List of Exhibits

- Narrative Project Description/Narrative
- Exhibit A Proposed Site Plan, Sheet C30.0
- **Exhibit B** Washington County Sheriff Service Provider Letter
- **Exhibit C** TriMet Service Provider Letter
- **Exhibit D** CWS Service Provider Letter
- **Exhibit E** West Slope Water District Service Provider Letter
- **Exhibit F** Tualatin Valley Fire and Rescue District Service Provider Letter
- **Exhibit G** THPRD Service Provider Letter
- Exhibit H Washington County HHS Service Provider
- Exhibit I Letter Traffic Impact Statement
- Exhibit J Traffic Study
- Exhibit K Traffic Management Plan
- **Exhibit L** Existing Site Plan
- **Exhibit M** Grading and Drainage Plan
- Exhibit N Storm Drain and Utility Plan
- Exhibit O Drainage Analysis Plan
- **Exhibit P** Boundary and Easement Plan
- **Exhibit Q** Landscape Planting Plan
- Exhibit R Site Construction Concept Details Plan
- Exhibit S Property Line Adjustment Map
- Exhibit T Neighborhood Meeting Materials
- Exhibit U City of Beaverton Service Provider Letter
- **Exhibit V** Elevations

13502 Hamburger Lane Baldwin Park, Ca 91706-5885 626-813-8200



The Best Enterprise Is A Free Enterprise™

June 1, 2022

Washington County Department of Land Use & Transportation 155 N. 1st Avenue, #350-13 Hillsboro, OR 97124

Re: Development Application Proposed 3,885 Square Foot In-N-Out Burger Restaurant with Drive Thru 10505 & 10565 SW Beaverton Hillsdale Highway, Beaverton, OR

To Whom It May Concern:

In-N-Out Burger is excited to be exploring the potential of a new, single-story In-N-Out Burger restaurant with drive-through service and outdoor patio seating (and associated site improvements to include new asphalt parking lot and new street frontage and interior landscaping) at the properties located at 10505 & 10565 SW Beaverton Hillsdale Highway.

The property is currently an operating Hawaiian Time BBQ drive thru restaurant and an Azteca Mexican Restaurant sit-down restaurant, which, if our project is approved, are both proposed to be closed and demolished along with the corresponding site improvements to make way for our brand new development. The total site area is approximately 2.136 acres, or approximately 93,045 square-feet. This well-sized and well-apportioned property is uniquely large as a result of the initial feedback from the first Neighborhood Meeting conducted for the project where community members raised concerns that the original site of just the Hawaiian Time BBQ property was not perceived as large enough to accommodate the demand of an In-N-Out Burger. As a result, In-N-Out Burger went back to renegotiate for the much larger site (nearly double in size) contemplated in this application and introduced this larger development in our second Neighborhood Meeting conducted in May 2021.

The existing property uses of a restaurant with drive thru service and a sit down restaurant, therefore we are not proposing a change in use for the property. We are however reducing the density of the development significantly – the existing square footage of the two users is 9,598 (3,555 and 6,043 for the Hawaiian Time and Azteca restaurants, respectively) versus our proposed new development of 3,885 square feet. The properties are currently accessed via three existing curb cuts off of SW Beaverton Hillsdale Highway and one curb cut on Laurel Avenue. We are proposing to close one driveway off of SW Beaverton Hillsdale Highway, reducing the access points to a total of two and we propose to use the Laurel Avenue driveway as an emergency access only. A locked gate with a Knox box is proposed at this access point.

This property on SW Beaverton Hillsdale Highway is east of Highway 217. The surrounding properties are all retail commercial sites with a Chick Fil A drive through restaurant immediately to our west, a neighborhood shopping center anchored by a specialty grocery store and restaurants across the street to our south, small retail users to our immediate east, and a mix of small offices and residential uses to our north on Laurel Avenue.

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Our proposed site layout is purposeful in orienting the building to maximize a pedestrian-friendly environment with our front doors facing directly onto the public right of way creating easy access for pedestrians and bicyclists alike. Our drive through lane wraps behind the building away from view of the public street and can accommodate 24 cars within the queue – the longest of any of our existing Oregon locations – in addition to ample interior parking lot driveway area to accommodate overflow drive through lines, if necessary during peak periods. Our proposed In-N-Out building construction is with a "Bone China White" stucco finish and a classic Pro-Ledge White dry-stacked stone wainscot around the entire perimeter of the building. Archways throughout the building and our drive through canopy integrate changes in plane and wall thicknesses and are further enhanced by detailed cornices at each of their columns. Tower elements at a maximum height of 23'-0" are also incorporated into the building, including at the customer entrances, to provide vertical relief and visually-pleasing focal points. Parapets for areas of flat roof are at an elevation of approximately 19'-10" which provides ample screening of the rooftop kitchen and mechanical equipment. The top of the drive-thru canopy roof is approximately 13'-7" in height. The detached, covered patio provides for ample outdoor dining for the leisure of our customers and incorporates the Pro-Ledge White stone wainscot around the base of the patio columns to match the design, look and aesthetic of the building.

The restaurant will operate 7 days a week from 10:30 AM to 1:00 AM Sunday through Thursday, and 10:30 AM to 1:30 AM Friday and Saturday. Staff will range between 10 to 15 associates per shift, 3 shifts per day. Deliveries will be made by In-N-Out owned and operated vehicles. Deliveries will only be made after the restaurant is closed to the public per strict company policy.

At this preliminary stage, I believe we have identified a proposed project that: 1. complies with Washington County's Land Use Ordinance; 2. is compatible and harmonious with the commercial retail developments that surround the site; 3. is designed with an optimal site and drive through layout that promotes walkability and encourages the majority of the traffic circulation towards the interior of our proposed site; 4. is an aesthetically-pleasing building designed with architectural enhancements that are timeless and always well-maintained with In-N-Out's reputation for meticulously clean and well-lit sites; and finally, 5. enhances a prominent area along a major corridor with a family-owned establishment that provides a delicious product that is unmatched in quality to the community, well-paying jobs, and added revenue to the County and this community. To that end, with the County's consensus and/or confirmation of these findings, we hope to pursue this project quickly and efficiently.

We submitted a narrative addressing the approval criteria on July 8, 2021. We subsequently submitted a response to your October 1, 2021 Incompleteness Determination on February 25, 2022. The attached narrative incorporates the information provided in both submissions into one complete narrative for ease of review.

If you should have any questions, concerns, or comments, please do not hesitate to contact me. Thank you.

13502 Hamburger Lane Baldwin Park, Ca 91706-5885 626-813-8200



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Respectfully,

Cassie Ruiz Development Manager 626-813-8226 caruiz@innout.com Applicable Sections of Washington County's Community Development Code, as listed in as listed in Articles III and IV, are implemented and incorporated into this project as follows:

***** 312-1, Intent and Purpose [of the OC zone].

Intent and Purpose" statement of the OC Zone is not an applicable approval standard for the Application because it is not listed as an approval criterion. Nevertheless, the Application is not contrary to the OC Zone's intent and purpose because it does not propose a use not allowed by the OC Zone.

312-2, Uses Permitted Under a Type I Procedure.

***** 312-3, Uses Permitted Under a Type II Procedure.

***** 312-4, Uses Permitted Under a Type III Procedure.

The Application does not propose a Type I, II or III use in the OC Zone. Only non-required off-street parking and a non-required driveway are located in the OC Zone, both of which are accessory uses.

***** 312-5, Prohibited Uses.

The Application does not propose any uses or structures not specifically authorized in the OC zone, including a Drive-In establishment. CDC Section 430-41, "Drive-in or Drive-up Establishments," lists the dimensional and physical standards for such uses. All of the required dimensional and physical improvements for the Drive-In use are located in the CBD Zone and not the OC Zone.

✤ 312-6, Dimensional Requirements.

• 312-6.1, Lot Area.

The portion of the Site located in the OC zone contains <u>a total of approximately</u> <u>31,247 SF</u>.

• 312-6.2, Yard Requirements.

No structures are proposed on the OC-zoned lot, so no setbacks are required.

• 312-6.3, Height.

No building is proposed in the OC Zone

• 312-6.5, Lot Dimensions.

The three lots constituting the Site are existing legal lots. The lots meet the average lot width of 85 feet. The average lot depth is 85 feet and the lot widths at the access points on the two public streets are 40 feet.

✤ 313-1, Intent and Purpose.

The Intent and Purpose statement of the CBD zone is not an approval criterion because it is not listed as an approval criterion. Nevertheless, the Application is not contrary to and meets the CBD zone's purpose and intent because it provides the community with a retail use.

***** 313-2, Uses Permitted Through a Type I Procedure.

The Application does not propose a Type I use.

***** 313-3 Uses Permitted Through Type II Procedure.

The Application proposes one Type II use: An eating and drinking establishment with a drive-in or drive-up window, subject to CDC 430-41 (CDC 313-3.6); however, the Applicant is electing to elevate this application to a Type III Procedure.

313-6.1 Minimum Lot Area. The minimum lot area shall be 8,500 square feet.

The proposed property subject to development is comprised of three tax lots, each of which exceed the 8,500 square foot minimum lot, and collectively comprise 97,701 gross square feet. AS a result, the CBD-zoned lot meets the minimum lot size of 8500 SF.

***** 313.62 Minimum Yard Requirements – 20' front yard for buildings that are 35' in height or less.

The Application provides for a twenty-foot front yard setback for the building on SW Beaverton-Hillsdale Highway. The Site Plan does not propose a building adjacent to SW Laurel Road, a second front yard setback. CDC 106-113.1.

313-6.3 Height. Maximum height =100'

The maximum height of the tallest point of our proposed building is 23', which is less than the 100-foot maximum building height.

✤ 313-6.4 Lot Dimensions. Minimum average lot width = 85'. Width at access point =40'. Minimum lot depth = 85'.

Project landscape coverage: 25.1%. The CBD-zoned lot meets the minimum average lot width and depth and the required access point width.

406-2.1 Provide Facilities for the disabled pursuant to the Uniform Building Code edition in effect at this time.

Paths of travel are provided to/from all adjoining rights of way on SW Beaverton Hillsdale Highway and Laurel Ave, as well as required accessible parking spaces.

406-2.2 Incorporate design features which reflect or complement the surrounding structural and architectural character through building style and materials.

The site layout is complimentary to the surrounding developments with the proposed additional right-of-way to match the frontage improvements that were completed by the adjacent Chick-Fil-A. Our development will extend the bicycle lane and pedestrian sidewalk along the entire frontage of

our proposed development. Building design and materials are proposed as a classic and neutral Bone China White stucco and Pro-Ledge White stone wainscot.

406-2.4 Arrange structures and use areas for compatibility with adjacent developments and surrounding land uses, using the following design and siting techniques: locate and design structures and uses not to obscure or degrade identified scenic views or vistas from adjacent properties and public thoroughfares, considering setbacks, building height, bulk and landscaping; orient major service activity areas (e.g. loading and delivery areas) of the proposed development away from existing dwellings; "street furniture" such as bus shelters, streetlights, drinking fountains, benches and mailboxes shall be similar in design and materials to the buildings of the development.

To promote walkability and current plans of increasing pedestrian and bicycle-friendly developments, our current site layout provides for our building's main customer entrance to face the SW Beaverton Hillsdale right-of-way. This is an attractive and aesthetically-pleasing elevation visible to the public without being obstructed by cars and parking lots. We have also incorporated an attractive landscaping setback to highlight this frontage area. The covered patio area and additional patio tables are similarly placed in a convenient location along the street frontage for easy access to and from the public right-of-way. Service activity areas are located within the interior of the site and well behind all landscape screenings and setbacks.

406-3.1 Where possible lay out streets and building lots for multi-family, commercial, industrial and institutional developments to allow buildings maximum solar access, using techniques such as: East-west street direction so that the principal building facades will face south; make configuration of lots to allow orientation of the front or rear of buildings within 20 degrees of true south in order to maximize potential solar access.

Our proposed building lays out in the east-west with the main customer entrance facing south.

✤ 406-3.2 Where possible, design multi-family, commercial, industrial and institutional buildings conducive to energy efficiency and conservation.

Our proposed development includes a dining area that maximizes natural daylight for purposes of lighting, includes automatic lighting equipment that adjusts to natural daylight, includes a weather-resistant exterior wall and foundation envelope, and utilizes energy-efficient equipment.

✤ 406-6.1 Mixed Solid Waste and Recyclables Storage Facilities. Non-residential buildings shall provide a minimum storage area of 10 square feet plus: 10 square feet/1,000 GFA (Retail)

Our proposed trash enclosure is approximately 450 square feet. Minimum calculation = (10 + (10*3.885)) = 48.885 square feet. Our trash enclosure will house both solid waste and recyclables in one enclosure to include a 4 cubic-yard compostable bin, 4 cubic-yard recycling bin as well as two compactor bins.

406-6.4 Location, Design and Access Standards for Storage Areas:

A. Location Standards: (1)To encourage its use, the storage area for source-separated recyclables shall be co-located with the storage area for residual mixed solid waste.(2)Indoor and outdoor storage areas shall comply with Uniform Building Code requirements.(3)Storage area space requirements can be satisfied with a single location or multiple locations, and can combine both interior and exterior locations.(4)Exterior storage areas shall be located in central and visible locations on the site to enhance security for users.(5)Exterior storage areas can be located in a

parking area, if the proposed use provides at least the minimum number of parking spaces required for the use after deducting the area used for storage.(6)The storage area shall be accessible for collection vehicles and located so that the storage area will not obstruct pedestrian or vehicle traffic movement on the site or on public or private streets adjacent to the site.(7)Exterior storage areas shall comply with the yard requirements of the primary district and the sight triangle requirements of Section 418-3.

B. Design Standards:(1)The floor area of an interior or exterior storage area required by Section 406-6 shall be excluded from the calculation of lot coverage and from the calculation of building floor area for purposes of determining minimum storage requirements.(2)The dimensions of the storage area shall accommodate containers consistent with current methods of local collection.(3)Storage containers shall meet Uniform Fire Code standards and be made and covered with waterproof materials or situated in a covered area.(4)Exterior storage areas shall meet the enclosure and screening and buffering requirements of Section 403-2.3 E (3). Gate openings which allow access to users and haulers shall be provided. Gate openings for haulers shall be a minimum of 12 feet wide and shall be capable of being secured in a closed and open position. (5)Storage area(s) and containers shall be clearly labeled to indicate the type of materials accepted.

C. Access Standards: (1) Access to storage areas can be limited for security reasons. However, the storage area shall be accessible to users at convenient times of the day, and to collection service personnel on the day and approximate time they are scheduled to provide collection service. (2)Storage areas shall be paved and designed to be easily accessible to collection trucks and equipment, considering paving, grade of storage areas and vehicle access. A minimum of 12 feet horizontal clearance and 14 feet of vertical clearance is required if the storage area is covered. (3)Storage areas shall be accessible to collection vehicles without requiring backing out onto a public or private street (includes alleys). If only a single access point is available to the storage area, adequate turning radius shall be provided to allow collection vehicles from individual dwelling units in single-family attached buildings containing five or more units on a public or private street (includes by the solid waste coordinator.

The location of the trash enclosure is identified on Sheet C30. It is an exterior storage area that is highly visible and convenient for building operations. The enclosure includes lighting and does not obstruct any pedestrian or vehicular paths of travel. Access will be available during any operating hours and will be paved. The enclosure is fully enclosed with three walls, lockable swing gates at the front for collection, and a roof. The enclosure will be of the same proposed building materials to match our building (Bone China White stucco with a Pro Ledge White dry-stacked stone wainscot) and is screened with landscaping along the rear and sides of the enclosure.

✤ 407-1.4 For new development, the minimum area required for landscaping shall be 15% of the land area.

Our development proposes 23,326 square feet proposes a landscaped area in excess of the requirement of 14,178 square feet.

 407-1.7 The following interior landscaping requirements shall apply to all parking areas for ten or more vehicles: A. Ten square feet of landscaping per parking space excluding perimeter landscaping; B. Landscaped islands shall be a minimum of 120 square feet. The proposed development includes 94 parking spaces, requiring a minimum of 940 square feet of landscaping excluding perimeter landscaping. The landscape area excluding the frontage landscape requirement is 18,492 square feet.

407-2.1 Allowable Landscaping Materials: A. Trees, shrubs, ground cover, vines, flowers, and lawns; B. Brick, bark, timber, decorative rock or other decorative materials provided that materials other than planting materials are not to exceed 25% of the total area of landscaping; and, C. Features including fountains, pools, artwork, walls, and fences.

Sheet LPP.1 is a proposed landscaping planting plan composed entirely of a mixture of groundcover, trees, shrubs and turf areas.

✤ 407-4 Landscaping Plans are required to be submitted as part of a development application, except for detached and duplex dwelling units located within the R-5, R-6 and Agricultural Districts.

Sheet LPP.1 is included with this application.

407-6.1 The landscaping located within and adjacent to access roads and parking areas shall consist of a mixture of ground covers, shrubs and trees; 407-6.2 Landscaped areas shall be located to provide shade for parking lots and to create small clusters of parking.; 407-6.3 In addition to pedestrian ways, parking areas and access roads shall be separated from the exterior wall of a structure with landscaping except where loading and access ways exist.; 407-6.4A minimum 5-foot landscape strip shall be created along any parking lot boundary, including access roads, except where the use of joint parking or a zero setback is approved.; 407-6.5 Landscape "islands" located within parking areas shall maintain a minimum width and length dimension of 5 feet (see Section 407-1.6).; 407-6.6 Entryways into parking lots shall be bordered by a minimum 5-foot-wide landscape strip.

See Sheet LPP.1.

✤ 408-2, Applicability.

CDC 408-2, "Applicability," applies to Type II and Type II developments within the UGB.

Section 408-2 deals with the applicability of the Neighborhood Circulation requirements. Subsection B (CDC 408-2.1.B) states that the neighborhood circulation requirements apply as follows:

"To all Type II and Type III development except for the uses listed below."

As a result, the subsection is specifically calling out the <u>uses</u> in which the Neighborhood Circulation requirements do not apply to, not particular *zones* or *districts*.

408-2.1.B(5) then applies the circulation requirements to the Development of General Commercial and Industrial <u>property</u> "except for the **uses**" listed below. Again, there is no mention of General Commercial *District* or Industrial *Districts*. From the way the code is structured (and in particular, its distinction between the terms "districts" (referring to zoning), "uses," and "property," we think the best way to read this is that the exceptions listed in subsection 5 apply to the following list of uses to "property" that is being used for general commercial uses.

The list of uses in subsections 5(a) through 5(j) is as follows:

- (a) Campground (430-25);
- (b) Campus Development uses as defined in 381-4.3;
- (c) Convenience Grocery (430-35);
- (d) Eating and Drinking Establishment;
- (e) Industrial Business Park (430-71) and permitted Accessory Uses (320-3.2);
- (f) Lodging Places;
- (g) Park and Ride Facility (430-89);
- (h) Public Building;
- (i) Services Establishments; and
- (j) Transit Center (430-137).

CDC 106-73 defines "eating and drinking establishment" as any establishment which is required to have an Oregon State Health Division Restaurant License ("License"). Therefore, the proposed use qualifies as an eating and drinking establishment because it is required to have a License and is exempt from CDC 408. For these reasons, the parking in connection with an "eating and drinking establishment" on a "property" characterized by general commercial uses, is exempt from the neighborhood circulation requirements.

410 Grading and Drainage. Grading applications may be processed through a two-step procedure consisting of a preliminary review (grading plan) and a final review (grading permit). For development review through the Type II and III procedure, preliminary grading plans are to be submitted with the development application.

Sheet C33 County Entitlement Grading and Drainage Plan is included with this application.

411-5 Screening and Buffering Matrix. Site is a Commercial Business District abutting an Office Commercial District. O' Screening and Buffering Requirement.

No screen or buffer requirement per this section.

413-3 Off Street Parking Lot Design. Standard 90° Parking stall: 8.5' width, 18' depth. Aisle Width 24'. Bumper Overhang 3'

Parking stalls are all proposed as standard 90° stalls with a minimum width of 8.5' and depth of 18' (stalls 21-44 are 15' depth with a 3' bumper overhang, as allowable by this section). All aisle widths are in excess of the 24' minimum by this section.

413-3.5 Pedestrian Access. In parking lots for customers, residents or employees of 50 or more spaces and two or more rows of parking stalls, separate internal pedestrian connections shall be provided consistent with 408-10 to minimize vehicular-pedestrian conflicts and allow safe pedestrian movement within the lot.

An interior pedestrian path of travel is clearly marked on Sheet C30.

 413-4.1 All required off-street parking and loading areas inside the urban growth boundary shall be surfaced with concrete or asphaltic material to conform with either of the following standards: A. a minimum of 4 inches of concrete for vehicles and 6 inches for commercial vehicles or trucks; or B. Two inches of asphalt overlaying a 6" base (compacted) of crushed stone. The entire parking area is proposed paved with asphaltic pavement, with a minimum 4" of asphalt over 6" Class II base.

413-4.5 All required off-street parking areas shall be constructed with curbs of concrete or asphalt.

All proposed curbs are concrete.

413-4.6 Parking spaces in paved parking areas having more than three stalls are to be marked with paint striping, a minimum of 2" in width.

All parking stalls will be striped with a 2" minimum width.

413-4.8. The finished grade of a parking lot is not to exceed 5% slope.

Per Sheet C33, the parking lot does not exceed 5% slope.

 413-6.1 Minimum Off-Street Parking Requirements. Drive-in restaurant or similar drive-in used for the sale of beverages, food or refreshments for consumption off the premises: 5 per 1,000 square feet of gross floor area.

Calculation: 5 * 3.885 = 19 stalls. Our development exceeds the minimum parking required, with a proposed count of 94 parking stalls.

 413-6.3 Maximum Off-Street Parking Requirements. Drive-in restaurant or similar drive-in used for the sale of beverages, food or refreshments for consumption off the premises: 12.4 per 1,000 square feet of gross floor area.

Calculation: 12.4 *3.885 = 48 stalls. Our development exceeds the maximum parking allowed, with a proposed count of 94 parking stalls. See next item below.

 413.6.6 In either Zone A or B, the Review Authority may approve through a Type II procedure offstreet parking in excess of the maximum parking standards based on findings that: A. The nature of the development will result in a higher-off street parking demand relative to similar uses in the same parking zone; and B. To the greatest degree practicable, the development includes the implementation of opportunities for shared parking, parking structures, utilization of public parking spaces and other appropriate demand management programs.

We request consideration for an increase in the allowance of allowable parking. As you can see in the application materials, there is concern among the community regarding the potential for high drive through traffic demand and the perceived potential for the drive through customers to affect surrounding roads and neighborhoods. To alleviate that demand, available parking spaces that allows customers to enter the restaurant and pick up their order is the most effective alternative. Having parking spaces available to customers during peak demand times is critical to ensuring smooth operations. This will also allow us to dedicate 12-20 stalls as Associate Parking (which is a concern among the Laurel Avenue residents). The comments received from community members during the Neighborhood Meeting is a desire to have as many parking stalls as we can in order to ensure adequate parking for employees as well as to accommodate customers.

414-2 Signs - Commercial and Institutional Districts. Community Business District Maximum area per face 72 square feet. (35 mph traffic speed or more, 4 or more traffic lanes).

Our proposed sign face is 35 square feet.

414-2.3 A freestanding sign shall not be located in a required side or rear yard. A Freestanding sign may project up to the street right-of-way provided there is a minimum ground clearance of 8'-6".

Ground clearance provided by our freestanding sign is 23'.

414-2.4 Freestanding signs shall not exceed 28' in height from ground level.

Total overall height is 28'.

✤ 415, Lighting.

CDC 415-1 provides that CDC 415 applies only to new developments of attached units. The Application does not propose attached units, so CDC 415 does not apply to the Application.

✤ 418, Setbacks.

CDC 418, "Setbacks," regulates obstructions in required yards. No such obstructions are proposed.

✤ 429-6 Minimum number of long-term bicycle parking = 2 spaces. Minimum number of short-term bicycle parking = 2 spaces or one space for each 5,000 square feet of gross floor space.

Our site plan provides 2 long term bicycle parking and 4 short-term bicycle parking spaces.

429-7 Bicycle Parking Location. A. Short term parking must be located onsite and within 50' of a well-used building entrance. Bicycle parking shall have direct access to public right-of-way, existing and proposed bikeways and the main entrance of the principal use. B. Long-term parking shall be located in a secure, well-lighted area no farther from a well-used building entrance than the nearest long-term motor vehicle parking space. C. All bicycle parking facilities shall be separate from motor vehicle parking and maneuvering by a barrier or a minimum of 5". Areas set aside for required bicycle parking must be clearly marked and reserved for bicycle parking only. Bicycle parking shall not obstruct pedestrian walkways.

Both bicycle parking areas are located onsite and with direct access from the proposed bicycle lane along SW Beaverton Hillsdale Highway, near our patio and customer front entrance. It is not within any motor vehicle parking areas and does not obstruct pedestrian walkways.

✤ 430-41.1(A)-(C), Access.

The Application proposes to reduce the three existing driveways on SW Beaverton-Hillsdale Highway to two driveways. Consolidation of access with adjoining developed uses is not possible because the ownerships are different and those properties are fully developed.

Two driveways are proposed on SW Beaverton-Hillsdale Highway. The west driveway is proposed to be a right-in/right-out with a "pork-chop" design to restrict vehicle-turning movements and the east driveway is proposed to be a full-turning movement driveway. The two proposed driveways on SW Beaverton-Hillsdale Highway, classified as a County "Urban Principal Arterial, Other," do not impact residential land uses and are located on a higher classification street.

Considering the four factors in CDC 430-41.1(A)(1)-(4), access to SW Beaverton-Hillsdale Highway is appropriate. The Site size warrants two access driveways. The road classifications do not prohibit two driveways. Sight distance is appropriate considering allowed miles per hour. Adjacent development will not be adversely affected by the proposed driveways.

The Application also proposes one driveway to SW Laurel Road as a gated, emergency access-only access point. The Applicant proposes to restrict access to SW Laurel Road because it is classified as a County "Local Road" and residential land uses are located to the north and east on SW Laurel Road.

The Site Plan clearly marks the driveway entrances and exits.

430-41.2, Drive-in Facilities.

The Application is not part of a larger commercial center. The Drive-In facilities are fully located in the parking lot in the CBD zone.

✤ 430-41.2, Lighting.

This standard applies only to Drive-In facilities in the OC zone. The Drive-In facilities are located in the CBD zone and not the OC zone.

✤ 430-41.4, Hours of Operation.

This standard applies only to Drive-In facilities in the OC zone. The Drive-In facilities are located in the CBD zone and not the OC zone.

501-2.1 and 2.2, Applicability.

CDC Article V applies to the proposed development and property line adjustment.

✤ 501-8.1.A, Critical Services.

Exhibits D, E and F show that adequate water, sewer, and fire protection can be provided to the proposed development prior to occupancy.

***** 501-8.1.B, Access Level of Access.

The Application proposes to improve SW Beaverton-Hillsdale Highway to the required standards as shown in **Exhibit A**.

***** 501-8.1.C, Adequate Drainage.

The Application proposes to provide adequate drainage as shown in **Exhibit N**.

✤ 501-8.2.A(1), Essential Services.

Exhibits B and C show that adequate levels of service from the appropriate sheriff department and transit agency will be provided to the proposed development. Schools are not affected by the Application. With respect to ODOT, the Applicant has submitted its Access Management Report to ODOT for review and approval. In the event the aforementioned approval is not received from ODOT prior to approval of this Application, this criteria can be satisfied with appropriate conditions of approval.

501-8.2.B, Adequate Levels of Arterial and Collector Roads.

The Applicant will pay the Transportation Development Tax.

***** 501-8.2.B-J, Additional Requirements.

Subsections B(1) - (5) are satisfied.

Subsection B(6) is inapplicable.

Subsection C is satisfied because the Applicant will install street lighting, if necessary. SW Beaverton-Hillsdale Highway does not presently include street lighting on its north side adjacent to the Site. As a result, the Applicant does not believe that new street lighting along SW Beaverton-Hillsdale Highway adjacent to the Site is necessary.

Subsection D is not applicable because the Site is not within a planned transit corridor.

Subsection E is not applicable because the Application does not propose gravel roads.

Subsection F is not applicable because future Collector or Arterial street alignments are not shown on the County's Transportation System Plan (the "TSP") at the Site.

Subsection G is satisfied because the Application proposes a half-street improvement on SW Beaverton-Hillsdale Highway.

Subsections H-L are not applicable.

***** 501-8.3.A and B, Desirable Services.

This standard is not applicable because park and trail facilities are not required.

***** 501-8.4, Dedication of Right-of-Way.

This standard is satisfied through the dedication of required right-of-way to SW Beaverton-Hillsdale Highway and SW Laurel Road as shown on the Site Plan.

***** 501.8.5.A-H, Access to Public Roads.

The Application proposes three driveways (an emergency-only driveway on SW Laurel Road and two driveways on SW Beaverton-Hillsdale Highway) that meet Subsection A.

Subsection B(1) is satisfied for the driveway on SW Laurel Road.

Subsection B(4)(b) is satisfied because the Applicant has submitted its Access Management Report to ODOT for approval of the two driveways on SW Beaverton-Hillsdale Highway. In the event the aforementioned approval is not received from ODOT prior to approval of this Application, this criteria can be satisfied with appropriate conditions of approval.

Subsections C-E are not applicable.

Subsection F, "Sight Distance," is satisfied.

Subsections G and H are feasible to be satisfied.

✤ 502-3, Sidewalk Standards.

CDC 502-3.1 is satisfied because the Application proposes to construct sidewalks along SW Beaverton-Hillsdale Highway and SW Laurel Road consistent with County standards.

CDC 605-1, Property Line Adjustment.

✤ CDC 605-1.1.A(2).

The Property Line Adjustment involves two or more existing parcels with two land use districts. The predominant land use district is CBD and the minimum lot size is 8500 SF. The reduced parcel will not be less than 8500 SF.

✤ 605-1.1.B(1).

Both properties meet or exceed the minimum lot size in the applicable district.

✤ 605-1.2.A-C.

Exhibit S contains the required information.

✤ 605-1.33.

The proposed property line adjustment complies with the applicable CDC standards and does not result in a violation of the setback standards. The proposed property line adjustment complies with CDC 501-8.5 because each resulting parcel will have lawful access to a public road.

✤ 605-1.4.

The Applicant will comply with the survey requirements.

✤ 605-1.5.

The Applicant will comply with the filing and recording requirements.

"Raleigh Hills-Garden Home Community Plan."

The Raleigh Hills-Garden Home Community Plan (the "CP") is part of the County's "Comprehensive Framework Plan for the Urban Area," which applies to the Site.

The Application is a "Limited Land Use Decision" as defined in ORS 197.015(12)(a)(B) because it proposes a final decision on a site within the UGB for a use that is permitted outright, including site review and design review. Type II uses are presumed to be appropriate in the district. CDC 202-2.1. Type II uses include those identified uses in the CDC as Type II uses. CDC 202-2.2.A. The proposed use is a Type II use in the CBD zone.

A. CP General Design Element ("GDE") 11.

CP GDE 11 provides as follows:

"11. Proposed new commercial uses and expansion of existing uses along either Canyon Road or Beaverton-Hillsdale Highway shall be evaluated against the community plan goal to discourage strip commercial development. Designs shall include features such as shared access, orientation, parking, signage and landscaping, as required by the Community Development Code, which mitigate the detrimental effects of commercial strip development."

CP GDE 11 applies to new commercial uses on Beaverton-Hillsdale Highway. This new commercial development is not strip commercial development, an undefined term in the CDC. The proposed use is not a strip commercial development because it is a single use with interior parking and driveways. The reduction of the number of existing driveways on SW Beaverton-Hillsdale Highway and proposed sign and landscaping which meet applicable CDC standards all mitigate any detrimental effects of commercial strip development.

B. CP GDE 13.

CP GDE 13 provides as follows:

"13. Where the impact of noise and lighting associated with commercial or industrial uses adjacent to residential areas does not meet the standards in the Community Development Code, the commercial development shall be subject to limited hours of operation."

CP GDE 13 addresses the impacts of noise and lighting from commercial uses to adjacent residential areas that do not met applicable CDC standards. CDC 430-41.4 limits the hours of operation of drive-in facilities in the OC zone but not the CBD zone. The Application's drive-in facilities are not located within the OC zone, so the proposed use meets the applicable CDC standards. The Application satisfies CDC 423-6, "Noise," because it is feasible to satisfy the standards in Washington County Code of Ordinances Chapter 8.24, "Noise."

CDC 415, "Lighting," does not apply to the Application as explained above.

C. CP GDE 15.

CP GDE 15 provides as follows:

"15. New access onto Arterials and Collectors shall be limited as detailed in the Community Development Code provisions on Circulation and Access. Shared or

consolidated access shall be required prior to issuance of a development permit for land divisions or structures located adjacent to these facilities, unless demonstrated to be unfeasible."

CP GDE 15 provides for limited new access onto an arterial street, such as SW Beaverton-Hillsdale Highway, as provided for in CDC 510-8.5.B(4)(b). Shared or consolidated access is required unless demonstrated to be infeasible. Shared access with adjacent uses is infeasible because of different ownerships and because those existing uses are fully developed. The Application proposes to reduce the number of driveways onto SW Beaverton-Hillsdale Highway from three driveways to two driveways.

CDC 501-8.5.B(4)(b) provides that access onto arterials that are state highways are subject to Oregon Department of Transportation ("ODOT") approval. This standard is addressed in Part 6.1, above.

D. Subarea Design Elements, Subarea 2, SDE 4, Area of Special Concern ("ASC") H.

ASC H provides as follows:

"4. Land designated for commercial uses adjacent to Canyon Road and Beaverton-Hillsdale Highway comprises *Area of Special Concern H*. In order to promote the elimination of those strip commercial features which are vehicle and pedestrian traffic safety hazards and the addition of features which will enhance the business advantage and overall appearance of the subarea, the following standards shall apply to development of structures, land divisions and significant remodeling of existing structures within this area.

"a. Access drives and curb cuts shall be consolidated and, if feasible, shared between adjoining parcels.

"b. Where no curb cuts onto Canyon Road or Beaverton-Hillsdale Highway now exist, new direct access shall be allowed only for an interim use until alternative access is completed, pursuant to access management provisions in the Comprehensive Framework Plan and Community Development Code.

"c. A safe and convenient means of pedestrian circulation shall be provided to each use. The pedestrian system shall provide access from each use to the property line of adjacent uses and from the use to the nearest public transit facility or stop. The design of new pedestrian facilities shall complement the design of those already constructed in adjacent uses.

"d. A landscape buffer area shall be established and maintained along that portion of the property abutting SW Canyon Road or Beaverton-Hillsdale Highway. This landscaping shall be done at least to the level of Type 1 Screening and Buffering Standards in the Community Development Code.

"e. Business identification and directional signs shall be brought into conformance with sign standards in the Community Development Code and consolidated whenever feasible."

The Site is designated for commercial use and is located on SW Beaverton-Hillsdale Highway.

Subsection (a) provides for consolidation and, if feasible, shared driveways with adjoining parcels. The Application proposes to consolidate three driveways into two driveways on SW Beaverton-Hillsdale Highway. Shared driveways with the adjacent developed parcels are not feasible because of different ownerships and because those properties are fully developed.

Subsection (b) is not applicable because it applies to sites without existing driveways to SW Beaverton-Hillsdale Highway.

Subsection (c) requires a pedestrian system for access from the proposed use to the property line of adjacent uses and to the nearest transit stop. The Site Plan shows sidewalk connections to each of the three adjacent uses on the east, north and west. The nearest transit stop is at the northeast corner of the intersection of SW 107th Avenue and SW Beaverton-Hillsdale Highway. The Application proposes to construct a sidewalk connecting to the existing sidewalk on the adjacent Chick-fil-A sidewalk leading to the transit stop.

Subsection (d) requires a landscape buffer meeting the Type I screening and buffering standard in CDC 411-6.1 on the Site's frontage on SW Beaverton-Hillsdale Highway. The Site Plan shows the 10 foot landscaping buffer area without a fence containing the required canopy and understory trees location and the landscaping meeting the Type I standard.

CDC 411, "Screening and Buffering," establishes screening and buffering requirements for the OCzoned part of the Site and the adjacent OC-zoned lot to the north. CDC 411-5, "Screening and Buffering Matrix," does not require screening and buffering adjacent to the OC-zoned lot to the north. The properties to the east and west are in the City of Beaverton (the "City"). CDC 411-5 does not establish screening and buffering adjacent to properties in the City. Screening and buffering is not required when lots are separated by public streets or roads. CDC 411-3.2.C. No additional parking lot or driveway screening or buffering is required.

Subsection (e) requires that business and directional signs meet CDC sign standards. It is feasible for the Application to meet these standards.

Service Provider Letters

Service Provider Letters from Clean Water Services, ("CWS"), TVFRD, Westside Water District, Tualatin Hills Parks and Recreation District ("THPRD"), Washington County Health and Human Services ("HHS"), Solid Waste & Recycling are attached as **Exhibits D-H**.

***** City of Beaverton Service Provider Letter

The City of Beaverton Service Provider Letter is attached as **Exhibit U**.

Neighborhood Meeting Materials

The required neighborhood meeting materials are attached as **Exhibit T**. **Exhibit T** shows that the Applicant satisfied CDC 203-3, "Neighborhood Meeting." The Applicant held the required neighborhood meeting before the County deemed the Application complete. CDC 203-3.3.

Completed Traffic Impact Statement ("TIS")

The TIS is **Exhibit I.**

Traffic Study

The traffic study addressing Incompleteness Items 7.a-7.c is Exhibit J.

Beaverton-Hillsdale Highway Dedication

The Site Plan showing that the required dedication is consistent with the TSP is **Exhibit A**.

Conclusion.

The County can find that the Application satisfies the applicable CDC and CP standards.

List of Exhibits

- Exhibit A Proposed Site Plan, Sheet C30.0
- **Exhibit B** Washington County Sheriff Service Provider Letter
- **Exhibit C** TriMet Service Provider Letter
- **Exhibit D** CWS Service Provider Letter
- Exhibit E West Slope Water District Service Provider Letter
- **Exhibit F** Tualatin Valley Fire and Rescue District Service Provider Letter
- **Exhibit G** THPRD Service Provider Letter
- **Exhibit H** Washington County HHS Service Provider Letter
- **Exhibit I** Traffic Impact Statement
- **Exhibit J** Traffic Study
- **Exhibit K** Traffic Management Plan
- **Exhibit L** Existing Site Plan
- **Exhibit M** Grading and Drainage Plan
- **Exhibit N** Storm Drain and Utility Plan
- **Exhibit O** Drainage Analysis Plan
- **Exhibit P** Boundary and Easement Plan
- **Exhibit Q** Landscape Planting Plan
- **Exhibit R** Site Construction Concept Details Plan
- **Exhibit S** Property Line Adjustment Map
- **Exhibit T** Neighborhood Meeting Materials
- **Exhibit U** City of Beaverton Service Provider Letter
- Exhibit V Elevations







	PRE-AFFLI	CATION DATE.	00/10/2020
Dept. of Land Use & Transportation Planning and Development Services	Service P APPLICA	rovider: PLEASE F NT:	RETURN THIS FORM TO:
155 N. 1 st Avenue, #350-13	COMPAN	Y: IN-N-OUT Burg	ers, A California Corporation
Hillsboro, OR 97124	CONTACT	Cassie Ruiz	
http://www.co.washington.or.us	ADDRESS	5: 13502 Hambur	ger Lane
Request For Statement Of Service		Baldwin Park.	CA 91706
Availability For Sheriff / Police Services	PHONE	(626) 813-822	6
-	OWNER(S)		
WASHINGTON COUNTY SHERIFF	NAME.	550 SW PARK AVE	
	ADDRESS.	PORTLAND OR	97205
	DHONE:	(503)407-7707	
	Property De	<u>(000) 101 1101</u>	Lot Number(s):
	Fibbelly De	sc Tax wap(s).	1S114BC02000, 1S114BC02
			1S114BC02401, 1S114BC02100
	Site Size: 2	243 acres	
	Site Address Nearest cros SW Beaverto	s: 10565 &10505 SW Beave ss street (or directio on Hillsdale Hwy & SW	erton Hillsdale Hwy, Beaverton OR 97005 ns to site): / 107th Ave
PROPOSED PROJECT NAME: IN-N-OUT Burger			
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Exhibit B Page 1 of 1



WASHINGTON COUNTY

Dept. of Land Use & Transportation Planning and Development Services Current Planning 155 N. 1st Avenue, #350-13 Hillsboro, OR 97124 Ph. (503) 846-8761 Fax (503) 846-2908 http://www.co.washington.or.us

Transit Availability Statement (Applicant to Complete)

Please Note: In accordance with a letter dated January 15, 2013, from the Director of TriMet Policy & Planning, this Transit Availability Statement shall serve as a functional replacement to the Service Provider Letter required from TriMet pursuant to Section 501-8.2.A.(1).

Transit information shall be obtained from TriMet's web site. Maps can be found at www.trimet.org (click on "Maps & Schedules" and then "Interactive System Map") or directly at http://ride.trimet.org/?tool=routes#/. The interactive map will display any transit routes and stops near the site. Please print the map and attach it to this form.

PRE-APPLICATION DATE: 08/10/2020

*** Applicant: Please complete this form yourself using the links listed at the left. Submit the completed form with your land use application. Please do not send this in prior to application submittal.

OWNER(S):

NAME:	LYNN IRENE ANGEL F	AMILY LTD PARTNERSHIP
ADDRESS:	550 SW PARK AVENU	E
	PORTLAND, OR 9720	05
PHONE:	(503)407-7707	
Property De	sc.: Tax Map(s):	Lot Number(s): 1S114BC02000, 1S114BC02400
		1S114BC02401, 1S114BC02100
Site Size: 2	.243 acres	
Site Addres	565 &10505 SW Beaver S:	ton Hillsdale Hwy, Beaverton OR 97005
Nearest cros SW Beaver	ss street (or direction to the street of the street (or direction to the street of the	ons to site): & SW 107th Ave

PROPOSED PROJECT NAME: IN-N-OUT Burger

PROPOSED DEVELOPMENT ACTION: (DEVELOPMENT REVIEW, SUBDIVISION, PARTITION, SPECIAL USE) DEMOLITION OF THE TWO EXISTING RESTAURANT USES ON THE PROPERTY AND THE DEVELOPMENT OF A 3,885 SQUARE FOOT IN-N-OUT BURGER RESTAURANT WITH DRIVE THROUGH SERVICE AND OUTDOOR SEATING

EXISTING USE: Commercial - Res	taurant PROPOSED US	SE: <u>Commercial - Restaurant</u>
IF RESIDENTIAL:	IF INDUSTRIAL/COMMERCIAL:	IF INSTITUTIONAL:
NO. OF DWELLING UNITS:	TYPE OF USE: Restaurant	NO. SQ. FT
SINGLE FAM MULTI-FAM	NO. OF SQ. FT. (GROSS FLOOR AREA) 3,885	NO. STUDENTS/EMPLOYEES/MEMBERS:

Highway and SW 107th Avenue was recently constructed in conjunction with the neighboring Chick Fil A development.

TRANSIT AVAILABILITY/IMPROVEMENTS:

a) Name/number of nearest transit line(s): Bus 54 and stop(s): SW Beaverton-Hillsdale & 107th Ave

b) Are any transit stops located within 300 feet of the development site?: Yes

c) Please describe improvements proposed, if any, to new or existing transit stops, or proposed improvements to access to existing transit facilities: The existing bus stop for Bus 54 located at the NEC of SW Beaverton Hillsdale

Our project does not propose any changes to the newly constructed street improvements, however we are proposing to perform street frontage improvements along the entire frontage length of SW Beaverton Hillsdale Highway to match the condition to our west where the bus stop is located. These improvements include street

widening by 10' and the accommodation of a new bike lane. This will improve the access to the existing bus stop by providing a longer area of the street widened width to accommodate the bus stop.

Please Note: If the development is located within 300 feet of a transit stop and/or any improvements are proposed per c) above, Current Planning Services will forward a copy of the application to TriMet for review upon application acceptance for processing.

Shared\CurrentPlanning\CurrentPlanningLibrary\LIBRARY\Forms\public\Service Pro Tri-Met Pre-Screen.dot

07/05/16

Exhibit C Page 1 of 2

	AARON'S TRANQUILITY PONDS	1	1	SWI109th/A	YT-	
÷	Service Nearby		×	BEAVERT	ON RVICE	
• 105 • •	05 SW Beaverton Hillsdale I Here Start Here	Hwy		W 110th Ave	SW SW Kennedy St	Ki
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54 to Beaver SW Beaver	ton TC ton- Hillsdale & 107th	Due	\Leftrightarrow	SW LOOPTH TARGET		-
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to Portlar SW Beaver	nd ton-Hillsdale & Western	27 min		ACCIDENT PAIN &	H.L.L	
54 to Portlar SW Beaver	nd ton-Hillsdale & 107th	26 min		WELLNEDS COR	GREAT CLIPS	AZIFCA
54 to Beaver SW Beaver	ton TC ton-Hillsdale & Western	27 min	\swarrow	AMPM AUTOHAUS BAYERN Beaverton Hillsdale Hwy	SUBWAY Of Beaver	verton TC
to Beaver SW Beaver	ton TC ton-Hillsdale & 101st	26 min	\swarrow	MEN'S TOWN CUSTOM TAILORING		N
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4 to Beaver SW Beaver	ton TC ton-Hillsdale & 110th	Due	$\stackrel{\wedge}{\simeq}$		JANET KIRKLAND,	BOOKS
3 to Beaver SW 5th & W	ton TC via Allen & King /estern	Scheduled at 5:59am	$\stackrel{\wedge}{\simeq}$		PHD	MONTAVILLA
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to Poster	ton TC via Allen & King	about start at				





SENSITIVE AREA PRE-SCREENING SITE ASSESSMENT

(Clean Water Services File Number 22-000527
1. Jurisdiction: Washington County	
2. Property Information (example: 15234AB01400)	3. Owner Information
1S114BC02000, 1S114BC02400, 1S114BC02	401 Company: Lynn Irene Angel Family LTD Partnership
	Address: 550 SW park Avenue
OR Site Address: 10565 &10505 SW Beaverton Hillsdale Hwy	City, State, Zip: Portland, Oregon, 97205
City, State, Zip: Beaverton, Oregon, 97005	Phone/fax: (503) 407-7707
Nearest cross street: SW Beaverton Hillsdale Hwy & SW 107th A	
4. Development Activity (check all that apply)	4. Applicant information
Addition to single family residence (rooms, deck, garage)	
Lot line adjustment I Minor land partition	Address: 12502 Hemburger Long
Residential condominium Commercial condominium Residential subdivision Commercial subdivision	City, State, Zip: Baldwip Park, CA, 91706
Commercial Single let commercial Multi let commercial	Phone/fax: 6268138226
	Email: CaRuiz@innout.com
6. Will the project involve any off-site work? LYes LNO L	JUnknown
 Additional comments or information that may be needed to 	o understand your project:
	· ····································
Services have authority to enter the project site at all reasonable tir information related to the project site. I certify that I am familiar w knowledge and belief, this information is true, complete, and accu	vith the information contained in this document, and to the best of my rate.
Signature ONLINE SUBMITTAL	Date <u>2/4/2022</u>
FOR DISTRICT USE ONLY	
Sensitive areas potentially exist on site or within 200' of the site. TH ISSUANCE OF A SERVICE PROVIDER LETTER. If Sensitive Areas Processes Assessment Report may also be required.	IE APPLICANT MUST PERFORM A SITE ASSESSMENT PRIOR TO eas exist on the site or within 200 feet on adjacent properties, a Natural
 Based on review of the submitted materials and best available infor site. This Sensitive Area Pre-Screening Site Assessment does NOT el they are subsequently discovered. This document will serve as your 3.02.1, as amended by Resolution and Order 19-22. All required pellocal. State and federal law 	rmation sensitive areas do not appear to exist on site or within 200' of the iminate the need to evaluate and protect water quality sensitive areas if Service Provider Letter as required by Resolution and Order 19-5, Section ermits and approvals must be obtained and completed under applicable
□ Based on review of the submitted materials and best available infor existing or potentially sensitive area(s) found near the site. This Sense evaluate and protect additional water quality sensitive areas if they Provider Letter as required by Resolution and Order 19-5, Section 3 approvals must be obtained and completed under applicable local,	mation the above referenced project will not significantly impact the sitive Area Pre-Screening Site Assessment does NOT eliminate the need to are subsequently discovered. This document will serve as your Service .02.1, as amended by Resolution and Order 19-22. All required permits and state and federal law.
 THIS SERVICE PROVIDER LETTER IS NOT VALID UNLESS _ The proposed activity does not meet the definition of development OR SERVICE PROVIDER LETTER IS REQUIRED. 	cor the lot was platted after 9/9/95 ORS 92.040(2). NO SITE ASSESSMENT
Reviewed by Nicholas (rossett	Date 2/14/22
Once complete, email to: SPLReview@clea	nwaterservices.org • Fax: (503) 681-4439
OR mail to: SPL Review, Clean Water Services, 2	2550 SW Hillsboro Highway, Hillsboro, Oregon 97123 Revised 2/2020
Main Office • 2550 SW Hillsboro Highway • Hillsboro, Oregon	97123 • p: 503.681.3600 f: 503.681.3603 • cleanwaterservices.org Page 1 of 2



LEGEND LL PROPOSED INOB LEASE PREMISES LINE. NEW 24"x36" CONCRETE DRAIN BOX INLET WITH A FLOGARD PLUS FOSSIL FILTER <u>EX. 34' WIDE</u> RWY. W/8'-X'S VOH VEHICLE OVERHANG WITH NO OBSTRUCTIONS INSERT FOR THE PRE-TREATMENT OF INCLUDING LIGHT POLES, TREES AND STORMWATER RUNOFF. SIGNAGE. PROPOSED INOB INSTALLED AND MAINTAINED ADA ACCESSIBLE PATH OF TRAVEL. 22'-6" TALL FIXTURE HEIGHT LIGHT POLE ACCESSIBLE PATH OF TRAVEL IS NOT LESS ON TOP OF A 30" TALL 24" DIAMETER THAN 4 FEET WIDE, AND DOES NOT EXCEED CONCRETE BASE FOR A TOTAL HEIGHT OF A RUNNING SLOPE OF 1:20 (5%) OR A 25' TALL. CROSS SLOPE IN EXCESS OF 1:50 (2%). REFER TO SHEET C33 FOR SPECIFIC PROPOSED INOB INSTALLED AND MAINTAINED SLOPES AND GRADES. LANDSCAPED PLANTER AND IRRIGATION 7 1 SYSTEM ONSITE, INCLUDING AREA UNDER PGE ELECTRIC PAD MOUNT TRANSFORMER WITH BOLLARDS. BUILDING ROOF OVERHANG (ROH) AND VEHICLE OVERHANG (VOH) CONSISTING OF \equiv APPROXIMATELY 23,326 SQUARE FEET TR PORTABLE TRASH RECEPTACLE ON A ⊨ (25.1%). MINIMUM 24"x24"x4" CONCRETE PAD. ब्रह्लब्रह्ल BLACK TRUNCATED DOMES DETECTABLE NEW CONCRETE SIDEWALK. <u>تَحَدَّدُةُ فَحَدَّدُةُ فَحَدَّدُةً فَعَدَّدَةً فَعَدَّدَةً فَعَدَّدَةً فَعَدَّدَةً الع</u> REFER TO THE BOUNDARY MONUMENT AND VEHICLE DETECTOR LOOP. SURVEY CONTROL POINT DESCRIPTIONS SHOWN ON SHEET C36. PL PROPERTY LINE. SIMPLIFIED PLOTTABLE EASEMENT (150) SIMPLIFIED PLOTIADEL LASEMENT DESCRIPTION SHOWN ON SHEET C36. OUTDOOR SEATING PATIO TABLE WITH UMBRELLA (4 SEATS). DRIVE-THRU CATWALK CONCRETE PAD WITH ∘US OUTDOOR SEATING PATIO TABLE WITH NO UMBRELLA STAND PER DETAIL "11" SHOWN ON UMBRELLA (4 SEATS). SHEET C___. OUTDOOR SEATING PATIO TABLE WITH NO PROPOSED 18" TO 27" TALL 22" WIDE UMBRELLA (2 SEATS). STUCCO COVERED SEAT/SCREEN WALL WITH A PRECAST CONCRETE CAP. NEW 3' TALL 18"x24" LIT "DRIVE THRU" DIRECTIONAL SIGN. PROPOSED INOB INSTALLED AND MAINTAINED ⁺ → OFFSITE STREET LANDSCAPE PLANTER AND NEW 3' TALL 18"x24" LIT "THANK YOU, DO IRRIGATION SYSTEM CONSISTING OF APPROXIMATELY 429 SQUARE FEET IN S.W. NOT ENTER" DIRECTIONAL SIGN. LAUREL STREET AND 266 SQUARE FEET IN NEW PEDESTRIAN CROSSWALK SIGN. S.W. BEAVERTON-HILLSDALE HIGHWAY. Ē NEW ACCESSIBILITY ENTRY SIGN. В REFER TO SHEET C36 FOR ENCROACHMENT RE NOTES. INOB IN-N-OUT BURGER. PROPOSED PRECAST CONCRETE MODULAR PROPOSED TAN COLOR SPLIT-FACE CMU OI WETLANDS UNIT WETLANDMOD-6-8-5'-0"-V STORMWATER BIOFILTRATION SYSTEM. WALL AND 2" CAP. BLIC 3 24" WIDE MATTED INOB ASSOCIATE EXPOSED HEIGHT OF PROPOSED CMU WALKWAY PER _____ CONSISTING OF APPROXIMATELY 360 SQUARE FEET. RETAINING WALL IN FEET WITH A 46" TALL TUBE STEEL FENCE (TSF) ON TOP WHEN THE EXPOSED HEIGHT IS GREATER THAN 30". CF CURB FACE. \smile 1.55)SCP **GENERAL NOTES** (M)²¹¹ #200 1. IN-N-OUT BURGER GROSS SITE AREA: 97,701 SQ. FT. OR 2.243 ACRES. PP#-2260 -PROPOSED 5' LAUREL STREET DEDICATION: 570 SQ. FT. OR 0.013 ACRES. PROPOSED 8.5' BEAVERTON-HILLSDALE HIGHWAY DEDICATION: 2,550 SQ. FT. OR 0.059 ACRES. MINUS NET FLAG STRIP AT NORTHEAST CORNER: 1,536 SQ. FT. OR 0.035 ACRES. MINUS NET FLAG STRIP AT NORTHEAST CORNER: NET SITE AREA: 93,045 SQ. FT. OR 2.136 ACRES PGI 2. EXISTING COUNTY ZONE: CBD (COMMUNITY BUSINESS DISTRICT) FOR TAX LOTS 1S114BC02000, 1S114BC02400 AND 1S114BC02401 FRONTING S.W. BEAVERTON-HILLSDALE HIGHWAY. OC (OFFICE COMMERCIAL DISTRICT) FOR TAX LOT 1S114BC02100 FRONTING S.W. LAUREL STREET. 3. GENERAL LAND DESIGNATION: 4. EXISTING LAND USE: ONE-STORY 3,555 SQUARE FOOT "HAWAIIAN TIME" RESTAURANT WITH A SINGLE 170' LONG DRIVE-THRU LANE AND 81 SURFACE STRIPED AND UNSTRIPED PARKING SPACES FOR THE PROPERTY AT 10565 S.W. BEAVERTON-HILLSDALE HIGHWAY. ONE-STORY 6,043 SQUARE FOOT "AZTECA MEXICAN RESTAURANT" AND 60 SURFACE STRIPED PARKING SPACES FOR THE PROPERTY AT 10505 S.W. BEAVERTON-HILLSDALE HIGHWAY. \frown 5. 5 SPACES PER 1,000 SQUARE FEET OF GROSS FLOOR AREA PLUS OUTDOOR PATIO SEATING AREA = 24 MINIMUM PARKING SPACES REQUIRED. 12.4 SPACES PER 1,000 SQUARE FEET OF GROSS FLOOR AREA PLUS OUTDOOR PATIO SEATING AREA = 58 MAXIMUM PARKING SPACES 6. IN-N-OUT BURGER URBAN BUILDING AREA = 3,885 S.F. 88.50' INDOOR SEATING = 84 SEATS. OUTDOOR SEATING = 34 SEATS (10 TABLES) OUTDOOR SEATING AREA = 698 S.F. STRUCTURE PLUS 64 S.F. EACH FOR 0-4 SEAT TABLES (0 S.F.) PLUS 20 S.F. FOR 3-2 SEAT TABLES (60 S.F.) = 758 S.F. 7. REQUIRED LANDSCAPE AREA WITHIN PROPERTY (15%) = 13,957 S.F. 8. LANDSCAPE AREA PROVIDED WITHIN PROPERTY = 23,326 S.F. (25.1%). <u>€ EX. 40'</u> WIDE DRWY. IN-N-OUT BURGER PARKING SPACE DETAILED SUMMARY TABLE EXISTING | REQUIRED | PROPOSED DESCRIPTION STANDARD SPACE (8.5'x18' PLUS A 2' VOH) 0 0 4 2. STANDARD SPACE (8.5'x15' PLUS A 3' VOH) 0 0 18 137 55 3. STANDARD SPACE (8.5'x18') 68 4. ACCESSIBLE VAN (17'x18' PLUS A 2' VOH) 0 1 1 <u>PUBLIC FI</u> 2 5. ACCESSIBLE SPACE (15'x18' PLUS A 2' VOH) 4 3 ۲ 141 58 94 wv N 7. TOTAL 8. IN-N-OUT BURGER DRIVE THRU VEHICLE QUEUE (20' 0 0 24 LONG INOB VEHICLE) 9. SHORT-TERM BICYCLE PARKING WITHIN DESIGNATED BIKE 0 2 4 RACK. 10. LONG-TERM BICYCLE PARKING WITHIN A LOCKABLE 0 2 2 PERMANENTLY ANCHORED LOCKER ON A CONCRETE SLAB-AMERICAN BICYCLE SECURITY COMPANY BIKE-SHELL MODEL 302, FINISH: MEDIUM GRAY. 10. ALL NEW SIGNS SHALL BE APPROVED BY A SEPARATE CITY PERMIT. 11. COUNTY TAX LOT: 1S114BC02100, 1S114BC02000, 1S114BC02400 AND 1S114BC02401 SHEET INDEX OF COUNTY ENTITLEMENT DRAWINGS NO. SHEET TITLE C30.0 COUNTY ENTITLEMENT NEW SITE PLAN C30.1 COUNTY ENTITLEMENT TRAFFIC MANAGEMENT PLAN C31 COUNTY ENTITLEMENT EXISTING SITE PLAN C32 COUNTY ENTITLEMENT DEMOLITION PLAN <u>PP# 2259</u> C33 COUNTY ENTITLEMENT GRADING AND DRAINAGE PLAN C34 COUNTY ENTITLEMENT STORM DRAIN AND UTILITY PLAN C35 | COUNTY ENTITLEMENT DRAINAGE ANALYSIS SITE PLAN C36 | COUNTY ENTITLEMENT TOPOGRAPHY SURVEY MAP C37 COUNTY ENTITLEMENT BOUNDARY AND EASEMENT MAF LPP.1 COUNTY ENTITLEMENT LANDSCAPE PLANTING PLAN LCC.1 COUNTY ENTITLEMENT SITE CONSTRUCTION CONCEPT DETAILS PLAN AVENUE **IN-N-OUT BURGER COUNTY ENTITLEMENT** 10505 AND 10565 SW BEAVERTON-**NEW SITE PLAN**

Exhibit D JN 20011-20011 C30.0cens Page 2 of 2

C30.0

LOC INOB LIMITS OF PROPOSED CONSTRUCTION.

