Riverfront Park Utility Guidelines

Prepared for

City of Spokane Parks and Recreation Department REV. 1.0

August 2016



SECTION 1

Purpose

1.1 Document Purpose

The purpose of the Riverfront Park Utilities Master Plan is to provide designers of projects within Riverfront Park utilities information that can assist them as they develop site utility plans for their projects. This document:

- 1. Gathers in one location schematic mapping of underground utilities within the boundaries of Riverfront Park;
- 2. Illustrates locations of proposed utilities that have been established either through detailed design or conceptual layout;
- 3. Provides guidance on responsibilities for the design and construction of future utility improvements within the park.

Existing Utilities

2.1 Scope and Limitations

The Existing Utility Schematic contained herein is intended as a schematic depiction of where existing utilities are thought to be located, based on various data sources (described below), and should not be assumed to reflect a comprehensive inventory of all utility assets within the park. No physical investigation, such as potholing, was performed to establish underground utility locations; readily observable utility features at ground level were electronically surveyed where such surveys were conducted for project design.

The following utilities are shown on the Existing Utility Schematic:

- Water City of Spokane Water Department
- Sanitary sewer City of Spokane Wastewater Management
- Storm sewer City of Spokane Parks & Recreation
- Electrical Avista Utilities
- Natural gas Avista Utilities
- Communications City of Spokane IT Department
- Communications City of Spokane Street Department
- Communications CenturyLink

Note that additional information regarding electrical and irrigation infrastructure is included in separate project documents that focus specifically on these utilities.

2.2 Data Sources for Existing Utility Schematic

Three primary sources of data were utilized to compile the information shown in the Existing Utility Schematic: information obtained directly from utility providers, through either direct communication or the Preliminary Utility Notice; Geographic Information System (GIS) mapping; and field surveys. Where two or more data sources were obtained for the same infrastructure, all data was included on the drawing – no editing of the data sets was performed to rectify the sources with one another.

2.2.1 Preliminary Utility Notices

In support of the Utility Guidelines Master Plan, the City of Spokane Engineering Department sent a Preliminary Utility Notice to all non-City utilities that they typically contact prior to commencing design on City public works projects. The purpose of the notice is to inquire if:

- the utility has assets within the project limits (Riverfront Park, in this case);
- the project will impact the utility's assets, if present;
- the utility is planning to construct additional infrastructure within the project limits.

Table 1 shows the utilities that responded to the Preliminary Utility Notice, along with their responses to the queries.

Table 1. Responses to Preliminary Utility Notice

Utility Provider	Infrastructure within Project Limits	Impacts Due to Project	Proposed Construction within Project Limits
AT&T Communications	Yes	Possible	No
Avista Utilities - Electrical	Yes	Yes	Yes
Avista Utilities – Natural Gas	Yes	Yes	No
CenturyLink	Yes	Yes	No
Comcast	No	No	No
Inland Power & Light	No	No	No
Level 3	No	No	No
OSP Engineer Spokane Integra Telecom	No	No	No
Tesoro Logistics	No	No	No
Williams NW Pipeline	No	No	No
XO Communications	Yes	Possible	No
Yellowstone Pipeline Co.	No	No	No
Zayo Fiber & Transport Infrastructure	No	No	No

2.2.2 GIS Mapping

Digital GIS mapping was obtained from the City of Spokane and Avista Utilities. The utilities shown in the City GIS data included water, sanitary sewer, storm sewer, and communications. The Avista Utilities GIS data included electrical and natural gas infrastructure. Both data sets were inserted into the Existing Utility Schematic at a common base point, and modified only as necessary to enhance readability.

2.2.3 Field Surveys

At the direction of City of Spokane Parks & Recreation, several project areas within Riverfront Park have been surveyed by Adams & Clark, Inc. The scope of these surveys included recording the location of utility surface features, such as manhole lids, fire hydrants, and utility boxes. The utility information from these surveys was inserted into the Existing Schematic Plan, at the same base point used for the GIS data. The survey information was modified only as necessary to enhance readability.

Proposed Utilities

3.1 Scope and Limitations

Two types of proposed improvements are shown in the Proposed Utility Schematic:

- Category 1 Proposed mainline (or 'backbone') utility lines
- Category 2 Proposed utility service lines

Category 1

The utility providers who stated in their response to the Preliminary Utility Notice that they intend to construct new mainline infrastructure within Riverfront Park, along with the City utility departments, were contacted directly for information on proposed utility size and location. The information shown on the Proposed Utility Schematic should only be considered to be developed to a conceptual level; the designer should contact the utility purveyor prior to beginning any detailed design that is based on Category 1 information.

Category 2

Utility improvements that have undergone detailed engineering design are designated as Category 2 utilities. The information on the Proposed Utility Schematic for these utilities can be considered more accurate and reliable than the Category 1 information. Nonetheless, this is not documentation of the as-constructed conditions. Therefore, the designer should contact the applicable utility purveyor to gather additional details on the lines.

3.2 Responsibilities for Design and Construction

Responsibility for design and construction of utility improvements within Riverfront Park will vary, depending on the type of utility; whether it's associated with a defined park project; whether the improvement is considered routine maintenance; or if it's being driven by the necessities of a project.

See Table 2 for a general assignment of responsibilities.

Table 2. Responsibility Matrix for Proposed Utility Improvements

	Engineering Design	Lead Design Review	Construction Funding	Construction Inspection
Utility Type				
City of Spokane IT Communications	City of Spokane IT or consultant	City of Spokane IT	City of Spokane IT	City of Spokane IT
City of Spokane Street/Signal Communications	City of Spokane Street Dept or consultant	City of Spokane Street Dept	City of Spokane Street Dept	City of Spokane Street Dept
City of Spokane Water Main	City of Spokane Water Dept or consultant	City of Spokane Water Dept	City of Spokane Water Dept	City of Spokane Water Dept
City of Spokane Sanitary Sewer - Storm Sewer Main	City of Spokane Wastewater Mgt	City of Spokane Wastewater Mgt	City of Spokane Wastewater Mgt	City of Spokane Wastewater Mgt
Avista Utilities Electrical (Medium Voltage)	Avista Utilities or consultant	Avista Utilities	Avista Utilities and City of Spokane Parks & Recreation	Avista Utilities
Misc Utility Services for Individual Projects Within Riverfront Park	Project consultant	Utility owner	City of Spokane Parks & Recreation	Utility owner

3.3 Design Standards

Designers of utility systems within Riverfront Park should consult the following documents for applicable technical requirements and construction standards. Private utility purveyors should be contacted directly to obtain their specific requirements for a particular project location.

Wate

City of Spokane, Department of Engineering Services, 2007. 'Design Standards.'

https://mv.spokanecity.org/business/bid-and-design/design-standards/

City of Spokane, 2015. 'City of Spokane Standard Plans.' https://my.spokanecity.org/business/bid-and-design/standard-plans/

Stormwater

City of Spokane, Department of Engineering Services, 2007. 'Design Standards'

https://my.spokanecity.org/business/bid-and-design/design-standards/

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City of Spokane, 2015. 'City of Spokane Standard Plans.' https://mv.spokanecity.org/business/bid-and-design/standard-plans/

Ecology, 2013. 'Eastern Washington Low Impact Development Guidance Manual.' Prepared by AHBL and HDR for Washington State Department of Ecology.

http://www.wastormwatercenter.org/ew-lid-guidance-manual/

Spokane County, 2008. 'Spokane Regional Stormwater Manual.' Prepared by Spokane County, City of Spokane, and City of Spokane Valley. https://www.spokanecounty.org/DocumentCenter/View/1640

Washington State Department of Ecology, 2004. 'Stormwater Management Manual for Eastern Washington.' Washington State Department of Ecology, Publication Number 04-10-076.

https://fortress.wa.gov/ecy/publications/summarypages/0410076.html

Wastewater

City of Spokane, Department of Engineering Services, 2007. 'Design Standards.'

https://my.spokanecity.org/business/bid-and-design/design-standards/

City of Spokane, 2015. 'City of Spokane Standard Plans.' https://my.spokanecity.org/business/bid-and-design/standard-plans/

Information Technology

City of Spokane, Department of Engineering Services, 2007. 'Design Standards.'

https://my.spokanecity.org/business/bid-and-design/design-standards/

City of Spokane, 2015. 'City of Spokane Standard Plans.' https://my.spokanecity.org/business/bid-and-design/standard-plans/

Traffic Signals & Lighting

City of Spokane, Department of Engineering Services, 2007. 'Design Standards.

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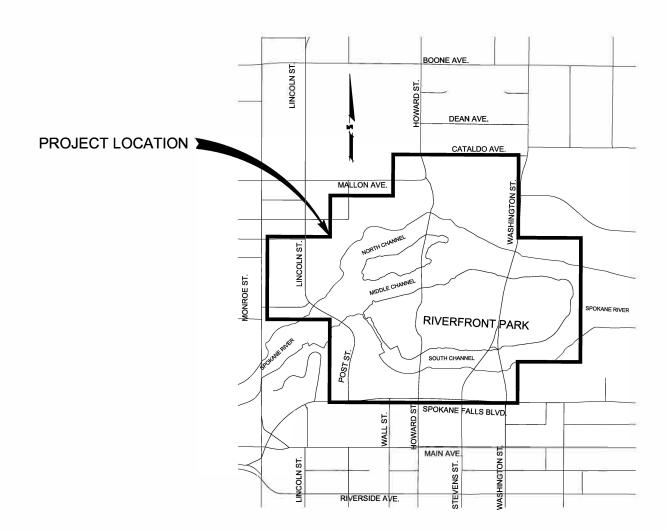
City of Spokane, 2015. 'City of Spokane Standard Plans.' https://my.spokanecity.org/business/bid-and-design/standard-plans/

