

UNDERGROUNDING PLAN 2026-2030

Subtransmission &
Distribution Facilities



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I. **INTRODUCTION**

On March 1, 2005, the Anchorage Assembly adopted certain revisions to Section 21.07.050, Utility Distribution Facilities, of the Anchorage Municipal Code. These revisions require an electric utility to “include as part of its annual capital improvement plan, a five-year undergrounding program” (21.07.050F1). In each of the years of this program the electric utility shall plan on expending “at least two percent of a three-year average of its annual gross retail revenues derived from utility service connections within the municipality” (21.07.050G1a). In accordance with this requirement, Chugach Electric Association (Chugach) targets approximately \$6.7 million annually to underground existing overhead facilities. Over-expenditures or under expenditures may be carried over as an adjustment to the following year’s obligation.

When developing the five-year undergrounding program, the electric utility can choose which existing lines to underground. Specifically, priorities of the program “shall be based on undergrounding in conjunction with the electric utility’s essential system improvements and then by target area” (21.07.050F1).

This document contains Chugach’s anticipated five-year undergrounding plan, comprising of all projects regarding the undergrounding of non-conforming overhead lines between the years 2026 to 2030. The inclusion of a project within this plan does not guarantee that the project will be constructed in the designated year. Every effort is made to complete the projects according to the schedule in Part IV, but circumstances may cause a project to be completed earlier or later than planned.

The projects were chosen to best serve Chugach's overall system needs and with consideration of the designated target areas.

II. **PROJECT IDENTIFICATION**

To reduce the financial impact of the ordinance on utility ratepayers and to equitably apply the 2% undergrounding surcharge, Chugach identifies projects with the greatest potential to improve system safety, reliability, and resiliency. Projects are identified by analysis of system outage data, results of routine inspection, load growth projections, community input, and construction efficiencies gained by partnering with other utilities or agencies.

Overhead transmission lines operated at 69,000 volts or greater are cost-prohibitive to build and maintain underground and are never considered for conversion as part of this program. Additionally, lines are exempted from consideration that would be overly costly to build or maintain due to soil condition, slope, terrain, or the presence of waterways.

III. PROJECT SELECTION

Chugach's undergrounding projects are intended to implement one or a combination of five main objectives. These objectives are listed in order of priority; however, the priority of a project can change depending on the specific project and how it relates to maintaining the integrity of the Chugach system.

1. **Safety:** These projects will improve the safety of our system by retiring overhead facilities where clearances or strength requirements are less than mandated by the National Electric Safety Code (NESC). Lines over residential houses or buildings, although not necessarily a code violation, pose a potential safety concern and will attempt to be relocated underground as part of this plan.
2. **Non-reimbursable Portions of Relocation Projects:** State and Municipal road projects often include the relocation of existing utility facilities at the expense of the road project. Under this category, Chugach will fund any betterment completed by the utility in conjunction with the relocation work and additional small system improvements adjacent to the scope of the road project and most efficiently constructed at the same time.
3. **Load Growth Improvements:** Existing overhead facilities are sometimes insufficient to handle the additional load of a large commercial or residential development. Instead of reconductoring an existing pole line with larger conductor, these projects will install larger underground conductor and retire the overhead facilities.
4. **Reliability:** As part of Chugach's core mission to provide reliable electrical service we routinely analyze system performance metrics to ensure reliability remains at an acceptable standard. Some areas have higher numbers of wind related or tree related outages. These areas may benefit by retiring overhead systems and replacing them with underground facilities and may require additional circuit construction in accordance with our looping requirements.
5. **Target Areas:** Existing overhead facilities located in target areas as defined in "*Designation of Target Areas*" (21.07.050F) emphasize locations that would benefit significant numbers of people or the general public good. Some of the areas specifically listed include central business district areas, major traffic corridors, parks and recreational areas, and school and university areas.

IV. LIST OF PROJECTS

The following table lists the undergrounding projects anticipated to be constructed in the following five years. Project summary sheets describing the scope and boundary of each project are included in Appendix A.

**2026 - 2030 Overhead to Underground Projects
Chugach Electric Association, Inc.**

Project Description	Page Number	Grid	Work Order	Cost Estimate	2026	2027	2028	2029	2030
Debarr Sub to Anchorage Sub	A-1	1335-1339 1435, 1535, 1536	E2314244 E2320073	\$ 8,000,000	\$ 5,000,000	\$ 3,000,000	\$ -	\$ -	\$ -
Aero Acres	A-2	1726	E2314213	\$ 800,000	\$ 800,000	\$ -	\$ -	\$ -	\$ -
Gambell St. - 3rd Ave. to 15th Ave.	A-3	1231, 1331, 1431	P1900043	\$ 10,000,000	\$ 10,000,000	\$ -	\$ -	\$ -	\$ -
New Girdwood Townsite	A-4	4815	E2514340	\$ 500,000	\$ 250,000	\$ 250,000	\$ -	\$ -	\$ -
W. 9th & P St.	A-5	1328	E2514342	\$ 1,450,000	\$ 50,000	\$ 500,000	\$ 900,000	\$ -	\$ -
Spenard Road Rehabilitation/Relocation	A-6	1629, 1728, 1729	E2214178	\$ 2,000,000	\$ -	\$ 2,000,000	\$ -	\$ -	\$ -
Glacier St. & 22nd Ave.	A-7	1537	E2114038	\$ 2,000,000	\$ -	\$ 2,000,000	\$ -	\$ -	\$ -
Blueberry Rd.	A-8	1529, 1530	E2314214	\$ 550,000	\$ 50,000	\$ 500,000	\$ -	\$ -	\$ -
Forest Park Dr	A-9	1428, 1528	E2414294	\$ 550,000	\$ 50,000	\$ 500,000	\$ -	\$ -	\$ -
Turnagain Park Subdivision	A-10	1526, 1527	E2514341	\$ 2,950,000	\$ -	\$ 700,000	\$ 750,000	\$ 750,000	\$ 750,000
Air Guard Road - Jewel Lake	A-11	2024, 2025	E2614402 E2620093	\$ 3,000,000	\$ -	\$ -	\$ 3,000,000	\$ -	\$ -
Green Valley	A-12	1726, 1727	E2614410	\$ 250,000	\$ -	\$ -	\$ 250,000	\$ -	\$ -
Frontierland Park - 10th & E St	A-13	1231, 1232	TBD	\$ 350,000	\$ -	\$ -	\$ 350,000	\$ -	\$ -
E 84th - Lake Otis to Elmore	A-14	2334, 2335, 2336	E2614409	\$ 2,000,000	\$ -	\$ -	\$ 2,000,000	\$ -	\$ -
Huffman Road - Lake Otis to Elmore	A-15	2834, 2835	E2614411	\$ 2,500,000	\$ -	\$ -	\$ 2,500,000	\$ -	\$ -
7th/8th Alley - Gambell St. to Ingra St.	A-16	1331, 1332	E2114039	\$ 800,000	\$ -	\$ -	\$ 800,000	\$ -	\$ -
Logan St. - 17th Ave. to 20th Ave.	A-17	1434	E2614413	\$ 2,150,000	\$ -	\$ -	\$ 50,000	\$ 2,100,000	\$ -
Glacier St. & 24th Ave.	A-18	1537	E2614407	\$ 2,600,000	\$ -	\$ -	\$ 600,000	\$ 2,000,000	\$ -
Lake Otis Parkway	A-19	1834, 1934	E2614412	\$ 2,000,000	\$ -	\$ -	\$ -	\$ 2,000,000	\$ -
Wickersham Park	A-20	1833, 1834	E2614417	\$ 750,000	\$ -	\$ -	\$ -	\$ 750,000	\$ -
Cange St - Huffman to De Armoun Rd	A-21	2834, 2934	E2614408	\$ 2,000,000	\$ -	\$ -	\$ -	\$ 2,000,000	\$ -
Needle Circle	A-22	1732, 1733	E2614414	\$ 600,000	\$ -	\$ -	\$ -	\$ 100,000	\$ 500,000
Wisconsin Street	A-23	1626, 1726	E2614418	\$ 2,500,000	\$ -	\$ -	\$ -	\$ -	\$ 2,500,000
Westpark Subdivision	A-24	2031, 2032	E2614416	\$ 500,000	\$ -	\$ -	\$ -	\$ -	\$ 500,000
Elmore and Tudor - 4/0 ACSR	A-25	1835, 1836	TBD	\$ 500,000	\$ -	\$ -	\$ -	\$ -	\$ 500,000
Northern Lights - Lake Otis to Arctic	A-26	1530-1534, 1630	E2614415	\$ 5,000,000	\$ -	\$ -	\$ -	\$ -	\$ 5,000,000
				\$ 56,300,000	\$ 16,200,000	\$ 9,450,000	\$ 11,200,000	\$ 9,700,000	\$ 9,750,000

Appendix A

2026 – 2030 Underground Project Summary Sheets

TITLE 21 PROJECT

35kV: Debarr Sub to Anchorage Sub

PROJECT NUMBER: E1720054 & E2314215 PROJECT COST: \$8,000,000



PROJECT DESCRIPTION:

The section of Chugach's 34.5 kV loop in east Anchorage that runs from Anchorage Substation to Debarr Substation was constructed in the 1950s and has reached the end of its useful life. During a 2016 inspection, significant pole rot was discovered in this section. To maintain a high level of reliability, this section of line will be replaced with a new underground circuit. This project would retire the existing overhead circuit that goes from Anchorage Substation north along Bragaw to East 6th Avenue and a new underground circuit would be installed in new and existing easements.

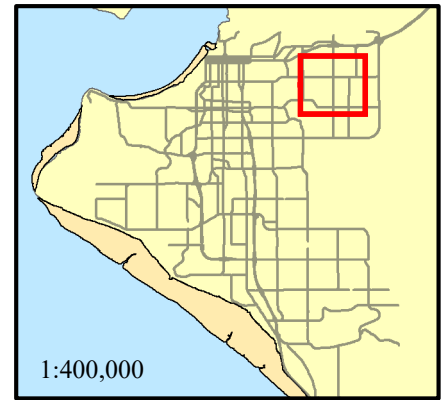
NOTES:

This is for reference and review purposes only of proposed Undergrounding Projects and is for official Chugach Electric Association use only.

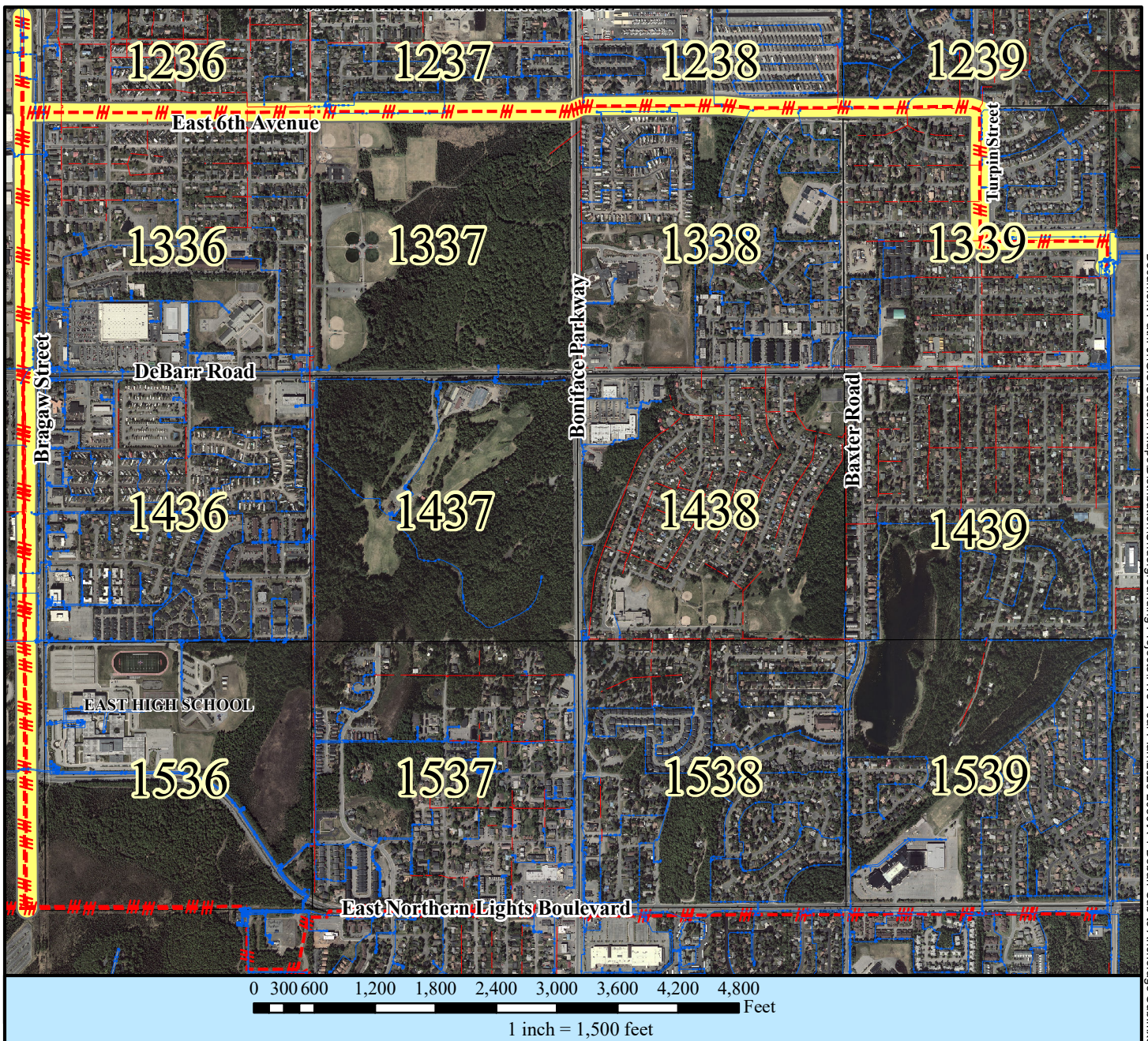
For additional information concerning this project, please contact Jake Moe at 762-4720.