	PRE-APPLICATION DATE: 08/10/2020	
Dept. of Land Use & Transportation Planning and Development Services	Service Provider: PLEASE RETURN THIS FORM TO: APPLICANT:	
155 N. 1 st Avenue, #350-13	COMPANY: IN-N-OUT Burgers, A California Corporation	
OREGON Hillsboro, OR 97124	CONTACT: Cassie Ruiz	
http://www.co.washington.or.us	ADDRESS: 13502 Hamburger Lane	
Request For Statement Of Service	Baldwin Park, CA 91706	
Availability (Service Provider Letter)	PHONE: (626) 813-8226	
WATER DISTRICT: West Slope Water District	<u>OWNER(S)</u> :	
FIRE DISTRICT:	NAME: LYNN IRENE ANGEL FAMILY LTD PARTNERSHIP	
	ADDRESS: 550 SW PARK AVENUE	
CLEAN WATER SERVICES (Sanitary Sewer)	PORTLAND, OR 97205	
	PHONE: (503)407-7707	
Additionally, you'll need our separate, individual request forms titled:	Property Desc.: Tax Map(s): <u>IS114BC02000, 1S114BC0</u>	02400
Clean Water Services (Surface Water Mgmt.)	1S114BC02401, 1S114BC0210	00
 Tri-Met 	Site Size: 2.243 acres	
 School 	Site Address: 10565 & 10505 SW Beaverton Hillsdale Hwy, Beaverton OR 97005	
Sheriff / Police	Nearest cross street (or directions to site):	
 Tualatin Hills Park & Recreation District 		
DEVOLUTION OF THE TWO EXISTING RESTAURANT USES ON THE PROPE IN-N-OUT BURGER RESTAURANT WITH DRIVE THROUGH SERVICE AND O EXISTING USE: Commercial - Restaurant	UBDIVISION, MINOR PARTITION, SPECIAL USE) RTY AND THE DEVELOPMENT OF A 3,885 SQUARE FOOT UTDOOR SEATING PROPOSED USE: Commercial - Restaurant	
FROMOSED DEVELOPMENT ACTION: (DEVELOPMENT REVIEW, S DEMOLITION OF THE TWO EXISTING RESTAURANT USES ON THE PROPE IN-NOUT BURGER RESTAURANT WITH DRIVE THROUGH SERVICE AND O EXISTING USE: Commercial - Restaurant F RESIDENTIAL: IF INDUSTRIAL/CU NO. OF DWELLING UNITS: TYPE OF USE: Restaur SINGLE FAM. MULTI-FAM. NO. OF SQ. FT. (GROSS)	UBDIVISION, MINOR PARTITION, SPECIAL USE) RTY AND THE DEVELOPMENT OF A 3,885 SQUARE FOOT UTDOOR SEATING PROPOSED USE: Commercial - Restaurant OMMERCIAL: IF INSTITUTIONAL: rant NO. SQ. FT FLOOR AREA) 3,885 NO. STUDENTS/EMPLOYEES/MEMBERS: VICE PROVIDER*****	
IF RESIDENTIAL: NO. OF DWELLING UNITS: SINGLE FAM. MULTI-FAM. DEVELOP SERVICE AVAILAN MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM. MULTI-FAM.	UBDIVISION, MINOR PARTITION, SPECIAL USE) RTY AND THE DEVELOPMENT OF A 3,885 SQUARE FOOT UTDOOR SEATING PROPOSED USE: Commercial - Restaurant OMMERCIAL: IF INSTITUTIONAL: rant NO. SQ. FT. FLOOR AREA) 3,885 NO. SQ. FT. NO. STUDENTS/EMPLOYEES/MEMBERS: VICE PROVIDER***** BLE TO THE SITE (ADEQUATE OR INADEQUATE), NT AS LISTED ABOVE. he applicant will submit the completed form with ED PROJECT. (Use additional sheets if necessary.) needed for you to provide adequate service to this project. I'S FROM 8"CI ON BEAVERTON NILLAUREL AUREL ST. (4"CI). FIRE SERVICE WOULD NE	LE LAN ED 07t
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Exhibit E Page 1 of 2



			EW SITE PLA	N				
R	N-	C	OUNTY ENTI	TLE	MEN.	Г		
-		LCC.1 CC	UNITY ENTITLEMENT LANDSCAPE PLAN DUNTY ENTITLEMENT SITE CONSTRUCTION	ING PLAN	DETAILS PLA	N		
-UHE,		C37 C0	UNTY ENTITLEMENT BOUNDARY AND E	SEMENT MA	NP	_	-	
GVa		C35 C0	UNTY ENTITLEMENT DRAINAGE ANALYS	S SITE PLA	N	_		
0	4	C33 C0	UNTY ENTITLEMENT GRADING AND DRU	INAGE PLAN	A.N.			
	-GUY	C31 C0 C32 C0	UNTY ENTITLEMENT EXISTING SITE PLU UNTY ENTITLEMENT DEMOLITION PLAN	N N		-	_	
	WIRE	C30.0 C0	UNTY ENTITLEMENT NEW SITE PLAN	ENT PLAN	-	_	-	
		NO.	SHEET INDEX OF COUN SHEET TO		LEMENT	DRA	WINGS	-
		11. COU	NTY TAX LOT: 151148C02100, 151148C0200	0, 1S1148C02	400 AND 15114	8002	401.	-
		10. ALL	RIKE-SHELL MODEL 302, FINISH: MEDIUM (NEW SIGNS SHALL BE APPROVED BY A SE	PARATE CITY	PERMIT.			
		10.	LONG-TERM BICYCLE PARKING WITHIN A LC PERMANENTLY ANCHORED LOCKER ON A CO SLAB-AMERICAN BICYCLE SECURITY COMPAN	CKABLE NORETE Y		0	2	2
	PGE E	9.	SHORT-TERM BICYCLE PARKING WITHIN DES VACK.	ignated bike		0	2	4
	NT.	8.1	N-N-OUT BURGER DRIVE THRU VEHICLE Q ONG INOB VEHICLE)	JEUE (20'		0	0	24
		5.	ACCESSIBLE SPACE (15'x18' PLUS A 2' VO	H)	1	4	2	3
W	T	4.	ACCESSIBLE VAN (17'x18' PLUS A 2' VOH		1	0	1	1
		2.	STANDARD SPACE (8.5'x15' PLUS & 3' VO	0		0	0	18
Hd-		1.	STANDARD SPACE (8.5'x18' PLUS & 2' VO	0	DOS	O	0	4
1	H	9.	IN-N-OUT BURGER PARKING	SPACE DETA	ILED SUMMARY	TABLE		PROSONER
1		8. LAN	DSCAPE AREA PROVIDED WITHIN PROPERTY	= 23,326 S.	F. (25.1%).			
11		PLUS 7. RED	20 S.F. FOR 3-2 SEAT TABLES (60 S.F.) = 758 S.F. (15%) = 13	957 S.F.		and month	- 1
1	X	INDO OUT	OR SEATING = 84 SEATS. DOOR SEATING = 34 SEATS (10 TABLES). DOOR SEATING AREA = 858 S.F. STRUCTURE	E PLUS AL	S.F. EACH FOR	0-4	SEAT TARE	5 (0 SF)
9'	r	ARE/	N = 58 MAXIMUM PARKING SPACES	3,885 S.F.	PLUS UUII	with	AND SEAT	
0	RAW	5. 5 S 24 1 12.4	PACES PER 1,000 SQUARE FEET OF GROSS MINIMUM PARKING SPACES REQUIRED. SPACES PER 1,000 SQUARE FEET OF GRO	FLOOR ARE	REA PLUS OUTDO	DR PA		AREA =
ONC. S			ONE-STORY 6,043 SQUA SURFACE STRIPED PARKI BEAVERTON-HILLSDALE H	E FOOT "AZ"	OR THE PROPER	RESTA	URANT AN	D 60 W.
DEWAL			170' LONG DRIVE-THRU SPACES FOR THE PROPE	ANE AND BI	SURFACE STRI	PED A	ND UNSTRIP	ED PARKING
×		3. GEN 4. EXC	ieral land designation: Sting land use: one-story 3,555 squa	E FOOT "HAN	WAIIAN TIME" R	ESTAU	RANT WITH	A SINGLE
			OC (OFFICE COMMERCIAN LAUREL STREET.	AL DISTRICT)	FOR TAX LOT	15114	HBC02100 FI	RONTING S.W.
L.G	1	2. E05	TING COUNTY ZONE: CBD (COMMUNITY BU 151148C02400 AND 1 HIGHWAY.	SINESS DISTRI	CT) FOR TAX L	BEAT	S114BC0200	XO, LSDALE
	7	PRO	POSED 8.5' BEAVERTON-HILLSDALE HIGHWA IS NET FLAG STRIP AT NORTHEAST CORNEL SITE AREA:	DEDICATION	2,550 SQ. FT 1,536 SQ. FT 93,045 SQ. F	OR OR T. OR	0.059 ACRE 0.035 ACRE 2.136 ACR	S. ES.
o a	CUY	1. IN-I PRO	N-OUT BURGER GROSS SITE AREA: POSED 5" LAUREL STREET DEDICATION:		97,701 SQ. F 570 SQ. FT.	T. OR OR D.	2.243 ACR 013 ACRES.	ES.
CHE T-	WIRE	0	NERAL NOTES					
			TUBE STEEL FENCE (TSF) ON TOP WHEN THE EXPOSED HEIGHT IS GREATER THAN 3	r. CF	CURB FACE.	Y 36	D SQUARE F	EET.
		2	EXPOSED HEIGHT OF PROPOSED CMU RETAINING WALL IN FEET WITH A 46" TALL		24" WIDE MAT	TED I	NOB ASSOC	TING OF
			PROPOSED TAN COLOR SPLIT-FACE CMU WALL AND 2" CAP.	o	PROPOSED PR WETLANDS UN STORMWATER	ECAST IT WEI BIOFIL	CONCRETE	MODULAR 5-8-5'-0"-V STEM.
1		1 INOB	NEW ACCESSIBILITY ENTRY SIGN. IN-N-OUT BURGER.	B	REFER TO SHE NOTES.	EET C.	36 FOR EN	ROACHMENT
		3	NEW PEDESTRIAN CROSSWALK SIGN.		LAUREL STREE S.W. BEAVERT	T AND	266 SQUA	RE FEET IN
		2	NEW 3' TALL 18"x24" LIT "THANK YOU, D	, 6333	OFFSITE STREE IRRIGATION SY	STEM	NDSCAPE PL CONSISTING	ANTER AND
-		1	NEW 3' TALL 18"x24" LT "DRIVE THRU"		A PRECAST CO	NCRE	EAT/SCREEN	WALL WITH
	1	B	OUTDOOR SEATING PATIO TABLE WITH NO	_	SHEET C	то :	27" TALL 22	* WIDE
	PUBL	6	UNBRELLA (4 SEATS). OUTDOOR SEATING PATIO TABLE WITH NO	•US	DRIVE-THRU CH UMBRELLA STAN	TWALK	CONCRETE DETAIL "11"	AD WITH SHOWN ON
	IC FH	R AR	PROPERTY LINE. OUTDOOR SEATING PATIO TABLE WITH	(150)	SIMPLIFIED PL DESCRIPTION	OTTAB	LE EASEMEN	T C38.
			VEHICLE DETECTOR LOOP.	۲	REFER TO THE SURVEY CONT SHOWN ON S	ROL F	NDARY MON POINT DESCR	iument and aptions
1			BLACK TRUNCATED DOMES DETECTABLE WARNING STRIP.		NEW CONCRET	E SID	EWALK.	
			VEHICLE OVERHANG (VOH) CONSISTING OF APPROXIMATELY 23,328 SQUARE FEET (25.1%).		PORTABLE TR	SH R	ECEPTACLE CONCRETE	ON A
F	GM		LANDSCAPED PLANTER AND MAINTAIN LANDSCAPED PLANTER AND IRRIGATION SYSTEM ONSITE, INCLUDING AREA UNDER BUILDING ROOF OVERHANG (ROH) AND	 ₹	SLOPES AND	PAD	NOUNT TRA	WSFORMER
			CONCRETE BASE FOR A TOTAL HEIGHT OF 25' TALL		A RUNNING S CROSS SLOPE REFER TO SH	IN E	OF 1:20 (5 XCESS OF	36) OR A 1:50 (2%). ECIFIC
	1		22'-6" TALL FORTURE HEIGHT LIGHT POLE ON TOP OF A 30" TALL 24" DIAMETER	9	ADA ACCESSIB ACCESSIBLE	ATH O	ATH OF TRA	VEL IS NOT LESS
	6	000	DECORPTO INCO INFTAILIED AND MANTAIN					
	046.74		INSERT FOR THE PRE-TREATMENT OF STORMWATER RUNOFF.	VOH	VEHICLE OVER INCLUDING LIC SIGNAGE.	HANG	WITH NO COLES, TREES	S AND



WASHINGTON COUNTY

Dept of Land Use & Transportation Planning and Development Services Current Planning 155 N 1st Avenue, #350-13 Hillsboro, OR 97124 Ph (503) 846-8761 Fax (503) 846-2908 http://www.co.washington.or.us

Request For Statement Of Service Availability (Service Provider Letter)

_	4	

WATER DISTRICT:

FIRE DISTRICT: Tualatin Valley Fire & Rescue V CITY OF:

CLEAN WATER SERVICES (Sanitary Sewer)

Additionally, you'll need our separate, individual request forms titled:

- Clean Water Services (Surface Water Mgmt.)
- Tri-Met
- School
- Sheriff / Police
- **Tualatin Hills Park & Recreation District**

PROPOSED PROJECT NAME IN-N-OUT Burger

PROPOSED DEVELOPMENT ACTION: (DEVELOPMENT REVIEW, SUBDIVISION, MINOR PARTITION, SPECIAL USE)

PRE-APPLICATION DATE 08/10/2020

Service Pro	vider: PLEASE RETURN THIS FORM TO:
COMPANY	IN-N-OUT Burgers, A California Corporatio
CONTACT	Cassie Ruiz
ADDRESS	13502 Hamburger Lane
	Baldwin Park, CA 91706
PHONE	(626) 813-8226

OWNER(S):

NAME	LYNN IRENE ANGE	EL FAMILY LTD PARTNERSHIP
ADDRESS	550 SW PARK AVE	NUE
	PORTLAND, OR	97205
PHONE	(503)407-7707	
Property De	sc.: Tax Map(s)	Lot Number(s): 1S114BC02000, 1S114BC02400
		1S114BC02401, 1S114BC02100

Site Size: 2 243 acres

Sile Address: 10565 & 10505 SW Beaventon Hillsdale Hwy Beaventon OR 97005

Nearest cross street (or directions to site): SW Beaverton Hillsdale Hwy & SW 107th Ave

EXISTING USE: Commercial - Re	staurant PROPOSED USE	Commercial - Restaurant
F RESIDENTIAL	IF INDUSTRIAL/COMMERCIAL: TYPE OF USE Restaurant	IF INSTITUTIONAL
INGLE FAM MULTI-FAM	NO OF SQ FT (GROSS FLOOR AREA) 3,885	NO STUDENTS/EMPLOYEES/MEMBERS

****	*ATTENTION SERVICE PROVIDE	R*****
PLEASE INDICATE THE LEVEL	L OF SERVICE AVAILABLE TO THE SITE (A	DEQUATE OR INADEQUATE).
RETURN THIS COMPLETED F	OPM TO THE ADDI ICANT AS LISTED ADD	
METORIA THIS COMPLETED F	URM TO THE APPLICANT AS LISTED ABO	VE
(D. NOT		
(Do NOT return this form to V	Washington County. The applicant will su	bmit the completed form with
(Do NOT return this form to V their Land Development Appl	Washington County. The applicant will su lication submittal).	bmit the completed form with
(Do NOT return this form to V their Land Development Appl	Washington County. The applicant will su lication submittal).	bmit the completed form with
(Do NOT return this form to V their Land Development Appl	Vashington County. The applicant will su lication submittal).	bmit the completed form with
(Do NOT return this form to V their Land Development Appl SERVICE LEVEL IS ADEQUATE Please indicate what improvements	Vashington County. The applicant will su lication submittal). TO SERVE THE PROPOSED PROJECT. (Use a	ditional sheets if necessary.)
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SIGNATURE

POSITION

DATE

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Exhibt F The state of the s Page 1 of 1

	PRE-APPLIC	ATION DATE.	2020
Dept. of Land Use & Transportation Planning and Development Services	Service Pr APPLICAN	ovider: PLEASE Ri	ETURN THIS FORM TO:
155 N. 1 st Avenue, #350-13	COMPANY	IN-N-OUT Burger	s. A California Corporation
OREGON Hillsboro, OR 97124 Ph (503) 846-8761 Eax (503) 846-2908	CONTACT	Cassie Ruiz	
http://www.co.washington.or.us	ADDRESS	13502 Hamburge	erLane
Request For Statement Of Service		Baldwin Park, CA	91706
Availability THPRD	PHONE:	(626) 813-8226	
	L		
TUALATIN HILLS PARK & REC. DISTRICT	<u>OWNER(S)</u> : NAME:	LYNN IRENE ANGEL	FAMILY LTD PARTNERSHIP
	ADDRESS:	550 SW PARK AVEN	UE
		PORTLAND, OR 9	7205
	PHONE:	(503)407-7707	
	Property Des	c.: Tax Map(s):	Lot Number(s): 1S114BC02000, 1S114BC02
		· · · · · · · · · · · · · · · · · · ·	1S114BC02401, 1S114BC0210
	Site Size: 2.2	43 acres	
	Sile Address:	10565 &10505 SW Beaverte	on Hillsdale Hwy, Beaverton OR 97005
	Nearest cross SW Beaverton	s street (or direction: Hillsdale Hwy & SW 1	s to site): 07th Ave
PROPOSED PROJECT NAME: IN-N-OUT Burger			
PROPOSED DEVELOPMENT ACTION: (DEVELOPMENT REVIEW DEMOLITION OF THE TWO EXISTING RESTAURANT USES ON TH IN-N-OLIT BURGER RESTAURANT WITH DRIVE THROUGH SERVI	V, SUBDIVISION, MINOR F LE PROPERTY AND CE AND OUTDOOR	PARTITION, SPECIAL USE)	F OF A 3,885 SQUARE FOOT
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Exhibit G Page 1 of 2





WASHINGTON COUNTY

Dept, of Land Use & Transportation Planning and Development Services Current Planning 155 N. 1st Avenue, #350-13 Hillsboro, OR 97124 Ph. (503) 846-8761 Fax (503) 846-2908 http://www.co.washington.or.us

Request for Statement of Service Availability (Service Provider Letter)

 \mathbf{N} Washington County Health & Human Services Solid Waste & Recycling Program

Mixed solid waste and recyclables storage requirements apply to new multi-unit and single family attached residential buildings with five or more units and to new commercial, industrial and institutional construction inside the UGB.

This letter serves to comply with the submittal requirements of Washington County CDC §406-7.6.

PRE-APPLICATION DATE: 08/10/2020

COMPANY	 IN-N-OUT Burgers, A California Corporation
CONTACT	Cassie Ruiz
ADDRESS	: 13502 Hamburger Lane
	Baldwin Park. CA 91706
PHONE:	(626) 813-8226

NAME:	LYNN IRENE ANGEL FAMILY LTD PARTNERSHIP			
ADDRESS:	550 SW PARK AV	/ENUE		
	PORTLAND, OF	R 97205		
PHONE:	(503)407-7707			
Property Desc.: Tax Map(s):		Lot Number(s): 1S114BC02000, 1S114BC02400		
		1S114BC02401, 1S114BC02100		
Site Size: 2.	243 acres			
	10565 &10505 SW/B	leaverton Hillsdale Hwy		

Site Address: Beaverton OR 97005

Nearest Cross Street (or directions to site): SW Beaverton Hillsdale Hwy & SW 107th Ave

Applicant: Please include with this form to-scale site plans showing dimensional details and the location of the mixed solid waste and recyclables storage facility, and a site circulation plan showing the proposed path of access to the facility (11" x 17" minimum).

PROPOSED PROJECT NAME: IN-N-OUT Burger

PROPOSED DEVELOPMENT ACTION: (DEVELOPMENT REVIEW, SUBDIVISION, MINOR PARTITION, SPECIAL USE) DEMOLITION OF THE TWO EXISTING RESTAURANT USES ON THE PROPERTY AND THE DEVELOPMENT OF A 3,885 SQUARE FOOT IN-N-OUT BURGER RESTAURANT WITH DRIVE THROUGH SERVICE AND OUTDOOR SEATING							
EXISTING USE: C	ommercial - Restau	rant PROF	POSED USE:	Commercial - Restaurant			
IF RESIDENTIAL: NO. OF DWELLING UNITS: SINGLE FAM	 MULTI-FAM	IF INDUSTRIAL/COMMER TYPE OF USE: Restaurant NO. OF SQ. FT. (GROSS FLOOR ARE	CIAL: IF	F INSTITUTIONAL: 0. SQ. FT 0. STUDENTS/EMPLOYEES/MEMBERS:			
Washington Cour	nty Health & Huma	an Services Solid Waste &	Recycling Pr	rogram Response:			
SIGNATURE: SIGNATURE: SIGNATURE: SIGNATURE: SERVICE LEVEL Please indicate why needed for you to p	IS ADEQUATE TO S	D SERVICE THE PROPOSED PROJ POSITION: Solid Waste POSITION: Solid	ECT. upervisor & Recycling PROJECT. at improvemen itional sheets if r	DATE: 2/11/2022 Its or revisions to the proposal are necessary.)			
SIGNATURE:		POSITION;		DATE:			
Comments:Co	ndtional approval: Minimur	n gate access is 12 ft per Code 406-6.4 e access. If that condition changes the	to allow adequate ad	enclosure would need to be revised meet the code.			

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07/05/16

Exhibit H Page 1 of 1



WASHINGTON COUNTY TRAFFIC IMPACT STATEMENT WAIVER

"STATEMENT OF UNDERSTANDING"

Resolution & Order 86-95 indicates that a Traffic Impact Statement (TIS) is to be prepared for a land use application for a development that would increase traffic by more than 40 ADT. The TIS was created by Resolution & Order 83-219 to ensure that adequate technical information is available to make findings of fact on the transportation development regulations under the Comprehensive Framework Plan.

A TIS prepared by County staff is one option to ensure that the information needed for review of the County's transportation development regulations is provided. As an alternative, applicants may, at their own option, forego a TIS prepared by County staff and provide the necessary technical information and traffic analysis in their application materials. The applicant recognizes that he/she is solely responsible for researching the required transportation requirements, incorporating the requirements into their proposal, and submitting a complete application containing the necessary traffic information. The applicant further recognizes that failure to provide complete and correct information will result in the application being deemed incomplete for review.

I have read and understand the above statement.

Тах Мар:_____

1S114BC02000, 1S114BC02400 Tax Lot(s): <u>1S114BC02401</u>, 1S114BC02100

APPLICANT: In-N-Out Burgers, a California corporation

2/25/22

DATE

Updated 04/16/19



851 SW 6th AVENUE, SUITE 600 PORTLAND, OR 97204 P 503.228.5230 F 503.273.8169

MEMORANDUM

Date:	January 26, 2022	Project #: 25622-4
To:	Jinde Zhu, PE, Stacy Shettler, PE, & Steve Shane, Washington Coun Avi Tayar, PE, Marah Danielson, & Tony Rikli, PE, Oregon Departme Transportation (ODOT) Cassie Ruiz, In-N-Out Burger Mike Robinson, Schwabe	ty ent of
From:	Julia Kuhn, PE & Chris Brehmer, PE	
Project:	In-N-Out Burger – Washington County Site	
Subject:	Access Alternatives Review	

In-N-Out Burger is proposing a new restaurant to the northeast of the SW Beaverton Hillsdale Highway/SW 170th Avenue intersection in Washington County. Today the site is occupied by a 3,555 square foot Hawaiian Time Restaurant and a 6,043 square foot Azteca Restaurant¹, both of which have continued to operate even during COVID-19 restrictions. The two restaurants are served by three accesses on SW Beaverton Hillsdale Highway and one on SW Laurel Street. As proposed, the two restaurants will be replaced by a 3,885 square foot In-N-Out Burger that is served by two accesses on SW Beaverton Hillsdale Highway, including a right-in-right-out access on the west side of the site and a full movement access on the east side of the site. A gated, emergency only access will be provided via SW Laurel Street.

In review of the proposed site plan, ODOT staff has requested an evaluation of alternative access configurations to serve the future In-N-Out Burger site. Accordingly, this memorandum summarizes the following topics:

- Trip generation and assignment for the proposed In-N-Out Burger;
- Calculation of "existing" and background opening year 2023 traffic volumes;
- Comparison of year 2023 intersection operations under the various access options being evaluated;
- Queuing considerations;
- Crash data and analyses relative to the access points;

¹ Existing restaurant sizes provided through the ALTA survey.

- SW Laurel Street considerations;
- On-Site Drive-through queuing and,
- Recommendations.

The alternative access configurations evaluated include:

- Scenario 1 Proposed Site Plan;
- Scenario 2 Inbound East Access under this scenario, outbound left-turns would be allowed onto SW Laurel Street, right-in-right-out movements would be provided at the west access on SW Beaverton-Hillsdale (B-H) Highway, and left-in-right-in movements would be provided at the east access on SW B-H Highway; and;
- Scenario 3 Inbound and Outbound East Access under this scenario, outbound leftturns would be allowed onto SW Laurel Street, right-in-right-out movements would be provided at the west access on SW B-H Highway, and left-in-right-in-right-out movements would be provided at the east access on SW B-H Highway.

Figure 1 illustrates the proposed site plan whereas Figure 2 illustrates the lane configurations assumed under each of the access alternatives considered. As shown in Figure 2, this evaluation considers intersection operations and queuing related to the following locations:

- 1. SW 107th Avenue/SW Laurel Street
- 2. Site Access/SW Laurel Street
- 3. SW 107th Avenue/SW B-H Highway
- 4. Hawaiian Time West Site Access/SW B-H Highway
- 5. Uwajimaya Access/SW B-H Highway (this intersection was analyzed to help inform queuing considerations in center two-way left-turn lane along SW B-H Highway)
- 6. Hawaiian Time East Site Access/SW B-H Highway
- 7. Azteca Site Access/SW B-H Highway

As summarized herein, the operations and queuing associated with the proposed site plan does not represent any material difference between the scenarios considered nor does it materially change the results associated with the background condition. Accordingly, we conclude that the proposed access scenario is appropriate. The remainder of this memorandum presents the findings of the evaluation.





Plan

Exhibit J Page 3 of 143


- Study Intersections # - Site Access



January 2022



Vehicular Trip Generation and Assignment

The change in the estimated site trip generation was calculated based on rates included in the *Trip Generation Manual, 10th Edition* (as published by the Institute of Transportation Engineers, ITE) and a trip generation study performed by Gandddini Group, Inc. on behalf of In-N-Out-Burger². For reference purposes, Table 1 presents the estimated change in vehicular trip generation of the site assuming the two existing restaurants were operating at capacity and/or re-occupied by a similar user. As noted previously, both restaurants have continued to operate, even during COVID-19 restrictions.

Les dues			Total Daily	We	ekday PM Peak H	our
Land Use	TTE Code	Size (sq ft)	Trips	Total Trips	In	Out
		Existing Hawaiiar	n Time Restaurant			
Fast Food	934	3,555	1,674	116	60	56
		Existing	g Azteca			
High Turnover/Sit Down	932	6,043	678	59	37	22
Existing	Site Trips		2,352	175	97	78
		Proposed	l In-N-Out			
Fast Food	In-N-Out Data	3,885	1,894	162	85	77
Change in D	riveway Trips		-458	-13	-12	-1

*Does not include pass-by trips.

As will be discussed later in this memorandum, we obtained traffic counts at the study intersections and access points in September 2021 when businesses were open and schools were in-session. For the purposes of the access analyses, we removed the counted vehicular trips associated with the Azteca and Hawaiian Time restaurants and then added in the new trips that could be generated by In-N-Out Burger. We did not assume the trip generation rates for the two operating restaurants shown in Table 1 in our analysis, rather we used the actual drive way trips.

For ease of review, Table 2 presents the In-N-Out Burger trip generation only.

Table 2. In-N-Out Burger Trip Generation

	(: (ft))	Total Daily Trian	w	/eekday PM Peak Ho	ur
Land Use	Size (sq ft)	Total Daily Trips	Total Trips	In	Out
In-N-Out Burger	3,885	1,894	162	85	77
Pass-By Trips (50%)		928	80	42	38
Pass-	by along B-H (20%)	378	32	17	15
Diverted	from OR 217 (30%)	550	48	25	23
Net New Trips		1,516	130	68	62

² Refer to May 21, 2021 Transportation Memo in Appendix A for further documentation.

The distribution of site-generated trips was estimated based on a review of existing traffic patterns as well as nearby residential and employment areas. Figures 3 – 5 illustrate the estimated trip distribution pattern and assignment of the trips associated with the proposed In-N-Out Burger for the three access scenarios being evaluated. The following assumptions were made of the 50 percent pass-by trips:

- 30 percent were assumed to be diverted from Oregon 217 (thereby evaluated as "new" trips to all study intersections);
- 15 percent of the pass-by trips were assumed to be westbound on B-H Highway; and,
- 5 percent of the pass-by trips were assumed to be eastbound on B-H Highway.

As such, the pass-by trips are effectively reduced to 20 percent when considering the study intersections (i.e., 32 trips of the 162 trips during the weekday PM peak hour).

Operational Standards

The intersection operational analyses presented in this report were conducted using the procedures outlined in the *Highway Capacity Manual*, 6th Edition. Intersection performance was evaluated in comparison to applicable Washington County and ODOT metrics.

Washington County maintains SW 107th Avenue and SW Laurel Road. The County has defined operating standards as a volume-to-capacity (V/C) ratio of no greater than 0.99 assuming a peak hour (60-minute analysis) period.

ODOT maintains the study intersections along B-H Highway. ODOT's mobility target for the study intersections is a V/C no greater than 0.99 during the peak 15-minutes.



Exhibit J Page 7 of 143



Exhibit J Page 8 of 143



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Year 2021 and Year 2023 Background Traffic

Weekday PM peak traffic counts at the study intersections and accesses were collected on September 21, 2021 when schools were in-session and businesses were open and in-restaurant dining was allowed within Washington County. Both restaurants were operating at the time of the counts. These traffic counts were compared to counts recorded in November 2016 as part of the Chick-fil-A Traffic Impact Study as well as to previously collected data available via ODOT's website enabling a comparison of current counts to pre-COVID counts at the same locations. Based on the review of the two data sources, the September 2021 traffic counts were not adjusted further to account for COVID-related traffic adjustments. The 2021 traffic counts and the information used to assess these counts versus pre-COVID conditions are provided in Appendix B.

As noted above, the traffic accessing the existing four site driveways (three for Hawaiian Time and one for Azteca) were collected as part of the 2021 counts. For the purposes of calculating year 2023 traffic volumes for use in the access evaluation, the traffic measured using the four site driveways was removed from the traffic volumes and the resultant volumes were increased by two percent per year.

Figure 6 reflects the year 2023 background traffic volumes assuming the existing restaurants are still in operation (at the level of site trips measured in September 2021). This figure also reflects the existing lane configurations and traffic control devices as well as the projected intersection operations at the intersections and access points. As shown in the figure, all study intersections are anticipated to meet the mobility targets assuming year 2023 weekday PM peak hour conditions but without occupancy of the In-N-Out Burger.

Table 3 provides a summary of westbound and southbound approach 95th percentile queue estimates associated with the SW 107th Avenue/SW B-H Highway traffic signal as they relate to both the site access points on the highway and the SW Laurel Street/SW 107th Avenue intersection. This information is used as a basis of comparison for the access alternative evaluation. As shown, with the anticipated operations of the SW 107th Avenue/SW B-H Highway intersection, southbound queues are anticipated to extend nearly to the SW Laurel Street/SW 107th Avenue intersection. The westbound through queues at the intersection are also anticipated to extend beyond both the existing Hawaiian Time accesses but not to the existing Azteca access.

Intersection movement	Storage Provided (feet)	Estimated Queue (feet)	Storage Adequate?
Southbound Right-turn	105	125	Extends beyond striped storage
Southbound Left-Through	400	325	Yes
Westbound Through/Right	195*	400	Extends beyond existing Access
Westbound Through	195*	400	
Westbound Left-turn	140	25	Yes

Table 3. Estimated 95 th Percentile Queues at SW 107	^h Avenue/SW B-H Highway (2023 Background PM)
-----------------------------------------------------------------	---------------------------------------------------------

*Reflects distance to west site access

Year 2023 Intersection Operations Comparison

Based on the traffic volumes reflected in Figure 6, "total traffic" volumes were calculated for each of the access scenarios assuming occupancy of the In-N-Out Burger and using the trip generation rates reflected in Table 2. The volumes and intersection operations are reflected in Figures 7 – 9. As shown, all study intersections are anticipated to continue to satisfy the respective ODOT and Washington County mobility targets. *Appendix "C" contains the operations analysis worksheets.*



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Queuing Considerations

Table 4 provides a summary of westbound and southbound approach 95th percentile queue estimates associated with the SW 107th Avenue/SW B-H Highway traffic signal as they relate to both the site access points on the highway as well as the proximity of the SW Laurel Street/SW 107th Avenue intersection to the signal. This information is provided for each of the access scenarios considered. In reviewing the queuing estimates its also helpful to note that the proposed east site access on SW B-H Highway is approximately 185 feet to the east of the west site access. Additionally, for ease of review, the queuing information presented in Table 3 is also shown in Table 4 to assess the changes between the background conditions and the various access scenarios being considered. As shown, the signalized intersection queuing results are not materially different between the background and each scenario considered.

Intersection movement	Storage Provided (feet)	Estimated Queue (feet)	Storage Adequate?
	2023 Backg	ground	
Southbound Right-turn	105	125	Extends beyond striped storage
Southbound Left-Through	400	325	Yes
Westbound Through/Right	195*	400	E to de la condition d'autorité
Westbound Through	195*	400	Extends beyond West Access
Westbound Left-turn	140	25	Yes
	Scenario 1 - Propo	osed Site Plan	
Southbound Right-turn	105	125	Extends beyond striped storage
Southbound Left-Through	400	325	Yes
Westbound Through/Right	195*	400	
Westbound Through	195*	425	Extends beyond west Access
Westbound Left-turn	140	25	Yes
	Scenario 2 - Inbour	nd East Access	
Southbound Right-turn	105	125	Extends beyond striped storage
Southbound Left-Through	400	350	Yes
Westbound Through/Right	195*	425	Extends howend West Assess
Westbound Through	195*	425	Extends beyond west Access
Westbound Left-turn	140	25	Yes
5	Scenario 3 - Inbound and (Outbound East Access	
Southbound Right-turn	105	125	Extends beyond striped storage
Southbound Left-Through	400	350	Yes
Westbound Through/Right	195*	425	Extends howend West Assess
Westbound Through	195*	425	Exterios Deyono west Access
Westbound Left-turn	140	25	Yes

Table 4. Comparison of Estimated 95th Percentile Queues at SW 107th Avenue/SW B-H Highway (2023Total Traffic PM Peak Hour)

*Reflects distance to west site access

In addition to the queuing associated with the traffic signal, we also evaluated the potential for queuing in the center two-way left-turn lane (TWLTL) on SW B-H Highway to the east of the SW 107th Avenue signal as it relates to the site access points. The accesses are spaced at the approximate distances shown below to the east of the signal:

- Existing west site access (Intersection #4) = approximately 195 feet to the east of the signal on the northside of SW B-H Highway;
- Uwajimaya Access (Intersection #5) = approximately 225 feet to the east of the signal on the southside of SW B-H Highway;
- Existing central site access (existing east Hawaiian Time access, Intersection #6) = approximately 280 feet to the east of the signal on the northside of SW B-H Highway (this access will be eliminated as part of site redevelopment); and,
- Existing east (existing Azteca, Intersection #6) site access = approximately 445 feet to the east of the signal on the northside of SW B-H Highway.

In particular, we examined the queuing between the Uwajimaya access and the east site access under the three scenarios being considered. Note the westbound left-turn queue reported at the Uwajimaya access represents the maximum queue observed, the 95th percentile westbound left-turn queue is 50 feet (two vehicles). The results of this analysis are shown in Table 5.

Access	Distance from Signal	Estimated Queue in TWLTL	Queuing Interaction between two Accesses?
	2023 without Site Redev	elopment	
Uwajimaya Westbound Left	225	75*	75 feet provided
East Site Access Eastbound Left	400	25	between queues
	Scenario 1 - Proposed S	ite Plan	
Uwajimaya Westbound Left	225	75*	25 feet provided
East Site Access Eastbound Left	400	75	between queues
	Scenario 2 - Inbound Eas	st Access	
Uwajimaya Westbound Left	225	75*	25 feet provided
East Site Access Eastbound Left	400	75	between queues
Scena	rio 3 - Inbound and Outbo	ound East Access	
Uwajimaya Westbound Left	225	75*	25 feet provided
East Site Access Eastbound Left	400	75	between queues

Table 5. Comparison of Estimated 95th Percentile Queues on SW B-H Highway

*75 feet (three vehicles) reflects maximum queue observed, 95th percentile queue is 50 feet (two vehicles)

As shown in the table, the Uwajimaya access on the south side of the highway and the East In-N-Out Burger Access on the north side of the highway are both anticipated to have up to approximately 3 vehicles (75 feet) in queue. With 175 feet between the two accesses, this leaves the potential for approximately one car length between the back of queues should they occur simultaneously as graphically represented in Exhibit 1.

Exhibit 1: Estimated 95th Percentile Queues on SW B-H Highway



Aerial Image Source: Google Earth

Crash Data and Analyses

ODOT provided crash records for the period from January 1, 2015 through December 31, 2019. The crash type classifications at the intersections and the site access points were reviewed to assess whether crash patterns might be identifiable and to provide considerations related to the access scenarios being evaluated. Table 6 shows the reported crashes by type and severity. *Appendix "D" contains the detailed crash summary worksheets*.

			Collisio	n Type			Seve	erity	Total
Study Intersection	Rear-end	Turning	Angle	Fixed	Ped	Side- Swipe	PDO ¹	Injury	Crashes
SW Laurel Street/SW 107 th Avenue	0	0	0	0	0	0	0	0	0
Site Access/SW Laurel Street	0	0	0	0	0	0	0	0	0
SW 107 th Avenue/SW B-H Highway	6	13	0	0	2	1	6	16	22
Uwajimaya Access/SW B-H Highway	0	6	0	0	0	0	3	3	6
West Site (Hawaiian Time) Access/ SW B-H Highway	0	0	0	0	0	0	0	0	0
East Site (Hawaiian Time) Access/ SW B-H Highway	0	1	0	0	0	0	0	1	1
Azteca Site Access/SW B-H Highway	0	1	0	0	0	0	0	1	1

Table 6. Intersection Crash History (January 1, 2015 through December 31, 2019)

¹ PDO – Property damage only

Intersection crash rates calculated and compared to statewide crash rate performance thresholds. For this analysis, the critical crash rate was calculated and compared to the 90th percentile crash rates for urban intersections by traffic control and 3 versus 4-legged configurations (as appropriate). This is shown in Table 7.

Study Intersection	Total Crashes	Observed Crash Rate	90 th Percentile Crash Rate by Land Type and Traffic Control	Observed Crash Rate>Critical Crash Rate?
SW Laurel Street/SW 107 th Avenue	0	0.00	0.408	No
Site Access/SW Laurel Street	0	0.00	0.293	No
SW 107 th Avenue/SW B-H Highway	22	0.45	0.860	No
Uwajimaya Access/SW B-H Highway	6	0.13	0.293	No
West Site Access (Hawaiian Time)/SW B-H Highway	0	0.00	0.293	No
East Site Access (Hawaiian Time)/SW B-H Highway	1	0.02	0.293	No
Azteca Site Access/SW B-H Highway	1	0.02	0.293	No

Table 7. Intersection Crash Rate Assessment

Table 7 shows that the intersection crash rates are below the 90th percentile crash rates.

Washington County maintains a database of intersection crashes and ranks the listing on a biennial cycle. A review of the Washington County Safety Priority Index System (SPIS, 2016 – 2018) list revealed that the SW 107th Avenue/SW Beaverton-Hillsdale is ranked 91st of 370 intersections ranked and that no specific actions have been identified to suggest changes to the intersection.

Based on the available ODOT crash data and Washington County SPIS data, no safety-based mitigations are recommended as part of the site re-occupancy and/or the access scenario evaluation.

SW Laurel Street Considerations

A field review revealed that landscaping and shrubbery have the potential to limit sight lines for a westbound motorist on SW Laurel Street facing north (right) or south (left). Exhibits 2 and 3 show this intersection from the westbound approach. Vehicles at the westbound approach today pull up beyond the stop sign to see around existing landscaping. Regardless of the proposed site redevelopment, the landscaping should be appropriately maintained at this intersection to provide adequate intersection sight distance.

Exhibit 2. Looking North at the Intersection of SW Laurel Street and SW 107th Avenue



Exhibit 3. Looking North at the Intersection of SW Laurel Street and SW 107th Avenue



On-Site Drive Through Queuing

On behalf of In-N-Out Burger, the Gandddini Group, Inc. also measured on-site queuing associated with the drive-through facilities at nine In-N-Out Burger restaurants in California and Texas. The results are reflected in Table 8 and are further documented in Appendix A.

City	State	Size (sq ft)	Drive Through Capacity (Vehicles)	Weekday Mid-day Max (Vehicles)	Weekday Mid-day Ave (Vehicles)	Weekday PM Max (Vehicles)	Weekday PM Ave (Vehicles)	Saturday Mid-day Max (Vehicles)	Saturday Mid-day Ave (Vehicles)
Fort Worth	тх	3,750	21	14	12	17	13	15	13
Redwood City	CA	3,750	14	n/a	n/a	16	15	21	20
Rocklin	CA	3,750	13	n/a	n/a	12	8	14	12
Vacaville	CA	3,750	12	n/a	n/a	18	14	29	23
Fairfield	CA	3,750	14	n/a	n/a	17	12	23	17
Long Beach	CA	3,600	16	11	15	12	7	16	13
Los Angeles	CA	3,800	12	20	22	20	16	23	20
Corona	CA	Not Available	14	15	18	24	18	24	20
Highland	СА	Not Available	15	16	18	21	18	22	20
Aver	age	3,736	15	15	17	17	13	21	18
Maxii	mum	3,750	21	20	22	24	18	29	23

Table 8. In-N-Out Burger Drive-Through Queuing Data

As shown in the table, the average maximum queue was 21 vehicles (occurring midday Saturday) with the maximum observed queue at 29 vehicles (also occurred on a Saturday). We note that the Saturday mid-day queue estimate for Vacaville is considerably higher than any other site or time period analyzed.

The proposed site has been designed to maximize on-site queueing space available for customers using the drive through. Two order lines are provided, with the drive through queue merging to one lane before the pick-up window. The drive through is expected to store approximately 24 vehicles within the dedicated drive-through area on-site based on the size and spacing of typical customer vehicles (refer to Figure 2). The results in Table 8 support the on-site queue drive through storage proposed.

Additional temporary queuing area is available on site and drive through queue lines can be provided within the parking area by In-N-Out Burger Associates if needed. It can be expected that opening period peak queues will initially exceed the 24 designated drive-through spaces. Additional assessment of queue storage needs and opportunities will be addressed through a Traffic Management Plan to be prepared for the site (refer to May 2021 memorandum in Appendix A for further details).

Conclusions from Access Evaluation

As discussed above, the operations and queuing associated with the proposed site plan does not represent any material difference between the scenarios considered nor does it materially change the results associated with the background condition. Accordingly, we conclude that the proposed access scenario is appropriate.

Please let us know if you need any additional information as you review the information presented herein.

LIST OF APPENDICES

- A. May 21, 2021 Transportation Memo
- B. Existing Traffic Counts and COVID-Adjustment Calculations
- C. 2023 Intersection Operations
- D. Crash Data

Appendix A May 21, 2021 Transportation Memo



P 503.228.5230 F 503.273.8169

MEMORANDUM

Date:	May 21, 2021 Project #: 25622-4
To:	Jinde Zhu, PE, Washington County Jabra Khasho, PE, City of Beaverton Avi Tayar, PE & Marcela Rodriguez, PE, Oregon Department of Transportation (ODOT) Cassie Yee, In-N-Out Burger
From:	Julia Kuhn, PE & Chris Brehmer, PE
Project:	In-N-Out Burger – Washington County Site
Subject:	Transportation Memo

In-N-Out Burger is proposing a new restaurant to the northeast of the SW Beaverton Hillsdale Highway/SW 170th Avenue intersection in Washington County. Today the site is occupied by a 3,555 square foot Hawaiian Time Restaurant and a 6,043 square foot Azteca Restaurant¹. The two restaurants are served by three accesses on SW Beaverton Hillsdale Highway and one on SW Laurel Road. As proposed, the two restaurants will be replaced by a 3,885 square foot In-N-Out Burger that is served by two accesses on SW Beaverton Hillsdale Highway, including a right-in-right-out access on the west side of the site and a full movement access on the east side of the site. A gated, emergency only access will be provided via SW Laurel Road.

Based on the change in vehicular trip-making, the redevelopment of the site does not trigger the preparation of an Access Report per Washington County guidelines nor does it meet the traffic volumebased change of use criteria established by Oregon Department of Transportation (ODOT) guidelines that would require preparation of a Traffic Impact Study. To inform the site plan application, this memorandum summarizes the change in vehicular trip-making associated with site redevelopment as well as transportation-related recommendations.

¹ Existing restaurant sizes provided through the ALTA survey.

DESCRIPTION OF THE PROPOSED REDEVELOPMENT

Upon redevelopment, the site will be rebuilt to include a 3,885 square foot In-N-Out Burger with indoor and outdoor seating. A drive through lane will be provided on the north side of the building with the capacity to queue 32 vehicles during "typical" conditions and an additional 23 vehicles during high demand periods (representing a 55-car on-site drive through storage area²). In addition, 76 vehicular parking spaces will be provided to the east and north of the building. The three existing SW Beaverton Hillsdale Highway accesses will be replaced with one right-in-right-out access near the western boundary of the site and one full access on the eastern boundary of the site. The SW Laurel access will be converted to a gated access that can only be used by emergency vehicles.

As part of a multi-store strategy in the Portland Metro area, occupancy of the new restaurant is anticipated in 2022. The site plan is attached to this memo.

Trip Generation Estimates

The change in the estimated site trip generation was calculated based on rates included in the *Trip Generation Manual, 10th Edition* (as published by the Institute of Transportation Engineers, ITE) and a trip generation study performed by Gandddini Group, Inc. on behalf of In-N-Out-Burger.

Table 1 presents the anticipated change in vehicular trip generation using data presented from In-N-Out Burger. In addition, as shown in the table, the restaurants are not during the weekday AM peak hour³ so no change in weekday AM peak hour trips are anticipated. The In-N-Out rates shown are based on a comparison of the measured vehicular trip making at seven sites in California and Texas. A summary included in Appendix A. *Note that Table 1 does not account for any pass-by trips associated with the restaurants as the analyses focused solely on the change in total site access trips.*

² There is room on-site to provide 23 additional queue spaces in a second temporary queue lane during opening conditions.

³ <u>http://www.hawaiiantime.com/locations-1</u> and https://www.aztecamex.com/locations/

Tuble I. Anticipated Site Trip deneration change

Land Has		(in (an fa)	Total Daily	Weekday PM Peak Hour						
Land Ose	TTE Code	Size (sq it)	Trips	Total Trips	In	Out				
	Ex	isting Hawaiiar	n Time Restaura	ant						
Fast Food	934	3,555	1,674	116	60	56				
		Existing	g Azteca							
High Turnover/Sit Down	932	6,043	678	59	37	22				
Existing	Site Trips		2,352	175	97	78				
		Proposed	l In-N-Out							
Fast Food	INO Data	3,885	1,894	162	85	77				
Change in D	riveway Trips		-458	-13	-12	-1				

*Does not include pass-by trips.

As shown, the total trips (not accounting for any pass-by trip making) is anticipated to decrease on a daily and weekday PM peak hour basis. With the revised site plan, all trips will enter/exit the site via SW Beaverton Hillsdale Highway, which carries more than 2,700 vehicles during the weekday PM peak hour and more than 30,000 vehicles per day.

For a facility carrying this level of traffic, Washington County's Resolution and Order 86-95 requires preparation of an access report associated with an increase of 500 or more daily trips and/or 10 percent daily trip increase on an adjacent roadway or intersection. Based on a decrease in trip-making, the need for an Access Report is not triggered by site redevelopment.

Further, Oregon Administrative Rule (OAR) 734-051-3020⁴ establishes the trip generation thresholds associated with ODOT's change of use. These include:

2) Changes of Use Requiring an Application for State Highway Approach. Except as provided under section (5) of this rule, a new application is required for a change of use when any one of the following:

(a) The number of peak hour trips increases by fifty (50) trips or more from that of the property's prior use and the increase represents a twenty (20) percent or greater increase in the number of peak hour trips from that of the property's prior use; or

(b) The average daily trips increases by five hundred (500) trips or more from that of the property's prior use and the increase represents a twenty (20) percent or greater increase in the average daily trips from that of the property's prior use; or

⁴ OAR 734-051-3020 - Change of Use of a Private Connection (2014) (public.law)

(c) The daily use of a connection increases by ten (10) or more vehicles with a gross vehicle weight rating of twenty-six thousand (26,000) pounds or greater; or

(d) ODOT demonstrates that safety or operational concerns related to the connection are occurring as identified in OAR 734-051-4020 (Standards and Criteria for Approval of Private Approaches)(3); or

(e) The connection does not meet the stopping sight distance standards, as measured in feet, of ten (10) times the speed limit established in ORS 811.111 (Violating a speed limit) or the designated speed posted under 810.180 (Designation of maximum speeds) for the highway as measured in miles per hour, or ten (10) times the 85th percentile speed of the highway where the 85th percentile speed is higher or lower than the speed limit established in 811.111 (Violating a speed limit) or the designated speed posted under 810.180 (Designation of maximum speeds).

As noted in Table 1, the redevelopment of the two restaurants as one In-N-Out Burger would result in a decrease in trip-making associated with the two properties. Further, the redevelopment is not anticipated to increase large truck trips to the property (instead, it is possible a reduction could be realized recognizing deliveries to a single restaurant should be fewer in number than the potential deliveries associated with two different restaurants with different supply vendors). As such, we conclude that ODOT's trip generation thresholds are not met per the change in use policy. Further, preliminary review suggests that adequate stopping sight distance should be possible to achieve for the proposed right-turn only west access and the full movement east access per ODOT's Change of Use criteria (e) above.

TRAFFIC MANAGEMENT PLAN

In-N-Out Burger opens its stores with a carefully crafted Traffic Management Plan (TMP) specific to the surrounding street network, the adjacent land uses, the number of stores in the market, and collaboration with agency staff and emergency service providers. These TMPs are prepared in detail at the time in which opening is anticipated to be sure that they reflect the conditions anticipated when the store will be opened. In-N-Out Burger brings in their "all-star" team to open stores. This team's responsibilities solely lie in traveling to new stores to staff operations during opening conditions and to then train the local staff that will take over once it is appropriate to do so for the market. Off-site traffic management is handled by licensed traffic management firms and/or law enforcement personnel retained by In-N-Out Burger to facilitate opening period operations.

Based on In-N-Out Burger's experience at others stores as well as our experience in developing TMPs for other clients, we propose to address opening period conditions using a Performance Based TMP approach. Specific transportation management actions will be identified for each of the performance metrics and would include specific tactical measures to be implemented by the designated professional traffic control firm, law enforcement personnel or other party identified in the plan.

We propose that the County consider imposing conditions of approval related to the preparation and implementation of a TMP for the site. The County could consider condition language similar to that currently being refined for the proposed City of Hillsboro In-N-Out Burger site. Using key aspects of the draft condition Hillsboro site condition as a template, the condition language might read:

- 1. Six months prior to issuance of the certificate of occupancy, the Applicant shall develop and submit a performance-based Traffic Management Plan (TMP) to the Washington County Department of Land Use and Transportation. This TMP shall define performance metrics, management actions, and corresponding triggers related to on-site and access operations and specify a tiered traffic management system that addresses a range of vehicular traffic demands, including opening conditions. The performance metrics shall be defined within the TMP through coordination with Washington County, the Oregon Department of Transportation (ODOT), and City of Beaverton staff to enable evaluation of the objective of ensuring that motor vehicles entering and exiting the site do not queue onto Highway 217, Beaverton-Hillsdale Highway, SW 107th Avenue, or SW Laurel Street. The TMP shall consist of traffic control, emergency vehicle accessibility, communication protocols, coordination with emergency responders, permits, the frequency of the traffic observations during operations, metrics on which TMP tier to implement based on the most recent traffic observation, and other needs to address the safety of the adjacent and nearby public roadways with the Washington County, City and ODOT consultation. The TMP shall cover SW Beaverton Hillsdale Highway (SW Lombard Avenue to SW 91st Avenue), SW 107th Avenue (SW Canyon Road to SW Beaverton-Hillsdale Highway), SW Canyon Road (Highway 217 to SW 91st Avenue), and Highway 217 (Walker Road to Denney Road). Compliance to be verified by Washington County Department of Land Use and Transportation.
- 2. Prior to issuance of the Certificate of Occupancy, the applicant shall obtain approval of the performance-based Traffic Management Plan (TMP) from the Washington County Department of Land Use and Transportation. In addition to the County-approved TMP, the applicant shall provide documentation of purchase/renting of temporary traffic control devices and contracts executed with a traffic control contractor to implement the TMP. Compliance to be verified by the Washington County Department of Land Use and Transportation.
- 3. Prior to issuance of the Certificate of Occupancy, the applicant shall implement the County-approved performance-based Traffic Management Plan (TMP).

RECOMMENDATIONS

Subject to approval by the Washington County, the primary recommendations of our review of site redevelopment are summarized below.

- Six months prior to issuance of the certificate of occupancy, the Applicant shall develop and submit a performance-based Traffic Management Plan (TMP) to Washington County. This TMP shall define performance metrics, management actions, and corresponding triggers related to on-site and access operations and specify a tiered traffic management system that addresses a range of vehicular traffic demands, including opening conditions. The performance metrics shall be defined within the TMP through coordination with the Washington County, the Oregon Department of Transportation (ODOT), and City of Beaverton staff.
- Prior to issuance of the Certificate of Occupancy, the applicant shall obtain approval of and subsequently implement the County-approved performance-based TMP.
- Site landscaping, above-ground utilities, and site signage should be located and maintained such that they provide minimum required sight lines within the site as well as at the site driveway on SW Laurel Road per applicable Washington County requirements and on SW Beaverton-Hillsdale Highway per applicable Oregon Department of Transportation requirements.

Please let us know if you have any questions regarding our analyses or findings.

LIST OF APPENDICES

A. Trip Generation Data



transportation • noise • air quality | GANDDINI GROUP

TECHNCIAL MEMORANDUM

TO:	Ms. Cassie Yee, Project Manager IN-N-OUT BURGER
FROM:	Giancarlo Ganddini, Principal Traffic Engineer GANDDINI GROUP, INC.
DATE:	September 14, 2020
SUBJECT:	In-N-Out Trip Generation Study (GGI Project No. 19276)

The purpose of this trip generation study is to determine trip generation rates specific to In-N-Out restaurants and to provide a recommended storage length for the drive-through lane.