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CITY OF SPOKANE, WASHINGTON

DEPARTMENT OF PARKS AND RECREATION

RIVERFRONT PARK - UTILITY COMPILATION





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EXISTING UTILITY SCHEMATIC

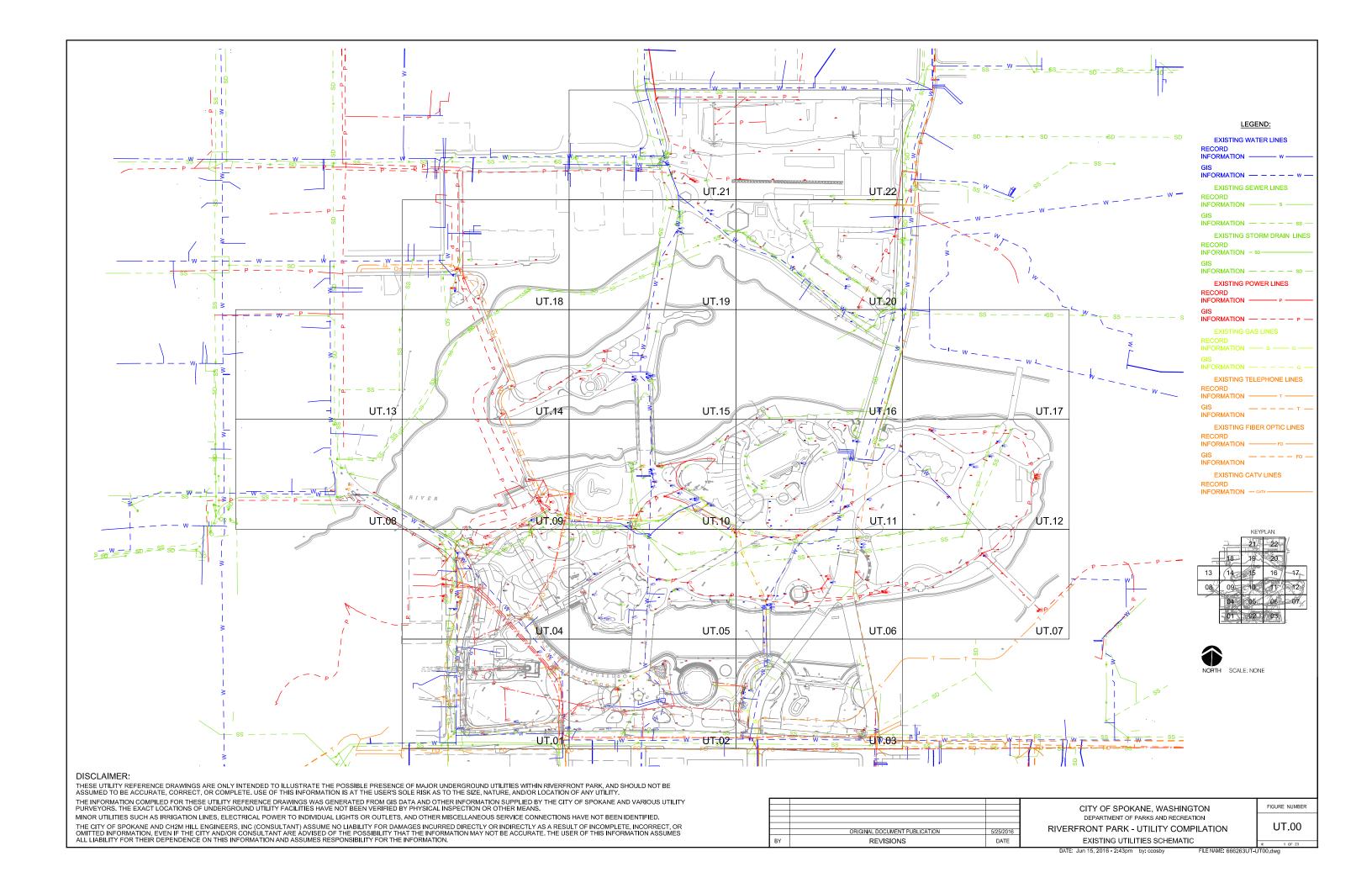
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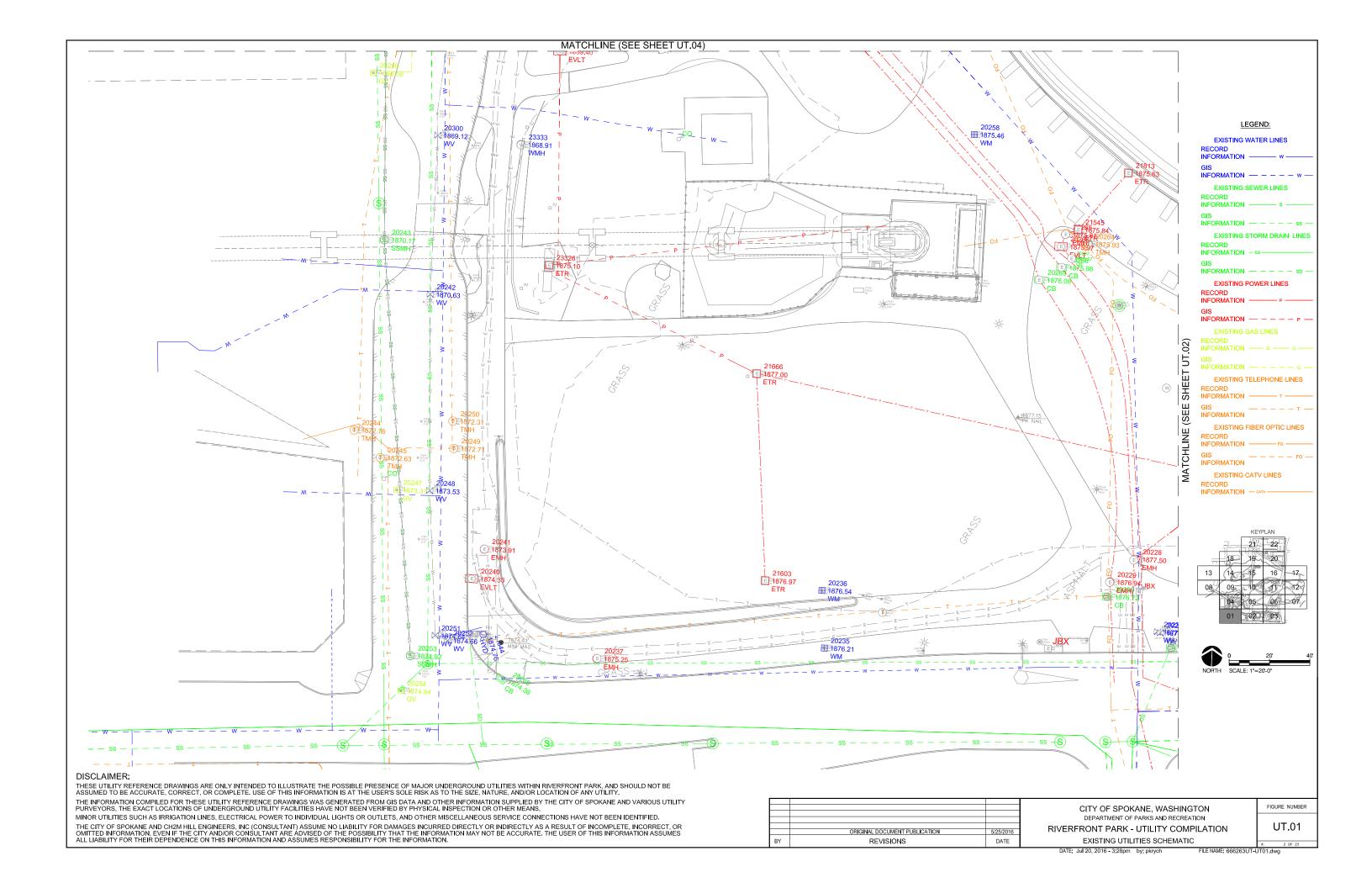