LEGEND

- Primary Overhead Conductor
- Primary Underground Conductor
- # 34.5 kV Transmission Overhead
- Project Area



VICINITY MAP



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**TITLE 21 PROJECT
AERO ACRES
ROSELANDS SUBDIVISION**

PROJECT NUMBER: E2314213

PROJECT COST: \$800,000



PROJECT DESCRIPTION:

This project will underground approx. 0.5 miles of OH single-phase residential conductor due to age-related strength issues identified on a large number of poles within the subdivision.

NOTES:

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For additional information concerning this project, please contact Jake Moe at 762-4720.

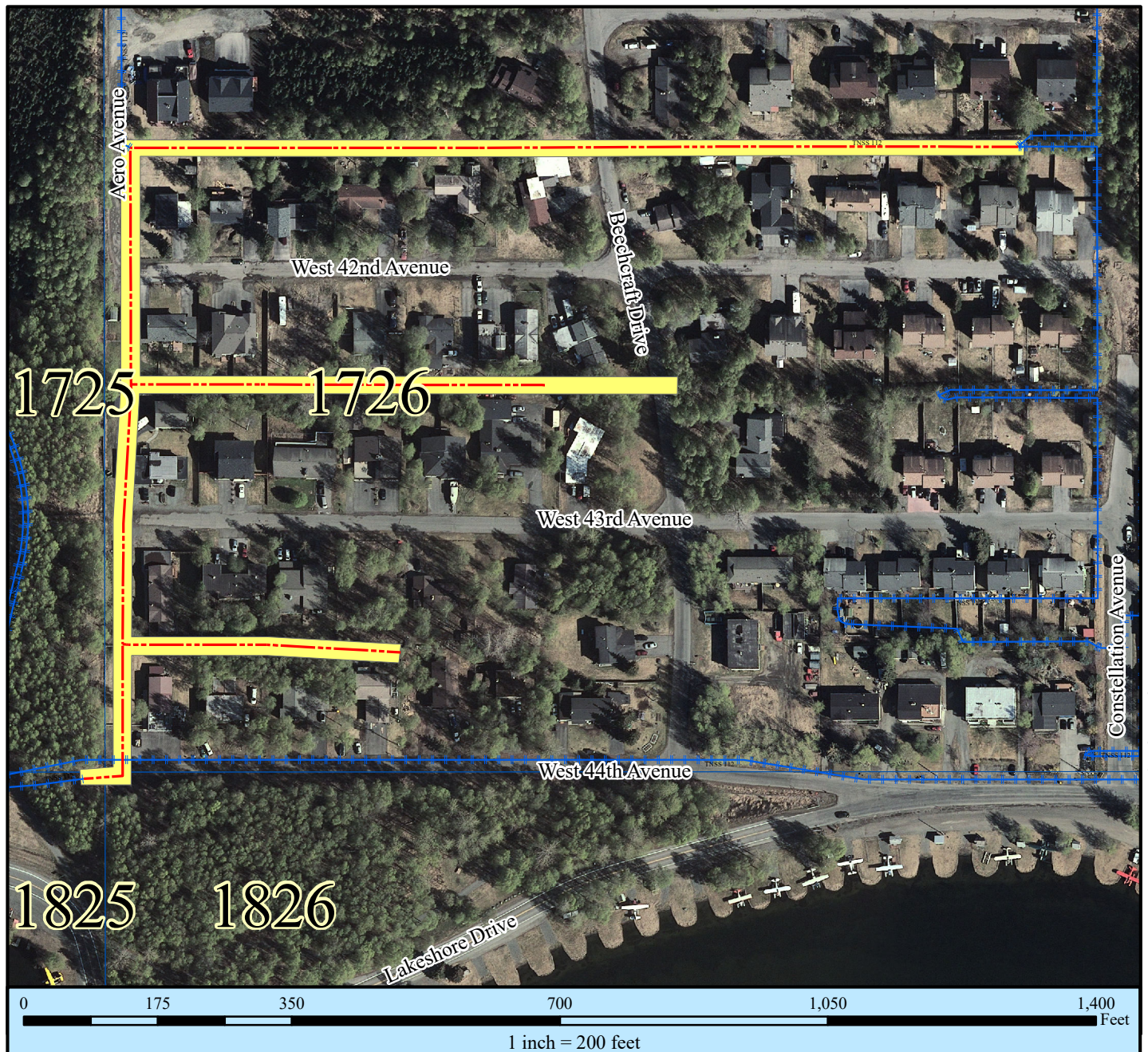
LEGEND

- Primary Overhead Conductor
- Primary Underground Conductor
- Project Area



1:400,000

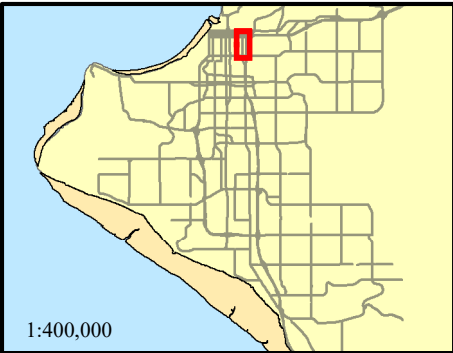
VICINITY MAP



Document Path: J:\GIS\Custom Maps\Distribution\Undergrounding Projects\Five Year Plan\2026-2030\A-2 Aero Acres.mxd

Coordinate System: NAD83, State Plane, Alaska Zone 4, FIPS 5004 Feet

TITLE 21 PROJECT
Gambell Street: 3rd Avenue to 15th Avenue
 Downtown Community Council: Anchorage Townsite East Addition Subdivision
PROJECT NUMBER: P1900043 **PROJECT COST: \$10,000,000**



VICINITY MAP

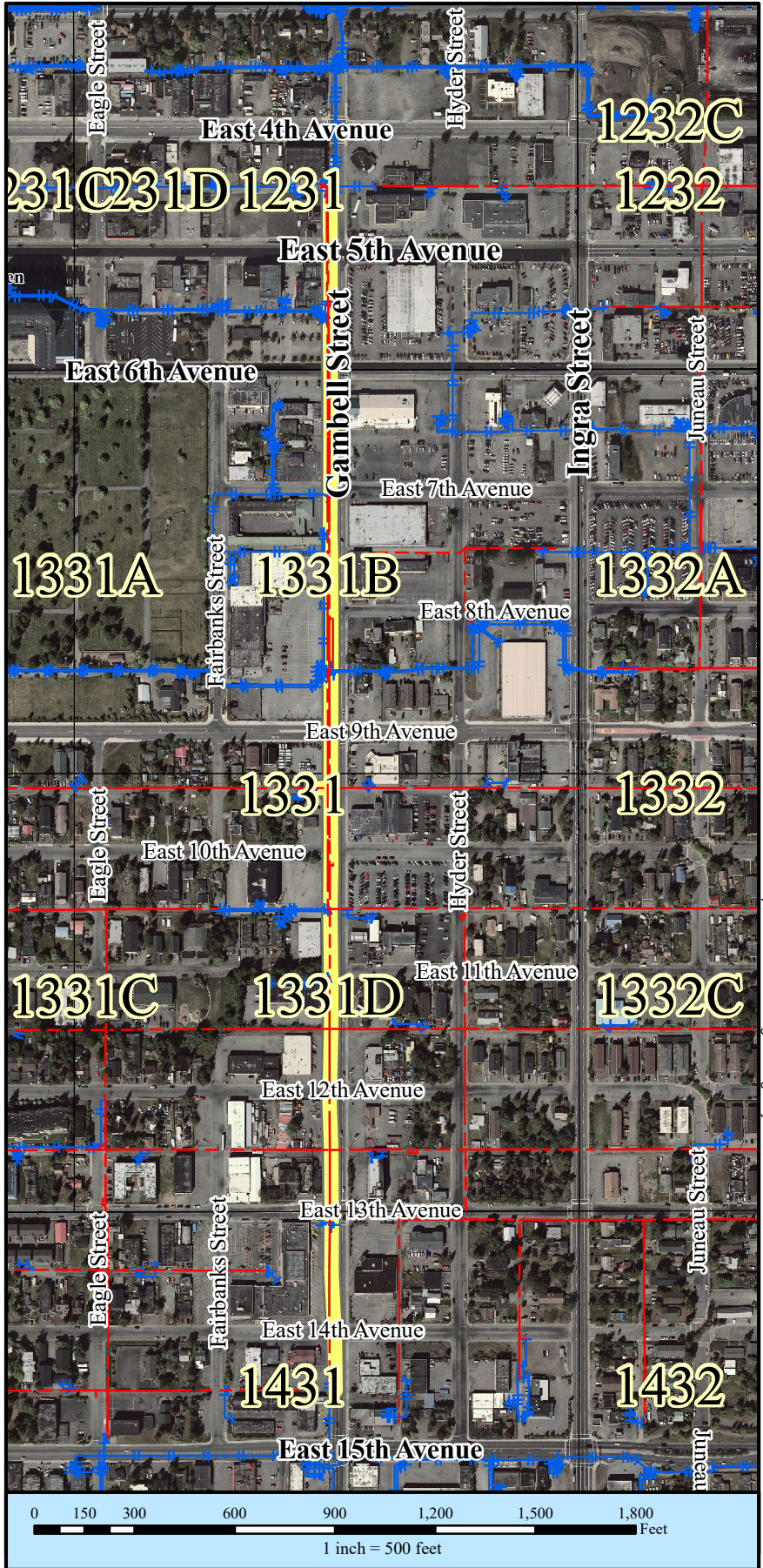


PROJECT DESCRIPTION:
 This project will underground overhead powerlines along Gambell Street from 3rd Avenue to the south side of 15th Avenue. This line has multiple system voltages on it. This project is planned to be in conjunction with an Alaska DOT project that will also be upgrading the street lighting. This project will not be occurring without participation of Alaska DOT. Gambell Street is described as a Target Area outlined in the Title 21 Underground Ordinance.

NOTES:
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 For additional information concerning this project, please contact Jake Moe at 762-4720.

LEGEND

- Primary Overhead Conductor
- +— Primary Underground Conductor
- Project Area



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TITLE 21 PROJECT NEW GIRDWOOD TOWNSITE



PROJECT NUMBER: E2514340

PROJECT COST: \$500,000

PROJECT DESCRIPTION:

This project will underground approximately 720 feet of 3-phase primary conductor along Hightower Road in the New Girdwood Townsite area. This section of overhead cable is currently built outside of utility easement, and the new underground cables will be relocated into utility easement. This project will also explore the possibility of a new feeder tie between feeders GWSS 322 and GWSS 422.

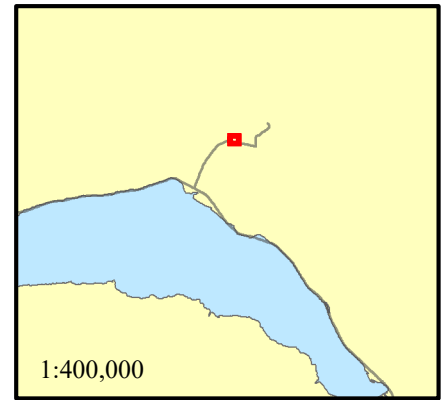
NOTES:

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For additional information concerning this project, please contact Jake Moe at 762-4720.

LEGEND

- Primary Overhead Conductor
- Primary Underground Conductor
- Project Area



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VICINITY MAP



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TITLE 21 PROJECT

W. 9th Avenue & P Street

South Addition Community Council: L Street Slide Replat Subdivision

PROJECT NUMBER: E2514342

PROJECT COST: \$1,150,000



PROJECT DESCRIPTION:

This project will underground primary overhead distribution conductors in the Bootlegger's Cove subdivision. Multiple customers have requested these lines be undergrounded. This project is in a target area described in the Title 21 Underground Ordinance because of existing overhead lines adjacent to the Delany Park Strip.