TRIP GENERATION RATE CALCULATIONS

To determine a trip generation rate specific to In-N-Out fast-food restaurants, a new trip count survey was conducted in July 2020 at an In-N-Out in Fort Worth, Texas as shown in Figure 1. The new trip count survey data was combined with other historic trip count survey data previously collected at various locations in Northern and Southern California to derive the average trip generation rates. These restaurant locations were selected as survey sites because they are generally comparable to the proposed project in terms of the building size, site configuration, and typical operations. In total, the survey sites used as the basis for calculating average trip generation rates include the following seven existing In-N-Out restaurant locations:

- Fort Worth, TX 4620 South Hulen Street, Fort Worth, TX 76132
- Redwood City, CA 949 Veterans Boulevard, Redwood City, CA 94063
- Rocklin, CA 5490 Crossings Drive, Rocklin, CA 95677
- Vacaville, CA 170 Nut Tree Parkway, Vacaville, CA 95687
- Fairfield, CA 1364 Holiday Lane, Fairfield, CA 94534
- Long Beach, CA 6391 East Pacific Coast Highway, Long Beach, CA 90815
- Los Angeles, CA 9149 South Sepulveda Boulevard, CA 90045

The new trip generation surveys were collected one hour before and one hour after store hours of operation (9:30 AM - 2:00 AM) on a Thursday and Saturday. The peak hour trip generation data used in this analysis has been taken from the highest hour within the weekday PM peak period (4:00 PM to 7:00 PM) and Saturday mid-day peak period (11:00 PM to 4:00 PM). The weekday PM peak hour was observed to occur from 5:45 PM to 6:45 PM and the Saturday mid-day peak hour was observed to occur from 12:15 PM to 1:15 PM. AM peak period data are not presented because In-N-Out restaurants do not serve breakfast and will not be operational during the typical AM commute peak period from 7:00 AM - 9:00 AM. Although the new trip count survey was conducted during the COVID-19 pandemic, the trip count results are within the range of trips observed by the historical trip counts at other locations prior to the pandemic. Detailed traffic count worksheets and trip generation calculations are contained in Appendix A.

Table 2 summarizes the In-N-Out trip generation survey data. As shown in Table 2, the surveyed In-N-Out trip rates are higher than standard trip rates for "fast-food restaurant with drive through window" that are published in the Institute of Transportation Engineer (ITE) <u>Trip Generation Manual</u> (10th Edition, 2017), with

Ms. Cassie Yee, Project Manager IN-N-OUT BURGER September 14, 2020

exception of the Saturday daily rate. Therefore, it is more conservative to utilize the surveyed In-N-Out trip rates to estimate the proposed project trip generation forecasts, with exception of the Saturday daily rate that is slightly lower than the ITE Saturday daily trip rate.

DRIVE-THROUGH LANE QUEUEING ASSESSMENT

The drive-through lane queue assessment provides a recommended storage capacity for the drive through lane based on the average peak queue lengths observed from new and historic surveys of comparable In-N-Out sites. In addition to the seven locations used for the trip generation surveys, historic drive through queue data was available at the following two additional locations and included in this analysis for a total of nine survey locations for the drive through queueing assessment:

- Corona, CA 2305 Compton Avenue, Corona, CA 92881
- Highland, CA 28009 Greenspot Road, Highland, CA 92346

The drive-through vehicular queues were observed and documented in 15-minute intervals from 5:00 PM to 7:00 PM on a typical weekday and from 12:00 PM to 2:00 PM on a typical Saturday; based on the trip generation data, these survey windows capture the periods of peak demand. Appendix A includes the drive-through lane queueing survey data.

Table 2 summarizes the peak drive-through lane queue lengths observed at the nine In-N-Out survey locations. As shown in Table 2, the average peak drive through queue length is 15 vehicles on a weekday and 16 vehicles on Saturday.

Based on the surveyed average peak queue length, a minimum storage capacity of 16 vehicles for the drivethrough lane is recommended for the proposed In-N-Out projects to accommodate the average queue length during peak lunch and dinner periods. As shown on Figure 2, the drive through queue may occasionally exceed the drive through lane storage capacity by 1-3 vehicles during the weekday and Saturday peak lunch hours; however, more than adequate drive through storage capacity would be provided during the remaining nonpeak hours of operation. It is recommended that the proposed project utilize a floating menu/ordering staff during the peak periods to help minimize the drive-through queue.

CONCLUSION

It is recommended that In-N-Out projects utilize the surveyed In-N-Out trip rates to estimate the proposed project trip generation forecasts, with exception of the Saturday daily rate that is slightly lower than the ITE Saturday daily trip rate.

A minimum storage capacity of 16 vehicles for the drive-through lane is recommended for In-N-Out projects. It is also recommended that the proposed project utilize a floating menu/ordering staff during the peak periods to help minimize the drive-through queue.

Should you have any questions or if we can be of further assistance, please do not hesitate to call at (714) 795-3100.



 Table 1

 In-N-Out Site Survey and Average Trip Generation Rate Calculations

	Surveyed Trips														
	Survey Site Location		We	ekday PM F	Peak	Weekday	Sat	urday Mid-I	Day	Saturday					
No.	City	Size ¹	In	Out	Total	Daily	In	Out	Total	Daily					
1	Fort Worth, TX ²	3.750 TSF	86	83	169	1,984	112	102	214	2,046					
2	Redwood City, CA ³	3.750 TSF	66	75	141	2,225	152	149	301	2,929					
3	Rocklin, CA ³	3.750 TSF	84	75	159	1,720	88	96	184	1,761					
4	Vacaville, CA ³	3.750 TSF	87	65	152	1,879	94	103	197	2,244					
5	Fairfield, CA ³	3.750 TSF	75	57	132	1,662	105	103	208	2,081					
6	Long Beach, CA ³	3.600 TSF	69	73	142	n/a	121	114	235	n/a					
7	Los Angeles, CA ³	3.800 TSF	127	111	238	n/a	224	200	424	n/a					
Aver	age Surveyed Trips	3.736 TSF	85	77	162	1,894	128	124	252	2,212					

			Surveyed	Site Trip R	ates					
	Survey Site Location		Wee	ekday PM F	Peak	Weekday	Satu	urday Mid-I	Day	Saturday
No.	City	Size ¹	In	Out	Total	Daily	In	Out	Total	Daily
1	Fort Worth, TX ²	3.750 TSF	22.93	22.13	45.06	529.07	29.87	27.20	57.07	545.60
2	Redwood City, CA ³	3.750 TSF	17.60	20.00	37.60	593.33	40.53	39.73	80.26	781.07
3	Rocklin, CA ³	3.750 TSF	22.40	20.00	42.40	458.67	23.47	25.60	49.07	469.60
4	Vacaville, CA ³	3.750 TSF	23.20	17.33	40.53	501.07	25.07	27.47	52.54	598.40
5	Fairfield, CA ³	3.750 TSF	20.00	15.20	35.20	443.20	28.00	27.47	55.47	554.93
6	Long Beach, CA ³	3.600 TSF	19.17	20.28	39.45	n/a	33.61	31.67	65.28	n/a
7	Los Angeles, CA ³	3.800 TSF	33.42	29.21	62.63	n/a	58.95	52.63	111.58	n/a
Aver	age Surveyed Trip Rates	3.736 TSF	22.67	20.59	43.26	505.07	34.21	33.11	67.32	589.92
Typic Drive	al Fast-Food Restaurant with e-Thru Window (ITE 934) ⁴	TSF	16.99	15.68	32.67	470.95	26.47	28.68	55.15	616.12
Diffe	rence		+5.68	+4.91	+10.59	+34.12	+7.74	+4.43	+12.17	-26.20
Perce	ent Difference		33%	31%	32%	7%	29%	15%	22%	-4%

Notes:

(1) TSF = Thousand Square Feet

(2) 2020 survey conducted at In-N-Out located at 4620 South Hulen Street, Fort Worth, TX.

(3) Historic survey conducted at various In-N-Out locations in California.

(4) ITE = Institute of Transportation Engineers, Trip Generation Manual, 10th Edition, 2017; XXX = Land Use Code

n/a = not available



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Table 2
Survey Site Drive-Through Queue Summary

									Peak Numbe	er of Vehicles	in Drive Th	rough Queue								
	1 - Fort V	Worth, TX	2 - Redv	vood City	3 - R	ocklin	4 - Va	caville	5 - Fa	irfield	6 - Lon	g Beach	7 - Los	Angeles	8 - C	orona	9 - Hi	ghland	Ave	rage
Time Period	Weekday	Saturday	Weekday	Saturday	Weekday	Saturday	Weekday	Saturday	Weekday	Saturday	Weekday	Saturday	Weekday	Saturday	Weekday	Saturday	Weekday	Saturday	Weekday	Saturday
12:00 PM - 12:15 PM	11	12		18		10		20		13	15	16	20	20	15	13	18	16	16	15
12:15 PM - 12:30 PM	12	10		21		13		19		18	15	14	18	16	14	16	18	20	15	16
12:30 PM - 12:45 PM	14	10		20		12		15		17	13	16	21	20	13	20	17	20	16	17
12:45 PM - 1:00 PM	14	13		18		11		23		18	8	10	19	20	14	22	18	21	15	17
1:00 PM - 1:15 PM	10	14		21		12		22		23	12	15	22	23	16	22	18	18	16	19
1:15 PM - 1:30 PM	12	15		20		14		28		17	13	16	21	22	18	23	14	20	16	19
1:30 PM - 1:45 PM	13	14		19		13		27		15	8	10	20	20	17	24	13	20	14	18
1:45 PM - 2:00 PM	11	15		21		12		29		18	7	9	20	20	14	23	13	22	13	19
4:00 PM - 4:15 PM			14		5		11		5		6	8	17	10	15	18	15	14	11	13
4:15 PM - 4:30 PM			16		8		14		8		5	10	15	14	11	16	16	15	12	14
4:30 PM - 4:45 PM			16		7		16		9		3	8	12	18	9	16	14	14	11	14
4:45 PM - 5:00 PM			15		6		17		16		6	5	10	8	15	16	17	15	13	11
5:00 PM - 5:15 PM	12	15	14		8		13		17		5	9	9	8	18	23	19	15	13	14
5:15 PM - 5:30 PM	11	15	14		9		11		16		7	10	14	9	21	24	19	18	14	15
5:30 PM - 5:45 PM	11	15	15		11		13		8		7	10	17	20	16	24	18	22	13	18
5:45 PM - 6:00 PM	16	17	15		12		18		17		5	9	19	19	18	23	21	17	16	17
6:00 PM - 6:15 PM	16	22									12	13	20	20	23	18	21	23	18	19
6:15 PM - 6:30 PM	17	20									7	9	19	19	24	23	19	19	17	18
6:30 PM - 6:45 PM	10	16									10	10	20	20	24	23	18	19	16	18
6:45 PM - 7:00 PM	13	13									12	14	18	18	23	20	17	19	17	17
Maximum	17	22	16	21	12	14	18	29	17	23	15	16	22	23	24	24	21	23	18	19
85th Percentile	15.5	16.8	16.0	21.0	10.9	13.0	17.0	28.0	17.0	18.0	13.0	15.2	20.2	20.0	23.0	23.2	19.0	21.2	16.2	19.0
Average	12.7	14.8	14.9	19.8	8.3	12.1	14.1	22.9	12.0	17.4	8.8	11.1	17.6	17.2	16.9	20.4	17.2	18.4	14.6	16.4



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Figure 1 Survey Site Location - 4620 South Hulen Street, Fort Worth, TX

In-N-Out Trip Generation Study 19276

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Time of Day

Figure 2 Average Drive-Through Queue

In-N-Out Trip Generation Study 19276

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APPENDIX A

IN-N-OUT SITE SURVEY DATA

Weekday Trip Count Summary

				Thursday	(7/9/20)			
	North D	riveway	South E	Driveway	В	oth Drivewa	уs	Hourly
Time Period	In	Out	In	Out	In	Out	Total	Total
9:30 AM	0	0	0	0	0	0	0	13
9:45 AM	0	0	2	1	2	1	3	30
10:00 AM	0	2	2	0	2	2	4	51
10:15 AM	0	2	4	0	4	2	6	79
10:30 AM	0	4	11	2	11	6	17	109
10:45 AM	0	7	16	1	16	8	24	146
11:00 AM	2	12	15	3	17	15	32	174
11:15 AM	0	17	18	1	18	18	36	190
11:30 AM	3	17	26	8	29	25	54	215
11:45 AM	1	24	23	4	24	28	52	216
12:00 PM	0	22	24	2	24	24	48	221
12:15 PM	0	24	33	4	33	28	61	216
12:30 PM	1	20	27	7	28	27	55	200
12:45 PM	1	31	23	2	24	33	57	196
1:00 PM	1	14	23	5	24	19	43	200
1:15 PM	0	15	24	6	24	21	45	208
1:30 PM	0	23	25	3	25	26	51	200
1:45 PM	2	24	26	9	28	33	61	199
2:00 PM	0	20	29	2	29	22	51	178
2:15 PM	2	20	14	1	16	21	37	161
2:30 PM	0	16	24	10	24	26	50	157
2:45 PM	1	1/	16	6	1/	23	40	142
3:00 PM	1	13	18	2	19	15	34	130
3:15 PM	1	1/	14	1	15	18	33	132
3:30 PM	1	1/	15	2	16	19	35	124
3:45 PM	1	7	15	4	15	10	20	100
4:00 PM	1	10	10	3	11	19	30	109
4:15 PM	1	13	10	1	0	14	20	102
4.30 PM	1	7	7	2	7	12	21	107
4.43 PM	1	10	10	0	10	10	27	140
5:15 DM	2	10	10	2	16	16	27	142
5:30 PM	2	14	14	5	17	21	32	166
5:45 PM	0	16	2/	3	24	19	43	160
6:00 PM	1	10	25	1	24	23	40	165
6:15 PM	1	15	17	3	18	18	36	143
6:30 PM	0	18	18	5	18	23	41	146
6:45 PM	0	13	19	7	19	20	39	150
7:00 PM	1	13	13	0	14	13	27	146
7:15 PM	0	17	14	8	14	25	39	159
7:30 PM	0	15	27	3	27	18	45	152
7:45 PM	1	17	15	2	16	19	35	142
8:00 PM	1	14	16	9	17	23	40	145
8:15 PM	0	13	16	3	16	16	32	134
8:30 PM	0	10	22	3	22	13	35	129
8:45 PM	1	19	15	3	16	22	38	117
9:00 PM	0	13	14	2	14	15	29	97
9:15 PM	0	10	12	5	12	15	27	88
9:30 PM	0	8	12	3	12	11	23	78
9:45 PM	0	6	12	0	12	6	18	76
10:00 PM	0	13	6	1	6	14	20	75
10:15 PM	0	5	12	0	12	5	17	76
10:30 PM	0	11	7	3	7	14	21	90
10:45 PM	0	4	12	1	12	5	17	90
11:00 PM	0	9	8	4	8	13	21	92
11:15 PM	0	11	16	4	16	15	31	81
11:30 PM	0	13	8	0	8	13	21	63
11:45 PM	0	9	7	3	7	12	19	52
12:00 AM	0	3	6	1	6	4	10	46
12:15 AM	0	7	6	0	6	7	13	39
12:30 AM	0	5	5	0	5	5	10	28
12:45 AM	0	8	5	0	5	8	13	23
1:00 AM	0	2	1	0	1	2	3	10
1:15 AM	0	0	1	1	1	1	2	-
1:30 AM	0	2	1	2	1	4	5	-
1:45 AM	0	040	0	0	0	0	0	-
Tria Crosset	27	010	707	190	988	996	1984	-
Mid Door Door	on Summary	0.014 4.00	DM4)		<u>IN</u>	<u>Uut</u>	<u>10</u>	<u>).(dl</u>
DM Do-H Llo	HOUR (12:0	U PIVI - 1:00	rm)		104	112	2	∠⊥ 40
Pivi Peak Hour	1 (3:45 PM -	0:40 PM)			80	ರತ	1	U7 104
Dally					-	-	15	04

Note:

Mid-Day peak hour taken between 11:00 AM - 4:00 PM and PM peak hour taken between 4:00 PM - 7:00 PM.

LOCATION: Mall Loop -- North In & Out Dwy QC JOB #: 15248613 CITY/STATE: Fort Worth, TX DATE: Thu, Jul 9 2020 Peak-Hour: 12:00 PM -- 1:00 PM 1.8 55 1 0 **♦** 0 **↑** 1 Peak 15-Min: 12:45 PM -- 1:00 PM ŧ **↑** 0 0 0 0 . . **t** 55 **t** 0 **+** 97 **t** 0 **+** 0 **t** 1.8 + 1 8 0.77 0 🔸 **•** 0 1 🔸 + 8 0 🔸 0 🦡 **r** 0 **+** 0 07 1 **↑** 0 ∿ 0 ♦ • 0 € **↑** 0 **۴** 0 0 ŧ Quality Counts DATA THAT DRIVES COMMUNITIES **↑** 0 ٥ 0 0 0 . **e** 0 **t** 0 070 0 0 0 🔸 **+** 0 ♠ 07 **f** 0 **۴** 0 **↑** 0 • 0 N/A N/A ÷ ٠ t و \star N/A N/A 🔸 N/A 🔸 🛥 N/A 0 ٦, ç ٦, h ŧ ŧ C N/A N/A ŧ Mallia

15-Min Count Period			Mall (South	Loop bound)		N	orth in & Eastb)	ፉ Out Dw oound)	У	N	orth In & Westl)	Total	Hourly					
Beginning At	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		lotais
9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	2	
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	2	4
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	3	0	1	0	4	8
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	3	0	4	0	7	15
11:00 AM	0	0	0	0	2	0	0	0	0	0	0	0	4	0	8	0	14	27
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	5	4	8	0	17	42
11:30 AM	0	0	0	0	2	0	0	0	0	1	0	0	3	0	14	0	20	58
11:45 AM	0	0	0	0	1	0	0	0	0	0	0	0	8	1	15	0	25	76
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	6	1	15	0	22	84
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	11	3	10	0	24	91
12:30 PM	0	0	0	0	1	0	0	0	0	0	0	0	7	2	11	0	21	92
12:45 PM	0	0	0	0	0	0	0	0	0	1	0	0	10	2	19	0	32	99
1:00 PM	0	0	0	0	0	0	0	0	0	1	0	0	6	1	7	0	15	92
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	5	1	9	0	15	83
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	6	3	14	0	23	85
1:45 PM	0	0	0	0	2	0	0	0	0	0	0	0	9	2	13	0	26	79
2:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	9	1	10	0	20	84
2:15 PM	0	0	0	0	1	0	0	0	0	1	0	0	8	0	12	0	22	91
2:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	4	2	10	0	16	84
2:45 PM	0	0	0	0	1	0	0	0	0	0	0	0	6	1	10	0	18	76
3:00 PM	0	0	0	0	0	0	0	0	0	1	0	0	5	0	8	0	14	/0
3:15 PM	0	0	0	0	0	0	0	0	0	1	0	0	6	0	11	0	18	66
3:30 PIM	0	0	0	0	1	0	0	0	0	0	0	0	/	0	10	0	18	68
3:45 PIM	0	0	0	0	0	0	0	0	0	0	0	0	4	0	5	0	9	59
4:00 PIM	0	0	0	0	1	0	0	0	0	0	0	0	8	0	8	0	1/	62
4:15 PIVI	0	0	0	0	1	0	0	0	0	0	0	0	6	1	6	0	14	58
4:30 PIVI	0	0	0	0	0	0	0	0	0	0	0	0	4	1	4	0	9	49
4:45 PIVI	0	0	0	0	0	0	0	0	0	1	0	0	1	0	6	0	8	48
5:00 PIVI	0	0	0	0	1	0	0	0	0	0	0	0	2	0	5	0	11	42
5:15 PIVI	0	0	0	0	2	0	0	0	0	0	0	0	5	0	9	0	10	44
5:30 PIVI	0	0	0	0	0	0	0	0	0	0	0	0	8	0	ð	0	16	51
5:45 PIVI	0	0	0	0	0	0	0	0	0	1	0	0	/ 0	T	Ŏ 11	0	20	22
	0	0	0	0	0	0	0	0	0	1	0	0	Õ o	0	7	0	20	00 60
6.13 PIVI	0	0	0	0	0	0	0	0	0	1	0	0	ő	2	<i>'</i>	0	10	70
6.45 DM	0	0	0	0	0	0	0	0	0	0	0	0	5	2 1	9 7	0	10	67
0.43 PIVI	U	U	U	U	U	U	U	U	U	U	U	U	5	T	/	U	12	07
								Page 1	of 2							⊏vhil	sit I	

15-Min Count Period		Mall (North	Loop bound)			Mall (South	Loop bound)		No	orth In 8 (Eastb	& Out Dw oound)	у	N	orth In 8 (West	& Out Dw bound)	/y	Total	Hourly
Beginning At	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		Totals
7:00 PM	0	0	0	0	1	0	0	0	0	0	0	0	7	1	5	0	14	61
7:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	6	1	10	0	17	62
7:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	5	3	7	0	15	59
7:45 PM	0	0	0	0	0	U	0	U	U	1	0	0	6	4	/	0	18	64
8:00 PIVI	U	0	U	0	1	U	0	U	U	U	0	U	5	0	9	0	15	65
0:12 PIVI	0	0	0	0	0	0	0	0	0	0	0	0	7	1	ס 2	0	10	56
8:30 PIVI 9:45 DM	0	0	0	0	1	0	0	0	0	0	0	0	12	1	2	0	20	50
0.45 FIVI	0	0	0	0	0	0	0	0	0	0	0	0	6	1	6	0	13	56
9.15 PM	0	Ő	0	0	0	0	0 0	0	0	0	0 0	ñ	7	0	2	0	10	53
9:30 PM	õ	õ	õ	õ	ő	õ	õ	õ	õ	õ	õ	õ	4	õ	4	õ	8	51
9:45 PM	õ	õ	õ	õ	0	0	Õ	õ	Ő	õ	õ	õ	4	1	1	õ	6	37
10:00 PM	Ō	Ō	Ō	Ō	Ō	Ō	Ō	Ō	Ō	Ō	Ō	Ō	10	ō	3	Ō	13	37
10:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	3	0	2	0	5	32
10:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	6	0	5	0	11	35
10:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	3	0	4	33
11:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	6	1	2	0	9	29
11:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	8	0	3	0	11	35
11:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	10	0	3	0	13	37
11:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	7	0	2	0	9	42
12:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	3	36
12:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	6	0	1	0	7	32
12:30 AM	0	0	0	0	0	0	0	U	0	U	0	0	2	1	2	0	5	24
12:45 AIVI	0	0	0	0	0	U	0	U	U	U	0	U	2	2	4	0	8	23
	0	0	U	0	0	U	0	U	U	U	0	U	1	0	1	0	2	22
1:15 AIVI 1:20 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
1:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Book 15 Min		North	bound			South	bound	-	-	Fastb	ound	-		West	bound	-	-	
Flowrates	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	To	tal
All Vehicles	0	0	0	0	0	0	0	0	0	4	0	0	40	8	76	0	12	8
Heavy Trucks	õ	õ	õ	Ŭ	õ	õ	õ	Ũ	õ	0	õ	Ũ	0	õ	0	Ŭ)
Buses																		
Pedestrians		0				0				0				0			()
Bicycles	0	0	0		0	0	0		0	0	0		0	0	0		()
Scooters																		
Comments:																		

Report generated on 7/21/2020 1:58 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212
LOCATION: Mall Loop -- South In & Out Dwy QC JOB #: 15248615 CITY/STATE: Fort Worth, TX DATE: Thu, Jul 9 2020 Peak-Hour: 11:30 AM -- 12:30 PM 22 0 4 0 **↓** 0 Peak 15-Min: 12:15 PM -- 12:30 PM ŧ **↑** 22 **↑** 0 0 0 0 . **t** 0 **+** 18 **t** 0 **+** 0 **€** 0 **€** 5.6 1 4 t 0.84 0 🔸 **•** 0 3 🔸 ٠ 1 0 🔸 0 🦡 **€** 7.7 **→** 0.9 3 🔹 0 🥆 € 13 + 106 ● 0 ● 7.7 • 0 € **≜** 0 **r** 1.2 ۴ 81 **↑** 0 ŧ **♦** 1.2 Quality Counts DATA THAT DRIVES COMMUNITIES 81 13 0 0 0 . **e** 0 **t** 0 070 0 0 0 🔸 **+** 0 ♠ 07 **f** 0 **r** 0 **↑** 0 • 0 N/A N/A ÷ 1 t و \star N/A N/A 🔸 🕳 N/A N/A 🔸 0 ٦, ç ٦, h ŧ ŧ C N/A N/A

15-Min Count Period		North	LOOP bound)			Mall (South	Loop bound)		50	Easth (Easth	s Out Dw ound)	У	50	outh in 8 (Westl	out Dw	y	Total	Hourly
Beginning At	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	rotai	Totals
9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9:45 AM	0	0	2	0	0	0	0	0	0	0	0	0	1	0	0	0	3	
10:00 AM	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	2	
10:15 AM	0	0	2	0	1	0	0	0	0	1	0	0	0	0	0	0	4	9
10:30 AM	0	0	8	0	3	0	0	0	0	0	0	0	1	0	1	0	13	22
10:45 AM	0	0	12	0	4	0	0	0	0	0	0	0	0	0	1	0	17	36
11:00 AM	0	0	15	0	0	0	0	0	0	0	0	0	1	0	2	0	18	52
11:15 AM	0	0	17	0	1	0	0	0	0	0	0	0	1	0	0	0	19	67
11:30 AM	0	0	1/	0	/	0	0	0	0	2	0	0	/	1	0	0	34	88
11:45 AM	0	0	16	0	6	0	0	0	0	1	0	0	4	0	0	0	27	98
12:00 PIM	0	0	21	0	3	0	0	0	0	0	0	0	1	0	1	0	26	106
12:15 PIVI	0	0	27	0	6	0	0	0	0	0	0	0		0	3	0	3/	124
12:30 PIVI	0	0	22	0	3	0	0	0	0	2	0	0	2	0	0	0	34	124
12:45 PIVI	0	0	19	0	4	0	0	0	0	0	0	0	2	0	1	0	25	122
1:00 PIVI	0	0	18	0	2	0	0	0	0	0	0	0	4	0	1	0	28	124
1.15 PIVI 1.20 DM	0	0	22	0	2	0	0	0	0	0	0	0	2	0	1	0	20	111
1.30 FIVI	0	0	23	0	5	0	0	0	0	0	0	0	27	1	1	0	20	121
2:00 PM	ñ	ñ	26	ñ	3	ñ	0 0	ñ	ő	ñ	ñ	ñ	2	ō	Ō	ñ	33	121
2:15 PM	Ő	Ő	11	õ	3	Ő	Ő	õ	ő	ñ	Ő	ñ	1	Ő	õ	õ	15	109
2:30 PM	Ő	Ő	22	õ	2	Ő	õ	õ	Ő	Ő	õ	õ	7	Ő	3	õ	34	115
2:45 PM	Ő	Õ	14	õ	2	õ	õ	õ	Ő	õ	õ	õ	5	1	õ	õ	22	102
3:00 PM	Õ	Õ	15	Ō	3	õ	Ō	Ō	Õ	Õ	Ō	õ	1	Ō	1	Ō	20	91
3:15 PM	0	0	13	0	1	0	0	0	0	0	0	0	1	0	0	0	15	91
3:30 PM	0	0	13	0	2	0	0	0	0	0	0	0	1	1	0	0	17	74
3:45 PM	0	0	13	0	2	0	0	0	0	0	0	0	2	0	2	0	19	71
4:00 PM	0	0	13	0	3	0	0	0	0	0	0	0	2	0	1	0	19	70
4:15 PM	0	0	5	0	5	0	0	0	0	0	0	0	1	0	0	0	11	66
4:30 PM	0	0	7	0	1	0	0	0	0	1	0	0	3	0	0	0	12	61
4:45 PM	0	0	12	0	4	0	0	0	0	0	0	0	3	0	0	0	19	61
5:00 PM	0	0	13	0	5	0	0	0	0	0	0	0	0	0	0	0	18	60
5:15 PM	0	0	12	0	2	0	0	0	0	0	0	0	1	0	1	0	16	65
5:30 PM	0	0	13	0	4	0	0	0	0	0	0	0	4	0	1	0	22	75
5:45 PM	0	0	22	0	0	0	0	0	0	2	0	0	1	1	1	0	27	83
6:00 PM	0	0	24	0	0	0	0	0	0	1	0	0	2	0	2	0	29	94
6:15 PM	0	0	16	0	0	0	0	0	0	1	0	0	2	0	1	0	20	98
6:30 PM	0	0	16	0	2	0	0	0	0	0	0	0	4	0	1	0	23	99
6:45 PM	0	0	16	U	3	0	U	0	0	0	0	0	5	1	1	U	26	98

15-Min Count Mall Loop Period (Northbound)			Mall (South	Loop bound)		So	outh In 8 (Eastb	& Out Dw	y	Sc	outh In 8 (West	& Out Dw bound)	/y	Total	Hourly			
Beginning At	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		lotals
7:00 PM	0	0	11	0	2	0	0	0	0	0	0	0	0	0	0	0	13	82
7:15 PM	0	0	11	0	3	0	0	0	0	0	0	0	7	0	1	0	22	84
7:30 PM	0	0	24	0	3	0	0	0	0	0	0	0	2	0	1	0	30	91
7:45 PM	0	0	13	0	2	0	0	0	0	0	0	0	2	0	0	0	17	82
8:00 PM	0	0	12	0	4	0	0	0	0	0	0	0	8	1	0	0	25	94
8:15 PM	0	0	15	0	1	0	0	0	0	0	0	0	2	1	0	0	19	91
8:30 PM	0	0	18	0	4	0	0	0	0	0	0	0	2	0	1	0	25	86
8:45 PM	0	0	14	0	0	0	0	0	0	1	0	0	2	1	0	0	18	87
9:00 PM	0	0	13	0	1	0	0	0	0	0	0	0	1	0	1	0	16	78
9:15 PM	0	0	7	0	5	0	0	0	0	0	0	0	4	0	1	0	17	76
9:30 PM	0	0	10	0	1	0	0	0	0	1	0	0	1	0	2	0	15	66
9:45 PM	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	12	60
10:00 PM	0	0	5	0	1	0	0	0	0	0	0	0	0	1	0	0	7	51
10:15 PM	0	0	9	0	3	0	0	0	0	0	0	0	0	0	0	0	12	46
10:30 PM	0	0	6	0	1	0	0	0	0	0	0	0	2	0	1	0	10	41
10:45 PM	0	0	8	0	4	0	0	0	0	0	0	0	1	0	0	0	13	42
11:00 PM	0	0	/	0	1	0	0	0	0	0	0	0	3	0	1	0	12	4/
11:15 PM	0	0	11	0	5	0	0	0	0	0	0	0	4	0	0	0	20	55
11:30 PM	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	8	53
11:45 PM	0	0	6	0	1	0	0	0	0	0	0	0	3	0	0	0	10	50
12:00 AM	0	0	5	0	1	0	0	0	0	0	0	0	1	0	0	0		45
12:15 AM	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6	31
12:30 AM	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5	28
12:45 AM	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5	23
1:00 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	17
1:15 AM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	2	13
1:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3 0	6
Deek 15 Min	Ű	North	bound	Ũ	Ū	South	bound	0	Ū	Easth	bound	Ū	Ū	West	bound	0	Ū	Ű
Flowrates	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	То	tal
All Vehicles	0	0	108	0	24	0	0	0	0	0	0	0	4	0	12	0	1/	18
Heavy Trucks	Ő	õ	0	Ŭ	0	õ	õ	Ŭ	õ	õ	õ	Ŭ	0	õ	0	Ŭ	- C	
Buses	Ŭ	Ŭ	Ŭ		Ŭ	Ŭ	Ũ		Ŭ	Ũ	Ŭ		Ŭ	Ŭ	Ŭ		, in the second s	, ,
Pedestrians		0				0				0				0			()
Bicycles	0	õ	0		0	õ	0		0	õ	0		0	õ	0)
Scooters	Ũ	Ũ	Ŭ		Ŭ	Ũ	Ũ		Ŭ	Ũ	Ŭ		Ŭ	Ũ	Ũ			
Comments:																		

Report generated on 7/21/2020 1:58 PM

Saturday Trip Count Summary

				Saturday	(7/11/20)			
	North E	Driveway	South E	Driveway	В	oth Drivewa	ys	Hourly
Time Period	In	Out	In	Out	In	Out	Total	Total
9:30 AM	0	1	1	0	1	1	2	22
9:45 AM	0	2	3	0	3	2	5	27
10:00 AM	0	1	2	1	2	2	4	36
10:15 AM	0	3	5	3	5	6	11	71
10:30 AM	0	2	4	1	4	3	7	92
10:45 AM	2	2	8	2	10	4	14	125
11:00 AM	1	8	22	8	23	16	39	159
11:15 AM	0	17	14	1	14	18	32	168
11:30 AM	0	15	21	4	21	19	40	187
11:45 AM	2	19	23	4	25	23	48	203
12:00 PM	0	20	27	1	27	21	48	212
12:15 PM	1	21	25	4	26	25	51	214
12:30 PM	3	22	25	6	28	28	56	203
12:45 PM	0	19	32	6	32	25	57	186
1:00 PM	5	18	21	6	26	24	50	181
1:15 PM	3	21	13	3	16	24	40	176
1:30 PM	3	15	18	3	21	18	39	177
1:45 PM	2	23	25	2	27	25	52	183
2:00 PM	4	24	14	3	18	27	45	171
2.00 PM	0	17	18	6	18	23	41	181
2:30 PM	1	19	19	6	20	25	45	180
2.00 TM	1	16	19	4	20	20	40	175
2.40 FM	2 2	19	29	4	20	23	0	182
3.00 PIVI 3.15 DM	2	14	1/	7	17	23	10	155
2.10 PM	2	10	14	2	10	20	40	157
2.45 DM	2	15	20	2	17	21	40	154
3:45 PM	2	10	20	9	2.3	24	47	150
4:00 PM	0	10	12	0	15	13	20	155
4:15 PM	0	19	20	Г	20	22	42	1/5
4:30 PM	1	14	19	5	20	19	39	1/3
4:45 PM	4	12	21	/	25	19	44	180
5:00 PM	4	16	22	8	26	24	50	1/3
5:15 PM	1	14	18	/	19	21	40	156
5:30 PM	3	20	16	/	19	27	46	151
5:45 PM	4	15	15	3	19	18	37	150
6:00 PM	1	12	17	3	18	15	33	144
6:15 PM	2	11	17	5	19	16	35	156
6:30 PM	2	21	16	6	18	27	45	157
6:45 PM	1	14	15	1	16	15	31	139
7:00 PM	1	18	21	5	22	23	45	128
7:15 PM	0	18	16	2	16	20	36	116
7:30 PM	0	12	13	2	13	14	27	108
7:45 PM	0	6	11	3	11	9	20	114
8:00 PM	0	13	16	4	16	17	33	125
8:15 PM	0	11	16	1	16	12	28	122
8:30 PM	0	10	16	7	16	17	33	118
8:45 PM	2	13	15	1	17	14	31	109
9:00 PM	1	10	15	4	16	14	30	106
9:15 PM	0	16	6	2	6	18	24	104
9:30 PM	0	9	15	0	15	9	24	116
9:45 PM	0	12	14	2	14	14	28	119
10:00 PM	0	10	15	3	15	13	28	118
10:15 PM	0	13	16	7	16	20	36	112
10:30 PM	0	12	12	3	12	15	27	99
10:45 PM	0	13	14	0	14	13	27	100
11:00 PM	0	10	10	2	10	12	22	85
11:15 PM	0	14	9	0	9	14	23	71
11:30 PM	0	13	12	3	12	16	28	59
11:45 PM	0	6	4	2	4	8	12	41
12:00 AM	0	0	5	3	5	3	8	40
12:15 AM	0	0	10	1	10	1	11	45
12:30 AM	0	0	7	3	7	3	10	42
12:45 AM	0	4	6	1	6	5	11	36
1:00 AM	0	6	6	1	6	7	13	26
1:15 AM	0	6	2	0	2	6	8	-
1:30 AM	0	2	2	0	2	2	4	-
1:45 AM	0	1	0	0	0	1	1	-
TOTAL	70	813	950	213	1020	1026	2046	-
Trip Generatio	on Summary				In	Out	To	tal
Mid-Day Peak	Hour (12:1	5 PM - 1:15	PM)		112	102	2	14
Daily					-	-	20)46

Note:

Mid-Day peak hour taken between 11:00 AM - 4:00 PM.

LOCATION: Mall Loop -- North In & Out Dwy QC JOB #: 15248614 CITY/STATE: Fort Worth, TX DATE: Sat, Jul 11 2020 Peak-Hour: 1:15 PM -- 2:15 PM 0 52 6 0 **♦** 0 **≜** 6 Peak 15-Min: 2:00 PM -- 2:15 PM ŧ **≜** 0 0 0 0 . **t** 52 **+** 83 • 0 • **t** 0 **+** 0 **t** 0 **+** 1.2 3 0.85 0 🔸 **•** 0 0 🔸 + 3 0 🔸 0 🦡 € 28 + 12 **€** 3.6 **●** 0 0 🔸 0 🥆 • 0 ♥ ↑ 0 ↓ 3.6 ۲ 0 **↑** 0 **↑** 0 6 ŧ Quality Counts DATA THAT DRIVES COMMUNITIES **↑** 0 0 0 0 . **e** 0 **t** 0 070 0 0 0 🔸 **+** 0 ♠ 07 **f** 0 **r** 0 **↑** 0 • 0 N/A N/A ÷ ٠ t و \star N/A N/A 🔸 🕳 N/A N/A 🔸 6 ĺ ٦, ç ¢ ٦, h ŧ ŧ C N/A N/A

15-Min Count Period		Mall (North	LOOP bound)			Mall (South	LOOP bound)		N	ہ orth in Eastt)	& Out Dw oound)	'Y	N	orth in 8 Westl)	k Out Dw bound)	'Y	Total	Hourly
Beginning At	Left	Thru	Right	U	Left	Thru	Right	U	Left	Ťhru	Right	U	Left	Thru	Right	U		Totals
9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	
9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	2	
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0	3	7
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	8
10:45 AM	0	0	0	0	2	0	0	0	0	0	0	0	2	0	0	0	4	10
11:00 AM	0	0	0	0	1	0	0	0	0	0	0	0	4	0	4	0	9	18
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	5	1	11	0	17	32
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	4	0	11	0	15	45
11:45 AM	0	0	1	0	0	0	0	0	0	1	0	0	8	0	11	0	21	62
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	6	0	14	0	20	73
12:15 PM	0	0	0	0	1	0	0	0	0	0	0	0	5	1	15	0	22	78
12:30 PM	0	0	1	0	2	0	0	0	0	0	0	0	8	0	14	0	25	88
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	5	1	13	0	19	86
1:00 PM	0	0	2	0	3	0	0	0	0	0	0	0	7	1	10	0	23	89
1:15 PM	0	0	3	0	0	0	0	0	0	0	0	0	8	0	13	0	24	91
1:30 PM	0	0	1	0	2	0	0	0	0	0	0	0	6	1	8	0	18	84
1:45 PM	0	0	1	0	1	0	0	0	0	0	0	0	6	1	16	0	25	90
2:00 PM	0	0	1	0	3	0	0	0	0	0	0	0	8	1	15	0	28	95
2:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	7	0	10	0	17	88
2:30 PM	0	0	0	0	1	0	0	0	0	0	0	0	7	2	10	0	20	90
2:45 PM	0	0	0	0	1	0	0	0	0	0	0	0	6	0	10	0	1/	82
3:00 PIM	0	0	1	0	2	0	0	0	0	0	0	0	6	2	11	0	22	76
3:15 PIM	0	0	1	0	1	0	0	0	0	1	0	0	6	0	10	0	19	/8
3:30 PIVI	0	0	0	0	2	0	0	0	0	1	0	0	8	0	11	0	22	80
3:45 PIVI	0	0	1	0	2	0	0	0	0	0	0	0	5	0	10	0	18	81
4:00 PIVI	0	0	0	0	1	0	0	0	0	2	0	0	6	0	/	0	10	75
4.15 PIVI	0	0	0	0	1	0	0	0	0	0	0	0	0 2	1	10	0	19	75 60
4.50 PIVI	0	0	1	0	2	0	0	0	0	0	0	0	2	1	10	0	15	60
4.45 PIVI	0	0	2	0	2	0	0	0	0	0	0	0		1	9 10	0	20	70
5.00 PIVI	0	0	2	0	1	0	0	0	0	0	0	0	0	2	10	0	20	66
5.15 PIVI	0	0	1	0	1	0	0	0	0	1	0	0	0 6	2	4	0	15	74
5.30 PIVI	0	0	1	0		0	0	0	0	1	0	0	5	1	13	0	10	74
6.00 PM	0	0	0	0	0	0	0	0	ň	ے 1	0	0	6	0	5	0	13	70
6.15 DM	0	0	1	0	1	0	0	0	ő	0	0	0	2	1	7	0	12	69
6.30 PM	0	0	0	0	1	0	0	0	ň	1	0	0	11	1	, 0	0	22	68
6:45 DM	0	0	0	0	1	0	0	0	0	1	0	0	2	1	9 10	0	25	64
0.45 PIVI	0	0	U	U	L	U	U	U	U	0	U	U	3	1	10	U	12	64

15-Min Count Mall Loop Period (Northbound)				Mall (South	Loop bound)		No	orth In 8 (Eastb	& Out Dw bound)	y	North In & Out Dwy (Westbound)			/y	Total	Hourly		
Beginning At	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		Totais
7:00 PM	0	0	0	0	1	0	0	0	0	0	0	0	6	1	11	0	19	70
7:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	8	0	10	0	18	75
7:30 PIM	0	0	0	0	0	U	0	U	U	U	U	0	6	0	6	0	12	64
7:45 PIVI	0	U	U	0	U	U	0	U	U	U	U	0	2	0	4	U	6	55
8:00 PIVI	0	0	0	0	0	0	0	0	0	0	0	0	3	0	10	0	13	49
0.13 PIVI	0	0	0	0	0	0	0	0	0	0	0	0	4	1	6	0	10	42
0.50 PIVI 8.45 DM	0	0	1	0	0	0	0	0	0	1	0	0	4	0	2	0	10	40
9.40 PM	0	0	0	0	1	0	0	0	0	0	0	0	5	1	<u>ک</u>	0	11	45
9.15 PM	0	0	0	0	Ō	0	0 0	0	0	0	0	ñ	5	1	10	0	16	52
9:30 PM	ő	0	Ő	ő	ŏ	0	ő	Ő	ő	Ő	Ő	õ	5	ō	4	Ő	9	51
9:45 PM	ŏ	õ	õ	ŏ	ŏ	õ	õ	õ	ŏ	ŏ	õ	ŏ	7	1	4	õ	12	48
10:00 PM	Ō	Ō	Ō	Ō	ō	Ō	Ō	Ō	ō	Ō	Ō	Ō	2	ō	8	Ō	10	47
10:15 PM	0	0	Ō	Ō	0	0	Ō	0	0	0	0	Ō	5	1	7	0	13	44
10:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	3	1	8	0	12	47
10:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	7	1	5	0	13	48
11:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	7	0	3	0	10	48
11:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	8	0	6	0	14	49
11:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	8	0	5	0	13	50
11:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	6	43
12:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33
12:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
12:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
12:45 AM	0	0	0	0	0	U	0	U	0	U	U	0	2	1	1	0	4	4
1:00 AM	0	0	0	0	0	U	0	U	U	U	U	0	4	0	2	0	6	10
1:15 AIVI	0	0	U	0	U	U	0	0	U	U	0	0	3 1	0	5	0	b 2	10
1:30 AM	0	0	0	0	0	0	0	0	0	0	0	0		0	1	0	2	18
Deal: 45 Min	Ū	North	bound		Ū	South	bound	0	Ū	Fasth	bound	Ũ	Ū	West	hound	Ū	-	13
Flowrates	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	To	tal
All Vehicles	0	0	4	0	12	0	0	0	0	0	0	0	32	4	60	0	11	2
Heavy Trucks	Ő	õ	0	Ŭ	0	Ő	õ	U	0	õ	õ	U	0	0	0	U	1.)
Buses	Ŭ	Ũ	Ŭ		Ŭ	Ũ	Ũ		Ŭ	Ũ	Ŭ		Ũ	Ŭ	Ŭ			Í.
Pedestrians		0				0				0				0			0)
Bicycles	0	0	0		0	0	0		0	0	0		0	0	0		()
Scooters																		
Comments:																		

Report generated on 7/21/2020 1:58 PM

LOCATION: Mall Loop -- South In & Out Dwy QC JOB #: 15248616 CITY/STATE: Fort Worth, TX DATE: Sat, Jul 11 2020 Peak-Hour: 12:00 PM -- 1:00 PM 18 11.1 0 4 **₽** 0 ♠ 18 Peak 15-Min: 12:45 PM -- 1:00 PM **↑** 0 11.1 ŧ 0 0 . **t** 0 **+** 17 **t** 0 **+** 0 • 0 1 4 **t** 0 t 0 🔸 0.83 0 🔸 0 ٠ 1 + 0 🔸 0 🦡 0 🔸 0 🥆 € 12 + 109 ↑ 0 ↓ 0 • 0 € **↑** 0 **۴** 1.1 ۴ 91 ÷ 0 ŧ Quality Counts DATA THAT DRIVES COMMUNITIES **↑** 1.1 91 ٥ 0 0 0 . **e** 0 **t** 0 AD 0 0 0 🔸 **+** 0 ♠ 07 **f** 0 **r** 0 **↑** 0 • 0 N/A N/A ÷ ٠ t و \star N/A N/A 🔺 🕳 N/A N/A 🔸 9 ٦, ç c ٦, h ŧ ŧ C N/A N/A

15-Min Count Period		North	LOOP bound)			Mall (South	Loop bound)		So	eastb (Eastb	& Out Dw oound)	'Y	So	outh in 8 (Westi	& Out Dw bound)	ſΥ	Total	Hourly
Beginning At	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		Totals
9:30 AM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
9:45 AM	0	0	1	0	1	0	0	0	0	1	0	0	0	0	0	0	3	
10:00 AM	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	3	
10:15 AM	0	0	3	0	1	0	0	0	0	1	0	0	1	0	2	0	8	15
10:30 AM	0	0	3	0	1	0	0	0	0	0	0	0	1	0	0	0	5	19
10:45 AM	0	0	5	0	3	0	0	0	0	0	0	0	2	0	0	0	10	26
11:00 AM	0	0	21	0	1	0	0	0	0	0	0	0	7	0	1	0	30	53
11:15 AM	0	0	12	0	2	0	0	0	0	0	0	0	0	0	1	0	15	60
11:30 AM	0	0	16	0	5	0	0	0	0	0	0	0	3	0	1	0	25	80
11:45 AM	0	0	16	0	7	0	0	0	0	0	0	0	4	0	0	0	27	97
12:00 PM	0	0	21	0	6	0	0	0	0	0	0	0	1	0	0	0	28	95
12:15 PM	0	0	19	0	6	0	0	0	0	0	0	0	3	0	1	0	29	109
12:30 PM	0	0	23	0	2	0	0	0	0	0	0	0	5	0	1	0	31	115
12:45 PM	0	0	28	0	4	0	0	0	0	0	0	0	3	1	2	0	38	126
1:00 PM	0	0	19	0	2	0	0	0	0	0	0	0	5	0	1	0	27	125
1:15 PM	0	0	12	0	1	0	0	0	0	0	0	0	2	0	1	0	16	112
1:30 PM	0	0	17	0	1	0	0	0	0	0	0	0	2	0	1	0	21	102
1:45 PIM	0	0	20	0	5	0	0	0	0	0	0	0	2	0	0	0	27	91
2:00 PIM	0	0	10	0	4	0	0	0	0	0	0	0	1	0	2	0	1/	81
2:15 PIM	0	0	15	0	3	0	0	0	0	0	0	0	1	0	5	0	24	89
2:30 PIM	0	0	14	0	5	0	0	0	0	0	0	0	5	0	1	0	25	93
2:45 PIVI	0	0	12	0		0	0	0	0	0	0	0	2	0	2	0	23	89 10F
3:00 PIVI	0	0	24	0	2	0	0	0	0	0	0	0	2	0	2	0	33	105
3:15 PIVI	0	0	10	0	4	0	0	0	0	2	0	0	4	0	3	0	10	102
5.50 PIVI	0	0	15	0		0	0	0	0	2	0	0	6	0	2	0	20	101
5.45 PIVI	0	0	12	0	2	0	0	0	0	1	0	0	0	0	5	0	12	101
4.00 PIVI 4.15 DM	0	0	0 15	0	5	0	0	0	0	0	0	0	2	0	1	0	22	80 82
4.13 PM	0	0	1/	0	5	0	0	0	0	0	0	0	2	0	2	0	23	88
4.30 PM	0	0	12	0	å	0	0	0	0	0	0	0	5	0	2	0	24	87
5.00 PM	0	0	10	0	2	0	0	0	0	0	0	0	6	0	2	0	20	105
5.15 DM	0	0	17	0	1	0	0	0	0	0	0	0	5	0	2	0	25	107
5.30 PM	ő	Ő	14	ñ	2	0	0	0	ő	0	0	ñ	5	0	2	ñ	23	106
5:45 PM	ő	ő	11	ő	2 4	0	0	0	ő	0	ő	õ	1	0	2	ő	18	96
6:00 PM	ő	ő	15	õ	2	Ő	Ő	ő	ő	ő	Ő	õ	1	1	1	ő	20	86
6:15 PM	ő	ő	17	õ	ō	Ő	Ő	ő	ő	ő	Ő	õ	1	1	3	ő	22	83
6:30 PM	ő	ő	13	õ	1	Ő	Ő	ő	ő	2	Ő	õ	5	ō	1	ő	22	82
6:45 PM	ő	ő	11	õ	4	Ő	Ő	ő	ő	õ	Ő	õ	1	0	ō	ő	16	80
0.45110	Ŭ	v	**	v		v	v	v	, v	v	v	v		v	v	v	10	

15-Min Count Mall Loop Period (Northbound)				Mall (South	Loop bound)		South In & Out Dwy (Eastbound) (Westbound)			ſŶ	Total	Hourly						
Beginning At	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		Totals
7:00 PM	0	0	18	0	3	0	0	0	0	0	0	0	5	0	0	0	26	86
7:15 PM	0	0	14	0	2	0	0	0	0	0	0	0	2	0	0	0	18	82
7:30 PIM	0	0	12	0	1	U	U	0	0	U	0	U	1	0	1	0	15	/5
7:45 PIVI	0	0	9	0	2	0	0	0	0	0	0	0	1	0	2	0	14	/3
8:00 PIVI 9:15 DM	0	0	14	0	2	0	0	0	0	1	0	0	4	0	1	0	20	67
8.10 FIVI	0	0	15	0	2 1	0	0	0	0	0	0	0	6	1	0	0	22	7/
8.30 FIVI	0	0	10	0	5	0	0	0	0	0	0	0	1	0	0	0	16	74
9.00 PM	ő	Ő	15	õ	ő	ñ	ñ	õ	ő	ñ	õ	ñ	3 Å	õ	1	õ	19	75
9:15 PM	õ	õ	5	õ	1	õ	õ	õ	õ	õ	õ	õ	1	õ	1	õ	8	66
9:30 PM	ŏ	õ	12	õ	3	Õ	õ	õ	ŏ	Õ	õ	ŏ	ō	Õ	Ō	ŏ	15	58
9:45 PM	Ō	Ō	13	Ō	1	Ō	Ō	Ō	Ō	Ō	Ō	Ō	1	Ō	1	Ō	16	58
10:00 PM	0	0	15	0	0	0	0	0	0	0	0	0	2	0	1	0	18	57
10:15 PM	0	0	14	0	2	0	0	0	0	0	0	0	6	0	1	0	23	72
10:30 PM	0	0	11	0	1	0	0	0	0	0	0	0	2	0	1	0	15	72
10:45 PM	0	0	12	0	1	0	0	0	0	1	0	0	0	0	0	0	14	70
11:00 PM	0	0	8	0	2	0	0	0	0	0	0	0	0	0	2	0	12	64
11:15 PM	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	9	50
11:30 PM	0	0	12	0	0	0	0	0	0	0	0	0	3	0	0	0	15	50
11:45 PM	0	0	3	0	1	0	0	0	0	0	0	0	2	0	0	0	6	42
12:00 AM	0	0	5	0	0	0	0	0	0	0	0	0	3	0	0	0	8	38
12:15 AM	0	0	8	0	2	0	0	0	0	0	0	0	1	0	0	0	11	40
12:30 AM	0	0		0	0	U	U	0	0	U	0	U	3	0	0	0	10	35
12:45 AIVI	0	U	Ь	0	U	U	U	U	0	U	0	U	1	0	U	0	/	30
	0	0	5	0	0	0	0	0	0	0	0	0	1	0	0	0	/	35
1:15 AIVI 1:20 AM	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	20
1:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Peak 15-Min		North	bound			South	bound	-		Eastb	ound	-		West	oound			
Flowrates	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	To	tal
All Vehicles	0	0	112	0	16	0	0	0	0	0	0	0	12	4	8	0	19	;2
Heavy Trucks	õ	õ	0	Ŭ	4	õ	õ	Ŭ	Ő	õ	õ	Ũ	0	0	õ	Ŭ		1
Buses																		
Pedestrians		0				0				0				0			()
Bicycles	0	0	0		0	0	0		0	0	0		0	0	0		0)
Scooters																		
Comments:																		

Report generated on 7/21/2020 1:58 PM



Site Code: 15248617 Date: 7/9/2020 Time: 12pm-2pm



Site Code: 15248617 Date: 7/9/2020 Time: 12pm-2pm

Time	Queue	15-Min Peak
1.01 DM	6	15 Will Cak
1.01 PM	Q	
1.02 FW	7	
1.03 FIVI	/ 	
1:04 PIVI	5	
1:05 PM	4	
1:06 PM	3	
1:07 PM	8	
1:08 PM	7	
1:09 PM	7	
1:10 PM	5	
1:11 PM	5	
1:12 PM	3	
1:13 PM	7	
1:14 PM	10	10
1:15 PM	8	
1.16 PM	8	
1.10 PM	11	
1.17 DM	12	
1.10 FIVI	12	
1.13 PIVI	10	
1:20 PIM	10	
1:21 PM	9	
1:22 PM	9	
1:23 PM	11	
1:24 PM	10	
1:25 PM	9	
1:26 PM	8	
1:27 PM	12	
1:28 PM	10	
1:29 PM	8	12
1:30 PM	8	
1:31 PM	11	
1:32 PM	9	
1:33 PM	10	
1:34 PM	10	
1:35 PM	9	
1.36 PM	10	
1.37 PM	4	
1.39 DM	10	
1.20 PIVI	11	
1.33 PIVI	11	
1:40 PIM	9	
1:41 PM	13	
1:42 PM	12	
1:43 PM	10	
1:44 PM	9	13
1:45 PM	10	
1:46 PM	9	
1:47 PM	11	
1:48 PM	11	
1:49 PM	10	
1:50 PM	8	
1:51 PM	8	
1:52 PM	7	
1:53 PM	8	
1.50 DM	8	
1.55 DM	8	
1.55 PIVI	0	
	<i>3</i>	
1.57 PIVI	- 11	
1:58 PM	8	
1:59 PM	10	11

1	Time	0	15 Min Deale
	Time	Queue	15-Win Peak
	12:00 PM	10	
	12:01 PM	10	
	12:02 PM	8	
	12.03 PM	Q	
	12.03 FIV		
	12:04 PM	/	
	12:05 PM	7	
	12:06 PM	9	
	12.07 DM	0	
	12.07 FIV		
	12:08 PM	10	
	12:09 PM	9	
	12:10 PM	9	
	12-11 DM	0	
	12.11 FIVI	9	
	12:12 PM	10	
	12:13 PM	11	
	12·14 PM	10	11
	12.1E DM	10	
	12:15 PIVI	10	
	12:16 PM	9	
	12:17 PM	7	
	12·18 PM	7	
	12.10 044	, ,	
	12:19 PIVI	5	
	12:20 PM	3	
	12:21 PM	6	
	12:22 PM	8	
	12:22 DM	0	
	12.23 FIV	9	
	12:24 PIVI	9	
	12:25 PM	9	
	12:26 PM	11	
	12:27 PM	12	
	12:29 DM	11	
	12.28 FIV	11	
	12:29 PM	11	14
	12:30 PM	10	
	12:31 PM	10	
	12:32 PM	9	
	12:32 PM	9	
	12.33 FIVI	9	
	12:34 PM	/	
	12:35 PM	7	
	12:36 PM	7	
	12:37 PM	7	
	12:29 DM	,	
	12.30 FIV	3	
	17:38 bW	9	
	12:40 PM	9	
	12:41 PM	9	
	12:42 PM	9	
	12.12 DNA	14	
	12.44 PM	12	-
	12:44 PM	12	12
	12:45 PM	12	
	12:46 PM	14	
	12:47 PM	14	
	12.49 DN4	10	
	12.40 FIVI	10	
	12:49 PM	12	
	12:50 PM	10	
	12:51 PM	11	
	12:52 PM	9	
	12.52 DN4	10	
	12.33 PIVI	10	
	12:54 PM	9	
	12:55 PM	10	
	12:56 PM	8	
	12:57 PM	8	
	12.50 014	F	
	12:28 PIVI	5	
	12:59 PM	6	14
	1:00 PM	6	



Site Code: 15248618 Date: 7/9/2020 Time: 5pm-7pm



Site Code: 15248618 Date: 7/9/2020 Time: 5pm-7pm

Time	Оцеце	15-Min Peak
G-01 DM	12	13-WIIIT Cak
6:02 PM	10	
0.02 FIVI	10	
0:05 PIVI	0	
0:04 PIVI	/	
6:05 PIVI	8	
6:06 PIM	8	
6:07 PM	9	
6:08 PM	9	
6:09 PM	9	
6:10 PM	8	
6:11 PM	13	
6:12 PM	14	
6:13 PM	16	
6:14 PM	16	16
6:15 PM	17	
6:16 PM	16	
6:17 PM	15	
6:18 PM	14	
6:19 PM	14	
6.20 PM	16	
6.20 PM	13	
6.22 DM	10	
0.22 FIVI	12	
0.25 PIVI	15	
6:24 PIVI	11	
6:25 PIVI	12	
6:26 PM	12	
6:27 PM	13	
6:28 PM	12	
6:29 PM	12	17
6:30 PM	10	
6:31 PM	10	
6:32 PM	8	
6:33 PM	9	
6:34 PM	7	
6:35 PM	6	
6:36 PM	4	
6:37 PM	5	
6:38 PM	3	
6.39 PM	5	
6:40 PM	6	
6.41 PM	7	
6.42 DNA	í F	
6.42 PIVI	F	
0.43 PIVI	5 E	10
	0	10
6:45 PM	/	
6:46 PM	8	
6:47 PM	7	
6:48 PM	7	
6:49 PM	8	
6:50 PM	7	
6:51 PM	6	
6:52 PM	6	
6:53 PM	8	
6:54 PM	10	
6:55 PM	8	
6:56 PM	10	
6:57 PM	11	
6:58 PM	13	
6:59 PM	13	13

