THIRD AND PARK

JURISDICTION: CITY OF MUKILTEO, WA LOCATION: THIRD STREET, WEST OF PARK AVENUE

Prepared for:

Dykeman Architecture + Design

1716 W Marine View Drive

Everett, WA 98201

Prepared by:



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TRAFFIC IMPACT ANALYSIS

FOR

THIRD AND PARK

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1. DEVELOPMENT IDENTIFICATION

Kimley-Horn and Associates, Inc. has been retained to analyze the traffic impacts of the proposed Third and Park development.

The Third and Park development is proposed to consist of a 14-unit multifamily (low-rise) complex with two commercial spaces having a total floor area of 1,700 square feet (SF). The site is located in the City of Mukilteo and is currently listed as undeveloped per the *Snohomish County Online Property Information (SCOPI)* web map. The development is located in the City of Mukilteo within Snohomish County Transportation Service Area (TSA) D. The development is proposed to have one access drive connecting to the alley running between Third Street and Second Street. A site vicinity map is included in **Figure 1**. A site plan has been provided in Error! Reference source not found.

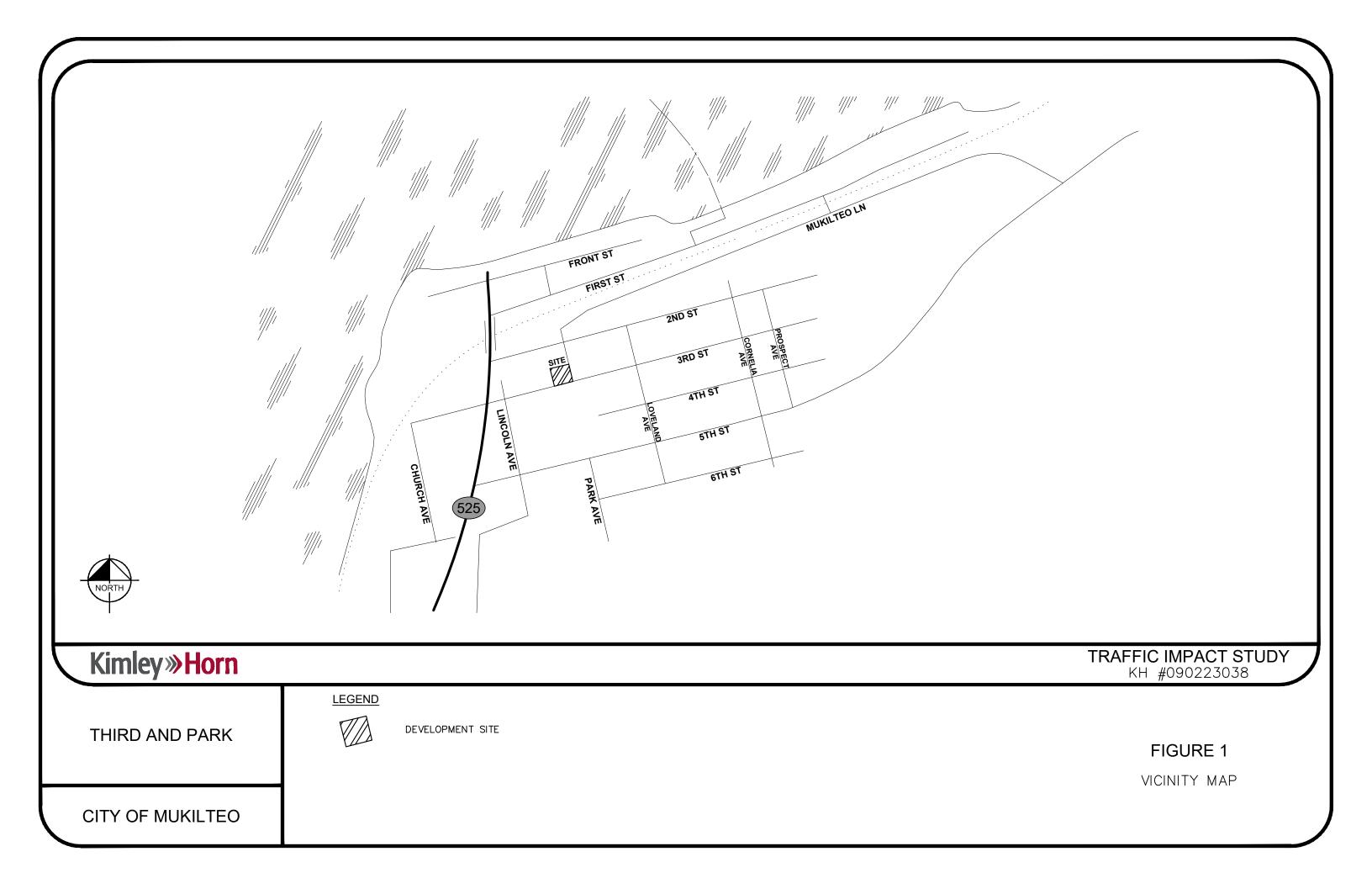
Matthew Palmer, responsible for this report and traffic analysis, is a licensed professional engineer (Civil) in the State of Washington and member of the Washington State section of Institute of Transportation Engineers (ITE).