NOTES:

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For additional information concerning this project, please contact Jake Moe at 762-4720.

LEGEND

- Primary Overhead Conductor
- Primary Underground Conductor
- Project Area



VICINITY MAP



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TITLE 21 PROJECT SPENARD RD REHABILITATION/RELOCATION

PROJECT NUMBER: E2214178PROJECT COST: \$2,000,000



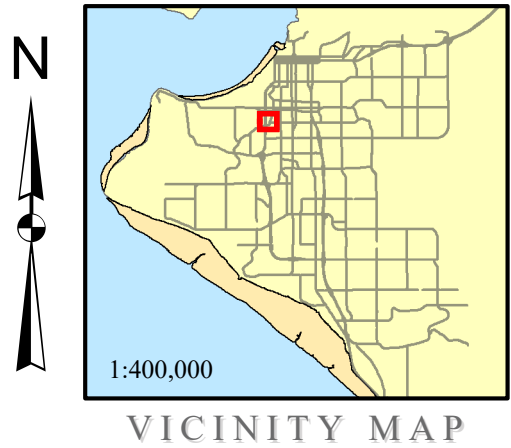
PROJECT DESCRIPTION:
 This project will underground overhead powerlines along Spenard Rd from W 30th Ave to Oregon Dr. It is planned in conjunction with an Alaska DOT project that will be for lane change conversion, pedestrian improvements, drainage reconstruction, and signals and lighting upgrades. Spenard Road is described as a Target Area outlined in the Title 21 Underground Ordinance.

NOTES:
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 For additional information concerning this project, please contact Jake Moe at 762-4720.

LEGEND

- Primary Overhead Conductor
- - - Primary Underground Conductor
- Project Area



Coordinate System: NAD83, State Plane, Alaska Zone 4, FIPS 5004 Feet

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TITLE 21 PROJECT

Glacier Street & 22nd Avenue

Russian Jack Community Council

PROJECT NUMBER: E2114038 PROJECT COST: \$2,000,000



PROJECT DESCRIPTION:

This project will remove overhead electric lines west of Boniface Parkway and north of E. 24th Avenue. The new underground lines will connect primary loops for increased reliability. This area has seen a very high number of outages, especially due to high winds and squirrels. Restoring outages has been difficult due to accessibility issues. This project is in the Target Area described in the Title 21 Underground Ordinance because undergrounding these overhead lines will eliminate the power outage risk associated with high winds. The MOA Planning Department issued a "Three Second Gust Wind Zones" map. This project is inside the highest wind speed in ML&P territory, 120 MPH.

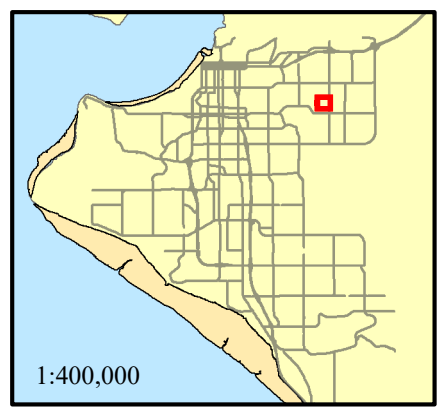
NOTES:

This is for reference and review purposes only of proposed Undergrounding Projects and is for official Chugach Electric Association use only.

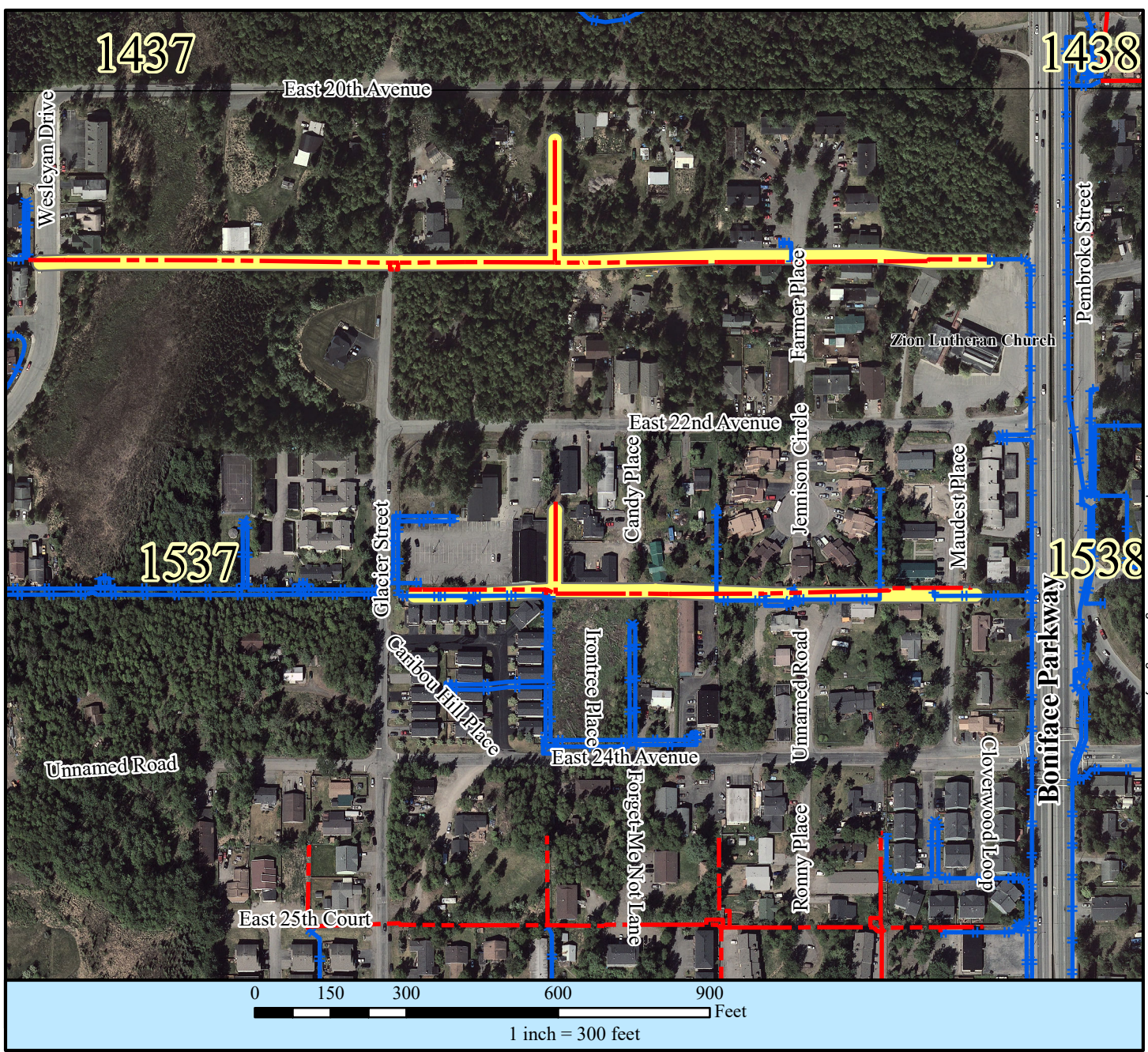
For additional information concerning this project, please contact Jake Moe at 762-4720.

LEGEND

- Primary Overhead Conductor
- Primary Underground Conductor
- Project Area



VICINITY MAP



Document Path: J:\GIS\Custom Maps\Distribution\Undergrounding Projects\Five Year Plan\2026-2030\A-7 Glacier St. & 22nd Ave.mxd

TITLE 21 PROJECT

Blueberry Road
Midtown Community Council

PROJECT NUMBER: E2314214

PROJECT COST: \$550,000



PROJECT DESCRIPTION:

This project will underground overhead powerlines along Blueberry Road between Fireweed Lane and Northern Lights Boulevard. This project is in the Target Area described in the Title 21 Underground Ordinance because it will remove overhead lines that are adjacent to Steller Secondary School.

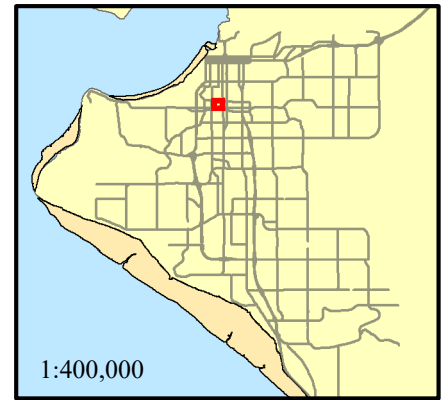
NOTES:

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For additional information concerning this project, please contact Jake Moe at 762-4720.

LEGEND

- Primary Overhead Conductor
- Primary Underground Conductor
- Project Area



1:400,000

VICINITY MAP



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TITLE 21 PROJECT FOREST PARK DR



PROJECT NUMBER: E2414294

PROJECT COST: \$550,000

PROJECT DESCRIPTION:

This project will underground and loop approximately 800ft of single-phase primary conductor and 1500ft of open-wire secondary conductor nearby Forest Park Dr in the Lingo subdivision. Undergrounding these cables will improve reliability by removing rotting poles and closing radial circuits into a loop.

NOTES:

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For additional information concerning this project, please contact Jake Moe at 762-4720.

LEGEND

- Primary Overhead Conductor
- Primary Underground Conductor
- Project Area



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VICINITY MAP



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TITLE 21 PROJECT TURNAGAIN PARK SUBDIVISION



PROJECT NUMBER: E2514341

PROJECT COST: \$2,950,000

PROJECT DESCRIPTION:

This project will underground approximately 1/2 mile of #4 ACSR 3-phase and #2 ACSR 1-phase overhead line on Turnagain Substation feeder 142. This project will be a multi-year phased undergrounding effort building a backbone underground circuit in the first year, with smaller undergrounding and loop closure projects in subsequent years.

NOTES:

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For additional information concerning this project, please contact Jake Moe at 762-4720.

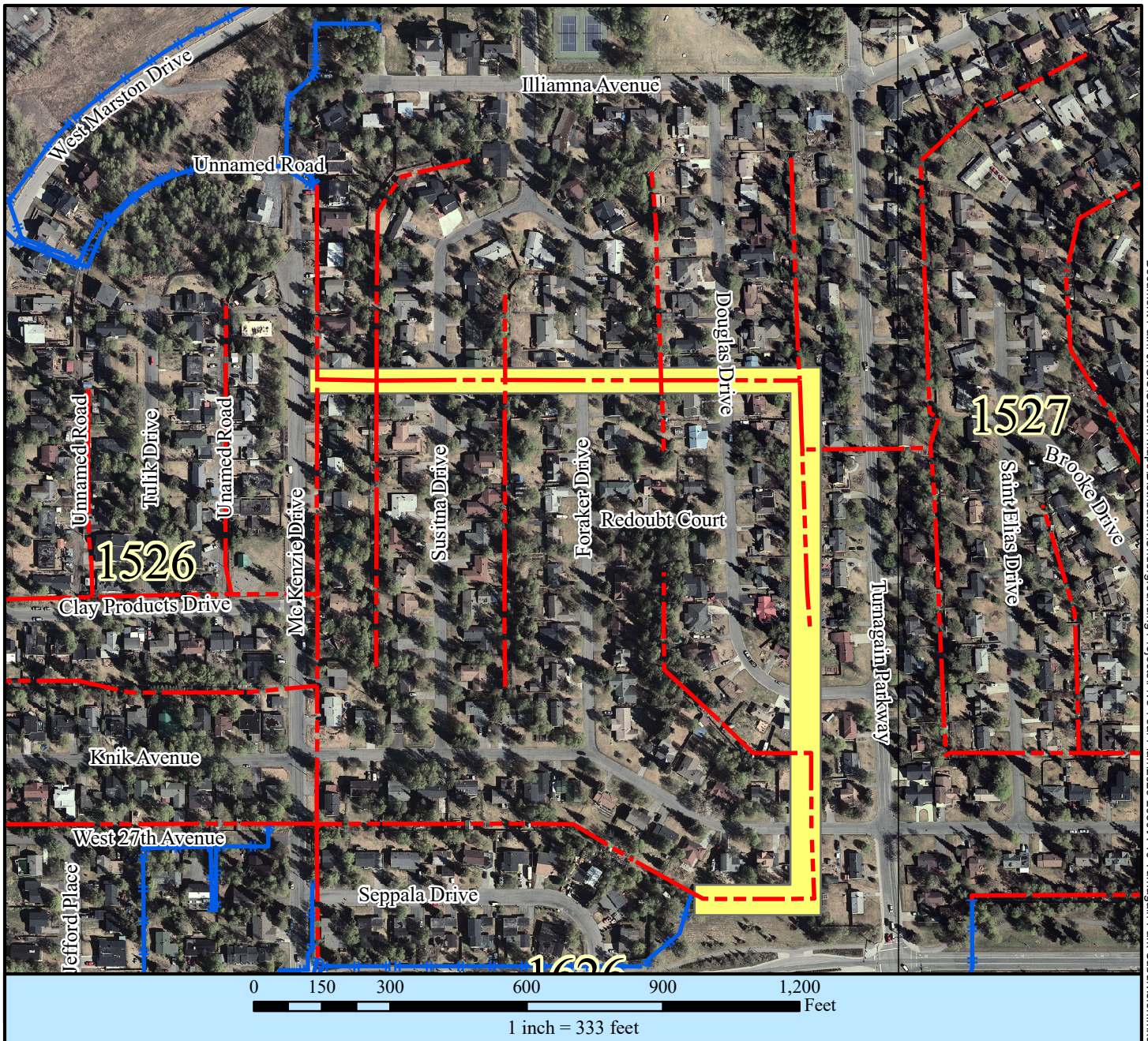
LEGEND

- Primary Overhead Conductor
- Primary Underground Conductor
- Project Area



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VICINITY MAP



Document Path: J:\GIS\Custom Maps\Distribution\Undergrounding Projects\Five Year Plan\2026-2030A-10 Turnagain Park Subdivision.mxd

TITLE 21 PROJECT

Air Guard Road - Jewel Lake

PROJECT NUMBER: E2614402 & E2620093 PROJECT COST: \$3,000,000



PROJECT DESCRIPTION:

This project will underground approximately 2,600 ft of transmission as well as 3,400 ft of overhead on Raspberry Road, from Air Guard Road to Jewel Lake Road.