Time	Oueue	15-Min Peak
5.00 PM	8	20 11111 0411
5.00 T M	0	
	3	
5:02 PIVI	y .	
5:03 PM	11	
5:04 PM	9	
5:05 PM	8	
5:06 PM	9	
5:07 PM	9	
5:08 PM	10	
5.00 DM	10	
5.03 FIVI	10	
5:10 PIVI	11	
5:11 PM	12	
5:12 PM	10	
5:13 PM	9	
5:14 PM	9	12
5:15 PM	10	
5.16 PM	9	
5.17 DNA	7	
5.17 PIVI	- /	
2:18 hW	/	
5:19 PM	8	
5:20 PM	8	
5:21 PM	8	
5:22 PM	11	
5:23 PM	10	
5:24 PM	10	
5:25 PM	9	
5:26 PM	9	
5.20 PM	10	
5.27 TW	10	
5.20 FIVI	10	11
5.23 FIVI	10	11
5:30 PIVI	11	
5:31 PM	11	
5:32 PM	11	
5:33 PM	11	
5:34 PM	9	
5:35 PM	9	
5:36 PM	9	
5:37 PM	7	
5:38 PM	6	
5:39 PM	5	
5:40 PM	4	
5:41 PM	5	
5.42 DM	۵ ۵	
5.42 FIVI	7	
5.45 PIVI	/	1.1
5:44 PIVI	ŏ	11
5:45 PM	10	
5:46 PM	10	
5:47 PM	11	
5:48 PM	12	
5:49 PM	12	
5:50 PM	13	
5:51 PM	14	
5:52 PM	15	
5.53 PM	16	
5:54 PM	15	
5.55 DM	15	
	17	
	13	
5:57 PM	13	
5:58 PM	13	
5:59 PM	13	16
6:00 PM	14	



Site Code: 15248619 Date: 7/11/2020 Time: 12pm-2pm



Site Code: 15248619 Date: 7/11/2020 Time: 12pm-2pm

Time	Queue	15-Min Peak
1:01 PM	9	
1:02 PM	10	
1:03 PM	11	
1:04 PM	8	
1:05 PM	9	
1:06 PM	12	
1:07 PM	14	
1:08 PM	13	
1:09 PM	14	
1:10 PM	14	
1:11 PM	13	
1:12 PM	13	
1:13 PM	14	
1:14 PM	13	14
1:15 PM	14	
1:16 PM	11	
1:17 PM	13	
1:18 PM	14	
1:19 PM	15	
1:20 PM	15	
1:21 PM	15	
1:22 PM	15	
1:23 PM	13	
1:24 PM	15	
1:25 PM	12	
1:26 PM	12	
1:27 PM	11	
1:28 PM	13	
1:29 PM	11	15
1:30 PM	13	
1:31 PM	12	
1:32 PM	12	
1:33 PM	13	
1:34 PM	12	
1:35 PM	14	
1:36 PM	11	
1:37 PM	13	
1:38 PM	13	
1:39 PM	12	
1:40 PM	13	
1:41 PM	14	
1:42 PM	13	
1:43 PM	14	
1:44 PM	13	14
1:45 PM	13	
1:46 PM	14	
1:47 PM	14	
1:48 PM	14	
1:49 PM	13	
1:50 PM	11	
1:51 PM	12	
1:52 PM	15	
1:53 PM	15	
1:54 PM	12	
1:55 PM	12	
1:56 PM	12	
1:57 PM	14	1
1:58 PM	13	
1:59 PM	13	15

Time	Queue	15-Min Peak
12:00 PM	5	
12:01 PM	5	
12:02 PM	/	
12:03 PM	12	
12:04 PM	10	
12:05 PIVI	9	
12:00 PIVI	/	
12.07 FIVI	9	
12.00 FIV	0	
12.03 FW	7	
12.10 PM	9	
12.11 PM	6	
12.12 PM	7	
12.13 PM	6	12
12.14 PM	5	12
12:15 PM	6	
12.10 PM	5	
12.17 PM	7	
12:19 PM	8	
12:20 PM	8	
12:21 PM	7	
12:22 PM	8	
12:23 PM	7	
12:24 PM	9	
12:25 PM	7	
12:26 PM	8	
12:27 PM	8	
12:28 PM	9	
12:29 PM	10	10
12:30 PM	10	
12:31 PM	/	
12:32 PIVI	0 10	
12.33 FIVI	01	
12:34 FM	8	
12:36 PM	9	
12:37 PM	9	
12:38 PM	8	
12:39 PM	7	
12:40 PM	7	
12:41 PM	8	
12:42 PM	8	
12:43 PM	7	
12:44 PM	6	10
12:45 PM	7	
12:46 PM	7	
12:47 PM	9	
12:48 PM	10	
12:49 PIV	10	
12:50 PIVI	12	
12.51 FIVI	10	
12:53 PM	10	
12:54 PM	10	
12:55 PM	10	
12:56 PM	6	
12:57 PM	8	
12:58 PM	9	
12:59 PM	12	13
1:00 PM	11	



Site Code: 15248620 Date: 7/11/2020 Time: 5pm-7pm



Site Code: 15248620 Date: 7/11/2020 Time: 5pm-7pm

[Time	Queue	15-Min Peak
[6:01 PM	16	
	6:02 PM	15	
	6:03 PM	15	
[6:04 PM	15	
	6:05 PM	15	
	6:06 PM	14	
	6:07 PM	17	
	6:08 PM	22	
	6:09 PM	22	
	6:10 PM	19	
	6:11 PM	22	
	6:12 PM	21	
	6:13 PM	21	
	6:14 PM	20	22
	6:15 PM	19	
	6:16 PM	20	
	6:17 PM	19	
	0:18 PIM	10	
ŀ	0:13 HM	17	
	0:20 PIVI	10	
	6:22 PIVI	10	
	6.22 PIVI	19	
	6.23 PIVI	10	
	6.25 PM	15	
	6.26 PM	1/	
	6.27 PM	13	
	6.28 PM	15	
	6.29 PM	15	20
	6:30 PM	14	
	6:31 PM	15	
	6:32 PM	15	
ľ	6:33 PM	15	
ľ	6:34 PM	16	
ľ	6:35 PM	15	
Ì	6:36 PM	15	
ľ	6:37 PM	14	
Í	6:38 PM	12	
ľ	6:39 PM	11	
	6:40 PM	12	
[6:41 PM	11	
[6:42 PM	10	
[6:43 PM	9	
[6:44 PM	9	16
	6:45 PM	9	
ļ	6:46 PM	9	
ļ	6:47 PM	10	
	6:48 PM	10	
	6:49 PM	8	
	6:50 PM	9	
	6:51 PM	8	
	6:52 PM	8	
	6:53 PM	8	
	0:54 PM	10	
	0:55 PIV	12	
ŀ		13	
	6.59 DM	11	
	6-50 DM	11	13
	0.59 PIVI	11	13

Time	Queue	15-Min Peak
5:00 PM	13	
5:01 PM	12	
5:02 PM	12	
5:03 PM	12	
5:04 PM	12	
5:05 PM	13	
5:06 PM	15	
5:07 PM	14	
5:08 PM	13	
5:09 PM	10	
5:10 PM	10	
5:11 PM	14	
5:12 PM	14	
5:13 PM	14	
5:14 PM	13	15
5:15 PM	12	
5:16 PM	12	
5:17 PM	12	
5:18 PM	12	
5:19 PM	12	
5:20 PM	13	
5:21 PM	14	
5:22 PM	13	
5:23 PM	14	
5:24 PM	14	
5:25 PM	13	
5:26 PM	15	
5:27 PM	15	
5:28 PM	15	
5:29 PM	14	15
5:30 PM	15	
5:31 PM	15	
5:32 PM	14	
5:33 PM	15	
5:34 PIVI	14	
5:35 PIVI	12	
5:30 PIVI	12	
5:37 PIVI	11	
5:30 PIVI	15	
5.39 PIVI	13	
5.40 FIVI	13	
5.42 PM	12	
5.43 PM	11	
5.44 PM	12	15
5.45 PM	11	15
5:46 PM	14	
5:47 PM	14	
5:48 PM	13	
5:49 PM	15	
5:50 PM	15	
5:51 PM	14	
5:52 PM	14	
5:53 PM	13	
5:54 PM	17	
5:55 PM	15	
5:56 PM	16	
5:57 PM	16	
5:58 PM	16	
5:59 PM	16	17
6:00 PM	16	

	Survey Site		Mea	sured We	ekday Tri	ps	Measured Saturday Trips				
	Location	Size	Weekday PM Peak Hour				Saturday	Mid-Da	y (MD) Pea	ak Hour	
No.	City	(TSF)*	Daily	Total	In	Out	Daily	Total	In	Out	
1	Long Beach ¹	3.600	n/a	142	69	73	n/a	235	121	114	
2	Millbrae ¹	3.750	5,137	235	128	107	5,281	421	215	206	
3	Redwood City ¹	3.750	2,225	141	66	75	2,929	301	152	149	
4	Rocklin ¹	3.750	1,720	159	84	75	1,761	184	88	96	
5	Vacaville ¹	3.750	1,879	152	87	65	2,244	197	94	103	
6	Fairfield ¹	3.750	1,662	132	75	57	2,081	208	105	103	
Ave	rage	3.725	2,525	160	85	75	2,859	258	129	129	
Calcul	lated In-N-Out Trip Rates ²	(Trips/TSF)	673.33	42.95	22.82	20.13	762.40	69.26	34.63	34.63	
7	Vallejo (Proposed)	3.867	2,604	166	88	78	2,948	268	134	134	

Table 6 – In-N-Out Burger Site Traffic Survey and Trip Rate Calculation

 Typical inputation reaction
 496.12
 32.65
 16.98

 Restaurant With Drive-Thru (ITE 934)³
 496.12
 32.65
 16.98

Note: (See Appendix D for survey data sheets) * TSF = Thousand Square Feet

Typical Trip Rates for Fast-Food

The site locations are not fully isolated; therefore, trip counts at the site access points likely included some trips associated with adjacent land uses, resulting in slightly overstated trip generation counts and a conservative analysis.

15.67

722.03

59.00

30.09

28.91

Average trip rates per thousand square feet calculated based on the average trips of the 6 survey locations.

³ Institute of Transportation Engineers (ITE), <u>Trip Generation Manual</u>, 9th Edition, 2014.

4.2 Pass-By Trip Reduction Adjustment

As documented in the ITE *Trip Generation Manual* (9th Edition, 2012), a pass-by trip reduction adjustment is applicable to fast-food restaurant land uses located along busy arterial highways attracting vehicle trips already on the roadway; this is particularly the case when the roadway is experiencing peak operating conditions. For example, during the weekday PM peak hour, a motorist already traveling along Redwood Parkway between work and home or other destinations may stop and eat at the proposed restaurant before continuing to his intended destination. A pass-by discount under this example would reduce or eliminate both the inbound trip and the outbound trip from the surrounding roadway circulation system since the vehicle was already traveling on the roadway. Without the pass-by trip discount, two trips would be generated: an inbound trip to the project site, and an outbound trip from the project site.



			Ob	served* Drive	-Through Que	eue		
Day	Time	Long Beach	Millbrae	Redwood City	Rocklin	Vacaville	Fairfield	Average Queue
	4:00 - 4:15 PM	6	13	14	5	11	5	9
	4:15 - 4:30 PM	5	14	16	8	14	8	11
	4:30 - 4:45 PM	3	15	16	7	16	9	11
łay	4:45 - 5:00 PM	6	14	15	6	17	16	12
sekc	5:00 - 5:15 PM	5	13	14	8	13	17	12
Ŵ	5:15 - 5:30 PM	7	15	14	9	11	16	12
	5:30 - 5:45 PM	7	16	15	11	13	8	12
	5:45 - 6:00 PM	5	15	15	12	18	17	14
	Peak Queue	7	16	16	12	18	17	14
	12:00 - 12:15 PM	16	14	18	10	20	13	15
	12:15 - 12:30 PM	14	15	21	13	19	18	17
	12:30 - 12:45 PM	16	14	20	12	15	17	16
ay	12:45 - 1:00 PM	10	14	18	11	23	18	16
turd	1:00 - 1:15 PM	15	14	21	12	22	23	18 ¹
Sa	1:15 - 1:30 PM	16	13	20	14	28	17	18 ¹
	1:30 - 1:45 PM	10	14	19	13	27	15	16
	1:45 - 2:00 PM	9	15	21	12	29	18	17
	Peak Queue	16	15	21	14	29	23	20 ¹

Table 16 – Drive-Through Lane Vehicular Queue Observations

Note: (*See Appendix N for survey data sheets)

The average maximum observed drive-through queue is longer than the proposed drive-through lane adjacent to the proposed building, w hich has a minimum storage of 17 vehicles. Additional vehicles may queue on-site along the parking aisle (see Exhibit 22).

During the peak periods when the drive-through lane queue exceeds the storage length, In-N-Out will provide personnel to take food orders at the end of the drive-through queue to facilitate circulation and minimize the drive-through queue. The standard operational procedure for In-N-Out is to deploy associates with handheld wireless order tablets as soon as the queue exceeds 8 vehicles at the menu board, which will help facilitate efficient movements through the queue and direct traffic as needed. The staging for the overflow drive-through queue could be addressed by the store associates implementing traffic control measures to align the traffic to line up along the parking aisle to avoid spilling onto the street. Exhibit 22 shows the recommended traffic control measures including signage and pavement marking.

Another option is that the store associates could direct the overflow queuing vehicles to park at vacant parking spaces when the drive-through queue length reach the capacity of 17 vehicles. The drive-through queue length would be monitored by store associates so that the queue length will not exceed 17 vehicles and that the parking lot circulation aisles will remain clear.

To determine forecast trip generation of the proposed In-N-Out restaurant, trip generation sample surveys were conducted in May 2012 at the following three existing In-N-Out restaurants located in the Cities of Redondo Beach, Long Beach, and Los Angeles:

- Existing In-N-Out located at 6391 East Pacific Coast Highway, Long Beach, CA;
- Existing In-N-Out located at 9149 South Sepulveda Boulevard, Los Angeles, CA; and
- Existing In-N-Out located at 3801 Inglewood Avenue, Redondo Beach, CA.

The In-N-Out trip generation sample surveys were collected during the same time periods evaluated in this analysis (weekday 11:30 a.m. to 1:30 p.m., weekday 4:00 p.m. to 6:00 p.m., Saturday 11:30 a.m. to 1:30 p.m. and Saturday 4:00 p.m. to 6:00 p.m.). The trip generation data used in this analysis were taken from the highest hour within each peak period counted. Detailed traffic count data sheets are contained in Appendix A.

Table 8 summarizes the weekday peak hour trip generation for the surveyed In-N-Out locations.

Survey Location	Size	Weekday AM Peak Hour Trips			Weel Pea	kday Mic k Hour T	I-Day rips	Weekday PM Peak Hour Trips		
	(tsr)	In	Out	Total	In	Out	Total	In	Out	Total
Redondo Beach In-N-Out	2.8	0	0	0	136	135	271	94	89	183
Long Beach In-N-Out	3.6	0	0	0	138	135	273	69	73	142
Los Angeles In-N-Out	3.8	0	0	0	196	159	355	127	111	238
Average In-N-Out Weekday Trip Generation			0	0	157	143	300	97	91	188

 Table 8

 In-N-Out Weekday Trip Generation Survey Count Summary

Source: Observed data.

Note: tsf = thousand square feet.

As shown in Table 8, the surveyed In-N-Out restaurants currently generate approximately an average of 300 weekday mid-day peak hour trips and an average of 188 weekday p.m. peak hour trips. It should be noted the surveyed locations included outdoor seating patios similar to the proposed project.

Table 9 summarizes the Saturday peak hour trip generation for the surveyed In-N-Out locations.

Survey Location	Size	Saturday AM Peak Hour Trips			Saturday Mid-Day Peak Hour Trips			Saturday PM Peak Hour Trips		
	((5))	In	Out	Total	In	Out	Total	In	Out	Total
Redondo Beach In-N-Out	2.8	0	0	0	164	146	310	141	149	290
Long Beach In-N-Out	3.6	0	0	0	121	114	235	90	89	179
Los Angeles In-N-Out	3.8	0	0	0	224	200	424	119	113	232
Average In-N-Out Saturday Trip Generation			0	0	170	153	323	117	117	234

Table 9In-N-Out Saturday Trip Generation Survey Count Summary

Source: Observed data.

Note: tsf = thousand square feet.

As shown in Table 9, the surveyed In-N-Out restaurants currently generate approximately an average of 323 Saturday mid-day peak hour trips and an average of 234 Saturday p.m. peak hour trips. It should be noted the surveyed locations included outdoor seating patios similar to the proposed project.

Pass-by Trip Reduction

As documented in ITE's *Trip Generation Handbook (Institute of Transportation Engineers, 2nd Edition, 2004),* a pass-by trip reduction is applicable to fast food restaurant with drive-through and high turnover sit-down restaurant land uses located along busy arterial highways attracting vehicle trips already on the roadway; this is particularly the case when the roadway is experiencing peak operating conditions. For example, during the mid-day or p.m. peak hour, a motorist already traveling along Sepulveda Boulevard (SR-1) between work and home or other destinations may stop at the proposed project site. A pass-by discount under this example would reduce/eliminate both the inbound trip and the outbound trip from the surrounding roadway circulation system since the vehicle was already traveling on the roadway. Without the pass-by trip discount, two trips would be generated: an inbound trip to the project site, and an outbound trip from the project site.

Table 10 summarizes the pass-by trip reductions applicable to the proposed project land uses identified by Caltrans and utilized in this analysis which are conservatively lower than the passby trip reductions identified by ITE. For example, while ITE identifies a fast food restaurant with drive through pass-by trip reduction of 49 percent in the weekday mid-day peak and 50 percent in the weekday p.m. peak, Caltrans has identified a pass-by discount of 10 percent in the weekday mid-day peak and 25 percent in the weekday p.m. peak. Also, while ITE identifies a high turn over sit-down restaurant with pass-by trip reduction of 43 percent in the weekday mid-day peak and 43 percent in the weekday p.m. peak, Caltrans has identified a pass-by discount of 10 percent of 10 percent in the weekday p.m. peak, Caltrans has identified a pass-by discount of 10 percent in the weekday mid-day peak and 25 percent in the weekday p.m. peak, Caltrans has identified a pass-by discount of 10 percent in the weekday p.m. peak, Caltrans has identified a pass-by discount of 10 percent in the weekday p.m. peak. As shown in Table 61, with the addition of a second left-turn lane at the westbound Mariposa Avenue approach at Sepulveda Boulevard (SR-1), the left-turn movement queue is forecast to not queue back beyond the Ralphs Shopping Center for either forecast opening year without project conditions or forecast opening year with project conditions.

As also shown in Table 61, the westbound right-turn and through queue is forecast to slightly increase assuming the addition of a second westbound left-turn lane; this is a result of changing the traffic signal phasing from a permitted left-turn phase with a single left-turn lane (current traffic signal phasing) to a protected left-turn phase to accommodate dual side-by-side westbound left turn lanes.

IN-N-OUT BURGER DRIVE-THROUGH QUEUE ANALYSIS

An analysis has been prepared to evaluate the adequacy of the vehicular queue storage area provided for the proposed In-N-Out Burger drive-through as shown on the project site.

To forecast the vehicular queue at the proposed In-N-Out Burger, RBF has conducted sample survey field observations of vehicular queues at the following three existing In-N-Out Burger restaurants:

- Existing In-N-Out located at 6391 East Pacific Coast Highway, Long Beach, CA;
- Existing In-N-Out located at 9149 South Sepulveda Boulevard, Los Angeles, CA; and
- Existing In-N-Out located at 3801 Inglewood Avenue, Redondo Beach, CA.

The vehicular queues were observed and documented in 15-minute intervals from 10:00 a.m. to 12:00 midnight on a typical weekday and a typical Saturday in May 2012.

Table 62 summarizes the collected drive-through vehicular queue data collected at the three sample survey field In-N-Out restaurants.

		Weekd	lay Observe	d Queue (Ve	hicles)	Saturday Observed Queue (Vehicles)					
No.	Time	Long Beach In-N-Out	Los Angeles In-N-Out	Redondo Beach In-N-Out	Average	Long Beach In-N-Out	Los Angeles In-N-Out	Redondo Beach In-N-Out	Average		
1	10:00 AM	0	0	4	1	0	0	0	0		
2	10:15 AM	5	2	8	5	4	3	7	3		
3	10:30 AM	8	5	6	6	7	4	8	4		
4	10:45 AM	7	6	6	6	9	6	5	5		
5	11:00 AM	3	6	11	6	7	8	8	6		
6	11:15 AM	6	12	21	12	8	11	10	7		
7	11:30 AM	7	16	23	13	9	12	15	9		
8	11:45 AM	14	19	21	17	16	18	16	12		
9	12:00 PM	15	20	23	18	16	20	16	13		
10	12:15 PM	15	18	26	19	14	16	20	13		
11	12:30 PM	13	21	11	15	16	20	31	16		
12	12:45 PM	8	19	11	12	10	20	33	16		

Table 62Existing In-N-Out RestaurantsSummary of Drive-Through Vehicular Queue Observations

		Weeko	lay Observe	d Queue (Ve	hicles)	Saturday Observed Queue (Vehicles)					
No.	Time	Long Beach In-N-Out	Los Angeles In-N-Out	Redondo Beach In-N-Out	Average	Long Beach In-N-Out	Los Angeles In-N-Out	Redondo Beach In-N-Out	Average		
13	1:00 PM	12	22	17	17	15	23	35	18		
14	1:15 PM	13	21	16	15	16	22	36	18		
15	1:30 PM	8	20	11	11	10	20	31	15		
16	1:45 PM	7	20	9	11	9	20	28	14		
17	2:00 PM	8	21	10	13	12	21	26	15		
18	2:15 PM	7	21	8	12	13	26	23	16		
19	2:30 PM	8	22	15	15	9	22	21	13		
20	2:45 PM	6	21	13	13	8	21	18	11		
21	3:00 PM	6	18	10	11	9	18	12	9		
22	3:15 PM	5	17	12	11	9	17	14	10		
23	3:30 PM	4	16	14	11	6	17	8	9		
24	3:45 PM	5	18	13	12	9	9	19	9		
25	4:00 PM	6	17	16	12	8	10	22	10		
26	4:15 PM	5	15	19	12	10	14	26	11		
27	4:30 PM	3	12	17	10	8	18	24	12		
28	4:45 PM	6	10	18	11	5	8	18	9		
29	5:00 PM	5	9	22	11	9	8	14	9		
30	5:15 PM	7	14	24	13	10	9	13	10		
31	5:30 PM	7	17	23	14	10	20	20	12		
32	5:45 PM	5	19	16	12	9	19	19	12		
33	6:00 PM	12	20	18	15	13	20	25	13		
34	6:15 PM	7	19	23	14	9	19	18	12		
35	6:30 PM	10	20	25	16	10	20	22	13		
36	6:45 PM	12	18	26	17	14	18	19	12		
37	7:00 PM	10	17	23	16	12	19	23	12		
38	7:15 PM	11	18	27	17	13	20	22	12		
39	7:30 PM	7	19	19	16	9	21	24	12		
40	7:45 PM	6	20	21	16	9	22	25	14		
41	8:00 PM	8	21	23	17	10	21	22	12		
42	8:15 PM	6	19	22	15	9	22	23	13		
43	8:30 PM	9	19	18	13	11	18	19	12		
44	8:45 PM	10	20	28	18	12	17	18	11		
45	9:00 PM	12	18	27	19	13	16	12	11		
46	9:15 PM	16	19	16	17	17	19	13	11		
47	9:30 PM	14	20	17	17	15	18	9	10		
48	9:45 PM	15	19	16	17	10	20	14	9		
49	10:00 PM	14	21	15	17	12	19	20	11		
50	10:15 PM	13	17	18	16	14	18	23	12		

		Weeko	lay Observe	d Queue (Ve	hicles)	Saturday Observed Queue (Vehicles)					
No.	Time	Long Beach In-N-Out	Los Angeles In-N-Out	Redondo Beach In-N-Out	Average	Long Beach In-N-Out	Los Angeles In-N-Out	Redondo Beach In-N-Out	Average		
51	10:30 PM	12	16	19	16	13	19	26	13		
52	10:45 PM	12	14	16	14	11	18	22	12		
53	11:00 PM	11	16	15	14	9	21	21	13		
54	11:15 PM	13	17	13	14	10	17	23	12		
55	11:30 PM	9	15	12	12	8	16	19	10		
56	11:45 PM	8	13	11	11	6	14	12	7		
	Queue	16	22	28	19	17	26	36	18		

Note: Maximum queue value shown in **bold**; average queue value shone in **bold italics**.

As shown in Table 62, the maximum vehicular queue at each of the three observed locations is as follows:

- Long Beach In-N-Out: 16 vehicles on a typical weekday occurring at 9:15 p.m., and 17 vehicles on a typical Saturday occurring at 9:15 p.m.
- Los Angeles In-N-Out: 22 vehicles on a typical weekday occurring at 1:00 p.m. and 2:30 p.m., 26 vehicles on a typical Saturday occurring at 2:15 p.m.
- Redondo Beach In-N-Out: 28 vehicles on a typical weekday occurring at 8:45 p.m., 36 vehicles on a typical Saturday occurring at 1:15 p.m.

As also shown in Table 62, the average maximum vehicular queue at the three observed locations is 19 vehicles on a typical weekday and 18 vehicles on a typical Saturday.

It is important to note the Redondo Beach In-N-Out restaurant sample survey location is located at the Inglewood Avenue/I-405 interchange with high visibility and easy access with one of the busiest freeways in the nation, and therefore would be expected to generate higher traffic volumes and correspondingly higher vehicular queues than the proposed In-N-Out restaurant. Drive-through queue lengths at the Los Angeles In-N-Out restaurant sample survey location at Sepulveda Boulevard (SR-1) north of Los Angeles International Airport (LAX) would most likely represent similar drive-through queue lengths expected to occur at the proposed In-N-Out restaurant.

It should be noted the drive-through queue and its potential to affect the Queen Esther Square Shopping Center is more critical during the weekday mid-day lunch period since a number of businesses in the retail center would be closed during the evening. Additionally, the substantial daytime employee population generated by the large employment base in El Segundo is significantly diminished during weekday evening hours and Saturday/weekend hours.

Based on the proposed project site plan (*Gerdes, Henrichson & Associates, 12/11/2012*), the proposed project provides vehicular queue storage capacity for approximately 23 vehicles. Therefore, adequate vehicular queue storage is forecast to be provided for the proposed In-N-Out drive-through based on sample survey of other In-N-Out drive-through queues.

05.16.2012

Wednesday, May 16th, 2012	CITY:	Los Angeles					PROJECT:	In-N-Out Burger
AM Period IN OUT	N	1AXIMUM QUEUE PM	I Period	IN		OUT		MAXIMUM QUE
00:00		1	12:00	39		35		20
00:15		1	12:15	48		36		18
00:30		1	12:30	52		37		21
00:45		1	12:45	57	196	41	149	 19
01:00			12:00	30		45		22
01:15		1	13.00	36		46		22
01:30			13.30	35		41		21
01:45			13.45	x	110	X	132	20
02.00			14:00	χ	110	Λ	152	20
02:00		1	14:00					21
02:15			14:15					21
02:30		1	14:30					22
02:45		1	14:45					21
03:00		1	15:00					18
03:15		1	15:15					17
03:30		1	15:30					16
03:45		1	15:45					18
04:00		1	16:00	31		24		17
04:15		1	16:15	18		18		15
04:30		1	16:30	27		28		12
04:45		1	16:45	33	109	22	92	10
05:00		1	17:00	34		30		9
05:15		1	17:15	25		33		14
05:30		1	17:30	36		23		17
05:45		1	17:45	32	127	25	111	19
06:00		1	18:00	30		36		20
06:15		t	18:15					19
06:30		1	18:30					20
06:45		1	18:45					18
07:00		1	19:00					17
07:15		1	19:15					18
07:30		1	19:30					19
07:45		1	19:45					20
09:00			20:00					21
08:15		4	20.00					19
08:30			20.13					19
08:45		-	20:45					20
00.00			21.00					10
09:00		-	21.00					10
09:15		-	21:15					19
09:30		-	21:30					20
10.00			21.75					19
10:00		0 2	22:00					21
10:15		2 2	22:15					17
10:50		5 2 c	22:30					10
C#301		0 2	22:45					14
11:00		6 2	23:00					16
11:15		12 2	23:15					17
11:30 28 32		16 2	23:30					15
11:45 31 59 29 61	120	19 2	23:45					13
Total Vol. 59 61					542		484	

484

Daily	Totals
IN	OUT
601	545

PACIFIC TRAFFIC & TRANSIT DATA SERVICES

05/19/12	CITY: Los Angele	S					PROJECT:	In-N-Out Burg	er
AM Period IN OUT	MAXIMUM QUEUE	PM Period	IN		OUT				MAXIMUM QUEUE
00:00		12:00	49		38				20
00:15		12:15	49		41				16
00:30		12:30	51		43				20
00:45		12:45	66	215	57	179			20
01:00		13:00	53		49				23
01:15		13:15	54		51				22
01:30		13:30	49		54				20
01:45		13:45	X	156	X	154			20
02:00		14.00							21
02:00		14.00							21
02:30		14:30							20
02:45		14:45							21
02:00		15:00							19
03:15		15.00							17
03:30		15:30							17
03:45		15:45							9
04:00		16:00	20		24				10
04.00		16:15	20 37		24				10
04.30		16:30	38		20				18
04.45		16:45	25	128	34	103			8
05-00		17:00	15	120	26	105			0
05:00		17:00	15		20				0
05.15		17.15	20 43		50 74				20
05:45		17:30	33	119	27	113			19
05:15		10.00	25	115	20	115			20
06:15		18.00	X		У У				19
06:30		18.30	x		x				20
06:45		18:45	x	35	X	38			18
07:00		10.00							10
07:15		19.00							20
07:30		19:30							21
07:45		19:45							22
08:00		20.00							21
08:15		20:00							21
08:30		20:15							18
08:45		20:45							17
00.60		21.00							16
09:15		21:00							19
09:30		21:30							18
09:45		21:45							20
10.00		22.00							19
10:15	3	22:15							18
10:30	- 4	22:30							19
10:45	6	22:45							18
11:00	8	23:00							21
11:15	11	23:15							17
11:30 31 46	12	23:30							16
11:45 42 73 35 81	18	23:45							14
Total Vol. 73 81				653		587			

Daily	Totals				
IN	OUT				
726	668				

PACIFIC TRAFFIC & TRANSIT DATA SERVICES

Wednesday, May 16,2012

AM Period IN		OUT		MAXIMU	M QUEUE PM Pe	riod	IN		OUT		MAXIMUM (QUEUE
00:00					12:0	00 3	31		25		15	
00:15					12:1	.5	30		15		15	
00:30					12:3	0	52		50		13	
00:45					12:4	15	25	138	29	119		
01:00					13:0	00	29		29		12	
01:15					13:1	.5	32		27		13	
01:30					13:3	0	18		23		8	
01:45					13:4	15	Х	79	Х	79	7	
02:00					14:0	00					8	
02:15					14:1	.5					7	
02:30					14:3	0					8	
02:45					14:4	15					6	
03:00					15:0	0					6	
03:15					15:1	.5					5	
03:30					15:3	10					4	
03:45					15:4	15					5	
04:00					16:0	0	16		19		6	
04:15					16:1	5	12		17		5	
04:30					16:3	80	14		14		3	
04:45					16:4	15	16	58	10	60	6	
05.00					17:0	0	19		14		5	
05:15					17.0	5	20		19		7	
05:30					17:3	10	19		19		7	
05:45					17:4	5	11	69	21	73	5	
06:00					19.0	10	17		20		12	
06:15					18.1	5	X 17		20 X		7	
06:30					18.3	10	x		x		, 10	
06:45					18:4	15	x	17	x	20	12	
07:00					10:0	10					10	
07.00					19.0	5					10	
07:30					19.1	.5					7	
07:45					19:4	15					,	
09:00					20:0	1 <u>5</u>					0	
08:00					20:0	10 E					0	
08:15					20:1	.5					0	
00.30					20.3						5	
00:00					20.7						10	
09:00					21:0	10 F					12	
09:15					21:1	.5					10	
09.30					21.3						15	
09.45					21.4	C					15	
10:00					- 22:0	0					14	
10:15					22:1	.5 0					13	
10:30				-	22:3						12	
10:45				-	- 22:4	Ci					12	
11:00					3 23:0	0					11	
11:15		25		6	23:1	.5					13	
11:30 19	40	25	50	-	23:3	10					9	
11:45 21	40	27	52	1	4 23:4	5					8	
Total Vol.	40		52					361		351		

	Daily Total	
	IN	401
	OUT	361
PACIFIC TRAFFIC & TRANSIT	DATA SERVICES	

05.19.2012

M Deried IN OUT		DM Daviad	TNI		OUT		MAXIMUM OUF
	MAXIMUM QUEUE	12:00	17		17		
00:00		12:00	34		20		10
00:13		12.15	22		30		16
00:45		12:45	32	105	37	104	10
01:00		13.00	33		27		15
01:15		13.00	29		27		16
01:30		13:30	29		33		10
01:45		13:45	X	91	X	83	9
02.00		14.00					12
02:15		14:15					13
02:30		14:30					9
02:45		14:45					8
03.00		15.00					9
03:15		15:15					9
03:30		15:30					6
03:45		15:45					9
04.00		16.00	21		25		8
04:15		16:15	22		16		10
04:30		16:30	21		25		8
04:45		16:45	24	88	24	90	5
05:00		17.00	19		19		9
05:15		17:15	19		21		10
05:30		17:30	28		25		10
05:45		17:45	18	84	19	84	9
06:00		18:00	23		18		13
06:15		18:15					9
06:30		18:30					10
06:45		18:45	Х	23	Х	18	14
07:00		19:00					12
07:15		19:15					13
07:30		19:30					9
07:45		19:45					9
08:00		20:00					10
08:15		20:15					9
08:30		20:30					11
08:45		20:45					12
09:00		21:00					13
09:15		21:15					17
09:30		21:30					15
09:45		21:45					10
10:00		22:00					12
10:15	4	22:15					14
10:30	7	22:30					13
10:45	9	22:45					11
11:00	7	23:00					9
11:15	8	23:15					10
11:30 25 16	9	23:30					8
11:45 27 52 18 34	16	23:45					6

Daily	Total	
	IN	443
	OUT	391
DATAC		

PACIFIC TRAFFIC & TRANSIT DATA SERVICES

Apx-26

CITY: Redondo Beach

PROJECT: IN N OUT

			Prepared by						
AM Period IN	OUT		MAXIMUM QU	JEUE PM Period	IN		OUT		MAXIMUM QUEUE
00:00				12:00	32		24		23
00:15				12:15	42		42		26
00:30				12:30	36		29		11
00:45				12:45	27	137	38	133	11
01:00				13:00	31		26		17
01:15				13:15	28		23		16
01:30				13:30	32		31		11
01:45				13:45	Х	91	Х	80	9
02:00				14:00					10
02:15				14:15					8
02:30				14:30					15
02:45				14:45					13
03:00				15:00					10
03:15				15:15					12
03:30				15:30					14
03:45				15:45					13
04:00				16:00	17		16		16
04:15				16:15	18		19		19
04:30				16:30	29		24		17
04:45				16:45	18	82	23	82	18
05:00				17:00	28		23		22
05:15				17:15	19		19		24
05:30				17:30	24		21		23
05:45				17:45	28	99	21	84	16
06:00				18:00	13		26		18
06:15				18:15	Х		Х		23
06:30				18:30	Х		Х		25
06:45				18:45	Х	13	Х	26	26
07:00				19:00					23
07:15				19:15					27
07:30				19:30					19
07:45				19:45					21
08:00				20:00					23
08:15				20:15					22
08:30				20:30					18
08:45				20:45					28
09:00				21:00					27
09:15				21:15					16
09:30				21:30					17
09:45				21:45					16
10:00			4	22:00					15
10:15			8	22:15					18
10:30			6	22:30					19
10:45			<u> </u>	22:45					10
11:00			11	23:00					15
11:15	24		21	23:15					13
11:30 24 11:45 75 A	34 10 27	71	23	23:30					12
11.45 25 4	וכ בז	/1	21	23:43					11
Total Vol. 4	19	71				422		405	

Daily Total	
IN	471
OUT	476

PACIFIC TRAFFIC & TRANSIT DATA SERVICES

May 19 th, 2012

Saturday, Ma	ay 19th,2	2012			CITY:	Redon	do Beach					PROJECT:	IN N OUT
AM Period	IN		OUT		 MAXIMU	M QUEUE	PM Period	IN		OUT		MAXI	MUM QUEUE
00:00							12:00	26		28			16
00:15							12:15	36		34			20
00:30							12:30	29		25			31
00:45					 		12:45	49	140	40	127		33
01:00							13:00	48		42			35
01:15							13:15	38		39			36
01:30							13:30	40		58			31
01:45					 		13:45	Х	126	Х	139		28
02:00							14:00						26
02:15							14:15						23
02:30							14:30						21
02:45							14:45						18
03:00							15:00						12
03:15							15:15						14
03:30							15:30						8
03:45					 		15:45						19
04:00							16:00	46		40			22
04:15							16:15	45		38			26
04:30							16:30	31		31			24
04:45							16:45	19	141	40	149	-	18
05:00							17:00	33		25			14
05:15							17:15	24		27			13
05:30							17:30	28		27			20
05:45					 		17:45	23	108	34	113		19
06:00							18:00	35		26			25
06:15							18:15	Х		Х			18
06:30							18:30	Х		Х			22
06:45							18:45	Х	35	Х	26		19
07:00							19:00						23
07:15							19:15						22
07:30							19:30						24
07:45							19:45						25
08:00							20:00						22
08:15							20:15						23
08:30							20:30						19
08:45							20:45						18
09:00							21:00						12
09:15							21:15						13
09:30							21:30						9
09:45					 		21:45						14
10:00						0	22:00						20
10:15						7	22:15						23
10:30						8	22:30						26
10:45						5	22:45						22
11:00						8	23:00						21
11:15						10	23:15						23
11:30	24		34			15	23:30						19
11:45	25	49	37	71		16	23:45						12
Total Vol.		49		71					550		554		
									Daily	Total		1	

 IN
 599

 OUT
 625

PACIFIC TRAFFIC & TRANSIT DATA SERVICES

Page 1

Table 1	
Drive-Through Lane Queue Observation	

	Sat	urday	Su	nday	Mo	onday	Tu	esday	Wed	nesday	Thu	ursday	Fr	riday	Hourly	Hourly	Hourly 85th
	12/2	2/2017	12/3	3/2017	12/4	4/2017	12/5	5/2017	12/6	6/2017	12/7	7/2017	12/8	8/2017	Peak	Average	Percentile
Time	Corona	Highland	Corona	Highland	Corona	Highland	Corona	Highland	Corona	Highland	Corona	Highland	Corona	Highland	Queue	Queue	Queue
10:30-10:45	7	4	5	6	6	6	5	5	6	4	5	4	6	6	7	5.4	6.0
10:45-11:00	14	5	11	7	14	8	7	7	12	6	7	7	8	11	14	8.9	12.1
11:00-11:15	7	6	9	9	17	11	11	9	12	9	9	10	10	14	17	10.2	12.1
11:15-11:30	9	14	13	11	14	17	15	10	12	13	11	14	17	15	17	13.2	15.1
11:30-11:45	9	12	17	16	14	15	15	14	15	15	16	14	16	16	17	14.6	16.0
11:45-12:00	11	13	19	18	17	14	10	14	14	14	16	14	15	17	19	14.7	17.1
12:00-12:15	13	16	17	18	12	18	13	17	18	14	15	18	23	19	23	16.5	18.1
12:15-12:30	16	20	18	20	17	17	13	17	18	15	14	18	24	21	24	17.7	20.1
12:30-12:45	20	20	23	20	20	16	13	19	16	15	13	17	23	21	23	18.3	21.1
12:45-1:00	22	21	24	19	15	13	17	18	13	11	14	18	17	20	24	17.3	21.1
1:00-1:15	22	18	24	19	14	14	11	17	13	7	16	18	14	19	24	16.1	19.2
1:15-1:30	23	20	23	19	11	11	14	13	16	10	18	14	15	14	23	15.8	20.2
1:30-1:45	24	20	22	18	11	14	11	13	15	10	17	13	16	16	24	15.7	20.1
1:45-2:00	23	22	17	17	10	14	10	18	13	3	14	13	15	18	23	14.8	18.2
2:00-2:15	22	17	18	15	15	13	11	15	16	14	10	16	15	17	22	15.3	17.1
2:15-2:30	23	17	17	17	17	18	16	16	16	15	13	19	13	18	23	16.8	18.1
2:30-2:45	24	14	23	18	18	14	15	13	12	14	13	16	13	15	24	15.9	18.3
2:45-3:00	20	17	14	15	12	15	14	12	10	13	13	18	15	15	20	14.5	17.1
3:00-3:15	20	16	18	16	18	18	23	14	17	12	14	16	16	18	23	16.9	18.1
3:15-3:30	17	18	14	19	15	18	19	12	18	13	14	14	18	18	19	16.2	18.1
3:30-3:45	17	14	16	19	18	17	17	10	11	17	16	19	17	19	19	16.2	19.0
3:45-4:00	15	12	17	16	16	18	12	11	15	16	14	18	15	17	18	15.1	17.1
4:00-4:15	18	14	20	14	12	15	9	14	12	14	15	15	17	13	20	14.4	17.1
4:15-4:30	16	15	18	14	16	13	10	16	9	12	11	16	11	19	19	14.0	16.1
4:30-4:45	16	14	17	16	17	15	14	14	10	15	9	14	11	17	17	14.2	17.0
4:45-5:00	16	15	17	18	14	18	12	15	16	14	15	17	13	16	18	15.4	17.1
5:00-5:15	23	15	15	19	16	15	13	14	23	13	18	19	13	15	23	16.5	19.2
5:15-5:30	24	18	17	20	23	13	12	13	18	17	21	19	16	19	24	17.9	21.1
5:30-5:45	24	22	23	19	16	16	13	19	16	16	16	18	23	19	24	18.6	23.0
5:45-6:00	23	17	23	18	15	20	13	19	17	18	18	21	15	20	23	18.4	21.1
6:00-6:15	18	23	24	21	12	20	12	18	18	20	23	21	19	23	24	19.4	23.0
6:15-6:30	23	19	24	21	15	19	17	17	23	13	24	19	17	22	24	19.5	23.1 *
6:30-6:45	23	19	25	20	23	19	23	17	23	16	24	18	18	17	25 *	20.4 *	23.1 *
6:45-7:00	20	19	25	19	24	18	17	15	17	14	23	17	15	18	25 *	18.6	23.1 *
7:00-7:15	23	21	24	17	23	16	18	14	14	13	13	16	17	19	24	17.7	23.0
7:15-7:30	15	19	24	18	16	15	15	15	16	15	17	21	18	20	24	17.4	20.1
7:30-7:45	14	17	23	18	12	12	14	16	13	12	16	19	23	21	23	16.4	21.1
7:45-8:00	16	15	23	19	14	15	12	17	13	17	20	19	24	19	24	17.4	20.2
8:00-8:15	15	18	15	20	14	18	12	13	14	18	17	14	23	18	23	16.4	18.1
8:15-8:30	16	19	15	17	15	13	13	16	12	16	14	14	17	17	19	15.3	17.0
8:30-8:45	17	21	16	15	14	13	14	13	10	17	15	12	16	17	21	15.0	17.0
8:45-9:00	14	19	14	14	14	12	10	13	14	19	15	14	13	15	19	14.3	15.2
9:00-9:15	17	20	12	16	14	11	12	14	11	18	13	15	15	18	20	14.7	18.0
9:15-9:30	12	20	10	16	15	14	9	15	11	16	15	19	15	17	20	14.6	17.1
9:30-9:45	16	18	13	17	11	15	8	12	8	14	10	18	16	16	18	13.7	17.1
9:45-10:00	12	17	15	16	9	12	8	11	11	12	13	16	11	16	17	12.8	16.0
10:00-10:15	13	20	12	13	14	10	7	10	12	13	13	15	12	14	20	12.7	14.1
10:15-10:30	12	19	9	12	9	9	6	10	11	15	13	14	15	14	19	12.0	15.0
10:30-10:45	14	18	13	12	11	8	6	8	7	14	11	11	15	14	18	11.6	14.1
10:45-11:00	19	18	11	13	9	7	7	7	8	10	9	11	14	14	19	11.2	14.2
11:00-11:15	20	15	8	15	8	8	6	7	6	11	8	10	13	11	20	10.4	15.0
11:15-11:30	16	17	12	16	6	7	5	8	5	9	7	9	11	12	17	10.0	16.0
11:30-11:45	14	19	10	12	7	6	4	6	4	7	5	8	11	10	19	8.8	12.1
11:45-12:00	12	16	8	9	5	5	4	5	5	8	6	9	11	9	16	8.0	11.1
12:00-12:15	11	16	5	8	5	5	3	6	4	6	4	7	11	8	16	7.1	11.0
12:15-12:30	11	15	7	7	4	4	3	4	3	5	3	5	11	7	15	6.4	11.0
12:30-12:45	13	9	6	5	3	3	3	3	2	3	3	4	11	3	13	5.1	9.1
12:45-1:00	13	8	4	4	2	2	2	2	2	2	2	2	11	5	13	4.4	8.2
Site Peak	24	23	25	21	24	20	23	19	23	20	24	21	24	23			
Queue			<u> </u>							_0							
Site Average Queue	16.8	16.6	16.1	15.5	13.4	13.1	11.3	12.6	12.5	12.6	13.3	14.6	15.2	15.8			
Site 85th Percentile	23.0	20.0	23.0	19.0	17.0	18.0	15.5	17.0	17.0	16.5	17.5	19.0	18.0	19.0			
Queue	1		1		I												

Table 2
Estimated Project Drive-Through Lane Queue Demand

TimePeak QueueAverage QueueQueue15-Vehicle Capace10:30-10:4575.46.0-10:45-11:00148.912.1-11:00-11:151710.212.1-11:15-11:301713.215.1-11:30-11:451714.616.0111:45-12:001914.717.1212:00-12:152316.518.1312:15-12:302417.720.1512:30-12:452318.321.161:00-11:152416.119.241:15-1:302315.820.251:30-1:452415.720.151:30-1:452415.720.151:30-1:452415.720.151:45-2:002314.818.232:00-2:152215.317.122:15-2:302316.818.132:30-2:452415.918.332:45-3:002014.517.12	
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	ty
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12:00-12:15 23 16:5 18:1 3 12:15-12:30 24 17.7 20.1 5 12:30-12:45 23 18:3 21.1 6 12:45-1:00 24 17.3 21.1 6 12:45-1:00 24 17.3 21.1 6 1:00-1:15 24 16.1 19.2 4 1:15-1:30 23 15.8 20.2 5 1:30-1:45 24 15.7 20.1 5 1:30-1:45 24 15.7 20.1 5 1:30-1:45 24 15.7 20.1 5 1:45-2:00 23 14.8 18.2 3 2:00-2:15 22 15.3 17.1 2 2:15-2:30 23 16.8 18.1 3 2:30-2:45 24 15.9 18.3 3 2:45-3:00 20 14.5 17.1 2	
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Appendix B Existing Traffic Counts and COVID-Adjustment Calculations

Type of peak hour being reported: Intersection Peak

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5:20 PM 5:25 PM	4 9	8 6	0	0	2	12	4	0	2 4	1	8	0	2	0	1	0	45 51	645 644
5:30 PM 5:35 PM	6 1	8 13	0 0	0 0	1 0	15 11	7 3	0 0	4 0	0 0	9 7	0 0	0 1	0 0	1 0	0 0	51 36	640 617
5:40 PM	8	6	0	0	0	11	7	0	3	0	10 13	0	2	0	2	0	49	602 604
5:50 PM	2	8	0	0	1	18	3	0	2	2	6	0	3	1	0	0	46	605 601
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Heavy Trucks Buses	0	0	0	0	0	8	0	Ū	0	0	0	0	0	0	0	J	8	3
Pedestrians Bicycles Scooters	0	0 0	0		0	0 0	0		0	0 0	0		0	8 0	0		8 C)

Comments:

Report generated on 9/28/2021 4:09 PM

Comments:

Report generated on 9/28/2021 4:09 PM

QC JOB #: 15567103

DATE: Tue, Sep 21 2021

LOCATION: Uwajimaya Entrance -- Beaverton Hillsdale Hwy CITY/STATE: Beaverton, OR

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Comments:

Report generated on 9/28/2021 4:09 PM

Comments:

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QC JOB #: 15567105

DATE: Tue, Sep 21 2021

LOCATION: Hawaiian Time East Dwy -- Beaverton Hillsdale Hwy CITY/STATE: Beaverton, OR

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All Vehicles Heavy Trucks	0 0	0 0	0	0	0 0	0 0	4	0	0 0	1176 24	0	0	0 0	1308 24	0	0	24 4	88 8	
Buses Pedestrians Bicycles Scooters	0	12 0	0		0	0 0	0		0	0 0	0		0	0 0	0		1 (2	

Comments:

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Comments:

Report generated on 9/28/2021 4:09 PM



Exhibit J Page 74 of 143



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Exhibit J Page 76 of 143

Appendix C 2023 Intersection Operations

Exhibit J Page 77 of 143 4.7

Intersection

Int Delay, s/veh

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		\$			÷			÷			¢	
Traffic Vol, veh/h	37	1	111	23	2	2	76	141	14	9	185	63
Future Vol, veh/h	37	1	111	23	2	2	76	141	14	9	185	63
Conflicting Peds, #/hr	1	0	1	1	0	1	6	0	3	3	0	6
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None									
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	1	-
Peak Hour Factor	87	87	87	87	87	87	87	87	87	87	87	87
Heavy Vehicles, %	0	0	0	0	0	0	1	1	0	0	2	0
Mvmt Flow	43	1	128	26	2	2	87	162	16	10	213	72

Major/Minor	Minor2		Ν	linor1		[Major1		Ν	/lajor2			
Conflicting Flow All	622	630	256	682	658	174	291	0	0	181	0	0	
Stage 1	275	275	-	347	347	-	-	-	-	-	-	-	
Stage 2	347	355	-	335	311	-	-	-	-	-	-	-	
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.11	-	-	4.1	-	-	
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-	
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-	
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.209	-	-	2.2	-	-	
Pot Cap-1 Maneuver	402	401	788	367	387	875	1276	-	-	1407	-	-	
Stage 1	736	686	-	673	638	-	-	-	-	-	-	-	
Stage 2	673	633	-	683	662	-	-	-	-	-	-	-	
Platoon blocked, %								-	-		-	-	
Mov Cap-1 Maneuver	r 371	365	784	286	352	872	1270	-	-	1404	-	-	
Mov Cap-2 Maneuver	r 371	365	-	286	352	-	-	-	-	-	-	-	
Stage 1	677	676	-	621	588	-	-	-	-	-	-	-	
Stage 2	617	584	-	565	653	-	-	-	-	-	-	-	

Approach	EB	WB	NB	SB	
HCM Control Delay, s	13.2	18.1	2.6	0.3	
HCM LOS	В	С			

Minor Lane/Major Mvmt	NBL	NBT	NBR E	BLn1V	VBLn1	SBL	SBT	SBR	
Capacity (veh/h)	1270	-	-	611	305	1404	-	-	
HCM Lane V/C Ratio	0.069	-	-	0.28	0.102	0.007	-	-	
HCM Control Delay (s)	8	0	-	13.2	18.1	7.6	0	-	
HCM Lane LOS	А	А	-	В	С	А	А	-	
HCM 95th %tile Q(veh)	0.2	-	-	1.1	0.3	0	-	-	

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Int Delay, s/veh	2.2						
Movement	EBT	EBR	WBL	WBT	NBL	NBR	
Lane Configurations	et 👘			ب	Y		
Traffic Vol, veh/h	7	3	0	11	7	0	
Future Vol, veh/h	7	3	0	11	7	0	
Conflicting Peds, #/hr	0	2	2	0	0	0	
Sign Control	Free	Free	Free	Free	Stop	Stop	
RT Channelized	-	None	-	None	-	None	
Storage Length	-	-	-	-	0	-	
Veh in Median Storage,	# 0	-	-	0	0	-	
Grade, %	0	-	-	0	0	-	
Peak Hour Factor	58	58	58	58	58	58	
Heavy Vehicles, %	0	0	0	0	0	0	
Mvmt Flow	12	5	0	19	12	0	

Major/Minor	Major1	Ν	/lajor2	1	Vinor1	
Conflicting Flow All	0	0	19	0	36	17
Stage 1	-	-	-	-	17	-
Stage 2	-	-	-	-	19	-
Critical Hdwy	-	-	4.1	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	-	-	2.2	-	3.5	3.3
Pot Cap-1 Maneuver	-	-	1611	-	982	1068
Stage 1	-	-	-	-	1011	-
Stage 2	-	-	-	-	1009	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuve	r -	-	1608	-	980	1066
Mov Cap-2 Maneuve	r -	-	-	-	980	-
Stage 1	-	-	-	-	1009	-
Stage 2	-	-	-	-	1009	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	8.7
HCM LOS			А

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	980	-	-	1608	-
HCM Lane V/C Ratio	0.012	-	-	-	-
HCM Control Delay (s)	8.7	-	-	0	-
HCM Lane LOS	А	-	-	А	-
HCM 95th %tile Q(veh)	0	-	-	0	-

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HCM 6th Signalized Intersection Summary 3: SW 107th Ave & SW Beaverton Hillsdale Hwy

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	۲	A		ሻ	A			र्स	1		र्स	1
Traffic Volume (veh/h)	80	955	28	5	1157	124	74	38	12	203	37	89
Future Volume (veh/h)	80	955	28	5	1157	124	74	38	12	203	37	89
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.98	1.00		0.97	1.00		0.99	0.99		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1885	1870	1870	1900	1870	1870	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	86	1027	30	5	1244	133	80	41	13	218	40	96
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	1	2	2	0	2	2	0	0	0	0	0	0
Cap, veh/h	294	2410	70	370	2119	226	263	126	324	303	45	324
Arrive On Green	0.03	0.68	0.68	0.01	0.66	0.66	0.20	0.20	0.20	0.20	0.20	0.20
Sat Flow, veh/h	1795	3523	103	1810	3230	344	1054	620	1598	1224	225	1598
Grp Volume(v), veh/h	86	518	539	5	682	695	121	0	13	258	0	96
Grp Sat Flow(s),veh/h/ln	1795	1777	1849	1810	1777	1798	1674	0	1598	1448	0	1598
Q Serve(g_s), s	1.8	15.6	15.6	0.1	25.7	26.0	0.0	0.0	0.8	13.5	0.0	6.1
Cycle Q Clear(g_c), s	1.8	15.6	15.6	0.1	25.7	26.0	7.2	0.0	0.8	20.7	0.0	6.1
Prop In Lane	1.00		0.06	1.00		0.19	0.66		1.00	0.84		1.00
Lane Grp Cap(c), veh/h	294	1215	1265	370	1165	1179	389	0	324	349	0	324
V/C Ratio(X)	0.29	0.43	0.43	0.01	0.59	0.59	0.31	0.00	0.04	0.74	0.00	0.30
Avail Cap(c_a), veh/h	511	1215	1265	437	1165	1179	512	0	453	465	0	453
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	9.7	8.5	8.5	7.5	11.5	11.6	41.0	0.0	38.5	46.4	0.0	40.6
Incr Delay (d2), s/veh	0.5	1.1	1.1	0.0	2.2	2.2	0.5	0.0	0.1	4.3	0.0	0.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%IIe BackOfQ(95%),Ven/In	1.2	9.8	10.1	0. I	15.2	15.4	5.7	0.0	0.6	12.5	0.0	4.5
Unsig. Wovement Delay, s/ven	10.0	0 5	0 5	7 /	107	12.0	<u>41</u> Г	0.0	20 F	F0 7	0.0	11 1
LnGrp Delay(d),s/ven	10.2	9.5	9.5	/.6	I3.7	13.8	41.5	0.0	38.5	50.7	0.0	41.1
	Б	A	A	A	1202	В	D	104	D	U	A	<u>D</u>
Approach Vol, ven/n		1143			1382			134			304	
Approach LOS		9.0			13.7 D			41.Z			48. I	
Approach LOS		A			Б			U			U	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	5.1	86.6		28.3	8.5	83.2		28.3				
Change Period (Y+Rc), s	4.5	4.5		4.0	4.5	4.5		4.0				
Max Green Setting (Gmax), s	5.1	67.9		34.0	18.5	54.5		34.0				
Max Q Clear Time (g_c+I1), s	2.1	17.6		22.7	3.8	28.0		9.2				
Green Ext Time (p_c), s	0.0	8.5		1.5	0.1	11.1		0.7				
Intersection Summary												
HCM 6th Ctrl Delay			17.4									
HCM 6th LOS			В									

