

NO: R148

COUNCIL DATE: July 22, 2024

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## REGULAR COUNCIL

TO: **Mayor & Council**

DATE: **July 17, 2024**

FROM: **General Manager, Engineering**

FILE: **5260-07**

SUBJECT: **Short-Term Transportation Priorities Update**

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## RECOMMENDATION

The Engineering Department recommends that Council:

1. Receive this report as information; and
2. Endorse the proposed transportation short-term priorities, as described in this report.

## INTENT

The intent of this report is to update Council on the status of the short-term transportation priorities that were approved by Council at the Regular Council Meeting on May 11, 2023, through Corporate Report No. Ro71; 2023 attached as Appendix "I", as well as to identify emerging priorities to support the City's continuous growth and development.

## BACKGROUND

Over the past two years, Council has committed to advancing significant investment in transportation projects across the City to alleviate traffic congestion, support the growth within the City and provide residents with more transportation choices, such as improved access to transit.

These transportation investments can be achieved as a result of Council's approval of a 1% increase for the Road and Safety Levy, which was supported by Council each year over the past two years. Funding collected from the Road and Safety Levy is combined with Development Contribution Charges ("DCCs") to fund transportation investments, such as arterial road widenings, intersection improvements, road safety projects, pavement rehabilitation, and new cycling and sidewalk facilities.

Over the last year, the Engineering Department has effectively and successfully advanced over \$77 million in transportation capital investments across the City, which is one of the largest annual capital program in the past five years.

## DISCUSSION

In 2023, Council confirmed the top transportation priorities across the City, including major arterial improvements, cycling connections, transit, and regional projects to work with the Ministry of Transportation and Infrastructure ("MoTI").

## Major Arterial Improvements

The previously established short-term arterial road widening projects focused on delivering tender and construction of six key projects in 2024. The status of these projects, and the other short-term arterial road projects, is summarized in Appendix “II”.

Engineering has delivered on five of the top six projects for 2024, which includes continued construction of 152 Street, as well as advanced construction of 148 Street improvements and the widening of 32 Avenue (Campbell Heights), 64 Avenue (Cloverdale) and 80 Avenue (Newton). Detailed design of 20 Avenue overpass, at Highway 99, and the associated realignment of Croydon Drive was completed; however, construction could not be advanced in 2024 as the City was unable to secure the required property.

In addition to advancing construction, staff have also advanced detailed design of multiple projects to be prepared for a 2025 construction, and fiscal schedule. The key upcoming construction projects for 2025 include trying to advance the 20 Avenue Overpass and the widening of 132 Street (Newton), 140 Street (Newton), last phase of 64 Avenue (Cloverdale), and 72 Avenue (Clayton).

In addition, staff and Council have identified emerging priorities for 2025 through 2027 construction to support the City’s continuous growth and development, such as road expansions. The emerging priorities are as follows:

1. Newton Transportation Action Plan: The Focus Newton Task Force instructed staff to identify key transportation and network projects to alleviate congestion in Newton. After a thorough technical analysis, the widening of 76 Avenue (128 Street to King George Boulevard) and 132 Street (80 Avenue to 84 Avenue) have been added to the short-term priorities, as shown in Appendix “II”, whereas the widening of 74 Avenue (King George to 138 Street) and the 80 Avenue road connection (King George to 138 Street) are future candidate projects for the long-term horizon.
2. Arterial & Collector Widening: To help improve transportation and keep up with DCC investment in growing communities, some of these emerging priorities include:
  - Completing of the last phases of 64 Avenue widening east of 152 Street;
  - Widening of 160 Street just north of Fraser Highway to interface with the Surrey-Langley SkyTrain (“SLS”) Project;
  - 140 Street bridge replacement, for state of good repair, and associated widening of two segments of 140 Street to complete four-lane arterial between 80 Avenue and 100 Avenue. This will serve as a parallel corridor to King George Boulevard; and
  - Widening of 72 Avenue in East Clayton (188 Street to the 19300 Block), as development is complete, and the last western segment in Newton (144 Street to 152 Street).
3. Campbell Heights: Development within this area has continued rapidly over the past five years. The City has significant unspent area-specific DCC reserves, in relation to remaining development activity in Campbell Heights. Staff are advancing designs in Q4 2024 and construction of an estimated \$33 million in transportation infrastructure in Campbell Heights, focused on 192 Street (16 Avenue to 28 Avenue), 32 Avenue, 24 Avenue, and 16 Avenue (184 Street to 193 Street).