NOTES:

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For additional information concerning this project, please contact Jake Moe at 762-4720.

LEGEND

- Primary Overhead Conductor
- Primary Underground Conductor
- Project Area



1:400,000

VICINITY MAP



Document Path: J:\GIS\Custom Maps\Distribution\Undergrounding Projects\Five Year Plan\2026-2030A-11 Air Guard Road - Jewel Lake.mxd

TITLE 21 PROJECT GREEN VALLEY

PROJECT NUMBER: E2614410

PROJECT COST: \$250,000



PROJECT DESCRIPTION:

This project will underground approx. 0.25 miles of OH three-phase conductor due to age-related strength issues identified on a large number of poles within the subdivision.

NOTES:

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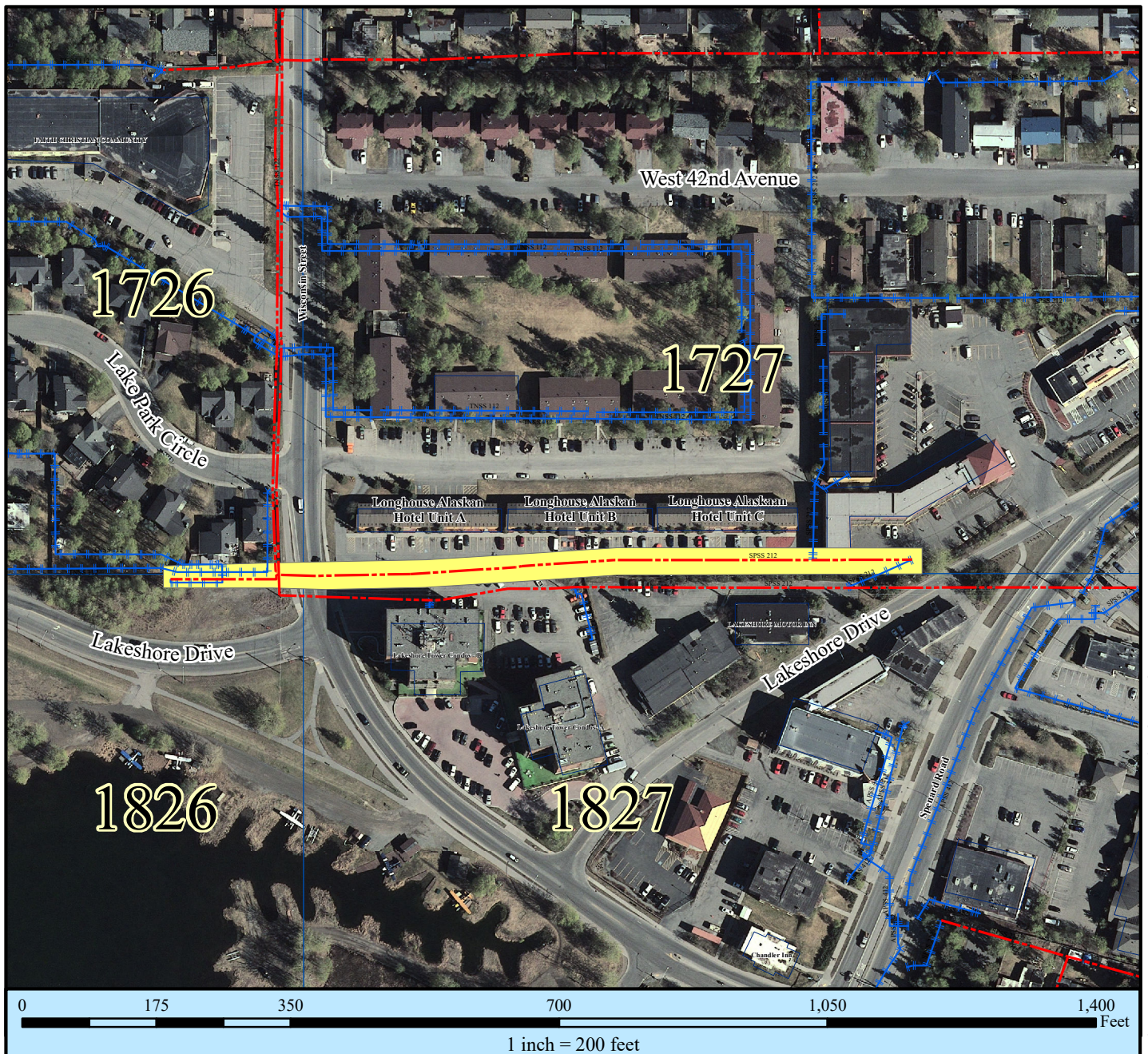
For additional information concerning this project, please contact Jake Moe at 762-4720.

LEGEND

- Primary Overhead Conductor
- Primary Underground Conductor
- Project Area



VICINITY MAP



Document Path: J:\GIS\Custom Maps\Distribution\Undergrounding Project\Five Year Plan\2026-2030\A-12 Green Valley.mxd

Coordinate System: NAD83, State Plane, Alaska Zone 4, FIPS 5004 Feet

TITLE 21 PROJECT
Frontierland Park: 10th & E Street
 South Addition Community Council: South Addition Subdivision
PROJECT NUMBER: TBD **PROJECT COST: \$350,000**

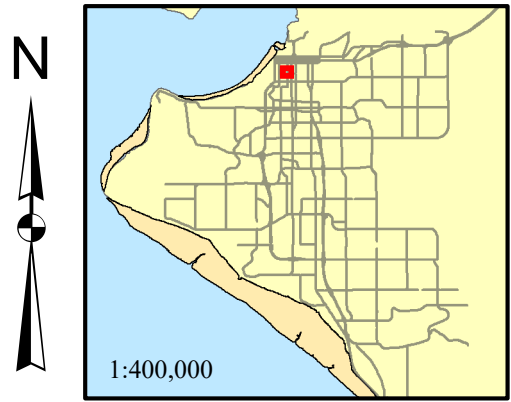


PROJECT DESCRIPTION:
 This project will underground overhead conductors near the intersection of 10th Avenue and E Street. This project is in a Target Area described in the Title 21 Underground Ordinance because it is in the area described in the Central Business District and because of its proximity to two parks, Frontierland Park and The Park Strip.

NOTES:
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 For additional information concerning this project, please contact Jake Moe at 762-4720.

LEGEND
 — Primary Overhead Conductor
 — Primary Underground Conductor
 ■ Project Area



VICINITY MAP



Document Path: J:\GIS\Custom Maps\Distribution\Undergrounding Projects\Five Year Plan\2026-2030-A-13 Frontierland Park - 10th & E Street

TITLE 21 PROJECT HUFFMAN ROAD

Huffman Road - Lake Otis to Elmore

PROJECT NUMBER: E2614411

PROJECT COST: \$2,500,000



PROJECT DESCRIPTION:

This project will underground approximately 1 mile of overhead distribution and sub-transmission cable along Huffman Road, from Lake Otis Parkway to Elmore Road. This continues the efforts of other undergrounding projects in the area to improve capacity and reliability of backbone circuits along Huffman Road. Installing new and larger underground cable will improve contingency capability of Huffman Substation during outages.

NOTES:

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For additional information concerning this project, please contact Jake Moe at 762-4720.

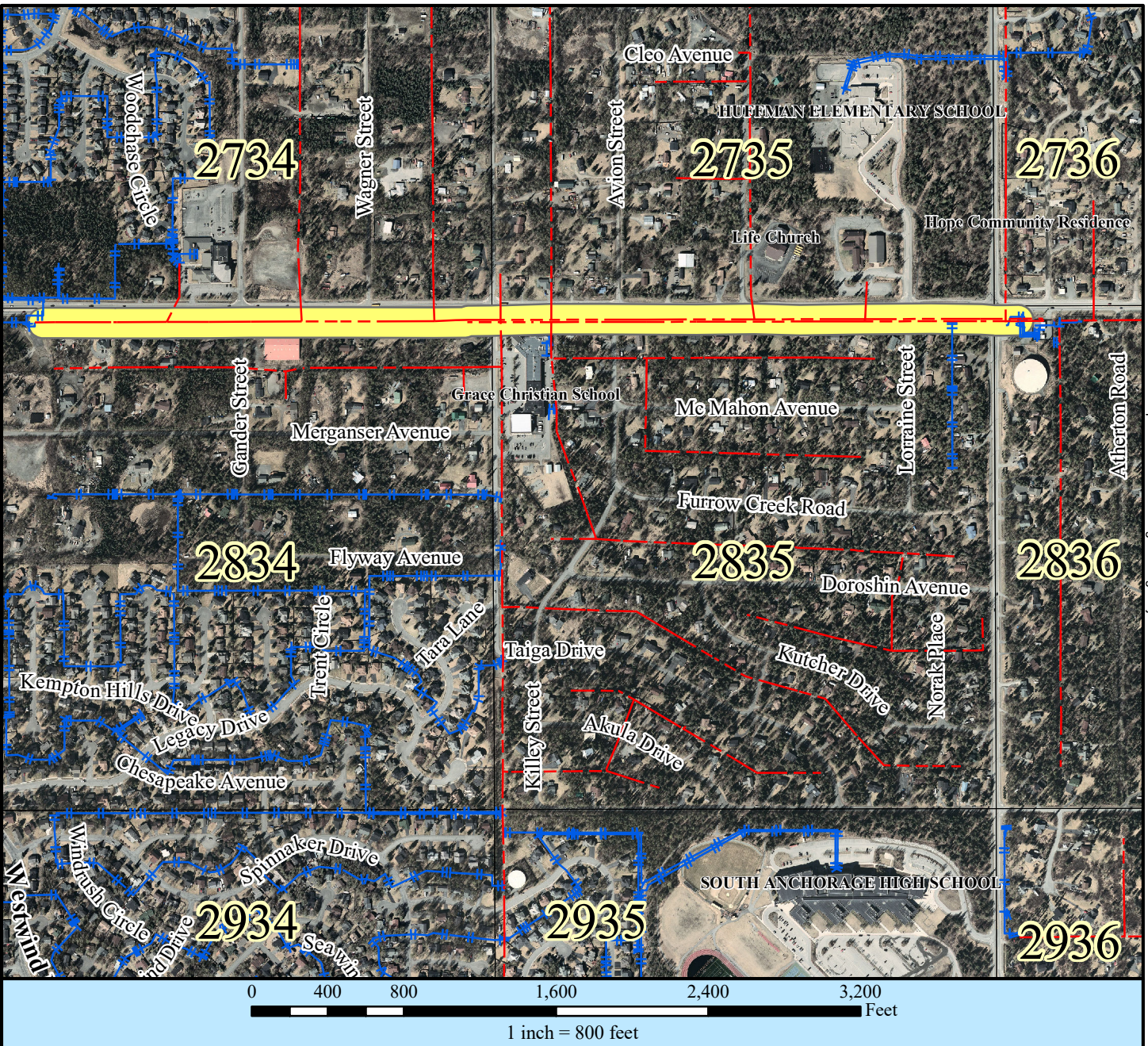
LEGEND

- Primary Overhead Conductor
- Primary Underground Conductor
- Project Area



1:400,000

VICINITY MAP



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TITLE 21 PROJECT

7th/8th Alley: Gambell St. to Ingra St.

Downtown Community Council:Original Subdivision

PROJECT NUMBER: E2114039

PROJECT COST: \$800,000



PROJECT DESCRIPTION:

This project will underground overhead conductors in the 7th/8th Avenue alley between Gambell Street and Ingra Street, and underground overhead conductors along Hyder Street between 7th Avenue and 8th Avenue. Other nearby alleys between Karluk St. and Ingra St. may be undergrounded as part of this project. This project is in a Target Area described in the Title 21 Underground Ordinance.

