



Memorandum

To: Adrian Esteban, PE; Alta Planning + Design
From: Mandy Flett and Amanda Owings, PE; Otak
Copies: 21733
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Subject: Safer Sandy Boulevard: Utility Coordination
Project No.: 21733

Executive Summary

The project team gathered data available from various sources to document the existence utility infrastructure within the public right-of-way along the Safer Sandy Boulevard project corridor. In general, the corridor includes utilities managed by public agencies, overhead electrical infrastructure, underground gas mains, and communication service networks. Underground utilities are sparse; only gas and water lines run the entire length of the corridor. Wooden utility poles line the entire south side of the roadway, with intermittent segments on both sides, requiring relocation for roadway widening. Additionally, a large aerial transmission overcrossing, while not directly impacted, will require significant coordination during construction.

The City of Gresham, Fairview, Multnomah County, and Rockwood PUD all have water and stormwater utilities along the corridor. NW Natural Gas has supply lines ranging from 4-inch to 12-inch mains, and critical high-pressure gas transmission lines will require detailed survey and potholing for design integration.

Electric power infrastructure is managed by both PGE and Pacific Power, with overhead power lines and shared utility poles spanning the corridor. In addition, PGE confirmed multiple underground conflicts that will need coordination throughout preliminary and final design. Comcast, Astound Broadband, Ziply, Zayo, and CenturyLink (Lumen) provide telecommunications services, with some underground and overhead lines requiring further field verification. Townsend Farms, an adjacent property owner, has potential irrigation and water service lines that need further investigation.

While substantial progress has been made in utility coordination, continued engagement with service providers, field verification, and integration of updated utility maps into the project design will be necessary to mitigate conflicts and ensure seamless project execution.

Introduction

This memorandum documents the facilities associated with existing public and private utilities within the public right-of-way along the NE Sandy Blvd corridor. The study area covers approximately 1.95 miles, extending from NE 201st Avenue to NE 230th Avenue.

Methodology

As a subconsultant to the Alta Planning + Design team, Otak initiated the utility coordination process, modeled after ODOT's Utility Relocation Program. Existing utility information was collected through:

- Oregon Utility Notification Center (OneCall) service to identify and mark utility lines present in the corridor with paint.
- Utility notification letters sent to service providers requesting information on potential conflicts.
- Maps provided by service providers, generally in pdf format.
- Direct communication with representatives of service providers.
- Site visit by Otak engineering staff to identify stormwater infrastructure.

Otak prepared and emailed a Project Notification letter to the utility contacts gathered through OneCall and contacts provided through team coordination. A set of plans accompanied the letter for utility representatives to review and provide mark-ups.

Findings

The contents of this memorandum include an overview of each of the service providers with facilities identified in the Safer Sandy project corridor.

City of Gresham Utilities

According to the City of Gresham's Interactive GIS mapping, a water main runs along NE Sandy Blvd just west of NE 201st Ave, beginning near the southwest corner of the city's Wastewater Treatment Plant and terminating in front of the Sandy Mobile Villa, just east of NE 201st Ave.

Additionally, two stormwater mains run parallel along NE Sandy Blvd, each approximately 550 feet in length, terminating at NE 205th Ave. Based on discussions with the wastewater division, there are no sanitary sewer utilities within the proposed work area.

City of Fairview Utilities

Much of the project area lies within the City of Fairview, which provided GIS data for their stormwater, water, and sewer infrastructure. The data indicates several potential conflicts, including multiple storm lines that connect to catch basins located within the public right-of-way. A 21-inch gravity sewer line runs the entire length of NE Sandy Boulevard within the project limits. Additionally, a 10-inch water main also extends the length of the corridor, with various branches connecting to intersecting streets and adjacent properties. A 12-inch sanitary force main begins at NE 201st Avenue and runs approximately 870 feet east. A second, shorter 210-foot segment of force main is located within NE Sandy Boulevard, just east of NE Blossom Hill Road, in front of the Portland Fairview RV Park.

Multnomah County Utilities

Multnomah County provided Otak with GIS data that include guardrails and overhead and underground streetlight circuits layers which are throughout the NE Sandy Blvd corridor. In addition, they provided their drainage and stormwater layers, discussed below.

Otak contacted ODOT Electrical to coordinate on traffic signal and lighting infrastructure within the corridor. It was confirmed that Multnomah County owns the traffic signals in the project area and the City of Gresham is responsible for system maintenance.

Rockwood Water Public Utility District (PUD)

Rockwood PUD has identified a 12-inch diameter water line along NE Sandy Blvd that terminates at NE 201st Ave and continues south along NE 201st Ave. This water line may present a potential conflict depending on the starting point of the proposed improvements within this intersection. Based on the map provided to Otak, the water line appears to be centered in the roadway along NE Sandy Blvd and shifts to the west side of NE 201st Ave. Further coordination with Rockwood PUD will be necessary to assess potential impacts and determine any required adjustments.

