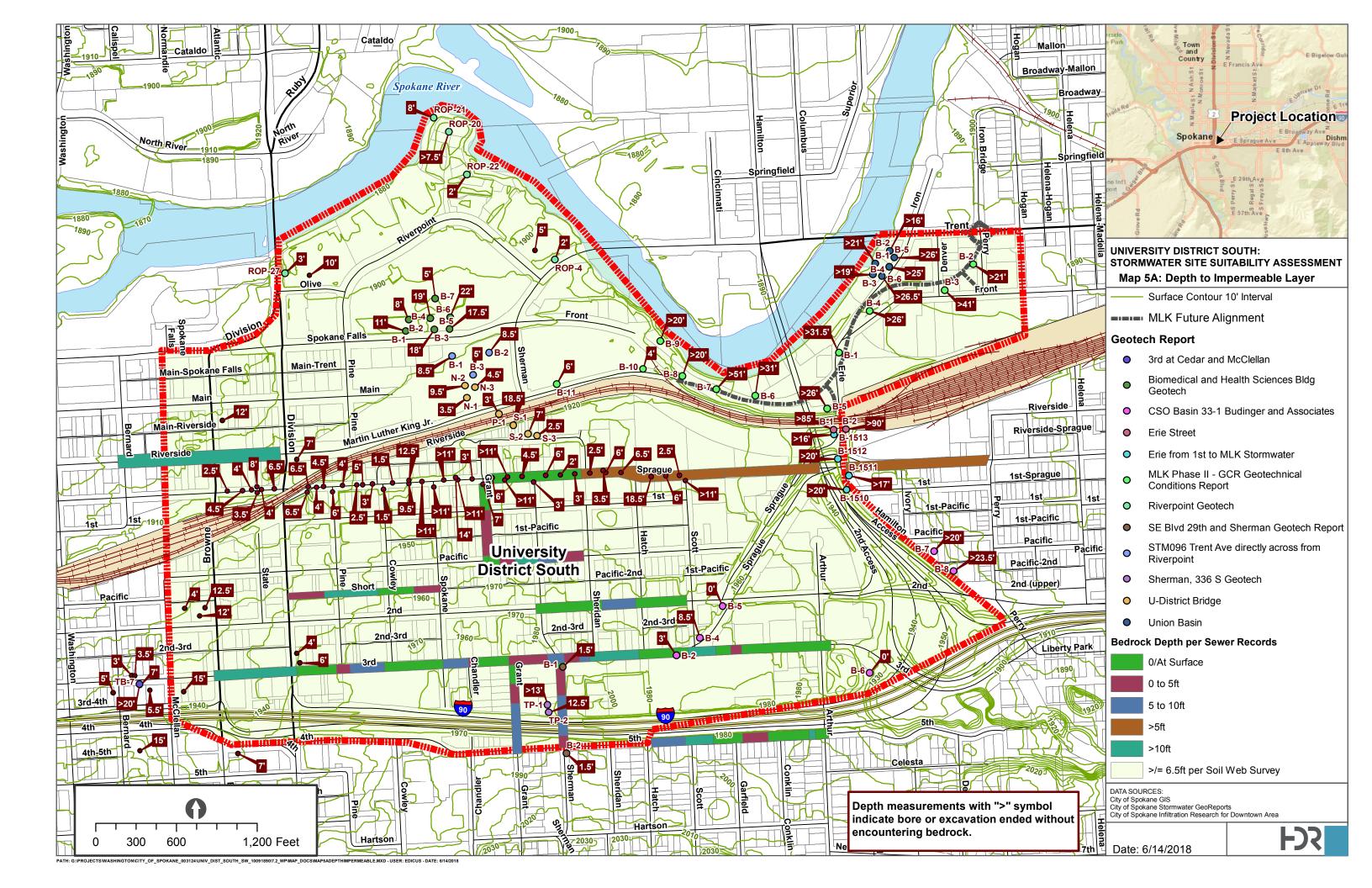
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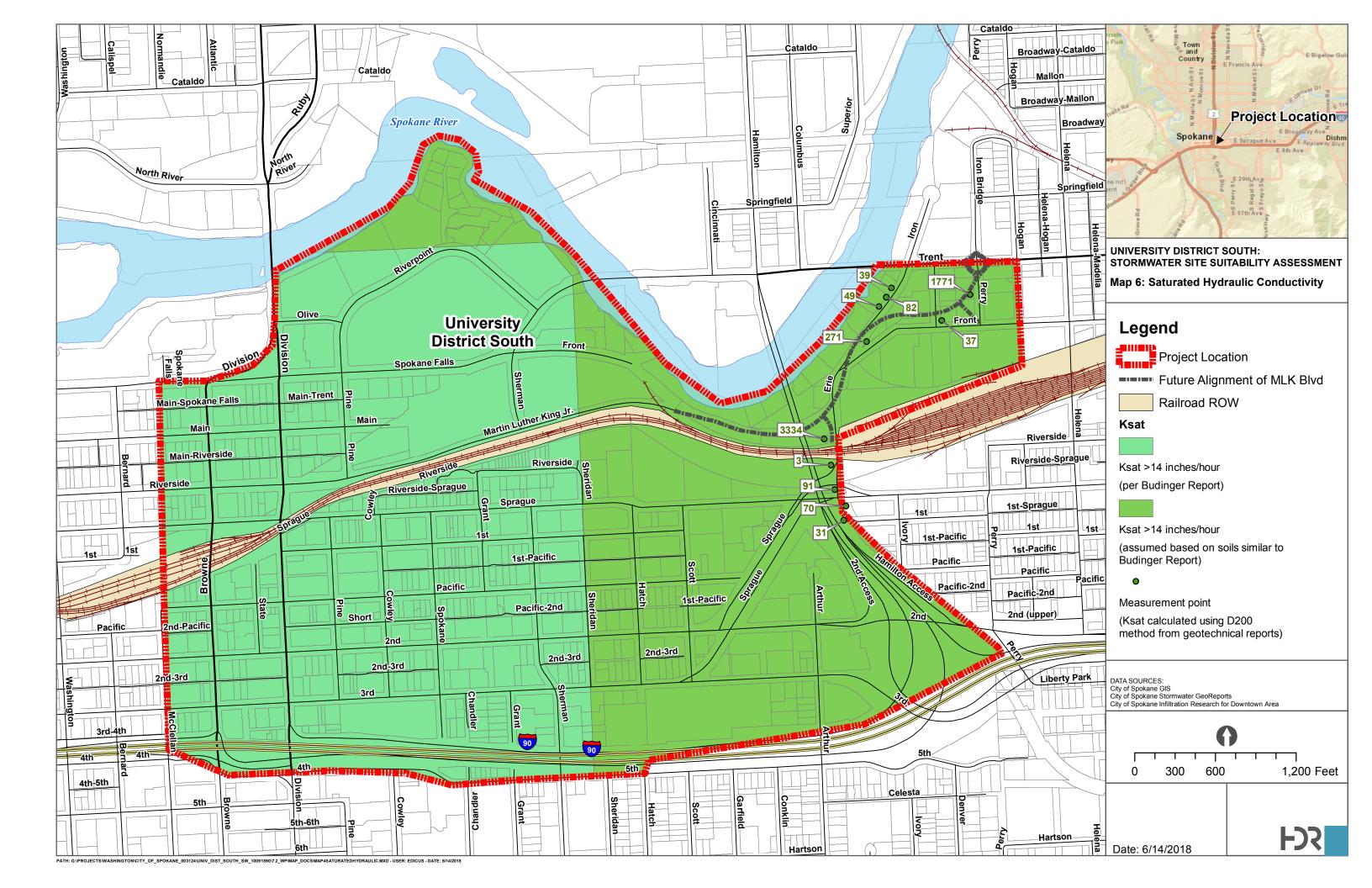