2. METHODOLOGY

2.1 General

Trip generation calculations for the Third and Park development have been performed according to data contained in the ITE *Trip Generation Manual*, 11th Edition (2021). The distribution of trips generated by the site is based on a previously approved trip distribution.

The City of Mukilteo requires arterial-arterial intersections impacted with 10 or more PM peak-hour trips to be analyzed. Additionally, the City of Mukilteo has interlocal agreements with Snohomish County and WSDOT for the purposes of traffic mitigation fees and impacts.





2.2 Trip Generation

Trip generation calculations for the Third and Park development are based on national statistics contained in the ITE *Trip Generation Manual, 11th Edition (2021).* The average trip generation rates for ITE Land Use Code 220, Multifamily Housing (Low-Rise), and ITE Land Use Code 822, Shopping Center (<40k), were used for the trip generation calculations. A pass-by rate was utilized for the Shopping Center (<40k) use. The pass-by rate accounts for existing vehicles on the roadway that will use the site. A pass-by rate of 40% for the Shopping Center (<40k) has been utilized. The trip generation calculations are summarized in **Table 1**.

| Londillo | 0: | Average | AM F | Peak-Hour Trip | s | PM F | eak-Hour Trip | s |
|--|----------|----------------|---------|----------------|-------|---------|---------------|-------|
| Land Use | Size | Daily Trips | Inbound | Outbound | Total | Inbound | Outbound | Total |
| ITE LUC 220, Multifamily Housing (Low-Rise) | 14 Units | 94.36 | 1.34 | 4.26 | 5.60 | 4.50 | 2.64 | 7.14 |
| ITE LUC 822, Shopping Center (<40k) | 1,700 SF | 55.57 | 1.21 | 0.80 | 2.01 | 3.60 | 3.60 | 7.20 |
| TOTAL | | 149.93 | 2.55 | 5.06 | 7.61 | 8.10 | 6.24 | 14.34 |

Table 1: Trip Generation Summary

The Third and Park development is anticipated to generate approximately 150 new average daily trips (ADT) with 8 new AM peak-hour trips and 14 new PM peak-hour trips after pass-by reduction rates have been applied. The trip generation calculations are provided in Error! Reference source not found.