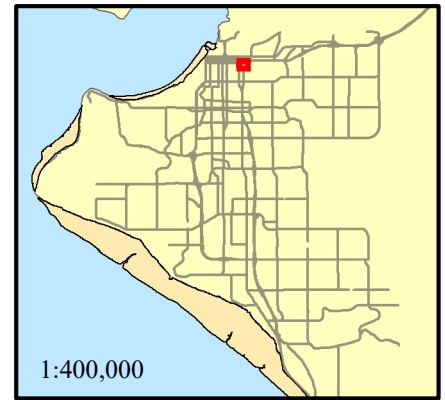
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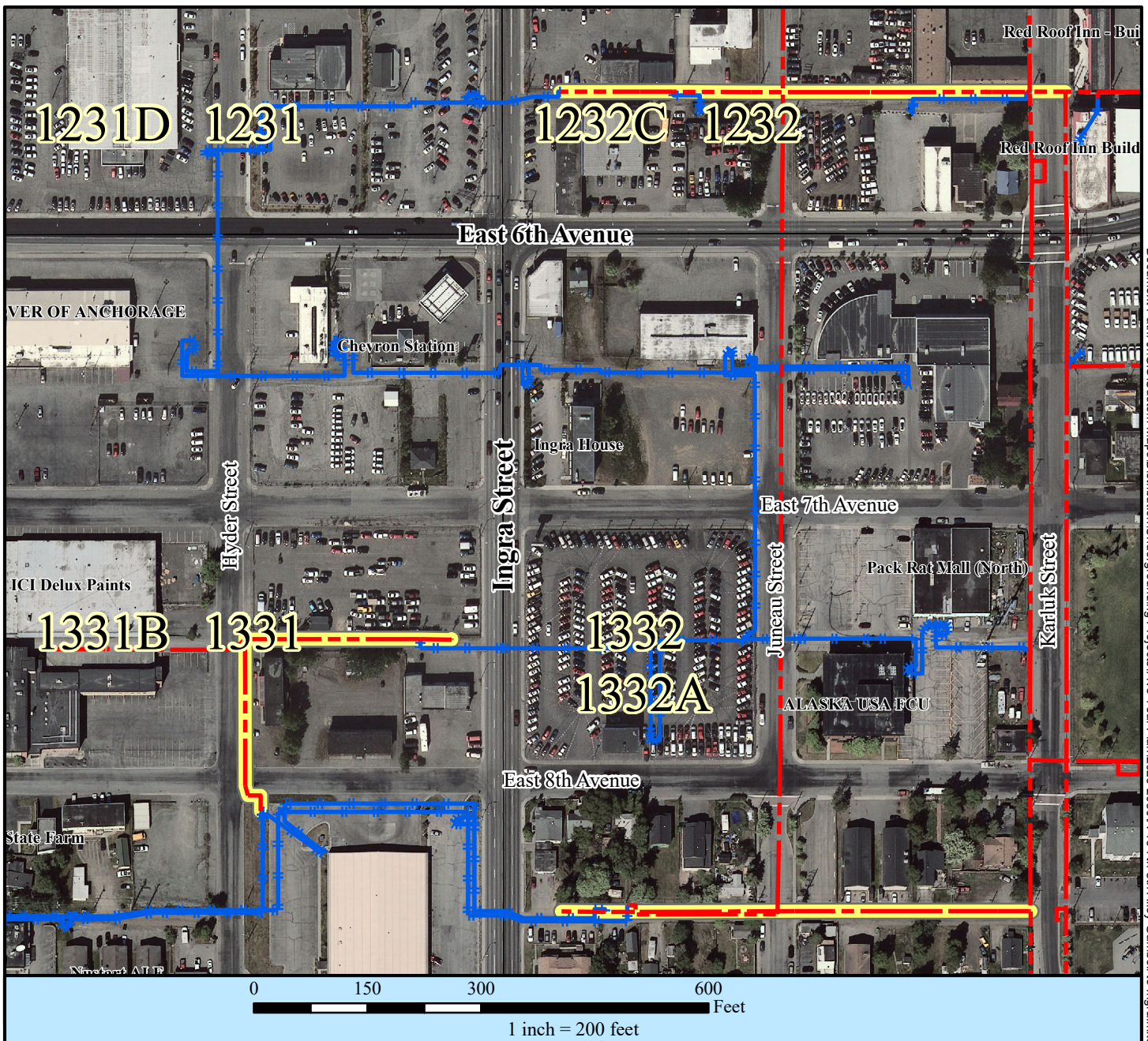
For additional information concerning this project, please contact Jake Moe at 762-4720.

LEGEND

- Primary Overhead Conductor
- Primary Underground Conductor
- Project Area



VICINITY MAP



Document Path: J:\GIS\Custom Maps\Distribution\Undergrounding Projects\Five Year Plan\2026-2030A-16 7th-8th Alley-Gambell to Ingra.mxd

TITLE 21 PROJECT

Logan Street: E 17th Ave to E 20th Ave

Airport Heights Community Council: City View Subdivision

PROJECT NUMBER: E2614413

PROJECT COST: \$2,150,000



PROJECT DESCRIPTION:

This project will underground back lot overhead conductors around Logan Street and Talkeetna Street from E. 17th Avenue to E. 20th Avenue. Multiple customers have requested these lines be undergrounded. The existing poles are at the end of their useful life, and safety and access issues will be resolved by undergrounding this area.

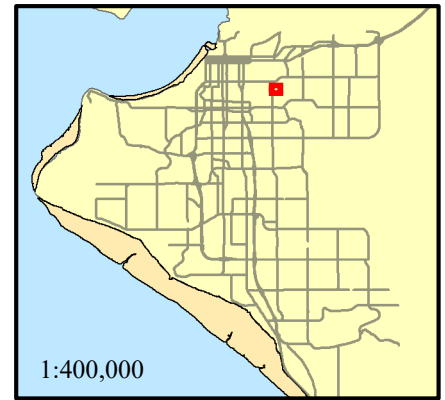
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For additional information concerning this project, please contact Jake Moe at 762-4720.

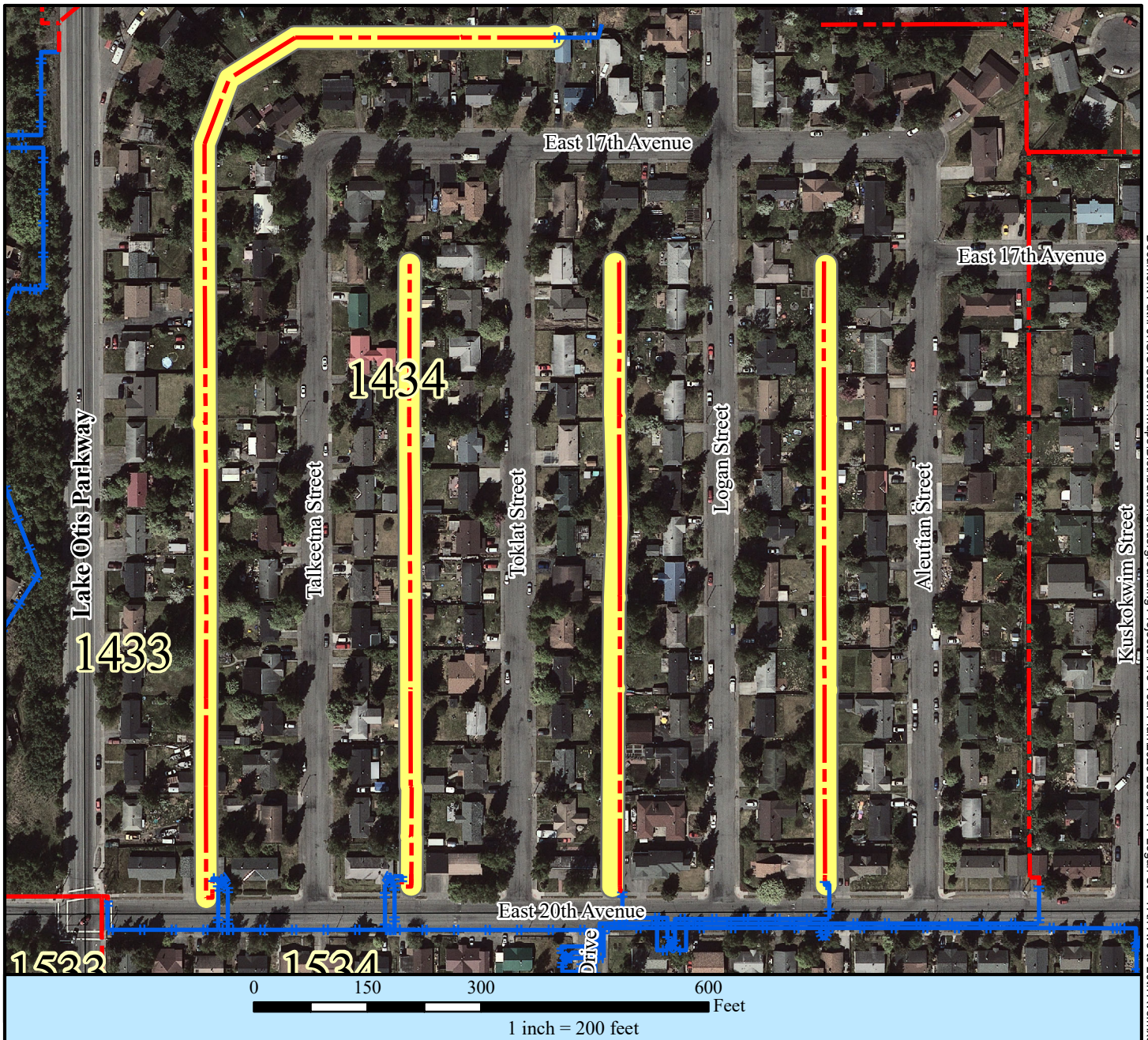
LEGEND

- Primary Overhead Conductor
- Primary Underground Conductor
- Project Area



1:400,000

VICINITY MAP



Document Path: J:\GIS\Custom Maps\Distribution\Undergrounding Projects\Five Year Plan\2026-2030A-17 Logan St - 17th Ave to 20th Ave.mxd

TITLE 21 PROJECT

24th Avenue & Glacier Street

Russian Jack Community Council

PROJECT NUMBER: E2614407

PROJECT COST: \$2,600,000



PROJECT DESCRIPTION:

This project will remove overhead electric lines west of Boniface Parkway, south of E. 24th Avenue, north of Northern Lights Boulevard. The new underground lines will connect primary loops for increased reliability. This area has seen a very high number of outages, especially due to high winds and squirrels. Restoring outages have been difficult due to accessibility issues. This project is in the Target Area described in the Title 21 Underground Ordinance because undergrounding these overhead lines will eliminate the power outage risk associated with the high winds. The MOA Planning Department issued a "Three Second Gust Wind Zones" map. This project is inside the highest wind speed in ML&P territory, 120 MPH.