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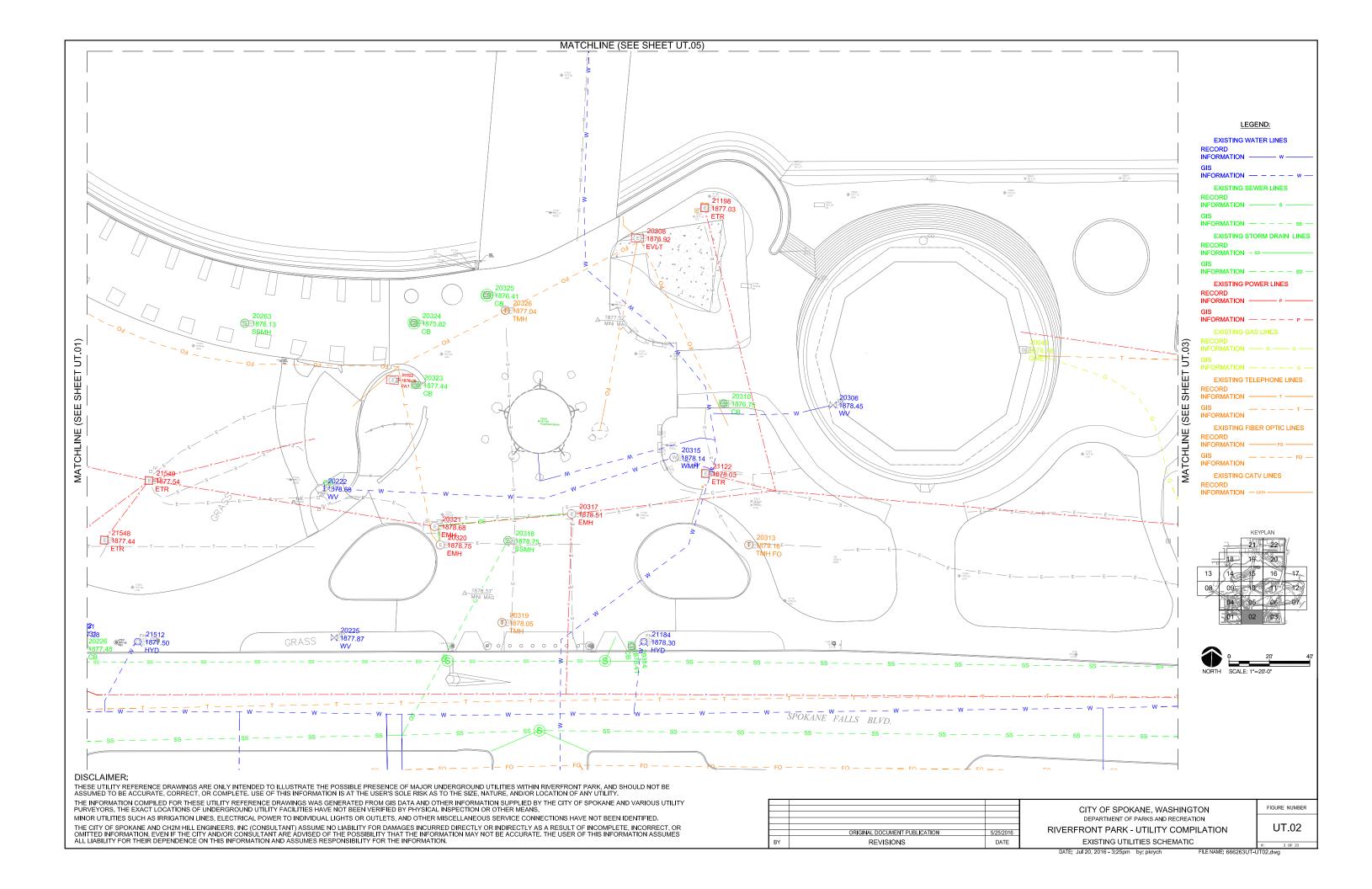
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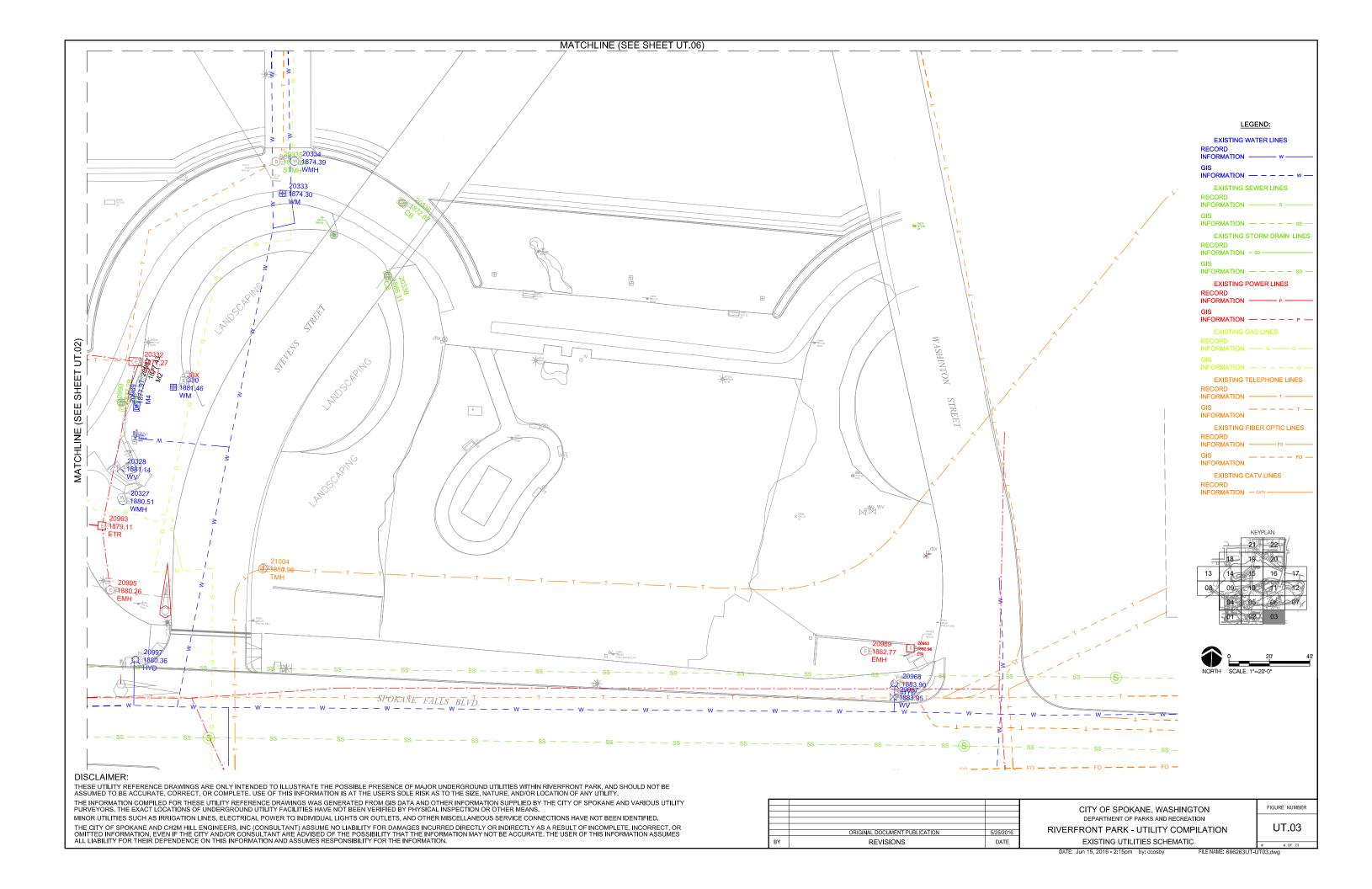
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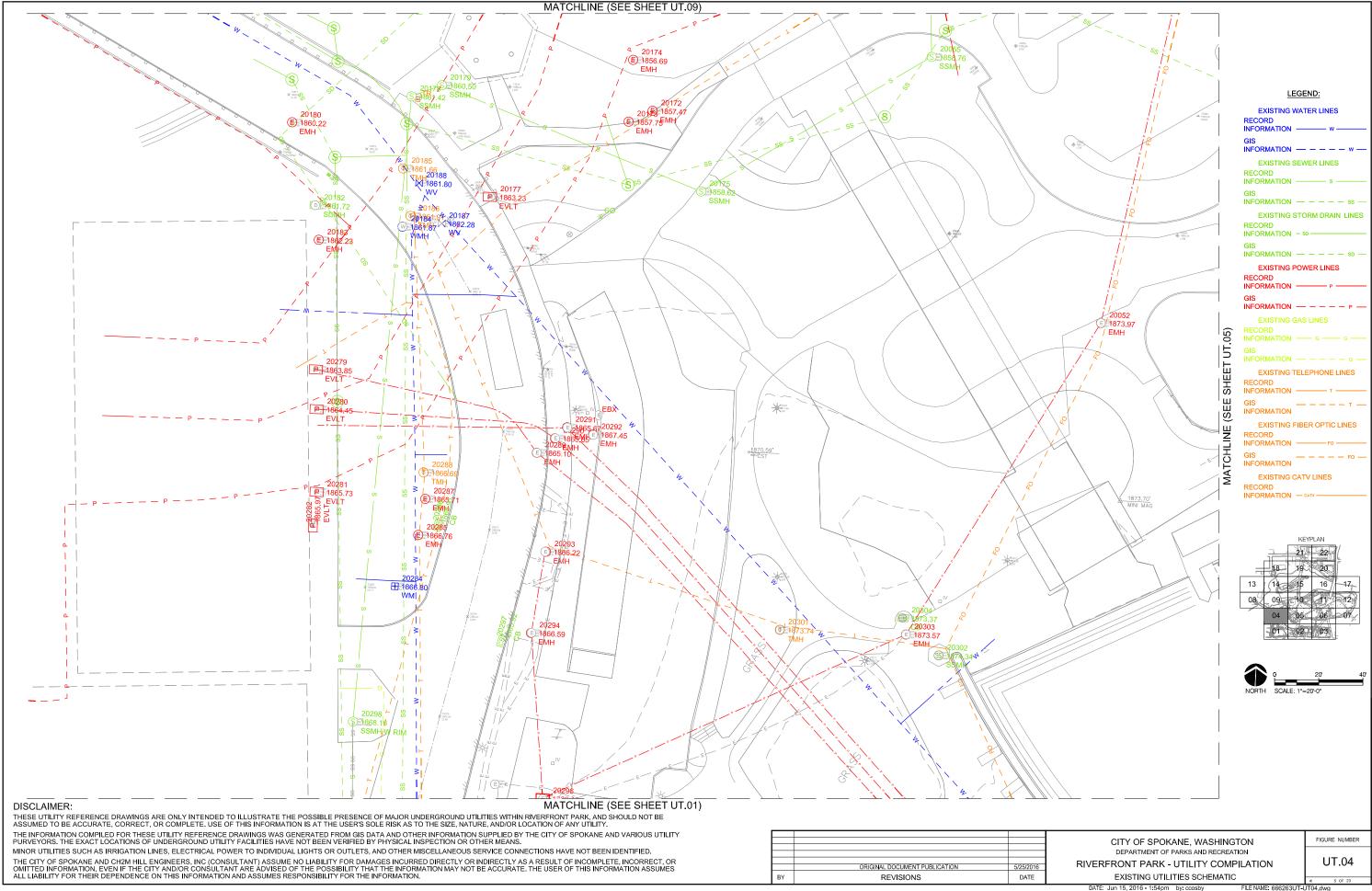
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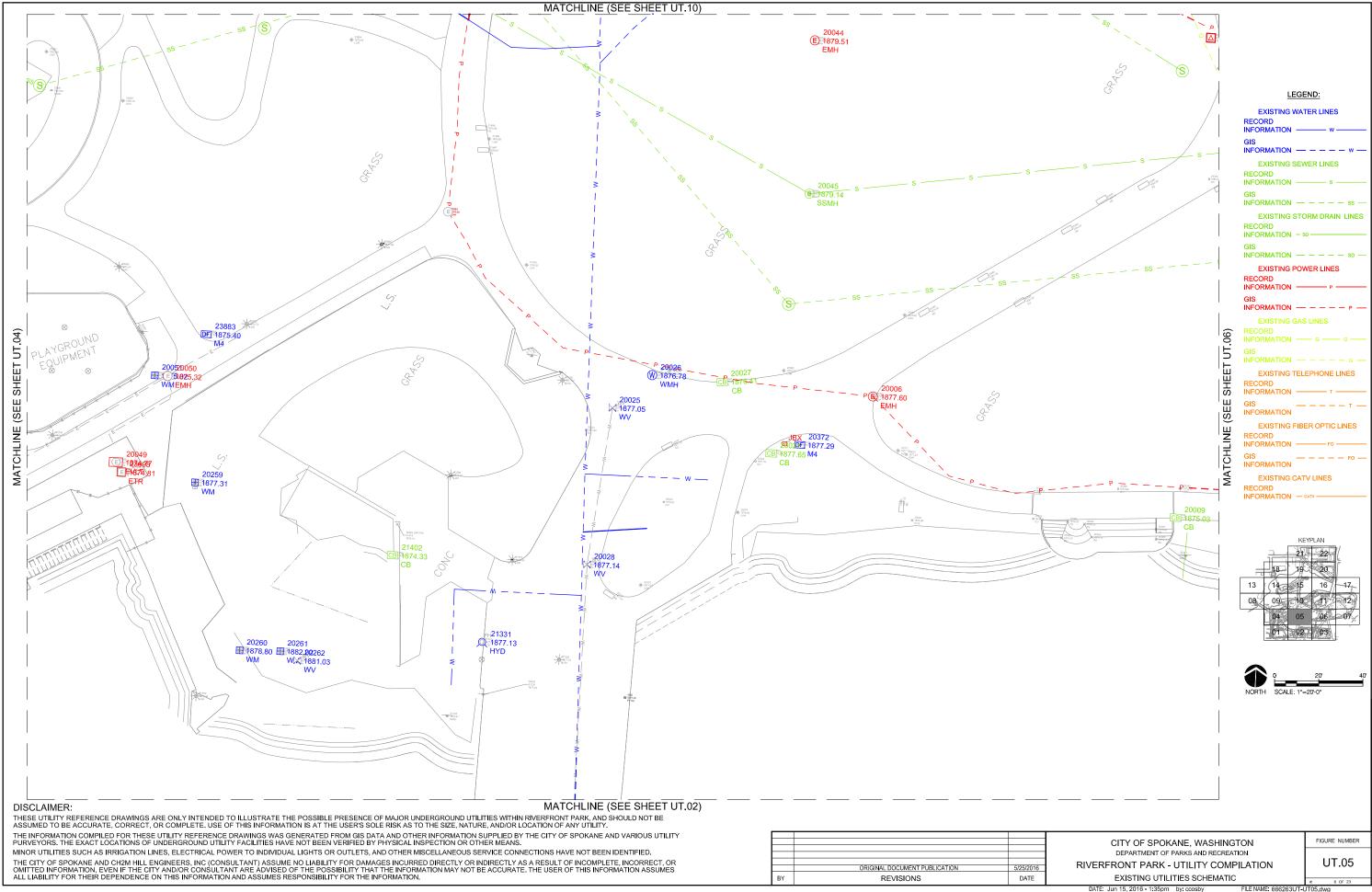