3. TRIP DISTRIBUTION

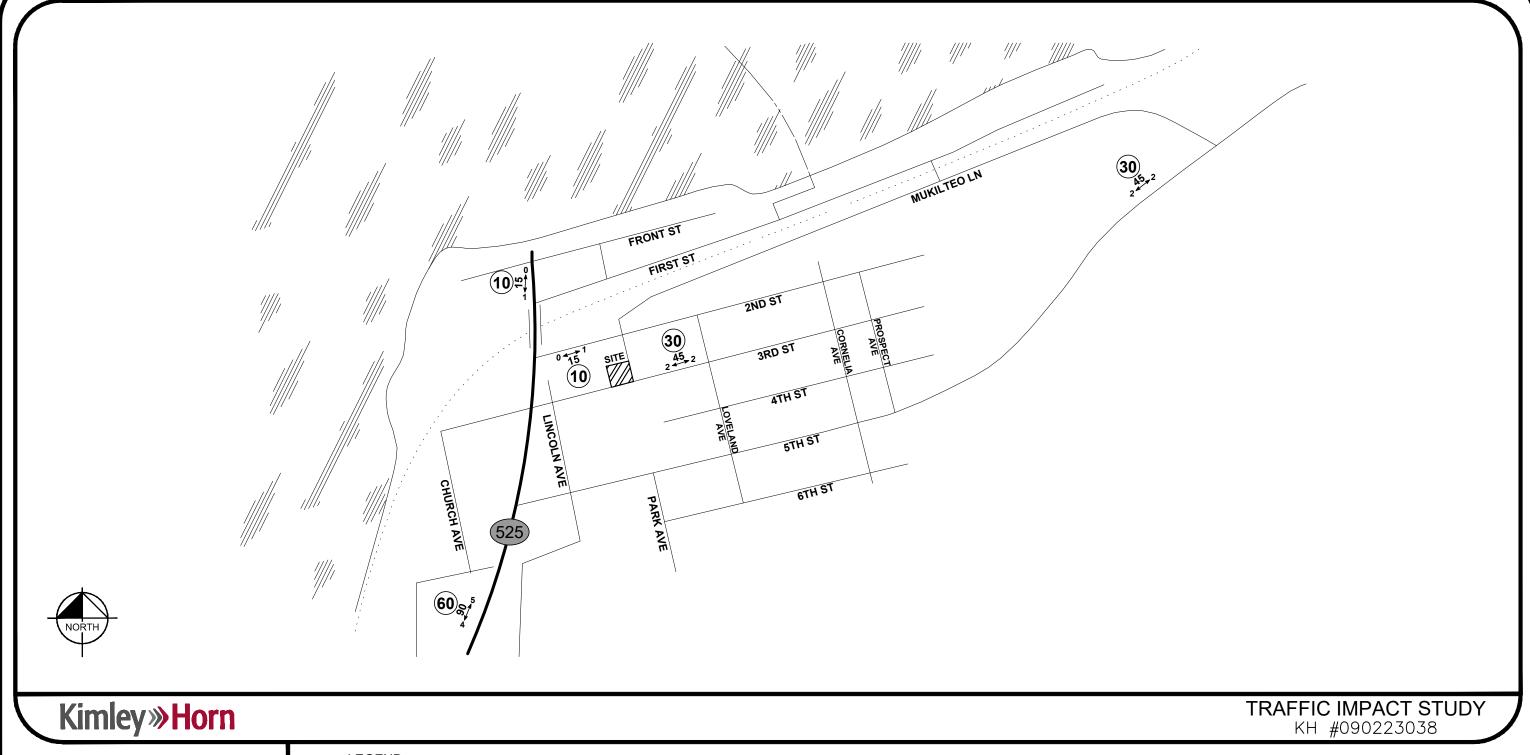
The Third and Park development will have access to the alley between Third Street and Second Street.

- It is estimated that 60% of the site traffic will travel to and from the south along Mukilteo Speedway (SR-525)
- An additional 30% will travel to and from the east on Fifth Street
- The remaining 10% of the site traffic will travel to and from the north along First Street to Second Street

The anticipated trips by the development during PM peak-hours are shown in Error! Reference source not found

The Transportation Concurrency Evaluation and Determination of Transportation Impact Fees worksheet describes an "impacted transportation facility" as "any transportation facility which is impacted by ten or more peak hour project trips in one direction." There are no intersections that will be impacted by 10 PM peak-hour trips generated by the Third and Park development. Intersection analysis should therefore not be required for the Third and Park development.

The City and County have an interlocal agreement that requires any Snohomish County Key Intersections impacted with three or more directional peak-hour trips to be identified. An impact of three directional PM peak-hour trips equates to approximately 37% of the trips generated by the Third and Park development. The nearest County Key Intersection is along Airport Road south of Boeing Freeway (SR-526). It is anticipated that less than 20% of the trips generated by the development will travel to and from the south along Airport Road south of Boeing Freeway (SR-526). County Key Intersections and roadways are therefore not anticipated to be impacted with three or more directional peak-hour trips.



THIRD AND PARK

<u>LEGEND</u>

AWDT NEW DAILY TRAFFIC NEW PEAK—HOUR TRIPS



TRIP DISTRIBUTION %

CITY OF MUKILTEO

FIGURE 2

DEVELOPMENT TRIP DISTRIBUTION PM PEAK-HOUR



4. COLLISION HISTORY

Collision analysis was performed along the site frontage and the proposed site access. Collision data was obtained from WSDOT for the period from January 1, 2017, through December 31, 2021. There were no collisions reported along the frontage or site access during this period. The collision map is provided in **Appendix C**.

5. TRAFFIC MITIGATION FEES

The Washington Growth Management Act and Revised Code of Washington 82.02.050(2) authorize local jurisdictions to establish proportionate share transportation impact fees in order to fund capital facilities, such as roads and intersections. Mukilteo Municipal Code (MMC) 3.107 applies that authority to developments in order to fund road improvements that would accommodate development. The City also has interlocal agreements with the County and WSDOT for transportation impact fees. These transportation impact fees are based on the area wide traffic mitigation fee or actual impacts to improvement projects.