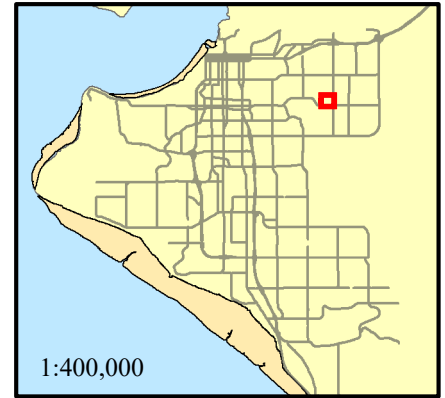
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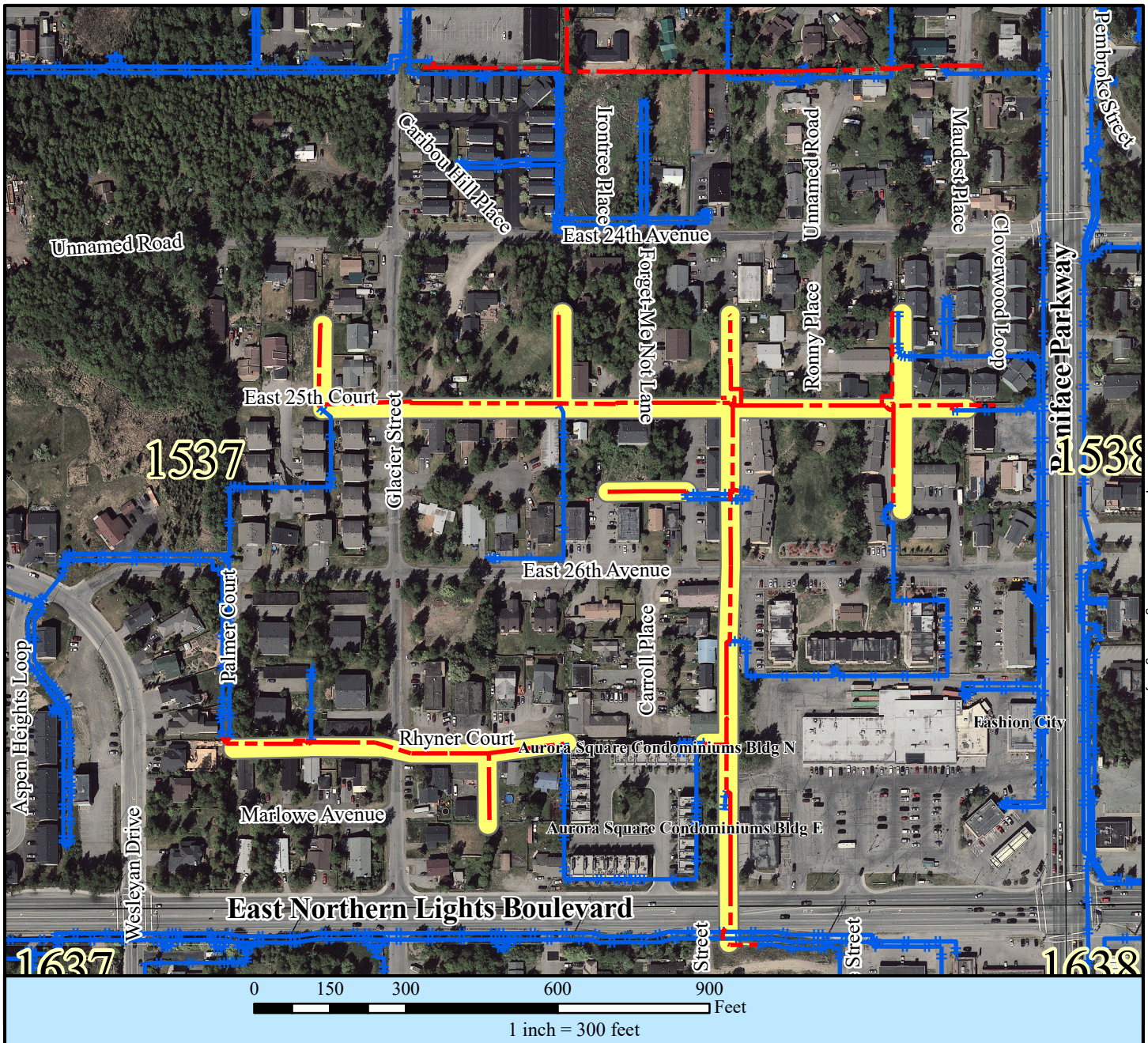
For additional information concerning this project, please contact Jake Moe at 762-4720.

LEGEND

- Primary Overhead Conductor
- Primary Underground Conductor
- Project Area



VICINITY MAP



Document Path: J:\GIS\Custom Maps\Distribution\Undergrounding Projects\Five Year Plan\2026-2030\A-18 Glacier St & 24th Ave.mxd

TITLE 21 PROJECT WICKERSHAM PARK

PROJECT NUMBER: E2614417

PROJECT COST: \$750,000



PROJECT DESCRIPTION:

This project will underground approx. 0.5 miles of three-phase #4 & #4/0 ACSR to improve backbone feeder capacity between LASS 177 & DLSS 412.

NOTES:

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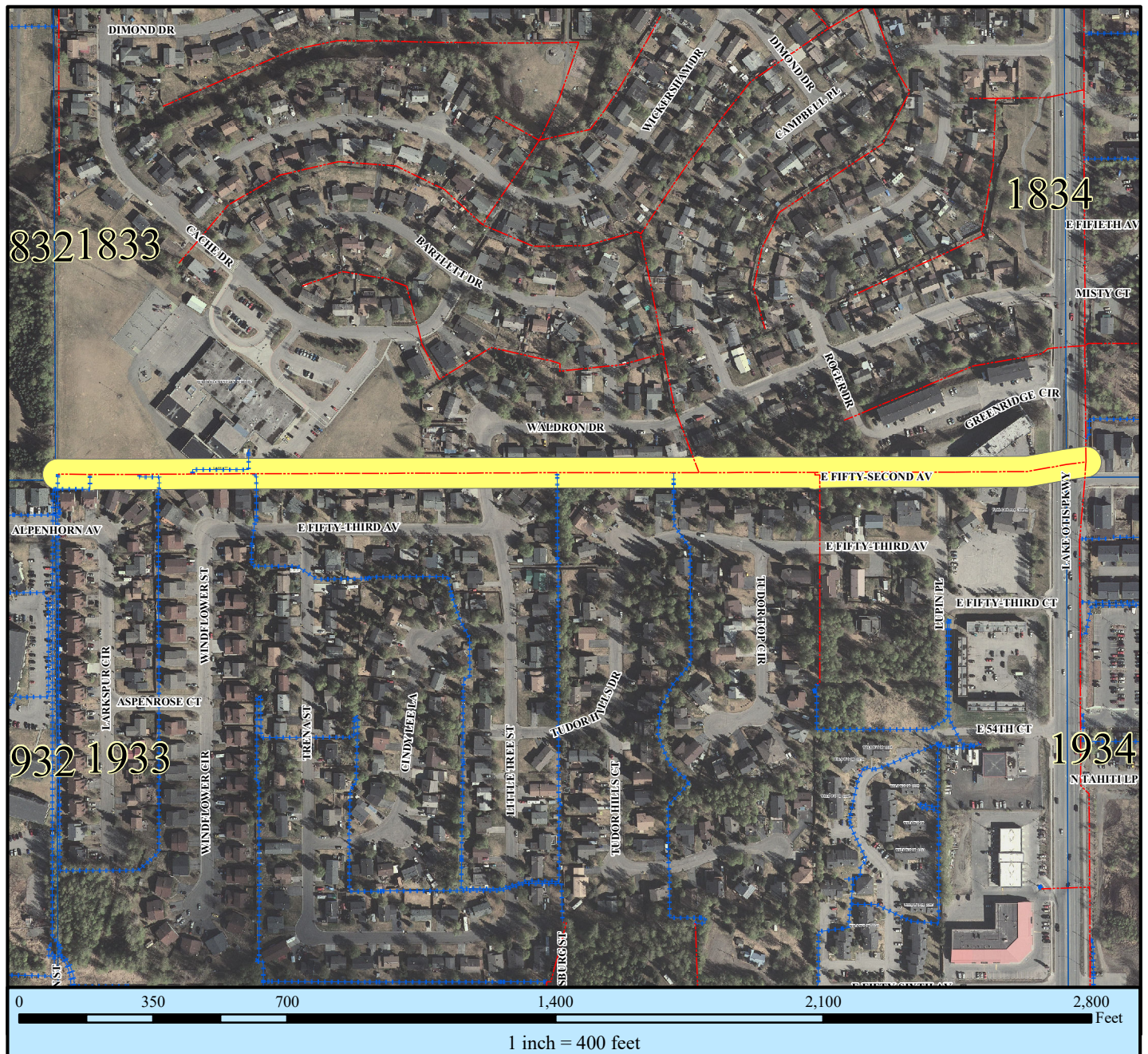
For additional information concerning this project, please contact Jake Moe at 762-4720.

LEGEND

- Primary Overhead Conductor
- - - Primary Underground Conductor
- Project Area



VICINITY MAP



Coordinate System: NAD83, State Plane, Alaska Zone 4, FIPS 5004 Feet

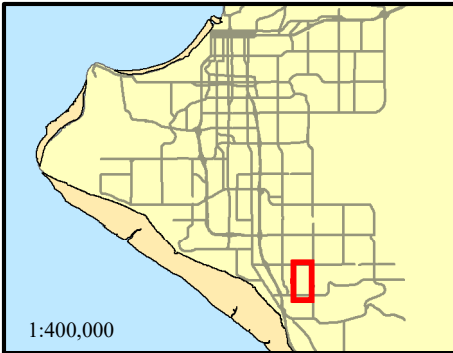
TITLE 21 PROJECT

Cange St

Huffman to De Armoun Rd

PROJECT NUMBER: E2614408

PROJECT COST: \$2,000,000



VICINITY MAP

PROJECT DESCRIPTION:

This project will underground approximately 1 mile of 4/0 3-phase primary overhead conductor between Huffman Road and De Armoun Road. This North/South run of cable is along Cange Street, Pintail Street, and backyard lot lines. In addition to undergrounding, this project will install cable with improved capacity to handle increasing loads and enable backbone feeder tie capability between feeders HFSS 312 and KLSS 812.

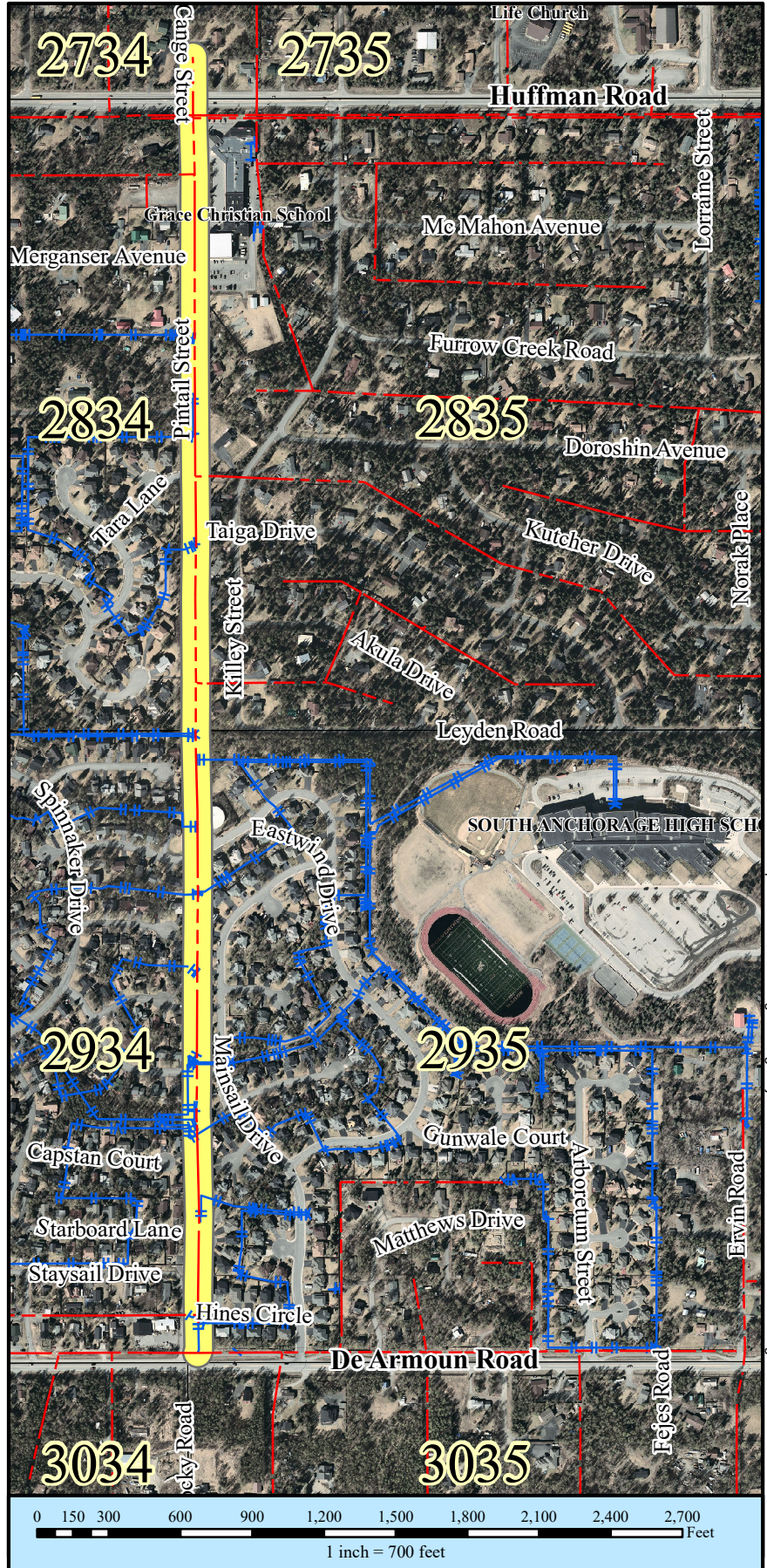
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For additional information concerning this project, please contact Jake Moe at 762-4720.

LEGEND

- Primary Overhead Conductor
- +— Primary Underground Conductor
- Project Area



Document Path: J:\GIS\Custom Maps\Distribution\Undergrounding Projects\Five Year Plan\2026-2030\A-21 Cange St-Huffman to DeArmoun Rd.mxd

TITLE 21 PROJECT

Needle Circle

Tudor Area Community Council

PROJECT NUMBER: E2614414

PROJECT COST: \$600,000



PROJECT DESCRIPTION:

This project will underground overhead powerlines that have a high outage rate mostly due to falling trees and branches. Access to these overhead lines is currently very difficult because of the developed backyards and lots of trees.