## **Cycling Connections**

Staff are continuing the leverage internal and external funding contribution to deliver a connected and complete network for active transportation, these priority cycling connections are illustrated on the map attached as Appendix “III”.

King George Boulevard Safe Mobility Project: The project is focused on enhancing walking along King George Boulevard between 105 Avenue and 108 Avenue making it safer and more welcoming by adding new letdowns, upgrading existing letdowns to current standards and improving pavement markings along the corridor. The combination of these improvements will clearly delineating pedestrian areas along the corridor.

North Surrey Protected Cycling Network: The development of a cycling network continues to evolve from City Centre. A cycling connection to Fleetwood was completed along Fraser Highway, and now the primary focus is cycling connections to Guildford. The projects are under design with construction concluding in 2025.

Pattullo Bridge Supportive Infrastructure: As part of TransLink’s bridge replacement project, staff are working on addressing cycling gaps that will connect the new bridge to the existing Scott Road Greenway.

## **Transit Priorities**

Staff continue working with TransLink to develop and deliver transit service improvements throughout the City, with key projects highlighted below.

R6 Scott Road: TransLink’s Rapid Bus service has been in operation since January 2024 and has seen a successful increase of 22% in transit users, representing to approximately 6,000 additional boardings per day, compared to the previous 319-bus route along the corridor.

Surrey/South of Fraser Area Transit Plan: Staff are working in cooperation with TransLink on an update to the Surrey Transit Vision that was last updated in 2007. The new Surrey Transit Vision will define a long-range transit network required to service a one million population horizon, informing TransLink of the investment in rapid transit and bus services that are needed for Surrey and communities South of Fraser. The study will be completed by Q4 2025.

SLS Project: The Province is delivering a 16-km, eight station extension of SkyTrain through Surrey. This is a \$4 billion investment and will have significant ridership when it opens in 2029. Early works have commenced and guideway construction is anticipated to start in late 2024.

King George Boulevard Bus Rapid Transit (“BRT”): TransLink has announced that the Tier 1 BRT Corridors, including the King George Boulevard BRT, will be part of their 2025 Investment Plan. TransLink is leading the BRT design, with support from Surrey, which includes confirming the routing, service levels, hours of operation, terminus operation, as well as the corridor concept design. This will form part of TransLink’s Investment Plan for Q2 2025 to secure funding for the construction of the project.

## Regional Projects

The Ministry of Transportation and Infrastructure (“MOTI”) manages and maintains the Provincial highway network, with strategic connections within Surrey, that are crucial to the local and regional road network. The City had identified three key connections as priorities to improve vehicle and goods movement and serve the anticipated growth.

24 Avenue/Highway 99 Interchange Ramps: This project is the City’s highest priority for Provincial funding requests/contributions from MOTI. Staff are in the planning stages with concept design developed for this interchange, and seeking commitment for funding from the Province for April 1, 2025.

72 Avenue/Highway 15 Traffic Signal: Staff are working in conjunction with MOTI to finalize a new signalized connection to Highway 15 from 72 Avenue, as part of advanced design work for the new 72 Avenue road extension.

Pattullo Bridge – Six Lanes: Surrey has consistently advocated for six travel lanes on opening day. The Province has committed to consult with Surrey, New Westminister, and the Mayors’ Council to further study the bridge and regional network performance to consider expansion to the six-lane option; however, the Province has not provided a firm timeline nor funding for this work. The project has experienced delays, resulting with the new opening date of Fall 2025.

152 Street/Highway 99 Replacement and Ramp Improvements: Staff continue to advocate for this strategic regional connection to Highway 99 in South Surrey to support population growth and manage congestion. This project is lower in priority than the above three projects.

## CONCLUSION

The City continues to make significant investment in transportation infrastructure, and this combined with the need for more Federal and Provincial investment in transit and regional connectivity, is required in the short-term to benefit residents and support growth across the City.