5.1 City of Mukilteo

The City states transportation impact fees are \$1,875 per PM peak-hour trip. The Third and Park development is anticipated to generate 14.34 new PM peak-hour trips and the City transportation impact fees will therefore be \$26,887.50. The City Transportation Concurrency Evaluation and Determination of Transportation Impact Fees worksheet has been provided in **Appendix D**.

5.2 Snohomish County

The County intersections and roadways are not anticipated to be impacted with 3 or more directional peakhour trips generated by the Third and Park development. The County transportation impact fees should therefore not be required for the Third and Park development based on Section 3 of the *Snohomish County Traffic Worksheet and Traffic Study Requirements For Development in the City of Mukilteo.*

5.3 Washington State Department of Transportation

The WSDOT mitigation fees are based on impacts to the intersection of SR-525 at 88th Street SW, as identified in the City Transportation Concurrency Evaluation and Determination of Transportation Impact Fees worksheet. This project is currently completed. Additionally, it is anticipated that less than 20% of the trips generated by the Third and Park development will impact this intersection. This equates to less than three PM peak-hour trips. The WSDOT transportation impact fees should therefore not be required for the Third and Park development.

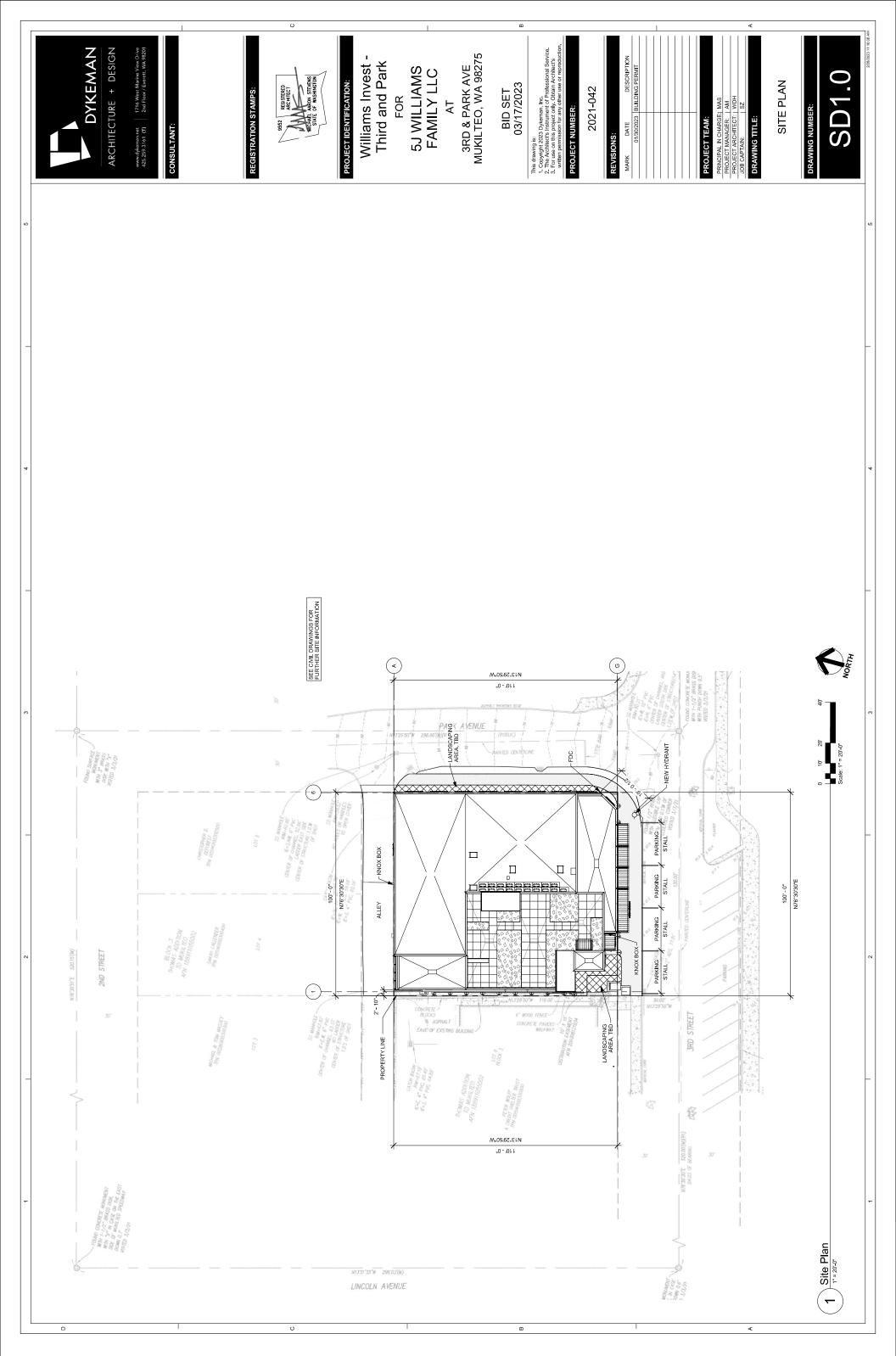
6. CONCLUSIONS

The Third and Park development is proposing to construct a 14-unit multifamily (low-rise) complex with two commercial spaces equal to 1,700 total SF of retail space. The development will generate approximately 150 new average daily trips with approximately 8 new AM peak-hour trips and approximately 14 new PM peak-hour trips. The Third and Park development is anticipated to result in less than three directional PM peak-hour trips to Snohomish County or WSDOT intersections or roadways. Snohomish County and WSDOT transportation impact fees should therefore not be required for the Third and Park development. The development should only have to pay standard traffic mitigation fees to the City of Mukilteo, which will total \$26,887.50.



APPENDIX A