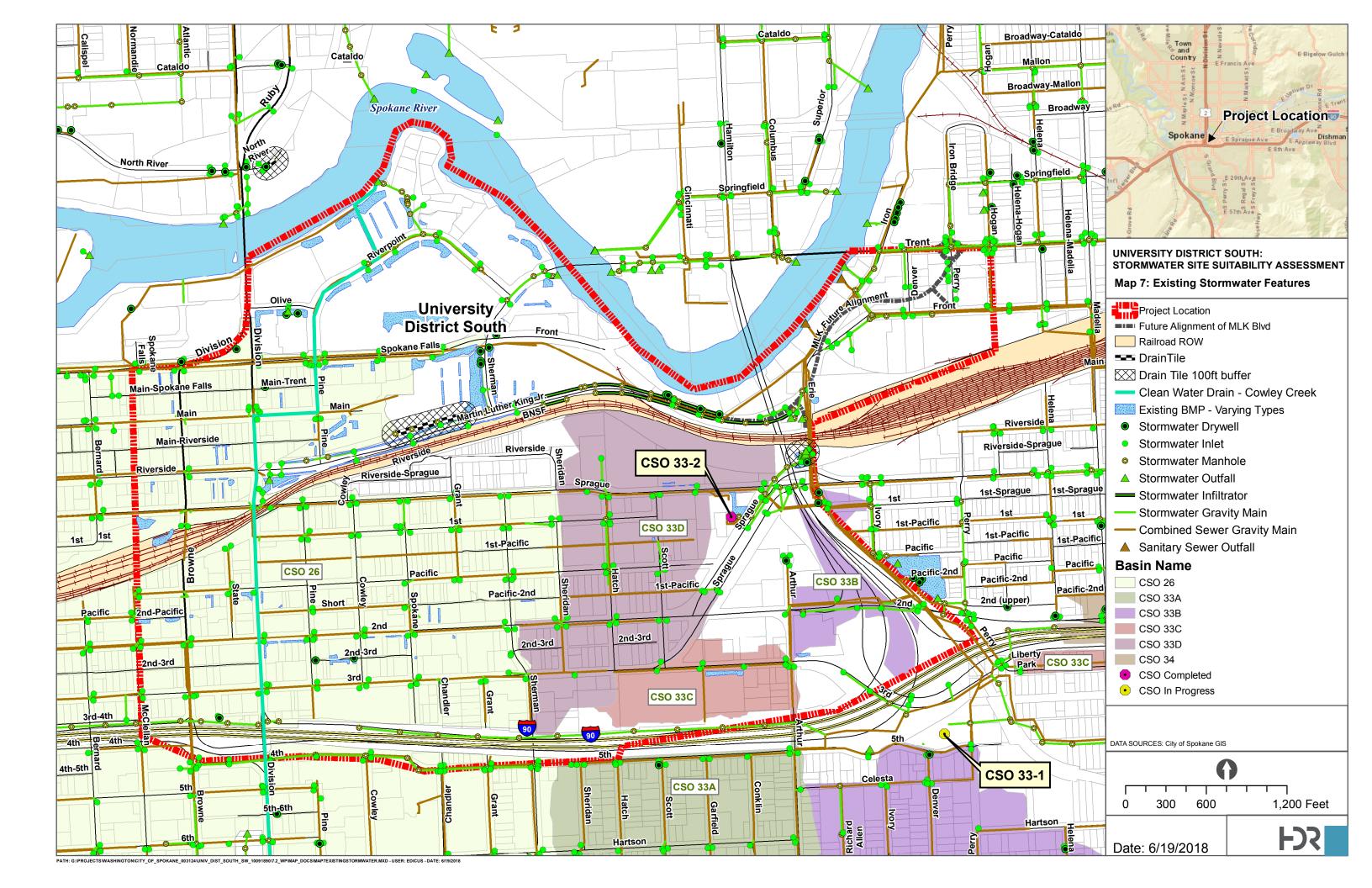


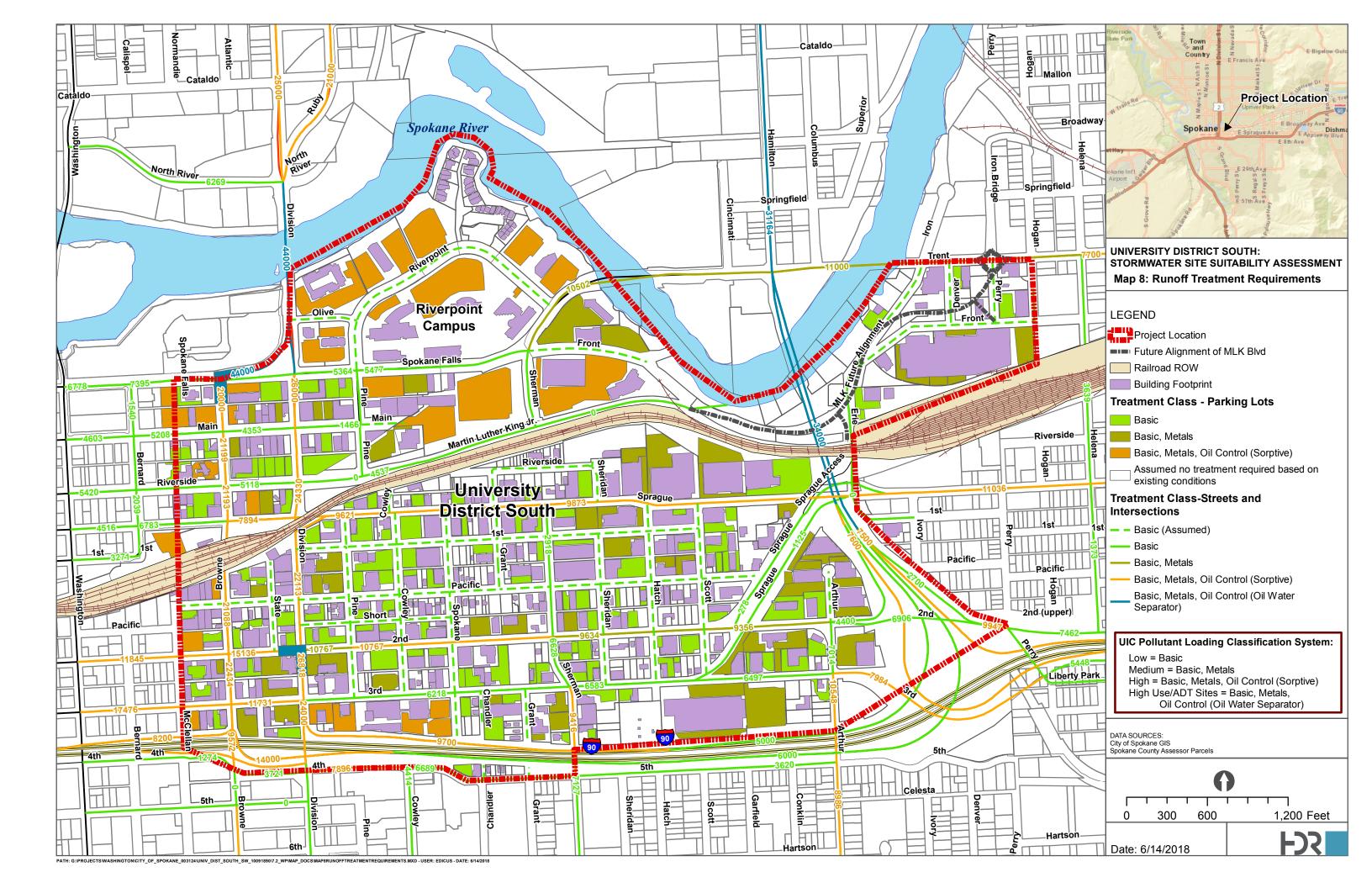


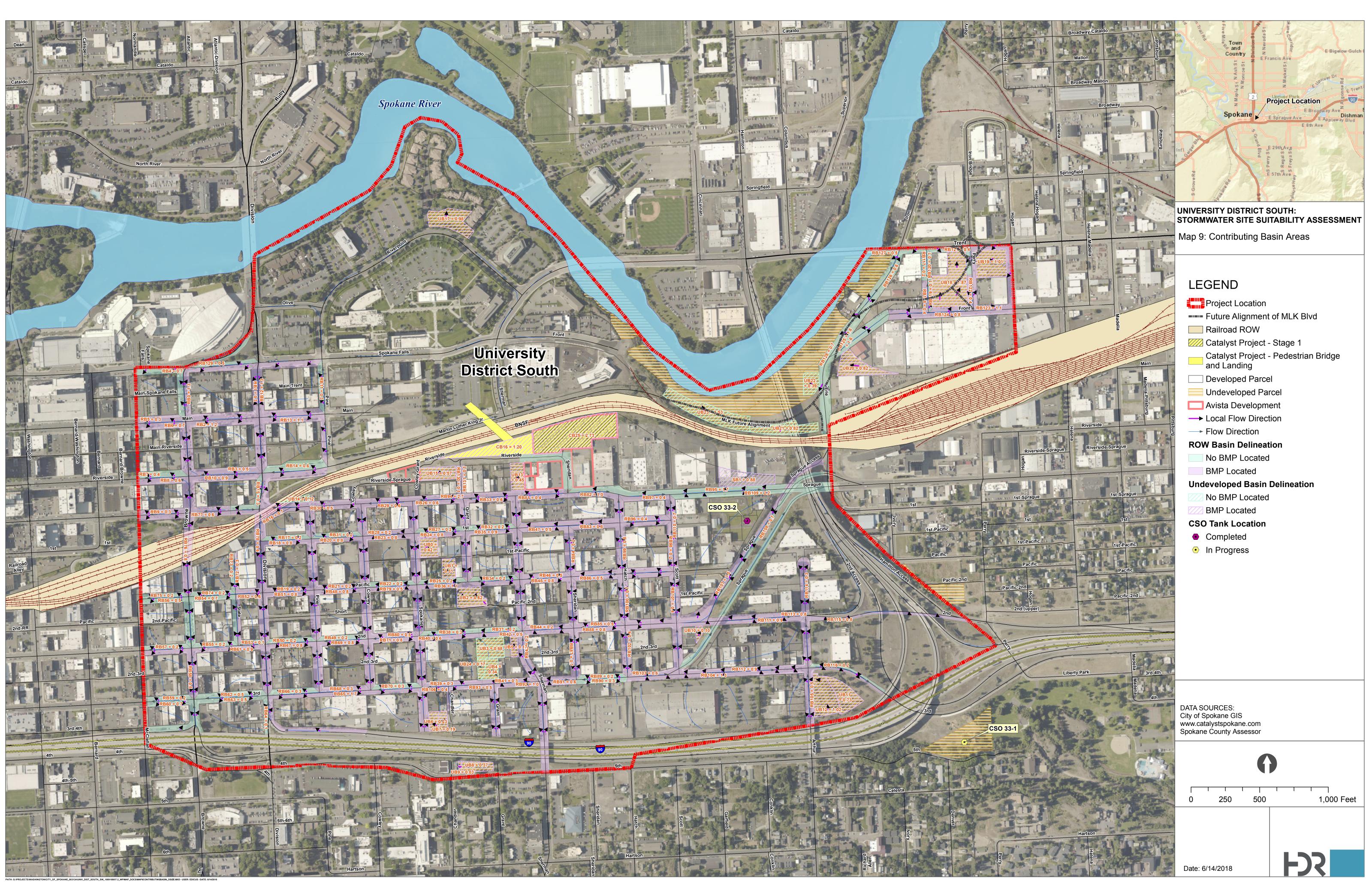




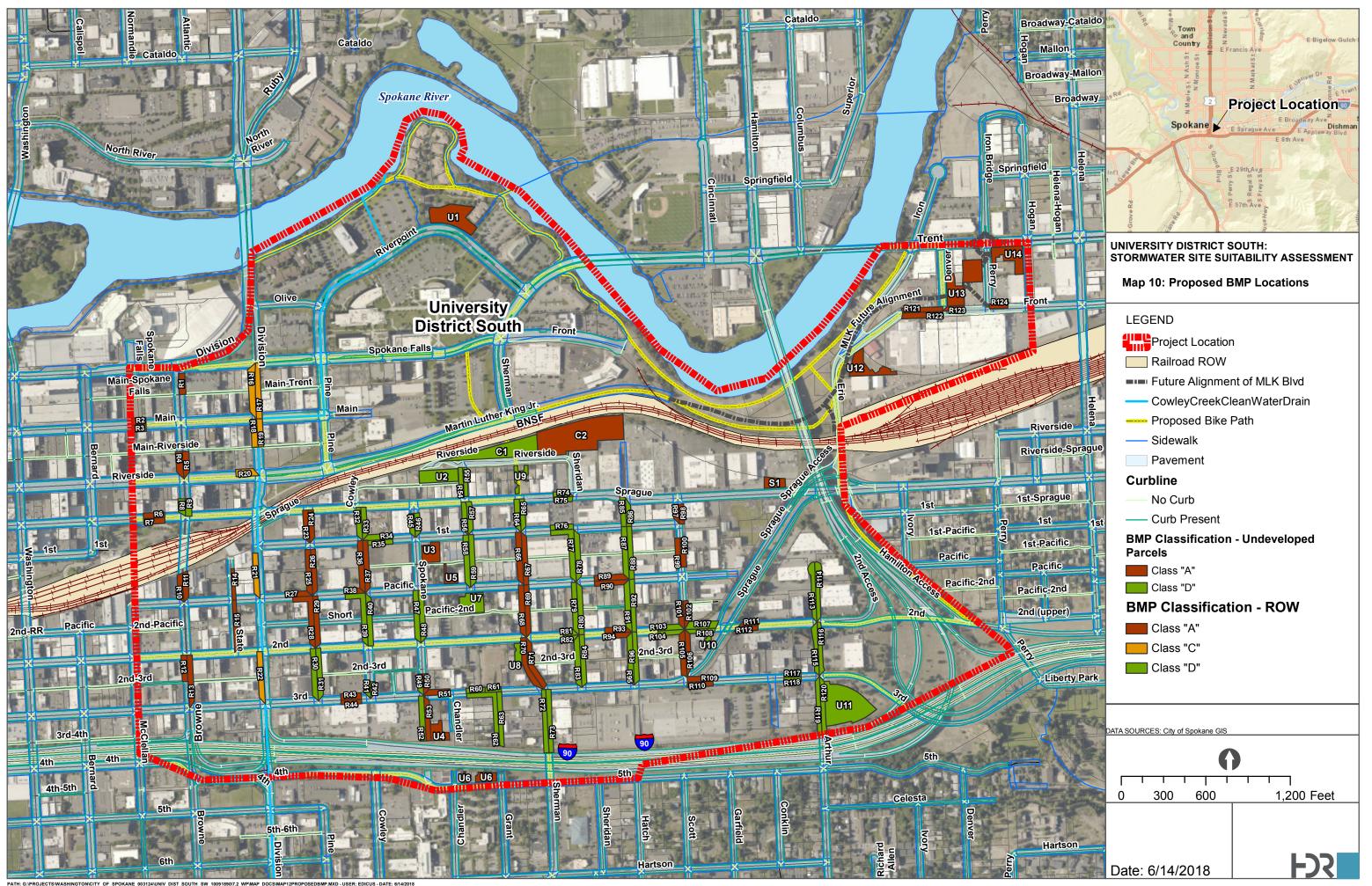








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0	250	500	1,000 Feet
Dete: 6	/14/2018		



APPENDIX B. MAPS SOURCE OF INFORMATION

Map #	Map Title	Source
1	Project Location Map	ESRI Basemap Service; http://www.spokaneudistrict.org/map
2	Depth to Groundwater	City of Spokane GIS; City of Spokane Stormwater GeoReports; Infiltration Research for Downtown Area; Soil Web Survey
3	Depth to Impermeable Layer	City of Spokane GIS; City of Spokane Stormwater GeoReports; Infiltration Research for Downtown Area; Soil Web Survey
4	Saturated Hydraulic Conductivity	City of Spokane GIS; City of Spokane Stormwater GeoReports; Infiltration Research for Downtown Area
5	Land Areas	Spokane County Assessor; City of Spokane GIS; <u>www.catalystspokane.com</u> ; Spokane Historic Preservation Office; City of Spokane GIS; ESRI Imagery Service
6	Locations Not Suitable for Infiltration BMPs	City of Spokane GIS; WA Department of Ecology; Spokane Regional Stormwater Manual; Ecology UIC Manual; and the Ecology Stormwater Management Manual for Eastern Washington
7	Existing Stormwater Features	City of Spokane GIS; Google Earth; and observations during site visit
8	Runoff Treatment Requirements	City of Spokane GIS; Spokane Regional Stormwater Manual; Ecology UIC Manual; and the Ecology Stormwater Management Manual for Eastern Washington
9	Undeveloped Land Areas	Map deleted; incorporated information into Map 5
10	UIC Requirements	Map deleted; incorporated information into Map 8
11	Contributing Basin Areas	Spokane County Assessor; City of Spokane GIS; www.catalystspokane.com
12	Proposed BMP Locations	City of Spokane GIS

Report	Project Number	Bore Date	BoreID	Location	Depth to Ground Water	Depth to Impermeable Layer (Basalt)	SoilType	Reference	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay	%Fines	Hydraulic Conductivity (in/hr)	Soil Classification	Reference
	H14573	01/16/2014	B-1	821 E 3RD AVE WEST END	NONE OBSERVED	SEE B-4 UNDETERMINED		Figure 4-1												
s	H14573	01/16/2014	B-2	922 E 3RD AVE, WEST END	>5/end of bore	3	Crushed gravel fill to 1ft. 1-2ft Silty Sand with Gravel. 2-3ft Silt	Figure 4-2, page 12												
ssociate	H14573	01/16/2018	B-3	922 E 3RD AVE EAST END	NONE OBSERVED	SEE B-2 UNDETERMINED		Figure 4-3 pg 13												
er and As	H14573	01/15/2014	B-4	803 E 3RD AVE NORTH SIDE OF SPRAGUE	>13/end of bore	8.5	Gravel with sand fill to 1ft. 1-3.5 Silty Sand with Gravel, coarse to fine, subrounded. 3.5-4.5ft boulder. 4.5-8.5 silt. 8.5 to >13ft basalt	figure 4-4, pg 14												
Buding	H14573	01/16/2014	B-5	810 E 2ND AVE NORTH SIDE OF SPRAGUE	N	AT SURFACE														
33-1	H14573	01/16/2018	B-6	SOUTH SIDE OF 3RD AVE NORTH OF 190 OVERPASS	N	AT SURFACE														
) Basin	H14573	01/15/2018	B-7	1214 E PACIFIC AVE	10	200 gal at 49 gal/minute, drained >20FT/end of boring in 35 seconds.	0 TO 10FT SILT (fill). 10 TO 20FT Gravel with Sand fine subrounded	Fig 4-7, pg 17												
CSC						200 gal at 44 gal/minute, drained	0 to 1.5 silty sand w/gravel and debris (fill). 1.5 to 7.5 Gravel with sand, silt, debris (asphalt fragments) coarse to fine, subrounded. 7.5 to 16 silt, rapid dilatency (volcanic ash) (fill). 16 to 23.5 Gravel with													
	H14573	01/15/2014	B-8	1231 E 2ND AVE	16	>23.5FT/end of boring in 50 seconds.	Sand, coarse to fine, subrounded	Fig 4-8, pg 18												
3rd at Cedar and McClellan	\$09306	10/20/2009	TB-7	3rd Ave east of Bernard on east bound sidewalk	8.5	>20FT/end of boring	0-7ft fill:gravel, some sand, occasional cobbles (subrounded) some small silt. 7-8.5 boulder (basaltic) and gravel. 8.5 to 12ft gravel, some sand, small amount of cobbles (subrounded) trace silt, occasional boulders. 12 to 17ft gravel, some sand (medium to coarse, subangular to subrounded) small amount silt, trace cobbles, occasional boulders. 17 to >20ft clayey gravel (coarse, poorly graded, angular) some cobbles, occasional boulders.	Fig 4-2, pg 12	38.0	26.1	0.1 n/	a	53.0	34.0	13.0	13.0			Silty Gravel with Sand(GM)	Fig 5, pg 13
											,	-								
	H14572	1/7/2014	B-1510	SW corner of Erie St and 1st St	16	>20FT/end of boring	0-6ft gravel with sand, silt, and cobbles, subrounded to angular (fill). 6 - 11ft Gravel with sand, cobbles, silt and clay subrounded. 11- >20ft Gravel with sand and cobbles, subrounded	Fig 3-10, pg 11	38.0	8.8	2.7	0.6	56.3	37.7	6.0	6.0	6.0	31	Well-graded gravel with silty clay and sand (GW-GC)	Table 1, pg 3; Figure 5 pg 16
/ater				E side of Erie St, S of Sprague			0-3ft silty gravel with sand and cobbles, angular to subrounded(fill). 3-4ft gravel with sand, silt and cobbles, angular to subrounded (possible fill) 4->17ft Gravel with sand and cobbles, well graded,												Well-graded gravel	Table 1, pg 3;
ormw	H14572	1/6/2014	B-1511	overpass	15	>17ft/end of boring	subrounded 0-3.5ft Gravel with sand, silt, and cobbles, poorly graded,	Fig 3-11, pg 12	38.0	7.2	2.8	0.8	55.3	40.8	3.9	3.9	3.9	70	with sand (GW)	Figure 5 pg 16
ILK St				E side of Erie St, N of Sprague			subrounded to angular, (possible fill). 3.5 to >20ft Gravel with sand												Poorly Graded gravel	Table 1, pg 3;
to	H14572	1/6/2014	B-1512	overpass	16	>20FT/end of boring	and cobbles, trace silt, poorly graded (coarse), subrounded 0-3ft gravel with sand, silt, and cobbles subrounded to angular (fill). 3	Fig 3-12, pg 13 3-	76.2	10.5	3.4	1.3	62.1	. 34.3	3.4	3.4	3.4	91	with sand (GP)	Figure 5 pg 16
ie from 1st				NW corner of Erie St and Sprague			5ft gravel with sand, silt, and cobbles, subrounded, (possible fill). 5- 8.5ft gravel with sand, silt and cobbles, poorly graded (coarse) subrounded. 8.5-16 gravel with sand and cobbles, trace silt, poorly												Sample depth 6.5ft Silty sand with gravel	Table 1, pg 3;
EL	H14572	1/6/2014	B-1513	Way	15	>16ft/end of bore	graded (coarse) subrounded 0-3ft gravel with sand, silt, and cobbles subrounded to angular (fill). 3	Fig 3-13, pg 14	25.4	4.3	1.2		37.3	42.7	20.0	20.0	20.0	3.25	(SM)	Figure 5 pg 16
			2 4542	NW corner of Erie St and Sprague			5ft gravel with sand, silt, and cobbles, subrounded, (possible fill). 5- 8.5ft gravel with sand, silt and cobbles, poorly graded (coarse) subrounded. 8.5-16 gravel with sand and cobbles, trace silt, poorly	5. 2.42	20.0				27.0						Sample depth 9.0 ft Poorly graded sand with silty clay and	Table 1, pg 3;
	H14572	1/6/2014	B-1513	Way	15	>16ft/end of bore	graded (coarse) subrounded 6-8inches topsoil -black silty with trace sand and organic matter (roots) (medium stiff, moist). 6in to 3.5ft brown silt with sand and	Fig 3-13, pg 14	38.0	4.3	1.5	0.1	37.3	53.4	9.3	9.3	9.3	14	gravel (SP-SC)	Figure 5 pg 16
		9/12/2011	N-1	North landing	>14.1/end of bore	3.5	occasional fine gravel (medium stiff, moist)	Fig A-3, pg 39											Silty fine gravel with	
ge		9/12/2011	N-2	North landing	>18.9/end of bore	9.5	see Soil Classification	Fig A-4, pg 40					See	e Figure A	A-10, pg 47	for char	t		sand Silty fine to coarse	Fig A-10, pg 47
t Brid		9/12/2011	N-3	North landing	>13.8/end of bore	4.5	see Soil Classification 0-1ft brown silty fine to coarse sand with occasional gravel (medium	Fig A-5, pg 41						I					gravel with sand	Fig A-10, pg 47
U-Distric		9/9/2011	P-1	Midspan pier	>16.9/end of bore	3	dense, moist). 1-3ft black silty fine to coarse gravel with sand (medium dense, moist)	Fig A-6, pg 42											Silty fine to coarse	
		9/28/2011	S-1	South landing	>33.6/end of bore	18.5	see Soil Classification	Fig A-7, pg 43,44											sand with gravel Silty fine to coarse	Fig A-11, pg 49
		9/28/2011	S-2	South landing	>17/end of bore	7	see Soil Classification	Fig A-8, pg 45					See	e Figure A	-11, pg 49	for char	t		gravel with sand Silty fine gravel with	Fig A-11, pg 49
		9/28/2011	S-3	South landing	>16.1/end of bore	2.5	0-2.5ft Brown silty fine gravel with sand. >2.5ft basalt	Fig A-9, pg 46											sand	Fig A-11, pg 49
	H15242 H15242	5/6/2015 5/6/2015	1	Central area of site north area of site	15 15	>21/end of bore >16ft/end of bore		Fig 4-1, pg 13 Fig 4-2, pg 14												
c	H15242 H15242	5/6/2015	3	South area of site	16	>19ft/end of bore		Fig 4-2, pg 14 Fig 4-3, pg 15							face condit itable for i					
on Basir	H15242	5/14/2015	4	Center area of site, NW side of N Erie st	14	>25/end of bore		Fig 4-4, pg 16	76.8	18.4	5.1	0.7	70.0			3.6	3.6	82	Well Graded gravel with sand (GW)	Table 1, pg 3; Figure 6 pg 20
nu.	H15242	5/14/2015	5	north area of site, adjacent to NW side of N Erie St	12.5	>26/end of bore		Fig 4-5, pg 17	76.8	16.4	4.8	0.6	69.7	24.6	5.3	5.3	5.3	40		Table 1, pg 3; Figure 6 pg 20
10	H15242	5/14/2015	6	south area of site, adjacent to NW side of N Erie St	16.4	>26.5/end of bore		Fig 4-6, pg 18	76.8	13.0	3.4	0.5	63.8	31.1	4.7	4.7	4.7	50	Well Graded gravel with sand (GW)	Table 1, pg 3; Figure 6 pg 20
GCR nditions	S13254	9/6/2013	B-1	south of the intersection of Erie St and Front Ave	15	>31.5/end of bore		Fig 4-1, pg 17	4.8	0.1			0.0				51.2	na	Well-Gradad gravel	Table 1 ng 34:
ical Con	S13254	9/9/2013	B-2	Perry St between Front and Trent	15	>21/end of bore		Fig 4-2, pg 18	37.5	17.2	9.5	2.9	86.0				0.7	1700	Well-Graded gravel (GW)	Table 1, pg 34; Figure 6-1 Table 1, pg 34;
MLK Pha sotechnic Re	S13254	9/9/2013	B-3	Denver St at Front Ave NE of the intersection of Erie St	20	>41/end of bore		Fig 4-3, pg 19	75.0	19.0	5.6	0.1	73.0)			5.5	37	Well-Graded gravel	Figure 6-1 Table 1, pg 34;
Geo A	S13254	9/10/2013	B-4	and Front Ave	22	>26/end of bore		Fig 4-4, pg 20	37.5	15.1	6.7	1.5	79.0)			1.9	270	with sand (GW)	Figure 6-1