Int Delay, s/veh

Int Delay, s/veh	0						
Movement	EBL	EBT	WBT	WBR	SBL	SBR	
Lane Configurations	۳	- 11			Y		
Traffic Vol, veh/h	0	1170	1283	0	0	3	
Future Vol, veh/h	0	1170	1283	0	0	3	
Conflicting Peds, #/hr	6	0	0	6	0	0	
Sign Control	Free	Free	Free	Free	Stop	Stop	
RT Channelized	-	None	-	None	-	None	
Storage Length	75	-	-	-	0	-	
Veh in Median Storage	,# -	0	0	-	0	-	
Grade, %	-	0	0	-	0	-	
Peak Hour Factor	94	94	94	94	94	94	
Heavy Vehicles, %	0	2	2	0	0	0	
Mvmt Flow	0	1245	1365	0	0	3	

Major/Minor	Major1	Maj	or2	Ν	/linor2			
Conflicting Flow All	1371	0	-	0	1994	689		
Stage 1	-	-	-	-	1371	-		
Stage 2	-	-	-	-	623	-		
Critical Hdwy	4.1	-	-	-	6.8	6.9		
Critical Hdwy Stg 1	-	-	-	-	5.8	-		
Critical Hdwy Stg 2	-	-	-	-	5.8	-		
Follow-up Hdwy	2.2	-	-	-	3.5	3.3		
Pot Cap-1 Maneuver	507	-	-	-	54	393		
Stage 1	-	-	-	-	205	-		
Stage 2	-	-	-	-	503	-		
Platoon blocked, %		-	-	-				
Mov Cap-1 Maneuver	r 504	-	-	-	53	391		
Mov Cap-2 Maneuver	r -	-	-	-	151	-		
Stage 1	-	-	-	-	204	-		
Stage 2	-	-	-	-	500	-		

Approach	EB	WB	SB
HCM Control Delay, s	0	0	14.3
HCM LOS			В

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR SBLn1
Capacity (veh/h)	504	-	-	- 391
HCM Lane V/C Ratio	-	-	-	- 0.008
HCM Control Delay (s)	0	-	-	- 14.3
HCM Lane LOS	A	-	-	- B
HCM 95th %tile Q(veh)	0	-	-	- 0

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Int Delay, s/veh	2.4						
Movement	EBT	EBR	WBL	WBT	NBL	NBR	
Lane Configurations	h		1		Y		
Traffic Vol, veh/h	1095	73	56	1255	27	62	
Future Vol, veh/h	1095	73	56	1255	27	62	
Conflicting Peds, #/hr	0	9	9	0	0	0	
Sign Control	Free	Free	Free	Free	Stop	Stop	
RT Channelized	-	None	-	None	-	None	
Storage Length	-	-	75	-	0	-	
Veh in Median Storage,	,# 0	-	-	0	0	-	
Grade, %	0	-	-	0	0	-	
Peak Hour Factor	94	94	94	94	94	94	
Heavy Vehicles, %	2	0	0	2	4	0	
Mvmt Flow	1165	78	60	1335	29	66	

Major/Minor	Major1	Ν	/lajor2		Minor1		
Conflicting Flow All	0	0	1252	0	2001	631	
Stage 1	-	-	-	-	1213	-	
Stage 2	-	-	-	-	788	-	
Critical Hdwy	-	-	6.9	-	6.88	6.9	
Critical Hdwy Stg 1	-	-	-	-	5.88	-	
Critical Hdwy Stg 2	-	-	-	-	5.88	-	
Follow-up Hdwy	-	-	6.9	-	3.54	3.3	
Pot Cap-1 Maneuver	-	-	125	-	51	429	
Stage 1	-	-	-	-	240	-	
Stage 2	-	-	-	-	403	-	
Platoon blocked, %	-	-		-			
Mov Cap-1 Maneuver	r -	-	124	-	~ 26	425	
Mov Cap-2 Maneuver	r -	-	-	-	113	-	
Stage 1	-	-	-	-	238	-	
Stage 2	-	-	-	-	208	-	

Approach	EB	WB	NB
HCM Control Delay, s	0	2.5	31
HCM LOS			D

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT	
Capacity (veh/h)	231	-	-	124	-	
HCM Lane V/C Ratio	0.41	-	-	0.48	-	
HCM Control Delay (s)	31	-	-	58.3	-	
HCM Lane LOS	D	-	-	F	-	
HCM 95th %tile Q(veh)	1.9	-	-	2.2	-	
Notes						

-: Volume exceeds capacity \$: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon

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Int Delay, s/veh

Int Delay, s/veh	0								
Movement	EBL	EBT	WBT	WBR	SBL	SBR			
Lane Configurations	۲.	- 11			Y				
Traffic Vol, veh/h	1	1158	1308	0	0	5			
Future Vol, veh/h	1	1158	1308	0	0	5			
Conflicting Peds, #/hr	3	0	0	3	0	0			
Sign Control	Free	Free	Free	Free	Stop	Stop			
RT Channelized	-	None	-	None	-	None			
Storage Length	75	-	-	-	0	-			
Veh in Median Storage	e,# -	0	0	-	0	-			
Grade, %	-	0	0	-	0	-			
Peak Hour Factor	95	95	95	95	95	95			
Heavy Vehicles, %	0	2	2	0	0	0			
Mvmt Flow	1	1219	1377	0	0	5			

Major/Minor	Major1	Maj	or2	Ν	/linor2		
Conflicting Flow All	1380	0	-	0	1992	692	
Stage 1	-	-	-	-	1380	-	
Stage 2	-	-	-	-	612	-	
Critical Hdwy	4.1	-	-	-	6.8	6.9	
Critical Hdwy Stg 1	-	-	-	-	5.8	-	
Critical Hdwy Stg 2	-	-	-	-	5.8	-	
Follow-up Hdwy	2.2	-	-	-	3.5	3.3	
Pot Cap-1 Maneuver	503	-	-	-	54	391	
Stage 1	-	-	-	-	202	-	
Stage 2	-	-	-	-	509	-	
Platoon blocked, %		-	-	-			
Mov Cap-1 Maneuver	r 502	-	-	-	54	390	
Mov Cap-2 Maneuver	r -	-	-	-	151	-	
Stage 1	-	-	-	-	201	-	
Stage 2	-	-	-	-	507	-	

Approach	EB	WB	SB	
HCM Control Delay, s	0	0	14.4	
HCM LOS			В	

Minor Long/Major Mumt	ГЛ	FDT		
winor Lane/wajor wwm	EBL	EBT	WBI	MRK 2RFUI
Capacity (veh/h)	502	-	-	- 390
HCM Lane V/C Ratio	0.002	-	-	- 0.013
HCM Control Delay (s)	12.2	-	-	- 14.4
HCM Lane LOS	В	-	-	- B
HCM 95th %tile Q(veh)	0	-	-	- 0

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Int Delay s/veh

Int Delay, s/veh	0.1						
Movement	EBL	EBT	WBT	WBR	SBL	SBR	
Lane Configurations	- ኘ	- 11	_ ≜ î≽			1	
Traffic Vol, veh/h	8	1150	1305	10	2	3	
Future Vol, veh/h	8	1150	1305	10	2	3	
Conflicting Peds, #/hr	4	0	0	4	0	0	
Sign Control	Free	Free	Free	Free	Stop	Stop	
RT Channelized	-	None	-	None	-	None	
Storage Length	75	-	-	-	-	0	
Veh in Median Storage	,# -	0	0	-	0	-	
Grade, %	-	0	0	-	0	-	
Peak Hour Factor	94	94	94	94	94	94	
Heavy Vehicles, %	0	2	2	0	0	0	
Mvmt Flow	9	1223	1388	11	2	3	

Major/Minor	Major1	Majo	or2	Ν	/linor2		
Conflicting Flow All	1403	0	-	0	2028	704	
Stage 1	-	-	-	-	1398	-	
Stage 2	-	-	-	-	630	-	
Critical Hdwy	4.1	-	-	-	6.8	6.9	
Critical Hdwy Stg 1	-	-	-	-	5.8	-	
Critical Hdwy Stg 2	-	-	-	-	5.8	-	
Follow-up Hdwy	2.2	-	-	-	3.5	3.3	
Pot Cap-1 Maneuver	493	-	-	-	51	384	
Stage 1	-	-	-	-	198	-	
Stage 2	-	-	-	-	498	-	
Platoon blocked, %		-	-	-			
Mov Cap-1 Maneuve	r 491	-	-	-	50	383	
Mov Cap-2 Maneuve	r -	-	-	-	145	-	
Stage 1	-	-	-	-	194	-	
Stage 2	-	-	-	-	496	-	

Approach	EB	WB	SB	
HCM Control Delay, s	0.1	0	14.5	
HCM LOS			В	

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR SBLn1
Capacity (veh/h)	491	-	-	- 383
HCM Lane V/C Ratio	0.017	-	-	- 0.008
HCM Control Delay (s)	12.5	-	-	- 14.5
HCM Lane LOS	В	-	-	- B
HCM 95th %tile Q(veh)	0.1	-	-	- 0

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Intersection

Int Delay, s/veh

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	37	1	111	17	2	1	76	149	14	6	195	63
Future Vol, veh/h	37	1	111	17	2	1	76	149	14	6	195	63
Conflicting Peds, #/hr	1	0	1	1	0	1	6	0	3	3	0	6
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None									
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	1	-
Peak Hour Factor	87	87	87	87	87	87	87	87	87	87	87	87
Heavy Vehicles, %	0	0	0	0	0	0	1	1	0	0	2	0
Mvmt Flow	43	1	128	20	2	1	87	171	16	7	224	72

Major/Minor	Minor2		Ν	linor1		l	Major1		Ν	Aajor2			
Conflicting Flow All	636	644	267	696	672	183	302	0	0	190	0	0	
Stage 1	280	280	-	356	356	-	-	-	-	-	-	-	
Stage 2	356	364	-	340	316	-	-	-	-	-	-	-	
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.11	-	-	4.1	-	-	
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-	
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-	
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.209	-	-	2.2	-	-	
Pot Cap-1 Maneuver	393	394	777	359	380	865	1265	-	-	1396	-	-	
Stage 1	731	683	-	666	633	-	-	-	-	-	-	-	
Stage 2	666	627	-	679	659	-	-	-	-	-	-	-	
Platoon blocked, %								-	-		-	-	
Mov Cap-1 Maneuver	r 364	359	773	279	346	862	1259	-	-	1393	-	-	
Mov Cap-2 Maneuver	r 364	359	-	279	346	-	-	-	-	-	-	-	
Stage 1	672	675	-	613	583	-	-	-	-	-	-	-	
Stage 2	611	577	-	562	652	-	-	-	-	-	-	-	

Approach	EB	WB	NB	SB	
HCM Control Delay, s	13.4	18.2	2.6	0.2	
HCM LOS	В	С			

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1\	WBLn1	SBL	SBT	SBR	
Capacity (veh/h)	1259	-	-	601	295	1393	-	-	
HCM Lane V/C Ratio	0.069	-	-	0.285	0.078	0.005	-	-	
HCM Control Delay (s)	8.1	0	-	13.4	18.2	7.6	0	-	
HCM Lane LOS	А	А	-	В	С	А	А	-	
HCM 95th %tile Q(veh)	0.2	-	-	1.2	0.3	0	-	-	

2023 Total PM (Site Access Scenario 1) Kittelson & Associates, Inc.

/ _ _ _ _ + _ + _ + _ + _ /

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	<u>۲</u>	≜ †⊅		<u>۲</u>	_ ≜ î≽			्र	1		र्भ	1	
Traffic Volume (veh/h)	80	990	28	5	1184	132	74	38	12	211	37	87	
Future Volume (veh/h)	80	990	28	5	1184	132	74	38	12	211	37	87	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		0.98	1.00		0.97	1.00		0.99	0.99		0.99	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac	:h	No			No			No			No		
Adj Sat Flow, veh/h/ln	1885	1870	1870	1900	1870	1870	1900	1900	1900	1900	1900	1900	
Adj Flow Rate, veh/h	86	1065	30	5	1273	142	80	41	13	227	40	94	
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	
Percent Heavy Veh, %	1	2	2	0	2	2	0	0	0	0	0	0	
Cap, veh/h	281	2394	67	352	2091	232	270	129	332	311	45	332	
Arrive On Green	0.03	0.68	0.68	0.01	0.65	0.65	0.21	0.21	0.21	0.21	0.21	0.21	
Sat Flow, veh/h	1795	3527	99	1810	3215	357	1060	621	1599	1231	217	1599	
Grp Volume(v), veh/h	86	536	559	5	701	714	121	0	13	267	0	94	
Grp Sat Flow(s), veh/h/li	n1795	1777	1849	1810	1777	1795	1681	0	1599	1447	0	1599	
Q Serve(q s), s	1.9	16.7	16.7	0.1	27.3	27.7	0.0	0.0	0.8	14.3	0.0	5.9	
Cycle Q Clear(q c), s	1.9	16.7	16.7	0.1	27.3	27.7	7.2	0.0	0.8	21.5	0.0	5.9	
Prop In Lane	1.00		0.05	1.00		0.20	0.66		1.00	0.85		1.00	
Lane Grp Cap(c), veh/h	281	1206	1255	352	1156	1167	399	0	332	356	0	332	
V/C Ratio(X)	0.31	0.44	0.44	0.01	0.61	0.61	0.30	0.00	0.04	0.75	0.00	0.28	
Avail Cap(c a), veh/h	497	1206	1255	419	1156	1167	514	0	453	465	0	453	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00	
Uniform Delay (d), s/vel	h10.4	8.9	8.9	7.9	12.1	12.2	40.5	0.0	38.0	46.1	0.0	40.0	
Incr Delay (d2), s/veh	0.6	1.2	1.1	0.0	2.4	2.4	0.4	0.0	0.0	4.8	0.0	0.5	
Initial Q Delav(d3), s/veh	0.0 ו	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfO(95%).vel	h/ln1.2	10.3	10.7	0.1	16.0	16.3	5.6	0.0	0.6	13.0	0.0	4.3	
Unsig. Movement Delay	, s/veh	1											
LnGrp Delav(d).s/veh	11.0	10.1	10.0	7.9	14.5	14.6	40.9	0.0	38.0	50.9	0.0	40.5	
LnGrp LOS	В	В	В	А	В	В	D	А	D	D	A	D	
Approach Vol. veh/h		1181			1420			134			361		
Approach Delay s/veh		10.1			14.5			40.6			48.2		
Approach LOS		B			B			10.0 D			D		
		U			U			U			U		
Timer - Assigned Phs	1	2		4	5	6		8					
Phs Duration (G+Y+Rc)), s5.1	86.0		28.9	8.5	82.6		28.9					
Change Period (Y+Rc),	s 4.5	4.5		4.0	4.5	4.5		4.0					
Max Green Setting (Gm	nax\$, \$	67.9		34.0	18.5	54.5		34.0					
Max Q Clear Time (g_c	+112),13	18.7		23.5	3.9	29.7		9.2					
Green Ext Time (p_c), s	6 0.0	8.9		1.4	0.1	11.2		0.7					
Intersection Summary													
HCM 6th Ctrl Delay			17.9										
HCM 6th LOS			В										

2023 Total PM (Site Access Scenario 1) Kittelson & Associates, Inc.

Int Delay, s/veh 0.3 Movement EBL EBT WBT WBR SBL SBR **†;** 1270 Lane Configurations **↑**↑ ۴ Traffic Vol, veh/h 0 50 0 1213 17 Future Vol, veh/h 0 1213 1270 17 0 50 Conflicting Peds, #/hr 6 0 0 0 0 6 Sign Control Free Free Free Free Stop Stop RT Channelized -None None None --Storage Length -----0 Veh in Median Storage, # -0 0 0 --Grade, % 0 0 0 ---Peak Hour Factor 94 94 94 94 94 94 Heavy Vehicles, % 2 0 2 0 0 0 Mvmt Flow 0 1290 1351 18 0 53

Major/Minor	Major1	М	ajor2	Mir	nor2	
Conflicting Flow All	-	0	-	0	-	691
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.9
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.3
Pot Cap-1 Maneuver	0	-	-	-	0	392
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuve	r -	-	-	-	-	390
Mov Cap-2 Maneuve	r-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	SB	
HCM Control Delay, s	0	0	15.7	
HCM LOS			С	

Minor Lane/Major Mvmt	EBT	WBT	WBR SBLn1
Capacity (veh/h)	-	-	- 390
HCM Lane V/C Ratio	-	-	- 0.136
HCM Control Delay (s)	-	-	- 15.7
HCM Lane LOS	-	-	- C
HCM 95th %tile Q(veh)	-	-	- 0.5

2023 Total PM (Site Access Scenario 1) Kittelson & Associates, Inc.

ntersection							
nt Delay, s/veh	2.5						
Vovement	EBT	EBR	WBL	WBT	NBL	NBR	
ane Configurations			ľ	- 11	Y		
Traffic Vol, veh/h	1138	73	56	1259	27	62	
Future Vol, veh/h	1138	73	56	1259	27	62	
Conflicting Peds, #/hr	0	9	9	0	0	0	
Sign Control	Free	Free	Free	Free	Stop	Stop	
RT Channelized	-	None	-	None	-	None	
Storage Length	-	-	75	-	0	-	
Veh in Median Storage,	# 0	-	-	0	0	-	
Grade, %	0	-	-	0	0	-	

94

0

66

94

2

94

4

29

Major/Minor	Major1	Μ	lajor2	1	Vinor1			
Conflicting Flow All	0	0	1298	0	2049	654		
Stage 1	-	-	-	-	1259	-		
Stage 2	-	-	-	-	790	-		
Critical Hdwy	-	-	6.9	-	6.88	6.9		
Critical Hdwy Stg 1	-	-	-	-	5.88	-		
Critical Hdwy Stg 2	-	-	-	-	5.88	-		
Follow-up Hdwy	-	-	6.9	-	3.54	3.3		
Pot Cap-1 Maneuver	-	-	118	-	47	414		
Stage 1	-	-	-	-	227	-		
Stage 2	-	-	-	-	402	-		
Platoon blocked, %	-	-		-				
Mov Cap-1 Maneuve	- r	-	117	-	~ 23	410		
Mov Cap-2 Maneuve	r -	-	-	-	106	-		
Stage 1	-	-	-	-	225	-		
Stage 2	-	-	-	-	196	-		

Approach	EB	WB	NB
HCM Control Delay, s	0	2.7	33.4
HCM LOS			D

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT		
Capacity (veh/h)	219	-	-	117	-		
HCM Lane V/C Ratio	0.432	-	-	0.509	-		
HCM Control Delay (s)	33.4	-	-	64.1	-		
HCM Lane LOS	D	-	-	F	-		
HCM 95th %tile Q(veh)	2	-	-	2.3	-		
Notes							
~: Volume exceeds capacity	s: De	elay exc	eeds 3	00s	+: Comp	utation Not Define	d *: All major volume in platoon

2023 Total PM (Site Access Scenario 1) Kittelson & Associates, Inc.

Peak Hour Factor

Heavy Vehicles, % Mvmt Flow 94

2

1211

94

0

78

94

0

60 1339

Intersection						
Int Delay, s/veh	2.4					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	٦	- 11	_ ≜ î≽		- ¥	
Traffic Vol, veh/h	53	1149	1314	15	22	5
Future Vol, veh/h	53	1149	1314	15	22	5
Conflicting Peds, #/hr	4	0	0	4	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	75	-	-	-	0	-
Veh in Median Storage,	# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	94	94	94	94	94	94
Heavy Vehicles, %	0	2	2	0	0	0
Mvmt Flow	56	1222	1398	16	23	5

Major/Minor	Major1	Ν	/lajor2		Vinor2			
Conflicting Flow All	1418	0	-	0	2133	711		
Stage 1	-	-	-	-	1410	-		
Stage 2	-	-	-	-	723	-		
Critical Hdwy	6.9	-	-	-	6.8	6.9		
Critical Hdwy Stg 1	-	-	-	-	5.8	-		
Critical Hdwy Stg 2	-	-	-	-	5.8	-		
Follow-up Hdwy	6.9	-	-	-	3.5	3.3		
Pot Cap-1 Maneuver	100	-	-	-	43	380		
Stage 1	-	-	-	-	195	-		
Stage 2	-	-	-	-	447	-		
Platoon blocked, %		-	-	-				
Mov Cap-1 Maneuver	100	-	-	-	~ 19	379		
Mov Cap-2 Maneuver	-	-	-	-	70	-		
Stage 1	-	-	-	-	85	-		
Stage 2	-	-	-	-	445	-		
Approach	FB		WR		SB			
HCM Control Delay s	35		0		70.9			
HCM LOS	0.0		U		, 0.7 F			
Minor Lane/Major Mvr	nt	EBL	EBT	WBT	WBRS	SBLn1		
Capacity (veh/h)		100	-	-	-	82		
HCM Lane V/C Ratio		0.564	-	-	-	0.35		
HCM Control Delay (s	.)	79.8	-	-	-	70.9		
HCM Lane LOS		F	-	-	-	F		
HCM 95th %tile Q(ver	ר)	2.6	-	-	-	1.3		
Notes								
~: Volume exceeds ca	apacity	\$: De	elay exc	ceeds 3	00s	+: Com	outation Not Defined	*: All major volume in platoon

2023 Total PM (Site Access Scenario 1) Kittelson & Associates, Inc. Synchro 10 Report Page 5

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Intersection

Int Delay, s/veh

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	37	1	111	35	2	13	76	141	14	6	195	63
Future Vol, veh/h	37	1	111	35	2	13	76	141	14	6	195	63
Conflicting Peds, #/hr	1	0	1	1	0	1	6	0	3	3	0	6
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	1	-
Peak Hour Factor	87	87	87	87	87	87	87	87	87	87	87	87
Heavy Vehicles, %	0	0	0	0	0	0	1	1	0	0	2	0
Mvmt Flow	43	1	128	40	2	15	87	162	16	7	224	72

Major/Minor	Minor2		Ν	linor1		[Major1		Ν	/lajor2			
Conflicting Flow All	634	635	267	687	663	174	302	0	0	181	0	0	
Stage 1	280	280	-	347	347	-	-	-	-	-	-	-	
Stage 2	354	355	-	340	316	-	-	-	-	-	-	-	
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.11	-	-	4.1	-	-	
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-	
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-	
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.209	-	-	2.2	-	-	
Pot Cap-1 Maneuver	395	399	777	364	384	875	1265	-	-	1407	-	-	
Stage 1	731	683	-	673	638	-	-	-	-	-	-	-	
Stage 2	667	633	-	679	659	-	-	-	-	-	-	-	
Platoon blocked, %								-	-		-	-	
Mov Cap-1 Maneuver	r 360	363	773	283	350	872	1259	-	-	1404	-	-	
Mov Cap-2 Maneuver	r 360	363	-	283	350	-	-	-	-	-	-	-	
Stage 1	672	675	-	620	588	-	-	-	-	-	-	-	
Stage 2	602	583	-	562	652	-	-	-	-	-	-	-	

Approach	EB	WB	NB	SB	
HCM Control Delay, s	13.4	17.4	2.7	0.2	
HCM LOS	В	С			

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1\	WBLn1	SBL	SBT	SBR	
Capacity (veh/h)	1259	-	-	598	347	1404	-	-	
HCM Lane V/C Ratio	0.069	-	-	0.286	0.166	0.005	-	-	
HCM Control Delay (s)	8.1	0	-	13.4	17.4	7.6	0	-	
HCM Lane LOS	А	А	-	В	С	А	А	-	
HCM 95th %tile Q(veh)	0.2	-	-	1.2	0.6	0	-	-	

2023 Total PM (Site Access Scenario 2) Kittelson & Associates, Inc. Synchro 10 Report Page 1

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Int Delay, s/veh

Int Delay, s/veh	5.5							
Movement	EBT	EBR	WBL	WBT	NBL	NBR		
Lane Configurations	↑			↑	<u>۲</u>			
Traffic Vol, veh/h	7	0	0	11	30	0		
Future Vol, veh/h	7	0	0	11	30	0		
Conflicting Peds, #/hr	0	2	2	0	0	0		
Sign Control	Free	Free	Free	Free	Stop	Stop		
RT Channelized	-	None	-	None	-	None		
Storage Length	-	-	-	-	0	-		
Veh in Median Storage	,# 0	-	-	0	0	-		
Grade, %	0	-	-	0	0	-		
Peak Hour Factor	58	58	58	58	58	58		
Heavy Vehicles, %	0	0	0	0	0	0		
Mvmt Flow	12	0	0	19	52	0		

Major/Minor	Major1	Ма	jor2	Mino	.1		
Conflicting Flow All	0	-	-	- 3	- 11		
Stage 1	-	-	-	- 1	2 -		
Stage 2	-	-	-	- 1	9 -		
Critical Hdwy	-	-	-	- 6	.4 -		
Critical Hdwy Stg 1	-	-	-	- 5	.4 -		
Critical Hdwy Stg 2	-	-	-	- 5	.4 -		
Follow-up Hdwy	-	-	-	- 3	.5 -		
Pot Cap-1 Maneuver	-	0	0	- 98	8 0		
Stage 1	-	0	0	- 101	6 0		
Stage 2	-	0	0	- 100	9 0		
Platoon blocked, %	-			-			
Mov Cap-1 Maneuve	r -	-	-	- 98	- 88		
Mov Cap-2 Maneuve	r -	-	-	- 98	- 88		
Stage 1	-	-	-	- 101	6 -		
Stage 2	-	-	-	- 100	9 -		

Approach	EB	WB	NB
HCM Control Delay, s	0	0	8.8
HCM LOS			А

Minor Lane/Major Mvmt	NBLn1	EBT	WBT
Capacity (veh/h)	988	-	-
HCM Lane V/C Ratio	0.052	-	-
HCM Control Delay (s)	8.8	-	-
HCM Lane LOS	А	-	-
HCM 95th %tile Q(veh)	0.2	-	-

2023 Total PM (Site Access Scenario 2) Kittelson & Associates, Inc.

HCM 6th Signalized Intersection Summary 3: SW 107th Ave & SW Beaverton Hillsdale Hwy

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	۲.	4 12		ሻ	A			र्स	1		र्स	1
Traffic Volume (veh/h)	80	990	28	5	1184	124	74	38	12	229	37	87
Future Volume (veh/h)	80	990	28	5	1184	124	74	38	12	229	37	87
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.98	1.00		0.97	1.00		0.99	0.99		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1885	1870	1870	1900	1870	1870	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	86	1065	30	5	1273	133	80	41	13	246	40	94
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	1	2	2	0	2	2	0	0	0	0	0	0
Cap, veh/h	276	2350	66	342	2064	215	286	137	352	330	45	352
Arrive On Green	0.03	0.67	0.67	0.01	0.64	0.64	0.22	0.22	0.22	0.22	0.22	0.22
Sat Flow, veh/h	1795	3527	99	1810	3239	337	1073	623	1599	1243	202	1599
Grp Volume(v), veh/h	86	536	559	5	696	710	121	0	13	286	0	94
Grp Sat Flow(s),veh/h/ln	1795	1777	1849	1810	1777	1799	1696	0	1599	1446	0	1599
Q Serve(g_s), s	1.9	17.3	17.3	0.1	28.0	28.4	0.0	0.0	0.8	16.1	0.0	5.8
Cycle Q Clear(g_c), s	1.9	17.3	17.3	0.1	28.0	28.4	7.0	0.0	0.8	23.0	0.0	5.8
Prop In Lane	1.00		0.05	1.00		0.19	0.66		1.00	0.86		1.00
Lane Grp Cap(c), veh/h	276	1184	1232	342	1132	1146	424	0	352	374	0	352
V/C Ratio(X)	0.31	0.45	0.45	0.01	0.61	0.62	0.29	0.00	0.04	0.76	0.00	0.27
Avail Cap(c_a), veh/h	491	1184	1232	410	1132	1146	520	0	453	465	0	453
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	11.1	9.6	9.6	8.5	13.0	13.0	39.2	0.0	36.8	45.4	0.0	38.7
Incr Delay (d2), s/veh	0.6	1.3	1.2	0.0	2.5	2.5	0.4	0.0	0.0	5.9	0.0	0.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/In	1.3	10.8	11.1	0.1	16.5	16.9	5.5	0.0	0.6	13.8	0.0	4.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	11.7	10.8	10.8	8.5	15.5	15.6	39.5	0.0	36.8	51.2	0.0	39.1
LnGrp LOS	В	В	В	А	В	В	D	А	D	D	А	D
Approach Vol, veh/h		1181			1411			134			380	
Approach Delay, s/veh		10.9			15.5			39.3			48.2	
Approach LOS		В			В			D			D	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	5.1	84.4		30.4	8.6	81.0		30.4				
Change Period (Y+Rc), s	4.5	4.5		4.0	4.5	4.5		4.0				
Max Green Setting (Gmax), s	5.1	67.9		34.0	18.5	54.5		34.0				
Max Q Clear Time (g_c+l1), s	2.1	19.3		25.0	3.9	30.4		9.0				
Green Ext Time (p_c), s	0.0	8.9		1.4	0.1	10.9		0.7				
Intersection Summary												
HCM 6th Ctrl Delay			18.8									
HCM 6th LOS			В									

Int Delay, s/veh 0.3

int Delay, siven	0.5						
Movement	EBL	EBT	WBT	WBR	SBL	SBR	
Lane Configurations		- 11	_ ≜ î≽			1	
Traffic Vol, veh/h	0	1231	1265	16	0	47	
Future Vol, veh/h	0	1231	1265	16	0	47	
Conflicting Peds, #/hr	6	0	0	6	0	0	
Sign Control	Free	Free	Free	Free	Stop	Stop	
RT Channelized	-	None	-	None	-	None	
Storage Length	-	-	-	-	-	0	
Veh in Median Storage,	# -	0	0	-	0	-	
Grade, %	-	0	0	-	0	-	
Peak Hour Factor	94	94	94	94	94	94	
Heavy Vehicles, %	0	2	2	0	0	0	
Mvmt Flow	0	1310	1346	17	0	50	

Major/Minor	Major1	Ma	ajor2	Min	lor2			
Conflicting Flow All	-	0	-	0	-	688		
Stage 1	-	-	-	-	-	-		
Stage 2	-	-	-	-	-	-		
Critical Hdwy	-	-	-	-	-	6.9		
Critical Hdwy Stg 1	-	-	-	-	-	-		
Critical Hdwy Stg 2	-	-	-	-	-	-		
Follow-up Hdwy	-	-	-	-	-	3.3		
Pot Cap-1 Maneuver	0	-	-	-	0	393		
Stage 1	0	-	-	-	0	-		
Stage 2	0	-	-	-	0	-		
Platoon blocked, %		-	-	-				
Mov Cap-1 Maneuve	r -	-	-	-	-	391		
Mov Cap-2 Maneuve	r -	-	-	-	-	-		
Stage 1	-	-	-	-	-	-		
Stage 2	-	-	-	-	-	-		

Approach	EB	WB	SB
HCM Control Delay, s	0	0	15.6
HCM LOS			С

Minor Lane/Major Mvmt	EBT	WBT	WBR SBLn1
Capacity (veh/h)	-	-	- 391
HCM Lane V/C Ratio	-	-	- 0.128
HCM Control Delay (s)	-	-	- 15.6
HCM Lane LOS	-	-	- C
HCM 95th %tile Q(veh)	-	-	- 0.4

2023 Total PM (Site Access Scenario 2) Kittelson & Associates, Inc.

Intersection						
Int Delay, s/veh	2.6					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	- † 14		ľ	- 11	Y	
Traffic Vol, veh/h	1156	73	56	1253	27	62
Future Vol, veh/h	1156	73	56	1253	27	62
Conflicting Peds, #/hr	0	9	9	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	75	-	0	-
Veh in Median Storage	e,#0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	94	94	94	94	94	94
Heavy Vehicles, %	2	0	0	2	4	0
Mvmt Flow	1230	78	60	1333	29	66

Major/Minor	Major1	N	lajor2	ſ	Minor1		
Conflicting Flow All	0	0	1317	0	2065	663	
Stage 1	-	-	-	-	1278	-	
Stage 2	-	-	-	-	787	-	
Critical Hdwy	-	-	6.9	-	6.88	6.9	
Critical Hdwy Stg 1	-	-	-	-	5.88	-	
Critical Hdwy Stg 2	-	-	-	-	5.88	-	
Follow-up Hdwy	-	-	6.9	-	3.54	3.3	
Pot Cap-1 Maneuver	-	-	115	-	46	409	
Stage 1	-	-	-	-	222	-	
Stage 2	-	-	-	-	404	-	
Platoon blocked, %	-	-		-			
Mov Cap-1 Maneuver	· -	-	114	-	~ 22	405	
Mov Cap-2 Maneuver	· _	-	-	-	103	-	
Stage 1	-	-	-	-	220	-	
Stage 2	-	-	-	-	191	-	

Approach	EB	WB	NB
HCM Control Delay, s	0	2.9	34.5
HCM LOS			D

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT		
Capacity (veh/h)	214	-	-	114	-		
HCM Lane V/C Ratio	0.442	-	-	0.523	-		
HCM Control Delay (s)	34.5	-	-	66.9	-		
HCM Lane LOS	D	-	-	F	-		
HCM 95th %tile Q(veh)	2.1	-	-	2.4	-		
Notes							
~: Volume exceeds capacity	\$: De	lay exc	eeds 3	00s	+: Comp	outation Not Defined	*: All major volume in platoon

2023 Total PM (Site Access Scenario 2) Kittelson & Associates, Inc.

	٦	-	+	*	1	∢
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	۲	† †	∱1 ≽			
Traffic Volume (veh/h)	53	1167	1313	16	0	0
Future Volume (Veh/h)	53	1167	1313	16	0	0
Sign Control		Free	Free		Stop	
Grade		0%	0%		0%	
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94
Hourly flow rate (vph)	56	1241	1397	17	0	0
Pedestrians					4	
Lane Width (ft)					0.0	
Walking Speed (ft/s)					3.5	
Percent Blockage					0	
Right turn flare (veh)						
Median type		TWLTL	TWLTL			
Median storage veh)		2	2			
Upstream signal (ft)		476	540			
pX, platoon unblocked	0.88				0.90	0.88
vC, conflicting volume	1418				2142	711
vC1, stage 1 conf vol					1410	
vC2, stage 2 conf vol					732	
vCu, unblocked vol	1204				1446	401
tC. single (s)	*6.9				6.8	6.9
tC. 2 stage (s)	017				5.8	017
tF (s)	*6.9				3.5	3.3
p0 queue free %	52				100	100
cM capacity (veh/h)	117				187	532
Direction Lone #		ED 0				001
Volumo Total	ED I	ED 2	ED 3	021	102	
Volume Loft	00 54	020	020	931	483	
Volume Dight	00	0	0	0	17	
	U 117	U 1700	U 1700	U 1700	/ I 1700	
LSH Volume to Consolity	0.40	1700	1700		0.20	
Quoue Length OEth (ft)	U.48	0.30	0.30	0.55	0.28	
Cueue Lengin 95in (ii)	04 71 1	0	0	0	0	
Control Delay (S)	01.1	0.0	0.0	0.0	0.0	
Lane LUS	F			0.0		
Approach Delay (s)	2.6			0.0		
Approach LOS						
Intersection Summary						
Average Delay			1.3			
Intersection Capacity Utilizatio	n		46.8%	IC	U Level o	of Service
Analysis Period (min)			15			
, , , , , , , , , , , , , , , , , , ,						
* User Entered Value						

5.1

Intersection

Int Delay, s/veh

Movement EBL EBT EBR WBL	WBT WBR	NBL NBT	NBR SBL	SBT	SBR
Lane Configurations 🚯	\$	4	•	\$	
Traffic Vol, veh/h 37 1 111 35	2 13	76 141	14 6	195	63
Future Vol, veh/h 37 1 111 35	2 13	6 76 141	14 6	195	63
Conflicting Peds, #/hr 1 0 1 1	0 1	6 0	3 3	0	6
Sign Control Stop Stop Stop Stop	Stop Stop	Free Free	Free Free	Free	Free
RT Channelized None -	- None	;	None -	-	None
Storage Length				-	-
Veh in Median Storage, # - 0	0 -	· - C		0	-
Grade, % - 0	0 -	· - C		1	-
Peak Hour Factor 87 87 87 87	87 87	87 87	87 87	87	87
Heavy Vehicles, % 0 0 0 0	0 0) 1 1	0 0	2	0
Mvmt Flow 43 1 128 40	2 15	87 162	16 7	224	72

Major/Minor	Minor2		Ν	linor1		[Major1		Ν	/lajor2			
Conflicting Flow All	634	635	267	687	663	174	302	0	0	181	0	0	
Stage 1	280	280	-	347	347	-	-	-	-	-	-	-	
Stage 2	354	355	-	340	316	-	-	-	-	-	-	-	
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.11	-	-	4.1	-	-	
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-	
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-	
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.209	-	-	2.2	-	-	
Pot Cap-1 Maneuver	395	399	777	364	384	875	1265	-	-	1407	-	-	
Stage 1	731	683	-	673	638	-	-	-	-	-	-	-	
Stage 2	667	633	-	679	659	-	-	-	-	-	-	-	
Platoon blocked, %								-	-		-	-	
Mov Cap-1 Maneuver	r 360	363	773	283	350	872	1259	-	-	1404	-	-	
Mov Cap-2 Maneuver	r 360	363	-	283	350	-	-	-	-	-	-	-	
Stage 1	672	675	-	620	588	-	-	-	-	-	-	-	
Stage 2	602	583	-	562	652	-	-	-	-	-	-	-	

Approach	EB	WB	NB	SB	
HCM Control Delay, s	13.4	17.4	2.7	0.2	
HCM LOS	В	С			

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1\	WBLn1	SBL	SBT	SBR	
Capacity (veh/h)	1259	-	-	598	347	1404	-	-	
HCM Lane V/C Ratio	0.069	-	-	0.286	0.166	0.005	-	-	
HCM Control Delay (s)	8.1	0	-	13.4	17.4	7.6	0	-	
HCM Lane LOS	А	А	-	В	С	А	А	-	
HCM 95th %tile Q(veh)	0.2	-	-	1.2	0.6	0	-	-	

2023 Total PM (Site Access Scenario 3) Kittelson & Associates, Inc.

Int Delay, s/veh	5.5						
Movement	EBT	EBR	WBL	WBT	NBL	NBR	
Lane Configurations	1			1	۳.		
Traffic Vol, veh/h	7	0	0	11	30	0	
Future Vol, veh/h	7	0	0	11	30	0	
Conflicting Peds, #/hr	0	2	2	0	0	0	
Sign Control	Free	Free	Free	Free	Stop	Stop	
RT Channelized	-	None	-	None	-	None	
Storage Length	-	-	-	-	0	-	
Veh in Median Storage,	# 0	-	-	0	0	-	
Grade, %	0	-	-	0	0	-	
Peak Hour Factor	58	58	58	58	58	58	
Heavy Vehicles, %	0	0	0	0	0	0	
Mvmt Flow	12	0	0	19	52	0	

Major/Minor	Major1	Ма	jor2	Mino	.1		
Conflicting Flow All	0	-	-	- 3	- 11		
Stage 1	-	-	-	- 1	2 -		
Stage 2	-	-	-	- 1	9 -		
Critical Hdwy	-	-	-	- 6	.4 -		
Critical Hdwy Stg 1	-	-	-	- 5	.4 -		
Critical Hdwy Stg 2	-	-	-	- 5	.4 -		
Follow-up Hdwy	-	-	-	- 3	.5 -		
Pot Cap-1 Maneuver	-	0	0	- 98	8 0		
Stage 1	-	0	0	- 101	6 0		
Stage 2	-	0	0	- 100	9 0		
Platoon blocked, %	-			-			
Mov Cap-1 Maneuve	r -	-	-	- 98	- 88		
Mov Cap-2 Maneuve	r -	-	-	- 98	- 88		
Stage 1	-	-	-	- 101	6 -		
Stage 2	-	-	-	- 100	9 -		

Approach	EB	WB	NB
HCM Control Delay, s	0	0	8.8
HCM LOS			А

Minor Lane/Major Mvmt	NBLn1	EBT	WBT
Capacity (veh/h)	988	-	-
HCM Lane V/C Ratio	0.052	-	-
HCM Control Delay (s)	8.8	-	-
HCM Lane LOS	А	-	-
HCM 95th %tile Q(veh)	0.2	-	-

2023 Total PM (Site Access Scenario 3) Kittelson & Associates, Inc.

HCM 6th Signalized Intersection Summary 3: SW 107th Ave & SW Beaverton Hillsdale Hwy

	≯	-	\mathbf{F}	4	+	•	1	Ť	1	1	Ļ	~
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	۴.	† 12		ሻ	A			र्स	1		र्स	1
Traffic Volume (veh/h)	80	990	28	5	1184	124	74	38	12	229	37	87
Future Volume (veh/h)	80	990	28	5	1184	124	74	38	12	229	37	87
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.98	1.00		0.97	1.00		0.99	0.99		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1885	1870	1870	1900	1870	1870	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	86	1065	30	5	1273	133	80	41	13	246	40	94
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	1	2	2	0	2	2	0	0	0	0	0	0
Cap, veh/h	276	2350	66	342	2064	215	286	137	352	330	45	352
Arrive On Green	0.03	0.67	0.67	0.01	0.64	0.64	0.22	0.22	0.22	0.22	0.22	0.22
Sat Flow, veh/h	1795	3527	99	1810	3239	337	1073	623	1599	1243	202	1599
Grp Volume(v), veh/h	86	536	559	5	696	710	121	0	13	286	0	94
Grp Sat Flow(s),veh/h/ln	1795	1777	1849	1810	1777	1799	1696	0	1599	1446	0	1599
Q Serve(g_s), s	1.9	17.3	17.3	0.1	28.0	28.4	0.0	0.0	0.8	16.1	0.0	5.8
Cycle Q Clear(g_c), s	1.9	17.3	17.3	0.1	28.0	28.4	7.0	0.0	0.8	23.0	0.0	5.8
Prop In Lane	1.00		0.05	1.00		0.19	0.66		1.00	0.86		1.00
Lane Grp Cap(c), veh/h	276	1184	1232	342	1132	1146	424	0	352	374	0	352
V/C Ratio(X)	0.31	0.45	0.45	0.01	0.61	0.62	0.29	0.00	0.04	0.76	0.00	0.27
Avail Cap(c_a), veh/h	491	1184	1232	410	1132	1146	520	0	453	465	0	453
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	11.1	9.6	9.6	8.5	13.0	13.0	39.2	0.0	36.8	45.4	0.0	38.7
Incr Delay (d2), s/veh	0.6	1.3	1.2	0.0	2.5	2.5	0.4	0.0	0.0	5.9	0.0	0.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/In	1.3	10.8	11.1	0.1	16.5	16.9	5.5	0.0	0.6	13.8	0.0	4.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	11.7	10.8	10.8	8.5	15.5	15.6	39.5	0.0	36.8	51.2	0.0	39.1
LnGrp LOS	В	В	В	А	В	В	D	А	D	D	А	D
Approach Vol, veh/h		1181			1411			134			380	
Approach Delay, s/veh		10.9			15.5			39.3			48.2	
Approach LOS		В			В			D			D	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	5.1	84.4		30.4	8.6	81.0		30.4				
Change Period (Y+Rc), s	4.5	4.5		4.0	4.5	4.5		4.0				
Max Green Setting (Gmax), s	5.1	67.9		34.0	18.5	54.5		34.0				
Max Q Clear Time (g_c+l1), s	2.1	19.3		25.0	3.9	30.4		9.0				
Green Ext Time (p_c), s	0.0	8.9		1.4	0.1	10.9		0.7				
Intersection Summary												
HCM 6th Ctrl Delay			18.8									
HCM 6th LOS			В									

Int Delay, s/veh 0.3 Movement EBL EBT WBT WBR SBL SBR Lane Configurations **↑**↑ ۴Þ ۴ Traffic Vol, veh/h 1231 0 43 0 1269 17 Future Vol, veh/h 0 1231 1269 17 0 43 Conflicting Peds, #/hr 6 0 0 0 0 6 Sign Control Free Free Free Free Stop Stop RT Channelized -None None None --Storage Length -----0 Veh in Median Storage, # -0 0 0 --Grade, % 0 0 0 ---Peak Hour Factor 94 94 94 94 94 94 Heavy Vehicles, % 2 0 2 0 0 0 Mvmt Flow 0 1310 1350 18 0 46

Major/Minor	Major1	Ма	ajor2	Mir	nor2	
Conflicting Flow All	-	0	-	0	-	690
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.9
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.3
Pot Cap-1 Maneuver	0	-	-	-	0	392
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuve	r -	-	-	-	-	390
Mov Cap-2 Maneuve	r-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	SB
HCM Control Delay, s	0	0	15.5
HCM LOS			С

Minor Lane/Major Mvmt	EBT	WBT	WBR SBLn1
Capacity (veh/h)	-	-	- 390
HCM Lane V/C Ratio	-	-	- 0.117
HCM Control Delay (s)	-	-	- 15.5
HCM Lane LOS	-	-	- C
HCM 95th %tile Q(veh)	-	-	- 0.4

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Intersection						
Int Delay, s/veh	2.6					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	_ ≜ 1≱		- ሽ	- 11	۰¥	
Traffic Vol, veh/h	1156	73	56	1258	27	62
Future Vol, veh/h	1156	73	56	1258	27	62
Conflicting Peds, #/hr	0	9	9	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	75	-	0	-
Veh in Median Storage	,# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	94	94	94	94	94	94
Heavy Vehicles, %	2	0	0	2	4	0
Mvmt Flow	1230	78	60	1338	29	66

Major/Minor	Major1	M	ajor2	l	Minor1		
Conflicting Flow All	0	0	1317	0	2067	663	
Stage 1	-	-	-	-	1278	-	
Stage 2	-	-	-	-	789	-	
Critical Hdwy	-	-	6.9	-	6.88	6.9	
Critical Hdwy Stg 1	-	-	-	-	5.88	-	
Critical Hdwy Stg 2	-	-	-	-	5.88	-	
Follow-up Hdwy	-	-	6.9	-	3.54	3.3	
Pot Cap-1 Maneuver	-	-	115	-	46	409	
Stage 1	-	-	-	-	222	-	
Stage 2	-	-	-	-	403	-	
Platoon blocked, %	-	-		-			
Mov Cap-1 Maneuver	· -	-	114	-	~ 22	405	
Mov Cap-2 Maneuver	· _	-	-	-	103	-	
Stage 1	-	-	-	-	220	-	
Stage 2	-	-	-	-	191	-	

Approach	EB	WB	NB
HCM Control Delay, s	0	2.9	34.5
HCM LOS			D

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT		
Capacity (veh/h)	214	-	-	114	-		
HCM Lane V/C Ratio	0.442	-	-	0.523	-		
HCM Control Delay (s)	34.5	-	-	66.9	-		
HCM Lane LOS	D	-	-	F	-		
HCM 95th %tile Q(veh)	2.1	-	-	2.4	-		
Notes							
· Volumo ovcoodo conocit			oode 2	000	Comp	utation Not Dofin	od *: All major volume in plateen

-: Volume exceeds capacity \$: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon

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Int Delay s/veh

Int Delay, s/veh	1.7							
Movement	EBL	EBT	WBT	WBR	SBL	SBR		
Lane Configurations	<u>۲</u>	- 11	_ ≜ î≽			1		
Traffic Vol, veh/h	53	1167	1314	15	0	4		
Future Vol, veh/h	53	1167	1314	15	0	4		
Conflicting Peds, #/hr	4	0	0	4	0	0		
Sign Control	Free	Free	Free	Free	Stop	Stop		
RT Channelized	-	None	-	None	-	None		
Storage Length	75	-	-	-	-	0		
Veh in Median Storage	e,# -	0	0	-	0	-		
Grade, %	-	0	0	-	0	-		
Peak Hour Factor	94	94	94	94	94	94		
Heavy Vehicles, %	0	2	2	0	0	0		
Mvmt Flow	56	1241	1398	16	0	4		

Major/Minor	Major1	Maj	jor2	Min	or2	
Conflicting Flow All	1418	0	-	0	-	711
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	6.9	-	-	-	-	6.9
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	6.9	-	-	-	-	3.3
Pot Cap-1 Maneuver	100	-	-	-	0	380
Stage 1	-	-	-	-	0	-
Stage 2	-	-	-	-	0	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuve	r 100	-	-	-	-	379
Mov Cap-2 Maneuve	r -	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	SB	
HCM Control Delay, s	3.5	0	14.6	
HCM LOS			В	

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR SBLn1
Capacity (veh/h)	100	-	-	- 379
HCM Lane V/C Ratio	0.564	-	-	- 0.011
HCM Control Delay (s)	79.8	-	-	- 14.6
HCM Lane LOS	F	-	-	- B
HCM 95th %tile Q(veh)	2.6	-	-	- 0

2023 Total PM (Site Access Scenario 3) Kittelson & Associates, Inc.

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Appendix D Crash Data

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CDS390 12/15/2020					OR	OREGON DEPARTMENT OF TRANSPORTATION - POLICY, DATA AND ANALYSIS DIVISION TRANSPORTATION DATA SECTION - CRASH ANALYSIS AND REPORTING UNIT STATE HIGHWAY SYSTEM CRASH LOCATIONS - DRIVER BEHAVIOR FORMAT								PAGE:	1	
					C	Crashes of	SW Beaverton Hillsdal January 1, 2014 th	e Hwy (#040), fro rough December 31	m MP 1 , 2018	.39 to MP 3	1.41					
		T	D		C O M P	M L G T							T O T S U V VEI	P HICLE	EOPLE K I I I	S P A E
SERIAL NO I	DATE	M E	A Y	*COUNTY OR CITY NAME	N T	Y P CRASH	LOCATION		COLL TYPE	EVENT	CAUSE	ERROR	R E TYI F H #1	P/OWN #2	L N I	с С D
06294 11/ 03698 06/	19/2018 21/2017	5P 2P	MO WE	Beaverton Beaverton	MN MN	R HY 040, R HY 040,	BEAVERTON-HILLSDALE AT BEAVERTON-HILLSDALE AT	MP 1.39 MP 1.39	REAR TURN		29 02	028	DRY 2 010 DRY 2 011	010	0 0 1	N N N N

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OREGON DEPARTMENT OF TRANSPORTATION - POLICY, DATA AND ANALYSIS DIVISION TRANSPORTATION DATA SECTION - CRASH ANALYSIS AND REPORTING UNIT CONTINUOUS SYSTEM CRASH LISTING

Crashes on SW Beaverton Hillsdale Hwy (#040), from MP 1.39 to MP 1.41 January 1, 2014 through December 31, 2018

S U P G S W SER# E A / C O DATE COUNTY INVEST E L M H R DAY/TIME CITY UNLOC? D C J L K LAT/LONG URBAN AREA	RD# FC CONN # CMPT/MLG FIRST STREET F MILEPNT SECOND STREET F LRS INTERSECTION SEQ# F	INT-TYP RD CHAR (MEDIAN) INT-REI DIRECT LEGS TRAF- LOCTN (#LANES) CNTL	. OFFRD WTHR CRASH TY RNDBT SURF COLL TYP DRVWY LIGHT SVRTY	SPCL USE P TRLR QTY MOVE OWNER FROM V# VEH TYPE TO	A S PRTC INJ G E LICNS PED P# TYPE SVRTY E X RES LOC	, ERROR ACTN EVE	INT CAUSE
03698 N N N N 06/21/2017 WASHINGTON CITY N Wed 2P BEAVERTON	1 14 MN 0 SW BEAV-HILLSDALE HY B	ALLEY N E (NONE) NONE	N CLR ANGL-OTH N DRY TURN	01 NONE O TURN-L PRVTE N E		018	02 00
PORTLAND UA No 45 29 11.55 -122 47 6.06	1.39 SW 107TH AVE (004000100S00 1	05 (04)	N DAY INJ	PSNGR CAR	01 DRVR NONE 21 M OR-Y OR<25	028 000	02
				02 NONE O STRGHT PRVTE E W		000	00
				PSNGR CAR	01 DRVR INJC 59 M OR-Y OR<25	000 000	00
06294 N N N 11/19/2018 WASHINGTON NONE N Mon 5P BEAVERTON	1 14 S MN 0 SW BEAV-HILLSDALE HY B	STRGHT N E (NONE) UNKNOWN	N CLR S-STRGHT N DRY REAR	01 NONE 9 STRGHT N/A E W		000	29 00
PORTLAND UA No 45 29 11.53 -122 47 6.05	1.39 SW 107TH AVE (004000100S00 1	06 (04)	N DLIT PDO	PSNGR CAR	01 DRVR NONE 00 U UNK UNK	000 000	00
				02 NONE 9 STRGHT N/A E W		006	00
				PSNGR CAR	01 DRVR NONE 00 U UNK UNK	000 000	00

OREGON DEPARTMENT OF TRANSPORTATION - POLICY, DATA AND ANALYSIS DIVISION TRANSPORTATION DATA SECTION - CRASH ANALYSIS AND REPORTING UNIT STATE HIGHWAY SYSTEM CRASH LOCATIONS - DRIVER BEHAVIOR FORMAT

Crashes on SW Beaverton Hillsdale Hwy (#040), from MP 1.31 to MP 1.38 January 1, 2014 through December 31, 2018

						М							Т				
					С	L							0		PF	SOPI	.Е
					0	G							Т				S
		Т			М								S			K	P
		I	D		P	Т							U V	VEHIC	LE	ΙI	ΑE
SERIAL		М	Α	*COUNTY OR	N	Y			COLL				RΕ	TYP/O	ŴN	L N	LΕ
NO	DATE	Ε	Y	CITY NAME	Т	P CRASH	LOCATION		TYPE	EVENT	CAUSE	ERROR	FΗ	#1	#2	L J	СD
04504 08	8/07/2014	9A	ΤH	Beaverton	MN	R HY 040	BEAVERTON-HILLSDALE	AT MP 1.33	3 SS-0		13	045	DRY 2	011 0	11	0 1	N N
05093 09	9/03/2014	12P	WE	Beaverton	MN	R HY 040	BEAVERTON-HILLSDALE	AT MP 1.33	3 SS-O		13	045	DRY 2	011 0	11	0 0	N N
04121 06	6/23/2016	8A	TH	Beaverton	MN	R HY 040	BEAVERTON-HILLSDALE	AT MP 1.33	3 SS-O		13		WET 2	010 0	10	0 0	N N
06693 10	0/24/2017	ЗP	ΤU	Beaverton	MN	R HY 040	BEAVERTON-HILLSDALE	AT MP 1.35	5 REAR		07	043	DRY 2	011 0	11	0 1	N N
06979 11	1/04/2017	2 P	SA	Beaverton	MN	R HY 040	BEAVERTON-HILLSDALE	AT MP 1.35	5 REAR		29		DRY 2	010 0	10	0 0	N N
00469 01	1/24/2017	1P	TU	Beaverton	MN	R HY 040	BEAVERTON-HILLSDALE	AT MP 1.35	5 TURN		02	028	DRY 2	011 0	11	0 1	N N
00381 01	1/23/2014	2P	TH	Beaverton	MN	R HY 040	BEAVERTON-HILLSDALE	AT MP 1.30	5 TURN		29	026	DRY 2	011 0	11	0 0	N N
03459 06	6/16/2015	ЗP	TU	Beaverton	MN	R HY 040	BEAVERTON-HILLSDALE	AT MP 1.30	5 TURN		08	007	DRY 2	011 0	11	0 0	N N
05479 08	8/16/2016	10A	TU	Beaverton	MN	R HY 040	BEAVERTON-HILLSDALE	AT MP 1.30	5 TURN		02	028	DRY 2	019 0	11	0 1	N N
00104 01	1/05/2017	11A	TH	Beaverton	MN	R HY 040	BEAVERTON-HILLSDALE	AT MP 1.30	5 TURN		02	028	DRY 2	011 0	11	0 1	N N
01172 03	3/01/2017	11A	WE	Beaverton	MN	R HY 040	BEAVERTON-HILLSDALE	AT MP 1.30	5 TURN		02	028	DRY 2	011 0	11	0 1	N N
00720 02	2/11/2018	8P	SU	Beaverton	MN	R HY 040	BEAVERTON-HILLSDALE	AT MP 1.30	5 TURN		02		DRY 2	010 0	10	0 0	N N
07439 11	1/22/2017	ЗP	WE	Beaverton	MN	R HY 040	BEAVERTON-HILLSDALE	AT MP 1.3	7 REAR		27,07		WET 2	010 0	10	0 0	N N
01545 03	3/28/2018	6P	WE	Beaverton	MN	R HY 040	BEAVERTON-HILLSDALE	AT MP 1.3	7 TURN	053	02	028	DRY 2	011 0	11	0 1	N N
07519 11	1/18/2017	11A	SA	Beaverton	MN	R HY 040	BEAVERTON-HILLSDALE	AT MP 1.38	3 REAR		29		DRY 2	010 0	10	0 0	N N