SITE PLAN





APPENDIX B TRIP GENERATION CALCULATIONS

Third and Park KH #090223038

Trip Generation for: Weekday (a.k.a.): Average Weekday Daily Trips (AWDT)

| | | | | | | | | | | NEI EXIEMME IIM O DI III E | | | | | | |
|---------------|---------------------------------------|--------|---------------------------|------|---------|-------|------------------------|---|--|--|--|--|--|--|--|--|
| ĺ | | | | | | INB | IN BOTH DIRECTIONS | RECTION | SI | | ۵ | IRECTION | ONAL | DIRECTIONAL ASSIGNMENTS | MENT | S |
| | Gross Trins | | Internal | | TOTAL | DAGG | l va | IVERTE | PASS-BY DIVERTED INK NEW | MEW | VA.22AG | | DIVERTED | TED | MEM | |
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| | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | | Gross | | 10 to E | Ext. | 1 C + C + | | 10 C | 10 - E | 드 | Ont | _ | | 드 | Ont |
| code rate III | 5 | | Trips | | (Total) | Trips | otal) | | | (Total) | | | | | | |
| 220 6.74 50% | %09 | 94.36 | %0 | 0.00 | 94.36 | | 0.00 | %0 | 0.00 | 94.36 | 0.00 | 0.00 | 00.0 | | 17.18 | 47.18 |
| 822 54.45 50% | %09 % | • | %0 | 0.00 | 92.57 | 40% | 37.00 | %0 | 0.00 | 55.57 | 19.00 | 18.00 C | 00.0 | | | 27.78 |
| | | 186.93 | | 0.00 | 186.93 | | 37.00 | | 0.00 | 149.93 | 19.00 | 18.00 C | 00.0 | 7.00.C | 74.97 | 74.96 |
| | % 50% % 50% % 50% | | % of Gross Trips 0% 0% 0% | | | | % of Ext. Trips 0% 40% | % of In+Out Ext. (Total) Trips 0.00 40% 37.00 | % of In+Out Ext. Trips (Total) Trips 0% 0.00 0% 40% 37.00 0% | % of Ext. In+Out Ext. % of In+Out Ext. In+Out In+Out Ext. Trips (Total) Trips 0.00 | % of Ext. In+Out Ext. % of In+Out Ext. In+Out In+Out Ext. Trips (Total) Trips 0.00 | % of Ext. In+Out Ext. % of In+Out Ext. In+Out In+Out Ext. Trips Trips 0.00 0.00 40% 37.00 0% 0.00 37.00 0.00 0.00 0.00 | % of Ext. In+Out Ext. % of In+Out Ext. In+Out In+Out Ext. Trips Trips 0.00 0.00 40% 37.00 0% 0.00 37.00 0.00 0.00 0.00 | % of Ext. In+Out Ext. % of In+Out Ext. In+Out In+Out Ext. Trips Trips 0.00 0.00 40% 37.00 0% 0.00 37.00 0.00 0.00 0.00 | % of Ext. In+Out Ext. % of In+Out Ext. In+Out In+Out Ext. Trips Trips 0.00 0.00 40% 37.00 0% 0.00 37.00 0.00 0.00 0.00 | % of Labout Lips In+Out Lips In+Out Lips In+Out Lips In+Out Lips In+Out Lips In+Out Lips In-Out Lips |