Report	Project Number	Bore Date	BorelD	Location	Depth to Ground Water	Depth to Impermeable Layer (Basalt)	Infiltration Notes	SoilType	Reference		D100	D60	D30	D10	%Gravel	%Sand	%Silt %Clay	%Fines	Hydraulic Conductivity (in/hr)	Soil Classification	Reference
Ę	S13254	9/10/2013	B-5/ sampling depth 9.5	NW of the railroad bridge over Erie st	16	>26/end of bore			Fig 4-5, pg 21		1.2	0.1						52.0	na	Sandy silty clay (CL- ML)	Depth 9.5, figure 6-1; table 1 pg 34
tions Repo	S13254	9/10/2013	B-5/ sampling depth 14.5		16	>26/end of bore			Fig 4-5, pg 21		75.0	15.1	6.8	3.2	84.0)		0.5	3300	Poorly graded gravel with sand (GP)	Depth 14.5, figure 6-2 ; table 1 pg 34
Condi	S13254	9/11/2013	B-6	W of Hamilton bridge, SE corner parcel 35174.0606	17	>31/end of bore			Fig 4-6 pg 22		75.0	8.6	2.2	0.1	57.0	D					Figure 6-2
hnical	S13254	9/12/2013	B-7	Near river, south center of parcel 35174.0606	21	>51/end of bore			Fig 4-7, pg 23												
eotec	S13254	9/12/2013	B-8	south center edge of parcel 35174.0009	>20/end of bore	>20/end of bore			Figure 4-8, pg 24												
- GCR G	S13254	9/12/2013	B-9	30ft east of railroad tunnel entrance east end	No Free Groundwater Observed	>20/end of bore			Fig 4-9, pg 25												
Phase II	515254	5/12/2015			No Free Groundwater				115 4 5, pg 25												
MLK	\$13254	9/12/2013	B-10	SE edge of parcel 35175.0034	Observed No Free	4			Fig 4-10												
	S13254	9/16/2013	B-11	50ft east of existing MLK westbound east of Sherman	Groundwater Observed	6			Fig 4-11												
herman, 336 S Seotech		3/25/2003	TP-1	336 S Sherman	NONE OBSERVED	>13/end of bore		Silty sand and silty gravel	pg 28												
<u> </u>		3/25/2003	TP-2	336 S Sherman	NONE OBSERVED	12.5		Silty sand and silty gravel	pg 29												
cal and Health Bldg Geotech	0403-028-00	12/14/2009 12/14/2009	B-1 B-2		>23/end of bore 7.5	11 °		Silty fine to medium sand with gravel (fill) Silty fine to coarse sand with fine gravel and debris (fill)	A-3, pg 32 A-4, pg 33												
d F Ge	0403-028-00	12/14/2009	B-2 B-3		>28/end of bore	18		Silty medium to coarse sand with gravel (fill)	A-4, pg 33 A-5, pg 34									-	ł		
al al 3ldg	0403-028-00	12/15/2009	B-3 B-4		>29/end of bore	18		Silty fine to coarse sand with fine gravel and debris (fill)	A-6, pg 35									-			
edic. Ces E	0403-028-00	12/15/2009	B-4 B-5		>27.5/end of bore	17.5		Silty fine to medium sand with gravel (fill)	A-7, pg 36									-	ł		
enc	0403-028-00	12/15/2009	B-5 B-6		20	22		Silty fine to medium sand with gravel (fill)	A-8, pg 37									-	ł		
Bic	0403-028-00	12/13/2009	B-0 B-7		>15/end of bore	5	-	Silty fine to medium sand with gravel (fill)	A-9, pg 38									-		-	
	S03177	7/28/2004	B-7 B-1	SW of Erie and RR crossing	20	>85/end of bore		Gravel, some silt or sand	Fig 4-1, pg 8									_			
Erie Street	S03177	7/28/2004	B-1 B-2	SE of Erie and RR crossing	20	>90/end of bore	-	Gravel, some sand	Fig 4-2, pg 16									-		-	
	303177	7/10/2001	B-1		>8.5/end of bore	8.5	See percolation test Table A-1, pg 13	Basalt shot rock with boulders (fill)	Fig A-3, pg 16												
STM096 Trent Ave directly across from Riverpoint		7/10/2001	B-2		>8.5/end of bore	8.5	See percolation test Table A-2, pg 13	Fine to coarse sand with silt and gravel and boulders(fill)	Fig A-4, pg 17												
A A a		7/10/2001	B-3		>5/end of bore	5		Fine to coarse sand with silt and gravel (fill)	Fig A-5, pg 18												
SE Blvd 29th and Sherman Geotech Report		10/31/2005	B-1	Sherman St northbound lane 150ft S of 3rd ave Sherman St northbound lane 75ft	NONE OBSERVED	1.5		pavement, gravel, impermeable rock at 1.5ft	Fig A-2, pg 21												
SE 29t She Ge Ge		10/31/2005	B-2	S of 5th Ave	NONE OBSERVED	1.5		pavement, gravel, impermeable rock at 1.5ft	Fig A-3, pg 22									_			
4		8/10/1984	ROP-21		>8	8		basalt rubble fill to 4ft, sandy gravel to 8	pg 46	Used test pit data		I						+	ļ		
ech		8/10/1984	ROP-20		4.5	>7.5/end of bore		basalt rubble fill to 3ft, sandy gravel to 6.5	pg 45	only, map for other											
Riverp		8/10/1984	ROP-22		>2	2		Silty sand and gravel	pg 47	bore points is											
Gr Gr		8/10/1984	ROP-27		>3	3		gravelly sand fill	pg 52	unreadable.											
		8/8/1984	ROP-4		>2	2		gravelly sand fill	pg 29												
atah to y Park nation ouild			A-73-76																		
l-90 Lata Liberty Illumina Rebui			A-74-67																		

APPENDIX C. BMP SIZING SUMMARY

This section provides a summary of the methods and assumptions used to size the BMPs for this study. The BMPs were sized using a single event model and the SCS Type IA rainfall event *(except where noted).* All contributing basin areas were assumed to be impervious with a Curve Number equal to 98. Specific details about the assumptions made to design each BMP are described in the subsequent sections.

The BMPs that were sized for this study include:

- Bioretention and Bioinfiltration Ponds in a Vault without an Overflow
- Bioretention and Bio-Infiltration Ponds in a Vault with an Overflow
- Infiltration Trench
- Permeable Pavement
- Pave Drain (or equivalent other)
- Silva Cell (or equivalent other)
- Modular Wetland (or equivalent other)
- Cistern

Bioretention and Bio-Infiltration Vault Ponds without Overflow

Bioretention and bio-infiltration vault ponds without an overflow were sized to infiltrate the entire volume of runoff contributing to the basin area. The assumptions used to size the ponds are outlined in Table C1. The ponds were sized using a combination of infiltration rates and contributing basin areas. The respective pond base area (footprint) is summarized in Table C2 and Figure C1.

Table C1. Bioretention & Bio-Infiltration Vault Pond Sizing Assumptions

BMP Design Variables	Design Assumptions
BMP Ponding Depth vs. Storm Event	 ≤6-inches, 6 month 24 hour event ~12-inches, 10 year 24 hour event Designed to not overtop 100-year 24-hour event
Media Depth	18 inches
Porosity of Media	40%
BMP Length	Variable
BMP Width	Variable
BMP Depth (max ponding depth above media)	18 inch
Side Slopes	0%, vaults wall are vertical
Overflow Depth	None

Table C2. Bioretention & Bio-Infiltration Vault Pond Summary of Sizing

	Vault Bioretention & Bio-infiltration Pond without Overflow					
	Base Area for 6 inch Maximum Ponding Depth (sq.ft.) with No Side Slopes					
Basin Area	0.10 AC	0.25 AC	0.50 AC	0.75 AC	1.0 AC	1.5 AC
Infiltration			Pond Base	Aroa (caft)	•	
Rate (In/hr)		Pond Base Area (sqft)				
0	370	925	1850	2775	3700	5550
0.25	270	675	1350	2025	2700	4050
0.5	210	525	1050	1575	2100	3150
1.00	153	383	765	1148	1530	2295
1.50	124	310	620	930	1240	1860
3.00	87	218	435	653	870	1305

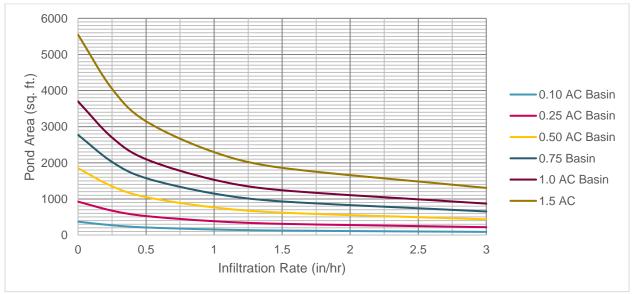


Figure C1. Vault Bioretention & Bio-Infiltration Pond Summary of Sizing

Bioretention and Bio-Infiltration Vault Ponds with Overflow

Bioretention and bio-infiltration vault ponds were sized with an overflow to receive runoff from the contributing basin. The assumptions used to size the ponds are outlined in the Table C3. The ponds were sized using a combination of infiltration rates and contributing basin areas. The respective pond base area (footprint) is summarized in Table C4 and Figure C2.

Table 03. Dioretention & Dio-Ininitiation Valit Fond Olzing Assumptions			
BMP Design Variables	Design Assumptions		
Design Pond Depth vs. Storm Event	≤6-inches, 6 month 24 hour event		
Media Depth	18 inches		
Porosity of Media	40%		
BMP Length	Variable		
BMP Width	Variable		
BMP Depth (max ponding depth above media)	18 inch		
Side Slopes	0%, vaults wall are vertical		
Overflow Depth	≥6 inches		
Note: A cistern or other detention is needed to retain the 10 year 24 hour storm on site.			

Table C3. Bioretention & Bio-Infiltration Vault Pond Sizing Assumptions

Table C4. Blore	able C4. Bioretention & Bio-Inflitration valit Pond Summary of Sizing					
	Vault Bioretention & Bio-infiltration Pond with Overflow					
	Base Area for 6 inch Maximum Ponding Depth (sq.ft.) with No Side Slopes					
Basin Area	0.10 AC	0.25 AC	0.50 AC	0.75 AC	1.0 AC	1.5 AC
Infiltration			Dand Daga	Area (agft)		
Rate (In/hr)			Pond Base	Area (sqit)		
0	250	625	1250	1875	2500	3750
0.25	150	375	750	1125	1500	2250
0.5	108	270	540	810	1080	1620
1.00	76	190	380	570	760	1140
1.50	62	155	310	465	620	930
3.00	43	108	215	323	430	650

Table C4. Bioretention & Bio-Infiltration Vault Pond Summary of Sizing

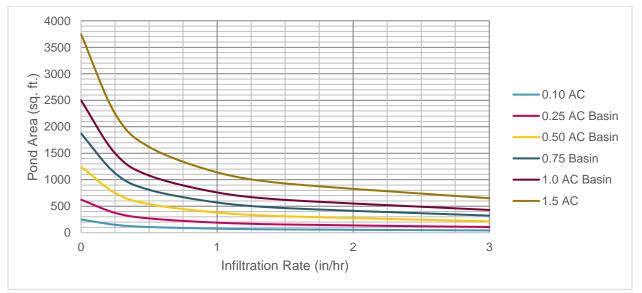


Figure C2. Vault Bioretention & Bio-Infiltration Pond Summary of Sizing

Infiltration Trench

Infiltration trenches are long, narrow, stone-filled trench used for collection, temporary storage, and infiltration of stormwater runoff (Figure C3). This BMP was sized to infiltrate the entire volume of runoff contributing to the basin area. A vegetated filter strip (VFS) should be located upstream of the trench to provide pre-treatment for 30% of the of runoff volume which reduces the maintenance cycle of the BMP. The VFS should be located parallel to and the same length as the infiltration trench. The assumptions used to size the infiltration trench and VFS are outlined in Table C5 and Table C6. The infiltration trench was sized using a combination of infiltration rates and contributing basin areas. The respective BMP base area (footprint) is summarized in Table C7 and Figure C4.

BMP Design Variables	Design Assumptions		
Design Ponding Depth vs. Storm Event	24-inches, 10 year 24 hour event Designed to not overtop 100-year 24-hour event		
Freeboard Above Design Ponding Depth	12 inches		
Media (Stone) Depth	18 inches		
Void Ratio (WSDOT, 2014)	35%		
BMP Length	Variable		
BMP Width	2 feet		
BMP Depth	3 feet		

Table C5. Infiltration Trench Sizing Assumptions

Table C6. Vegetated Filter Strip (VFS) Sizing Assumptions

VFS Design Criteria	<i>Narrow Area VFS</i> (Spokane County, City of Spokane, and City of Spokane Valley, 2008)
Assumed Maximum Width of Contributing Impervious Area	30 feet
Pretreatment	30% of PGIS
Width of Impervious Area Treated	10 feet
BMP Width Required	4 feet
BMP Length	Match Infiltration Trench

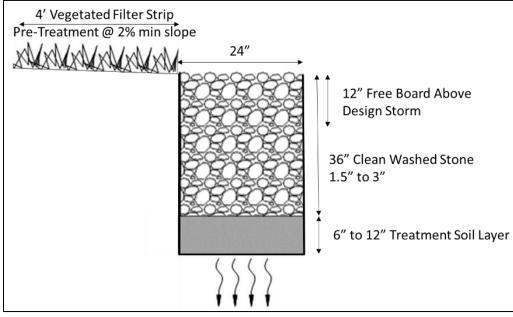


Figure C3. Infiltration Trench General Schematic

Table C7. Infiltration Trench Summary of Sizing

	Infiltration Trench					
Bas	Base Area for 24 inch Maximum Ponding Depth (sq.ft.) plus 12-inch freeboard				d	
Basin Area	0.10 AC	0.25 AC	0.50 AC	0.75 AC	1.0 AC	1.5 AC
Infiltration Rate (In/hr)		Infiltration Trench Base Area (sqft)				
0	920	2310	4600	6900	9200	13800
0.25	564	1402	2820	4230	5640	8460
0.5	408	1020	2040	3060	4080	6120
1.00	282	704	1410	2115	2820	4230
1.50	225	564	1125	1688	2250	3375
3.00	154	385	770	1155	1540	2310

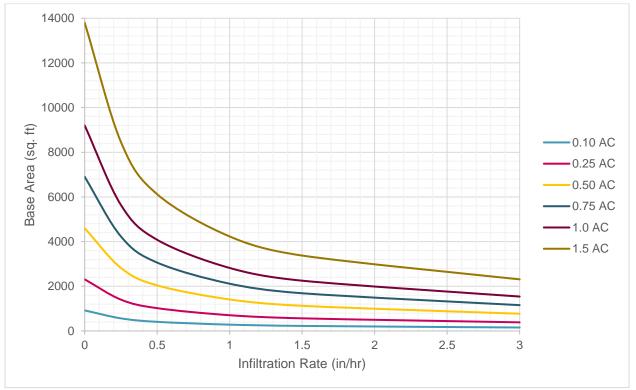


Figure C4. Infiltration Trench Summary of Sizing

Permeable Pavement

Permeable pavement surfaces are an open graded pavement mix placed in a manner that results in a high degree of interstitial spaces within the cemented aggregate, which allow runoff to infiltrate through the pavement and into the sub-soils. Aggregate below the pavement provides temporary storage for runoff before infiltration into the sub-soils. This BMP was sized to infiltrate the entire volume of runoff from the contributing basin area or convey the volume of runoff to a storm or combined sewer. The assumptions used to size the permeable pavement are outlined in Table C8. This BMP was sized using a combination of infiltration rates and contributing basin areas. The respective base area (footprint) is summarized in Table C9 and Figure C5.

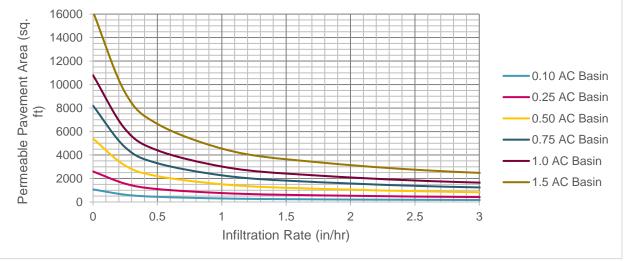
Table C8. Permeable Pavement Sizing Assumptions

BMP Design Variables	Design Assumptions		
Design Ponding Depth vs. Storm Event	24-inches, 10 year 24 hour event		
Allowable Ponding Depth	24 inch		
Design Storm Event and Type	SCS Type IA 10 year 24-hour		
Void Ratio of Aggregate	30%		
Aggregate Depth Below Pavement	2 feet		
BMP Length x Width	Variable x Variable		

Table C9. Permeable Pavement Summary of Sizing

Permeable Pa	Permeable Pavement Base Area for 24 inch Max Ponding Depth (sqft.) for 10-year 24-hour storm				hour storm	
Basin Area	0.10 AC	0.25 AC	0.50 AC	0.75 AC	1.0 AC	1.5 AC
Infiltration Rate (In/hr)		Permeable Pavement Base Area (sqft)				
0	920	2310	4600	6900	9200	13800
0.25	564	1402	2820	4230	5640	8460
0.50	408	1020	2040	3060	4080	6120
1.00	282	704	1410	2115	2820	4230
1.50	225	564	1125	1688	2250	3375
3.00	154	385	770	1155	1540	2310
Mate D						

Note: Runoff treatment credit (basic, metals) is only provided if a layer of treatment soil is placed below the BMP (and below underdrain) or the UIC vadose zone soil treatment capacity requirements are met





Pave Drain

Pave Drain (or equivalent system) is a proprietary permeable concrete block system which allows runoff to infiltrate into the ground through the concrete blocks. Pave Drain is designed with an arch under the block to increase the temporary storage area for runoff. The sizing for this BMP assumes (Table C10) that the entire volume of runoff from the contributing basin area will infiltrate into the ground or be conveyed to a storm or combined sewer. The footprint of the system was sized for the volume of the 10-year 24-hour storm event. Table C11 and Figure C6 display the sizing for a combinations of infiltration rates and contributing basin areas.