Scott Neuman, P.Eng.  
General Manager, Engineering

RV/KS/cc

Appendix “I” – Corporate Report No. R071; 2023  
Appendix “II” – Major Arterial Improvements  
Appendix “III” – Cycling Connections

## CORPORATE REPORT

NO: **R071**

COUNCIL DATE: **May 15, 2023**

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### REGULAR COUNCIL

TO: **Mayor & Council**

DATE: **May 11, 2023**

FROM: **General Manager, Engineering**

FILE: **5260-07**

SUBJECT: **Short-Term Transportation Priorities**

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### RECOMMENDATION

The Engineering Department recommends that Council:

1. Receive this report as information;
2. Endorse the proposed strategic Transportation short-term projects, as presented in this report;
3. Endorse staff to develop a strategy for advocating for increased transit service in Surrey; and
4. Direct staff to assess the feasibility, costs, benefits, and impacts of extending 72 Avenue between 152 Street and Highway 15.

### INTENT

The intent of this report is to obtain Council endorsement of the short-term transportation priorities to support the City's growth, including direction on proceeding with a feasibility study of extending 72 Avenue east of 152 Street.

### BACKGROUND

The Engineering Department's 10-Year Servicing Plan (2023-2032) was approved by Council at the Regular Council Meeting on March 6, 2023 through Corporate Report No. R031; 2023. The plan identifies the infrastructure investments required to support the City's anticipated population growth over the next ten years. At the March 6, 2023 Council Meeting, questions were raised by Council as to the ability to prioritize particular transportation projects in the short-term and the feasibility of extending 72 Avenue east of 152 Street. This report highlights the City's strategic transportation priorities and capital programming over the next few years.

### DISCUSSION

Transportation's short-term capital program focuses on delivering \$300 million in transportation investments over the next four years, primarily funded through Development Cost Charges and the recently approved increase in Road and Traffic Levy. City funds are complemented by

financial support from TransLink for major road, bike and transit networks, and the Ministry of Transportation and Infrastructure for Highway 99 interchange improvements.

The following summarizes the recommended direction for key areas of investment:

1. Developing the arterial network to improve traffic movement, safety and integrated cycling-walking facilities where possible. The priority arterials are 20 Avenue, 32 Avenue, 72 Avenue, 80 Avenue, 132 Street, and 152 Street, as outlined in Appendix "I";
2. Prioritizing protected cycling around SkyTrain stations and connecting City Centre to Guildford and Fleetwood, as outlined in Appendix "II";
3. Working with TransLink and the Province to implement improved transit services essential for sustaining Surrey's continuous growth, focusing on the Surrey-Langley SkyTrain Project, Bus Rapid Transit to Newton, and RapidBus on Scott Road, as outlined in Appendix "III"; and
4. Advocating for strategic regional connections to Highway 99 in South Surrey, as outlined in Appendix "IV", to support population growth and manage congestion.

### **72 Avenue between 152 Street and Highway 15 (176 Street)**

Over the past year, staff have received inquiries from both the public and Council regarding the need for additional east-west connectivity across the City, particularly the feasibility of connecting 72 Avenue. Two segments of 72 Avenue, 144 Street to 152 Street and Fraser Highway to 188 Street, are planned to be widened as part of the approved 10-Year Servicing Plan.

The central segment, between 152 Street and Highway 15, is not within the City's 10-Year Servicing Plan. Along this 5 km segment, a 20m wide unopen road allowance exists through the Agricultural Land Reserve; however, a road through this area would require lengthy preloading, raising above the floodplain, and a bridge across Serpentine River. The estimated cost for this road segment is \$75 to \$95 million.

If Council desires, staff could commence a feasibility study of the costs, benefits, impacts, permit requirements, and project timeline for extending 72 Avenue east of 152 Street. This study would be completed by Q1 2024 and presented to Council.

### **CONCLUSION**

Council's approval of the proposed transportation short-term capital priorities will benefit residents and support growth across the City.



Scott Neuman, P.Eng.  
General Manager, Engineering

RV/KS/AM/PK/BH/cc

**Appendices available upon request.**

Appendix "I" – Major Arterial Improvements

Appendix "II" – Cycling Connections

Appendix "III" – Rapid Transit

Appendix "IV" – Regional Projects

Major Arterial Improvements

The proposed implementation strategy for each corridor identifies the status of the respective capital projects, the expected delivery year, and the anticipated total cost (\$M).