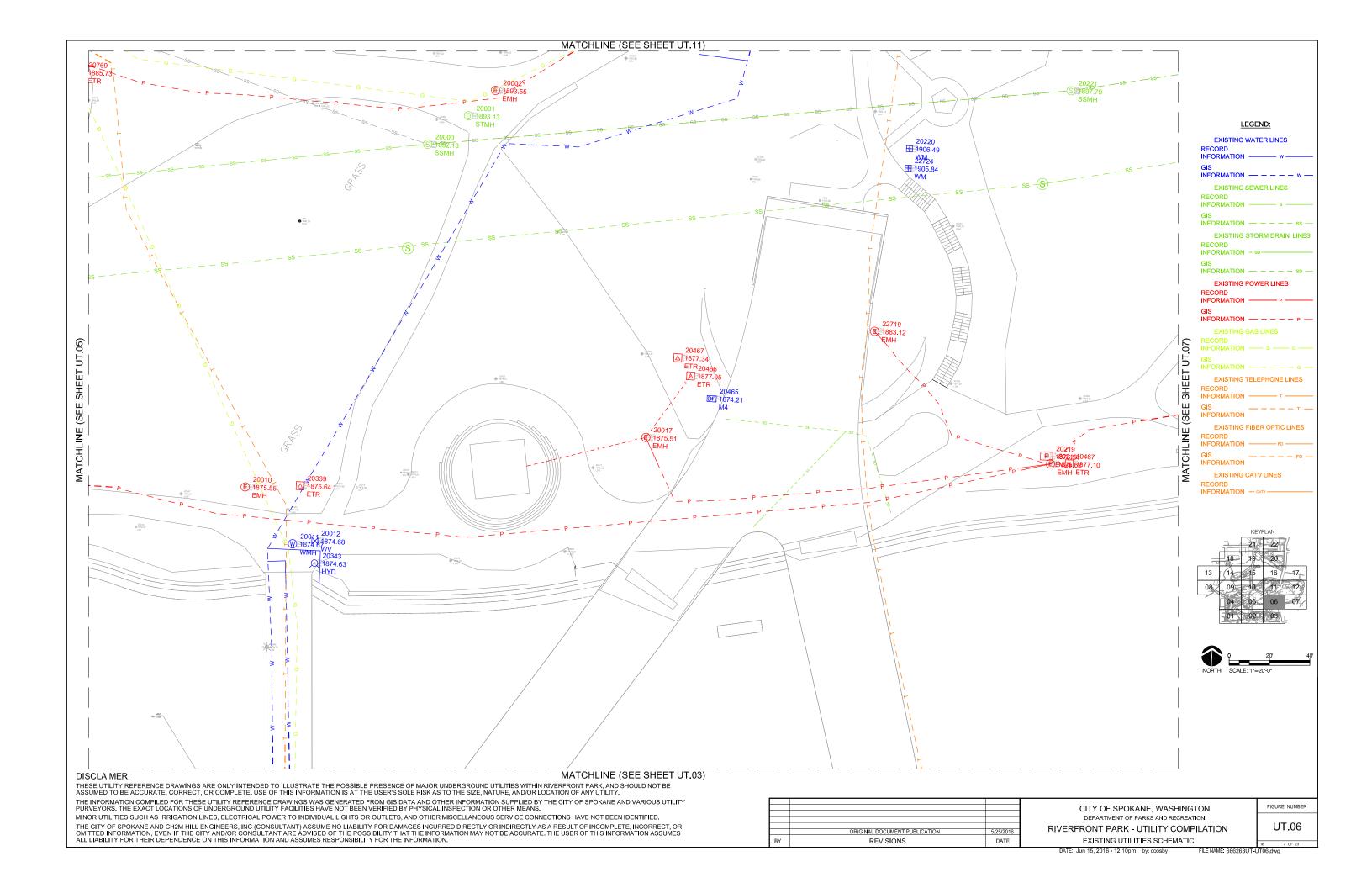


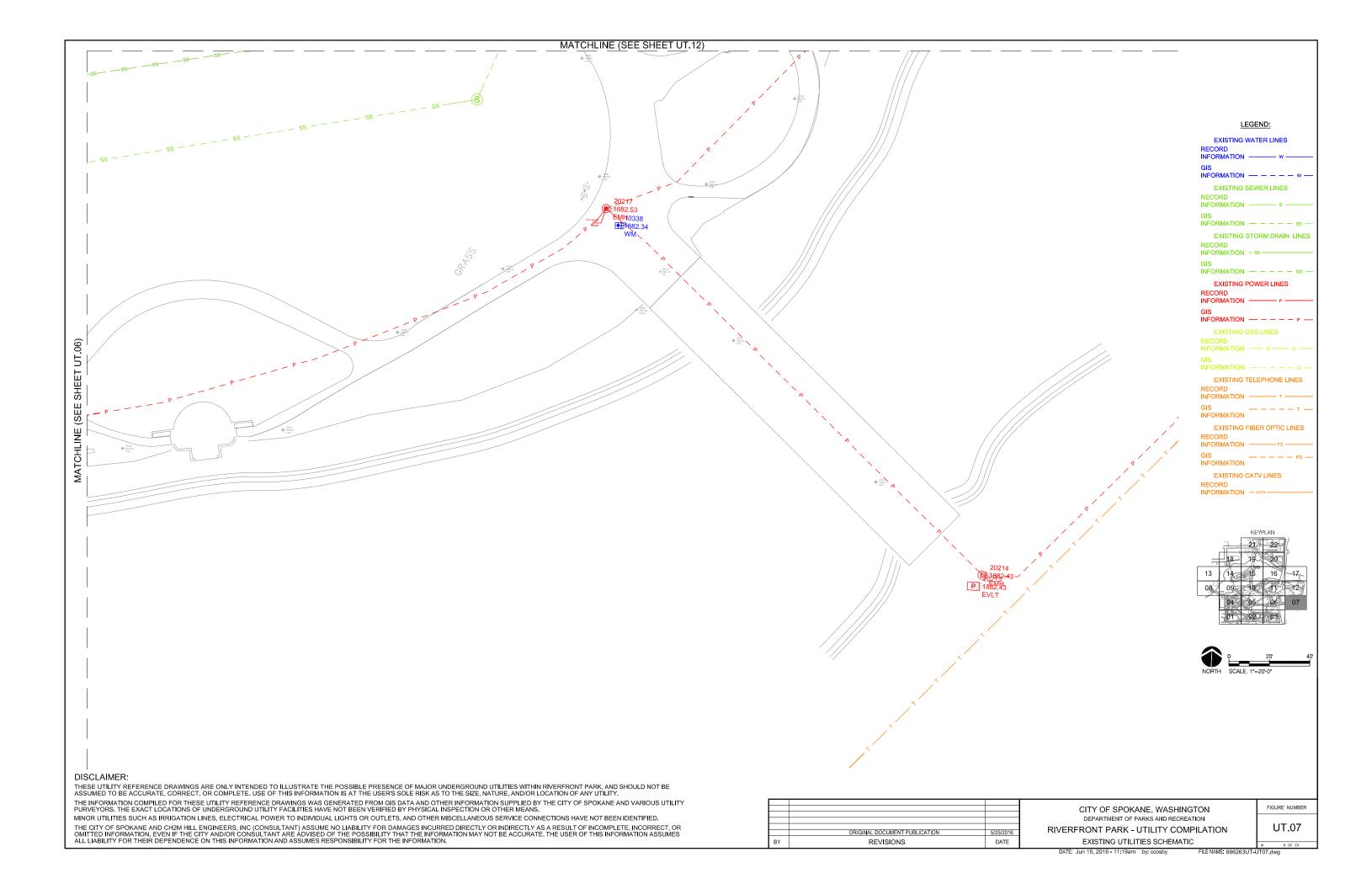


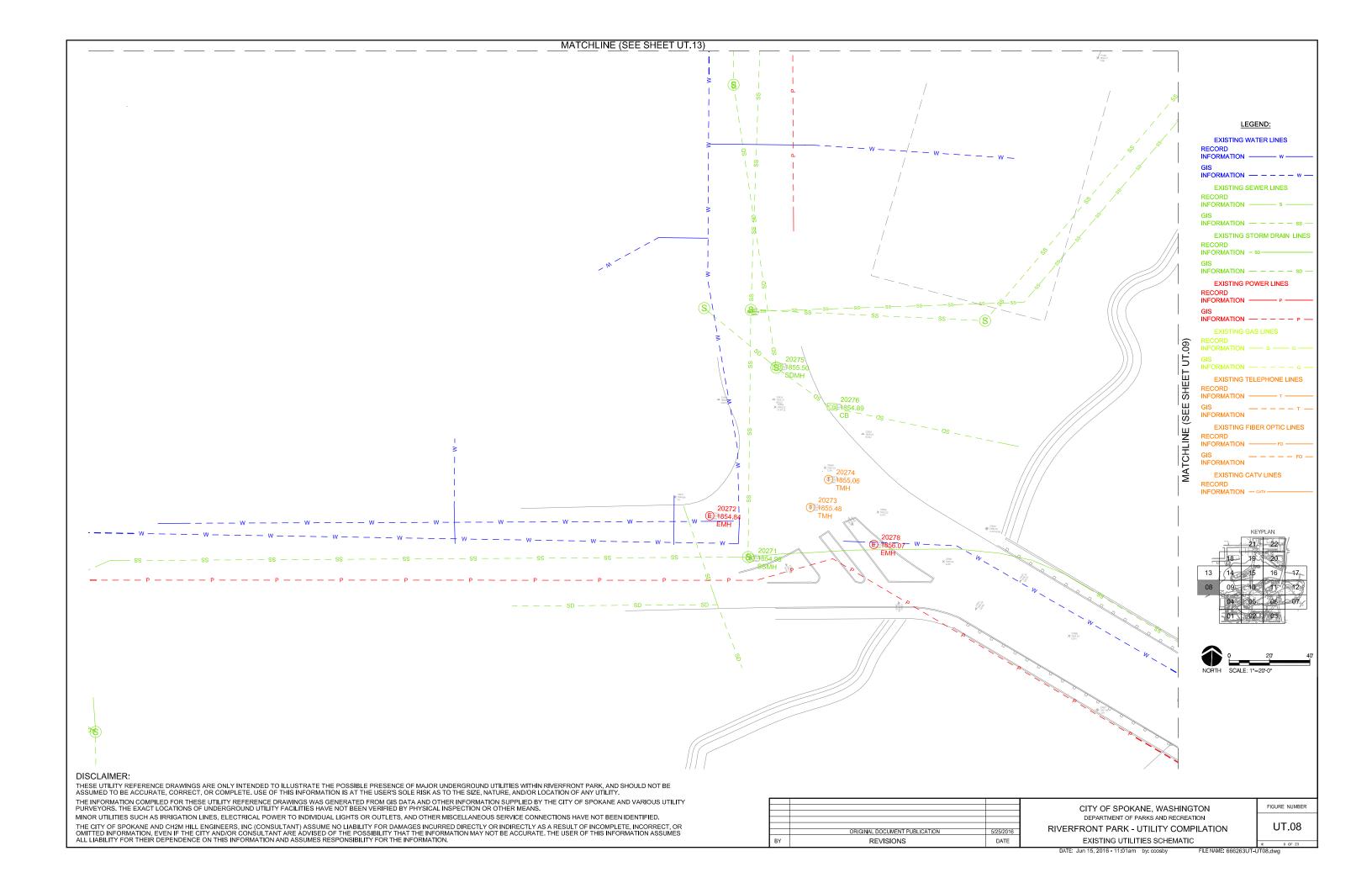


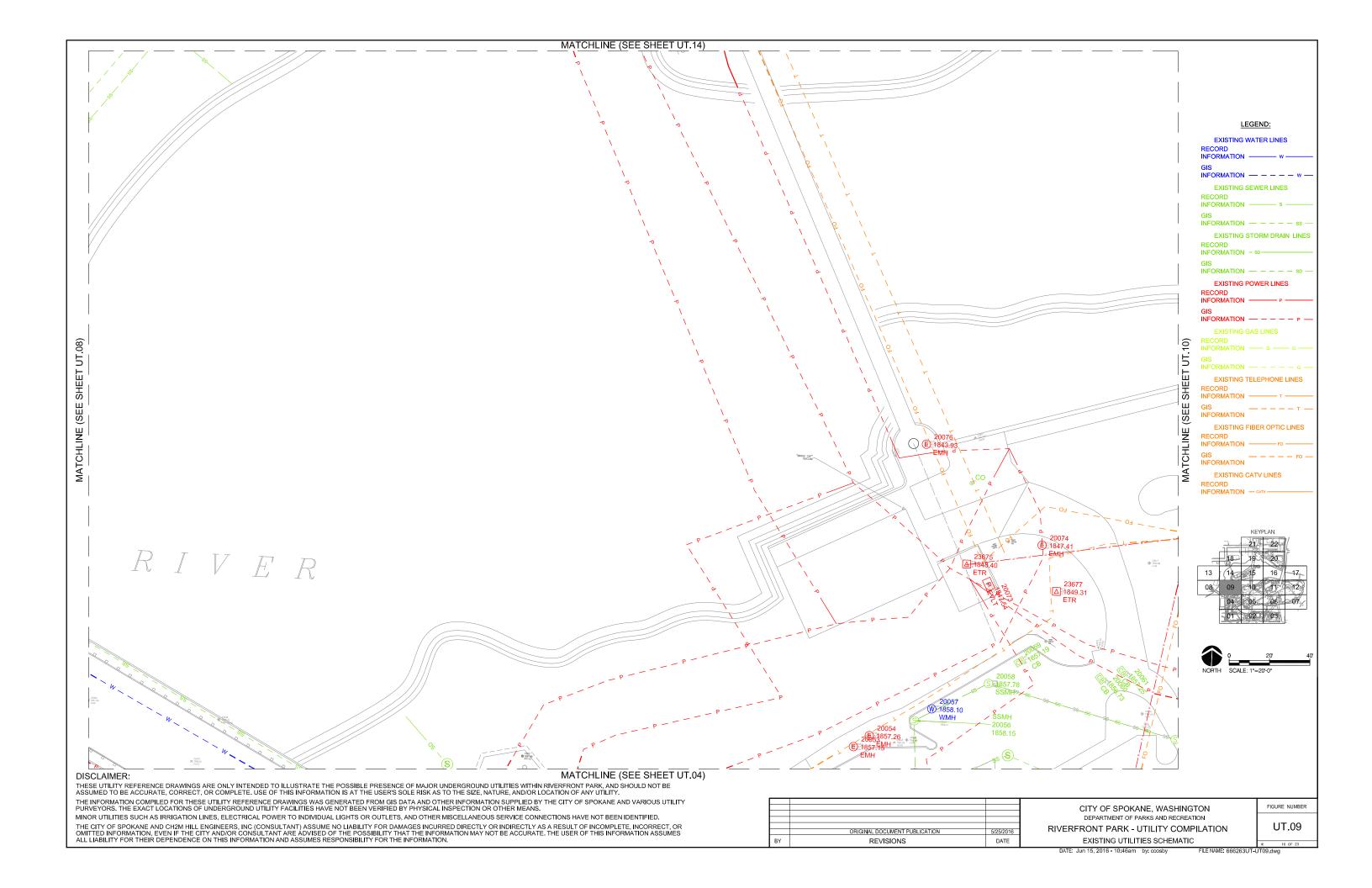