Table C10. Pave Drain Sizing Assumptions

BMP Design Variables	Design Assumptions		
Design Ponding Depth vs. Storm Event	Depth of stone plus arch; 10-year 24-hour event		
Arch Volume	0.095 cft per paver		
Depth of #2 Clean Stone Below Pave Drain	24 inches		
Void Ratio of #2 Clean Stone	40%		
BMP Length	Variable		
BMP Width	Variable		
Note: Runoff treatment credit (basic, metals) is only provided if a layer of treatment soil is placed below			

the BMP (and below underdrain) or the UIC vadose zone soil treatment capacity requirements are met

Table C11. Pave Drain Summary of Sizing

PaveDrain Base Area for 24 inch Max Ponding Depth (sq.ft.) for 10 year 24 hour						
Basin Area	0.10 AC	0.25 AC	0.50 AC	0.75 AC	1.0 AC	1.5 AC
Infiltration Rate (In/hr)	Permeable Pavement Base Area (sqft)					
0	800	2000	4000	6000	8000	12000
0.25	460	1150	2300	3450	4600	6900
0.5	320	320 800 1600 2400 3200 4800				
1	225	563	1125	1688	2250	3375
1.5	185	463	925	1388	1850	2775
3	130	325	650	975	1300	1950

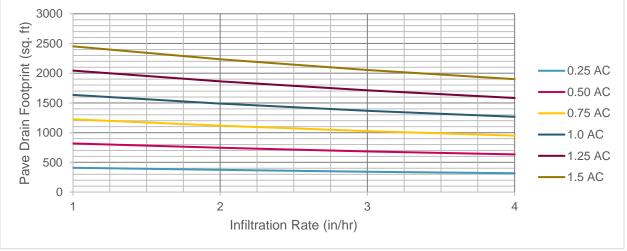


Figure C7. Pave Drain Summary of Sizing

Silva Cell

Silva Cells (or equivalent system) are modular, proprietary products which can be sized to provide storage for infiltration or detention, or to convey runoff to a storm or combined sewer. The Silva Cells were sized following the same methods as are used to design bioretention ponds. In this report, the Silva cells were designed to retain and infiltrate the 10-year, 24 hour storm on-site. The assumptions used to size the Silva Cell are outlined in Table C12 below. Table C13 and Figure 8 summarize the BMP base area (footprint) of different Silva Cell configurations for various basin areas and infiltration rates.

Table C12. Silva Cell Sizing Assumptions

Design Assumptions
12 inch, 10 year 24-hour event
18 inches
40%
Variable
Variable
3X Configuration (43 inches)

Table C13. Silva Cell Summary of Sizing

Silva Cell without Overflow											
Footprint for 12 inch Maximum Ponding Depth (sq.ft.) and 3X Silva Cell Size											
Basin Area (AC)	0.1	0.25	0.5	0.75	1	1.5					
Infiltration Rate (in/hr)			Silva Cell F	ootprint (sq. ft))						
0	404	1010	2020	3030	4040	6060					
0.25	270	675	1350	2025	2700	4050					
0.5	204	510	1020	1530	2040	3060					
1	146	365	730	1095	1460	2190					
1.5	120	300	600	900	1200	1800					
3	58	145	290	435	580	870					

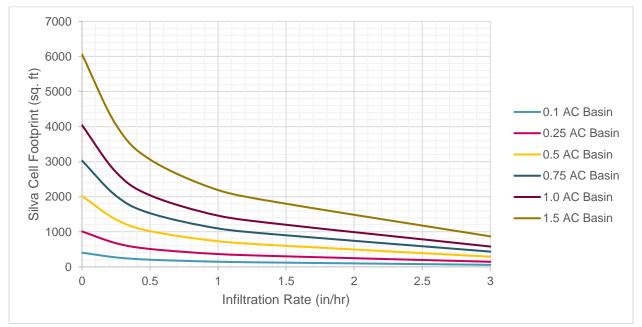


Figure C8. Silva Cell Summary of Sizing

Modular Wetland

Modular wetlands are bioretention systems that provide treatment and flow control. For this report, modular wetlands were sized with an overflow. Table C14 includes design assumptions provided to Bio Clean to obtain standard MWS Linear sizes and soil depth requirements needed for various basin areas. Table C15 and Figure C9 display the footprint of different modular wetland sizes for various basin areas.

Table C14. Modular Wetland Design Criteria

BMP Design Variables	Design Assumptions
Overflow Design Storm	>6 month 24 hour and up to 100 year 24 hour
verflow Design Storm odular Wetland Design Storm	6 month 24 hour
Note: A cistern or other detention is r	eeded to retain the 10 vear 24 hour storm on site.

Table C15. Modular Wetland Summary of Sizing

Modular Wetland with Overflow											
Fo	Footprint (sq. ft) Provided by Bio Clean for Various Basin Areas										
Basin Area (AC)	Footprint (ft ²)	Depth Required; Rim to Outlet IE (ft)	MWS Standard Size								
0.25	117	4.85	MWS 8 - 12								
0.5	189	5.1	MWS 8 - 20								
0.75	225	5.9	MWS 8 - 24								
1	225	7.0	MWS 8 - 24								
1.25	450	5.4	2 x MWS 8 - 24								
1.5	450	5.9	2 x MWS 8 - 24								

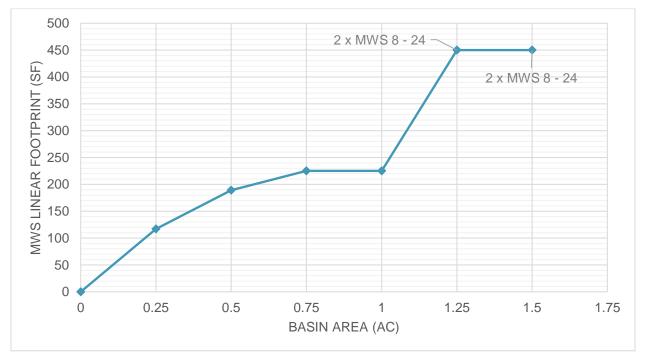


Figure C9. Modular Wetland Summary of Sizing

Cistern

Cisterns provides storage of stormwater runoff which is released to a storm or combined sewer system. Cisterns maybe designed with a discharge structure (e.g., weir or orifice) which will release flows a predetermined rate. Cisterns are available in standard manufacturing sizes ranging from 2,000 to 22,500 gallons. The assumptions used to size the cisterns are outlined in Table C16. Table C17 and Figure C10 displays the cistern sizes required for a basin area, as well as common standard cistern sizes for reference.

Table C16. Cistern_Sizing Assumptions

BMP Design Variables	Design Assumptions
Maximum Discharge Rate	0.05 cfs
Design Storm Retention Volume	10 year 24-hour

Table C17. Cistern Summary of Sizing

Cist	Cistern								
Maximum Discharge of 0.05 cfs									
for 10-year, 24-hour Storm Event									
Basin Area	Volume								
(AC)	(Gallons)								
0.1	48								
0.2	1,249								
0.25	2,162								
0.5	8,191								
0.75	16,240								
1	27,117								

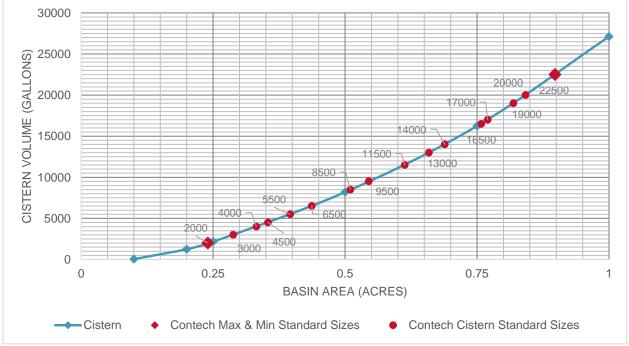


Figure C10. Cistern Sizing Summary: Basin Area vs. Cistern Volume

APPENDIX D. RECOMMENDED BMP SIZES AND LOCATIONS

BMP	BMP		Basin Area					Footprint		Footprint		Footprint
Name	Classification	Basin ID	(ac)	Classification Justification Basin Location	Runoff Treatment	Detention	Largest BMP Type	(sq. ft)	Second Largest BMP Type	(sq. ft)	Smallest BMP Type	(sq. ft)
				No evidence of depth to impermeable layer or								
R1	А	RBO	1.3	groundwater around or on site Intersection of Spokane Falls Blvd and Browne	Basic, metals, oil control (sorptive)	None	Permeable pavement	2925	PaveDrain	2405	ModWet	450
				No evidence of depth to impermeable layer or Main St between Bernard and Browne - north							Bioretention/Bioinfiltration	
R2	A	RB5	0.3	groundwater around or on site side of street	Basic	None	Permeable pavement	675	PaveDrain	555	Vault with Overflow	186
				No evidence of depth to impermeable layer or Main St between Bernard and Browne - south								
R3	A	RB6	0.7	groundwater around or on site side of street	Basic	None	Permeable pavement	1575	PaveDrain	1295	ModWet	225
				No evidence of depth to impermeable layer or Northwest intersection of Riverside and Brow	ie -							
R4	A	RB6	0.7	groundwater around or on site west half of street	Basic, metals, oil control (sorptive)	None	Permeable pavement	1575	PaveDrain	1295	ModWet	225
				No evidence of depth to impermeable layer or Northwest intersection of Riverside and Brow								
R5	A	RB2	1.2	groundwater around or on site east half of street	Basic, metals, oil control (sorptive)	None	Permeable pavement	2700	PaveDrain	2220	ModWet	450
				No evidence of depth to impermeable layer or Sprague Ave between Bernard and Brown -							Bioretention/Bioinfiltration	
R6	A	RB9	0.3	groundwater around or on site north half of street	Basic	None	Permeable pavement	675	PaveDrain	555	Vault with Overflow	186
57		5576		No evidence of depth to impermeable layer or Sprague Ave between Bernard and Brown -				4000		4.400		225
R7	A	RB76	0.8	groundwater around or on site south half of street	Basic	None	Permeable pavement	1800	PaveDrain	1480	ModWet	225
50	5	5540	0.0	Known depth to impermeable layer around site North side Browne Sprague intersection - wes			Permeable pavement with	2025	Deve Due in with we develop in	1005		225
R9	D	RB10	0.9	is not sufficient half of street Known depth to impermeable layer around site North side Browne Sprague intersection - east	Basic, metals, oil control (sorptive)	Cistern; 22,500 gallon	underdrain	2025	PaveDrain with underdrain	1665	ModWet	225
БО	D	000	0.0			Cistore 11 500 coller	Permeable pavement with	1250	Deve Drein with we developin	1110		225
R8	U	RB8	0.6	is not sufficient half of street No evidence of depth to impermeable layer or North side of Browne Pacific intersection - we	Basic, metals, oil control (sorptive)	Cistern; 11,500 gallon	underdrain	1350	PaveDrain with underdrain	1110	ModWet	225
D10		RB76	0.0	No evidence of depth to impermeable layer or groundwater around or on site half of street		Nono	Dermechle nevement	1900	DavoDrain	1480	MadWat	225
R10	A	KD/O	0.8	No evidence of depth to impermeable layer or North side of Browne Pacific intersection - eas	Basic, metals, oil control (sorptive)	None	Permeable pavement	1800	PaveDrain	1460	ModWet	225
D11	А	RB77	0.6	groundwater around or on site half of street	Basic, metals, oil control (sorptive)	None	Permeable pavement	1350	PaveDrain	1110	ModWet	225
R11	A	ND//	0.0	Known depth to impermeable layer around or South side of Browne 2nd intersection - west		None		1350	PaveDialli	1110	Wouwer	225
D10	А	RB58	0.5	on site is sufficient half of street	Basic, metals, oil control (sorptive)	None	Permeable pavement	1125	PaveDrain	925	ModWet	189
R12	A	КВЭО	0.5	Known depth to impermeable layer around or South side of Browne 2nd intersection - east	Basic, metals, on control (sorptive)	None		1125	PaveDrain	925	Widdwet	109
D10		RB61	0.0	on site is sufficient half of street	Pasic motals oil control (corntivo)	None	Pormochio povomont	2025	PaveDrain	1665	ModWet	225
R13	A	KDOI		No evidence of depth to impermeable layer or Division between Main and Spokane Falls Blvc	Basic, metals, oil control (sorptive)	None	Permeable pavement Permeable pavement with	2025	PaveDrain	1005	Bioretention/Bioinfiltration	225
D16	C	RB1	0.3			Cistern; 4,000 gallon	underdrain	675	Dave Drain with underdrain	555	Vault with Overflow	196
R16	L	KBI	0.3		Basic, metals, oil control (sorptive)			675	PaveDrain with underdrain	555	vault with Overnow	186
R17	C	RB12	1 2	No evidence of depth to impermeable layer or groundwater around or on site east half of street		Cisterns; (2) 13,000 gallon	Permeable pavement with underdrain	2925	PaveDrain with underdrain	2405	ModWet	450
K17	L	RDIZ	1.3	groundwater around or on site east half of street No evidence of depth to impermeable layer or State St between 2nd and Pacific - east half of	Basic, metals, oil control (sorptive)	galion	underdrain	2925		2405	Widdwet	450
R15	А	RB52	0.6	groundwater around or on site the street	Basic (assumed)	None	Permeable pavement	1350	PaveDrain	1110	ModWet	225
CTN	A	NDJZ	0.0	No evidence of depth to impermeable layer or	Basic (assumed)	None		1350	PaveDrain	1110	Bioretention/Bioinfiltration	223
R14	А	RB72	0.3	groundwater around or on site State St north of Pacific - east half of the stree	Basic (assumed)	None	Permeable pavement	675	PaveDrain	555	Vault with Overflow	186
114	~	1072		No evidence of depth to impermeable layer or	Basic (assumed)	Cisterns; (2) 11,500	Permeable pavement with	075	Tavebrain	555	Vadit With Overhow	100
R19	C	RB13		groundwater around or on site Division St south of Main - east side of street	Basic, metals, oil control (sorptive)	gallon	underdrain	2475	PaveDrain with underdrain	2035	ModWet	450
115	C	ND13	1.1	No evidence of depth to impermeable layer or		Cisterns; (2) 11,500	Permeable pavement with	2473		2033	Widdwet	450
R18	C	RB2	1.2	groundwater around or on site Division St south of Main - west side of street	Basic, metals, oil control (sorptive)		underdrain	2700	PaveDrain with underdrain	2220	ModWet	450
N10	č	NDZ		Known depth to impermeable layer around or		guilon	Permeable pavement with	2700		2220	iniduvee	+50
R20	C	RB3		on site is sufficient Riverside east of Division - north half of street	Basic (assumed)	Cistern; 8,500 gallon	underdrain	1125	PaveDrain with underdrain	925	ModWet	189
1120	C	1100	0.5	No evidence of depth to impermeable layer or Division between Pacific and 1st - west half of			Permeable pavement with	1125		525		105
R21	с	RB78	0.6	groundwater around or on site street	Basic, metals, oil control (sorptive)	Cistern; 11,500 gallon	underdrain	1350	PaveDrain with underdrain	1110	ModWet	225
	C		0.0	Known depth to impermeable layer around or Division between 2nd and 3rd - west half of			Permeable pavement with	1000				
R22	с	RB61	0.9	on site is sufficient street	Basic, metals, oil control (sorptive)	Cistern; 22,500 gallon	underdrain	2025	PaveDrain with underdrain	1665	ModWet	225
			0.0	Known depth to impermeable layer around or						1000		
R23	А	RB16	0.7	on site is sufficient Pine between Sprague and 1st - west half	Basic (assumed)	None	Permeable pavement	1575	PaveDrain	1295	ModWet	225
				No evidence of depth to impermeable layer or								+
R25	А	RB18	0.8	groundwater around or on site Pine between Pacific and 1st - east half	Basic (assumed)	None	Permeable pavement	1800	PaveDrain	1480	ModWet	225
1125	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	IND10	0.0	Known depth to impermeable layer around or Pine between Pacific and 2nd - west half, Paci				1000		1100		
R28	А	RB51	0.8	on site is sufficient east of Pine - south half	Basic (assumed)	None	Permeable pavement	1800	PaveDrain	1480	ModWet	225
			0.0	No evidence of depth to impermeable layer or				1000	. arcbrain	1.00		<u> </u>
R27	А	RB19	0.2	groundwater around or on site Pacific east of Pine - north half	Basic (assumed)	None	Permeable pavement	450	PaveDrain	370	ModWet	117
1127	<u> </u>		0.2	Known depth to impermeable layer around or		None				3,0	iniouwet	+ ··· /
R29	А	RB48	0.8	on site is sufficient Pine between Pacific and 2nd - east half	Basic (assumed)	None	Permeable pavement	1800	PaveDrain	1480	ModWet	225
1125	<u> </u>			No evidence of depth to impermeable layer or		None		1000		1700	iniouwet	
R26	А	RB20		groundwater around or on site Pine between Pacific and 1st - west half	Basic (assumed)	None	Permeable pavement	1800	PaveDrain	1480	ModWet	225
1120	<u>n</u>	1.520		Known depth to impermeable layer around or				1000		1,00		<u> </u>
R24	Δ	RB30		on site is sufficient Pine between Sprague and 1st - east half	Basic (assumed)	None	Permeable pavement	1125	PaveDrain	925	ModWet	189
1124		11050	0.5		Basic (assumed)		remeasic pavement		, avebruin	525		1 100