The Engineering Department is committed to developing 12 key corridors over the next five years, along with the proposed additions listed in the table below. The immediate corridor priorities include 152 Street, 72 Avenue, 148 Street, 80 Avenue, 64 Avenue, and 32 Avenue.

Corridor	Project Location	Est. Cost (\$M)	2024	2025	2026	2027	2028	Design Status	Construct Status	Comments
<b>Prior-Year Established Priorities</b>										
1	152 Street	40 Avenue to 5000 Block	\$ 54.10					●	●	Under construction
2	72 Avenue	New connection: Fraser Highway to 180 Street	\$ 2.00					●	●	Under construction
3	148 Street	58 Avenue to 64 Avenue	\$ 7.60					●	●	Under construction
4	80 Avenue	132 Street to King George Boulevard	\$ 9.30					●	●	Under construction
5	20 Avenue	Hwy 99 Overpass & Croydon Drive	\$ 24.90					●	○	Design complete. Construction delayed / behind schedule due to property
6	64 Avenue	177 Street to 184 Street	\$ 22.00					●	●	Under construction
7	16 Avenue	Hwy 99 to 170 St, including 168 Street (15A to 17A Ave)	\$ 7.50					●	○	Design initiated Q2 2024
8	70 Avenue	King George Boulevard to 138 Street	\$ 3.30					●	○	In design
9	132 Street	72 Avenue to 80 Avenue	\$ 14.60					●	○	In design
10	72 Avenue	144 Street to 152 Street	\$ 13.90					○	○	Design to commence Q3 2024
11	72 Avenue	152 Street to Highway 15	\$ 138.00		preload 2025 - 2027			●	○	Design initiated Q2 2024
12	32 Avenue	176 Street to 184 Street	\$ 10.00					●	○	Design nearing completion but property negotiation ongoing.
13	32 Avenue	184 Street to 188 Street	\$ 8.50					●	●	Under construction
14	84 Avenue	124 Street to 128 Street	\$ 13.20					●	○	In design, BC Hydro, Rail and Property negotiation ongoing
15	Crescent Rd	Roundabout at Crescent Road / 128 Street	\$ 2.60					●	○	In design and property negotiation ongoing
<b>New Priorities for 2025 Construction</b>										
16	140 Street	88 Avenue to 92 Avenue	\$ 7.80					●	○	Design completed. Tender scheduled for Q3 2024
17	140 Street	80B Ave to 8200 Block, including bridge replacement	\$ 4.00					●	○	Design completed. Tender scheduled for Q4 2024
18	64 Avenue	152 Street to 16000 blk	\$ 4.00					●	○	Design completed. Tender scheduled for Q3 2024
19	72 Avenue	188 Street to 193 Street	\$ 9.50					●	○	Design completed. Tender scheduled for Q4 2024
20	192 Street	16 Avenue to 28 Avenue	\$ 14.20					○	○	Design to commence Q3 2024, and tender by Q1 2025
21	24 Avenue	188 Street to 192 Street	\$ 5.70					○	○	Design to commence Q3 2024, and tender by Q1 2025
22	32 Avenue	192 Street to 19400 Block	\$ 3.50					○	○	Design to commence Q3 2024, and tender by Q1 2025
23	160 Street	8500 Block to 88 Avenue	\$ 4.20					●	○	Design started but may be deferred due to conflict with SLS timelines
24	96 Avenue	116 Street to 120 Street	\$ 4.00					●	○	In design
<b>New Priorities for 2026 - 2027 Construction (subject to funding after above priorities have been tendered)</b>										
25	16 Avenue	184 Street to 19300 Block	\$ 12.00					●	○	Design initiated Q2 2024, integrated with development
26	132 Street	80 Avenue to 84 Avenue	\$ 6.50					○	○	Design to commence Q4 2024
27	168 Street	76 Avenue to Fraser Highway (Feasibility)	tbd					○	○	Design to commence Q2 2025
28	76 Avenue	128 Street to King George	\$ 18.00					○	○	Design to commence Q2 2025
29	160 Street	88 Avenue to 96 Avenue	\$ 14.40					○	○	Project scoping underway for design assignment
30	104 Avenue	164 Street to 168 Street (primarily sidewalk and cycling)	\$ 7.10					○	○	Design to commence Q3 2025