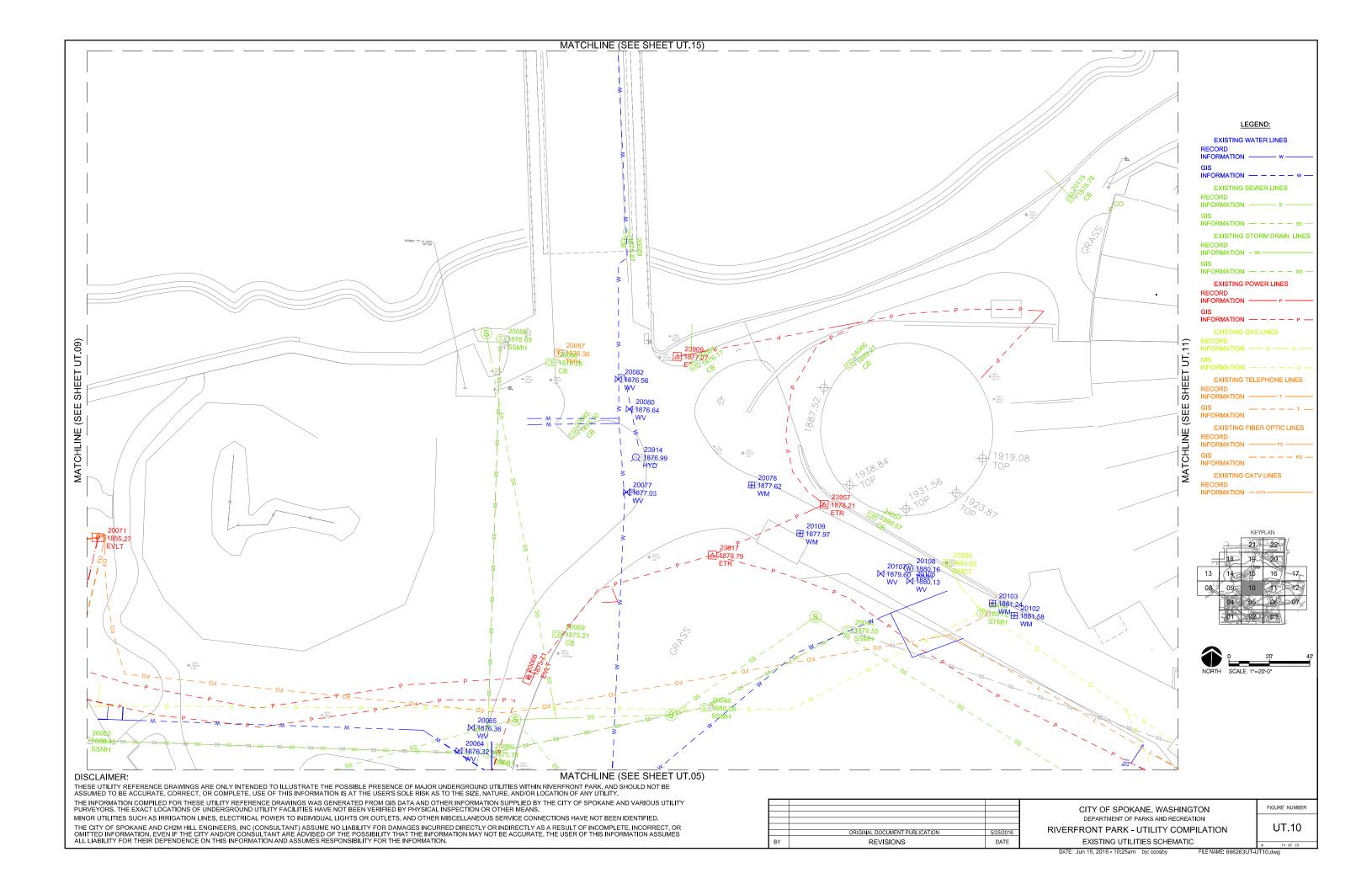


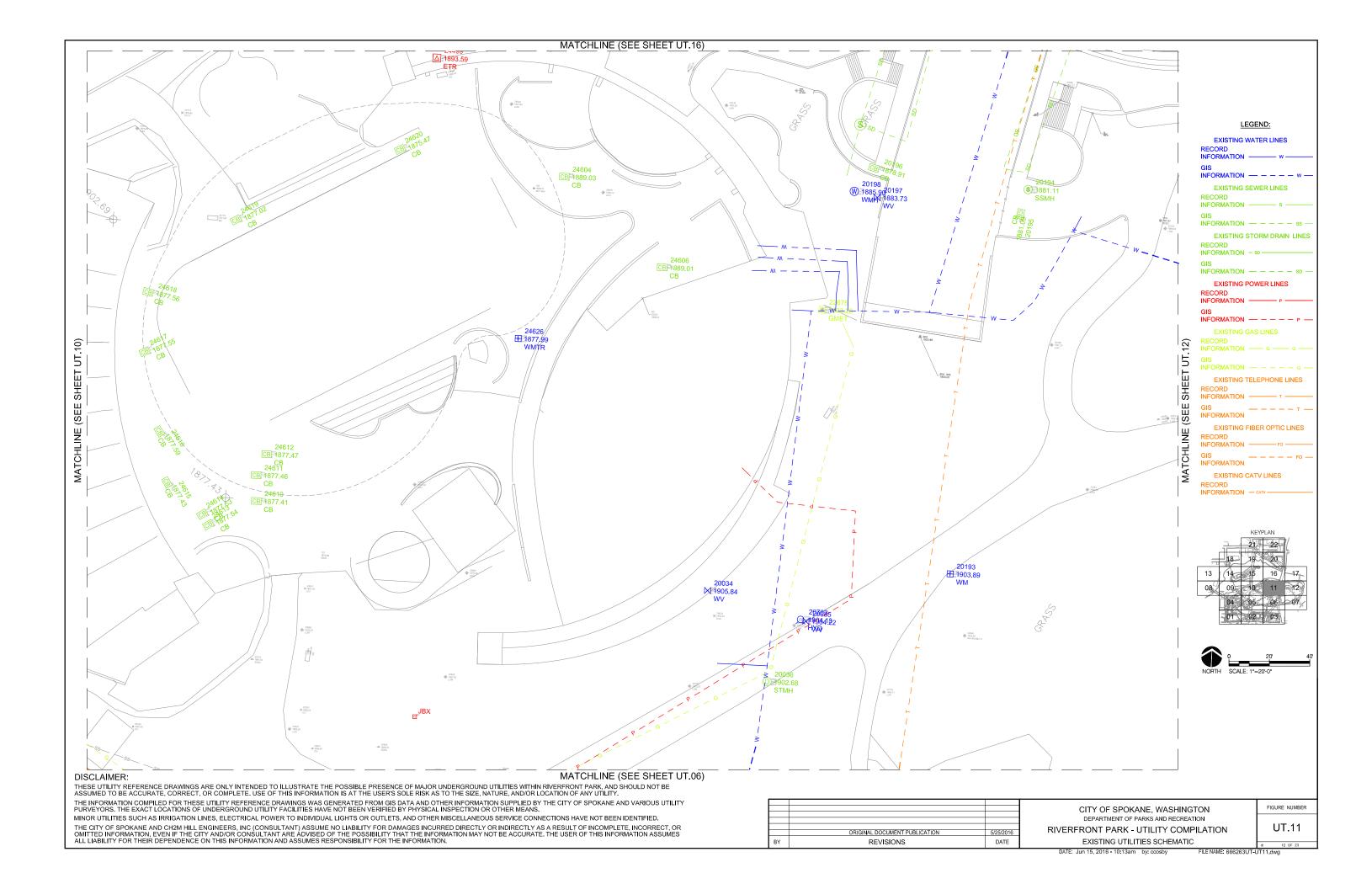


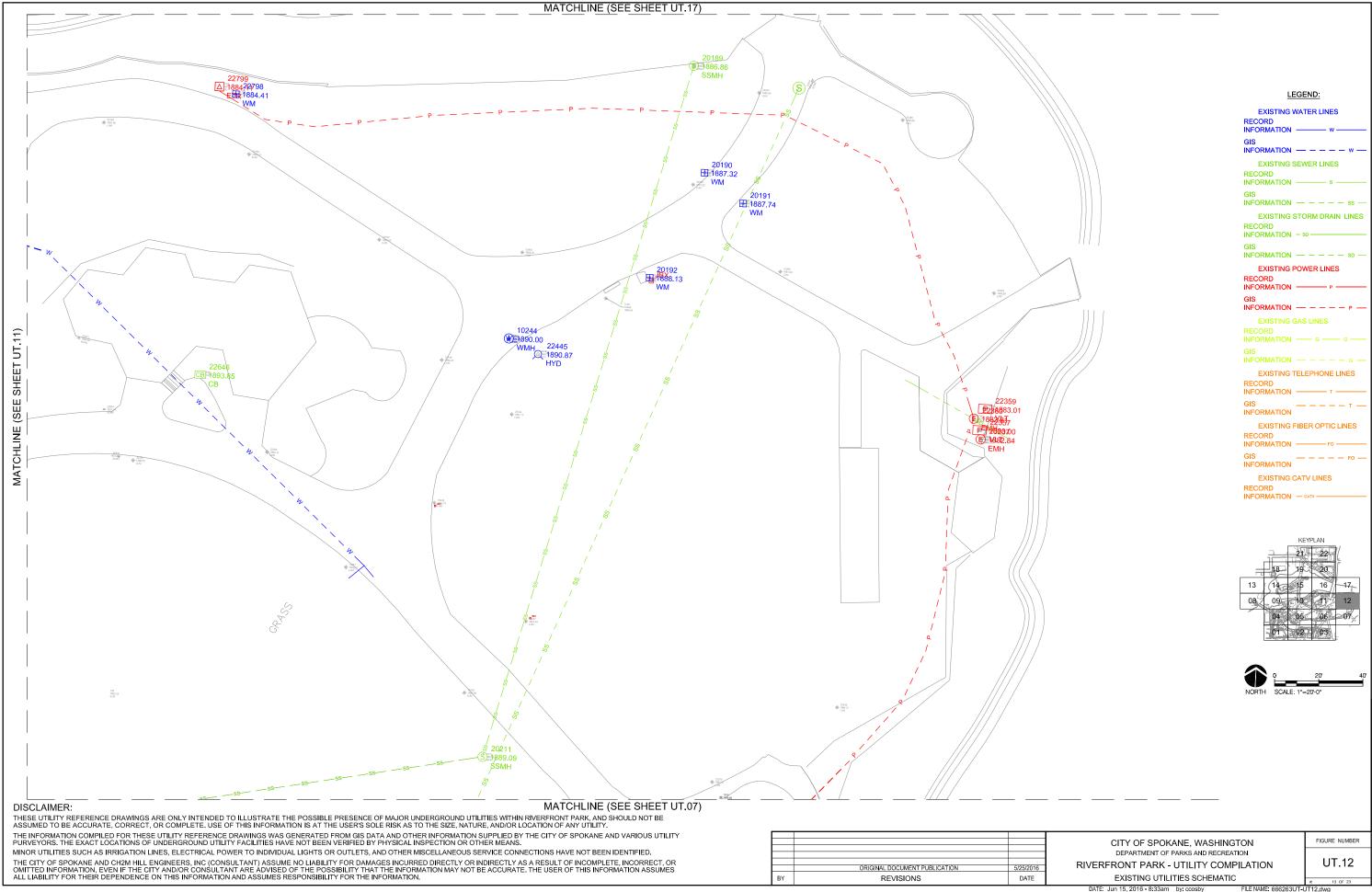