| R30 D R31 D R33 D R33 D R36 A R37 A R39 D R40 D R41 D R43 A R44 A R42 D R43 D R45 D R46 D R47 D R48 D R51 A R52 D R49 D R54 A A <tr td=""> <!--</th--><th></th><th>Basin</th><th>Area</th><th></th><th></th><th></th><th></th><th>Footprint</th><th></th><th>Footprint</th><th></th><th>Footprint</th></tr> <tr><th>R30 D R31 D R33 D R33 D R36 A R37 A R39 D R40 D R41 D R43 A R44 A R42 D R46 D R47 D R48 D R50 A R51 A R49 D R54 D R55 A R56 D R56 D</th><th>on Basir</th><th>in ID (a</th><th>Classification Justification</th><th>Basin Location</th><th>Runoff Treatment</th><th>Detention</th><th>Largest BMP Type</th><th>(sq. ft)</th><th>Second Largest BMP Type</th><th>(sq. ft)</th><th>Smallest BMP Type</th><th>(sq. ft)</th></tr> <tr><th>R31 D R33 D R36 A R32 D R32 D R37 A R39 D R40 D R41 D R43 A R44 A R42 D R43 D R45 D R48 D R50 A R51 A R53 A R54 D R55 A R56 D <tr td=""></tr></th><th></th><th></th><th>Known depth to impermeable layer around site</th><th>2</th><th></th><th></th><th>Permeable pavement with</th><th></th><th><u> </u></th><th></th><th><i>"</i></th><th></th></tr> <tr><td>R33 D R36 A R32 D R37 A R37 D R40 D R41 D R43 A R44 A R42 D R46 D R47 D R48 D R47 A R50 A R51 A R53 A R53 A R56 D</td><td>RB6</td><td>B67 0</td><td></td><td>Pine between 2nd and 3rd - west half</td><td>Basic (assumed)</td><td>Cistern; 19,000 gallon</td><td>underdrain</td><td>1800</td><td>PaveDrain with underdrain</td><td>1480</td><td>ModWet</td><td>225</td></tr> <tr><td>R33 D R36 A R32 D R37 A R37 D R40 D R41 D R43 A R44 A R42 D R46 D R47 D R48 D R47 A R50 A R51 A R53 A R53 A R56 D</td><td></td><td></td><td>Known depth to impermeable layer around site</td><td></td><td></td><td></td><td>Permeable pavement with</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>R33 D R36 A R32 D R37 A R37 D R40 D R41 D R43 A R44 A R42 D R46 D R47 D R48 D R47 A R50 A R51 A R53 A R53 A R56 D</td><td>RB6</td><td>B69 0</td><td></td><td>Pine between 2nd and 3rd - east half</td><td>Basic (assumed)</td><td>Cistern; 19,000 gallon</td><td>underdrain</td><td>1800</td><td>PaveDrain with underdrain</td><td>1480</td><td>ModWet</td><td>225</td></tr> <tr><td>R36 A R32 D R37 A R37 D R39 D R40 D R41 D R43 A R44 A R42 D R44 A R45 D R46 D R47 D R48 D R47 A R50 A R51 A R52 D R53 A R49 D R56 D</td><td></td><td></td><td>Known depth to impermeable layer around site</td><td></td><td></td><td></td><td>Permeable pavement with</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>R36 A R32 D R37 A R37 D R39 D R40 D R41 D R43 A R44 A R42 D R44 A R45 D R46 D R47 D R48 D R47 A R50 A R51 A R52 D R53 A R49 D R56 D</td><td>RB2</td><td>B29 0</td><td></td><td>Cowley between Sprague and 1st - east half</td><td>Basic (assumed)</td><td>Cistern; 11,500 gallon</td><td>underdrain</td><td>1350</td><td>PaveDrain with underdrain</td><td>1110</td><td>ModWet</td><td>225</td></tr> <tr><td>R32 D R37 A R37 D R37 D R39 D R40 D R40 D R41 D R43 A R44 A R42 D R46 D R47 D R48 D R47 A R48 D R50 A R51 A R53 A R49 D R56 D</td><td></td><td></td><td>No evidence of depth to impermeable layer or</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>R32 D R37 A R37 D R37 D R39 D R40 D R40 D R41 D R43 A R44 A R42 D R46 D R47 D R48 D R47 A R48 D R50 A R51 A R53 A R49 D R56 D</td><td>RB2</td><td>B20 0</td><td></td><td>Cowley between 1st and Pacific - west half</td><td>Basic (assumed)</td><td>None</td><td>Permeable pavement</td><td>1800</td><td>PaveDrain</td><td>1480</td><td>ModWet</td><td>225</td></tr> <tr><td>R37 A R34 D R35 D R39 D R39 D R40 D R43 A R41 D R43 A R44 A R43 A R44 A R45 D R46 D R47 D R48 D R47 A R45 D R45 A R50 A R51 A R53 A R56 D R56 D</td><td></td><td></td><td>Known depth to impermeable layer around site</td><td></td><td></td><td></td><td>Permeable pavement with</td><td>1000</td><td></td><td>1.00</td><td></td><td></td></tr> <tr><td>R37 A R34 D R35 D R39 D R39 D R40 D R43 A R41 D R43 A R44 A R43 A R44 A R45 D R46 D R47 D R48 D R47 A R45 D R45 A R50 A R51 A R53 A R56 D R56 D</td><td>RB</td><td>B30 0</td><td></td><td>Cowley between Sprague and 1st - west half</td><td>Basic (assumed)</td><td>Cistern; 8,500 gallon</td><td>underdrain</td><td>1125</td><td>PaveDrain with underdrain</td><td>925</td><td>ModWet</td><td>189</td></tr> <tr><td>R34 D R35 D R39 D R40 D R40 D R40 D R40 D R40 D R40 A R41 D R43 A R44 A R42 D R46 D R47 D R48 D R47 A R45 A R45 D R45 D R45 D R46 D R47 D R48 D R50 A R51 A R52 D R53 A R49 D R56 D</td><td></td><td></td><td>No evidence of depth to impermeable layer or</td><td></td><td>Basic (assumed)</td><td></td><td></td><td>1125</td><td></td><td>525</td><td></td><td>105</td></tr> <tr><td>R34 D R35 D R39 D R40 D R40 D R40 D R40 D R40 D R40 A R41 D R43 A R44 A R42 D R46 D R47 D R48 D R47 A R45 A R45 D R45 D R45 D R46 D R47 D R48 D R50 A R51 A R52 D R53 A R49 D R56 D</td><td>RBC</td><td>B23 0</td><td></td><td>Cowley between 1st and Pacific - east half</td><td>Basic (assumed)</td><td>None</td><td>Permeable pavement</td><td>1800</td><td>PaveDrain</td><td>1480</td><td>ModWet</td><td>225</td></tr> <tr><td>R35 D R39 D R40 D R40 D R38 A R41 D R43 A R44 A R42 D R46 D R47 D R48 D R47 D R48 D R50 A R51 A R52 D R49 D R56 D</td><td>ND2</td><td>525 0</td><td>Area above historic lake; potential high</td><td></td><td>basic (assumed)</td><td>None</td><td>Permeable pavement with</td><td>1000</td><td>Taveblain</td><td>1400</td><td>Modwet</td><td>225</td></tr> <tr><td>R35 D R39 D R40 D R40 D R38 A R41 D R43 A R44 A R42 D R46 D R47 D R48 D R47 D R48 D R50 A R51 A R52 D R49 D R56 D</td><td>PB3</td><td>B28 0</td><td></td><td>1st east of Cowley - north half</td><td>Basic (assumed)</td><td>Cistern; 2,000 gallon</td><td>underdrain</td><td>450</td><td>PaveDrain with underdrain</td><td>370</td><td>ModWet</td><td>117</td></tr> <tr><td>R39 D R40 D R38 A R38 A R41 D R43 A R44 A R42 D R46 D R47 D R48 D R50 A R51 A R52 D R49 D R56 D</td><td>ND2</td><td>528 0</td><td>Area above historic lake; potential high</td><td></td><td>Basic (assumed)</td><td></td><td>Permeable pavement with</td><td>430</td><td></td><td>370</td><td>Wouver</td><td></td></tr> <tr><td>R39 D R40 D R38 A R38 A R41 D R43 A R44 A R42 D R46 D R47 D R48 D R50 A R51 A R52 D R49 D R56 D</td><td>DD</td><td>B23 0</td><td></td><td>1st east of Cowley, south half</td><td>Basic (assumed)</td><td>Cistorn, 10,000 gallon</td><td>underdrain</td><td>1800</td><td>Dava Drain with underdrain</td><td>1480</td><td>MadWat</td><td>225</td></tr> <tr><td>R40 D R38 A R41 D R43 A R43 A R44 A R42 D R46 D R47 D R48 D R50 A R51 A R52 D R53 A R49 D R56 D</td><td>KB2</td><td>823 0</td><td>Known depth to impermeable layer around site</td><td>1st east of Cowley - south half</td><td>Basic (assumed)</td><td>Cistern; 19,000 gallon</td><td></td><td>1800</td><td>PaveDrain with underdrain</td><td>1480</td><td>ModWet</td><td>225</td></tr> <tr><td>R40 D R38 A R41 D R43 A R43 A R44 A R42 D R46 D R47 D R48 D R50 A R51 A R52 D R53 A R49 D R56 D</td><td></td><td></td><td></td><td></td><td></td><td>C + 10.000 II</td><td>Permeable pavement with</td><td>4000</td><td></td><td>1.100</td><td></td><td>225</td></tr> <tr><td>R38 A R41 D R43 A R43 A R44 A R42 D R46 D R45 D R47 D R48 D R50 A R51 A R53 A R49 D R56 D</td><td>RB4</td><td>B48 0</td><td></td><td>Pacific west of Cowley - south half</td><td>Basic (assumed)</td><td>Cistern; 19,000 gallon</td><td>underdrain</td><td>1800</td><td>PaveDrain with underdrain</td><td>1480</td><td>ModWet</td><td>225</td></tr> <tr><td>R38 A R41 D R43 A R43 A R44 A R42 D R46 D R45 D R47 D R48 D R50 A R51 A R53 A R49 D R56 D</td><td></td><td></td><td>Known depth to impermeable layer around site</td><td></td><td></td><td></td><td>Permeable pavement with</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>R41 D R43 A R43 A R44 A R42 D R46 D R45 D R47 D R48 D R50 A R51 A R53 A R49 D R56 D</td><td>RB8</td><td>B80 0</td><td></td><td>Cowley between Pacific and 2nd - east half</td><td>Basic (assumed)</td><td>Cistern; 8,500 gallon</td><td>underdrain</td><td>1125</td><td>PaveDrain with underdrain</td><td>925</td><td>ModWet</td><td>189</td></tr> <tr><td>R41 D R43 A R43 A R44 A R42 D R46 D R45 D R47 D R48 D R50 A R51 A R53 A R49 D R56 D</td><td></td><td></td><td>No evidence of depth to impermeable layer or</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td> </td></tr> <tr><td>R43 A R44 A R42 D R42 D R46 D R46 D R47 D R48 D R50 A R51 A R52 D R53 A R49 D</td><td>RB2</td><td>B21 0</td><td></td><td>Pacific west of Cowley - north half</td><td>Basic (assumed)</td><td>None</td><td>Permeable pavement</td><td>450</td><td>PaveDrain</td><td>370</td><td>ModWet</td><td>117</td></tr> <tr><td>R43 A R44 A R42 D R42 D R46 D R46 D R47 D R48 D R50 A R51 A R52 D R53 A R49 D</td><td></td><td></td><td>Known depth to impermeable layer around site</td><td></td><td></td><td></td><td>Permeable pavement with</td><td></td><td></td><td></td><td></td><td> </td></tr> <tr><td>R44 A R42 D R42 D R46 D R46 D R47 D R48 D R50 A R51 A R52 D R53 A R49 D R56 D</td><td>RB6</td><td>B69 0</td><td></td><td>Cowley north of 3rd - west half</td><td>Basic (assumed)</td><td>Cistern; 19,000 gallon</td><td>underdrain</td><td>1800</td><td>PaveDrain with underdrain</td><td>1480</td><td>ModWet</td><td>225</td></tr> <tr><td>R44 A R42 D R42 D R46 D R46 D R47 D R48 D R50 A R51 A R52 D R53 A R49 D R56 D</td><td></td><td></td><td>Known depth to impermeable layer around or</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Bioretention/Bioinfiltration</td><td>1</td></tr> <tr><td>R42 D R46 D R45 D R45 D R47 D R48 D R50 A R51 A R52 D R53 A R49 D R56 D</td><td>RB6</td><td>B68 0</td><td>on site is sufficient</td><td>3rd between Pine and Cowley - north half</td><td>Basic</td><td>None</td><td>Permeable pavement</td><td>675</td><td>PaveDrain</td><td>555</td><td>Vault with Overflow</td><td>186</td></tr> <tr><td>R42 D R46 D R45 D R45 D R47 D R48 D R50 A R51 A R52 D R53 A R49 D R56 D</td><td></td><td></td><td>Known depth to impermeable layer around or</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>R46 D R45 D R47 D R47 D R48 D R50 A R51 A R52 D R53 A R49 D R56 D</td><td>RB6</td><td>B65 1</td><td>on site is sufficient</td><td>3rd between Pine and Cowley - south half</td><td>Basic</td><td>None</td><td>Permeable pavement</td><td>3825</td><td>PaveDrain</td><td>3145</td><td>ModWet</td><td>450</td></tr> <tr><td>R46 D R45 D R47 D R47 D R48 D R50 A R51 A R52 D R53 A R49 D R56 D</td><td></td><td></td><td>Known depth to impermeable layer around site</td><td>2</td><td></td><td></td><td>Permeable pavement with</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>R45 D R47 D R47 D R48 D R50 A R51 A R52 D R53 A R49 D R56 D</td><td>RB7</td><td>B71 0</td><td>is not sufficient</td><td>Cowley north of 3rd - east half</td><td>Basic</td><td>Cistern; 19,000 gallon</td><td>underdrain</td><td>1800</td><td>PaveDrain with underdrain</td><td>1480</td><td>ModWet</td><td>225</td></tr> <tr><td>R45 D R47 D R47 D R48 D R50 A R51 A R52 D R53 A R49 D R56 D</td><td></td><td></td><td>Area above historic lake; potential high</td><td></td><td></td><td></td><td>Permeable pavement with</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>R47 D R48 D R50 A R51 A R52 D R53 A R49 D R56 D</td><td>RB2</td><td>B26 0</td><td>groundwater</td><td>Spokane St north of 1st - east half</td><td>Basic (assumed)</td><td>Cistern; 11,500 gallon</td><td>underdrain</td><td>1350</td><td>PaveDrain with underdrain</td><td>1110</td><td>ModWet</td><td>225</td></tr> <tr><td>R47 D R48 D R50 A R51 A R52 D R53 A R49 D R56 D</td><td></td><td></td><td>Area above historic lake; potential high</td><td></td><td></td><td></td><td>Permeable pavement with</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>R48 D R50 A R51 A R52 D R53 A R49 D R56 D</td><td>RB2</td><td>B29 0</td><td>groundwater</td><td>Spokane St north of 1st - west half</td><td>Basic (assumed)</td><td>Cistern; 11,500 gallon</td><td>underdrain</td><td>1350</td><td>PaveDrain with underdrain</td><td>1110</td><td>ModWet</td><td>225</td></tr> <tr><td>R48 D R50 A R51 A R52 D R53 A R49 D R56 D</td><td></td><td></td><td>Known depth to impermeable layer around site</td><td></td><td>x 7</td><td></td><td>Permeable pavement with</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>R48 D R50 A R51 A R52 D R53 A R49 D R56 D</td><td>RB7</td><td>в79 0</td><td></td><td>Spokane St between Pacific and 2nd - west half</td><td>Basic (assumed)</td><td>Cistern; 8,500 gallon</td><td>underdrain</td><td>1125</td><td>PaveDrain with underdrain</td><td>925</td><td>ModWet</td><td>189</td></tr> <tr><td>R50 A R51 A R52 D R53 A R49 D R56 D</td><td></td><td></td><td>Known depth to impermeable layer around site</td><td></td><td></td><td>Cisterns; (2) 11,500</td><td>Permeable pavement with</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>R50 A R51 A R52 D R53 A R49 D R56 D</td><td>RB</td><td>B36 1</td><td></td><td>Spokane St between Pacific and 2nd - east half</td><td>Basic (assumed)</td><td>gallon</td><td>underdrain</td><td>2700</td><td>PaveDrain with underdrain</td><td>2220</td><td>ModWet</td><td>450</td></tr> <tr><td>R51 A R52 D R53 A R49 D R56 D</td><td></td><td></td><td>Known depth to impermeable layer around or</td><td>Spokale St between i delle dild 211d - edst ildi</td><td>Basic (assumed)</td><td>Bailott</td><td></td><td>2700</td><td></td><td></td><td></td><td>150</td></tr> <tr><td>R51 A R52 D R53 A R49 D R56 D</td><td>RB/</td><td>B40 0</td><td></td><td>Spokane St north of 3rd - east half</td><td>Basic (assumed)</td><td>None</td><td>Permeable pavement</td><td>1350</td><td>PaveDrain</td><td>1110</td><td>ModWet</td><td>225</td></tr> <tr><td>R52 D R53 A F R49 D F R56 D F</td><td>110-</td><td>540 0</td><td>Known depth to impermeable layer around or</td><td></td><td>Basic (assumed)</td><td>None</td><td></td><td>1350</td><td>Tuvebium</td><td>1110</td><td>Bioretention/Bioinfiltration</td><td></td></tr> <tr><td>R52 D R53 A F R49 D F R56 D F</td><td>RB3</td><td>B39 0</td><td></td><td>3rd east of Spokane St - north half</td><td>Basic</td><td>None</td><td>Permeable pavement</td><td>675</td><td>PaveDrain</td><td>555</td><td>Vault with Overflow</td><td>186</td></tr> <tr><td>R53 A F R49 D R56 D</td><td>ND.</td><td>559 0</td><td>Known depth to impermeable layer around site</td><td></td><td>Dasic</td><td></td><td>Permeable pavement with</td><td>075</td><td>FaveDialli</td><td>555</td><td></td><td>100</td></tr> <tr><td>R53 A F R49 D R56 D</td><td>DDA</td><td>B65 1</td><td></td><td>Spokane St south of 3rd - west half</td><td>Basic (assumed)</td><td>Cisterns; (2) 22,500</td><td>underdrain</td><td>3825</td><td>PaveDrain with underdrain</td><td>2145</td><td>MadWat</td><td>450</td></tr> <tr><td>R49 D
R56 D</td><td>RBC</td><td>B65 1</td><td></td><td>Spokane St south of 3rd - west han</td><td>Basic (assumed)</td><td>gallon</td><td>underdrain</td><td>3825</td><td>PaveDrain with underdrain</td><td>3145</td><td>ModWet</td><td>450</td></tr> <tr><td>R49 D