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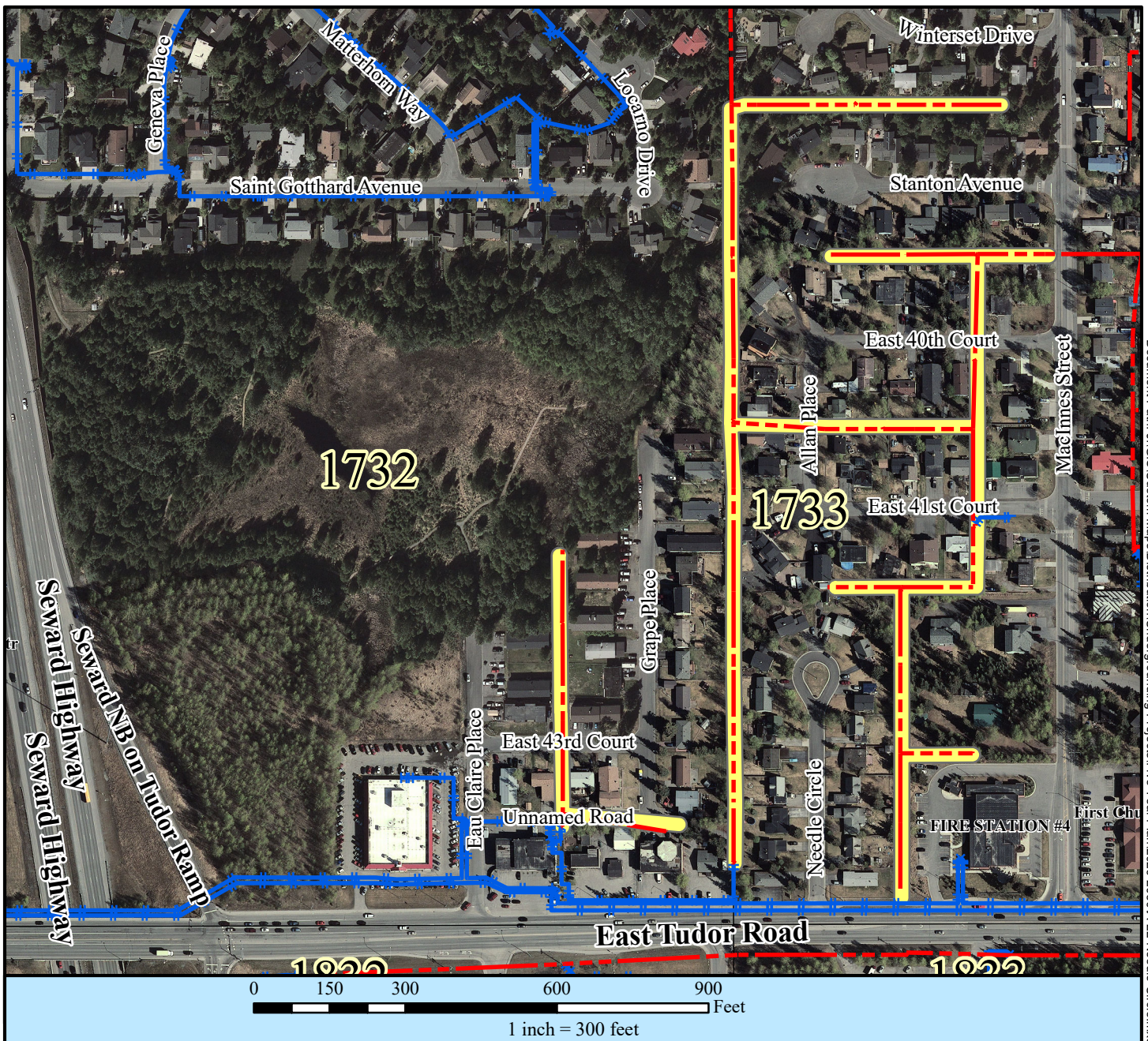
For additional information concerning this project, please contact Jake Moe at 762-4720.

LEGEND

- Primary Overhead Conductor
- Primary Underground Conductor
- Project Area



VICINITY MAP



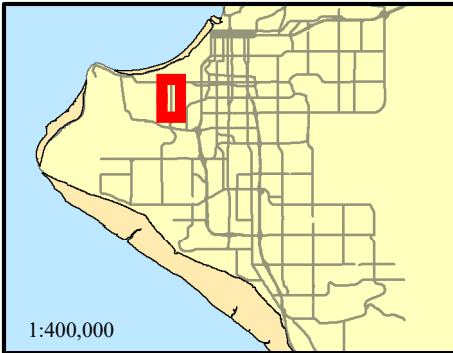
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TITLE 21 PROJECT WISCONSIN STREET Northern Lights to 44th Avenue



PROJECT NUMBER: E2614418

PROJECT COST: \$2,500,000



1:400,000

VICINITY MAP



PROJECT DESCRIPTION:

This project will retire 36 spans of overhead double-circuit primary conductor along the west side of Wisconsin Drive from Northern Lights Boulevard to W 44th Avenue. The northernmost 26 spans will be retired in addition to the poles, guy spans, and guy wires. The southernmost 10 spans are underbuilt on 138 kV structures and will only have the conductor and any additional distribution facilities removed. These overhead facilities are located on Grids 1626 and 1726 and have a total distance of 5200 feet.

Turnagain Substation is located on the east side of Wisconsin Drive on Grid 1627 and has four distribution feeders: Turnagain 112, 122, 132, and 142. All four feeders leave the substation as underground circuits and rise up to the pole structures on Wisconsin. Turnagain 112 and 122 go south as a double-circuit, and Turnagain 132 and 142 go north as a double-circuit. Double-circuit horizontal construction using one crossarm, as found on Wisconsin Street, creates working clearance problems and requires extra equipment and crew time whenever maintenance is needed.

The majority of the poles supporting the 4/0 ACSR double-circuit overhead line do not meet the NESC grade C minimum strength requirements. Also, under an n-1 contingency, the Turnagain 132 circuit is undersized and not capable of picking up Woodland Park 242 under summer or winter peak loads without complex switching of the load. The total load provided by the Turnagain 122 tie with Spenard 212 is also approaching winter and summer capacity limits. Replacing the circuits with 750 kmil would resolve both the NESC strength problem and contingency loading capacities.

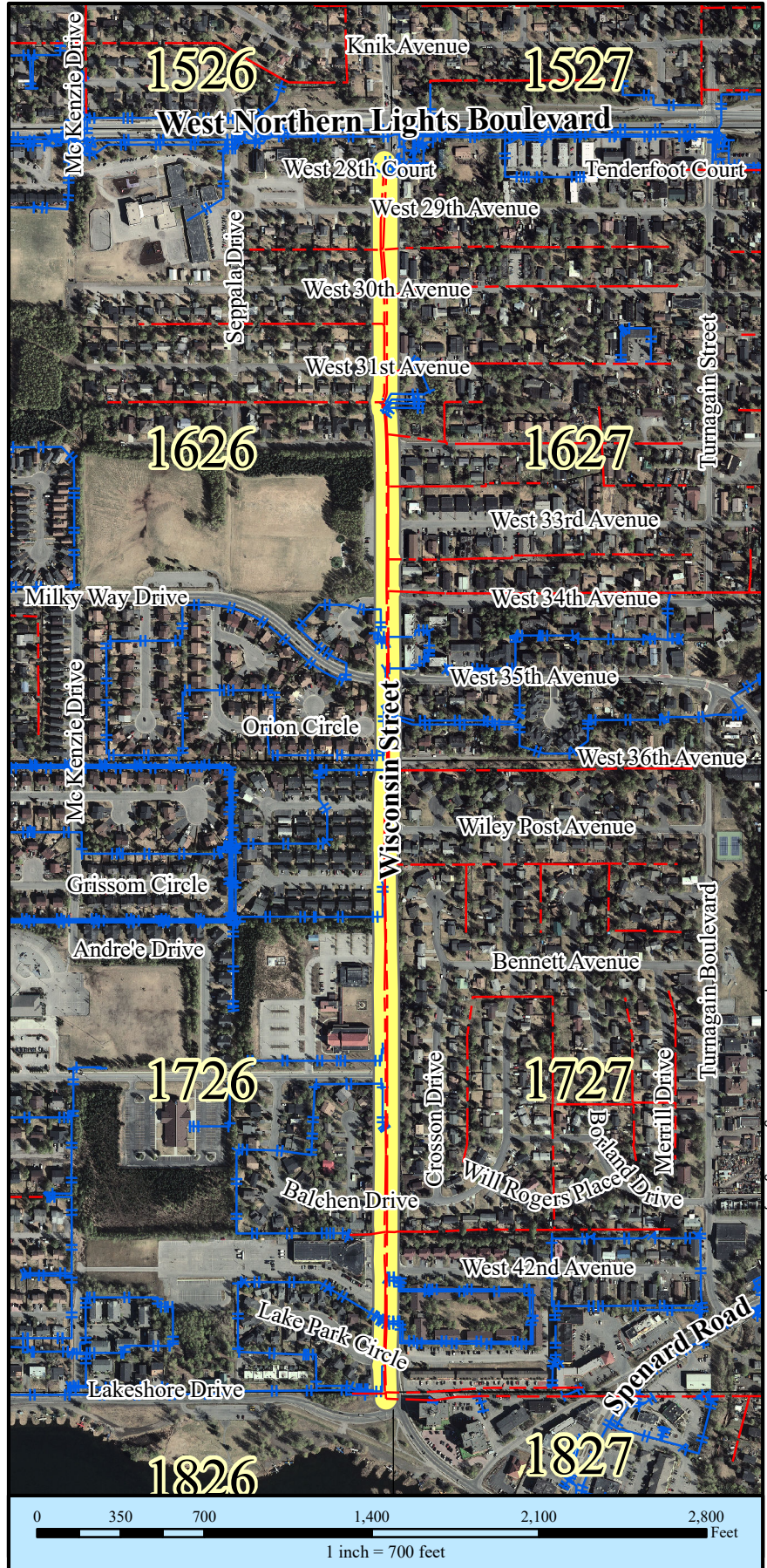
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For additional information concerning this project, please contact Jake Moe at 762-4720.

LEGEND

- Primary Overhead Conductor
- Primary Underground Conductor
- Project Area



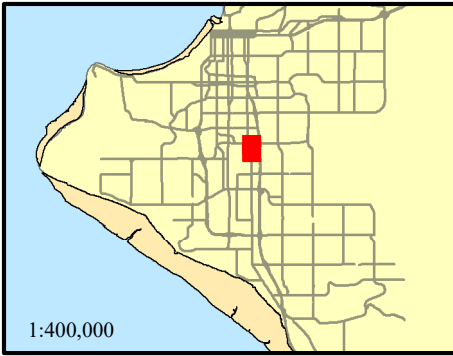
Document Path: J:\GIS\Custom Maps\Distribution\Undergrounding Projects\Five Year Plan\2026-2030\A-23 Wisconsin Street.mxd

TITLE 21 PROJECT WESTPARK SUBDIVISION

South of Dowling Road

PROJECT NUMBER: E2614416

PROJECT COST: \$500,000



VICINITY MAP



PROJECT DESCRIPTION:

This project will underground approx. 0.35 miles of 4/0 ACSR 3-phase overhead to support feeder load growth on LaTouche Substation feeder 122 and contingency support of Sand Lake Substation feeder 712.