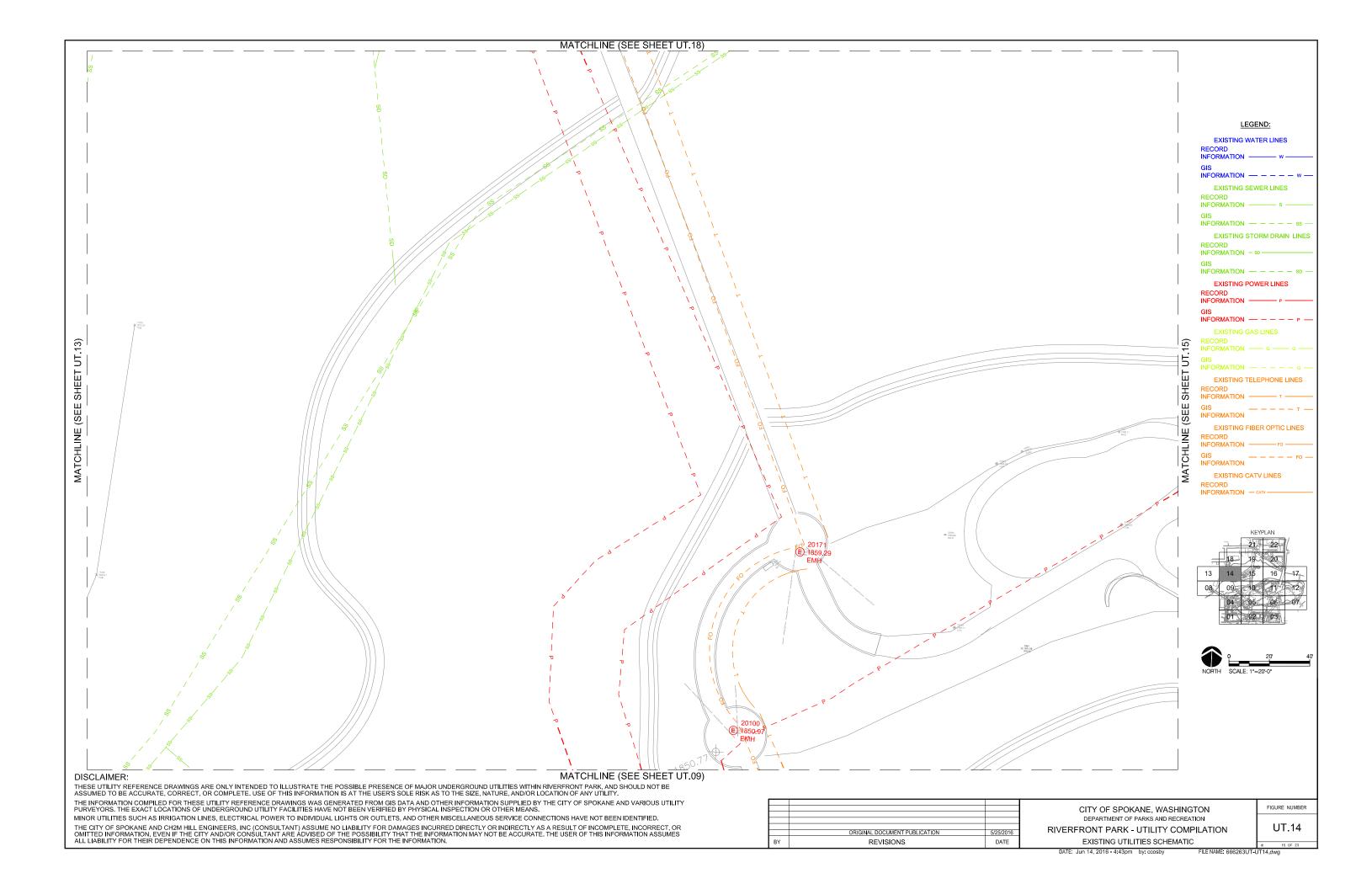


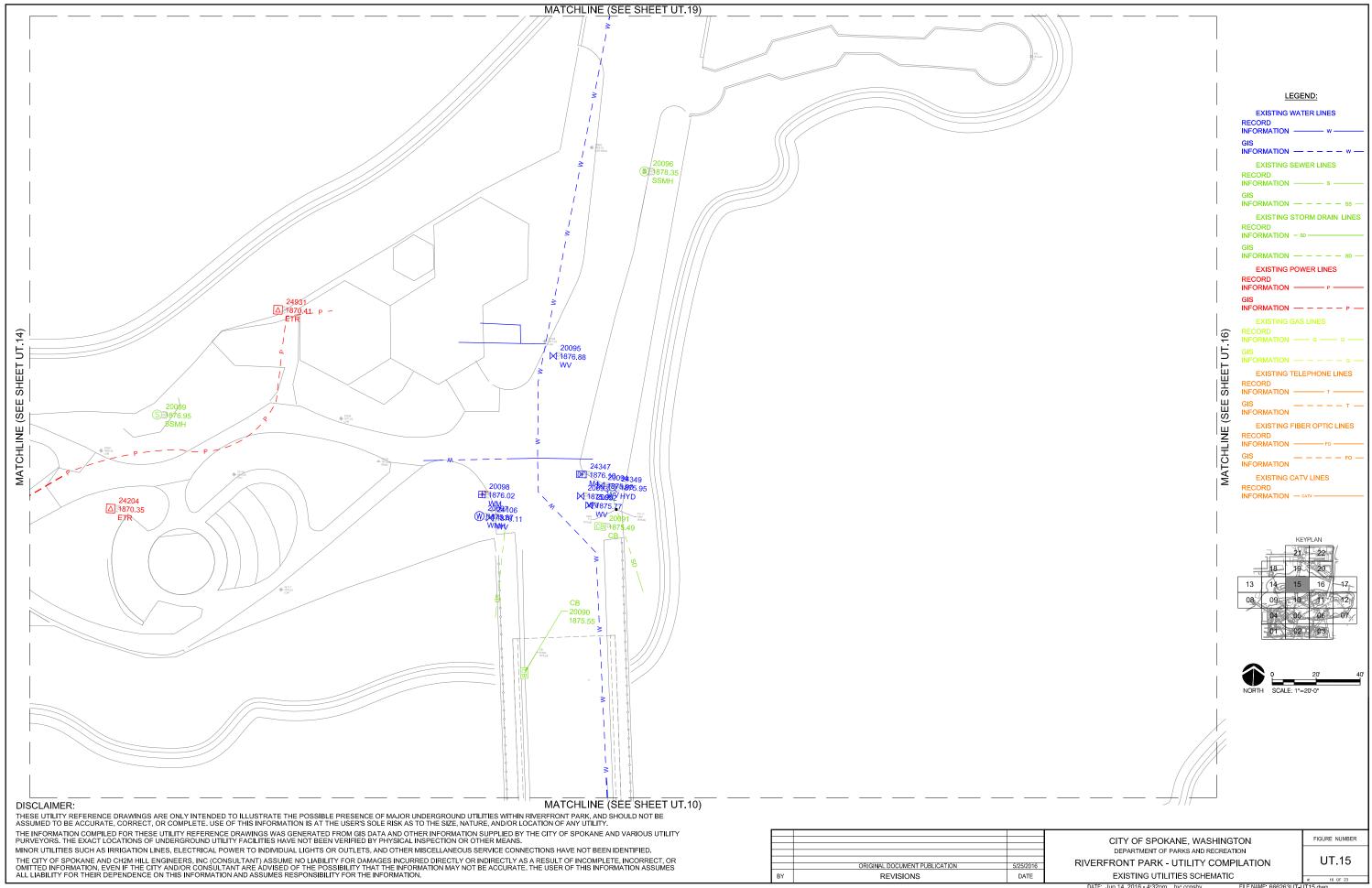


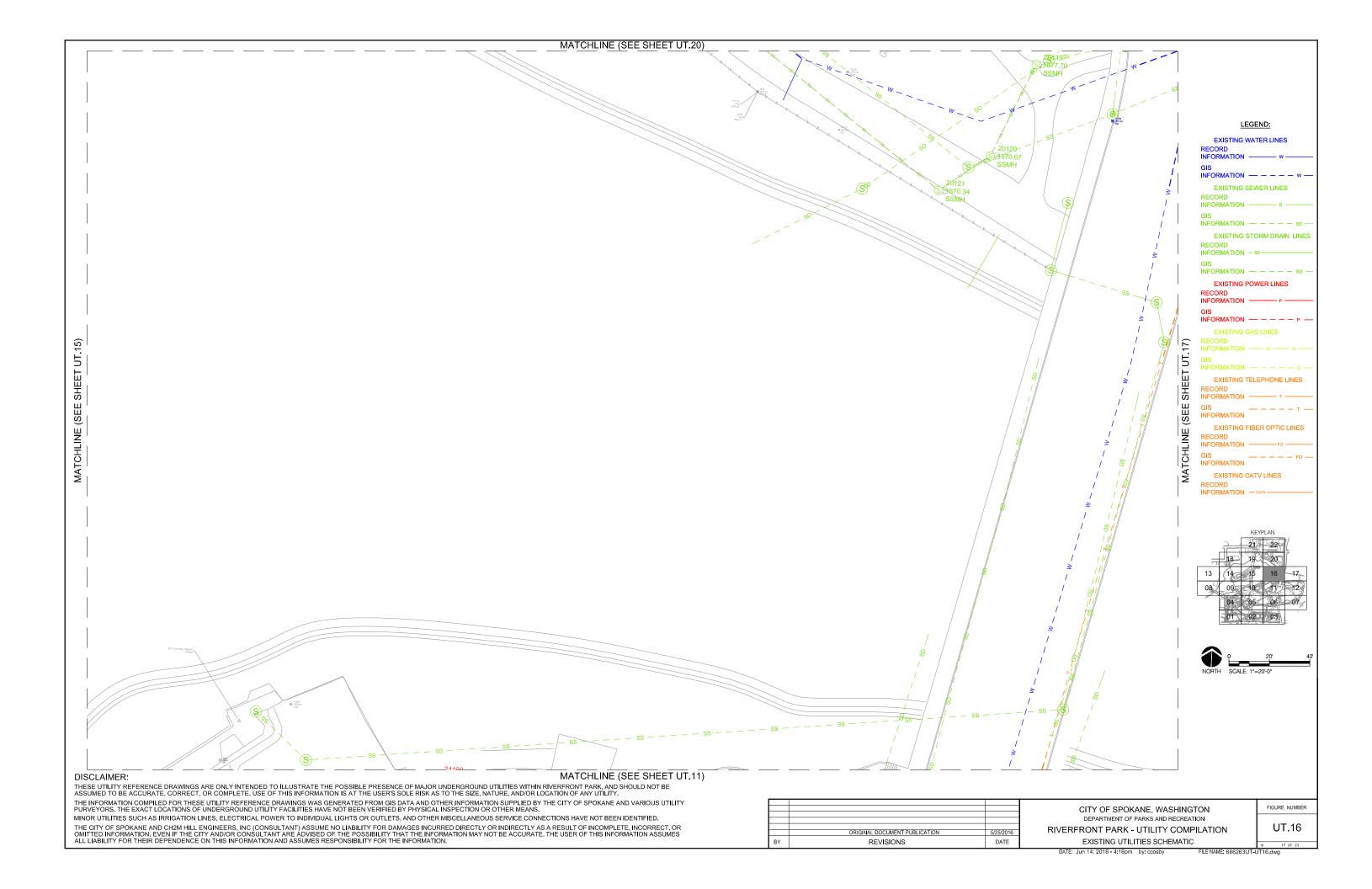


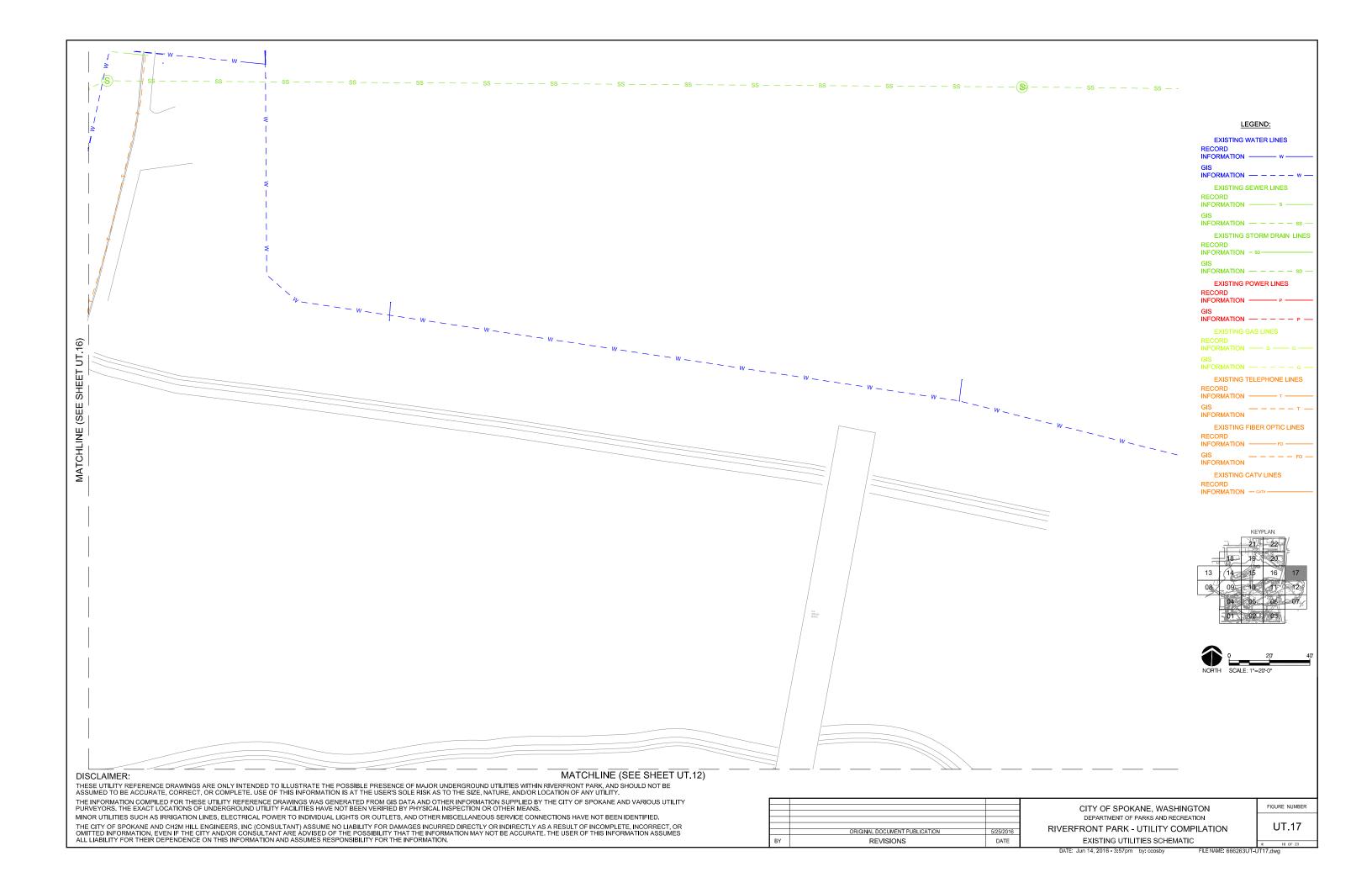