R56 D</td><td></td><td></td><td>Known depth to impermeable layer around or</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>R56 D</td><td>RB1</td><td>106 0</td><td></td><td>Spokane St south of 3rd - east half</td><td>Basic (assumed)</td><td>None</td><td>Permeable pavement</td><td>900</td><td>PaveDrain</td><td>740</td><td>ModWet</td><td>189</td></tr> <tr><td>R56 D</td><td></td><td></td><td>Known depth to impermeable layer around site</td><td></td><td></td><td></td><td>Permeable pavement with</td><td></td><td></td><td></td><td></td><td>1</td></tr> <tr><td></td><td>RB7</td><td>B71 0</td><td></td><td>Spokane St north of 3rd - west half</td><td>Basic (assumed)</td><td>Cistern; 19,000 gallon</td><td>underdrain</td><td>1800</td><td>PaveDrain with underdrain</td><td>1480</td><td>ModWet</td><td>225</td></tr> <tr><td></td><td></td><td></td><td>Known depth to impermeable layer around site</td><td></td><td></td><td></td><td>Permeable pavement with</td><td></td><td></td><td></td><td></td><td>1</td></tr> <tr><td></td><td>RB2</td><td>B26 0</td><td></td><td>Grant between Sprague and 1st - west half</td><td>Basic (assumed)</td><td>Cistern; 11,500 gallon</td><td>underdrain</td><td>1350</td><td>PaveDrain with underdrain</td><td>1110</td><td>ModWet</td><td>225</td></tr> <tr><td></td><td></td><td></td><td>Known depth to impermeable layer around site</td><td>e </td><td></td><td></td><td>Permeable pavement with</td><td></td><td></td><td></td><td></td><td> </td></tr> <tr><td>R57 D</td><td>RB3</td><td>B33 0</td><td>is not sufficient</td><td>Grant between Sprague and 1st - east half</td><td>Basic (assumed)</td><td>Cistern; 11,500 gallon</td><td>underdrain</td><td>1350</td><td>PaveDrain with underdrain</td><td>1110</td><td>ModWet</td><td>225</td></tr> <tr><td></td><td></td><td></td><td>Known depth to impermeable layer around site</td><td>2</td><td></td><td></td><td>Permeable pavement with</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>R58 D</td><td>RB2</td><td>B24 0</td><td>is not sufficient</td><td>Grant between 1st and Pacific - west half</td><td>Basic (assumed)</td><td>Cistern; 19,000 gallon</td><td>underdrain</td><td>1800</td><td>PaveDrain with underdrain</td><td>1480</td><td>ModWet</td><td>225</td></tr> <tr><td></td><td></td><td></td><td>Known depth to impermeable layer around site</td><td>2</td><td></td><td></td><td>Permeable pavement with</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>R59 D</td><td>RB3</td><td>B35 0</td><td>is not sufficient</td><td>Grant between 1st and Pacific - east half</td><td>Basic (assumed)</td><td>Cistern; 22,500 gallon</td><td>underdrain</td><td>2025</td><td>PaveDrain with underdrain</td><td>1665</td><td>ModWet</td><td>225</td></tr> <tr><td></td><td></td><td></td><td>Known depth to impermeable layer around site</td><td>2</td><td>•</td><td>-</td><td>Permeable pavement with</td><td></td><td></td><td></td><td>Bioretention/Bioinfiltration</td><td></td></tr> <tr><td>R54 D F</td><td>DD1</td><td>0.</td><td></td><td>Grant north of Sprague - west half</td><td>Basic (assumed)</td><td>Cistern; 2,000 gallon</td><td>underdrain</td><td>337.5</td><td>PaveDrain with underdrain</td><td>277.5</td><td>Vault with Overflow</td><td>93</td></tr> | | Basin | Area | | | | | Footprint | | Footprint | | Footprint | R30 D R31 D R33 D R33 D R36 A R37 A R39 D R40 D R41 D R43 A R44 A R42 D R46 D R47 D R48 D R50 A R51 A R49 D R54 D R55 A R56 D R56 D | on Basir | in ID (a | Classification Justification | Basin Location | Runoff Treatment | Detention | Largest BMP Type | (sq. ft) | Second Largest BMP Type | (sq. ft) | Smallest BMP Type | (sq. ft) | R31 D R33 D R36 A R32 D R32 D R37 A R39 D R40 D R41 D R43 A R44 A R42 D R43 D R45 D R48 D R50 A R51 A R53 A R54 D R55 A R56 D <tr td=""></tr> | | | Known depth to impermeable layer around site | 2 | | | Permeable pavement with | | <u> </u> | | <i>"</i> | | R33 D R36 A R32 D R37 A R37 D R40 D R41 D R43 A R44 A R42 D R46 D R47 D R48 D R47 A R50 A R51 A R53 A R53 A R56 D | RB6 | B67 0 | | Pine between 2nd and 3rd - west half | Basic (assumed) | Cistern; 19,000 gallon | underdrain | 1800 | PaveDrain with underdrain | 1480 | ModWet | 225 | R33 D R36 A R32 D R37 A R37 D R40 D R41 D R43 A R44 A R42 D R46 D R47 D R48 D R47 A R50 A R51 A R53 A R53 A R56 D | | | Known depth to impermeable layer around site | | | | Permeable pavement with | | | | | | R33 D R36 A R32 D R37 A R37 D R40 D R41 D R43 A R44 A R42 D R46 D R47 D R48 D R47 A R50 A R51 A R53 A R53 A R56 D | RB6 | B69 0 | | Pine between 2nd and 3rd - east half | Basic (assumed) | Cistern; 19,000 gallon | underdrain | 1800 | PaveDrain with underdrain | 1480 | ModWet | 225 | R36 A R32 D R37 A R37 D R39 D R40 D R41 D R43 A R44 A R42 D R44 A R45 D R46 D R47 D R48 D R47 A R50 A R51 A R52 D R53 A R49 D R56 D | | | Known depth to impermeable layer around site | | | | Permeable pavement with | | | | | | R36 A R32 D R37 A R37 D R39 D R40 D R41 D R43 A R44 A R42 D R44 A R45 D R46 D R47 D R48 D R47 A R50 A R51 A R52 D R53 A R49 D R56 D | RB2 | B29 0 | | Cowley between Sprague and 1st - east half | Basic (assumed) | Cistern; 11,500 gallon | underdrain | 1350 | PaveDrain with underdrain | 1110 | ModWet | 225 | R32 D R37 A R37 D R37 D R39 D R40 D R40 D R41 D R43 A R44 A R42 D R46 D R47 D R48 D R47 A R48 D R50 A R51 A R53 A R49 D R56 D | | | No evidence of depth to impermeable layer or | | | | | | | | | | R32 D R37 A R37 D R37 D R39 D R40 D R40 D R41 D R43 A R44 A R42 D R46 D R47 D R48 D R47 A R48 D R50 A R51 A R53 A R49 D R56 D | RB2 | B20 0 | | Cowley between 1st and Pacific - west half | Basic (assumed) | None | Permeable pavement | 1800 | PaveDrain | 1480 | ModWet | 225 | R37 A R34 D R35 D R39 D R39 D R40 D R43 A R41 D R43 A R44 A R43 A R44 A R45 D R46 D R47 D R48 D R47 A R45 D R45 A R50 A R51 A R53 A R56 D R56 D | | | Known depth to impermeable layer around site | | | | Permeable pavement with | 1000 | | 1.00 | | | R37 A R34 D R35 D R39 D R39 D R40 D R43 A R41 D R43 A R44 A R43 A R44 A R45 D R46 D R47 D R48 D R47 A R45 D R45 A R50 A R51 A R53 A R56 D R56 D | RB | B30 0 | | Cowley between Sprague and 1st - west half | Basic (assumed) | Cistern; 8,500 gallon | underdrain | 1125 | PaveDrain with underdrain | 925 | ModWet | 189 | R34 D R35 D R39 D R40 D R40 D R40 D R40 D R40 D R40 A R41 D R43 A R44 A R42 D R46 D R47 D R48 D R47 A R45 A R45 D R45 D R45 D R46 D R47 D R48 D R50 A R51 A R52 D R53 A R49 D R56 D | | | No evidence of depth to impermeable layer or | | Basic (assumed) | | | 1125 | | 525 | | 105 | R34 D R35 D R39 D R40 D R40 D R40 D R40 D R40 D R40 A R41 D R43 A R44 A R42 D R46 D R47 D R48 D R47 A R45 A R45 D R45 D R45 D R46 D R47 D R48 D R50 A R51 A R52 D R53 A R49 D R56 D | RBC | B23 0 | | Cowley between 1st and Pacific - east half | Basic (assumed) | None | Permeable pavement | 1800 | PaveDrain | 1480 | ModWet | 225 | R35 D R39 D R40 D R40 D R38 A R41 D R43 A R44 A R42 D R46 D R47 D R48 D R47 D R48 D R50 A R51 A R52 D R49 D R56 D | ND2 | 525 0 | Area above historic lake; potential high | | basic (assumed) | None | Permeable pavement with | 1000 | Taveblain | 1400 | Modwet | 225 | R35 D R39 D R40 D R40 D R38 A R41 D R43 A R44 A R42 D R46 D R47 D R48 D R47 D R48 D R50 A R51 A R52 D R49 D R56 D | PB3 | B28 0 | | 1st east of Cowley - north half | Basic (assumed) | Cistern; 2,000 gallon | underdrain | 450 | PaveDrain with underdrain | 370 | ModWet | 117 | R39 D R40 D R38 A R38 A R41 D R43 A R44 A R42 D R46 D R47 D R48 D R50 A R51 A R52 D R49 D R56 D | ND2 | 528 0 | Area above historic lake; potential high | | Basic (assumed) | | Permeable pavement with | 430 | | 370 | Wouver | | R39 D R40 D R38 A R38 A R41 D R43 A R44 A R42 D R46 D R47 D R48 D R50 A R51 A R52 D R49 D R56 D | DD | B23 0 | | 1st east of Cowley, south half | Basic (assumed) | Cistorn, 10,000 gallon | underdrain | 1800 | Dava Drain with underdrain | 1480 | MadWat | 225 | R40 D R38 A R41 D R43 A R43 A R44 A R42 D R46 D R47 D R48 D R50 A R51 A R52 D R53 A R49 D R56 D | KB2 | 823 0 | Known depth to impermeable layer around site | 1st east of Cowley - south half | Basic (assumed) | Cistern; 19,000 gallon | | 1800 | PaveDrain with underdrain | 1480 | ModWet | 225 | R40 D R38 A R41 D R43 A R43 A R44 A R42 D R46 D R47 D R48 D R50 A R51 A R52 D R53 A R49 D R56 D | | | | | | C + 10.000 II | Permeable pavement with | 4000 | | 1.100 | | 225 | R38 A R41 D R43 A R43 A R44 A R42 D R46 D R45 D R47 D R48 D R50 A R51 A R53 A R49 D R56 D | RB4 | B48 0 | | Pacific west of Cowley - south half | Basic (assumed) | Cistern; 19,000 gallon | underdrain | 1800 | PaveDrain with underdrain | 1480 | ModWet | 225 | R38 A R41 D R43 A R43 A R44 A R42 D R46 D R45 D R47 D R48 D R50 A R51 A R53 A R49 D R56 D | | | Known depth to impermeable layer around site | | | | Permeable pavement with | | | | | | R41 D R43 A R43 A R44 A R42 D R46 D R45 D R47 D R48 D R50 A R51 A R53 A R49 D R56 D | RB8 | B80 0 | | Cowley between Pacific and 2nd - east half | Basic (assumed) | Cistern; 8,500 gallon | underdrain | 1125 | PaveDrain with underdrain | 925 | ModWet | 189 | R41 D R43 A R43 A R44 A R42 D R46 D R45 D R47 D R48 D R50 A R51 A R53 A R49 D R56 D | | | No evidence of depth to impermeable layer or | | | | | | | | | | R43 A R44 A R42 D R42 D R46 D R46 D R47 D R48 D R50 A R51 A R52 D R53 A R49 D | RB2 | B21 0 | | Pacific west of Cowley - north half | Basic (assumed) | None | Permeable pavement | 450 | PaveDrain | 370 | ModWet | 117 | R43 A R44 A R42 D R42 D R46 D R46 D R47 D R48 D R50 A R51 A R52 D R53 A R49 D | | | Known depth to impermeable layer around site | | | | Permeable pavement with | | | | | | R44 A R42 D R42 D R46 D R46 D R47 D R48 D R50 A R51 A R52 D R53 A R49 D R56 D | RB6 | B69 0 | | Cowley north of 3rd - west half | Basic (assumed) | Cistern; 19,000 gallon | underdrain | 1800 | PaveDrain with underdrain | 1480 | ModWet | 225 | R44 A R42 D R42 D R46 D R46 D R47 D R48 D R50 A R51 A R52 D R53 A R49 D R56 D | | | Known depth to impermeable layer around or | | | | | | | | Bioretention/Bioinfiltration | 1 | R42 D R46 D R45 D R45 D R47 D R48 D R50 A R51 A R52 D R53 A R49 D R56 D | RB6 | B68 0 | on site is sufficient | 3rd between Pine and Cowley - north half | Basic | None | Permeable pavement | 675 | PaveDrain | 555 | Vault with Overflow | 186 | R42 D R46 D R45 D R45 D R47 D R48 D R50 A R51 A R52 D R53 A R49 D R56 D | | | Known depth to impermeable layer around or | | | | | | | | | | R46 D R45 D R47 D R47 D R48 D R50 A R51 A R52 D R53 A R49 D R56 D | RB6 | B65 1 | on site is sufficient | 3rd between Pine and Cowley - south half | Basic | None | Permeable pavement | 3825 | PaveDrain | 3145 | ModWet | 450 | R46 D R45 D R47 D R47 D R48 D R50 A R51 A R52 D R53 A R49 D R56 D | | | Known depth to impermeable layer around site | 2 | | | Permeable pavement with | | | | | | R45 D R47 D R47 D R48 D R50 A R51 A R52 D R53 A R49 D R56 D | RB7 | B71 0 | is not sufficient | Cowley north of 3rd - east half | Basic | Cistern; 19,000 gallon | underdrain | 1800 | PaveDrain with underdrain | 1480 | ModWet | 225 | R45 D R47 D R47 D R48 D R50 A R51 A R52 D R53 A R49 D R56 D | | | Area above historic lake; potential high | | | | Permeable pavement with | | | | | | R47 D R48 D R50 A R51 A R52 D R53 A R49 D R56 D | RB2 | B26 0 | groundwater | Spokane St north of 1st - east half | Basic (assumed) | Cistern; 11,500 gallon | underdrain | 1350 | PaveDrain with underdrain | 1110 | ModWet | 225 | R47 D R48 D R50 A R51 A R52 D R53 A R49 D R56 D | | | Area above historic lake; potential high | | | | Permeable pavement with | | | | | | R48 D R50 A R51 A R52 D R53 A R49 D R56 D | RB2 | B29 0 | groundwater | Spokane St north of 1st - west half | Basic (assumed) | Cistern; 11,500 gallon | underdrain | 1350 | PaveDrain with underdrain | 1110 | ModWet | 225 | R48 D R50 A R51 A R52 D R53 A R49 D R56 D | | | Known depth to impermeable layer around site | | x 7 | | Permeable pavement with | | | | | | R48 D R50 A R51 A R52 D R53 A R49 D R56 D | RB7 | в79 0 | | Spokane St between Pacific and 2nd - west half | Basic (assumed) | Cistern; 8,500 gallon | underdrain | 1125 | PaveDrain with underdrain | 925 | ModWet | 189 | R50 A R51 A R52 D R53 A R49 D R56 D | | | Known depth to impermeable layer around site | | | Cisterns; (2) 11,500 | Permeable pavement with | | | | | | R50 A R51 A R52 D R53 A R49 D R56 D | RB | B36 1 | | Spokane St between Pacific and 2nd - east half | Basic (assumed) | gallon | underdrain | 2700 | PaveDrain with underdrain | 2220 | ModWet | 450 | R51 A R52 D R53 A R49 D R56 D | | | Known depth to impermeable layer around or | Spokale St between i delle dild 211d - edst ildi | Basic (assumed) | Bailott | | 2700 | | | | 150 | R51 A R52 D R53 A R49 D R56 D | RB/ | B40 0 | | Spokane St north of 3rd - east half | Basic (assumed) | None | Permeable pavement | 1350 | PaveDrain | 1110 | ModWet | 225 | R52 D R53 A F R49 D F R56 D F | 110- | 540 0 | Known depth to impermeable layer around or | | Basic (assumed) | None | | 1350 | Tuvebium | 1110 | Bioretention/Bioinfiltration | | R52 D R53 A F R49 D F R56 D F | RB3 | B39 0 | | 3rd east of Spokane St - north half | Basic | None | Permeable pavement | 675 | PaveDrain | 555 | Vault with Overflow | 186 | R53 A F R49 D R56 D | ND. | 559 0 | Known depth to impermeable layer around site | | Dasic | | Permeable pavement with | 075 | FaveDialli | 555 | | 100 | R53 A F R49 D R56 D | DDA | B65 1 | | Spokane St south of 3rd - west half | Basic (assumed) | Cisterns; (2) 22,500 | underdrain | 3825 | PaveDrain with underdrain | 2145 | MadWat | 450 | R49 D
R56 D | RBC | B65 1 | | Spokane St south of 3rd - west han | Basic (assumed) | gallon | underdrain | 3825 | PaveDrain with underdrain | 3145 | ModWet | 450 | R49 D
R56 D | | | Known depth to impermeable layer around or | | | | | | | | | | R56 D | RB1 | 106 0 | | Spokane St south of 3rd - east half | Basic (assumed) | None | Permeable pavement | 900 | PaveDrain | 740 | ModWet | 189 | R56 D | | | Known depth to impermeable layer around site | | | | Permeable pavement with | | | | | 1 | | RB7 | B71 0 | | Spokane St north of 3rd - west half | Basic (assumed) | Cistern; 19,000 gallon | underdrain | 1800 | PaveDrain with underdrain | 1480 | ModWet | 225 | | | | Known depth to impermeable layer around site | | | | Permeable pavement with | | | | | 1 | | RB2 | B26 0 | | Grant between Sprague and 1st - west half | Basic (assumed) | Cistern; 11,500 gallon | underdrain | 1350 | PaveDrain with underdrain | 1110 | ModWet | 225 | | | | Known depth to impermeable layer around site | e | | | Permeable pavement with | | | | | | R57 D | RB3 | B33 0 | is not sufficient | Grant between Sprague and 1st - east half | Basic (assumed) | Cistern; 11,500 gallon | underdrain | 1350 | PaveDrain with underdrain | 1110 | ModWet | 225 | | | | Known depth to impermeable layer around site | 2 | | | Permeable pavement with | | | | | | R58 D | RB2 | B24 0 | is not sufficient | Grant between 1st and Pacific - west half | Basic (assumed) | Cistern; 19,000 gallon | underdrain | 1800 | PaveDrain with underdrain | 1480 | ModWet | 225 | | | | Known depth to impermeable layer around site | 2 | | | Permeable pavement with | | | | | | R59 D | RB3 | B35 0 | is not sufficient | Grant between 1st and Pacific - east half | Basic (assumed) | Cistern; 22,500 gallon | underdrain | 2025 | PaveDrain with underdrain | 1665 | ModWet | 225 | | | | Known depth to impermeable layer around site | 2 | • | - | Permeable pavement with | | | | Bioretention/Bioinfiltration | | R54 D F | DD1 | 0. | | Grant north of Sprague - west half | Basic (assumed) | Cistern; 2,000 gallon | underdrain | 337.5 | PaveDrain with underdrain | 277.5 | Vault with Overflow | 93 |