040 BEAVERTON-HILLSDALE D R	с	ashes on SW Beaverton January 1	n Hillsdale Hwy (#040), 1, 2014 through Decembe	from MP 1.31 to MP 1 r 31, 2018	.38		
S U P G S W SER# E A / C O DATE COUNTY INVEST E L M H R DAY/TIME CITY UNLOC? D C J L K LAT/LONG URBAN AREA	RD# FC CONN # CMPT/MLG FIRST STREET RE MILEPNT SECOND STREET DI LRS INTERSECTION SEQ# LC	INT-TYP CHAR (MEDIAN) INT-RE RECT LEGS TRAF- CTN (#LANES) CNTL	EL OFFRD WTHR CRASH TY RNDBT SURF COLL TYI DRVWY LIGHT SVRTY	SPCL USE YP TRLR QTY MOVE P OWNER FROM V# VEH TYPE TO	A S PRTC INJ G E LICNS PE P# TYPE SVRTY E X RES LC	ID DC ERROR ACTN EVENT	CAUSE
04504 N N N 08/07/2014 WASHINGTON NO RPT N Thu 9A BEAVERTON	1 14 ST MN 0 SW BEAV-HILLSDALE HY E	RGHT Y (NONE) UNKNOW	N CLR S-STRGHT N N DRY SS-O	01 NONE 0 STRGHI PRVTE E W	ſ	000	13 00
PORTLAND UA No 45 29 11.54 -122 47 10.56	1.33 SW 107TH AVE 05 004000100S00 1	(04)	N DAY INJ	PSNGR CAR	01 DRVR NONE 18 M OR-Y OR<25	045 000	13
				02 NONE O STRGHI PRVTE E W	ſ	000	00
				PSNGR CAR	01 DRVR INJC 61 F OR-Y OR<25	000 000	00
04121 N N N 06/23/2016 WASHINGTON CITY N Thu 8A BEAVERTON	1 14 ST MN 0 SW BEAV-HILLSDALE HY E	RGHT N (NONE) NONE	N RAIN S-STRGHT N WET SS-O	01 NONE 9 STRGHT N/A E W	ſ	000	13 00
PORTLAND UA No 45 29 11.54 -122 47 10.56	1.33 SW 107TH AVE 05 004000100S00 1	(04)	N DAY PDO	PSNGR CAR	01 DRVR NONE 00 U UNK UNK	000 000	00
				02 NONE 9 STRGHI N/A E W	ſ	000	00
				PSNGR CAR	01 DRVR NONE 00 U UNK UNK	000 000	00
05093 N N N 09/03/2014 WASHINGTON NO RPT N Wed 12P BEAVERTON	1 14 ST MN O SW BEAV-HILLSDALE HY E	RGHT N (NONE) UNKNOW	N CLR S-STRGHT N N DRY SS-O	01 NONE O STRGHI PRVTE E W	ŗ	000	13 00
PORTLAND UA No 45 29 11.54 -122 47 10.56	1.33 SW 107TH AVE 06 004000100S00 1	(04)	N DAY PDO	PSNGR CAR	01 DRVR NONE 37 M OR-Y OR<25	045 000	13
					02 PSNG NO<5 04 F 03 PSNG NO<5 02 M	000 000 000 000	00000
				02 NONE 0 STRGHI PRVTE E W	r L	000	00
				PSNGR CAR	01 DRVR NONE 44 M OR-Y OR<25	000 000	00
06693 N N N N N 10/24/2017 WASHINGTON CITY N Tue 3P BEAVERTON	1 14 ST MN 0 SW BEAV-HILLSDALE HY E	RGHT N (NONE) NONE	N CLR S-STRGHT N DRY REAR	01 NONE O STRGHI PRVTE W E	C	000	07 00
PORTLAND UA No 45 29 11.54 -122 47 9.06	1.35 SW 107TH AVE 03 004000100S00 1	(04)	N DAY INJ	PSNGR CAR	01 DRVR NONE 75 F OR-Y OR<25	043 000	07
				02 NONE O STRGHI PRVTE W E	C	000	00
				PSNGR CAR	01 DRVR NONE 55 F OR-Y OR<25	000 000	00
00469 N N N 01/24/2017 WASHINGTON	1 14 AI	Ley n	N CLR ANGL-OTH	01 NONE 0 TURN-I	02 PSNG INJC 88 M	000 000	00 02
NONE N TUE 1P BEAVERTON PORTLAND UA	MN 0 SW BEAV-HILLSDALE HY E 1.35 SW 107TH AVE 05	(NONE) UNKNOW	N N DRY TURN N DAY INJ	PRVTE N E PSNGR CAR	01 DRVR NONE 35 F OR-Y	018 028 000	00
NO 45 29 11.54 -122 47 9.06	004000100800 1	(U4)			OR>25	EXNIDIT	J

OREGON DEPARTMENT OF TRANSPORTATION - POLICY, DATA AND ANALYSIS DIVISION

TRANSPORTATION DATA SECTION - CRASH ANALYSIS AND REPORTING UNIT CONTINUOUS SYSTEM CRASH LISTING

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OREGON DEPARTMENT OF TRANSPORTATION - POLICY, DATA AND ANALYSIS DIVISION TRANSPORTATION DATA SECTION - CRASH ANALYSIS AND REPORTING UNIT CONTINUOUS SYSTEM CRASH LISTING

Crashes on SW Beaverton Hillsdale Hwy (#040), from MP 1.31 to MP 1.38 January 1, 2014 through December 31, 2018

R S U P G SER# E A / INVEST E L M UNLOC? D C J	S W C O DATE H R DAY/TIME L K <i>LAT/LONG</i>	COUNTY CITY URBAN AREA	RD# FC CMPT/MLG MILEPNT LRS	CONN # FIRST STREET SECOND STREET INTERSECTION SEQ#	RD CHAR DIRECT LOCTN	INT-TYP (MEDIAN) LEGS (#LANES)	INT-REL TRAF- CNTL	. OFFRD WTH RNDBT SURI DRVWY LIGH	R CRASH TYN F COLL TYP HT SVRTY	SPCL USE TRLR QTY OWNER V# VEH TYPE	MOVE FROM TO	PRTC INJ P# TYPE SVRTY	A S G E LICNS Z E X RES	PED LOC ERROR	ACTN EVENT	CAUSE
										02 NONE () STRGHT				000	0.0
										PSNGR CAR	E W	01 DRVR INJC	47 F OR-Y	000	000	00
													OR<25			
CITY N	N N 11/04/2017 Sat 2P	BEAVERTON	I I4 MN O	SW BEAV-HILLSDALE H	STRGHT IY E	(NONE)	n NONE	N CLD N DRY	S-ISTOP REAR	01 NONE 9 N/A	E W				000	29
No 45 29	11.54 -122	PORTLAND UA 47 9.06	1.35 00400010	SW 107TH AVE 0S00 1	06	(04)		N DAY	PDO	PSNGR CAR		01 DRVR NONE	00 U UNK UNK	000	000	00
										02 NONE 9 N/A) STOP E W				011	00
										PSNGR CAR		01 DRVR NONE	00 U UNK UNK	000	000	00
05479 NNN NONE N	08/16/2016 Tue 10A	WASHINGTON BEAVERTON	1 14 MN 0	SW BEAV-HILLSDALE H	ALLEY IY E	(NONE)	n Unknown	N CLR N DRY	ANGL-OTH TURN	01 NONE (UNKN) STRGHT W E				000	02 00
No 45 29	11.54 -122	PORTLAND UA 47 8.31	1.36 00400010	SW 107TH AVE 0S00 1	03	(04)		N DAY	INJ	PSNGR CAR	-	01 DRVR NONE	42 M OR-Y OR<25	000	000	00
										02 NONE (PRVTE) TURN-R S E				018	00
										PSNGR CAR		01 DRVR INJC	26 F OR-Y OR<25	028	000	02
03459 NNN NONE N	06/16/2015 Tue 3P	WASHINGTON BEAVERTON	1 14 MN 0	SW BEAV-HILLSDALE H	ALLEY IY E	(NONE)	N UNKNOWN	N CLR N DRY	ANGL-OTH TURN	01 NONE (PRVTE) TURN-R S E				018	08 00
No 45 29	11.54 -122	PORTLAND UA 47 8.31	1.36 00400010	SW 107TH AVE 0S00 1	04	(04)		N DAY	PDO	PSNGR CAR		01 DRVR NONE	39 M OR-Y OR<25	007	000	08
										02 NONE (PRVTE) STRGHT W E				000	00
										PSNGR CAR		01 DRVR NONE	58 F OR-Y OR<25	000	000	00
00104 NNN CITY N	01/05/2017 Thu 11A	WASHINGTON BEAVERTON	1 14 MN 0	SW BEAV-HILLSDALE H	ALLEY IY E	(NONE)	N NONE	N CLR N DRY	ANGL-OTH TURN	01 NONE (PRVTE) TURN-L S W				019	02 00
No 45 29	11.54 -122	PORTLAND UA 47 8.31	1.36 00400010	SW 107TH AVE 0S00 1	04	(04)		N DAY	INJ	PSNGR CAR		01 DRVR NONE	63 F OR-Y OR<25	028	000	02
										02 NONE () STRGHT				0.0.0	0.0
										PRVTE PSNGR CAR	WŁ	01 DRVR INJC	27 F OR-Y	000	000	00
										I SHOR CAR		01 DI(01(100C	OR<25	000	000	00

	TR	ANSPORTATION DATA S CONTINU	ECTION - CRASH ANALYS UOUS SYSTEM CRASH LIS	IS AND REPORTING UNIT	ſ		
040 BEAVERTON-HILLSDALE	Crashes	on SW Beaverton Hi	illsdale Hwy (#040), 2014 through December	from MP 1.31 to MP 1. 31. 2018	38		
R SU PGSW SER#EA/CODATE COUNTY INVESTELMHRDAY/TIME CITY UNLOC?DCJLKLAT/LONG URBANAREA	RD# FC CONN # CMPT/MLG FIRST STREET RD CHAR MILEPNT SECOND STREET DIRECT LRS INTERSECTION SEQ# LOCTN	INT-TYP (MEDIAN) INT-REL LEGS TRAF- (#LANES) CNTL	OFFRD WTHR CRASH TYP RNDBT SURF COLL TYP DRVWY LIGHT SVRTY	SPCL USE TRLR QTY MOVE OWNER FROM V# VEH TYPE TO	A S PRTC INJ G E LICNS PED P# TYPE SVRTY E X RES LOC ERROR	ACTN EVENT CAU	USE
01172 NNNN 03/01/2017 WASHINGTON CITY N Wed 11A BEAVERTON	1 14 ALLEY MN 0 SW BEAV-HILLSDALE HY E	N (NONE) UNKNOWN	N CLR ANGL-OTH N DRY TURN	01 NONE O STRGHT PRVTE W E		02 000 00	
PORTLAND UA No 45 29 11.54 -122 47 8.31	1.36 SW 107TH AVE 04 004000100S00 1	(04)	N DAY INJ	PSNGR CAR	01 DRVR INJC 50 F OR-Y 000 OR<25	000 00	
				02 NONE O TURN-L PRVTE S W		000 00	
				PSNGR CAR	01 DRVR NONE 33 M OR-Y 028 OR<25	000 02	
00381 N N N 01/23/2014 WASHINGTON NONE N Thu 2P BEAVERTON	1 14 Alley MN 0 SW BEAV-HILLSDALE HY E	Y (NONE) L-TURN RE	N CLR ANGL-OTH EF N DRY TURN	01 NONE O TURN-L PRVTE S W		018 29	
PORTLAND UA No 45 29 11.54 -122 47 8.31	1.36 SW 107TH AVE 05 004000100S00 1	(05)	N DAY PDO	PSNGR CAR	01 DRVR NONE 40 M OR-Y 026 OR<25	000 29	
				02 NONE O STOP PRVTE E W		011 00	
				PSNGR CAR	01 DRVR NONE 36 F OR-Y 000 OR<25	000 00	
00720 N N N 02/11/2018 WASHINGTON NONE N Sun 8P BEAVERTON	1 14 Alley MN 0 SW BEAV-HILLSDALE HY E	N (NONE) UNKNOWN	N CLR ANGL-OTH N DRY TURN	01 NONE 9 TURN-L N/A S W		02 018 00	
PORTLAND UA No 45 29 11.53 -122 47 8.31	1.36 SW 107TH AVE 05 004000100S00 1	(04)	N DLIT PDO	PSNGR CAR	01 DRVR NONE 00 U UNK 000 UNK	000 00	
				02 NONE 9 STRGHT N/A E W		000 00	
				PSNGR CAR	01 DRVR NONE 00 U UNK 000 UNK	000 00	
07439 NNNN 11/22/2017 WASHINGTON CITY N Wed 3P BEAVERTON	1 14 STRGHT MN 0 SW BEAV-HILLSDALE HY E	N (NONE) NONE	N CLD S-1STOP N WET REAR	01 NONE 9 STRGHT N/A E W		27, 000 00	,07
PORTLAND UA No 45 29 11.54 -122 47 7.56	1.37 SW 107TH AVE 06 004000100S00 1	(04)	N DAY PDO	PSNGR CAR	01 DRVR NONE 00 U UNK 000 UNK	000 00	
				02 NONE 9 STOP N/A E W		011 00	
				PSNGR CAR	01 DRVR NONE 00 U UNK 000 UNK	000 00	
01545 N N N 03/28/2018 WASHINGTON CITY N Wed 6P BEAVERTON	1 14 ALLEY MN 0 SW BEAV-HILLSDALE HY E	N (NONE) NONE	N CLR O-1 L-TURN N DRY TURN	01 NONE 0 STRGHT PRVTE E W		053 02 000 053 00	
PORTLAND UA No 45 29 11.52 -122 47 7.56	1.37 SW 107TH AVE 06 004000100S00 1	(05)	N DAY INJ	PSNGR CAR	01 DRVR INJB 27 F OR-Y 000 OR<25	000 00	

OREGON DEPARTMENT OF TRANSPORTATION - POLICY, DATA AND ANALYSIS DIVISION

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OREGON DEPARTMENT OF TRANSPORTATION - POLICY, DATA AND ANALYSIS DIVISION TRANSPORTATION DATA SECTION - CRASH ANALYSIS AND REPORTING UNIT CONTINUOUS SYSTEM CRASH LISTING

Crashes on SW Beaverton Hillsdale Hwy (#040), from MP 1.31 to MP 1.38 January 1, 2014 through December 31, 2018

R S U P G S W SER# E A / C O DATE COUNTY INVEST E L M H R DAY/TIME CITY UNLOC? D C J L K LAT/LONG URBAN AREA	RD# FC CONN # CMPT/MLG FIRST STREET RD CHAF MILEPNT SECOND STREET DIRECT LRS INTERSECTION SEQ# LOCTN	INT-TYP R (MEDIAN) INT-REL OFFRD WTHR CRASH TY LEGS TRAF- RNDBT SURF COLL TYP (#LANES) CNTL DRVWY LIGHT SVRTY	SPCL USE P TRLR QTY MOVE A S OWNER FROM PRTC INJ G E LICNS PED V# VEH TYPE TO P# TYPE SVRTY E X RES LOC ERROR	ACTN EVENT CAUSE
			02 NONE 0 TURN-L	019 00
			PSNGR CAR 01 DRVR NONE 37 F EXP 028	000 02
07519 N N N 11/18/2017 WASHINGTON NONE N Sat 11A BEAVERTON	1 14 STRGHT MN 0 SW BEAV-HILLSDALE HY E	N N CLR S-1STOP (NONE) UNKNOWN N DRY REAR	01 NONE 9 STRGHT N/A E W	29 000 00
PORTLAND UA No 45 29 11.55 -122 47 6.81	1.38 SW 107TH AVE 06 004000100S00 1	N DAY PDO (04)	PSNGR CAR 01 DRVR NONE 00 U UNK 000 UNK	000 00
			02 NONE 9 STOP N/A E W	011 00
			PSNGR CAR 01 DRVR NONE 00 U UNK 000	000 00

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OREGON DEPARTMENT OF TRANSPORTATION - POLICY, DATA AND ANALYSIS DIVISION TRANSPORTATION DATA SECTION - CRASH ANALYSIS AND REPORTING UNIT CONTINUOUS SYSTEM CRASH LISTING

Intersectional Crashes at SW Beaverton-Hillsdale Hwy (#040) & SW 107th Ave January 1, 2014 through December 31, 2018

S U P G S W SER# E A / C O DATE COUNTY INVEST E L M H R DAY/TIME CITY UNLOC? D C J L K LAT/LONG URBAN AREA	RD# FC CONN # CMPT/MLG FIRST STREET RE MILEPNT SECOND STREET DI LRS INTERSECTION SEQ# LC	INT-TYP D CHAR (MEDIAN) INT- IRECT LEGS TRAF OCTN (#LANES) CNTL	-REL OFFRD WTHR CRASH TYP F- RNDBT SURF COLL TYP L DRVWY LIGHT SVRTY	SPCL USE TRLR QTY MOVE OWNER FROM V# VEH TYPE TO	A S PRTC INJ G E LICNS PE P# TYPE SVRTY E X RES LO	d C ERROR ACTN	EVENT CAUSE
05363 NNNNN 08/11/2016 WASHINGTON CITY N Thu 9A BEAVERTON	1 14 IN MN 0 SW BEAV-HILLSDALE HYN	NTER CROSS N TRF S	N CLR PED SIGNAL N DRY PED	01 NONE O TURN-R PRVTE N W		000	32,02 00
PORTLAND UA	1.31 SW 107TH AVE 06	6 0	N DAY INJ	PSNGR CAR	01 DRVR NONE 24 F OR-Y	052,029 000	32,02
NO 15 25 11.51 122 1, 12.00	1			STRGHT W E	01 PED INJC 30 F 01	. 000 035	00
00332 N N N 01/14/2016 WASHINGTON CITY N Thu 3P BEAVERTON	1 14 IN MN 0 SW BEAV-HILLSDALE HY E	NTER 3-LEG N UNKNO	N UNK PED NOWN N UNK PED	01 NONE O TURN-L PRVTE N E		000	02 00
PORTLAND UA	1.31 SW 107TH AVE 05	5 0	N DAY INJ	PSNGR CAR	01 DRVR NONE 68 M OR-Y OR<25	029 000	02
NO 15 25 11.51 122 1, 12.00	1			STRGHT S N	01 PED INJC 22 M 01	. 000 000	00
89610 N N N 09/16/2014 WASHINGTON	1 14 IN	NTER 3-LEG N	N CLR S-1STOP	01 NONE 0 STRGHT		000	07
No MIT N THE 21 DEAVERION PORTLAND UA No 45 29 11.54 -122 47 12.06	1.31 SW 107TH AVE 06 004000100S00 1	6 0	N DAY PDO	PSNGR CAR	01 DRVR NONE 30 F UNK OR<25	026 000	07
				02 NONE O STOP PRVTE E W		011	00
				PSNGR CAR	01 DRVR NONE 88 F OR-Y OR<25	000 000	00
05688 N N N 09/21/2015 WASHINGTON NONE N Mon 6P BEAVERTON	1 14 IN MN 0 SW BEAV-HILLSDALE HY E	NTER 3-LEG N TRF S	N CLR S-1STOP SIGNAL N DRY REAR	01 NONE O STRGHT PRVTE E W		000	013 29 00
PORTLAND UA No 45 29 11.54 -122 47 12.06	1.31 SW 107TH AVE 06 004000100S00 1	6 0	N DAY PDO	PSNGR CAR	01 DRVR NONE 68 F OR-Y OR<25	026 000	29
				02 NONE O STOP PRVTE E W		011	013 00
				PSNGR CAR	01 DRVR NONE 54 F OR-Y OR<25	000 000	00
				03 NONE O STOP UNKN E W		022	00
				PSNGR CAR	01 DRVR NONE 00 U UNK UNK	000 000	00
01411 N N N 02/01/2016 WASHINGTON NONE N Mon 8P BEAVERTON	1 14 IN MN 0 SW BEAV-HILLSDALE HY E	NTER CROSS N TRF S	N RAIN S-1STOP SIGNAL N WET REAR	01 NONE 9 STRGHT N/A E W		000	29 00
PORTLAND UA No 45 29 11.54 -122 47 12.06	1.31 SW 107TH AVE 06 004000100S00 1	6 0	N DLIT PDO	UNKNOWN	01 DRVR NONE 00 U UNK UNK	000 000	00

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OREGON DEPARTMENT OF TRANSPORTATION - POLICY, DATA AND ANALYSIS DIVISION TRANSPORTATION DATA SECTION - CRASH ANALYSIS AND REPORTING UNIT CONTINUOUS SYSTEM CRASH LISTING

Intersectional Crashes at SW Beaverton-Hillsdale Hwy (#040) & SW 107th Ave January 1, 2014 through December 31, 2018

R S U P G S W SER# E A / C O DATE COUNTY INVEST E L M H R DAY/TIME CITY UNLOC? D C J L K LAT/LONG URBAN AREA	RD# FC CONN # CMPT/MLG FIRST STREET RD CHAR MILEPNT SECOND STREET DIRECT LRS INTERSECTION SEQ# LOCTN	INT-TYP (MEDIAN) INT-REL OFFRD LEGS TRAF- RNDBT (#LANES) CNTL DRVWY) WTHR CRASH TYP SURF COLL TYP LIGHT SVRTY V#	SPCL USE TRLR QTY MOVE OWNER FROM VEH TYPE TO	A PRTC INJ G P# TYPE SVRTY E	S E LICNS PED X RES LOC ERROR	ACTN EVENT	CAUSE
			02	NONE 9 STOP			011	0.0
				PSNGR CAR	01 DRVR NONE 00	U UNK 000 UNK	000	00
02118 N N N 04/23/2018 WASHINGTON NONE N Mon 4P BEAVERTON	1 14 INTER MN 0 SW BEAV-HILLSDALE HY E	CROSS N N TRF SIGNAL N	CLR S-1STOP 01 DRY REAR	NONE O STRGHT PRVTE E W			000	29 00
PORTLAND UA No 45 29 11.54 -122 47 12.06	1.31 SW 107TH AVE 06 004000100S00 1	0 N	DAY INJ	PSNGR CAR	01 DRVR NONE 31	M OR-Y 026 OR<25	000	29
			02	NONE O STOP PRVTE E W			011	00
				PSNGR CAR	01 DRVR INJC 46	M OR-Y 000 OR<25	000	00
					02 PSNG INJC 41	F 000	000	00
00688 N N N 02/05/2014 WASHINGTON NONE N Wed 3P BEAVERTON	1 14 INTER MN 0 SW BEAV-HILLSDALE HY W	3-LEG N N TRF SIGNAL N	CLR O-1 L-TURN 01 DRY TURN	NONE 0 TURN-L PRVTE S W			018	29 00
PORTLAND UA No 45 29 11.54 -122 47 12.06	1.31 SW 107TH AVE 05 004000100S00 1	0 У	DAY PDO	PSNGR CAR	01 DRVR NONE 17	M OR-Y 042 OR<25	000	29
			02	NONE O TURN-R PRVTE N W			000	00
				PSNGR CAR	01 DRVR NONE 00	U UNK 000 UNK	000	00
08136 N N N 12/29/2015 WASHINGTON NONE N Tue 5P BEAVERTON	1 14 INTER MN 0 SW BEAV-HILLSDALE HY W	CROSS N N TRF SIGNAL N	CLR O-OTHER 01 WET TURN	NONE O TURN-R PRVTE N W			000	08 00
PORTLAND UA No 45 29 11.54 -122 47 12.06	1.31 SW 107TH AVE 05 004000100S00 1	0 N	DLIT PDO	PSNGR CAR	01 DRVR NONE 00	F UNK 007 UNK	000	08
			02	NONE O TURN-L PRVTE S W			000	00
				PSNGR CAR	01 DRVR NONE 28	M OR-Y 000 OR<25	000	00
00946 N N N 02/18/2017 WASHINGTON NONE N Sat 2P BEAVERTON	1 14 INTER MN 0 SW BEAV-HILLSDALE HY W	3-leg n n Trf signal n	CLR S-1STOP 01 DRY REAR	NONE O STRGHT UNKN W E			013 000	29 00
PORTLAND UA No 45 29 11.54 -122 47 12.06	1.31 SW 107TH AVE 06 004000100S00 1	0 N	DAY INJ	PSNGR CAR	01 DRVR NONE 00	F OTH-Y 026 UNK	000	29
			02	NONE O STOP PRVTE W E			011 013	0.0
				PSNGR CAR	01 DRVR INJC 58	F OR-Y 000 OR<25	000	00

SER# INVES UNLOC	R S U P G S E A / C T E L M H ? D C J L	W O DATE R DAY/TIME K <i>LAT/LONG</i>	COUNTY CITY URBAN AREA	RD# FC CMPT/MLG MILEPNT LRS	CONN # FIRST STREET SECOND STREET INTERSECTION SEQ#	RD CHAR DIRECT LOCTN	INT-TYP (MEDIAN) LEGS (#LANES)	INT-REL TRAF- CNTL	OFFRD WTHE RNDBT SURE DRVWY LIGE	R CRASH TYP F COLL TYP HT SVRTY	SPCL USE P TRLR QTY OWNER V# VEH TYPE	MOVE FROM TO	PRTC INJ P# TYPE SVRTY	A S G E LICNS E X RES	PED LOC ERROR	ACTN EVENT	CAUSE
											03 NONE () STOP				022	0.0
											PRVIE PSNGR CAR	W E	01 DRVR NONE	42 F OR-Y OR<25	000	000	00
00642 CITY	N N N N N	N 02/06/2018 Tue 5A	WASHINGTON BEAVERTON	1 14 MN 0	SW BEAV-HILLSDALE H	INTER IY CN	3-LEG	N TRF SIGNA	N CLR AL N DRY	ANGL-OTH TURN	01 NONE (PRVTE) STRGHT E W				000	04,22 22
No	45 29	11.54 -122	PORTLAND UA 47 12.06	1.31 004000100	SW 107TH AVE)S00 1	01	0		N DLIT	INJ	PSNGR CAR	ł	01 DRVR NONE	44 F OTH-Y N-RES	020	000	04
											02 NONE (PRVTE) TURN-L N E				000	00
											PSNGR CAR	ł	01 DRVR INJC	30 M OR-Y OR<25	000	000	00
03672 NONE	N N N N	07/16/2018 Mon 8P	WASHINGTON BEAVERTON	1 14 MN 0	SW BEAV-HILLSDALE H	INTER IY CN	CROSS	N TRF SIGNA	N CLR AL N DRY	ANGL-OTH TURN	01 NONE 9 N/A	9 STRGHT E W				000	02,04 00
No	45 29	11.54 -122	PORTLAND UA 47 12.06	1.31 004000100	SW 107TH AVE DS00 1	01	0		N DAY	PDO	PSNGR CAR	ł	01 DRVR NONE	00 U UNK UNK	000	000	00
											02 NONE 9 N/A	9 TURN-L N E				000	00
											PSNGR CAR	ł.	01 DRVR NONE	00 U UNK UNK	000	000	00
06805 CITY	N N N N N	N 12/11/2018 Tue 11A	WASHINGTON BEAVERTON	1 14 MN 0	SW BEAV-HILLSDALE H	INTER IY CN	3-LEG	N TRF SIGNA	N CLD AL N DRY	ANGL-OTH TURN	01 NONE (PRVTE) STRGHT E W				000	04 00
No	45 29	11.54 -122	PORTLAND UA 47 12.06	1.31 004000100	SW 107TH AVE DS00 1	01	0		N DAY	INJ	PSNGR CAR	ł	01 DRVR NONE	41 M OR-Y OR<25	020	000	04
											02 NONE C PRVTE) TURN-L N E				000	00
											PSNGR CAR	ł	01 DRVR INJC	40 F OR-Y OR<25	000	000	00
01490 NONE	N N N N	02/12/2014 Wed 4P	WASHINGTON BEAVERTON	1 14 MN 0	SW BEAV-HILLSDALE H	INTER HY CN	3-LEG	N TRF SIGNA	N CLR AL N DRY	0-1 L-TURN TURN	N 01 NONE C PRVTE) STRGHT E W				000	02 00
No	45 29	11.54 -122	PORTLAND UA 47 12.06	1.31 004000100	SW 107TH AVE DS00 1	02	0		N DAY	INJ	PSNGR CAR	R	01 DRVR INJC	63 M OR-Y OR<25	000	000	00
											02 NONE C PRVTE) TURN-L W N				000	00
											PSNGR CAR	ł	01 DRVR NONE	43 F OR-Y OR<25	004,028	000	02

CDS380 10/28/2020	OREGON	DEPARTMENT OF TRANSPO TRANSPORTATION DATA SI CONTINU	ORTATION - POLICY, DATA ECTION - CRASH ANALYSIS JOUS SYSTEM CRASH LISTI	A AND ANALYSIS DIVISION S AND REPORTING UNIT NG		PAGE: 4
040 BEAVERTON-HILLSDALE D	Interse	ctional Crashes at SW January 1, 2	Beaverton-Hillsdale H 2014 through December 3	wy (#040) & SW 107th Ave 81, 2018		
R S U P G S W SER# E A / C O DATE COUNTY INVEST E L M H R DAY/TIME CITY UNLOC? D C J L K <i>LAT/LONG</i> URBAN AREA	RD# FC CONN # CMPT/MLG FIRST STREET RD CH MILEPNT SECOND STREET DIREC LRS INTERSECTION SEQ# LOCTN	INT-TYP AR (MEDIAN) INT-REL (T LEGS TRAF- 1 (#LANES) CNTL 1	OFFRD WTHR CRASH TYP RNDBT SURF COLL TYP DRVWY LIGHT SVRTY N	SPCL USE TRLR QTY MOVE OWNER FROM PRTC INJ V# VEH TYPE TO P# TYPE SVRTY	A S G E LICNS PED E X RES LOC ERROR	ACTN EVENT CAUSE
00905 N N N 02/16/2017 WASHINGTON NONE N Thu 11A BEAVERTON	1 14 INTER MN 0 SW BEAV-HILLSDALE HY CN	CROSS N TRF SIGNA	N RAIN O-1 L-TURN (L N WET TURN	D1 NONE 9 TURN-L N/A W N		02 000 00
PORTLAND UA No 45 29 11.54 -122 47 12.06	1.31 SW 107TH AVE 02 004000100S00 1	0	N DAY PDO	PSNGR CAR 01 DRVR NONE	00 U UNK 000 UNK	000 00
			C	D2 NONE 9 STRGHT N/A E W		000 00
				PSNGR CAR 01 DRVR NONE	00 U UNK 000 UNK	000 00
01815 NNNNN 04/13/2018 WASHINGTON CITY N Fri 9P BEAVERTON	1 14 INTER MN 0 SW BEAV-HILLSDALE HY CN	CROSS N TRF SIGNA	N CLD 0-1 L-TURN (L N DRY TURN	D1 NONE O STRGHT PRVTE E W		02
PORTLAND UA No 45 29 11.54 -122 47 12.06	1.31 SW 107TH AVE 02 004000100S00 1	0	N DLIT INJ	PSNGR CAR 01 DRVR NONE	16 F OR-Y 000 OR<25	000 00
			C	D2 NONE O TURN-L PRVTE W N		000 00
				PSNGR CAR 01 DRVR INJC	25 F OR-Y 028,004 OR<25	000 02
07928 N N N 12/30/2014 WASHINGTON NO RPT N Tue 3P BEAVERTON	1 14 INTER MN 0 SW BEAV-HILLSDALE HY CN	3-leg n Trf signa	N CLR ANGL-OTH (L N DRY TURN	D1 NONE O TURN-L PRVTE N E		04
PORTLAND UA No 45 29 11.54 -122 47 12.06	1.31 SW 107TH AVE 03 004000100S00 1	0	N DAY INJ	PSNGR CAR 01 DRVR NONE	59 F OR-Y 097 OR<25	000 00
			C	D2 NONE O STRGHT PRVTE W E		000 00
				PSNGR CAR 01 DRVR INJC	45 F OR-Y 097 OR<25	000 00
02540 N.N.N. 06/25/2015 NACUINCTON	1 14 דיסווע דאושיט			02 PSNG INJC	14 F 000	000 00
CITY N Thu 1P BEAVERTON	MN 0 SW BEAV-HILLSDALE HY CN	S-LEG N TRF SIGNA	L N DRY TURN	PRVTE E S		000 00
PORTLAND UA No 45 29 11.54 -122 47 12.06	1.31 SW 107TH AVE 03 004000100S00 1	0	N DAY INJ	PSNGR CAR 01 DRVR INJC	61 F OR-Y 004,028 OR<25	000 02
			C	02 NONE O STRGHT PRVTE W E		000 00
				PSNGR CAR 01 DRVR INJB	18 M OR-Y 000 OR<25	000 00
05457 N N N 09/21/2015 WASHINGTON NO RPT N Mon 6P BEAVERTON	1 14 INTER MN 0 SW REAV-HILLSDALE HY CN	3-LEG N TRE SIGNA	N CLR O-1 L-TURN (D1 NONE O STRGHT PRVTE W E		02
PORTLAND UA No 45 29 11.54 -122 47 12.06	1.31 SW 107TH AVE 03 004000100S00 1	0	Y DAY PDO	PSNGR CAR 01 DRVR NONE	37 F OR-Y 000 OR<25	000 00

	TR	ANSPORTATION DATA SI CONTINU	ECTION - CRASH ANALYSI: OUS SYSTEM CRASH LISTI	S AND REPORTING UNIT ING			
040 BEAVERTON-HILLSDALE D	Intersect	ional Crashes at SW January 1, 2	Beaverton-Hillsdale H 014 through December 3	wy (#040) & SW 107th 31, 2018	Ave		
R SU PGSW SER# EA/CODATE COUNTY CMPT/M INVESTELMHR DAY/TIME CITY UNLOC? DCJLK LAT/LONG URBANAREA LRS	FC CONN # MLG FIRST STREET RD CHAR NT SECOND STREET DIRECT INTERSECTION SEQ# LOCTN	INT-TYP (MEDIAN) INT-REL (LEGS TRAF- H (#LANES) CNTL H	DFFRD WTHR CRASH TYP RNDBT SURF COLL TYP DRVWY LIGHT SVRTY	SPCL USE TRLR QTY MOVE OWNER FROM V# VEH TYPE TO	A S PRTC INJ G E LICNS PED P# TYPE SVRTY E X RES LOC E	RROR ACTN EVENT	CAUSE
			(02 NONE 0 TURN-L		01.0	0.0
				PRVIE E S PSNGR CAR	01 DRVR NONE 19 F OTH-Y 0 OR<25	019	02
03225 N N N 06/01/2017 WASHINGTON 1 1 CITY N Thu 10A BEAVERTON MN	.4 INTER 0 SW BEAV-HILLSDALE HY CN	CROSS N TRF SIGNA	N CLD O-1 L-TURN (L N DRY TURN	01 NONE O TURN-L PRVTE E S		000	04 00
PORTLAND UA 1.31 No 45 29 11.54 -122 47 12.06 004000	SW 107TH AVE 03 0100S00 1	0	N DAY INJ	PSNGR CAR	01 DRVR NONE 74 F OR-Y 0 OR<25	04,020 000	04
			(02 NONE O STRGHT PRVTE W E		000	0.0
				PSNGR CAR	01 DRVR INJC 69 F OR-Y 0 OR<25	00 000	00
03185 N N N N N 06/22/2018 WASHINGTON 1 1	4 INTER 0 SW BEAV-HILLSDALE HY CN	CROSS N TRE SIGNA	N CLR ANGL-OTH (01 NONE 0 TURN-L PRVTE N E		0.0.0	04
PORTLAND UA 1.31	SW 107TH AVE 03	0	N DAY INJ	PSNGR CAR	01 DRVR INJC 58 M OR-Y 0	00 000	00
NO 45 29 11.54 -122 47 12.06 004000	1100500 1				02 PSNG INJB 55 F 0	00 000	00
			(02 NONE O STRGHT PRVTE W E		000	00
				PSNGR CAR	01 DRVR NONE 43 F OR-Y 0 OR<25	20 000	04
01976 N N N 04/07/2014 WASHINGTON 1 1 NO RPT N Mon 5A BEAVERTON MN	4 INTER 0 SW BEAV-HILLSDALE HY CN	3-LEG N TRF SIGNA	N CLR ANGL-OTH (L N DRY TURN	01 NONE O STRGHT PRVTE W E		000	04 00
PORTLAND UA 1.31 No 45 29 11.54 -122 47 12.06 004000	SW 107TH AVE 04 0100800 1	0	N DAWN INJ	PSNGR CAR	01 DRVR INJC 69 F OR-Y 0 OR<25	97 000	04
			(02 NONE 0 TURN-L PRVTE S W		0.0.0	0.0
				PSNGR CAR	01 DRVR INJC 30 M OR-Y 0 0R<25	97 000	04
05256 N N N 09/11/2015 WASHINGTON 1 1 NO RPT N Fri 12P BEAVERTON MN	.4 INTER 0 SW BEAV-HILLSDALE HY CN	3-leg n Trf Signa	N CLR O-1 L-TURN (L N DRY TURN	01 NONE O STRGHT PRVTE S N		087	02 00
PORTLAND UA 1.31 No 45 29 11.54 -122 47 12.06 004000	SW 107TH AVE 04 0100S00 1	0	Y DAY INJ	PSNGR CAR	01 DRVR INJC 46 M OR-Y 0 OR<25	00 000	00

OREGON DEPARTMENT OF TRANSPORTATION - POLICY, DATA AND ANALYSIS DIVISION

02	NONE	0	TUI	RN-L										
	PRVTE		Ν	Ε								000	087	00
	SEMI TO	W			01	DRVR	NONE	22	М	OR-Y	004,028	000		02

OR<25

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UNLOC?	DC	JLK	LAT/LONG	DISTNC	INTERSECTION SEQ #	LOCTN	(#LANES)	CONTL I	DRVWY	LIGHT	SVRTY	V# OWNER	TO	P#	TYPE	SVRTY	E	K RES	LOC ERROR	ACTN EVENT	CAUSE
00098	NNN		01/07/2014	19	SW BEAV-HILLSDALE HY	INTER	3-LEG	Ν	N	CLD	S-1STOP	01 NONE 0	STRGHT								07
NONE	N		Tue 5P	0	SW 107TH AVE	N		TRF SIGNA	AL N	WET	REAR	PRVTE	N S							000	00
No	45 29	11.54	-122 47 12	.06	1	06	0		Ν	DLIT	INJ	PSNGR CAR		01	DRVR	NONE	00	F UNK N-RES	026	000	07
												02 NONE 0	STOP								
												PRVTE	N S							011	00
												PSNGR CAR		01	DRVR	INJC	48	F OR-Y OR<25	000	000	00
03970	NNN		08/01/2018	19	SW BEAV-HILLSDALE HY	INTER	3-LEG	N	N	CLR	S-1STOP	01 NONE 0	STRGHT								27,29
NONE	N		Wed 8P	0	SW 107TH AVE	N		TRF SIGNA	AL N	DRY	REAR	PRVTE	N S							000	00
No	45 29	11.54	-122 47 12	.06	1	06	0		Ν	DUSK	INJ	PSNGR CAR		01	DRVR	NONE	22	F OR-Y OR<25	016,026	038	27,29
												02 NONE 0	STOP								
												PRVTE	N S							011	00
												PSNGR CAR		01	DRVR	INJC	55 1	4 OR-Y OR<25	000	000	00
														02	PSNG	INJC	00	7	000	000	00

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SER# INVES UNLOC	S U P G S E A / C T E L M H ? D C J L	W O DATE R DAY/TIME K <i>LAT/LONG</i>	COUNTY CITY URBAN AREA	RD# FC CMPT/MLG MILEPNT LRS	CONN # FIRST STREET SECOND STREET INTERSECTION SEQ#	RD CHAR DIRECT LOCTN	INT-TYP (MEDIAN) LEGS (#LANES)) INT-REL C TRAF- F) CNTL E	FFRD WTHE NDBT SURE RVWY LIGE	R CRASH TYI F COLL TYP HT SVRTY	SPCL USE TRLR QTY OWNER V# VEH TYPE	MOVE FROM TO	PRTC INJ P# TYPE SVRTY	A S G E (E X	LICNS PED RES LOC) C ERROR	ACTN EVENT	CAUSE
06246 NONE	N N N N	11/12/2019 Tue 4P	WASHINGTON	1 14 MN 0	SW BEAV-HILLSDALE F	INTER	3-LEG	N TRE SIGNAI	N CLR	S-1STOP REAR	01 NONE (PRVTE) STRGHT W E					099	29
No	45 29	11.54 -122	PORTLAND UA 47 12.06	1.31 00400010	SW 107TH AVE 0S00 1	06	0		Y DAY	INJ	PSNGR CAR		01 DRVR NONE	21 F	OR-Y OR<25	026	000 099	29
											02 NONE (PRVTE) STOP W E					011	00
											PSNGR CAR	l	01 DRVR INJC	21 F	OR-Y	000	000	00
													02 PSNG INJC	01 F	01(<2.5	000	000	00
06867 NONE	N N N N	12/23/2019 Mon 10A	WASHINGTON BEAVERTON	1 14 MN 0	SW BEAV-HILLSDALE H	INTER IY W	CROSS	N TRF SIGNAI	N CLR N DRY	S-STRGHT SS-O	01 NONE 9 N/A) STRGHT W E					000	13 00
No	45 29	11.54 -122	PORTLAND UA 47 12.06	1.31 00400010	SW 107TH AVE 0S00 1	06	0		N DAY	PDO	PSNGR CAR	L	01 DRVR NONE	00 U	UNK UNK	000	000	00
											02 NONE 9 N/A) STRGHT W E					000	00
											PSNGR CAR	L	01 DRVR NONE	00 U	UNK UNK	000	000	00
06538 COUNI	NNNN Y N	N 12/10/2019 Tue 3P	WASHINGTON BEAVERTON	1 14 MN 0	SW BEAV-HILLSDALE H	INTER IY CN	CROSS	N UNKNOWN	N RAIN N WET	O-OTHER TURN	01 NONE S N/A) TURN-R N W					000	08 00
No	45 29	11.54 -122	PORTLAND UA 47 12.06	1.31 00400010	SW 107TH AVE 0S00 1	01	0		N DAY	PDO	PSNGR CAR	1	01 DRVR NONE	00 U	UNK UNK	000	000	00
											02 NONE 9) TURN-L S W					000	0.0
											PSNGR CAR		01 DRVR NONE	00 U	UNK UNK	000	000	00
02226 CITY	N N N N N	N 05/04/2019 Sat 7A	WASHINGTON BEAVERTON	1 14 MN 0	SW BEAV-HILLSDALE H	INTER IY CN	CROSS	N TRF SIGNAI	N CLR N DRY	0-1 L-TURN TURN	N 01 NONE (PRVTE) TURN-L W N					000	02,40 00
No	45 29	11.54 -122	PORTLAND UA 47 12.06	1.31 00400010	SW 107TH AVE 0S00 1	02	0		N DAY	INJ	PSNGR CAR	L.	01 DRVR NONE	71 M	I OR-Y OR<25	028,004	026	02,40
											02 NONE (PRVTE) STRGHT E W					000	00
											PSNGR CAR	ł	01 DRVR INJC	32 M	I OR-Y OR<25	000	000	00
03733 NONE	N N N N	07/25/2019 Thu 1P	WASHINGTON	1 14 MN 0	SW BEAV-HILLSDALE F	ALLEY	(NONE)	n N	N CLR	ANGL-OTH TURN	01 NONE 9) STRGHT W E					000	02
No	45 29	11.54 -122	PORTLAND UA 47 8.30	1.36 00400010	SW 107TH AVE 0S00 1	04	(04)		N DAY	PDO	PSNGR CAR		01 DRVR NONE	00 U	UNK UNK	000	000	00

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OREGON DEPARTMENT OF TRANSPORTATION - POLICY, DATA AND ANALYSIS DIVISION TRANSPORTATION DATA SECTION - CRASH ANALYSIS AND REPORTING UNIT CONTINUOUS SYSTEM CRASH LISTING

R S U P G S W SER# E A / C O DATI INVEST E L M H R DAY, UNLOC? D C J L K LAT,	E (/TIME (<i>/LONG</i> [COUNTY CITY JRBAN AREA	RD# FC CMPT/MLG MILEPNT LRS	CONN # FIRST STREET SECOND STREET INTERSECTION SEQ#	RD CHAR DIRECT LOCTN	INT-TYP (MEDIAN) LEGS (#LANES)	INT-REL TRAF- CNTL	OFFRD WTHR RNDBT SURF DRVWY LIGH	CRASH TYI COLL TYP T SVRTY	SPCL USE P TRLR QTY OWNER V# VEH TYPE	MOVE FROM TO	PRTC INJ P# TYPE SVRT	A GI YE	S E LICNS X RES	PED LOC	ERROR	ACTN EVENT	CAUSE
										02 NONE 9	TURN-L							
										N/A	SW	01 DDUD NONE	0.0			000	018	00
										PSNGR CAR		UI DRVR NONE	00	UNK		000	000	00
05597 NNN 04/0)3/2019 W	ASHINGTON	1 14		ALLEY		N	N CLR	ANGL-OTH	01 NONE 9	TURN-R						01.0	02
NO RPT N Wed	3P E	SEAVERTON	MN U	SW BEAV-HILLSDALE	HY W	(NONE)	UNKNOWN	N DRY	TURN	N/A	SE	A1 DEVE NOVE	0.0			000	018	00
No 45 29 11.55	-122 47	7 3.81	1.42 004000100	SW 103RD AVE 0800 1	03	(04)		N DAY	PDO	PSNGR CAR		UI DRVR NONE	00	UNKUNK		000	000	00
										02 NONE 9 N/A) STRGHT W E						000	00
										PSNGR CAR		01 DRVR NONE	00 1	U UNK		000	000	00
														UNK				
05168 NNNNN 10/0 CITY N Tue	8/2019 V 8A F	ASHINGTON BEAVERTON	1 14 MN 0	SW BEAV-HILLSDALE	ALLEY HY W	(NONE)	N N	N CLD N WET	ANGL-OTH TURN	01 NONE C) TURN-R S E						018	02
0111 1. 100	E E	PORTLAND UA	1.42	SW 103RD AVE	03	(110112)	omatomi	N DAY	INJ	PSNGR CAR	5 1	01 DRVR NONE	54 1	M OR-Y		028	000	02
No 45 29 11.52	-122 47	3.81	004000100	1		(04)								OR<25				
										02 NONE C) STRGHT							
										PRVTE	WE						000	00
										PSNGR CAR		01 DRVR INJC	36 :	F OR-Y OR<25	1	000	000	00
05582 NNN 10/2	26/2019 0	ASHINGTON	1 14		ALLEY		N	N CLR	O-OTHER	01 NONE 9) TURN-L							02
NONE N Sat	4P E	BEAVERTON	MN O	SW BEAV-HILLSDALE	HY W	(NONE)	UNKNOWN	N DRY	TURN	N/A	S W						018	00
No 45 29 11 55	–122 47	PORTLAND UA	1.42	SW 103RD AVE	05	(05)		N DAY	PDO	PSNGR CAR		01 DRVR NONE	00 1	U UNK	,	000	000	00
	122 1,	0.01	001000100			(00)				0.2 NONE				01111				
										N/A	N E						018	00
										PSNGR CAR		01 DRVR NONE	00	U UNK	1	000	000	00
03326 NNNNN 06/2	08/2010 M	IN SUITNOTON	1 1/		CTDCUT		N	NCIP	S-1STOD	0.1 NONE (01111				0.7
CITY N Fri	12P E	BEAVERTON	MN 0	SW BEAV-HILLSDALE	HY W	(NONE)	NONE	N DRY	REAR	PRVTE	E W						000	00
	E	PORTLAND UA	1.44	SW 103RD AVE	06			Y DAY	INJ	PSNGR CAR		01 DRVR NONE	16 1	M OR-Y		043	000	07
No 45 29 11.55	-122 47	2.30	004000100	1 1		(04)								OR<25				
										02 NONE C) STOP E. W						011	0.0
										PSNGR CAR		01 DRVR IN.TC	33 1	M OR-Y		000	000	00
										I DIVOIT CAIL		OT DIVIN INDC	55 1	OR<25		000	000	00

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OREGON DEPARTMENT OF TRANSPORTATION - POLICY, DATA AND ANALYSIS DIVISION TRANSPORTATION DATA SECTION - CRASH ANALYSIS AND REPORTING UNIT CONTINUOUS SYSTEM CRASH LISTING

SER# E A / INVEST E L M UNLOC? D C 3	J G S W ' C O DATE 1 H R DAY/TIME J L K <i>LAT/LONG</i>	COUNTY CITY URBAN AREA	RD# FC CMPT/MLG MILEPNT LRS	CONN # FIRST STREET SECOND STREET INTERSECTION SEQ#	RD CHAR DIRECT LOCTN	INT-TYP (MEDIAN) LEGS (#LANES)	INT-REL TRAF- CNTL	OFFRD WTHR RNDBT SURF DRVWY LIGH	CRASH TYF COLL TYP I SVRTY	SPCL USE TRLR QTY OWNER V# VEH TYPE	MOVE FROM TO	PRTC INJ P# TYPE SVRTY	A S G E LICNS E X RES	PED LOC ERROR	ACTN EVENT	CAUSE
02590 NNN NONE N	N 05/22/2019 Wed 4P	WASHINGTON BEAVERTON	1 14 MN 0	SW BEAV-HILLSDALE H	INTER IY W	3-leg	N TRF SIGNA	N CLR AL N DRY	S-1STOP REAR	01 NONE 0 PRVTE	STRGHT W E				000	29 00
No 452	9 11.54 -122	PORTLAND UA 46 57.62	1.50 004000100	SW WESTERN AVE	06	0		N DAY	INJ	PSNGR CAR		01 DRVR NONE	20 M OR-Y OR<25	026	000	29
										02 NONE 0 PRVTE	STOP W E				011	00
										PSNGR CAR		01 DRVR INJC	68 M OR-Y OR<25	000	000	00

Crashes on OR-10, Beaverton-Hillsdale Hwy (#040) from Mile point 1.30 to Mile point 1.51, includes crashes at terminal intersections. January 1, 2019 through December, 31 2019

COLLISION TYPE	FATAL CRASHES	NON- FATAL CRASHES	PROPERTY DAMAGE ONLY	TOTAL CRASHES	PEOPLE KILLED	PEOPLE INJURED	TRUCKS	DRY SURF	WET SURF	DAY	DARK	INTER- SECTION	INTER- SECTION RELATED	OFF- ROAD
YEAR: 2019														
REAR-END	0	3	0	3	0	4	0	3	0	3	0	2	0	0
SIDESWIPE - OVERTAKING	0	0	1	1	0	0	0	1	0	1	0	1	0	0
TURNING MOVEMENTS	0	2	4	6	0	2	0	4	2	6	0	2	0	0
2019 TOTAL	0	5	5	10	0	6	0	8	2	10	0	5	0	0
FINAL TOTAL	0	5	5	10	0	6	0	8	2	10	0	5	0	0

Disclaimers: Effective 2016, collection of "Property Damage Only" (PDO) crash data elements was reduced for vehicles and participants. Age, Gender, License, Error and other elements are no longer available for PDO crash reporting. Please keep this in mind when comparing 2016 PDO crash data to prior years.

A higher number of crashes may be reported as of 2011 compared to prior years. This does not necessarily reflect an increase in annual crashes. The higher numbers may result from a change to an internal departmental process that allows the Crash Analysis and Reporting Unit to add previously unavailable, non-fatal crash reports to the annual data file. Please be aware of this change when comparing pre-2011 crash statistics. For all disclaimers, see https://www.oregon.gov/ODOT/Data/documents/Crash_Data_Disclaimers.pdf.