Third and Park KH #090223038

Trip Generation for: Weekday, Peak Hour of Adjacent Street Traffic, One Hour between 7 and 9 AM (a.k.a.): Weekday AM Peak Hour

| | | | | | | | | | | | | NE | NET EXTERNAL TRIPS BY TYPE | IAL TRIP | SBYT | YPE | | | | |
|---------------------------------------|------------|----------|------|------|-------------|---------|---------------|-----------------|---------|-------------|---------------------------------------|-------------|-----------------------------------|--------------------------|------------|--------|------------|--------------------------------|---------------|---------|
| | | 4 | | | | | | | | N | IN BOTH DIRECTIONS | RECTIC | NS | | O | IRECTI | ONAL | DIRECTIONAL ASSIGNMENTS | IMENTS | <u></u> |
| | | | | 2002 | Tripo | | Internal | | IVIOI | 940 | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | DIVEDT | PASS BY DIVEBTED LINK NEW | _ | Va 22.60 | | DIVERTED | TED | NEW | |
| | | | | 3600 | GIUSS IIIDS | | Crossover | | 101AL | 7 7 | 19-5 | DIVER | ED LINE | | 7430 | Ģ | LINK | Y | NEV | |
| AND USES | VARIABLE | <u> </u> | Trip | | % | In+Out | % of Gross | Trips In+Out | In+Out | % of Ext | In+Out | % of Ext | In+Out In+Out | In+Out | 2 | Out | In Out | | <u>u</u> | Out |
| | | code | Rate | | IN OUT | (Total) | Trips | (Total) | (Total) | Trips | (Total) | Trips | (Total) | (Total) | | | : | | | ; |
| Aultifamily Housing (Low-Rise) | 14 units | 220 | 0.40 | 24% | %92 | 5.60 | %0 | 0.00 | 5.60 | %0 | 0.00 | %0 | 00.00 | 2.60 | 0.00 00.00 | | 0.00 00.00 | | 1.34 | 4.26 |
| Shopping Center (<40k) | 1.700 K SF | 822 | 2.36 | %09 | 40% | 4.01 | %0 | 0.00 | 4.01 | 40% | 2.00 | %0 | 0.00 | 2.01 | 1.00 1.00 | 1.00 | 0.00 0.00 | | 1.21 | 0.80 |
| Totals | | | | | | 9.61 | | 0.00 | 9.61 | | 2.00 | | 0.00 | 7.61 1.00 1.00 0.00 0.00 | 1.00 | 1.00 | 00°C | 00.0 | 2.55 | 90'9 |

Third and Park KH #090223038

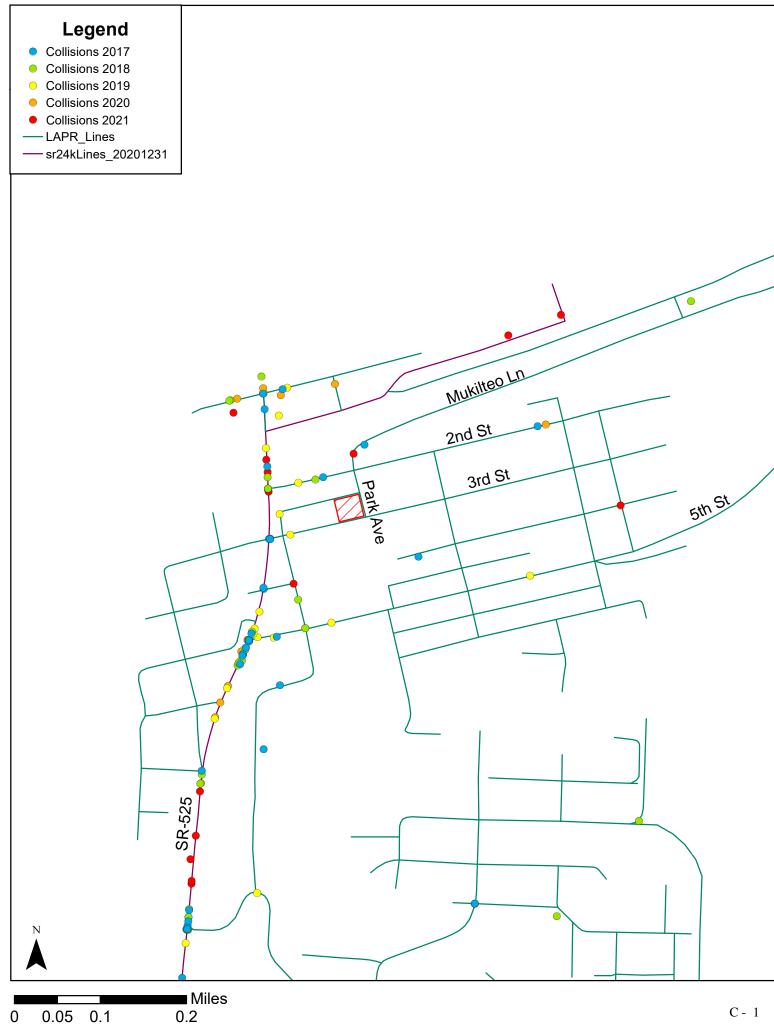
Trip Generation for: Weekday, Peak Hour of Adjacent Street Traffic, One Hour between 4 and 6 PM (a.k.a.): Weekday PM Peak Hour