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 | Basin | Area | | | | | Footprint | | Footprint | | Footprint | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| R30 D R31 D R33 D R33 D R36 A R37 A R39 D R40 D R41 D R43 A R44 A R42 D R46 D R47 D R48 D R50 A R51 A R49 D R54 D R55 A R56 D R56 D

 | on Basir | in ID (a | Classification Justification | Basin Location | Runoff Treatment | Detention | Largest BMP Type | (sq. ft) | Second Largest BMP Type | (sq. ft) | Smallest BMP Type | (sq. ft) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | RB2 | B29 0 | | Cowley between Sprague and 1st - east half | Basic (assumed) | Cistern; 11,500 gallon | underdrain | 1350 | PaveDrain with underdrain | 1110 | ModWet | 225 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | RB | B30 0 | | Cowley between Sprague and 1st - west half | Basic (assumed) | Cistern; 8,500 gallon | underdrain | 1125 | PaveDrain with underdrain | 925 | ModWet | 189 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | RBC | B23 0 | | Cowley between 1st and Pacific - east half | Basic (assumed) | None | Permeable pavement | 1800 | PaveDrain | 1480 | ModWet | 225 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| R35 D R39 D R40 D R40 D R38 A R41 D R43 A R44 A R42 D R46 D R47 D R48 D R47 D R48 D R50 A R51 A R52 D R49 D R56 D

 | ND2 | 525 0 | Area above historic lake; potential high | | basic (assumed) | None | Permeable pavement with | 1000 | Taveblain | 1400 | Modwet | 225 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | PB3 | B28 0 | | 1st east of Cowley - north half | Basic (assumed) | Cistern; 2,000 gallon | underdrain | 450 | PaveDrain with underdrain | 370 | ModWet | 117 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | ND2 | 528 0 | Area above historic lake; potential high | | Basic (assumed) | | Permeable pavement with | 430 | | 370 | Wouver | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | DD | B23 0 | | 1st east of Cowley, south half | Basic (assumed) | Cistorn, 10,000 gallon | underdrain | 1800 | Dava Drain with underdrain | 1480 | MadWat | 225 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | KB2 | 823 0 | Known depth to impermeable layer around site | 1st east of Cowley - south half | Basic (assumed) | Cistern; 19,000 gallon | | 1800 | PaveDrain with underdrain | 1480 | ModWet | 225 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | | | | | | C + 10.000 II | Permeable pavement with | 4000 | | 1.100 | | 225 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | RB4 | B48 0 | | Pacific west of Cowley - south half | Basic (assumed) | Cistern; 19,000 gallon | underdrain | 1800 | PaveDrain with underdrain | 1480 | ModWet | 225 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | | | Known depth to impermeable layer around site | | | | Permeable pavement with | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | RB8 | B80 0 | | Cowley between Pacific and 2nd - east half | Basic (assumed) | Cistern; 8,500 gallon | underdrain | 1125 | PaveDrain with underdrain | 925 | ModWet | 189 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | RB2 | B21 0 | | Pacific west of Cowley - north half | Basic (assumed) | None | Permeable pavement | 450 | PaveDrain | 370 | ModWet | 117 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | RB6 | B69 0 | | Cowley north of 3rd - west half | Basic (assumed) | Cistern; 19,000 gallon | underdrain | 1800 | PaveDrain with underdrain | 1480 | ModWet | 225 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | RB6 | B68 0 | on site is sufficient | 3rd between Pine and Cowley - north half | Basic | None | Permeable pavement | 675 | PaveDrain | 555 | Vault with Overflow | 186 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | RB6 | B65 1 | on site is sufficient | 3rd between Pine and Cowley - south half | Basic | None | Permeable pavement | 3825 | PaveDrain | 3145 | ModWet | 450 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | RB/ | B40 0 | | Spokane St north of 3rd - east half | Basic (assumed) | None | Permeable pavement | 1350 | PaveDrain | 1110 | ModWet | 225 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | 110- | 540 0 | Known depth to impermeable layer around or | | Basic (assumed) | None | | 1350 | Tuvebium | 1110 | Bioretention/Bioinfiltration | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| R52 D R53 A F R49 D F R56 D F

 | RB3 | B39 0 | | 3rd east of Spokane St - north half | Basic | None | Permeable pavement | 675 | PaveDrain | 555 | Vault with Overflow | 186 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| R53 A F R49 D R56 D

 | ND. | 559 0 | Known depth to impermeable layer around site | | Dasic | | Permeable pavement with | 075 | FaveDialli | 555 | | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| R53 A F R49 D R56 D

 | DDA | B65 1 | | Spokane St south of 3rd - west half | Basic (assumed) | Cisterns; (2) 22,500 | underdrain | 3825 | PaveDrain with underdrain | 2145 | MadWat | 450 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | RBC | B65 1 | | Spokane St south of 3rd - west han | Basic (assumed) | gallon | underdrain | 3825 | PaveDrain with underdrain | 3145 | ModWet | 450 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | | | Known depth to impermeable layer around or | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| R56 D

 | RB1 | 106 0 | | Spokane St south of 3rd - east half | Basic (assumed) | None | Permeable pavement | 900 | PaveDrain | 740 | ModWet | 189 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | | | Known depth to impermeable layer around site | | | | Permeable pavement with | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | RB7 | B71 0 | | Spokane St north of 3rd - west half | Basic (assumed) | Cistern; 19,000 gallon | underdrain | 1800 | PaveDrain with underdrain | 1480 | ModWet | 225 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | | | Known depth to impermeable layer around site | | | | Permeable pavement with | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | RB2 | B26 0 | | Grant between Sprague and 1st - west half | Basic (assumed) | Cistern; 11,500 gallon | underdrain | 1350 | PaveDrain with underdrain | 1110 | ModWet | 225 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | | | Known depth to impermeable layer around site | e | | | Permeable pavement with | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | RB3 | B33 0 | is not sufficient | Grant between Sprague and 1st - east half | Basic (assumed) | Cistern; 11,500 gallon | underdrain | 1350 | PaveDrain with underdrain | 1110 | ModWet | 225 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | RB2 | B24 0 | is not sufficient | Grant between 1st and Pacific - west half | Basic (assumed) | Cistern; 19,000 gallon | underdrain | 1800 | PaveDrain with underdrain | 1480 | ModWet | 225 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | | | Known depth to impermeable layer around site | 2 | | | Permeable pavement with | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | RB3 | B35 0 | is not sufficient | Grant between 1st and Pacific - east half | Basic (assumed) | Cistern; 22,500 gallon | underdrain | 2025 | PaveDrain with underdrain | 1665 | ModWet | 225 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | | | Known depth to impermeable layer around site | 2 | • | - | Permeable pavement with | | | | Bioretention/Bioinfiltration | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| R54 D F

 | DD1 | 0. | | Grant north of Sprague - west half | Basic (assumed) | Cistern; 2,000 gallon | underdrain | 337.5 | PaveDrain with underdrain | 277.5 | Vault with Overflow | 93 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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BMP	BMP		Basin Area						Footprint		Footprint		Footprint
Name	Classification	Basin ID	(ac)	Classification Justification	Basin Location	Runoff Treatment	Detention	Largest BMP Type	(sq. ft)	Second Largest BMP Type	(sq. ft)	Smallest BMP Type	(sq. ft)
				Known depth to impermeable layer around site				Permeable pavement with				Bioretention/Bioinfiltration	
R55	D	RB126	0.14	is not sufficient	Grant north of Sprague - east half	Basic (assumed)	Cistern; 2,000 gallon	underdrain	315	PaveDrain with underdrain	259	Vault with Overflow	86.8
				Known depth to impermeable layer around site				Permeable pavement with	010				
R64	D	RB33	0.6	is not sufficient	Sherman north of 1st - west half	Basic	Cistern; 11,500 gallon	underdrain	1350	PaveDrain with underdrain	1110	ModWet	225
- 110-1		11055		Known depth to impermeable layer around or		Busic			1350		1110	Modwee	
R66	А	RB35		on site is sufficient	Sherman between 1st and Pacific - west half	Basic	None	Permeable pavement	2025	PaveDrain	1665	ModWet	225
1.00	Α	11055		Known depth to impermeable layer around or	Sherman between 1st and racine west han	Busic	None		2025	Tavebian	1005	litiouwet	
R67	А	RB46		on site is sufficient	Sherman between 1st and Pacific - east half	Basic	None	Permeable pavement	1125	PaveDrain	925	ModWet	189
1.07	A	ND40		Known depth to impermeable layer around site	Sherman between 1st and Facine - east nam	Dasie	None	Permeable pavement with	1125	Tavebrain	525	Widdwet	105
R65	D	RB81		is not sufficient	Sherman north of 1st - east half	Basic	Cistern; 6,500 gallon	underdrain	900	PaveDrain with underdrain	740	ModWet	189
K05	D	NB01	-	Known depth to impermeable layer around or		Basic		underdrain	300		740	Wouwer	185
R68	^	RB36		on site is sufficient	Sherman between Pacific and 2nd - west	Basic	Nono	Bormoshlo payomont	2475	PaveDrain	2035	ModWet	450
<u> </u>	A	KD30			Sherman between Pacific and 2nd - west	Basic	None	Permeable pavement	2475	PaveDrain	2035	lviodwet	450
070	•	DD 42	I	Known depth to impermeable layer around or on site is sufficient	Charmon between 2nd and 2nd west half	Decie	Nene	Dormookla novement	1125	Devis Drain	0.25	D (a d) (a t	180
R70	A	RB42			Sherman between 2nd and 3rd - west half	Basic	None	Permeable pavement	1125	PaveDrain	925	ModWet	189
574		5542		Known depth to impermeable layer around or					450		270		447
R71	A	RB43		on site is sufficient	Sherman between 2nd and 3rd - east half	Basic	None	Permeable pavement	450	PaveDrain	370	ModWet	117
				Known depth to impermeable layer around or									
R69	A	RB45		on site is sufficient	Sherman between Pacific and 2nd - east	Basic	None	Permeable pavement	1800	PaveDrain	1480	ModWet	225
				Known depth to impermeable layer around site				Permeable pavement with					
R73	D	RB91	0.6	is not sufficient	Sherman south of 3rd - east half	Basic, metals, oil control (sorptive)		underdrain	1350	PaveDrain with underdrain	1110	ModWet	225
				Known depth to impermeable layer around site			Cisterns; (2) 8,500	Permeable pavement with					
R72	D	RB92	1	is not sufficient	Sherman south of 3rd - west half	Basic, metals, oil control (sorptive)	gallon	underdrain	2250	PaveDrain with underdrain	1850	ModWet	225
				Known depth to impermeable layer around site				Permeable pavement with				Bioretention/Bioinfiltration	
R60	D	RB39	0.3	is not sufficient	3rd east of Grant - north half	Basic	Cistern; 4,000 gallon	underdrain	675	PaveDrain with underdrain	555	Vault with Overflow	186
				Known depth to impermeable layer around site				Permeable pavement with					
R62	D	RB93	0.5	is not sufficient	Grant south of 3rd - west half	Basic (assumed)	Cistern; 8,500 gallon	underdrain	1125	PaveDrain with underdrain	925	ModWet	189
				Known depth to impermeable layer around site				Permeable pavement with				Bioretention/Bioinfiltration	
R61	D	RB41	0.3	is not sufficient	3rd east of Grant - north half	Basic	Cistern; 4,000 gallon	underdrain	675	PaveDrain with underdrain	555	Vault with Overflow	186
				Known depth to impermeable layer around site			Cisterns; (2) 8,500	Permeable pavement with					
R63	D	RB92	1	is not sufficient	Grant south of 3rd - east half	Basic (assumed)	gallon	underdrain	2250	PaveDrain with underdrain	1850	ModWet	225
				Known depth to impermeable layer on site is			Ŭ	Permeable pavement with					
R75	D	RB81		not sufficient	Sprague east of Sheridan - south half	Basic, metals, oil control (sorptive)	Cistern; 6,500 gallon	underdrain	900	PaveDrain with underdrain	740	ModWet	189
				Known depth to impermeable layer on site is			Cisterns; (4) 16,500	Permeable pavement with					
R74	D	RB94		not sufficient	Sprague east of Sheridan - north half	Basic, metals, oil control (sorptive)	gallon	underdrain	6075	PaveDrain with underdrain	4995	ModWet	675
				Area above historic lake; potential high	Sheridan south of 1st - west half, 1st east of		Banon	Permeable pavement with	0070				
R77	D	RB47	0.5	groundwater	Sheridan - south half	Basic (assumed)	Cistern; 8,500 gallon	underdrain	1125	PaveDrain with underdrain	925	ModWet	189
	U	11047		Area above historic lake; potential high			Cisterns; (2) 8,500	Permeable pavement with	1125		525	Modwee	105
R76	D	RB82		groundwater	1st east of Sheridan - north half	Basic (assumed)	gallon	underdrain	2250	PaveDrain with underdrain	1850	ModWet	225
K70	D	ND02		Area above historic lake; potential high		Basic (assumed)	galioli	Permeable pavement with	2230		1850	Wouwer	225
D70	D	RB84		groundwater	Sharidan batwaan 1st and Dasifia aast half	Basis (assumed)	Cistern; 2,000 gallon	underdrain	450	PaveDrain with underdrain	370	MadWot	117
R78	D	RB84	0.2	5	Sheridan between 1st and Pacific - east half	Basic (assumed)	Cistern; 2,000 gallon		450	PaveDrain with underdrain	370	ModWet	117
570	-	5545		Known depth to impermeable layer around site	Charidan batur an Darifia and Qual supet half		Cistom 10.000 seller	Permeable pavement with	1000	Deve Device with words advaire	1 4 9 9		225
R79	D	RB45		is not sufficient	Sheridan between Pacific and 2nd - west half	Basic (assumed)	Cistern; 19,000 gallon	underdrain	1800	PaveDrain with underdrain	1480	ModWet	225
	_		I	Known depth to impermeable layer around site				Permeable pavement with					100
R80	D	RB85		is not sufficient	Sheridan between Pacific and 2nd - east half	Basic (assumed)	Cistern; 8,500 gallon	underdrain	1125	PaveDrain with underdrain	925	ModWet	189
			I	Known depth to impermeable layer around site				Permeable pavement with					
R83	D	RB87		is not sufficient	Sheridan between 2nd and 3rd - west half	Basic (assumed)	Cistern; 16,500 gallon	underdrain	1575	PaveDrain with underdrain	1295	ModWet	225
				Known depth to impermeable layer around site				Permeable pavement with					
R84	D	RB88	0.8	is not sufficient	Sheridan between 2nd and 3rd - east half	Basic (assumed)	Cistern; 19,000 gallon	underdrain	1800	PaveDrain with underdrain	1480	ModWet	225
				Known depth to impermeable layer on site is				Permeable pavement with					
R81	D	RB44		not sufficient	2nd east of Sheridan - north half	Basic, metals	Cistern; 2,000 gallon	underdrain	450	PaveDrain with underdrain	370	ModWet	117
				Known depth to impermeable layer on site is				Permeable pavement with					1
R82	D	RB87	0.7	not sufficient	2nd east of Sheridan - south half	Basic, metals	Cistern; 16,500 gallon	underdrain	1575	PaveDrain with underdrain	1295	ModWet	225
				Area above historic lake; potential high			Cisterns; (2) 8,500	Permeable pavement with					
R85	D	RB82	1	groundwater	Hatch between Sprague and 1st - west half	Basic (assumed)	gallon	underdrain	2250	PaveDrain with underdrain	1850	ModWet	225
				Area above historic lake; potential high				Permeable pavement with					
R86	D	RB96		groundwater	Hatch between Sprague and 1st - east half	Basic (assumed)	Cistern; 6,500 gallon	underdrain	900	PaveDrain with underdrain	740	ModWet	189
				Area above historic lake; potential high				Permeable pavement with					1
R87	D	RB83	0.8	groundwater	Hatch between 1st and Pacific - west half	Basic (assumed)	Cistern; 19,000 gallon	underdrain	1800	PaveDrain with underdrain	1480	ModWet	225
	-			~			, ,						