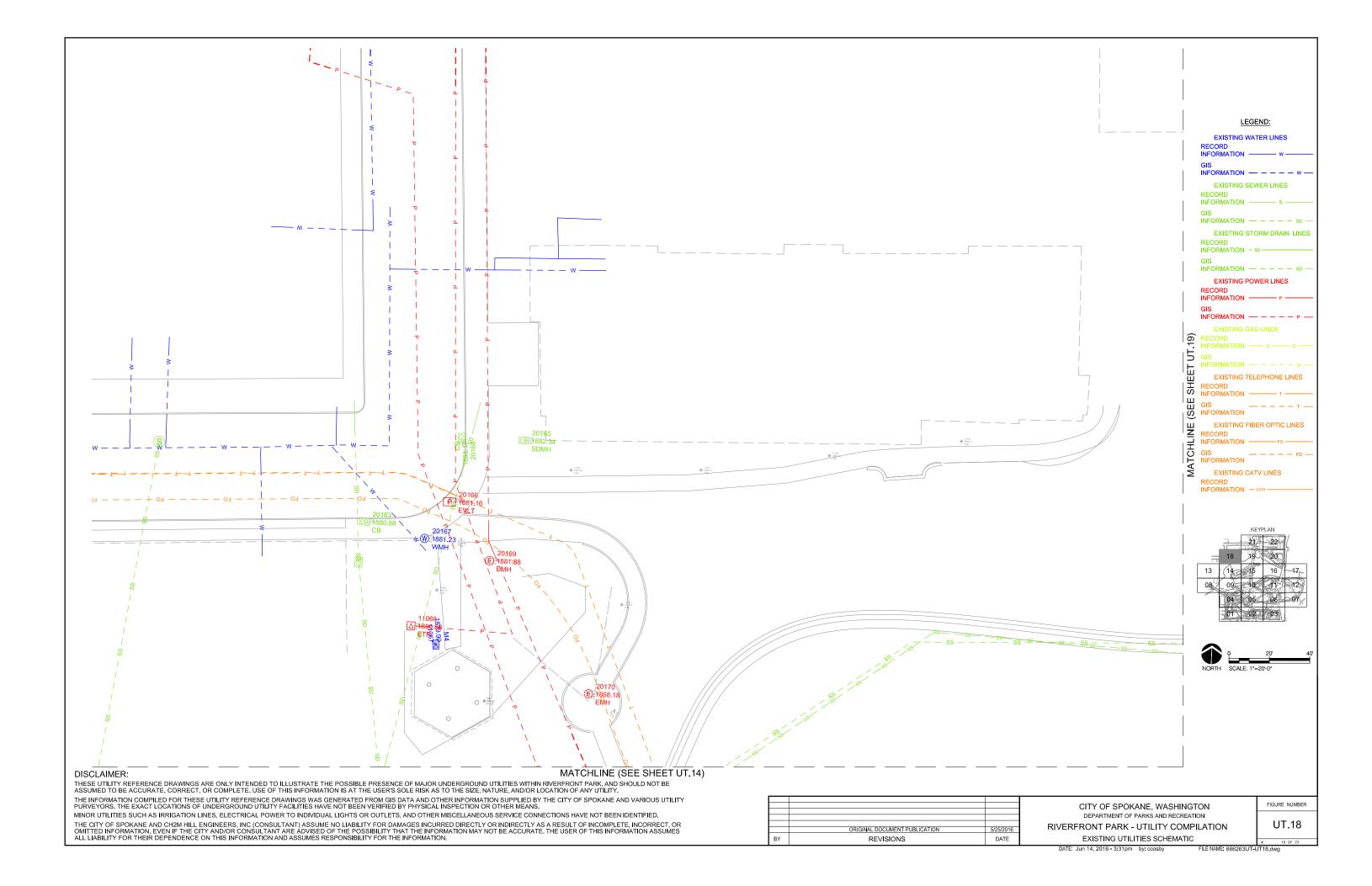
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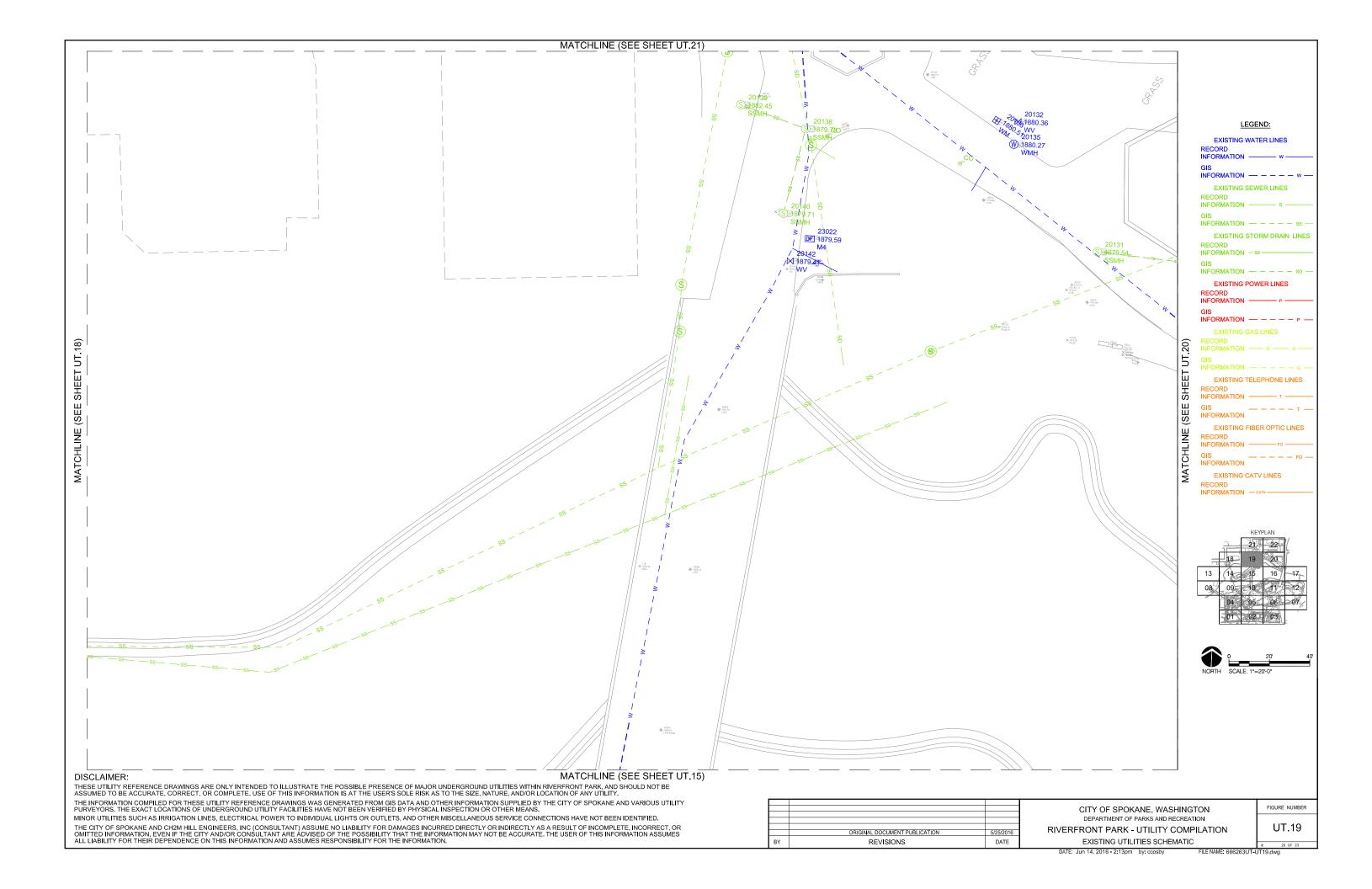