| | | | | | | | | | NE | EAIER | NEI EXIERNAL IRIPS BY IYPE | SBYI | PE | | | | |
|---------------------|------------------------------|---------|------------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|---|
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| | 0.0 | T . | | Intel | rnal | | | 70 0 | ביבם שלעות | 7141 | W | 0000 | | JIVERT | ED | ALE IA | |
| | Gros | sdill s | | Cross | sover | | | 10-0 | DIVERIL | LINE | | LASS | Ģ | LINK | | NEW | |
| ITE Trip | 7/0 | 70 | \$1.0 1.0 | % of | Trips | *::O+: | % of | #1.0±a | % of | *::C+: | #10 F | | | | | | |
| - 6 | | | 100 | Gross | In+Ont | 10-10-E | Ext. | 100-E | Ext. | 100 E | | <u>۔</u> د | Out | 드 | | | ¥ |
| code Rate | | _ | (Total) | Trips | (Total) | (Total) | Trips | (Total) | Trips | (Total) | (Total) | | | | | | |
| 220 0.51 | %89 | %28 | 7.14 | %0 | 0.00 | 7.14 | %0 | 0.00 | %0 | 0.00 | 7.14 | 0.00 | 00.0 | 00.0 | | 50 2. | 4 |
| 1.700 K SF 822 6.59 | 20% | %09 | 11.20 | %0 | 0.00 | 11.20 | 40% | 4.00 | %0 | 0.00 | 7.20 | 2.00 | 2.00 C | 0.00 | .00 | | 0 |
| | | | 18.34 | | 0.00 | 18.34 | | 4.00 | | 0.00 | 14.34 | 2.00 | 2.00 | 0.00 0 | .00 | .9 0. | 4 |
| | Trip Rate 0.51 6.59 | | Gross 8 % 1 IN 63% 50% | Gross Trips % % % In+Out 63% 37% 7.14 50% 50% 11.20 18.34 | Gross Trips Cross Cross Cross Cross Cross Cross Cross Cross Cross (% % In+Out Gross (% % 37% 7.14 0% 50% 11.20 0% 11.20 0% | Gross Trips Internal Crossover % % In+Out Gross In-Out Gross In+Out Gross In+Out Gross In+Out Gross In+Out Gross In-Out Gross In+Out Gross In-Out Gross In+Out Gross In-Out Gross In+Out Gross In-Out Gross In- | Gross Trips Internal Crossover TOTAL Crossover % % % In+Out Gross In+Out Trips In+Out Trips In+Out Trips In+Out In-Out In-Ou | Gross Trips Internal Crossover TOTAL Crossover % % % In+Out Gross In+Out Trips In+Out Trips In+Out Trips In+Out In-Out In-Ou | Gross Trips Internal Crossover TOTAL Crossover % % % In+Out Gross In+Out Trips In+Out Trips In+Out Trips In+Out In-Out In-Ou | Gross Trips Internal Crossover TOTAL Crossover % % % In+Out Gross In+Out Trips In+Out Trips In+Out Trips In+Out In-Out In-Ou | Cross Trips Internal TOTAL PASS-BY DIVERTED LINK Crossover Cross | Cross Trips Internal TOTAL PASS-BY DIVERTED LINK Crossover Cross | Cross Trips Internal TOTAL PASS-BY DIVERTED LINK Crossover Cross | Cross Trips Internal TOTAL PASS-BY DIVERTED LINK Crossover Cross | Cross Trips Internal TOTAL PASS-BY DIVERTED LINK Crossover Cross | Cross Trips Internal TOTAL PASS-BY DIVERTED LINK Crossover Cross | Gross Trips Internal Gross Trips TOTAL PASS-BY PIVERTED LINK Gross In+Out Ext. New In+Out Gross In+Out Gross In+Out In+Out Ext. 7.14 0.00 7.14 0.00 7.14 0.00 7.14 0.00 7.14 0.00 7.14 0.00 7.10 0.00 7.10 0.00 7.14 0.00 7.14 0.00 7.14 0.00 7.14 0.00 7.20 2.20 |