NW Natural Gas

NW Natural Gas has supply lines running nearly the full length of this NE Sandy Blvd corridor. The facilities range from 4-inch to 12-inch mains with smaller lines branching off at the various intersections with pipe diameters ranging from 1-inch to 6-5/8-inch. Additionally, service lines connect properties along the corridor. NW Natural Gas provided maps showing approximate locations of gas lines.

A critical utility consideration for this project is the presence of a 12-inch high-pressure gas transmission line (shown as a green line on the provided maps) and an 8-inch gas distribution main (shown as a yellow line). Both pipelines run the length of the project corridor on the north side, from NE 201st Ave to NE 230th Ave, within the NE Sandy Blvd right-of-way.

It is recommended that these gas lines be surveyed, location and depth confirmed by potholing, and this data incorporated into the preliminary engineering design drawings. Early coordination with NW Natural has indicated that any potential relocation of the high-pressure transmission line would require a minimum two-year process, initiated from approximately the 60% design milestone—a timeline that is fixed and would not be accelerated. NW Natural also advised that additional delays could occur due to ongoing tariffs and international supply chain impacts affecting material availability.

Given the complexity and criticality of this infrastructure, early and detailed coordination with NW Natural will be essential to avoid impacts to the project schedule and to ensure appropriate design clearances are achieved.

PGE and Pacific Power

Aerial imagery indicates that utility poles are generally located just outside the paved portion of the roadway. A significant power corridor crosses NE Sandy Blvd east of NE Blossom Hill Road. In most areas, power lines run overhead, sharing poles with telephone and cable television providers. PGE does not have current vertical clearance data and strongly recommends that these facilities be surveyed during the design phase to ensure adequate clearance and to avoid potential conflicts.

Otak consulted with PGE and confirmed the presence of power lines and wooden utility poles along the corridor. PGE facilities generally run parallel to NE Sandy Blvd along the south side of the roadway, with multiple crossings to the north. Just east of NE Fairview Pkwy, PGE facilities are present on both sides of NE Sandy Blvd. Beyond NE Blossom Hill Rd, PGE facilities, continue along the south side of NE Sandy Blvd.

In addition to overhead facilities, PGE has identified approximately a dozen potential underground conflicts along the project corridor, which are represented in the accompanying plans.

Pacific Power has facilities within the study area. Otak currently has a work order open with Pacific Power and is awaiting maps to better identify potential conflicts. As the project progresses, overhead power lines will need to be carefully considered during construction.

Comcast Cable

At this time, Comcast has not responded to our request for identifying any potential conflicts. Based on the OneCall and review of the study area, Comcast services are identified along the NE Sandy Blvd corridor. Otak will continue to reach out and will update basemaps as the design advances. More detailed field survey will be needed to determine the location of their facilities.

Astound Broadband

Astound, an internet service provider operating fiber-optic lines, responded to the utility notification request. Otak corresponded with Astound Broadband and, similar to Rockwood PUD, their facilities exist at the intersection of NE Sandy Blvd and NE 201st Ave. The mapping shows one, underground 2-inch conduit with fiber encased that runs across NE Sandy Blvd along NE 201st Ave. There is also a 24-inchx36-inch vault located in the northwest corner of NE Sandy Blvd and NE 201st Ave.

Ziply

Ziply, an internet service provider, maintains a mix of underground and overhead utilities within the project area, including fiber-optic lines. Ziply mapping shows underground utilities present between approximately NE 201st and NE 205th Avenues with underground crossings at NE 205th Ave, Fairview Parkway, NE 223rd and 230th Avenues. The majority of the poles on the north side of NE Sandy Blvd are Ziply-owned between NE 230th Ave and the Fairview RV Park. Ziply maintains facilities on both Pacific Power and PGE-owned poles on the south side of NE Sandy Blvd.

Zayo

Zayo, an internet service provider, was identified in the OneCall notification process. Otak had correspondence with Zayo regarding project details but, to date, Zayo was unable to provide maps of their facilities within the NE Sandy Blvd corridor, but did note that their facilities are located in ROW. More detailed field survey will be needed to determine the location of their facilities.

CenturyLink (aka Lumen)

CenturyLink (Lumen), an internet service provider, determined they do not have facilities within the project study area.

Townsend Farms

Townsend Farms is an adjacent property owner and fruit produce supplier. The OneCall notification identified potential irrigation and water service lines within the NE Sandy Blvd right-of-way. Otak did not receive any correspondence with Townsend Farms to date. More detailed field survey will be needed to determine the location of their facilities.

Conclusion

Within the survey task, Otak prepared a basemap in AutoCAD 2022 Civil 3D utilizing the aerial data provided by GeoTerra, Inc. The basemap was annotated based on input and responses from utility coordination efforts. Size, material and locations of utility infrastructure are approximate and shall be used for planning and conceptual design purposes only. Archives of data and mapping received by utility providers are available upon request.

Advanced utility coordination, survey, and/or potholing will be required during preliminary and final design. Relocation of the 12" high-pressure gas transmission line, if required, will be a critical path item for final design engineering.