BMP	BMP		Basin Area						Footprint		Footprint		Footprint
Name	Classification	Basin ID	(ac)	Classification Justification	Basin Location	Runoff Treatment	Detention	Largest BMP Type	(sq. ft)	Second Largest BMP Type	(sq. ft)	Smallest BMP Type	(sq. ft)
				Area above historic lake; potential high				Permeable pavement with					
R88	D	RB99	0.8	groundwater	Hatch between 1st and Pacific - east half	Basic (assumed)	Cistern; 19,000 gallon	underdrain	1800	PaveDrain with underdrain	1480	ModWet	225
				Known depth to impermeable layer around or									
R89	А	RB83	0.8	on site is sufficient	Pacific west of Hatch - north half	Basic (assumed)	None	Permeable pavement	1800	PaveDrain	1480	ModWet	225
				Known depth to impermeable layer around or				· · ·					
R90	А	RB86	0.5	on site is sufficient	Pacific west of Hatch - south half	Basic (assumed)	None	Permeable pavement	1125	PaveDrain	925	ModWet	189
				Known depth to impermeable layer around site				Permeable pavement with					
R91	D	RB86	0.5	is not sufficient	Hatch between Pacific and 2nd - west half	Basic (assumed)	Cistern; 8,500 gallon	underdrain	1125	PaveDrain with underdrain	925	ModWet	189
				Known depth to impermeable layer around site				Permeable pavement with					
R92	D	RB100	0.7	is not sufficient	Hatch between Pacific and 2nd - east half	Basic (assumed)	Cistern; 16,500 gallon	underdrain	1575	PaveDrain with underdrain	1295	ModWet	225
				Known depth to impermeable layer around or									
R93	А	RB85	0.5	on site is sufficient	2nd west of Hatch - north half	Basic, metals	None	Permeable pavement	1125	PaveDrain	925	ModWet	189
				Known depth to impermeable layer around or		·		·					
R94	А	RB88	0.8	on site is sufficient	2nd west of Hatch - south half	Basic, metals	None	Permeable pavement	1800	PaveDrain	1480	ModWet	225
				Known depth to impermeable layer around site		·		Permeable pavement with					
R95	D	RB88	0.8	is not sufficient	Hatch between 2nd and 3rd - west half	Basic (assumed)	Cistern; 19,000 gallon	underdrain	1800	PaveDrain with underdrain	1480	ModWet	225
				Known depth to impermeable layer around site				Permeable pavement with					
R96	D	RB102	0.4	is not sufficient	Hatch between 2nd and 3rd - east half	Basic (assumed)	Cistern; 6,500 gallon	underdrain	900	PaveDrain with underdrain	740	ModWet	189
			-	Known depth to impermeable layer around or									
R98	А	RB110	0.7	on site is sufficient	Scott north of 1st - east half	Basic (assumed)	None	Permeable pavement	1575	PaveDrain	1295	ModWet	225
			-	Known depth to impermeable layer around or									
R97	А	RB97	0.4	on site is sufficient	Scott north of 1st - west half	Basic (assumed)	None	Permeable pavement	900	PaveDrain	740	ModWet	189
				No evidence of depth to impermeable layer or									
R99	А	RB98	0.2	groundwater around or on site	Scott between 1st and Pacific - west half	Basic (assumed)	None	Permeable pavement	450	PaveDrain	370	ModWet	117
			0.2	No evidence of depth to impermeable layer or									
R100	А	RB100	0.7	groundwater around or on site	Scott between 1st and Pacific - east half	Basic (assumed)	None	Permeable pavement	1575	PaveDrain	1295	ModWet	225
11100			0.7	No evidence of depth to impermeable layer or		2000 (00000000)			2070				
R101	А	RB101	0.4	groundwater around or on site	Scott north of 2nd - west half	Basic (assumed)	None	Permeable pavement	900	PaveDrain	740	ModWet	189
			0.1	No evidence of depth to impermeable layer or		Basic (assumed)			500		, 10	linduviet	105
R102	А	RB110	0.7	groundwater around or on site	Scott north of 2nd - east half	Basic (assumed)	None	Permeable pavement	1575	PaveDrain	1295	ModWet	225
11102			0.7	Known depth to impermeable layer around site		Basic (assumed)	Cisterns; (2) 16,500	Permeable pavement with	1373		1233	lindutiet	
R107	D	RB107	1.5	is not sufficient	2nd east of Scott - north half	Basic, metals	gallon	underdrain	3375	PaveDrain with underdrain	2775	ModWet	450
1107		ND107	1.5	Known depth to impermeable layer around site		Busic, metals	guion	Permeable pavement with	3373		2//3	Mouvee	450
R108	D	RB111	0.9	is not sufficient	2nd east of Scott - south half	Basic, metals	Cistern; 22,500 gallon	underdrain	2025	PaveDrain with underdrain	1665	ModWet	225
			0.0	Known depth to impermeable layer around or		2000)					1000		
R105	А	RB103	0.6	on site is sufficient	Scott south of 2nd - west half	Basic (assumed)	None	Permeable pavement	1350	PaveDrain	1110	ModWet	225
11105		110100	0.0	Known depth to impermeable layer around or		Basic (assumed)			1000			linduviet	
R106	Δ	RB111	0.9	on site is sufficient	Scott south of 2nd - east half	Basic (assumed)	None	Permeable pavement	2025	PaveDrain	1665	ModWet	225
N100		NDIII	0.5	Known depth to impermeable layer around site		busic (ussumed)		Permeable pavement with	2025		1005	Mouvee	225
R103	D	RB101	0.4	is not sufficient	2nd west of Scott - north half	Basic, metals	Cistern; 6,500 gallon	underdrain	900	PaveDrain with underdrain	740	ModWet	189
11105			0.1	Known depth to impermeable layer around site		2000)		Permeable pavement with					100
R104	D	RB103	0.6	is not sufficient	2nd west of Scott - south half	Basic, metals	Cistern; 11,500 gallon	underdrain	1350	PaveDrain with underdrain	1110	ModWet	225
1104		110100	0.0	Known depth to impermeable layer around or	3rd east of Sprague Scott intersection - north				1000			inouriet	223
R109	А	RB112	0.9	on site is sufficient	half	Basic	None	Permeable pavement	2025	PaveDrain	1665	ModWet	225
11105		- HBIIL	0.5	Known depth to impermeable layer around or	3rd east of Sprague Scott intersection - south				2023	i diceliuni	1005	linduret	
R110	А	RB104	1.3	on site is sufficient	half	Basic	None	Permeable pavement	2925	PaveDrain	2405	ModWet	450
MIIO		ND104	1.5	No evidence of depth to impermeable layer or		Busic	None		2525		2405	Mouvee	450
R111	А	RB113	0.8	groundwater around or on site	2nd east of Sprague - north half	Basic, metals	None	Permeable pavement	1800	PaveDrain	1480	ModWet	225
NIII	~	ND115	0.0	No evidence of depth to impermeable layer or		Dasic, metals	None		1000	Tavebrain	1400	Mouwer	225
R112	А	RB111	0.9	groundwater around or on site	2nd east of Sprague - south half	Basic, metals	None	Permeable pavement	2025	PaveDrain	1665	ModWet	225
NIIZ	~	NDIII	0.9	Area above historic lake; potential high				Permeable pavement with	2025		1002	widdwet	223
R113	D	RB113	0.8	groundwater	Arthur north of 2nd - west half	Basic (accumed)	Cistorn: 10,000 coller	underdrain	1800	PaveDrain with underdrain	1480	ModWet	225
C112	U	C113	0.0	Area above historic lake; potential high		Basic (assumed)	Cistern; 19,000 gallon		1000	PaveDrain with underdrain	1460	Bioretention/Bioinfiltration	225
D114	D	DD114	0.2		Arthur porth of 2nd cost half	Pasia (assumed)	Cistorn 4 000 colles	Permeable pavement with	675		555		106
R114	U	RB114	0.3	groundwater Known depth to impermeable layer around site	Arthur north of 2nd - east half	Basic (assumed)	Cistern; 4,000 gallon	underdrain Permeable pavement with	675	PaveDrain with underdrain	555	Vault with Overflow	186
		DD113	0.0	is not sufficient	Arthur between 2nd and 3rd - west half	Pacia	Cistorn: 22 E00 coller	underdrain	2025	PaveDrain with underdrain	1665	ModWet	225
R115	D	RB112	0.9			Basic	Cistern; 22,500 gallon		2025	PaveDrain with underdrain	2002	iviouwet	225
		RB115	0.8	Known depth to impermeable layer around site is not sufficient	Arthur between 2nd and 3rd - east half	Basic	Cistern; 19,000 gallon	Permeable pavement with underdrain	1800	PaveDrain with underdrain	1480	ModWet	225
R116	D					Basic		underorain	1 1800	r Favenian win underdrain	1480	IVIOOVVAT	1 // 7

BMP	BMP		Basin Area		1	1	1		Footprint		Footprint		Footprint
Name	Classification	Basin ID	(ac)	Classification Justification	Basin Location	Runoff Treatment	Detention	Largest BMP Type	(sq. ft)	Second Largest BMP Type	(sq. ft)	Smallest BMP Type	(sq. ft)
Nume	clussification	Basinin	(40)	Known depth to impermeable layer around site	Bushi Eocution		Cisterns; (2) 13,000	Permeable pavement with	(39.17)	Second Edigest Divil Type	(39.10)		(39.10)
R118	п	RB104	1.3	is not sufficient	3rd west of Arthur - south half	Basic	gallon	underdrain	2925	PaveDrain with underdrain	2405	ModWet	450
MIIO	5	ND104	1.5	Known depth to impermeable layer around site	Sid West of Artiful South full	Dusie	guion	Permeable pavement with	2525		2405	iniouver	
R117	р	RB112	0.9	is not sufficient	3rd west of Arthur - north half	Basic	Cistern; 22,500 gallon	underdrain	2025	PaveDrain with underdrain	1665	ModWet	225
	5	NDIIZ	0.5	Known depth to impermeable layer around site		Dusie		Permeable pavement with	2025		1005	iniouver	
R120	D	RB105	0.5	is not sufficient	Arthur south of 3rd - east half	Basic, metals, oil control (sorptive)	Cistern; 8,500 gallon	underdrain	1125	PaveDrain with underdrain	925	ModWet	189
1120	5		0.5	Known depth to impermeable layer around site			Cisterns; (2) 13,000	Permeable pavement with			525		
R119	D	RB104	1.3	is not sufficient	Arthur south of 3rd - west half	Basic, metals, oil control (sorptive)	gallon	underdrain	2925	PaveDrain with underdrain	2405	ModWet	450
	5		1.5	Known depth to impermeable layer around or			84.000				2.00		
R122	Δ	RB124	0.8	on site is sufficient	Front west of Denver - south half	Basic (assumed)	None	Permeable pavement	1800	PaveDrain	1480	ModWet	225
1122	<u> </u>	ND121	0.0	Known depth to impermeable layer around or					1000		1100		
R121	Δ	RB118	0.4	on site is sufficient	Front west of Denver - north half	Basic (assumed)	None	Permeable pavement	900	PaveDrain	740	ModWet	189
	<u> </u>	NDIIO	0.4	Known depth to impermeable layer around or			None		500	Tuvebium	740	Mouvee	
R123	Δ	RB122	0.4	on site is sufficient	Front east of Denver - north half	Basic (assumed)	None	Permeable pavement	900	PaveDrain	740	ModWet	189
1125	<u> </u>	NDIZZ	0.4	Known depth to impermeable layer around or			None		500	Tuvebruit	740	Mouver	
R124	Δ	RB123	1.1	on site is sufficient	Front east of Perry - north half	Basic (assumed)	None	Permeable pavement	2475	PaveDrain	2035	ModWet	450
1124		ND125	1.1	No evidence of depth to impermeable layer or		Undeveloped; assume basic for	None		2475	Taveblain	2055	Wouver	+30
U1	А	UB17	0.98	groundwater around or on site	Riverpoint	developed conditions	none	Permeable pavement	2203	PaveDrain	1811	Modular Wetland	225
01		0017	0.50	Area above historic lake; potential high		Undeveloped; assume basic for	none	Permeable pavement with	2205	Tavebrain	1011		
U2	D	UB15	0.57	groundwater	Southwest of intersection of Riverside and Grant	· · ·	Cistern; 11,500 gallons	underdrain	1284	PaveDrain with underdrain	1056	Modular Wetland	225
02	5	0015	0.57	No evidence of depth to impermeable layer or	Southwest of intersection of inverside and Grant	Undeveloped; assume basic for		undertrain	1204		1050		
U3	^	UB0	0.42	groundwater around or on site	Southeast of intersection of 1st and Spokane	developed conditions	none	Permeable pavement	942	PaveDrain	776	Modular Wetland	189
03	~	000	0.42	No evidence of depth to impermeable laver or	Southeast of intersection of 1st and spokane	Undeveloped; assume basic for	none		542	Tavebrain	770		
U4	^	UB6, UB7	0.42	groundwater around or on site	Southeast of intersection of 3rd and Spokane	developed conditions	none	Permeable pavement	942	PaveDrain	776	Modular Wetland	189
04	A	060, 067	0.42	No evidence of depth to impermeable layer or		Undeveloped; assume basic for	none		542	Favebrain	770		185
U5	^	UB1	0.31	groundwater around or on site	North of Pacific between Spokane and Grant	developed conditions	none	Permeable pavement	696	PaveDrain	573	Modular Wetland	189
05	A	OBI	0.51			Undeveloped; assume basic for	none		090	Favebrain	575		185
U6	^	UB8, UB9	0.4	Depth to impermeable layer is 5-10 feet on site	North of 5th between Chandler and Grant	developed conditions	none	Permeable pavement	898	PaveDrain	739	Modular Wetland	189
00	A	068, 069	0.4	Known depth to impermeable layer around site		Undeveloped; assume basic for	none	Permeable pavement with	898	FaveDiaiii	739		185
U7	D	UB2	0.62	is not sufficient	South of the intersection of Pacific and Grant	developed conditions	Cistern; 13,000 gallons	underdrain	1396	PaveDrain with underdrain	1148	Modular Wetland	225
07	D	UBZ	0.02		Southwest of the intersection of 2nd and	Undeveloped; assume basic for	Cisterii, 15,000 galiolis	Permeable pavement with	1390		1140		
U8	р	UB5	0.17	is not sufficient	Sherman	developed conditions	Cistern; 2,000 gallons	underdrain	384	PaveDrain with underdrain	315	Modular Wetland	117
08		065	0.17	Known depth to impermeable layer around site		Undeveloped; assume basic for	Cisterri, 2,000 galioris	Permeable pavement with	564		515	Bioretention/Bioinfiltration	<u> </u>
1110	D	UB10	0.1	is not sufficient	South of 2nd botwoon Spott and Sprague Access	· · ·	Cistorn, 2,000 gallons	underdrain	225	Dave Drain with underdrain	185	·	62
U10	U	OPIO	0.1		South of 2nd between Scott and Sprague Access North of the intersection of Sprague and	Undeveloped; assume basic for	Cistern; 2,000 gallons	Permeable pavement with	225	PaveDrain with underdrain	105	Vault with Overflow	02
110	р	UB13	0.45	is not sufficient	1 0	· · ·	Cistorn, 8 E00 gallons		1010	Dave Drain with underdrain	832	Modular Matland	189
U9	U		0.45		Sherman	developed conditions	Cistern; 8,500 gallons Cisterns; (2) 22,500	underdrain Permeable pavement with	1010	PaveDrain with underdrain	052	Modular Wetland	169
1111		UB11, UB12	1 75	Known depth to impermeable layer around site	Southoast of intersection of 2rd and Arthur	Undeveloped; assume basic for		•	2020	Dave Drain with underdrain	2220	Modular Matland	450
U11	D	OBIZ	1.75	is not sufficient No evidence of depth to impermeable layer or	Southeast of intersection of 3rd and Arthur	developed conditions	gallon	underdrain	3938	PaveDrain with underdrain	3238	Modular Wetland	450
1112	•	0001	0.02	groundwater around or on site	Intersection of Erie and future MLK Alignment	Undeveloped; assume basic for developed conditions		Permeable pavement	1040	PavoDrain	1515	Modular Wetland	225
U12	A	UB20	0.82	6			none		1843	PaveDrain	1515		225
114.2		1010	1.07	No evidence of depth to impermeable layer or	North of Front between Denver and Perry	Undeveloped; assume basic for		Dormonoble neuroment	4200	Devis Drein	2460		450
U13	A	UB18	1.87	groundwater around or on site	North of Front between Deriver and Perry	developed conditions	none	Permeable pavement	4208	PaveDrain	3460	Modular Wetland	450
		11540	1.01	No evidence of depth to impermeable layer or		Undeveloped; assume basic for			2272		1000		450
U14	A	UB19	1.01	groundwater around or on site	South of Trent between Perry and Hogan	developed conditions	none	Permeable pavement	2273	PaveDrain	1869	Modular Wetland	450
C1		0040		Known depth to impermeable layer around or	North of Diverside between Control Charles	Undeveloped; assume basic for	Cisterns; (2) 11,500	Permeable pavement with	2700		2222	Madulautat	450
C1	D	CB16	1.2	on site is not sufficient	North of Riverside between Grant and Sheridan	developed conditions	gallon	underdrain	2700	PaveDrain with underdrain	2220	Modular Wetland	450
		<u></u>		No evidence of depth to impermeable layer or		Undeveloped; assume basic for	Cisterns; (2) 22,500		<i></i>			Modular Wetland ((3) MWS	
C2	A	CB25	2.73	groundwater around or on site	North of intersection of Riverside and Sheridan	developed conditions	gallon, (1) 2,000 gallon	Permeable pavement	6143	PaveDrain	5051	8-34)	675
				Known depth to impermeable layer on site is >5	North of Sprague between Scott and Sprague								
S1	A	SB1	0.88	feet	Access	Basic	none	Permeable pavement	1978	PaveDrain	1626	Modular Wetland	225
						Undeveloped; assume basic for							
U6	A	UB8, UB9	0.4	Depth to impermeable layer is 5-10 feet on site	North of 5th between Chandler and Grant	developed conditions	none	Permeable pavement	898	PaveDrain	739	Modular Wetland	189