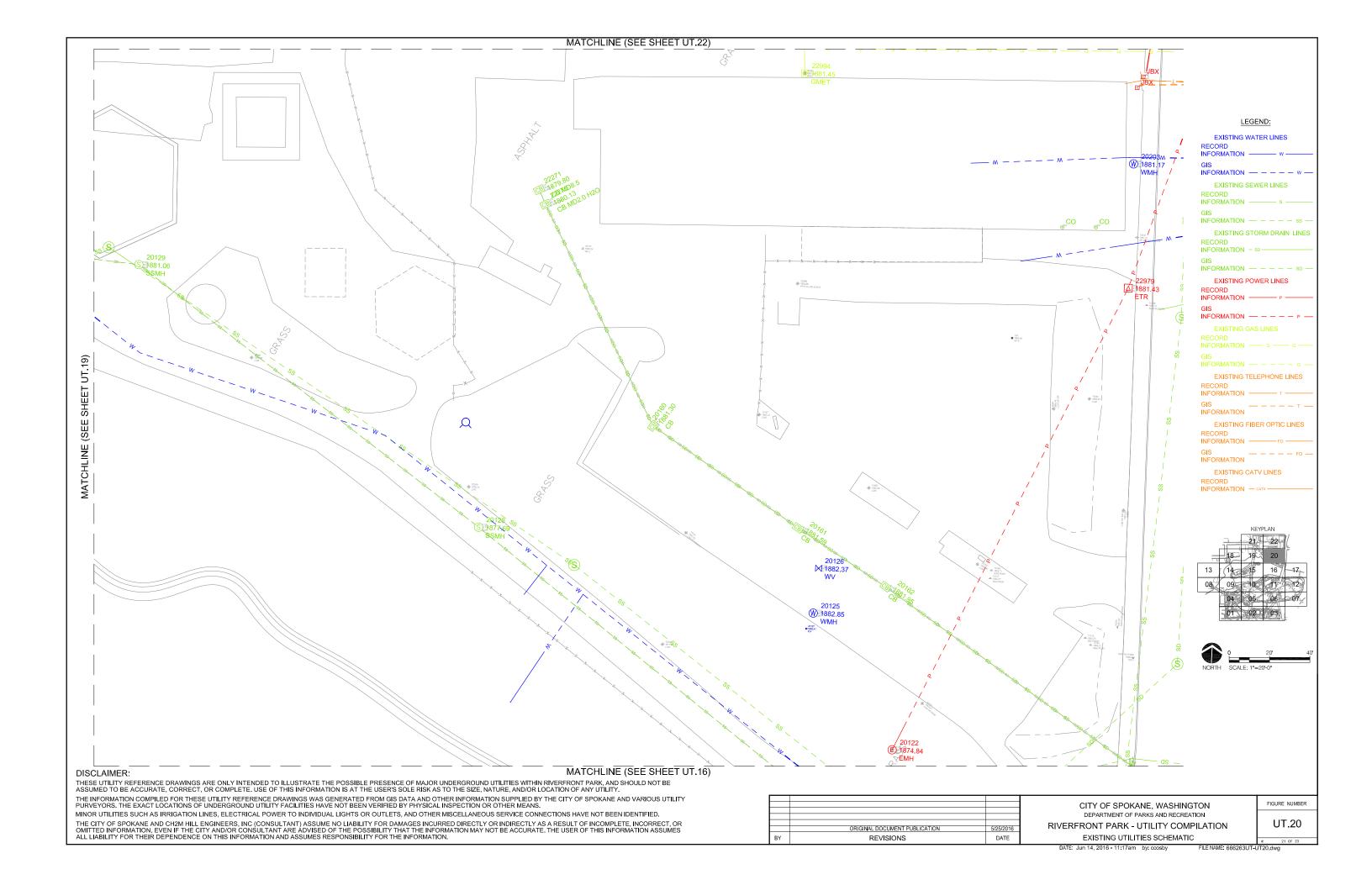


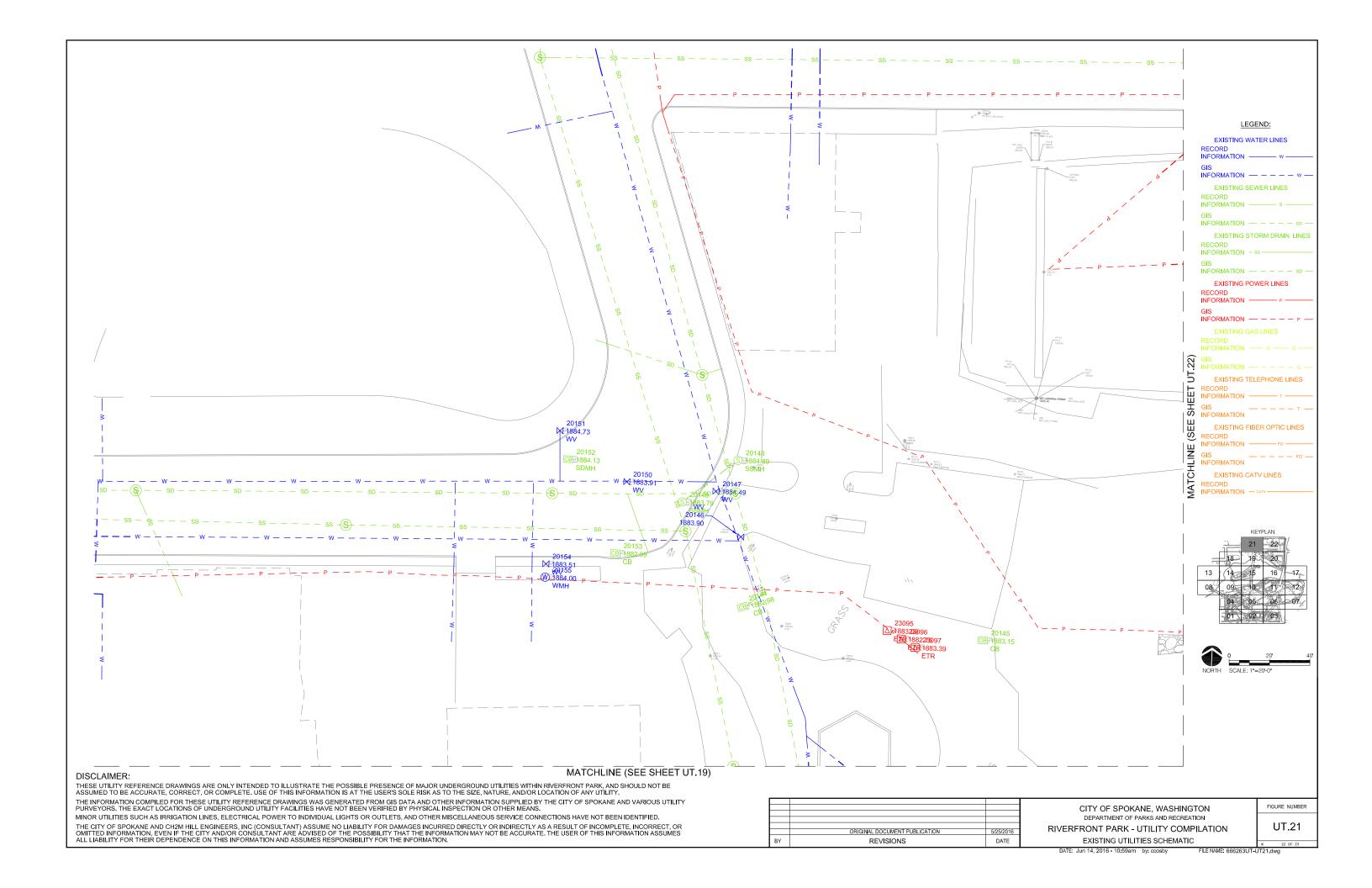


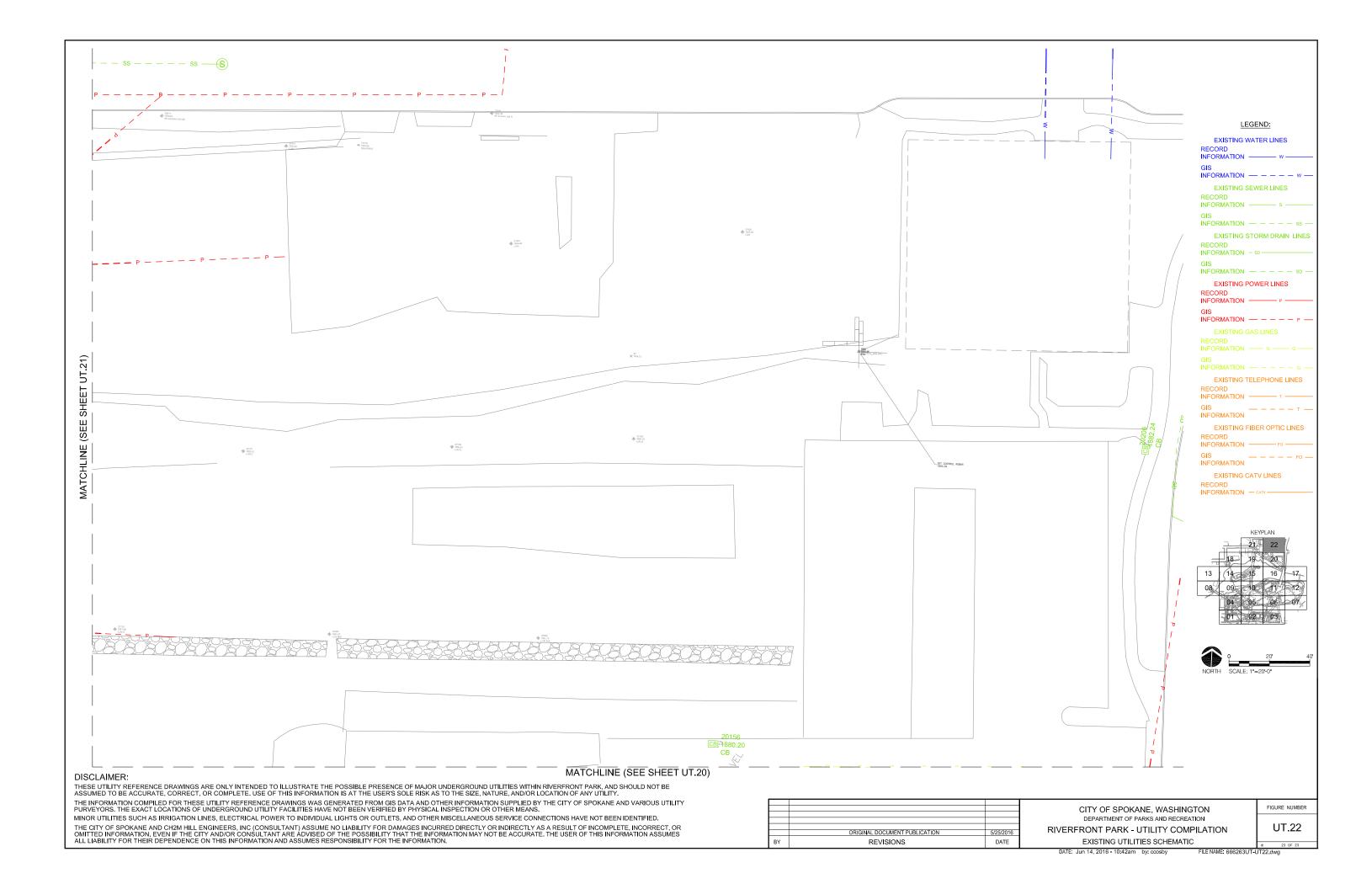








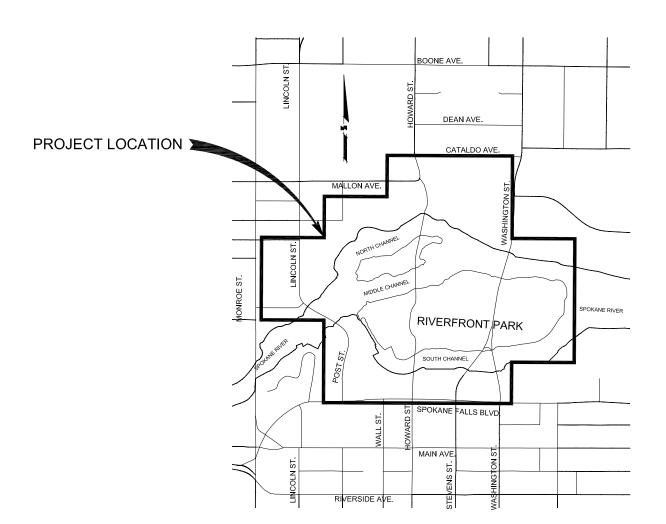




CITY OF SPOKANE, WASHINGTON

DEPARTMENT OF PARKS AND RECREATION

RIVERFRONT PARK - UTILITY COMPILATION





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EXISTING:

PROPOSED UTILITY SCHEMATIC

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