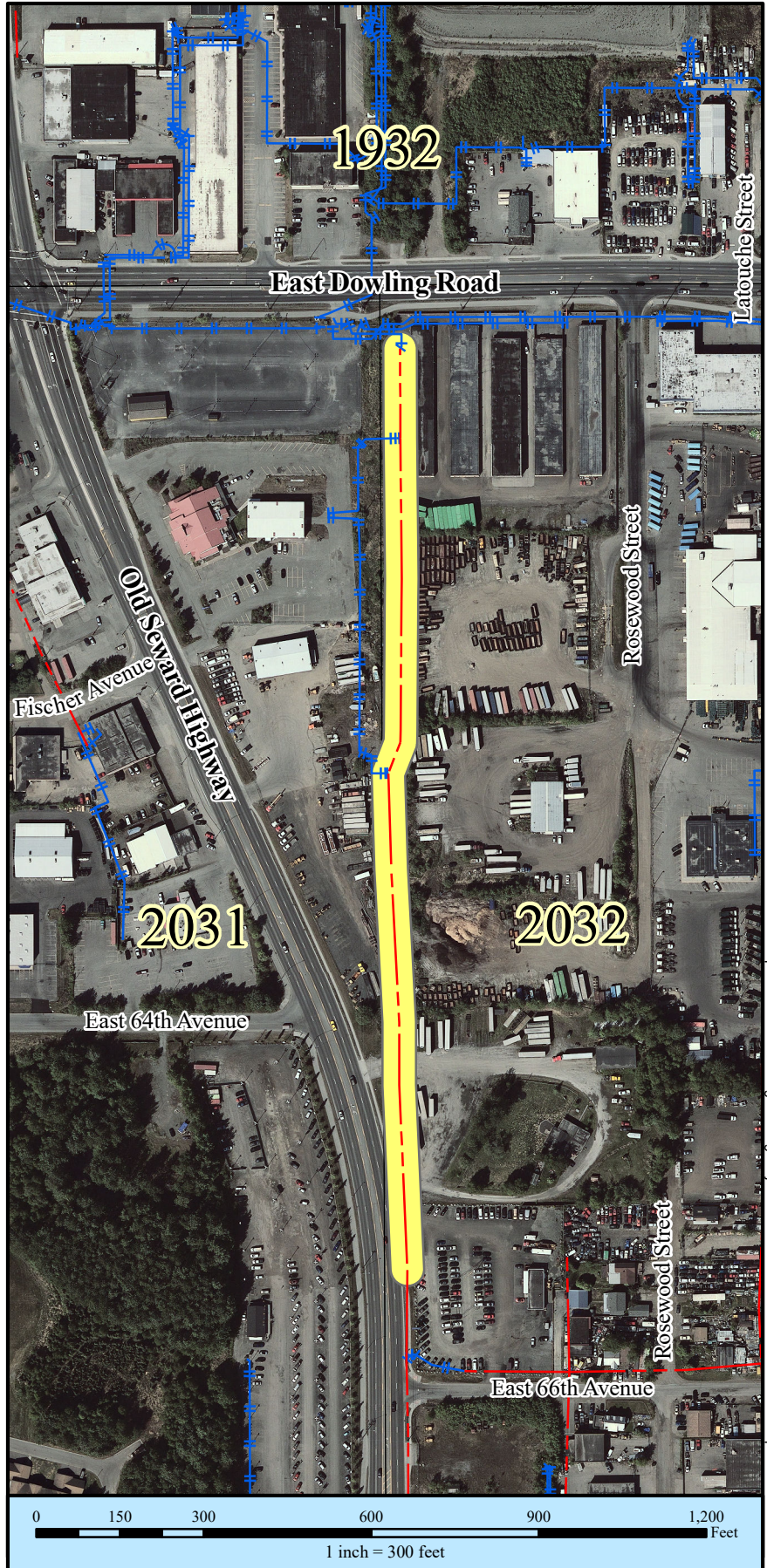
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For additional information concerning this project, please contact Jake Moe at 762-4720.

LEGEND

- Primary Overhead Conductor
- #— Primary Underground Conductor
- Project Area



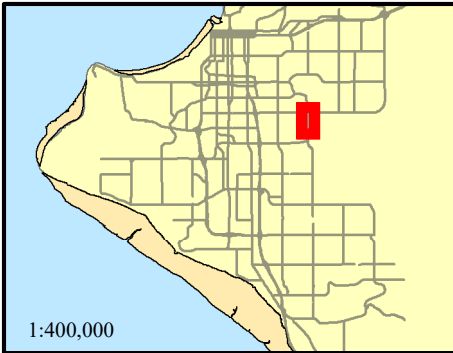
Document Path: J:\GIS\Custom Maps\Distribution\Undergrounding Projects\Five Year Plan 2026-2030\A-24 Westpark Subdivision.mxd

TITLE 21 PROJECT ELMORE & TUDOR-4/0 ACSR



PROJECT NUMBER: TBD

PROJECT COST: \$500,000



1:400,000

VICINITY MAP



PROJECT DESCRIPTION:

This project will underground approx. 0.75 miles of 4/0 ACSR 3-phase overhead to support feeder load growth on Dowling Substation feeder 512 and contingency support of Boniface Substation feeder 512.

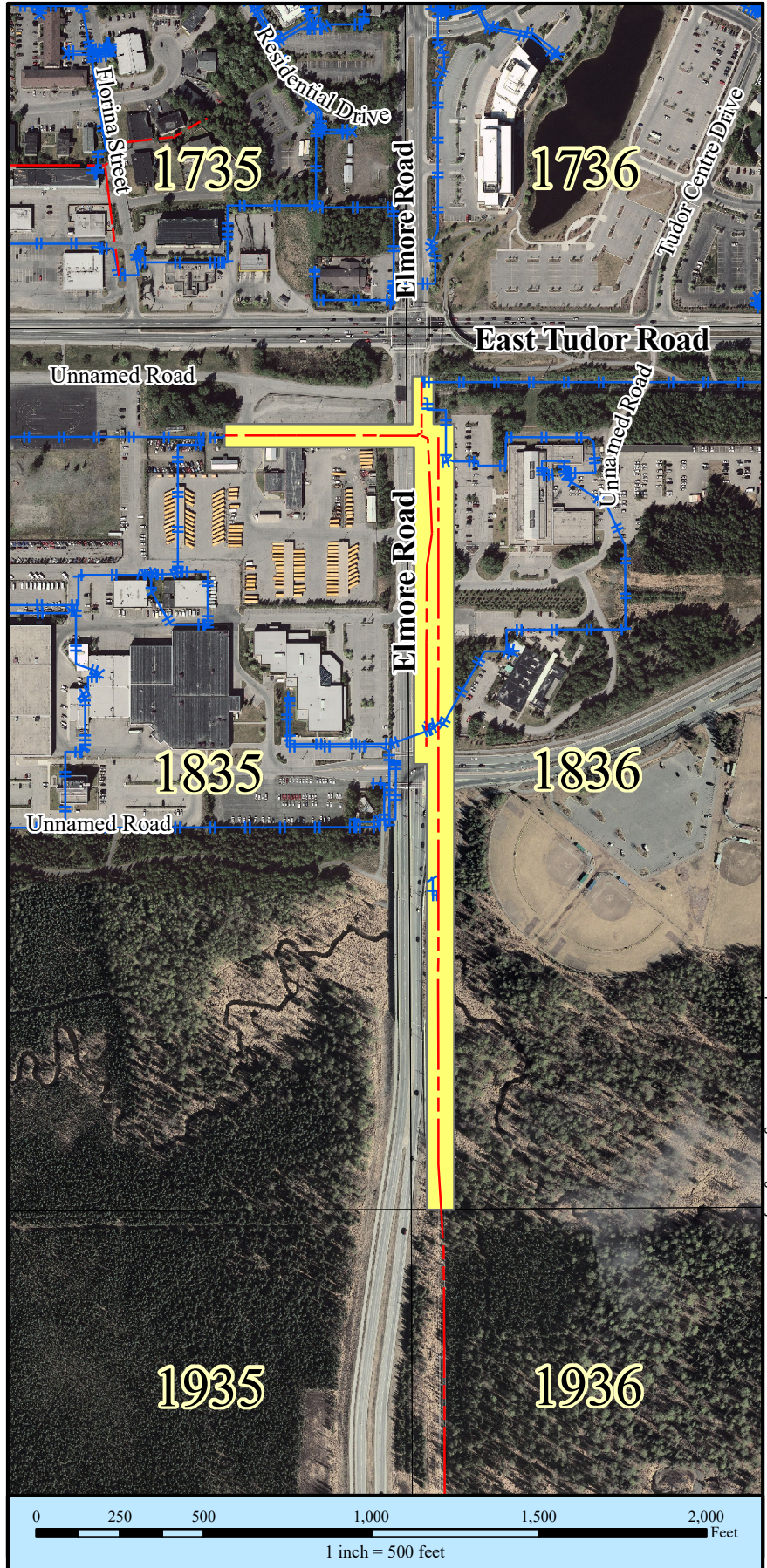
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LEGEND

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- Project Area



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TITLE 21 PROJECT NORTHERN LIGHTS Lake Otis to Arctic

PROJECT NUMBER: E2614415

PROJECT COST: \$5,000,000



PROJECT DESCRIPTION:

This project will remove approximately two miles of aged 1/0 and 4/0 ACSR and install new underground 750 kcmil 3-phase cable along Northern Lights Boulevard, between Lake Otis Parkway and Arctic Boulevard. This will create a backbone along Northern Lights to improve feeder contingency capacity, and improves the ties between Substation 8, Substation 22, and Substation 16. This project will also improve reliability through reconfiguring nearby circuits for better sectionalizing, improving equipment accessibility, and removing abandoned overhead cables.

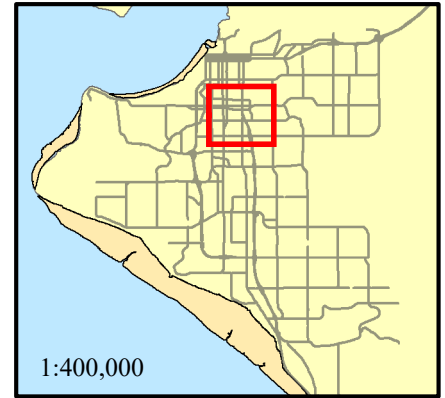
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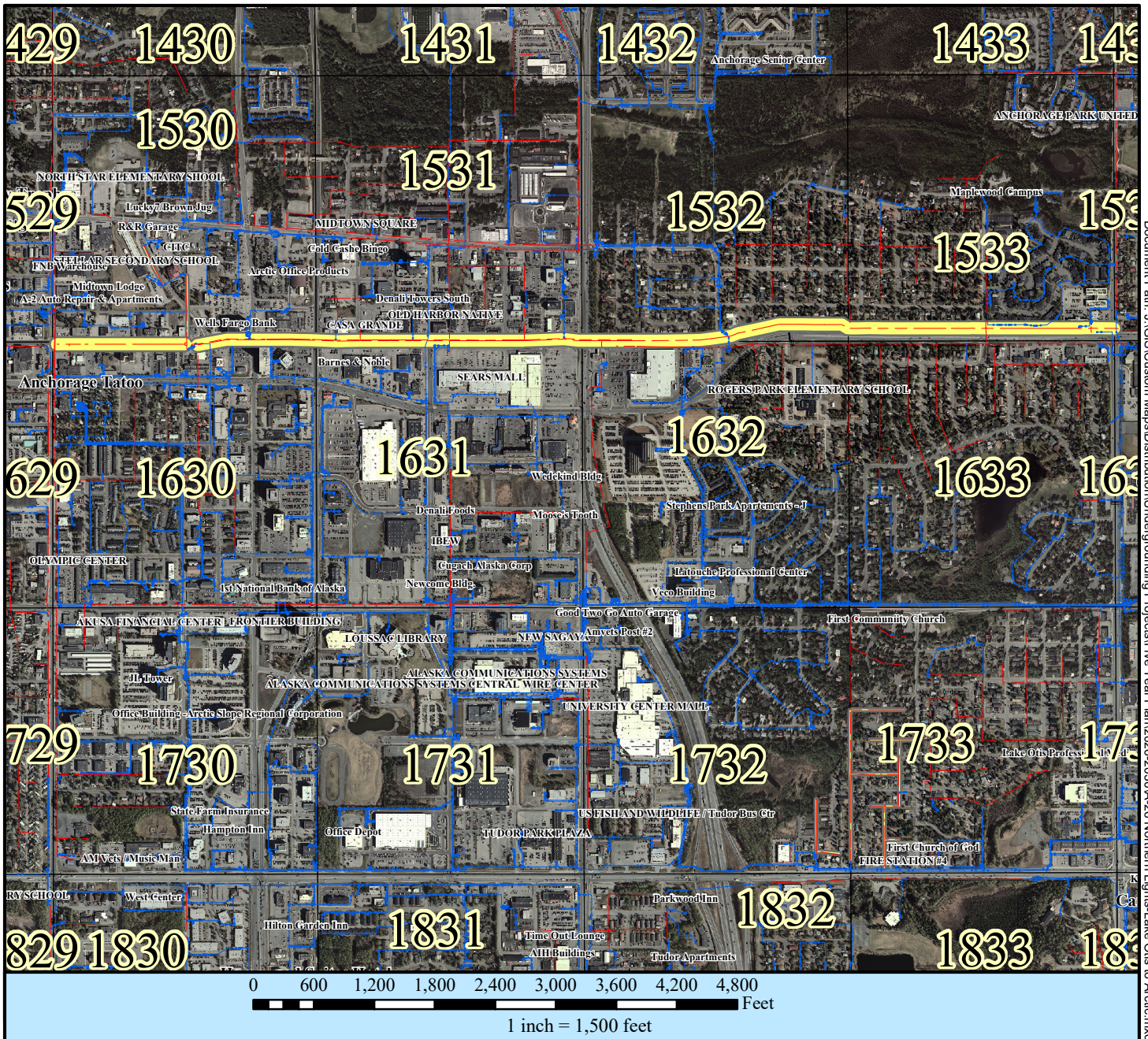
LEGEND

- Primary Overhead Conductor
- Primary Underground Conductor
- Project Area



1:400,000

VICINITY MAP



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