OREGON DEPARTMENT OF TRANSPORTATION - POLICY, DATA AND ANALYSIS DIVISION TRANSPORTATION DATA SECTION - CRASH ANALYSIS AND REPORTING UNIT STATE HIGHWAY SYSTEM CRASH LOCATIONS - DRIVER BEHAVIOR FORMAT

				М					Т	
				СL					0PI	EOPLE
				O G					Т	S
		Т		М					S	K P
		I	D	РТ					U V VEHICLE	IIAE
SERIA	L	М	A *COUNTY OR	N Y		COLL			R E TYP/OWN	LNLE
NO	DATE	Ε	Y CITY NAME	T P CR	ASH LOCATION	TYPE	EVENT CAU	JSE ERROR	F H #1 #2	L J C D
06246	11/12/2019	4P 1	TU Beaverton	MN R HY	040, BEAVERTON-HILLSDALE AT MP 1.31	REAR	099 29	026	DRY 2 011 011	0 2 N N
06867	12/23/2019	10A N	10 Beaverton	MN R HY	040, BEAVERTON-HILLSDALE AT MP 1.31	SS-O	13		DRY 2 010 010	0 0 N N
02226	05/04/2019	7A S	SA Beaverton	MN R HY	040, BEAVERTON-HILLSDALE AT MP 1.31	TURN	02,	40 028,004	DRY 2 011 011	0 1 N N
06538	12/10/2019	3P 1	U Beaverton	MN R HY	040, BEAVERTON-HILLSDALE AT MP 1.31	TURN	08		WET 2 010 010	0 0 N N
03733	07/25/2019	1P 7	'H Beaverton	MN R HY	040, BEAVERTON-HILLSDALE AT MP 1.36	TURN	02		DRY 2 010 010	0 0 N N
05597	04/03/2019	3p V	NE Beaverton	MN R HY	040, BEAVERTON-HILLSDALE AT MP 1.42	TURN	02		DRY 2 010 010	0 0 N N
05168	10/08/2019	8A 1	'U Beaverton	MN R HY	040, BEAVERTON-HILLSDALE AT MP 1.42	TURN	02	028	WET 2 011 011	0 1 N N
05582	10/26/2019	4P 5	SA Beaverton	MN R HY	040, BEAVERTON-HILLSDALE AT MP 1.42	TURN	02		DRY 2 010 010	0 0 N N
03326	06/28/2019	12P B	R Beaverton	MN R HY	040, BEAVERTON-HILLSDALE AT MP 1.44	REAR	07	043	DRY 2 011 011	0 1 N N
02590	05/22/2019	4P V	VE Beaverton	MN R HY	040, BEAVERTON-HILLSDALE AT MP 1.50	REAR	29	026	DRY 2 011 011	0 1 N N

VEHICLE OWNERSHIP CODES

Code	Short Description	Long Description
0	N/A	Not collected for PDO Crashes
1	PRVTE	Private
2	GOVMT	Government
3	PUBLC	Public
4	RENTL	Rental vehicle
5	STOLN	Stolen vehicle
9	UNKN	Unknown ownership

VEHICLE TYPE CODES

Code	Short Description	Long Description
00	PDO	Not collected for PDO Crashes
01	PSNGR CAR	Passenger car, pickup, light delivery, etc.
02	BOBTAIL	Truck tractor with no trailers (bobtail)
03	FARM TRCTR	Farm tractor or self-propelled farm equipment
04	SEMI TOW	Truck Tractor with trailer/mobile home in tow
05	TRUCK	Truck with non-detachable bed, panel, etc.
06	MOPED	Moped, minibike, seated motor scooter, motor bike
07	SCHL BUS	School bus (includes van)
08	OTH BUS	Other bus
09	MTRCYCLE	Motorcycle, dirt bike
10	OTHER	Other: forklift, backhoe, etc.
11	MOTRHOME	Motorhome
12	TROLLEY	Motorized Street Car/Trolley (no rails/wires)
13	ATV	ATV
14	MTRSCTR	Motorized scooter (standing)
15	SNOWMOBILE	Snowmobile
99	UNKNOWN	Unknown vehicle type

CAUSE CODES

Code	Short Description	Medium Description	Long Description	Code Termination Date
00	NO CODE	NO CODE APPLICABLE	No cause associated at this level	
01	TOO-FAST	TOO FAST FOR COND	Too fast for conditions (not exceed posted speed)	
02	NO-YIELD	FAILED YIELD ROW	Did not yield right-of-way	
03	PAS-STOP	PASSED STOP SIGN	Passed stop sign or red flasher	
04	DIS SIG	DISREGRD TRAF SIGNAL	Disregarded traffic signal	
05	LEFT-CTR	LEFT OF CTR/STRADDLE	Drove left of center on two-way road; straddling	
06	IMP-OVER	IMPROPER PASSING	Improper overtaking	
07	TOO-CLOS	FOLLOW TOO CLOSE	Followed too closely	
08	IMP-TURN	IMPROPER TURN	Made improper turn	
09	DRINKING	ALC OR DRUGS	Alcohol or Drug Involved	12/31/2002
10	OTHR-IMP	OTHER DRIVE ERR	Other improper driving	
11	MECH-DEF	MECH DEFECT	Mechanical defect	
12	OTHER	OTHER	Other (not improper driving)	
13	IMP LN C	IMP LANE CHANGE	Improper change of traffic lanes	
14	DIS TCD	DISRG OTHR TCD	Disregarded other traffic control device	
15	WRNG WAY	WRONG WAY / 1-WAY RD	Wrong way on one-way road; wrong side divided road	
16	FATIGUE	DRIVER FATIGUED	Driver drowsy/fatigued/sleepy	
17	ILLNESS	PHYSICAL ILLNESS	Physical illness	
18	IN RDWY	ILLEGALLY IN RDWY	Non-motorist illegally in roadway	
19	NT VISBL	NOT VISIBLE	Non-motorist not visible; non-reflective clothing	
20	IMP PKNG	IMPROPER PARKING	Vehicle improperly parked	
21	DEF STER	DEFECTIVE STEERING	Defective steering mechanism	
22	DEF BRKE	DEFECTIVE BRAKES	Inadequate or no brakes	
24	LOADSHFT	LOAD SHIFTED	Vehicle lost load or load shifted	
25	TIREFAIL	TIRE FAILURE	Tire Failure	
26	PHANTOM	PHANTOM VEHICLE	Phantom / Non-contact Vehicle	
27	INATTENT	INATTENTION	Inattention	
28	NM INATT	NON-MTRST INATTENT	Non-Motorist Inattention	
29	F AVOID	FAIL AVOID VEH AHEAD	Failed to avoid vehicle ahead	
30	SPEED	EXCED POSTED SPEED	Driving in excess of posted speed	
31	RACING	SPEED RACING	Speed Racing (per PAR)	
32	CARELESS	CARELESS DRIVING	Careless Driving (per PAR)	
33	RECKLESS	RECKLESS DRIVING	Reckless Driving (per PAR)	
34	AGGRESV	AGGRESSIVE DRIVING	Aggressive Driving (per PAR)	
35	RD RAGE	ROAD RAGE	Road Rage (per PAR)	
40	VIEW OBS	VIEW OBSCURED	View obscured	
50	USED MDN	IMP USE MEDIAN/SHLDR	Improper use of median or shoulder	
51	FAIL LN	F MAINT LANE	Failed to maintain lane	12/31/2015
52	OFF RD	RAN OFF RD	Ran off road	12/31/2015

ERR CODES

Code	Short Description	Medium Description	Long Description
000	NONE	NO ERROR	No error
001	WIDE TRN	WIDE TURN	Wide turn
002	CUT CORN	CUT CORNER	Cut corner on turn
003	FAIL TRN	F OBEY TRN	Failed to obey mandatory traffic turn signal, sign or lane markings
004	L IN TRF	LTRN FNT TRAF	Left turn in front of oncoming traffic
005	L PROHIB	LTRN PROHIB	Left turn where prohibited
006	FRM WRNG	T FRM WRNG LN	Turned from wrong lane
007	TO WRONG	T TO WRONG LN	Turned into wrong lane
800	ILLEG U	ILLEG U-TURN	U-turned illegally
009	IMP STOP	IMP STOP	Improperly stopped in traffic lane
010	IMP SIG	IMP/FAIL SIG	Improper signal or failure to signal
011	IMP BACK	IMP BACKING	Backing improperly (not parking)
012	IMP PARK	IMP PARKED	Improperly parked
013	UNPARK	IMP STRT PARK	Improper start leaving parked position
014	IMP STRT	IMP STRT STOP	Improper start from stopped position
015	IMP LGHT	IMP/NO LIGHTS	Improper or no lights (vehicle in traffic)
016	INATTENT	INATTENTION	Inattention (Failure to Dim Lights prior to 4/1/97)
017	UNSF VEH	DR UNSAFE VEH	Driving unsafe vehicle (no other error apparent)
018	OTH PARK	PRK MAN N/CLR	Entering/exiting parked position w/ insufficient clearance; other improper parking maneuver
019	DIS DRIV	DISRG DR SIG	Disregarded other driver's signal
020	DIS SGNL	DISRG TRF SIG	Disregarded traffic signal
021	RAN STOP	DISRG STP SGN	Disregarded stop sign or flashing red
022	DIS SIGN	DISRG WRN SGN	Disregarded warning sign, flares or flashing amber
023	DIS OFCR	DISRG POL/FLG	Disregarded police officer or flagman
024	DIS EMER	DISRG SIR/EMR	Disregarded siren or warning of emergency vehicle
025	DIS RR	DISRG RR SIG	Disregarded RR signal, RR sign, or RR flagman
026	REAR-END	F AVOID STP V	Failed to avoid stopped or parked vehicle ahead other than school bus
027	BIKE ROW	F/YLD ROW BIK	Did not have right-of-way over pedalcyclist
028	NO ROW	NO R-O-W	Did not have right-of-way
029	PED ROW	F/YLD ROW PED	Failed to vield right-of-way to pedestrian
030	PAS CURV	PASS ON CURVE	Passing on a curve
031	PAS WRNG	PASS WRNG SID	Passing on the wrong side
032	PAS TANG	PASS TANGENT	Passing on straight road under unsafe conditions
033	PAS X-WK	PASS STP4PED	Passed vehicle stopped at crosswalk for pedestrian
034	PAS INTR	PASS AT INTER	Passing at intersection
035	PAS HILL	PASS ON HILL	Passing on crest of hill
036	N/PAS ZN	PASS N/PASSNG	Passing in "No Passing" zone
037	PAS TRAF	PASS ONC TRAF	Passing in front of oncoming traffic
038	CUT-IN	CUTTING IN	Cutting in (two lanes - two way only)
039	WRNGSIDE	DR WRONG SIDE	Driving on wrong side of the road (2-way undivided roadways)
040	THRU MED	DR THRU MEDN	Driving through safety zone or over island
041	F/ST BUS	F/STP SCHLBUS	Failed to stop for school bus
042	F/SLO MV	F/SLO SLO VEH	Failed to decrease speed for slower moving vehicle
043	TOO CLOSE	FOLLW TO CLOS	Following too closely (must be on officer's report)
044	STRDL LN	STRD/DR WRNG	Straddling or driving on wrong lanes
045	IMP CHG	IMP LANE CHG	Improper change of traffic lanes

ERR CODES

Code	Short Description	Medium Description	Long Description
046	WRNG WAY	WRNG WY/1 WAY	Wrong way on one-way roadway; wrong side divided road
047	BASCRULE	V BASIC RULE	Driving too fast for conditions (not exceeding posted speed)
048	OPN DOOR	OPN DOOR TRAF	Opened door into adjacent traffic lane
049	IMPEDING	IMPEDING TRAF	Impeding Traffic
050	SPEED	SPEED	Driving in excess of posted speed
051	RECKLESS	RECKLSS DRVNG	Reckless driving (per PAR)
052	CARELESS	CARELSS DRVNG	Careless driving (per PAR)
053	RACING	RACING	Speed Racing (per PAR)
054	X N/SGNL	X-INT NO SGNL	Crossing at intersection, no traffic signal present
055	X W/SGNL	X-INT W/ SGNL	Crossing at intersection, traffic signal present
056	DIAGONAL	X-INT DIAGNL	Crossing at intersection - diagonally
057	BTWN INT	X-BTWN INTER	Crossing between intersections
059	W/TRAF-S	W SHLD W/TRAF	Walking, running, riding, etc., on shoulder WITH traffic
060	A/TRAF-S	W SHLD A/TRAF	Walking, running, riding, etc., on shoulder FACING traffic
061	W/TRAF-P	W PAVE W/TRAF	Walking, running, riding, etc., on pavement WITH traffic
062	A/TRAF-P	W PAVE A/TRAF	Walking, running, riding, etc., on pavement FACING traffic
063	PLAYINRD	PLAY IN RDWY	Playing in street or road
064	PUSH MV	PUSH MV IN RD	Pushing or working on vehicle in road or on shoulder
065	WORK IN RD	WORK IN RD	Working in roadway or along shoulder
070	LAY ON RD	LYING IN RD	Standing or lying in roadway
071	NM IMP USE	N-M IMP USE	Improper use of traffic lane by non-motorist
073	ELUDING	ELUDING	Eluding / Attempt to elude
079	F NEG CURV	FAIL NEG CURV	Failed to negotiate a curve
080	FAIL LN	F MAINT LANE	Failed to maintain lane
081	OFF RD	RAN OFF RD	Ran off road
082	NO CLEAR	MISJUDGE CLR	Driver misjudged clearance
083	OVRSTEER	OVERSTEER	Over-correcting
084	NOT USED	NOT USED	Code not in use
085	OVRLOAD	OVERLOAD	Overloading or improper loading of vehicle with cargo or passengers
097	UNA DIS TC	UNA DISRG TCD	Unable to determine which driver disregarded traffic control device

0.1	Short	Medium	Long
Code	Description	Description	
001	FEL/JUMP	FELL/JUMPED MV	Occupant tell, jumped or was ejected from moving vehicle
002	INTERFER	PSNGR INTERFERED	Passenger Interfered with driver
003	BUG INTF	ANML INTERFERED	Animal or insect in vehicle interfered with driver
004	INDRCT PED	PED INDRCTLY INVLV	Pedestrian indirectly involved (not struck)
005	SUB-PED	SUBSEQUENT PED	"Sub-Ped": pedestrian injured subsequent to collision, etc.
006	INDRCT BIK	BIKE INDRCTLY INVLV	Pedalcyclist indirectly involved (not struck)
007	HITCHIKR	HITCHHIKER	Hitchhiker (soliciting a ride)
800	PSNGR TOW	PSNGR TOWED	Passenger or non-motorist being towed or pushed on conveyance
009	ON/OFF V	ON/OFF STOP VEH	Getting on/off stopped/parked vehicle (occupants only; must have physical contact w/ vehicle)
010	SUB OTRN	SUBSEQ OVERTURN	Overturned after first harmful event
011	MV PUSHD	VEH BEING PUSHED	Vehicle being pushed
012	MV TOWED	VEH TOWED/TOWING	Vehicle towed or had been towing another vehicle
013	FORCED	FORCED BY IMPACT	Vehicle forced by impact into another vehicle, pedalcyclist or pedestrian
014	SET MOTN	MV SET IN MOTION	Vehicle set in motion by non-driver (child released brakes, etc.)
015	RR ROW	RAILROAD ROW	At or on railroad right-of-way (not Light Rail)
016	LT RL ROW	LIGHT RAIL ROW	At or on Light-Rail right-of-way
017	RR HIT V	TRAIN HIT VEH	Train struck vehicle
018	V HIT RR	VEH HIT TRAIN	Vehicle struck train
019	HIT RR CAR	VEH HIT RR CAR	Vehicle struck railroad car on roadway
020	JACKNIFE	JACKKNIFE	Jackknife; trailer or towed vehicle struck towing vehicle
021	TRL OTRN	TRAILER O'TURN	Trailer or towed vehicle overturned
022	CN BROKE	TRLR CONN BROKE	Trailer connection broke
023	DETACH TRL	DETCHD TRLR STRKNG	Detached trailing object struck other vehicle, non-motorist, or object
024	V DOOR OPN	V DOOR OPN IN TRAF	Vehicle door opened into adjacent traffic lane
025	WHEELOFF	WHEEL CAME OFF	Wheel came off
026	HOOD UP	HOOD FLEW UP	Hood flew up
028	LOAD SHIFT	LOAD SHIFTED	Lost load, load moved or shifted
029	TIREFAIL	TIRE FAILURE	Tire failure
030	PET	PET	Pet: cat, dog and similar
031	LVSTOCK	LIVESTOCK	Stock: cow, calf, bull, steer, sheep, etc.
032	HORSE	HORSE	Horse, mule, or donkey
033	HRSE&RID	HORSE & RIDER	Horse and rider
034	GAME	GAME NO DEER/ELK	Wild animal, game (includes birds; not deer or elk)
035	DEER ELK	DEER OR ELK	Deer or elk, wapiti
036	ANML VEH	ANIMAL-DRAWN VEH	Animal-drawn vehicle
037	CULVERT	CULVERT/MANHOLE	Culvert, open low or high manhole
038	ATENUATN	IMPACT CUSHION	Impact attenuator
039	PK METER	PARKING METER	Parking meter
040	CURB	CURB	Curb (also narrow sidewalks on bridges)
041	JIGGLE	JIGGLE BAR N/MED	Jiggle bar or traffic snake for channelization

	Short	Medium	Long
Code	Description	Description	Description
042	GDRL END	GUARDRAIL END	Leading edge of guardrail
043	GARDRAIL	GUARDRAIL	Guard rail (not metal median barrier)
044	BARRIER	MEDIAN BARRIER	Median barrier (raised or metal)
045	WALL	WALL	Retaining wall or tunnel wall
046	BR RAIL	BRIDGE RAIL	Bridge railing or parapet (on bridge or approach)
047	BR ABUTMNT	BRIDGE ABUTMENT	Bridge abutment (included "approach end" thru 2013)
048	BR COLMN	BRIDGE COLUMN	Bridge pillar or column
049	BR GIRDR	BRIDGE GIRDER	Bridge girder (horizontal bridge structure overhead)
050	ISLAND	TRAFFIC ISLAND	Traffic raised island
051	GORE	GORE	Gore
052	POLE UNK	POLE-UNKNOWN	Pole – type unknown
053	POLE UTL	POLE-UTILITY	Pole – power or telephone
054	ST LIGHT	POLE-ST LIGHT	Pole – street light only
055	TRF SGNL	POLE-TRAF SIGNAL	Pole – traffic signal and ped signal only
056	SGN BRDG	POLE-SIGN BRIDGE	Pole – sign bridge
057	STOPSIGN	STOP/YIELD SIGN	Stop or yield sign
058	OTH SIGN	OTHER SIGN	Other sign, including street signs
059	HYDRANT	HYDRANT	Hydrant
060	MARKER	DELINEATOR	Delineator or marker (reflector posts)
061	MAILBOX	MAILBOX	Mailbox
062	TREE	TREE/STUMP	Tree, stump or shrubs
063	VEG OHED	VEGTN OVER RDWY	Tree branch or other vegetation overhead, etc.
064	WIRE/CBL	CABLE ACROSS RD	Wire or cable across or over the road
065	TEMP SGN	TEMP SIGN/BARR	Temporary sign or barricade in road, etc.
066	PERM SGN	PERM SIGN/BARR	Permanent sign or barricade in/off road
067	SLIDE	SLIDE/ROCKS	Slides, fallen or falling rocks
068	FRGN OBJ	FOREIGN OBJECT	Foreign obstruction/debris in road (not gravel)
069	EQP WORK	EQUIP WORKING	Equipment working in/off road
070	OTH EQP	OTHER EQUIPMENT	Other equipment in or off road (includes parked trailer, boat)
071	MAIN EQP	MAINTNCE EQUIP	Wrecker, street sweeper, snow plow or sanding equipment
072	OTHER WALL	OTHER WALL	Rock, brick or other solid wall
073	IRRGL PVMT	IRREGULAR PAVEMENT	Other bump (not speed bump), pothole or pavement irregularity (per PAR)
074	OVERHD OBJ	OTHER OVERHEAD OBJ	Other overhead object (highway sign, signal head, etc.); not bridge
075	CAVE IN	CAVE IN	Bridge or road cave in
076	HI WATER	HIGH WATER	High Water
077	SNO BANK	SNOW BANK	Snow Bank
078	LO-HI EDGE	LOW-HIGH PVMNT EDGE	Low or high shoulder at pavement edge
079	DITCH	CUT SLOPE/DITCH	Cut slope or ditch embankment
080	OBJ FRM MV	OBJ FRM OTHR VEH	Struck by rock or other object set in motion by other vehicle (incl. lost loads)
081	FLY-OBJ	OTHER MOVING OBJ	Struck by rock or other moving or flying object (not set in motion by vehicle)
082	VEH HID	VEH OBSCURE VIEW	Vehicle obscured view
083	VEG HID	VEG OBSCURE VIEW	Vegetation obscured view
084	BLDG HID	BLD OBSCURE VIEW	View obscured by fence, sign, phone booth, etc.

	Short	Medium	Long
Code	Description	Description	Description
085	WIND GUST	WIND GUST	Wind Gust
086	IMMERSED	IMMERSION	Vehicle immersed in body of water
087	FIRE/EXP	FIRE/EXPLOSION	Fire or explosion
088	FENC/BLD	FENCE/BUILDING	Fence or building, etc.
089	OTHR CRASH	REFER OTHR CRASH	Crash related to another separate crash
090	TO 1 SIDE	TWO WAY ONE SIDE	Two-way traffic on divided roadway all routed to one side
091	BUILDING	BUILDING	Building or other structure
092	PHANTOM	PHANTOM VEH	Other (phantom) non-contact vehicle
093	CELL PHONE	CELL PHONE PER PAR	Cell phone (on PAR or driver in use)
094	VIOL GDL	VIOL GRAD DR LIC	Teenage driver in violation of graduated license pgm
095	GUY WIRE	GUY WIRE	Guy wire
096	BERM	BERM	Berm (earthen or gravel mound)
097	GRAVEL	GRAVEL IN RDWY	Gravel in roadway
098	ABR EDGE	ABRUPT EDGE	Abrupt edge
099	CELL WTNSD	CELL PHONE WITNESSED	Cell phone use witnessed by other participant
100	UNK FIXD	UNK FIX OBJ	Fixed object, unknown type.
101	OTHER OBJ	OTHER OBJ NOT FIXED	Non-fixed object, other or unknown type
102	TEXTING	TEXTING	Texting
103	WZ WORKER	WZ WORKER	Work Zone Worker
104	ON VEHICLE	RIDE ON VEH EXTERIOR	Passenger riding on vehicle exterior
105	PEDAL PSGR	PSNGR ON PEDALCYCLE	Passenger riding on pedalcycle
106	MAN WHLCHR	NONMOTOR WHEELCHAIR	Pedestrian in non-motorized wheelchair
107	MTR WHLCHR	MOTORIZED WHEELCHAIR	Pedestrian in motorized wheelchair
108	OFFICER	POLICE OFFICER	Law Enforcement / Police Officer
109	SUB-BIKE	SUBSEQUENT BICYCLIST	"Sub-Bike": pedalcyclist injured subsequent to collision, etc.
110	N-MTR	NM STR VEH	Non-motorist struck vehicle
111	S CAR VS V	ST CAR STRUCK VEH	Street Car/Trolley (on rails or overhead wire system) struck vehicle
112	V VS S CAR	VEH STRUCK ST CAR	Vehicle struck Street Car/Trolley (on rails or overhead wire system)
113	S CAR ROW	STREET CAR ROW	At or on street car or trolley right-of-way
114	RR EQUIP	VEH STRUCK RR EQUIP	Vehicle struck railroad equipment (not train) on tracks
115	DSTRCT GPS	DISTRACT GPS DEVICE	Distracted by navigation system or GPS device
116	DSTRCT OTH	DISTRACT OTHR DEVICE	Distracted by other electronic device
117	RR GATE	RR DROP-ARM GATE	Rail crossing drop-arm gate
118	EXPNSN JNT	EXPANSION JOINT	Expansion joint
119	JERSEY BAR	JERSEY BARRIER	Jersey barrier
120	WIRE BAR	WIRE BARRIER	Wire or cable median barrier
121	FENCE	FENCE	Fence
123	OBJ IN VEH	LOOSE OBJ IN VEHICLE	Loose object in vehicle struck occupant
124	SLIPPERY	SLIPPERY SURFACE	Sliding or swerving due to wet, icy, slippery or loose surface (not gravel)
125	SHLDR	SHLDR GAVE	Shoulder gave way
126	BOULDER	ROCKS / BOULDER	Rock(s), boulder (not gravel; not rock slide)
127	LAND SLIDE	ROCK OR LAND SLIDE	Rock slide or land slide
128	CURVE INV	CURVE PRESENT	Curve present at crash location

Exhibit J Page 137 of 143

	Short	Medium	Long
Code	Description	Description	Description
129	HILL INV	HILL PRESENT	Vertical grade / hill present at crash location
130	CURVE HID	CURVE OBSCURED VIEW	View obscured by curve
131	HILL HID	HILL OBSCURED VIEW	View obscured by vertical grade / hill
132	WINDOW HID	WINDOW VIEW OBSCURED	View obscured by vehicle window conditions
133	SPRAY HID	SPRAY OBSCURED VIEW	View obscured by water spray
134	TORRENTIAL	TORRENTIAL RAIN	Torrential Rain (exceptionally heavy rain)
135	RAIL OCC	RAIL/CABLE CAR OCC	Injured occupant of railway train, light rail, street car or cable car

Crashes on SW Beaverton Hillsdale Hwy (#040), from MP 1.39 to MP 1.41 January 1, 2014 through December 31, 2018

				· · · · · · · · · · · · · · · · · · ·		J								
COLLISION TYPE	FATAL CRASHES	NON- FATAL CRASHES	PROPERTY DAMAGE ONLY	TOTAL CRASHES	PEOPLE KILLED	PEOPLE INJURED	TRUCKS	DRY SURF	WET SURF	DAY	DARK	INTER- SECTION	INTER- SECTION RELATED	OFF- ROAD
YEAR: 2018														
REAR-END	0	0	1	1	0	0	0	1	0	0	1	0	0	0
2018 TOTAL	0	0	1	1	0	0	0	1	0	0	1	0	0	0
YEAR: 2017														
TURNING MOVEMENTS	0	1	0	1	0	1	0	1	0	1	0	0	0	0
2017 TOTAL	0	1	0	1	0	1	0	1	0	1	0	0	0	0
FINAL TOTAL	0	1	1	2	0	1	0	2	0	1	1	0	0	0

Disclaimers: Effective 2016, collection of "Property Damage Only" (PDO) crash data elements was reduced for vehicles and participants. Age, Gender, License, Error and other elements are no longer available for PDO crash reporting. Please keep this in mind when comparing 2016 PDO crash data to prior years.

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Crashes on SW Beaverton Hillsdale Hwy (#040), from MP 1.31 to MP 1.38 January 1, 2014 through December 31, 2018

				,		0	,							
COLLISION TYPE	FATAL CRASHES	NON- FATAL CRASHES	PROPERTY DAMAGE ONLY	TOTAL CRASHES	PEOPLE KILLED	PEOPLE INJURED	TRUCKS	DRY SURF	WET SURF	DAY	DARK	INTER- SECTION	INTER- SECTION RELATED	OFF- ROAD
YEAR: 2018 TURNING MOVEMENTS 2018 TOTAL	0 0	1 1	1 1	2 2	0 0	1 1	0 0	2 2	0 0	1 1	1 1	0 0	0 0	0 0
YEAR: 2017 REAR-END TURNING MOVEMENTS 2017 TOTAL	0 0 0	1 3 4	3 0 3	4 3 7	0 0 0	1 3 4	0 0 0	3 3 6	1 0 1	4 3 7	0 0 0	0 0 0	0 0 0	0 0 0
YEAR: 2016 SIDESWIPE - OVERTAKING TURNING MOVEMENTS 2016 TOTAL	0 0 0	0 1 1	1 0 1	1 1 2	0 0 0	0 1 1	0 0 0	0 1 1	1 0 1	1 1 2	0 0 0	0 0 0	0 0 0	0 0 0
YEAR: 2015 TURNING MOVEMENTS 2015 TOTAL	0 0	0 0	1 1	1 1	0 0	0 0	0 0	1 1	0 0	1 1	0 0	0 0	0 0	0 0
YEAR: 2014 SIDESWIPE - OVERTAKING TURNING MOVEMENTS 2014 TOTAL	0 0 0	1 0 1	1 1 2	2 1 3	0 0 0	1 0 1	0 0 0	2 1 3	0 0 0	2 1 3	0 0 0	0 0 0	1 1 2	0 0 0
FINAL TOTAL	0	7	8	15	0	7	0	13	2	14	1	0	2	0

Disclaimers: Effective 2016, collection of "Property Damage Only" (PDO) crash data elements was reduced for vehicles and participants. Age, Gender, License, Error and other elements are no longer available for PDO crash reporting. Please keep this in mind when comparing 2016 PDO crash data to prior years.

A higher number of crashes may be reported as of 2011 compared to prior years. This does not necessarily reflect an increase in annual crashes. The higher numbers may result from a change to an internal departmental process that allows the Crash Analysis and Reporting Unit to add previously unavailable, non-fatal crash reports to the annual data file. Please be aware of this change when comparing pre-2011 crash statistics. For all disclaimers, see https://www.oregon.gov/ODOT/Data/documents/Crash_Data_Disclaimers.pdf.

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Intersectional Crashes at SW Laurel St & SW 107th Ave January 1, 2014 through December 31, 2018

		NON-	PROPERTY										INTER-	
	FATAL	FATAL	DAMAGE	TOTAL	PEOPLE	PEOPLE		DRY	WET			INTER-	SECTION	OFF-
COLLISION TYPE	CRASHES	CRASHES	ONLY	CRASHES	KILLED	INJURED	TRUCKS	SURF	SURF	DAY	DARK	SECTION	RELATED	ROAD

YEAR:

TOTAL

FINAL TOTAL

Disclaimers: Effective 2016, *collection of "Property Damage Only" (PDO) crash data elements was reduced for vehicles and participants.* Age, Gender, License, Error and other elements are no longer available for PDO crash reporting. Please keep this in mind when comparing 2016 PDO crash data to prior years.

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Crashes on SW Laurel St within 400 ft (0.08 tenths of a mile) of SW 107th Ave January 1, 2014 through December 31, 2018

FATAL FATAL DAMAGE TOTAL PEOPLE PEOPLE DRY WET INTER- SECTION			NON-	PROPERTY										INTER-	
COLUSION TYPE CRASHES CRASHES ONLY CRASHES KILLED INJURED TRUCKS SURE DAY DARK SECTION RELATED		FATAL	FATAL	DAMAGE	TOTAL	PEOPLE	PEOPLE		DRY	WET			INTER-	SECTION	OFF-
	COLLISION TYPE	CRASHES	CRASHES	ONLY	CRASHES	KILLED	INJURED	TRUCKS	SURF	SURF	DAY	DARK	SECTION	RELATED	ROAD

YEAR:

TOTAL

FINAL TOTAL

Disclaimers: Effective 2016, **collection of "Property Damage Only" (PDO) crash data elements was reduced for vehicles and participants.** Age, Gender, License, Error and other elements are no longer available for PDO crash reporting. Please keep this in mind when comparing 2016 PDO crash data to prior years.

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Intersectional Crashes at SW Beaverton-Hillsdale Hwy (#040) & SW 107th Ave January 1, 2014 through December 31, 2018

COLLISION TYPE	FATAL CRASHES	NON- FATAL CRASHES	PROPERTY DAMAGE ONLY	TOTAL CRASHES	PEOPLE KILLED	PEOPLE	TRUCKS	DRY SURF	WET SURF	DAY	DARK	INTER- SECTION	INTER- SECTION RELATED	OFF- ROAD
YEAR: 2018														
REAR-END	0	2	0	2	0	4	0	2	0	1	1	2	0	0
TURNING MOVEMENTS	0	4	1	5	0	5	0	5	0	3	2	5	0	0
2018 TOTAL	0	6	1	7	0	9	0	7	0	4	3	7	0	0
YEAR: 2017														
REAR-END	0	1	0	1	0	1	0	1	0	1	0	1	0	0
TURNING MOVEMENTS	0	1	1	2	0	1	0	1	1	2	0	2	0	0
2017 TOTAL	0	2	1	3	0	2	0	2	1	3	0	3	0	0
YEAR: 2016														
PEDESTRIAN	0	2	0	2	0	2	0	1	0	2	0	2	0	0
REAR-END	0	0	1	1	0	0	0	0	1	0	1	1	0	0
2016 TOTAL	0	2	1	3	0	2	0	1	1	2	1	3	0	0
YEAR: 2015														
REAR-END	0	0	1	1	0	0	0	1	0	1	0	1	0	0
TURNING MOVEMENTS	0	2	2	4	0	3	1	3	1	3	1	4	0	0
2015 TOTAL	0	2	3	5	0	3	1	4	1	4	1	5	0	0
YEAR: 2014														
REAR-END	0	1	1	2	0	1	0	1	1	1	1	2	0	0
TURNING MOVEMENTS	0	3	1	4	0	5	0	4	0	3	1	4	0	0
2014 TOTAL	0	4	2	6	0	6	0	5	1	4	2	6	0	0
FINAL TOTAL	0	16	8	24	0	22	1	19	4	17	7	24	0	0

Disclaimers: Effective 2016, **collection of "Property Damage Only" (PDO) crash data elements was reduced for vehicles and participants.** Age, Gender, License, Error and other elements are no longer available for PDO crash reporting. Please keep this in mind when comparing 2016 PDO crash data to prior years.

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COUNTY ENTITLEMENT EXISTING SITE PLAN

B REFER TO SHEET C36 FOR ENCROACHMENT NOTES. (A) REFER TO THE BOUNDARY MONUMENT AND SURVEY CONTROL POINT DESCRIPTIONS SHOWN ON SHEET C36.



EXISTING PERVIOUS SOIL OR LANDSCAPE AREA.

	SITE DRAINAGE AREAS TABLES										
AREA NO.	AREA (S.F.)	IMPERVIOUS AREA (S.F./%)	PERVIOUS AREA (S.F./%)								
A1	17,821	14,767 (82.9%)	3,054 (17.1%)								
A2	22,090	20,015 (90.6%)	2,075 (9.4%)								
A-SUBTOTAL	39,911	34,782 (87.1%)	5,129 (12.9%)								
B1	34,188	27,176 (79.5%)	7,012 (20.5%)								
B2	17,690	14,258 (80.6%)	3,432 (19.4%)								
B-SUBTOTAL	51,878	41,434 (79.9%)	10,444 (20.1%)								
С	2,792	93 (3.3%)	2,699 (96.7%)								
TOTAL	94,581	76,309 (90.7%)	18,272 (19.3%)								









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		PROPOSED INOR LEASE PREMISES LINE
IED	VOH	VEHICLE OVERHANG WITH NO OBSTRUCTIONS INCLUDING LIGHT POLES, TREES AND SIGNAGE.
	∃ Na	PGE ELECTRIC PAD MOUNT TRANSFORMER WITH BOLLARDS.
		PORTABLE TRASH RECEPTACLE ON A MINIMUM 24"x24"x4" CONCRETE PAD.
		NEW CONCRETE SIDEWALK.
		REFER TO THE BOUNDARY MONUMENT AND SURVEY CONTROL POINT DESCRIPTIONS SHOWN ON SHEET C36.
00	∘US	DRIVE-THRU CATWALK CONCRETE PAD WITH UMBRELLA STAND PER DETAIL "11" SHOWN ON SHEET C
		PROPOSED 18" TO 27" TALL 22" WIDE STUCCO COVERED SEAT/SCREEN WALL WITH A PRECAST CONCRETE CAP.
	0	PROPOSED PRECAST CONCRETE MODULAR WETLANDS UNIT WETLANDMOD-6-8-5'-0"-V STORMWATER BIOFILTRATION SYSTEM.

LOC INOB LIMITS OF PROPOSED CONSTRUCTION.

CF CURB FACE.

PROPOSED TAN COLOR SPLIT-FACE CMU WALL AND 2" CAP.

- INOB IN-N-OUT BURGER.
- NEW ACCESSIBILITY ENTRY SIGN.
- NEW PEDESTRIAN CROSSWALK SIGN.
- NEW 3' TALL 18"x24" LIT "THANK YOU, NOT ENTER" DIRECTIONAL SIGN.
- NEW 3' TALL 18"x24" LIT "DRIVE THRU" DIRECTIONAL SIGN.
- P PROPERTY LINE.
- VEHICLE DETECTOR LOOP.
- BLACK TRUNCATED DOMES DETECTABLE
- □ □ □ PROPOSED INOB INSTALLED AND MAINTAIN 22'-6" TALL FIXTURE HEIGHT LIGHT POLE ON TOP OF A 30" TALL 24" DIAMETER CONCRETE BASE FOR A TOTAL HEIGHT OF 25' TALL.
- LEGEND MEW 24"x36" CONCRETE DRAIN BOX INLET WITH A FLOGARD PLUS FOSSIL FILTER INSERT FOR THE PRE-TREATMENT OF STORMWATER RUNOFF.

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Exhibit O JN 20011-20011 C35cedasr Page 1 of 118

COUNTY ENTITLEMENT DRAINAGE ANALYSIS SITE PLAN

EXISTING PERVIOUS SOIL OR LANDSCAPE AREA. $\langle \overline{A} \rangle$ REFER TO THE BOUNDARY MONUMENT AND SURVEY CONTROL POINT DESCRIPTIONS SHOWN ON SHEET C36.



SITE DRAINAGE AREAS TABLES						
AREA NO.	AREA (S.F.)	IMPERVIOUS AREA (S.F./%)	PERVIOUS AREA (S.F./%)			
A	39,909	30,213 (75.7%)	9,696 (24.3%)			
В	48,231	37,407 (77.6%)	10,824 (22.4%)			
С	933	0 (0%)	933 (100%)			
D1	1,536	1,138 (74.1%)	398 (25.9%)			
D2	539	94 (17.4%)	445 (82.6%)			
D3	334	37 (11.1%)	297 (88.9%)			
D-SUBTOTAL	2,409	1,269 (52.7%)	1,140 (47.3%)			
E1	744	535 (71.9%)	209 (28.1%)			
E2	2,355	970 (41.2%)	1,385 (58.8%)			
E-SUBTOTAL	3,099	1,505 (48.6%)	1,594 (51.4%)			
TOTAL	94,581	70,394 (74.4%)	24,187 (25.6%)			



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Drainage Study

FOR

In-N-Out Burger – Washington County (Beaverton Area), OR 10565 SW Beaverton Hillsdale Highway

Prepared for:

In-N-Out Burger 13502 Hamburger Lane Baldwin Park, CA 91706 Cassie Yee (626) 813-8226

Prepared by:

MSL Engineering, Inc. 301 North San Dimas Avenue San Dimas, CA 91773 Phone (909) 305-2395, FAX (909) 305-2397





EXPIRES: 12-31-2022

Aaron Pellow, R.C.E. 91119 Principal Engineer

01-19-2022 Date

TABLE OF CONTENTS

Site and Project Description	1
Runoff Treatment and Control	1
Site Conveyance	.5
Conclusions	.6

Attachments

Sheet C31 County Entitlement Existing Site Plan Sheet C35 County Entitlement Drainage Analysis Site Plan

Attachment A – HYDRA Analysis Attachment B – Geotechnical Investigation

Site and Project Description

MSL Engineering, Inc. has prepared this Drainage Study for In-N-Out Burger (INOB) in support of the proposed construction of a new In-N-Out Burger restaurant with drive-thru lane, covered trash enclosure, parking lot, and site landscaping, located at 10565 SW Beaverton Hillsdale Highway. The In-N-Out Burger development is a stand-alone re-development of the existing Hawaiian Time and Azteca Mexican restaurants that are currently located onsite.

The In-N-Out Burger project includes new onsite stormwater treatment and private storm drain piping to convey onsite runoff to the existing offsite storm drain system that discharges runoff to the public system.

Runoff Treatment and Control

The project has been designed in accordance with the Runoff Treatment and Control guidelines within Chapter 4 of the Clean Water Services Design and Construction Standards.

Per Section 4.03.3, "A Hydromodification Assessment is necessary to determine the Reach-Specific Risk Level, Development Class, and Project Size Category for a project." The existing site currently drains to two separate locations, which are identified and shown on the Existing Site Plan Sheet C31. Drainage Areas A and C flow to the north towards SW Laurel Street where it is collected within an existing 12" diameter storm drain and conveyed to the east. Drainage Area B flows to the south towards SW Beaverton Hillsdale Highway where it is collected at an existing manhole and outlets within an existing 12" diameter storm drain the flows to the west.

Risk Level – Using the Clean Water Services Hydromodification Map Web Tool, as shown below the site was determined to be in a "Low Risk" area for the portion of the site that drains to the south to SW Beaverton Hillsdale Highway and "Moderate Risk" area for portions of the site that drain to the north to SW Laurel Street.



MSL engineering, inc.

Page 1

Development Class – Developed Area.

Project Size Category – Medium 12,000 to 80,000 square feet.

Per Table 4-2, the INOB project is considered a Category 2 project.

Per 4.03.5.b:

Projects in Category 2 represent those with a moderate anticipated risk. Any of the following options may be used to address Hydromodification:

- 1. Infiltration facility, using the Standard Sizing, described in Section 4.08.5; or
- 2. Peak-Flow Matching Detention, using design criteria described in Section 4.08.6; or
- 3. Combination of Infiltration facility and Peak-Flow Matching Detention, using criteria described in Section 4.08.5 and 4.08.6; or
- 4. Any option listed in Category 3.

Based on the site-specific Geotechnical Investigation prepared by Krazan & Associates shown in Attachment B, it was determined that the factored infiltration rate is below the minimum 0.5 inches per hour and that the site soils may not be suitable for an onsite stormwater infiltration system. Therefore Option 1 above will not be feasible for this site.

In order to demonstrate compliance with Hydromodification, Peak-Flow Matching Detention, using design criteria described in Section 4.08.6 will be provided within this report.

Per Section 4.08.6.c, "When required as a Hydromodification approach, a combination of on-site detention and infiltration approaches may be used. Approaches shall be designed such that the post-development runoff rates from the site do not exceed the pre-development runoff rates in the table below."

Post-Development Peak Runoff Rate	Pre-Development Peak Runoff Rate Target
2-year, 24-hour	50% of 2-year, 24-hour
5-year, 24-hour	5-year, 24 hour
10-year, 24-hour	10-year, 24-hour

Detention and Treatment Provided

In order to provide the onsite detention required to meet the Section 4.08.6.c guidelines above, as well as water quality treatment, a combination storage storm drain pipe, weir manhole, and Modular Wetlands proprietary treatment system is proposed for the project.

A metered outflow from the storage system will be provided within the weir manhole to control the flow to the Modular Wetlands and provide the required detention. The weir manhole for Drainage Area A will include a 2" orifice and the weir manhole for Drainage Area B will include a 2.5" orifice. The storage provided is within a 42" diameter HDPE storm drain. There is 1,462 cf proposed for Drainage Area A and 1,809 cf proposed for Drainage area B.

Runoff in excess of the water quality flowrate once the storage volume is filled, will overflow through the onsite storm drain system to the outlet.

Peak-Flow Matching

Per Section 4.08.6, Peak-Flow Matching Hydraulic Design has been implemented for the site. Using the HYDRA program, a model was created to simulate the conditions described above and developer the post-development and pre-development peak runoff hydrographs. The final hydrograph reports for the post- and pre- 2, 5, and 10 year runoff are provided is Attachment A. The tabular results are as follows:

Existing Condition								
ID	Area	% Impervious	CN	Тс	Q2	(50%) Q2	Q5	Q10
A1	0.410	0.83	94	5	0.20	0.10	0.26	0.30
A2	0.507	0.91	96	5	0.27	0.14	0.35	0.39
B1	0.785	0.80	93	5	0.36	0.18	0.48	0.55
B2	0.406	0.81	93	5	0.19	0.10	0.25	0.28
С	0.062	0.03	74	5	0	0	0	0.01
Hillsdale Highway					0.55	0.28	0.73	0.83
(B1+B2)								
Laurel Street					0.47	0.24	0.61	0.70
(A1+A2+C)								

Proposed Condition							
ID	Area	% Impervious	CN	Тс	Q2	Q5	Q10
А	0.916	0.76	92	5	0.12	0.21	0.46
В	1.107	0.78	94	5	0.18	0.22	0.30
С	0.021	0.00	74	5	0.00	0.00	0.01
D1	0.035	0.74	92	5	0.02	0.02	0.02
D2	0.012	0.17	78	5	0.00	0.00	0.00
D3	0.008	0.11	77	5	0.00	0.00	0.00
E1	0.017	0.71	60	5	0.01	0.01	0.01
E2	0.054	0.41	84	5	0.01	0.02	0.03
Hillsdale Highway					0.23	0.25	0.34
(B+E1+E2)							
Laurel Street					0.11	0.23	0.49
(A+C+D1+D2+D3)							

The hydrograph results show that with the use of onsite detention the existing condition $(50\%)Q_2$, Q_5 , and Q_{10} is reduced or maintained in the proposed condition.

Water Quality

Per 4.08.5 Standard sizing requirements the Water Quality Volume (WQV) is the volume of water that is produced by the water quality storm. The WQV equals 0.36 inches over the impervious area that is required to be treated as shown in the formula below:

Water Quality Volume (cu.ft.) =
$$\frac{0.36 (in.)*Area (sf)}{12(\frac{in}{ft})}$$

The site drainage areas are shown on the County Entitlement Drainage Analysis Site Plan Sheet C35. There are two sub-areas which collect runoff from 49,840 sf of the total construction limits of 53,269 sf.

For Area A the impervious area is 28,367 sf, and Area B the impervious area is 42,073 sf. Therefore, the required WQV for Drainage Area A is 851 cf and for Drainage Area B is cf. As stated previously, there is 1,462 cf proposed for Drainage Area A and 1,809 cf proposed for Drainage area B.

Site Conveyance

Peak conveyance from the site has been analyzed for the 25-year design storm, using the results from the HYDRA model. The 25-year peak flowrate for the discharge to Hillsdale Highway was determined to be 1.2 cfs and the peak flowrate to Laurel Street was determined to be 0.8 cfs.

Hydraulics

For the following hydraulic calculations, reference should be made to the Handbook of Hydraulics, E.F. Brater & H.W. King, 6th Ed., 1976.

For the discharge pipe from the site, the pipe was sized using the K' values from King's Handbook Appendix 7-14. The following formula was used:

 $Q = \frac{K'}{n} d^{\frac{8}{3}} S^{\frac{1}{2}}$ K' = Discharge Factor = 0.463 for full pipe flow. d = Diameter of Conduit (ft) = 0.67' n = Manning's Coefficient = 0.012 Q = Runoff Discharge (cfs) s = Pipe Slope (ft/ft)

For Drainage Area A the pipe slope can be determined based on gravity flow, which is 0.01. For Drainage Area B the pipe slope is determined based on full-pipe flow. The lowest drain box inlet grate elevation is 9.10 within the drainage area and the pipe soffit elevation at the point of discharge is 4.80. The length of outlet pipe is 210° . Therefore the hydraulic slope is (9.10-4.80)/(210 = 0.02).

Drainage Area A:

 $Q = \frac{0.463}{0.012} 0.67^{\frac{8}{3}} 0.01^{\frac{1}{2}} = 1.3 \text{ cfs} > 0.8 \text{ cfs}$ Drainage Area B: $Q = \frac{0.463}{0.012} 0.67^{\frac{8}{3}} 0.02^{\frac{1}{2}} = 1.9 \text{ cfs} > 1.2 \text{ cfs}$

Conclusions

As demonstrated in this report, the project has been designed in accordance with the Runoff Treatment and Control guidelines within Chapter 4 of the Clean Water Services Design and Construction Standards, providing stormwater treatment and Hydromodification for the site runoff.

The proposed onsite storm drain system has been adequately sized to convey the 25-year design storm underground through the site to the existing offsite storm drain system, as demonstrated within the calculations above.

The In-N-Out building will be protected from onsite flooding as demonstrated within the drainage design shown on the Grading and Drainage Plan, with positive surface drainage provided away from the building to the public right-of-way.







COUNTY ENTITLEMENT EXISTING SITE PLAN

BREFER TO SHEET C36 FOR ENCROACHMENT NOTES.(A)REFER TO THE BOUNDARY MONUMENT AND SURVEY CONTROL
POINT DESCRIPTIONS SHOWN ON SHEET C36.





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A2	22,090	20,015 (90.6%)	2,075 (9.4%)		
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B1	34,188	27,176 (79.5%)	7,012 (20.5%)		
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B-SUBTOTAL	51,878	41,434 (79.9%)	10,444 (20.1%)		
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TOTAL	94,581	76,309 (90.7%)	18,272 (19.3%)		



Exhibit O JN 20011-20011 C35cedasr Page 12 of 118



COUNTY ENTITLEMENT DRAINAGE ANALYSIS SITE PLAN

EXISTING PERVIOUS SOIL OR LANDSCAPE AREA. $\langle \overline{A} \rangle$ REFER TO THE BOUNDARY MONUMENT AND SURVEY CONTROL POINT DESCRIPTIONS SHOWN ON SHEET C36.



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E2	2,355	970 (41.2%)	1,385 (58.8%)			
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TOTAL	94,581	70,394 (74.4%)	24,187 (25.6%)			

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Attachment A

Exhibit O Page 13 of 118

Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volum e (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SBUH Runoff	0.198	2	476	2,782				Existing A1
2	SBUH Runoff	0.358	2	476	5,070				Existing B1
3	SBUH Runoff	0.005	2	480	137				Existing C
4	SBUH Runoff	0.394	2	476	5,630				Proposed A
5	SBUH Runoff	0.477	2	476	6,804				Proposed B
6	SBUH Runoff	0.002	2	480	46				Proposed C
7	Reservoir	0.117	2	556	5,614	4	102.34	1,045	Proposed A Chambers
8	Reservoir	0.176	2	532	6,786	5	101.86	1,001	Proposed B Chambers
9	SBUH Runoff	0.270	2	474	3,794				Existing A2
10	SBUH Runoff	0.185	2	476	2,622				Existing B2
11	Combine	0.473	2	474	6,713	1, 3, 9,			Existing A/C Laurel
12	Combine	0.544	2	476	7,693	2, 10,			Existing B Hillsdale HWY
13	SBUH Runoff	0.015	2	476	215				Proposed D1
14	SBUH Runoff	0.002	2	480	34				Proposed D2
15	SBUH Runoff	0.001	2	480	21				Proposed D3
16	SBUH Runoff	0.007	2	476	99				Proposed E1
17	SBUH Runoff	0.013	2	480	219				Proposed E2
18	Combine	0.207	2	526	8,274	8, 16, 17			Proposed B/E Hillsdale
19	Combine	0.119	2	536	5,520	6, 7, 13,			Proposed A/C/D Laurel
	Combine	0.119		536	5,520	6, 7, 13, 14, 15,			Proposed A/C/D Laurel

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No. 1

Existing A1

Hydrograph type	= SBUH Runoff	Peak discharge	= 0.198 cfs
Storm frequency	= 2 yrs	Time to peak	= 7.93 hrs
Time interval	= 2 min	Hyd. volume	= 2,782 cuft
Drainage area	= 0.410 ac	Curve number	= 94
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 2.50 in	Distribution	= Type IA
Storm duration	= 24 hrs	Shape factor	= n/a



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Hyd. No. 2

Existing B1

Hydrograph type	= SBUH Runoff	Peak discharge	= 0.358 cfs
Storm frequency	= 2 yrs	Time to peak	= 7.93 hrs
Time interval	= 2 min	Hyd. volume	= 5,070 cuft
Drainage area	= 0.785 ac	Curve number	= 93
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 2.50 in	Distribution	= Type IA
Storm duration	= 24 hrs	Shape factor	= n/a



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Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No. 3

Existing C

Hydrograph type	= SBUH Runoff	Peak discharge	= 0.005 cfs
Storm frequency	= 2 yrs	Time to peak	= 8.00 hrs
Time interval	= 2 min	Hyd. volume	= 137 cuft
Drainage area	= 0.062 ac	Curve number	= 74
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 2.50 in	Distribution	= Type IA
Storm duration	= 24 hrs	Shape factor	= n/a



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Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No. 4

Proposed A

Hydrograph type	= SBUH Runoff	Peak discharge	= 0.394 cfs
Storm frequency	= 2 yrs	Time to peak	= 7.93 hrs
Time interval	= 2 min	Hyd. volume	= 5,630 cuft
Drainage area	= 0.916 ac	Curve number	= 92
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 2.50 in	Distribution	= Type IA
Storm duration	= 24 hrs	Shape factor	= n/a



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Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No. 5

Proposed B

Hydrograph type	= SBUH Runoff	Peak discharge	= 0.477 cfs
Storm frequency	= 2 yrs	Time to peak	= 7.93 hrs
Time interval	= 2 min	Hyd. volume	= 6,804 cuft
Drainage area	= 1.107 ac	Curve number	= 92
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 2.50 in	Distribution	= Type IA
Storm duration	= 24 hrs	Shape factor	= n/a



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Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No. 6

Proposed C

Hydrograph type	= SBUH Runoff	Peak discharge	= 0.002 cfs
Storm frequency	= 2 yrs	Time to peak	= 8.00 hrs
Time interval	= 2 min	Hyd. volume	= 46 cuft
Drainage area	= 0.021 ac	Curve number	= 74
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 2.50 in	Distribution	= Type IA
Storm duration	= 24 hrs	Shape factor	= n/a



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Hyd. No. 7

Proposed A Chambers

Hydrograph type	= Reservoir	Peak discharge	= 0.117 cfs
Storm frequency	= 2 yrs	Time to peak	= 9.27 hrs
Time interval	= 2 min	Hyd. volume	= 5,614 cuft
Inflow hyd. No.	= 4 - Proposed A	Max. Elevation	= 102.34 ft
Reservoir name	= Storage A	Max. Storage	= 1,045 cuft

Storage Indication method used.



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Pond Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Pond No. 4 - Storage A

Pond Data

UG Chambers -Invert elev. = 100.00 ft, Rise x Span = 3.50 x 3.50 ft, Barrel Len = 51.00 ft, No. Barrels = 3, Slope = 0.00%, Headers = No

Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (cuft)	Total storage (cuft)
0.00	100.00	n/a	0	0
0.35	100.35	n/a	77	77
0.70	100.70	n/a	133	210
1.05	101.05	n/a	162	372
1.40	101.40	n/a	178	550
1.75	101.75	n/a	186	736
2.10	102.10	n/a	186	923
2.45	102.45	n/a	178	1,101
2.80	102.80	n/a	162	1,263
3.15	103.15	n/a	133	1,396
3.50	103.50	n/a	77	1,472

Culvert / Orifice Structures

	[A]	[B]	[C]	[PrfRsr]		[A]	[B]	[C]	[D]
Rise (in)	= 2.00	2.50	0.00	0.00	Crest Len (ft)	Inactive	Inactive	Inactive	Inactive
Span (in)	= 2.00	50.00	0.00	0.00	Crest El. (ft)	= 0.00	0.00	0.00	0.00
No. Barrels	= 1	1	0	0	Weir Coeff.	= 3.33	3.33	3.33	3.33
Invert El. (ft)	= 100.00	103.25	0.00	0.00	Weir Type	=			
Length (ft)	= 10.00	10.00	0.00	0.00	Multi-Stage	= No	No	No	No
Slope (%)	= 0.01	0.01	0.00	n/a					
N-Value	= .013	.013	.013	n/a					
Orifice Coeff.	= 0.60	0.60	0.60	0.60	Exfil.(in/hr)	= 0.000 (by	y Wet area)		
Multi-Stage	= n/a	No	No	No	TW Elev. (ft)	= 0.00			

Note: Culvert/Orifice outflows are analyzed under inlet (ic) and outlet (oc) control. Weir risers checked for orifice conditions (ic) and submergence (s).



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Weir Structures

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No. 8

Proposed B Chambers

Hydrograph type	= Reservoir	Peak discharge	= 0.176 cfs
Storm frequency	= 2 yrs	Time to peak	= 8.87 hrs
Time interval	= 2 min	Hyd. volume	= 6,786 cuft
Inflow hyd. No.	= 5 - Proposed B	Max. Elevation	= 101.86 ft
Reservoir name	= Storage B	Max. Storage	= 1,001 cuft

Storage Indication method used.



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Pond Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Pond No. 5 - Storage B

Pond Data

UG Chambers -Invert elev. = 100.00 ft, Rise x Span = 3.50 x 3.50 ft, Barrel Len = 64.00 ft, No. Barrels = 3, Slope = 0.00%, Headers = No

Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (cuft)	Total storage (cuft)
0.00	100.00	n/a	0	0
0.35	100.35	n/a	96	96
0.70	100.70	n/a	167	263
1.05	101.05	n/a	203	466
1.40	101.40	n/a	224	690
1.75	101.75	n/a	234	924
2.10	102.10	n/a	234	1,158
2.45	102.45	n/a	224	1,382
2.80	102.80	n/a	203	1,585
3.15	103.15	n/a	167	1,752
3.50	103.50	n/a	96	1,848

Culvert / Orifice Structures

	[A]	[B]	[C]	[PrfRsr]		[A]	[B]	[C]	[D]
Rise (in)	= 2.50	2.50	0.00	0.00	Crest Len (ft)	Inactive	Inactive	Inactive	Inactive
Span (in)	= 2.50	100.00	0.00	0.00	Crest El. (ft)	= 0.00	0.00	0.00	0.00
No. Barrels	= 1	1	0	0	Weir Coeff.	= 3.33	3.33	3.33	3.33
Invert El. (ft)	= 100.00	103.25	0.00	0.00	Weir Type	=			
Length (ft)	= 10.00	10.00	0.00	0.00	Multi-Stage	= No	No	No	No
Slope (%)	= 0.01	0.01	0.00	n/a					
N-Value	= .013	.013	.013	n/a					
Orifice Coeff.	= 0.60	0.60	0.60	0.60	Exfil.(in/hr)	= 0.000 (by	y Wet area)		
Multi-Stage	= n/a	No	No	No	TW Elev. (ft)	= 0.00			

Note: Culvert/Orifice outflows are analyzed under inlet (ic) and outlet (oc) control. Weir risers checked for orifice conditions (ic) and submergence (s).



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Weir Structures

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No. 9

Existing A2

Hydrograph type	= SBUH Runoff	Peak discharge	= 0.270 cfs
Storm frequency	= 2 yrs	Time to peak	= 7.90 hrs
Time interval	= 2 min	Hyd. volume	= 3,794 cuft
Drainage area	= 0.507 ac	Curve number	= 96
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 2.50 in	Distribution	= Type IA
Storm duration	= 24 hrs	Shape factor	= n/a



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Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No. 10

Existing B2

Hydrograph type	= SBUH Runoff	Peak discharge	= 0.185 cfs
Storm frequency	= 2 yrs	Time to peak	= 7.93 hrs
Time interval	= 2 min	Hyd. volume	= 2,622 cuft
Drainage area	= 0.406 ac	Curve number	= 93
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 2.50 in	Distribution	= Type IA
Storm duration	= 24 hrs	Shape factor	= n/a



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Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No. 11

Existing A/C Laurel

Hydrograph type = Storm frequency =	Combine 2 vrs	Peak discharge Time to peak	= 0.473 cfs = 7.90 hrs
Time interval =	2 min	Hyd. volume	= 6,713 cuft
Inflow hyds. =	1, 3, 9	Contrib. drain. area	= 0.979 ac



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Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No. 12

Existing B Hillsdale HWY

Hydrograph type Storm frequency	= Combine = 2 vrs	Peak discharge Time to peak	= 0.544 cfs = 7 93 hrs
Time interval	= 2 min	Hyd. volume	= 7,693 cuft
Inflow hyds.	= 2, 10	Contrib. drain. area	= 1.191 ac



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Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No. 13

Proposed D1

Hydrograph type	= SBUH Runoff	Peak discharge	= 0.015 cfs
Storm frequency	= 2 yrs	Time to peak	= 7.93 hrs
Time interval	= 2 min	Hyd. volume	= 215 cuft
Drainage area	= 0.035 ac	Curve number	= 92
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 2.50 in	Distribution	= Type IA
Storm duration	= 24 hrs	Shape factor	= n/a



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Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No. 14

Proposed D2

Hydrograph type	= SBUH Runoff	Peak discharge	= 0.002 cfs
Storm frequency	= 2 yrs	Time to peak	= 8.00 hrs
Time interval	= 2 min	Hyd. volume	= 34 cuft
Drainage area	= 0.012 ac	Curve number	= 78
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 2.50 in	Distribution	= Type IA
Storm duration	= 24 hrs	Shape factor	= n/a



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Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No. 15

Proposed D3

Hydrograph type	= SBUH Runoff	Peak discharge	= 0.001 cfs
Storm frequency	= 2 yrs	Time to peak	= 8.00 hrs
Time interval	= 2 min	Hyd. volume	= 21 cuft
Drainage area	= 0.008 ac	Curve number	= 77
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 2.50 in	Distribution	= Type IA
Storm duration	= 24 hrs	Shape factor	= n/a



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Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No. 16

Proposed E1

Hydrograph type	= SBUH Runoff	Peak discharge	= 0.007 cfs
Storm frequency	= 2 yrs	Time to peak	= 7.93 hrs
Time interval	= 2 min	Hyd. volume	= 99 cuft
Drainage area	= 0.017 ac	Curve number	= 91
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 2.50 in	Distribution	= Type IA
Storm duration	= 24 hrs	Shape factor	= n/a



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Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No. 17

Proposed E2

Hydrograph type	= SBUH Runoff	Peak discharge	= 0.013 cfs
Storm frequency	= 2 yrs	Time to peak	= 8.00 hrs
Time interval	= 2 min	Hyd. volume	= 219 cuft
Drainage area	= 0.054 ac	Curve number	= 84
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 2.50 in	Distribution	= Type IA
Storm duration	= 24 hrs	Shape factor	= n/a



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Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No. 18

Proposed B/E Hillsdale

Hydrograph type Storm frequency	= Combine = 2 vrs	Peak discharge Time to peak	= 0.207 cfs = 8.77 hrs
Time interval	= 2 min	Hyd. volume	= 8,274 cuft
Inflow hyds.	= 8, 16, 17	Contrib. drain. area	= 0.071 ac



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Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No. 19

Proposed A/C/D Laurel

Hydrograph type	 Combine 2 yrs 2 min 	Peak discharge	= 0.119 cfs
Storm frequency		Time to peak	= 8.93 hrs
Time interval		Hyd. volume	= 5,520 cuft
Inflow hyds.	= 6, 7, 13, 14, 15	Contrib. drain. area	= 0.076 ac



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Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volum e (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SBUH Runoff	0.260	2	474	3,642				Existing A1
2	SBUH Runoff	0.476	2	476	6,696				Existing B1
3	SBUH Runoff	0.011	2	480	219				Existing C
4	SBUH Runoff	0.532	2	476	7,500				Proposed A
5	SBUH Runoff	0.642	2	476	9,064				Proposed B
6	SBUH Runoff	0.004	2	480	74				Proposed C
7	Reservoir	0.214	2	520	7,485	4	103.36	1,441	Proposed A Chambers
8	Reservoir	0.216	2	540	9,047	5	102.71	1,530	Proposed B Chambers
9	SBUH Runoff	0.346	2	474	4,878				Existing A2
10	SBUH Runoff	0.246	2	476	3,463				Existing B2
11	Combine	0.616	2	474	8,739	1, 3, 9,			Existing A/C Laurel
12	Combine	0.723	2	476	10,159	2, 10,			Existing B Hillsdale HWY
13	SBUH Runoff	0.020	2	476	287				Proposed D1
14	SBUH Runoff	0.003	2	480	52				Proposed D2
15	SBUH Runoff	0.002	2	480	33				Proposed D3
16	SBUH Runoff	0.009	2	476	134				Proposed E1
17	SBUH Runoff	0.020	2	478	313				Proposed E2
18	Combine	0.326	2	506	10,866	8, 16, 17			Proposed B/E Hillsdale
19	Combine	0.150	2	556	7,382	6, 7, 13, 14, 15,			Proposed A/C/D Laurel

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No. 1

Existing A1

Hydrograph type	= SBUH Runoff	Peak discharge	= 0.260 cfs
Storm frequency	= 5 yrs	Time to peak	= 7.90 hrs
Time interval	= 2 min	Hyd. volume	= 3,642 cuft
Drainage area	= 0.410 ac	Curve number	= 94
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 3.10 in	Distribution	= Type IA
Storm duration	= 24 hrs	Shape factor	= n/a



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Hyd. No. 2

Existing B1

Hydrograph type	= SBUH Runoff	Peak discharge	= 0.476 cfs
Storm frequency	= 5 yrs	Time to peak	= 7.93 hrs
Time interval	= 2 min	Hyd. volume	= 6,696 cuft
Drainage area	= 0.785 ac	Curve number	= 93
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 3.10 in	Distribution	= Type IA
Storm duration	= 24 hrs	Shape factor	= n/a



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Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No. 3

Existing C

Hydrograph type	= SBUH Runoff	Peak discharge	= 0.011 cfs
Storm frequency	= 5 yrs	Time to peak	= 8.00 hrs
Time interval	= 2 min	Hyd. volume	= 219 cuft
Drainage area	= 0.062 ac	Curve number	= 74
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 3.10 in	Distribution	= Type IA
Storm duration	= 24 hrs	Shape factor	= n/a



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Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No. 4

Proposed A

Hydrograph type	= SBUH Runoff	Peak discharge	= 0.532 cfs
Storm frequency	= 5 yrs	Time to peak	= 7.93 hrs
Time interval	= 2 min	Hyd. volume	= 7,500 cuft
Drainage area	= 0.916 ac	Curve number	= 92
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 3.10 in	Distribution	= Type IA
Storm duration	= 24 hrs	Shape factor	= n/a



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Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No. 5

Proposed B

Hydrograph type	= SBUH Runoff	Peak discharge	= 0.642 cfs
Storm frequency	= 5 yrs	Time to peak	= 7.93 hrs
Time interval	= 2 min	Hyd. volume	= 9,064 cuft
Drainage area	= 1.107 ac	Curve number	= 92
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 3.10 in	Distribution	= Type IA
Storm duration	= 24 hrs	Shape factor	= n/a



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Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No. 6

Proposed C

Hydrograph type	= SBUH Runoff	Peak discharge	= 0.004 cfs
Storm frequency	= 5 yrs	Time to peak	= 8.00 hrs
Time interval	= 2 min	Hyd. volume	= 74 cuft
Drainage area	= 0.021 ac	Curve number	= 74
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 3.10 in	Distribution	= Type IA
Storm duration	= 24 hrs	Shape factor	= n/a



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Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No. 7

Proposed A Chambers

Hydrograph type	= Reservoir	Peak discharge	= 0.214 cfs
Storm frequency	= 5 yrs	Time to peak	= 8.67 hrs
Time interval	= 2 min	Hyd. volume	= 7,485 cuft
Inflow hyd. No.	= 4 - Proposed A	Max. Elevation	= 103.36 ft
Reservoir name	= Storage A	Max. Storage	= 1,441 cuft

Storage Indication method used.