APPENDIX C

COLLISION HISTORY





APPENDIX D CONCURRENCY EVALUATION

Transportation Concurrency Evaluation and Determination of Transportation Impact Fees

| Date of Complete App | | | | |
|---|---|---|--|-----------------------------------|
| Project Third and Park | | | | |
| Address Third Street and Park A | Avenue | | | |
| 1. Exemptions (Deemed Concurrent, | , MCC 17.15 020) | V | es No | N/A |
| A. PM peak hour trips same or le B. 10.0 or less new PM Peak hou | r trips | | | |
| C. Additions to a Single Family I | | L | | |
| D. TI with no change of use or in | crease in services | | | |
| E. Replacement Structures | | L | | |
| F. Re-roofing | | L | | |
| G. Demolitions | | L | | |
| H. Subject to Master Plan | | | | Ш |
| 2. If project meets any of the above, Exempt ☐ Yes | then deemed concurre ⊠ No | ent. | | |
| * If Yes, Stop Here, if No, respond | d to the following; | | | |
| 3. A. If more than 10 new PM P the applicant shall provide a traffic structural calculated level of service to the adoptransportation facility. The traffic structural in the current calculated level of it. The current calculated level of it. The future calculated level of incorporating traffic volumes it. Any proposed mitigation (inclusiv. Any proposed mitigation (inclusiv. The future calculated level of incorporation of proposed device) Definition: "Impacted transportation facility" incorporation of project trips in one | ady prepared by a traf- ted level of service sta dy shall, at a minimum f service of all impacted service of all impacted from the proposed dev uding calculation of in service of all impacted telopment traffic volunce | fic engineer, which andard for each im a, provide the follow ed transportation for d transportation far velopment; mpact fees); and d transportation far mes and any propo- | h shall compacted owing informations in the contract of the co | mpare the ormation: th the ation. |
| B. LOS Determination | Type | Current | 10 | S With |
| Location | Segment or Intersection | LOS | | elopment |
| No transportation facilities | | | | |
| impacted by ten or more | | | <u> </u> | |
| peak hour project trips | | _ | · · | |
| in and direction | | - | - | |

Add additional sheet if necessary. Show all "impacted transportation facilities."

4. Does any location have a LOS with development of less than:

LOS E Principal/Minor Arterial Road Segments and Intersections

LOS D Collector Arterials/Local Road Segments

(See attached map)

Yes Then development not concurrent.

Permit not to be issued without mitigation and approval of Public Works

Director.

No Then development is concurrent and code requirements are met.

b) ADT

5. Calculated ADT 149.93 Calculated Peak PM Trips 14.34

*Intersection of 88th Street SW and Hwy 525 a) Peak PM Trips

 $\frac{N/A}{N/A}$

6. Determination of Transportation Impact Fee from Traffic Study

14.34

X \$1875.00

=\$26,887.50

New PM Peak Hour Trips Fee per PM PHT

*If 5. (a) is 10 or greater, WSDOT fees apply based on 5. (b)

Project already completed
ADT @ 88th St SW/Hwy 525

X \$205.00

= 0

Fee per ADT

TOTAL FEE = 0

Engineer Stamp (required for all non-exempt projects)



| A. | Concurrency Granted | | |
|--------------|---|----------|------|
| | | Initials | |
| | Or | | |
| | Concurrency Denied | | |
| | | Initials | |
| B. C. | Fees Verified and Fee Exempt per M | | |
| City | Staff Signature | | Date |
| | *************************************** | | |
| ТОТ | TAL AMT DUE: \$ | | |
| | CAL AMT DUE: \$EAR | | |
| 5 YI | | _ | |
| 5 YI 6 YI | EAR | | |

C:Project File Concurrency Cert. File Finance Department

Map 9: Functional Class of Street Network