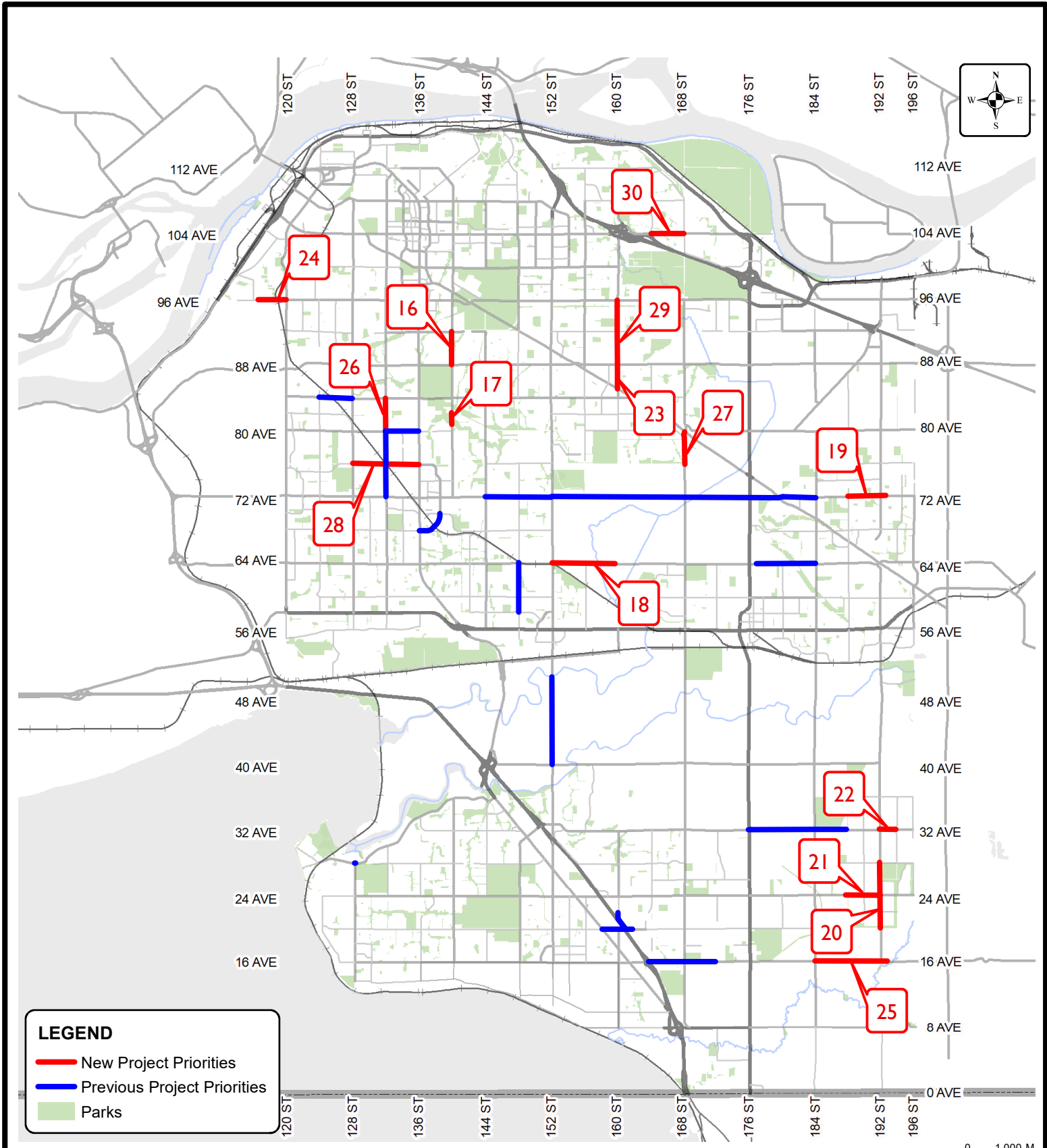
Design

Build

○ Not Started

● Underway

● Completed



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Scale: 1:125,000 0 1,000 M

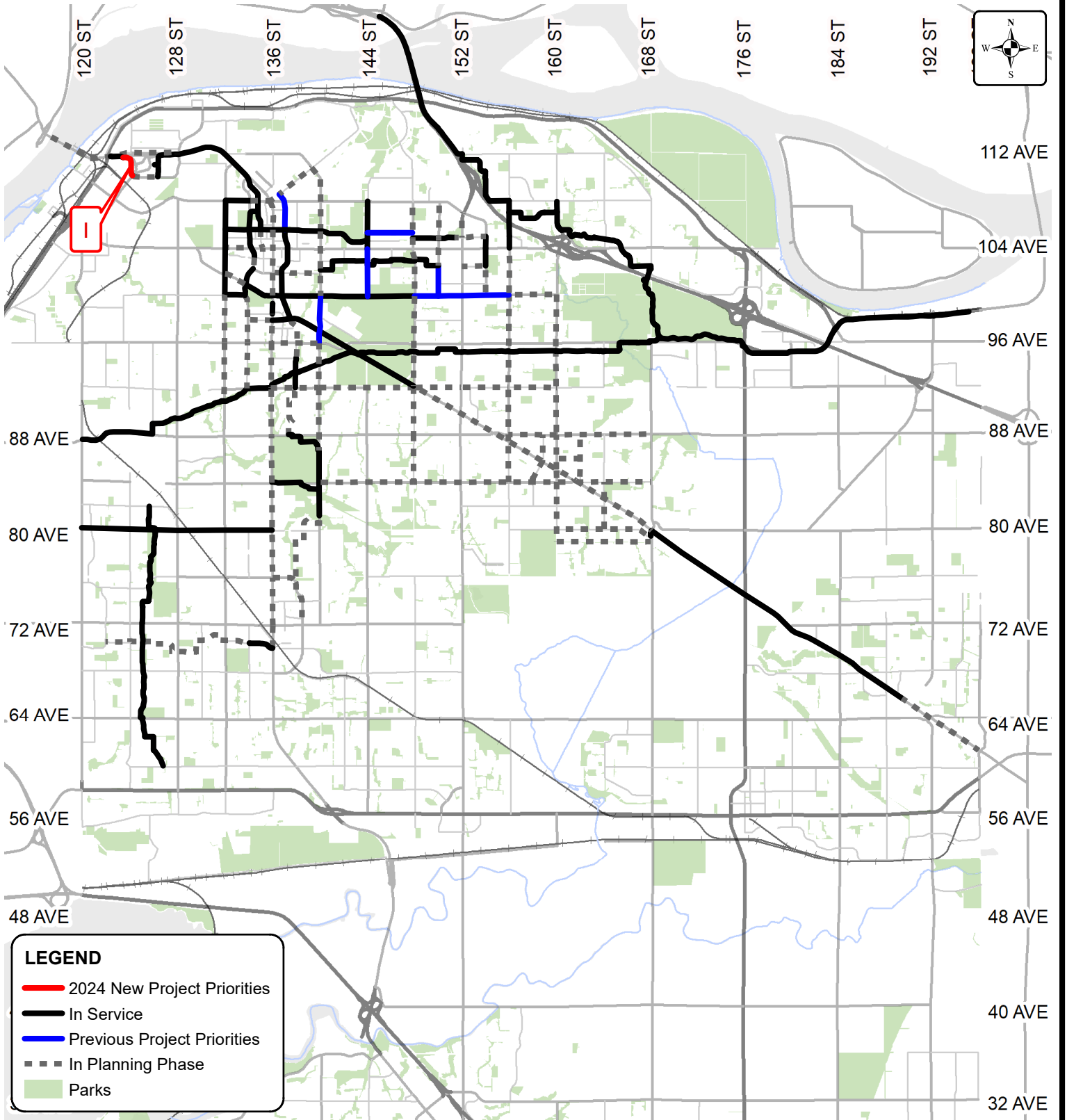


# Major Arterial Improvements

ENGINEERING DEPARTMENT

The data provided is compiled from various sources and IS NOT warranted as to its accuracy or sufficiency by the City of Surrey. This information is provided for information and convenience purposes only. Lot sizes, Legal descriptions and encumbrances must be confirmed at the Land Title Office.





**LEGEND**

- 2024 New Project Priorities
- In Service
- Previous Project Priorities
- - - In Planning Phase
- Parks

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Scale: 1:90,000



## Cycling Connections

ENGINEERING DEPARTMENT

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