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Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No. 8

Proposed B Chambers

Hydrograph type	= Reservoir	Peak discharge	= 0.216 cfs
Storm frequency	= 5 yrs	Time to peak	= 9.00 hrs
Time interval	= 2 min	Hyd. volume	= 9,047 cuft
Inflow hyd. No.	= 5 - Proposed B	Max. Elevation	= 102.71 ft
Reservoir name	= Storage B	Max. Storage	= 1,530 cuft

Storage Indication method used.



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Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No. 9

Existing A2

Hydrograph type	= SBUH Runoff	Peak discharge	= 0.346 cfs
Storm frequency	= 5 yrs	Time to peak	= 7.90 hrs
Time interval	= 2 min	Hyd. volume	= 4,878 cuft
Drainage area	= 0.507 ac	Curve number	= 96
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 3.10 in	Distribution	= Type IA
Storm duration	= 24 hrs	Shape factor	= n/a



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Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No. 10

Existing B2

Hydrograph type	= SBUH Runoff	Peak discharge	= 0.246 cfs
Storm frequency	= 5 yrs	Time to peak	= 7.93 hrs
Time interval	= 2 min	Hyd. volume	= 3,463 cuft
Drainage area	= 0.406 ac	Curve number	= 93
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 3.10 in	Distribution	= Type IA
Storm duration	= 24 hrs	Shape factor	= n/a



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Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No. 11

Existing A/C Laurel

Hydrograph type	 = Combine = 5 yrs = 2 min = 1, 3, 9 	Peak discharge	= 0.616 cfs
Storm frequency		Time to peak	= 7.90 hrs
Time interval		Hyd. volume	= 8,739 cuft
Inflow hyds.		Contrib. drain. area	= 0.979 ac
Innow Hyus.	- 1, 3, 9	Contrib. Urain. area	- 0.979 ac



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Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No. 12

Existing B Hillsdale HWY

Hydrograph type	= Combine	Peak discharge	 = 0.723 cfs = 7.93 hrs = 10,159 cuft = 1.191 ac
Storm frequency	= 5 yrs	Time to peak	
Time interval	= 2 min	Hyd. volume	
Inflow hyds.	= 2, 10	Contrib. drain. area	
innow nyus.	- 2, 10	Contrib. drain. area	- 1.191 ac



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Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No. 13

Proposed D1

Hydrograph type	= SBUH Runoff	Peak discharge	= 0.020 cfs
Storm frequency	= 5 yrs	Time to peak	= 7.93 hrs
Time interval	= 2 min	Hyd. volume	= 287 cuft
Drainage area	= 0.035 ac	Curve number	= 92
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 3.10 in	Distribution	= Type IA
Storm duration	= 24 hrs	Shape factor	= n/a



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Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No. 14

Proposed D2

Hydrograph type	= SBUH Runoff	Peak discharge	= 0.003 cfs
Storm frequency	= 5 yrs	Time to peak	= 8.00 hrs
Time interval	= 2 min	Hyd. volume	= 52 cuft
Drainage area	= 0.012 ac	Curve number	= 78
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 3.10 in	Distribution	= Type IA
Storm duration	= 24 hrs	Shape factor	= n/a



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Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No. 15

Proposed D3

Hydrograph type	= SBUH Runoff	Peak discharge	= 0.002 cfs
Storm frequency	= 5 yrs	Time to peak	= 8.00 hrs
Time interval	= 2 min	Hyd. volume	= 33 cuft
Drainage area	= 0.008 ac	Curve number	= 77
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 3.10 in	Distribution	= Type IA
Storm duration	= 24 hrs	Shape factor	= n/a



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Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No. 16

Proposed E1

Hydrograph type	= SBUH Runoff	Peak discharge	= 0.009 cfs
Storm frequency	= 5 yrs	Time to peak	= 7.93 hrs
Time interval	= 2 min	Hyd. volume	= 134 cuft
Drainage area	= 0.017 ac	Curve number	= 91
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 3.10 in	Distribution	= Type IA
Storm duration	= 24 hrs	Shape factor	= n/a



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Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No. 17

Proposed E2

Hydrograph type	= SBUH Runoff	Peak discharge	= 0.020 cfs
Storm frequency	= 5 yrs	Time to peak	= 7.97 hrs
Time interval	= 2 min	Hyd. volume	= 313 cuft
Drainage area	= 0.054 ac	Curve number	= 84
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 3.10 in	Distribution	= Type IA
Storm duration	= 24 hrs	Shape factor	= n/a



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Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No. 18

Proposed B/E Hillsdale



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Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No. 19

Proposed A/C/D Laurel

Hydrograph type	= Combine	Peak discharge	= 0.150 cfs
Storm frequency	= 5 vrs	Time to peak	= 9.27 hrs
Time interval	= 2 min	Hyd. volume	= 7,382 cuft
Inflow hyds.	= 6, 7, 13, 14, 15	Contrib. drain. area	= 0.076 ac



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Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volum e (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SBUH Runoff	0.296	2	474	4,148				Existing A1
2	SBUH Runoff	0.546	2	474	7,656				Existing B1
3	SBUH Runoff	0.015	2	480	271				Existing C
4	SBUH Runoff	0.612	2	476	8,608				Proposed A
5	SBUH Runoff	0.740	2	476	10,403				Proposed B
6	SBUH Runoff	0.005	2	480	92				Proposed C
7	Reservoir	0.460	2	488	8,592	4	103.46	1,463	Proposed A Chambers
8	Reservoir	0.296	2	520	10,386	5	103.30	1,793	Proposed B Chambers
9	SBUH Runoff	0.390	2	474	5,514				Existing A2
10	SBUH Runoff	0.282	2	474	3,959				Existing B2
11	Combine	0.700	2	474	9,933	1, 3, 9,			Existing A/C Laurel
12	Combine	0.828	2	474	11,615	2, 10,			Existing B Hillsdale HWY
13	SBUH Runoff	0.023	2	476	329				Proposed D1
14	SBUH Runoff	0.004	2	480	64				Proposed D2
15	SBUH Runoff	0.002	2	480	40				Proposed D3
16	SBUH Runoff	0.011	2	476	154				Proposed E1
17	SBUH Runoff	0.025	2	478	371				Proposed E2
18	Combine	0.755	2	486	12,394	8, 16, 17			Proposed B/E Hillsdale
19	Combine	0.327	2	498	8,488	6, 7, 13, 14, 15,			Proposed A/C/D Laurel

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No. 1

Existing A1

Hydrograph type	= SBUH Runoff	Peak discharge	= 0.296 cfs
Storm frequency	= 10 yrs	Time to peak	= 7.90 hrs
Time interval	= 2 min	Hyd. volume	= 4,148 cuft
Drainage area	= 0.410 ac	Curve number	= 94
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 3.45 in	Distribution	= Type IA
Storm duration	= 24 hrs	Shape factor	= n/a



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Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No. 2

Existing B1

Hydrograph type	= SBUH Runoff	Peak discharge	= 0.546 cfs
Storm frequency	= 10 yrs	Time to peak	= 7.90 hrs
Time interval	= 2 min	Hyd. volume	= 7,656 cuft
Drainage area	= 0.785 ac	Curve number	= 93
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 3.45 in	Distribution	= Type IA
Storm duration	= 24 hrs	Shape factor	= n/a



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Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No. 3

Existing C

Hydrograph type	= SBUH Runoff	Peak discharge	= 0.015 cfs
Storm frequency	= 10 yrs	Time to peak	= 8.00 hrs
Time interval	= 2 min	Hyd. volume	= 271 cuft
Drainage area	= 0.062 ac	Curve number	= 74
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 3.45 in	Distribution	= Type IA
Storm duration	= 24 hrs	Shape factor	= n/a



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Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No. 4

Proposed A

Hydrograph type	= SBUH Runoff	Peak discharge	= 0.612 cfs
Storm frequency	= 10 yrs	Time to peak	= 7.93 hrs
Time interval	= 2 min	Hyd. volume	= 8,608 cuft
Drainage area	= 0.916 ac	Curve number	= 92
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 3.45 in	Distribution	= Type IA
Storm duration	= 24 hrs	Shape factor	= n/a



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Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No. 5

Proposed B

Hydrograph type	= SBUH Runoff	Peak discharge	= 0.740 cfs
Storm frequency	= 10 yrs	Time to peak	= 7.93 hrs
Time interval	= 2 min	Hyd. volume	= 10,403 cuft
Drainage area	= 1.107 ac	Curve number	= 92
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 3.45 in	Distribution	= Type IA
Storm duration	= 24 hrs	Shape factor	= n/a



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Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No. 6

Proposed C

Hydrograph type	= SBUH Runoff	Peak discharge	= 0.005 cfs
Storm frequency	= 10 yrs	Time to peak	= 8.00 hrs
Time interval	= 2 min	Hyd. volume	= 92 cuft
Drainage area	= 0.021 ac	Curve number	= 74
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 3.45 in	Distribution	= Type IA
Storm duration	= 24 hrs	Shape factor	= n/a



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Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No. 7

Proposed A Chambers

Hydrograph type	= Reservoir	Peak discharge	= 0.460 cfs
Storm frequency	= 10 yrs	Time to peak	= 8.13 hrs
Time interval	= 2 min	Hyd. volume	= 8,592 cuft
Inflow hyd. No.	= 4 - Proposed A	Max. Elevation	= 103.46 ft
Reservoir name	= Storage A	Max. Storage	= 1,463 cuft

Storage Indication method used.



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Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No. 8

Proposed B Chambers

Hydrograph type :	= Reservoir	Peak discharge	= 0.296 cfs
Storm frequency :	= 10 yrs	Time to peak	= 8.67 hrs
Time interval	= 2 min	Hyd. volume	= 10,386 cuft
Inflow hyd. No.	= 5 - Proposed B	Max. Elevation	= 103.30 ft
Reservoir name	= Storage B	Max. Storage	= 1,793 cuft

Storage Indication method used.



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Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No. 9

Existing A2

Hydrograph type	= SBUH Runoff	Peak discharge	= 0.390 cfs
Storm frequency	= 10 yrs	Time to peak	= 7.90 hrs
Time interval	= 2 min	Hyd. volume	= 5,514 cuft
Drainage area	= 0.507 ac	Curve number	= 96
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 3.45 in	Distribution	= Type IA
Storm duration	= 24 hrs	Shape factor	= n/a



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Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No. 10

Existing B2

Hydrograph type	= SBUH Runoff	Peak discharge	= 0.282 cfs
Storm frequency	= 10 yrs	Time to peak	= 7.90 hrs
Time interval	= 2 min	Hyd. volume	= 3,959 cuft
Drainage area	= 0.406 ac	Curve number	= 93
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 3.45 in	Distribution	= Type IA
Storm duration	= 24 hrs	Shape factor	= n/a



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Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No. 11

Existing A/C Laurel

Hydrograph type Storm frequency	= Combine = 10 yrs	Peak discharge Time to peak	= 0.700 cfs = 7.90 hrs
Time interval	= 2 min	Hyd. volume	= 9,933 cuft
Inflow hyds.	= 1, 3, 9	Contrib. drain. area	= 0.979 ac



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Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No. 12

Existing B Hillsdale HWY

Storm frequency= 10 yrsTime to peak= 7.90 hrsTime interval= 2 minHyd. volume= 11,615 cuftInflow hyds.= 2, 10Contrib. drain. area= 1.191 ac	Hydrograph type	= Combine	Peak discharge	= 0.828 cfs
	Storm frequency	= 10 yrs	Time to peak	= 7.90 hrs
	Time interval	= 2 min	Hyd. volume	= 11,615 cuft
	Inflow hyds.	= 2, 10	Contrib. drain. area	= 1.191 ac



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Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No. 13

Proposed D1

Hydrograph type	= SBUH Runoff	Peak discharge	= 0.023 cfs
Storm frequency	= 10 yrs	Time to peak	= 7.93 hrs
Time interval	= 2 min	Hyd. volume	= 329 cuft
Drainage area	= 0.035 ac	Curve number	= 92
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 3.45 in	Distribution	= Type IA
Storm duration	= 24 hrs	Shape factor	= n/a



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Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No. 14

Proposed D2

Hydrograph type	= SBUH Runoff	Peak discharge	= 0.004 cfs
Storm frequency	= 10 yrs	Time to peak	= 8.00 hrs
Time interval	= 2 min	Hyd. volume	= 64 cuft
Drainage area	= 0.012 ac	Curve number	= 78
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 3.45 in	Distribution	= Type IA
Storm duration	= 24 hrs	Shape factor	= n/a



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Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No. 15

Proposed D3

Hydrograph type	= SBUH Runoff	Peak discharge	= 0.002 cfs
Storm frequency	= 10 yrs	Time to peak	= 8.00 hrs
Time interval	= 2 min	Hyd. volume	= 40 cuft
Drainage area	= 0.008 ac	Curve number	= 77
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 3.45 in	Distribution	= Type IA
Storm duration	= 24 hrs	Shape factor	= n/a



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Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No. 16

Proposed E1

Hydrograph type	= SBUH Runoff	Peak discharge	= 0.011 cfs
Storm frequency	= 10 yrs	Time to peak	= 7.93 hrs
Time interval	= 2 min	Hyd. volume	= 154 cuft
Drainage area	= 0.017 ac	Curve number	= 91
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 3.45 in	Distribution	= Type IA
Storm duration	= 24 hrs	Shape factor	= n/a



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Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No. 17

Proposed E2

Hydrograph type	= SBUH Runoff	Peak discharge	= 0.025 cfs
Storm frequency	= 10 yrs	Time to peak	= 7.97 hrs
Time interval	= 2 min	Hyd. volume	= 371 cuft
Drainage area	= 0.054 ac	Curve number	= 84
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 3.45 in	Distribution	= Type IA
Storm duration	= 24 hrs	Shape factor	= n/a



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Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No. 18

Proposed B/E Hillsdale

Hydrograph type	= Combine	Peak discharge	= 0.755 cfs
Storm frequency	= 10 yrs	Time to peak	= 8.10 hrs
Time interval	= 2 min	Hyd. volume	= 12,394 cuft
Inflow hyds.	= 8, 16, 17	Contrib. drain. area	= 0.071 ac
innow nyus.	- 0, 10, 17	Contrib. drain. area	- 0.07 Tac



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Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2021

Hyd. No. 19

Proposed A/C/D Laurel

Hydrograph type	= Combine	Peak discharge	= 0.327 cfs
Storm frequency	= 10 yrs	Time to peak	= 8.30 hrs
Time interval	= 2 min	Hyd. volume	= 8,488 cuft
Inflow hyds.	= 6, 7, 13, 14, 15	Contrib. drain. area	= 0.076 ac



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Attachment B

Exhibit O Page 76 of 118 GEOTECHNICAL ENGINEERING INVESTIGATION PROPOSED IN-N-OUT BURGER 10565 SW BEAVERTON HILLSDALE HIGHWAY BEAVERTON, OREGON

> **PROJECT NO. 062-20012** JULY 22, 2020

> > **Prepared for:**

IN-N-OUT BURGER, A CALIFORNIA CORPORATION ATTN: MS. CASSIE YEE 13502 HAMBURGER LANE BALDWIN PARK, CA 91706

Prepared by:

KRAZAN & ASSOCIATES, INC. GEOTECHNICAL ENGINEERING DIVISION 825 CENTER STREET, STE A TACOMA, WASHINGTON 98409 (253) 939-2500

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GEOTECHNICAL ENGINEERING • ENVIRONMENTAL ENGINEERING CONSTRUCTION MATERIALS TESTING & INSPECTION

July 22, 2020

KA Project No. 062-20012

In-N-Out Burger, a California Corporation 13502 Hamburger Lane Baldwin Park, CA 91706

Attn: Ms. Cassie Yee

Email: <u>CYee@innout.com</u> (626) 813-8226

Reference: Geotechnical Engineering Investigation Proposed In-N-Out Burger 10565 BEAVERTON HILLSDALE HIGHWAY Beaverton, Oregon

Dear Ms. Yee,

In accordance with your request, we have completed a Geotechnical Engineering Investigation for the referenced site. The results of our investigation are presented in the attached report.

If you have any questions, or if we can be of further assistance, please do not hesitate to contact our office.

Respectfully submitted, KRAZAN & ASSOCIATES, INC.

Shewsa R. Mumm

Theresa R. Nunan Project Manager



GEOTECHNICAL ENGINEERING • ENVIRONMENTAL ENGINEERING CONSTRUCTION TESTING & INSPECTION

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GEOTECHNICAL ENGINEERING • ENVIRONMENTAL ENGINEERING CONSTRUCTION TESTING & INSPECTION

July 22, 2020

KA Project No. 062-20012

GEOTECHNICAL ENGINEERING INVESTIGATION PROPOSED IN-N-OUT BURGER 10565 SW BEAVERTON HILLSDALE HIGHWAY BEAVERTON, OREGON

INTRODUCTION

This report presents the results of our Geotechnical Engineering Investigation for the proposed In-N-Out Burger project located at 10565 SW Beaverton Hillsdale Highway in Beaverton, Washington County, Oregon, as shown on the Vicinity Map in Figure 1. Discussions regarding site conditions are presented in this report, together with conclusions and recommendations pertaining to site preparation, excavation, foundations, structural fill, utility trench backfill, concrete slabs and exterior flatwork, drainage, erosion control, and pavements.

A site plan showing the approximate locations of the exploratory soil borings is presented following the text of this report in Figure 2. A description of the field investigation and laboratory testing, as well as the exploratory soil boring logs, is presented in Appendix A. Appendix B contains a guide to aid in the development of earthwork specifications. Pavement design guidelines are presented in Appendix C. The recommendations in the main text of the report have precedence over the more general specifications in the appendices.

PURPOSE AND SCOPE

This investigation was conducted to evaluate the subsurface soil and groundwater conditions at the site, develop geotechnical engineering recommendations for use in design of specific construction elements, and provide criteria for site preparation and earthwork construction.

Our scope of services was performed in general accordance with our proposal number G20023WAT for this project, dated May 8, 2020, and included the following:

- Exploration of the subsurface soil and groundwater conditions by conducting six (6) soil test borings to depths of up to 15 feet using a Krazan drill rig and operator under the direction of a Krazan geotechnical engineer;
- Exploration of the subsurface soil and groundwater conditions by conducting one (1) Cone Penetration Test (CPT) using a subcontracted CPT rig and operator under the direction of a Krazan geotechnical engineer;
- A site plan showing the soil boring, CPT, and percolation test locations;
- Comprehensive boring and CPT logs, including soil stratification and classification, and groundwater levels where applicable;

- Recommendations for seismic design considerations including site coefficient and ground acceleration based on the 2018 IBC and 2019 Oregon Structural Specialty Code (OSSC);
- Liquefaction analysis based on the data acquired from the CPT and laboratory testing;
- Recommended foundation type(s) for the proposed structure;
- Recommendations for foundation design, including allowable soil bearing pressure, anticipated settlements (both total and differential), coefficient of horizontal friction, and frost penetration depth;
- Recommendations for modulus of subgrade reaction for design of slabs-on-grade, as well as subgrade preparation, slab drainage, capillary break, and/or moisture barriers;
- Recommendations for lateral earth pressures for below grade and retaining structures, including surcharge loadings;
- Preliminary evaluation of onsite infiltration feasibility based on one infiltration test performed in one of the soil borings conducted within the existing parking lot area using the encased falling head method;
- Recommendations for structural fill materials, placement, and compaction;
- Recommendations regarding the suitability of onsite soils as structural fill;
- Recommendations for temporary excavations;
- Recommendations for site drainage and erosion control; and
- Recommendations for asphalt and Portland Cement Concrete (PCC) pavements.

Environmental services, such as chemical analysis of soil and groundwater for possible environmental contaminants, were not included in our geotechnical engineering scope of services for this project.

PROPOSED CONSTRUCTION

Based on the Request for Proposal (RFP), prepared by In-N-Out Burger, dated April 30, 2020, we understand the proposed In-N-Out building will be a 1-story, wood-framed structure covering a footprint of about 3,879 square feet (sf) with a concrete slab-on-grade floor. Other site developments will include a 400-sf trash enclosure, asphalt paved parking and access drives, Portland Cement Concrete (PCC) pavement drive-thru lane, installation of site utilities, and landscaped areas. We understand that an optional 0.25-acre parcel adjoining the northeast corner of the site located at 10540 SW Laurel Street is being considered for inclusion in the proposed development.

Although no loading information was provided at the time of this report, we have assumed column and wall loads for the proposed structure will not exceed 60 kips and 3 kips per lineal foot, respectively for our soils bearing capacity and settlement analyses. We have also assumed that final grades for the site development will be at or near the existing grades.

SITE LOCATION AND DESCRIPTION

The project site is bordered by SW Laurel Street to the north, SW Beaverton Hillsdale Highway to the south, a restaurant to the east, and a commercial business and SW 107th Avenue to the west. The 1.24-acre site, encompassing assessor parcel numbers (APNs) 1S114BC02000, 1S114BC02100, and 1S114BC02400, is currently occupied by an operational, single-story, restaurant building.

A site specific topographic map was not available at the time of this report; however, the site appears to be relatively level with ground surface elevations estimated to vary by not more than one foot. The courtyard area on the south side of the existing building is enclosed by a low wall, with brick pavers covering the ground surface. A relatively small section of lawn exists north of the existing restaurant, between the east parking area and the drive-thru lane. Ground cover over the remaining area consists of asphalt pavement, with mature trees, shrubs, and landscaping around the perimeter of the site. The existing asphalt pavement is generally in a poor condition, and exhibits alligator-type cracks, depressions, and potouts, with several areas having been overlaid or patched. Roots from mature trees have extended into the existing pavement area causing heave and cracking of the existing pavement. Photos of the existing pavement are included in Figure 3 attached to this report. Several existing utilities are located within the site. The pavement overlying several of the utility lines is cracked along the pipe route and/or depressed.

An optional 0.25-acre parcel of land (APN 1S114BC02200) located adjacent to the northeast corner of the primary site is also being considered for the proposed development. This parcel fronts SW Laurel Street and is occupied by two single-story residential structures and a corrugated metal garage-type structure. The ground surface is grass covered with two gravel-surfaced entry driveways. This property is about level with the elevation of SW Laurel Street with about a 1.5-foot drainage ditch running along the south side of the road and another drainage ditch between this parcel and the adjacent property to the west. Trees and shrubbery line the south, east, and west sides of this property.

GEOLOGIC SETTING

The Oregon Department of Geology and Mineral Industries (DOGAMI) digital geologic map of Oregon (Madin 2004) classifies the subsurface soils as Quaternary Surficial Deposits, derived from the Missoula Flood deposits, which are comprised of "unconsolidated sediments that include alluvium, colluvium, river and coastal terrace, landslide, glacial, eolian, and outburst flood deposits."

FIELD INVESTIGATION

Six (6) exploratory borings were completed to evaluate the subsurface soil and groundwater conditions at the project site. The soil test borings were conducted on May 21 and 22, 2020, using a Krazan drill rig and operator under the direction of a Krazan geotechnical engineer. The soil borings, designated B-1 through B-6, were advanced to depths of about 10 to 15 below the existing ground surface (bgs) using a CME-45 drill rig equipped with 3.75-inch outer diameter solid stem augers. A field engineer from Krazan

and Associates was present during the explorations, continuously examined and visually classified the soils in general accordance with the Unified Soil Classification System (USCS), and maintained logs of the explorations. Logs of the soil test borings are included in Appendix A.

Representative samples of the soils encountered in the geotechnical explorations were collected and transported to our laboratory for further examination and testing. A detailed description of the field investigation is presented in Appendix A.

Additionally, one (1) seismic Cone Penetrometer Test (sCPT) was advanced to a depth of 50 feet bgs just outside the southeastern corner of the proposed building on May 23, 2020. The CPT method consists of pushing an instrumented cone into the ground at a controlled rate and recording measured soil parameters, such as tip resistance, friction ratio, and pore pressure. Shear wave testing was also conducted roughly every 3 feet for the full depth of the CPT. These parameters are used to determine the geotechnical engineering properties of soils and delineate soil stratigraphy, particularly for use with seismic analyses. The results of the CPT are included in Appendix A. The approximate location of the CPT and borings are shown on the Site Plan in Figure 2.

One falling head percolation test was performed within the proposed parking area at boring location B-5 at a depth of 1.5 feet bgs to provide a preliminary evaluation of the soils infiltration characteristics. The test was conducted in general accordance with Washington County's On-Site Stormwater Design System (OSDS) Design and Construction Minimum Guidelines and Requirements (September 26, 2007, 2nd Edition) using the falling head test method, which is a modification of the EPA Falling Head Percolation Test Procedure presented in the Onsite Wastewater Treatment and Disposal Systems Design Manual (EPA, 1980). After filling the test hole twice with 12 inches of water, the water did not seep away in less than 10 minutes. Therefore, the soils were soaked for about three hours prior to conducting the falling head percolation test. The borehole percolation test was conducted with 6 inches of water head in the bottom of the test hole.

SOIL PROFILE AND SUBSURFACE CONDITIONS

Our field exploration exposed asphalt concrete pavement, topsoil, and undocumented fill overlying alluvial soils to the explored depths of the borings. Detailed logs of the borings and CPT are presented in Appendix A.

Topsoil/Asphalt Pavement/Base Course: Borings B-2 and B-6 encountered 7 and 6 inches of grass and silty sand topsoil, respectively. The remaining borings encountered 4 inches of asphalt concrete pavement underlain by 5 inches of base course material consisting of brown silty sand with gravel, with the exception of boring B-5 which silty sand with crushed rock base material beneath 3-inches of asphalt pavement. The recorded asphalt pavement thicknesses include the thickness of overlays.

Undocumented Fill: Boring B-1 encountered a 2.3-foot thick layer of loose, undocumented fill consisting of dark brown silty sand in a loose condition beneath the base course material.

Native Silty Clay and Silty Sand: Boring B-5 encountered a 1.5-foot thick layer of dark grey silty clay (CL) beneath the base course material. The clay exhibited a medium stiff consistency with a Standard Penetration Test (SPT) resistance (N-value) of 5 blows per foot. Boring B-6, conducted at the optional parcel, encountered 2.5 feet of dark brown to brown silty sand beneath the topsoil layer. The sand exhibited a loose relative density with a corresponding N-value of 5 blows per foot.

Native Sandy Silt: Brown sandy silt (ML) was encountered below the aforementioned pavement and soil layers at a depth of 0.6 to 3 feet below the existing ground surface (bgs) and extended to the explored depth of the borings. The silt exhibited medium stiff to very stiff consistencies with N-values ranging from 5 to 12 blows per foot. The sandy silt stratum contained frequent to occasional lenses and seams of fine sand. Laboratory tests indicated the sandy silt contained 75 to 94 percent fines retained on the U.S. Standard No. 200 sieve, with natural moisture contents ranging from 29.6 to 34.7 percent.

The Cone Penetrometer Test (CPT) results were in general agreement with the soil conditions encountered in the soil borings.

GROUNDWATER

Groundwater was not encountered in boring B-6 drilled within the optional parcel. Groundwater was encountered at depths of 8.8 to 9.7 feet bgs during drilling in the remaining borings drilled for this field exploration, and at a depth of 13.4 feet bgs in boring B-2 twenty-four hours after drilling. A porewater dissipation test conducted with the CPT indicated a groundwater level at 10.6 feet below the existing ground surface.

It should be recognized that the absence or presence of groundwater and its elevation may fluctuate with time. The groundwater level will also be dependent upon seasonal precipitation, irrigation, land use, and climatic conditions, as well as other factors. Therefore, water levels at the time of the field investigation may be different from those encountered during the construction phase of the project. The evaluation of such factors is beyond the scope of this report.

LABORATORY TEST RESULTS

Wash No. 200 for percent fines (silt and/or clay) and moisture content tests were conducted on select soil samples from the borings. The laboratory test results are included under the Lab Results/Notes section of the boring logs in Appendix A.

GEOLOGIC HAZARDS

Erosion Concern/Hazard

The Natural Resources Conservation Services (NRCS) map for Washington County Area, Oregon, classifies the soil in the site area as Woodburn silt loam, 0 to 3 percent, derived from old alluvium parent material, and indicates that the site soils have a slight potential for erosion from water or wind in a disturbed state.

It has been our experience that soil erosion potential can be minimized through landscaping and surface water runoff control. Typically, erosion of exposed soils will be most noticeable during periods of rainfall and may be mitigated by the use of temporary erosion control measures, such as silt fences, hay bales, straw wattles, mulching, control ditches or diversion trenching, and contour furrowing. The walls of excavations should be covered with plastic sheeting during periods of rainfall. Erosion control measures should be in place before the onset of wet weather.

Seismic Hazard

The City of Beaverton, Oregon, has adopted the new Oregon statewide building code, Oregon Structural Specialty Code (OSSC) 2019, which fully took effect for all permitted projects on January 1, 2020. The 2019 OSSC is based on the 2018 International Building Code (IBC), as amended by the State of Oregon. Section 1613.2.2 of the 2018 IBC refers to Chapter 20 of ASCE 7 for Site Class Definitions. The site soils encountered in the borings for our field exploration correspond to Site Class E based on their liquefaction potential and therefore require a site-specific analysis as per the 2018 IBC unless the building fundamental period of vibration is equal to or less than 0.5s. We have assumed that the building will have a fundamental period of vibration of less than 0.5s. The use of seismic site class D is based on the building having a fundamental period of vibration of less than 0.5s and a soil profile extending to a depth of 100 feet. Site Class D applies to a "stiff soil" profile with shear wave velocities (V_s) in the 600 to 1,200 feet per second range. The seismic Cone Penetration Test CPT-1 conducted on this site extended to a maximum depth of 50 feet bgs, and this seismic site class designation is based on evaluation of the shear wave velocities for the sCPT test and the assumption that similar soil conditions continue below the explored depth.

We referred to the Applied Technology Council (ATC) Hazards by Location Tool, ASCE 7-16, the 2019 OSSC, and the 2018 IBC to obtain values for S_S , S_{MS} , S_{DS} , S_I , S_{MI} , S_{DI} , F_a , and F_v based on a Risk Category II for the proposed structure. The ATC website utilizes the most updated published data on seismic conditions from the United States Geological Survey. The seismic design parameters for this site are presented in the following table:

Seismic Item	Value
Site Coefficient Fa	1.166
Ss	0.834
$\mathbf{S}_{\mathbf{MS}}$	0.973
S _{DS}	0.649
Site Coefficient Fv	
\mathbf{S}_1	0.394
S_{M1}	
S _{D1}	

Table 2: Seismic Design Parameters

(Reference: 2019 OSSC/2018 IBC Section 1613.2.2, ASCE 7-16, and ATC)

Additional seismic considerations include liquefaction potential and amplification of ground motions by loose/soft soil deposits. We have reviewed the "Relative Earthquake Hazard Maps for Selected Urban Areas in Western Oregon" by Ian P. Madin et al., (DOGMI, Oregon, IMS-7, 1999) for the site location. The map indicates that the site area is located in a zone of high liquefaction susceptibility. The Hazard Zones are based on combined effects of ground shaking amplification, liquefaction, and earthquake-induce landslides. Therefore, we have conducted a site-specific liquefaction analysis for this project.

Liquefaction usually occurs under vibratory conditions such as those induced by seismic events. The liquefaction potential is highest for loose sand with a high groundwater table. Soil liquefaction is a state where soil particles lose contact with each other and become suspended in a viscous fluid. This suspension of the soil grains results in a complete loss of strength as the effective stress drops to zero. Liquefaction normally occurs under saturated conditions in soils such as sand in which the strength is purely frictional. However, liquefaction has occurred in soils other than clean sand.

To evaluate the liquefaction potential of the site, we analyzed the following factors:

- 1) Soil type
- 2) Groundwater depth
- 3) Relative soil density
- 4) Initial confining pressure
- 5) Maximum anticipated intensity and duration of ground shaking.

Liquefaction Analysis: The commercially available liquefaction analysis software, LiquefyPro from CivilTech, was used to evaluate the liquefaction potential and the possible liquefaction induced settlement for the site soil and groundwater conditions based on our explorations. The analysis was performed using the information from the seismic cone penetration test CPT-1. Maximum Considered Earthquake (MCE) was selected in accordance with the Chapter 16 of the 2018 IBC and the Applied Technology Council (ATC) Hazards by Location website. For this analysis, a maximum earthquake magnitude of 9.34 and peak horizontal ground surface acceleration of 0.46g were used. Our analysis assumed a groundwater depth of 5 feet bgs during the earthquake.

Our analysis indicated that the intermittent layers of soils in upper 28 feet were liquefiable under the maximum earthquake magnitude of 9.34. The maximum liquefaction induced settlement for this type of seismic event is estimated to be on the order of approximately 1.5 inches (total settlement). The differential settlement is estimated to be on the order of about 0.75-inch (differential settlement) over 50 feet.

The liquefaction analysis plot showing the factor of safety and settlement are presented in Appendix A.

CONCLUSIONS AND RECOMMENDATIONS

<u>General</u>

It is our opinion from a geotechnical standpoint that the site is compatible with the planned development, **provided that the geotechnical engineering recommendations presented in this report are included in the project design and implemented during construction and the risks associated with seismicallyinduced settlement are deemed acceptable**. Based on our explorations, it is our opinion that conventional spread foundations supported on stiff or firmer native soils, or on structural fill extending to these soils, would be appropriate for the new building.

The sandy silt soils encountered in borings B-2 through B-5 exhibited a medium stiff consistency and are not considered suitable for support of foundation loads in their current state. We recommend that the sandy silt soils be over-excavated at least 12 inches and replaced with structural fill at the footing locations and beneath slabs-on-grade and pavement areas. Specific recommendations regarding the over-excavation requirements are provided in the Site Preparation, Foundation, Slabs, and Pavement section of this report.

Based on the conditions encountered in the soil borings during our exploration of the site, the majority of the site is covered in asphalt pavement and stripping depths of up to 9 inches are anticipated to remove the asphalt pavement and base course material or topsoil layer. The primary site is currently occupied by an existing building, as well as asphalt pavement and bricks in the courtyard area. The optional parcel is also occupied by three existing structures. All debris and rubble from demolition of these structures should be hauled off-site. Additional recommendations regarding the demolition activities are provided in the Site Preparation section of this report.

The sandy silt soils encountered during our field exploration are considered highly moisture-sensitive and may disturb easily in wet conditions. We recommend that construction take place during the drier summer months, if possible. If construction is to take place during wet weather, additional expenses and delays should be expected dur to the wet conditions. Additional expenses could include the need for placing a blanket of rock spalls to protect exposed subgrade and construction traffic areas.

In our opinion, the onsite soils are not considered suitable for re-use as structural fill material due to their high silt content. If soil types other than those revealed during our field exploration are encountered during construction, then Krazan should be consulted regarding the suitability of these soils for use as structural fill.

Site Preparation

General site clearing should include removal of any undocumented fill, organics, asphaltic concrete, abandoned utilities, and structures including foundations, slabs, rubble, and rubbish, down to natural suitable soils. In addition, any buried structures, such as septic tanks, underground storage tanks, debris pits, cesspools, or similar structures, should be completely removed and backfilled with structural fill.

After stripping operations, the building and pavement areas should be over-excavated 12 inches below the bottom of footings and 12 inches below the planned subgrade elevation in pavement areas to remove the medium stiff sandy silt soils. The over-excavation at the footing locations should extend out laterally 6-inches on each side of the footing. Following over-excavation, the areas should be backfilled with structural fill placed and compacted in accordance with the recommendations of the Structural Fill subsection of this report.

An approximately 3-foot deep drainage trench runs between the east side of the main property and the western boundary of the optional parcel. It is not known at this time if the drainage ditch will remain untouched if the optional parcel is acquired or if it will be filled in as part of the new development. Boring B-5, conducted approximately 15 feet west of the drainage ditch, encountered a 1-foot thick layer of medium stiff, dark grey silty clay beneath the asphalt pavement. This silty clay layer may extend into the drainage ditch area. If plans are to fill in the drainage ditch to finish grade, then once existing vegetation is stripped away, the silty clay should be over-excavated to stiff or firmer natural soils. The ditch should then be backfilled with properly placed and compacted structural fill, with benches cut into the sides of the ditch during placement of the structural fill to tie it into the existing soils. The benches should be 3-feet in width. Depending on the time of year, water may be encountered in the drainage ditch and measures should be taken to divert this water away from the ditch during placement of structural fill.

Existing Buildings: An existing restaurant building is located on the main property and three existing buildings are located on the optional parcel. We understand that the existing buildings are supported on a shallow foundation system. We understand that the new In-N-Out building will be constructed on nearly the same footprint as the existing building on the main parcel. It is anticipated that the optional parcel will

be utilized for additional paved parking. Existing concrete footings should be completely removed within the footprint of the new building, and to a depth of at least 1-foot below the planned subgrade elevation in new pavement areas. Undocumented fill was encountered to a depth of 3 feet bgs in boring B-1, drilled within the northwest quadrant of the new building footprint. Based on our site reconnaissance, it appears that 1 to 2 feet of fill may have been placed to raise the pad for the existing restaurant building above the surrounding existing grades during its construction. Undocumented fill will likely be encountered within the building footprint during demolition of the existing building, particularly where foundations for the existing building are located. The undocumented fill should be removed in its entirety and the resulting depression backfilled with properly placed and compacted structural fill. If undocumented fill depths encountered during the demolition activities. Krazan & Associates should be onsite full-time during the demolition activities to document that all below-grade structures have been properly removed and backfilled with properly placed and compacted structural fill, and that the resulting debris from the demolition activities have been hauled off-site and not re-used as fill at any location on the property.

Existing Utilities: All existing utilities should be completely removed from within planned building areas. For any utility line to be considered acceptable to remain, i.e. be abandoned in-place, within the building footprint, the utility line must be completely filled with grout or sand-cement slurry, the ends outside the building area capped with concrete, and the existing trench backfill removed and replaced with properly placed and compacted structural fill. Assessment of the level of risk posed by a particular utility line to the structure will determine whether the utility may be abandoned in-place or needs to be completely removed. The risks associated with abandoning utilities in-place include the potential for future differential settlement of existing trench fills and/or potential ground loss into utility lines that are not completely filled with grout if the abandonment requirements stated above are not followed.

Based on our field exploration, the soils expected to be encountered within the upper 10 feet of the site during construction are considered extremely moisture sensitive and may disturb easily in wet conditions. During wet weather conditions, subgrade stability problems and grading difficulties may develop due to excess moisture, disturbance of sensitive soils, and/or the presence of perched groundwater. Construction during extended periods of wet weather could result in the need to remove wet disturbed soils if they cannot be suitably compacted due to elevated moisture contents. The prepared subgrade should be protected from construction traffic and surface water should be diverted around the prepared subgrade. Soils that have become unstable may require drying and recompaction. Selective drying may be accomplished by scarifying or windrowing surficial material during extended periods of dry, warm weather (typically during the summer months). If the soils cannot be dried back to a workable moisture condition, remedial measures may be required. These remedial measures could include placement of a blanket of rock spalls to protect exposed subgrade and construction traffic areas. The lateral extent and depth of rock spalls, if required, should be determined based on evaluation of the near surface soil conditions at the time of construction. Additional measures to minimize disturbance to the subgrade and

near-surface soils may include the use of excavators equipped with wide tracks or use of smooth rather than toothed buckets to complete site grading.

General project site winterization should consist of the placement of aggregate base and the protection of exposed soils during the construction phase. It should be understood that even if Best Management Practices (BMP's) for wintertime soil protection are implemented and followed there is a significant chance that moisture disturbed soil mitigation work will still be required.

A representative of our firm should be present during all site clearing and grading operations to test and observe earthwork construction. This testing and observation is an integral part of our service, as acceptance of earthwork construction is dependent upon compaction and stability of the material. The geotechnical engineer may reject any material that does not meet compaction and stability requirements. Further recommendations, contained in this report, are predicated upon the assumption that earthwork construction will conform to the recommendations set forth in this section and in the Structural Fill Section.

Stormwater Infiltration Rate

The encased falling head percolation test conducted in borehole B-5 at a depth of 1.5 feet below the existing ground surface, which corresponded to the sandy silt (ML) soil layer, indicated a field measured infiltration rate of 0.75 inches per hour. In accordance with Washington County's On-Site Stormwater Design System (OSDS) Design and Construction Minimum Guidelines and Requirements (September 26, 2007), Section VIII C. Simplified Method, correction factors to account for "uncertainties in testing (F_{testing}), depth to water table or impervious strata and infiltration receptor geometry (F_{geometry}), and longterm reductions in permeability due to accumulation of fines (F_{plugging})" should be applied to the field measured infiltration rate to estimate the maximum design infiltration rate. The correction factor for the EPA falling head test method, Ftesting, is 0.30 and the correction factor for fines accumulation, Fplugging, is 0.7 for sandy silts. The correction factor for geometry, $F_{geometry}$, will need to be determined once the size of the infiltration facility is known. Following completion of the falling head test, the borehole was extended to a depth of 10 feet bgs and similar soil conditions were encountered to the explored depth of the borehole. Groundwater was encountered at a depth of 8.8 feet bgs immediately after conducting the percolation test while drilling down to the boring termination depth. We did not observe any indication of mounded water between the percolation test depth and the groundwater level encountered during drilling. Based on the minimum specified corrected infiltration rate of 0.5 inches per hour by the Washington County's OSDS and our field measured infiltration rate, it is our opinion that the site soils may not be suitable for an onsite stormwater infiltration system.

Temporary Excavations

The onsite soils have variable friction and cohesion strengths, therefore the safe angles to which these materials may be cut for temporary excavations is variable, as the soils may be prone to caving and slope

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failures in temporary excavations deeper than 4 feet. Temporary excavations in medium stiff to stiff native soils should be sloped no steeper than 2H:1V (horizontal to vertical) where room permits. Some temporary slope stability measures may be required to conduct deeper over-excavations required in some areas of the site. The design and construction of any slope stability measures, including any temporary earth retention systems, are the sole responsibility of the contractor.

All temporary cuts should be in accordance with OSHA and Oregon Administrative Rules (OARs) Subdivision P, Excavation. The temporary slope cuts should be visually inspected daily by a qualified person during construction work activities and the results of the inspections should be included in daily reports. The contractor is responsible for maintaining the stability of the temporary cut slopes and minimizing slope erosion during construction. The temporary cut slopes should be covered with plastic sheeting to help minimize erosion during wet weather and the slopes should be closely monitored until the permanent retaining systems are complete.

A Krazan & Associates geologist or geotechnical engineer should observe, at least periodically, the temporary cut slopes during the excavation work. The reasoning for this is that all soil conditions may not be fully delineated by the limited sampling of the site from the geotechnical explorations. In the case of temporary slope cuts, the existing soil conditions may not be fully revealed until the excavation work exposes the soil. Typically, as excavation work progresses the maximum inclination of the temporary slope will need to be evaluated by the geotechnical engineer so that supplemental recommendations can be made. Soil and groundwater conditions, so that the project can proceed smoothly and required deadlines can be met. If any variations or undesirable conditions are encountered during construction, Krazan & Associates should be notified so that supplemental recommendations can be made.

<u>Structural Fill</u>

Fill placed beneath foundations, pavement, or other settlement-sensitive structures should be placed as structural fill. Structural fill, by definition, is placed in accordance with prescribed methods and standards, and is monitored by an experienced geotechnical professional or soils technician under the direction of the geotechnical engineer. Field monitoring procedures would include the performance of a representative number of in-place density tests to document the attainment of the desired degree of relative compaction and moisture. The area to receive the fill should be suitably prepared as described in the Site Preparation subsection of this report prior to beginning fill placement.

Best Management Practices (BMP's) should be followed when considering the suitability of the existing materials for use as structural fill. The sandy silt soils that will be encountered during site development are considered extremely moisture-sensitive and may disturb easily in wet conditions. In our opinion, these onsite soils are not considered suitable for re-use as structural fill material due to their high silt content. An allowance for importing structural fill should be incorporated into the construction cost of the

project. During the winter, soils typically have elevated natural moisture contents, which may make these soils difficult to work with. The contractor should use Best Management Practices to protect the soils during construction activities and be familiar with wet weather and wintertime soil work.

Imported fill material should be <u>all weather</u> structural fill consisting of well-graded gravel or a sand and gravel mixture with a maximum grain size of 3 inches and less than 5 percent fines (material passing the U.S. Standard No. 200 Sieve). All structural fill material should be submitted for approval to the geotechnical engineer at least 48 hours prior to delivery to the site.

Fill soils should be placed in horizontal lifts not exceeding 8 inches loose thickness, moisture-conditioned as necessary (moisture content of soil shall not vary by more than ± 2 percent of its optimum moisture content), and the material should be compacted to at least 95 percent of the maximum dry density based on ASTM Test Method D1557 (Modified Proctor). In-place density tests should be performed on all structural fill to document proper moisture content and adequate compaction. Additional lifts should not be placed if the previous lift did not meet the compaction requirements or if soil conditions are not considered stable. Placing several lifts of fill and then potholing down to each lift to conduct compaction testing is not acceptable, and will require complete removal of the fill down to the first lift. Ponding or jetting the soil is not an approved method of soil compaction.

Shallow Foundation

Based on our explorations, the soils at the site are interpreted as natural sandy silts to the boring termination depths of 10 to 15 feet bgs. The medium stiff sandy silts are not considered suitable for support of the foundation loads. We recommend the medium stiff sandy silt soils be over-excavated at least 12 inches below the bottom of footing elevation. Deeper excavations may be needed depending on the exposed soils conditions during the excavation. Foundation excavations would need to be widened on each side of the footing a distance equal to one-half of the depth of the over-excavation below the bottom of footing elevation and compacted to at least 95 percent of the maximum dry density based on ASTM Test Method D1557. To simplify structural fill placement, it may be practical to place Control Density Fill (CDF) to fill the footing excavations to the planned footing subgrade elevations.

The proposed structure may be supported on a shallow foundation system bearing on structural fill or Controlled Density Fill (CDF) extending to suitable native soils. Footing excavations should be inspected by Krazan & Associates to prior to placement of concrete forms to verify that the foundations bear on suitable material.

New utilities should not be located within the load influence zone of the footing defined as an imaginary line extending out at 1 horizontal to 1 vertical (1H:1V) from the bottom outside edge of the footing. Depending on the location of the utility, it may be necessary to deepen the planned footing elevation such

that the pipe is located above the footing zone of influence so the footing does not impose a surcharge load on the utility.

The City of Beaverton, Oregon, requires exterior footings be located a minimum of 12 inches below grade for frost protection. We recommend that exterior footings bear a minimum depth of 18 inches below pad subgrade (soil grade) or adjacent exterior grade, whichever is lower, for frost protection and bearing capacity considerations. The minimum footing embedment depth for frost protection and the minimum footing width stated herein also comply with the 2019 OSSC requirements. Additionally, footings should conform to current International Building Code (IBC) guidelines. Water should not be allowed to accumulate in footing trenches. All loose or disturbed soil should be removed from the foundation excavation prior to placing concrete.

For foundations constructed as outlined above, we recommend that an allowable bearing capacity of 2,000 pounds per square foot (psf) may be used for foundation design for this project. A representative of Krazan and Associates should evaluate the foundation bearing soil prior to footing form construction.

Resistance to lateral footing displacement can be computed using an allowable friction factor of 0.35 acting between the bases of foundations and the supporting subgrade. Lateral resistance for footings can alternatively be developed using an allowable equivalent fluid passive pressure of 250 pounds per cubic foot (pcf) acting against the appropriate vertical footing faces (neglecting the upper 12 inches). The allowable friction factor and allowable equivalent fluid passive pressure values include a factor of safety of 1.5. The frictional and passive resistance of the soil may be combined without reduction in determining the total lateral resistance.

A 1/3 increase in the above values may be used for short duration wind and seismic loads.

For foundations constructed as recommended, the <u>total static settlement</u> is not expected to exceed 1-inch. Differential settlement, along a 20-foot exterior wall footing, or between adjoining column footings should be less than ¹/₂ inch. Most settlement is expected to occur during construction, as the loads are applied. The <u>dynamic settlement</u> is estimated to be on the order of approximately 1.5 inches (total settlement). The differential settlement is estimated to be on the order of about 0.75-inch (differential settlement) over 50 feet.

Seasonal rainfall, water run-off, and the normal practice of watering trees and landscaping areas around the proposed structures, should not be permitted to flood and/or saturate foundation subgrade soils. To prevent the buildup of water within the footing areas, continuous footing drains (with cleanouts) should be provided at the bases of the footings. The footing drains should consist of a minimum 4-inch diameter rigid perforated PVC pipe, sloped to drain, with perforations placed near the bottom and enveloped in all directions by washed rock and wrapped with filter fabric to limit the migration of silt and clay into the drain.

Floor Slabs and Flatwork

Based on our explorations, the near surface soils at the site are interpreted as medium stiff native soils, with the exception of boring B-1. Boring B-1, drilled within the northwest quadrant of the new building footprint, encountered loose undocumented fill to a depth of about 3 feet bgs. Due to the location of the existing building, undocumented fill may be encountered within the footprint of the new building, particularly at the location of existing footings. Undocumented fill should be completely removed from within the proposed footprint of the new building.

The medium stiff sandy silt soils are unsuitable for support of slabs. We recommend over-excavation of the medium stiff sandy silt to a depth of at least 12 inches below the planned floor subgrade elevation. The exposed grade after the over-excavation should be compacted to at least 95 percent of the maximum dry density as determined by ASTM Test Method D1557. Depending on the time of year construction takes place, it may be necessary to place a layer of rock spalls and/or a high-strength geotextile fabric over the soils at the bottom of the over-excavation if water accumulates and softens the soils. The area should then be filled to the planned subgrade elevation with structural fill. The structural fill should be compacted to at least 95 percent of the maximum dry density as determined by ASTM Test Method D1557. In-place density tests should be performed to verify proper moisture content and adequate compaction.

Floor slabs may be designed using a modulus of subgrade reaction value of k = 200 pounds per cubic inch (pci) for slabs supported on compacted structural fill.

In areas where it is desired to reduce floor dampness, such as areas covered with moisture sensitive floor coverings, we recommend that concrete slab-on-grade floors be underlain by a water vapor retarder system. According to ASTM guidelines, the water vapor retarder should consist of a vapor retarder sheeting underlain by a minimum of 6-inches of compacted clean (less than 5 percent passing the U.S. Standard No. 200 Sieve based on the fraction passing the No. 4 sieve), open-graded coarse rock of ³/₄-inch maximum size. The vapor retarder sheeting should be protected from puncture damage.

The exterior floors should be placed separately in order to act independently of the walls and foundation system. All fill placed in the building pads should be structural fill.

<u>For sidewalks and pedestrian pathways</u>, if loose/soft or undocumented fill soils are exposed, then we recommended that over-excavation of at least 6-inches below the planned subgrade elevation be performed. The resulting excavation *s*hould be backfilled with structural fill.

It is recommended that utility trenches located within the building pad be compacted, as specified in our report, to minimize the transmission of moisture through the utility trench backfill. Special attention to the drainage and irrigation adjacent to the building is recommended. Grading should establish drainage away from the structure and this drainage pattern should be maintained. Water should not be allowed to collect adjacent to the structure. Excessive irrigation within landscaped areas adjacent to the structure

should not be allowed to occur. In addition, ventilation of the structure may be prudent to reduce the accumulation of interior moisture.

Lateral Earth Pressures and Retaining Walls

It is not anticipated that retaining walls will be required for this project. However, in case retaining walls will be incorporated into project design, we have developed criteria for the design of retaining or below grade walls.

Our design parameters are based on retention of the in-place soils and/or imported granular structural fill. The parameters are also based on level, well-drained wall backfill conditions. Walls may be designed as "restrained" retaining walls based on "at-rest" earth pressures, plus any surcharge on top of the walls as described below, if the walls are braced to restrain movement and/or movement is not acceptable. Unrestrained walls may be designed based on "active" earth pressure, if the walls are not part of the building and some movement of the retaining walls is acceptable. Acceptable lateral movement equal to at least 0.2 percent of the wall height would warrant the use of "active" earth pressure values for design. We recommend that walls supporting horizontal backfill and not subjected to hydrostatic forces be designed using a triangular earth pressure distribution equivalent to that exerted by a fluid with a density of 35 pcf for yielding (active condition) walls, and 55 pcf for non-yielding (at-rest condition) walls.

If vehicular loads are expected to act on the surface of the wall backfill within a horizontal distance of less than or equal to one-half of the wall height behind the back face of the wall, a live load surcharge should be applied for the design. In this case, we recommend the addition of vehicle surcharges of 70 psf and 100 psf to the active and at-rest earth pressures, respectively.

The stated lateral earth pressures do not include the effects of hydrostatic pressure generated by water accumulation behind the retaining walls or loads imposed by construction equipment, slopes, foundations, or roadways adjacent to the wall (surcharge loads). To minimize the lateral earth pressure and prevent the buildup of water pressure against the walls, continuous footing drains (with cleanouts) should be provided at the bases of the walls. The footing drains should consist of a minimum 4-inch diameter perforated pipe, sloped to drain, and with perforations placed near the bottom. The drainpipe should be enveloped by 6 inches of washed gravel in all directions wrapped in filter fabric to prevent the migration of silt and clay into the drain.

The backfill placed adjacent to the wall and extending a lateral distance of at least 2 feet behind the wall should consist of free-draining granular material. All free-draining backfill should contain less than 5 percent fines (material passing the U.S. Standard No. 200 Sieve) with at least 30 percent of the material retained on the U.S. Standard No. 4 Sieve. Alternatively, a drainage composite may be used. It should be realized that the primary purpose of the free-draining material is the reduction of hydrostatic pressure. Some potential for the moisture to contact the back face of the wall may exist, even with treatment, which

may require that more extensive waterproofing be specified for walls that require interior moisture sensitive finishes.

We recommend that backfill placed within a lateral distance of 3 feet behind the wall be compacted to between 92 and 95 percent of the maximum dry density based on ASTM D1557 Test Method. In-place density tests should be performed to verify adequate compaction. Soil compaction equipment place transient surcharge loads on the backfill. Consequently, only light, hand-operated equipment is recommended for fill compaction within a 3-foot horizontal distance of the wall so that excessive stress is not imposed on the wall. Backfill placed greater than 3 feet from the wall should be compacted to at lest 95 percent relative density in accordance with ASTM D1557, which may be conducted using conventional compaction equipment.

Erosion and Sediment Control

Erosion and sediment control (ESC) is used to minimize the transportation of sediment to wetlands, streams, lakes, drainage systems, and adjacent properties. Erosion and sediment control measures should be taken and these measures should be in general accordance with local regulations. At a minimum, the following basic recommendations should be incorporated into the design of the erosion and sediment control features of the site:

- 1) Phase the soil, foundation, utility, and other work, requiring excavation or the disturbance of the site soils, to take place during the dry season (generally May through September). However, provided precautions are taken using Best Management Practices (BMP's), grading activities can be undertaken during the wet season (generally October through April). It should be noted that this typically increases the overall project cost.
- 2) All site work should be completed and stabilized as quickly as possible.
- 3) Additional perimeter erosion and sediment control features may be required to reduce the possibility of sediment entering the surface water. This may include additional silt fences, silt fences with a higher Apparent Opening Size (AOS), construction of a berm, or other filtration systems.
- 4) Any runoff generated by dewatering discharge should be treated through construction of a sediment trap if there is sufficient space. If space is limited other filtration methods will need to be incorporated.

Groundwater Influence on Structures and Earthwork Construction

Groundwater was encountered in the soil borings during drilling at a depth of 8.8 to 9.7 feet bgs, and at a depth of 13.4 feet bgs following 24 hours after drilling boring B-2. Groundwater was not encountered in

boring B-6 drilled at the optional parcel. It should be recognized that groundwater elevations may fluctuate with time. The groundwater level will be dependent upon seasonal precipitation, irrigation, land use, and climatic conditions, as well as other factors. Therefore, groundwater levels at the time of the field investigation may be different from those encountered during the construction phase of the project. The evaluation of such factors is beyond the scope of this report.

Excavation of the existing soils are anticipated for removal of the foundations for the existing buildings, removal of some existing utilities, and localized over-excavation of medium stiff soils. Depending on the required depth of these excavations, groundwater may be encountered. If groundwater is encountered during construction, we should observe the conditions to determine if dewatering will be necessary. Design of temporary dewatering systems to remove groundwater should be the responsibility of the contractor. If earthwork is performed during or soon after periods of precipitation, the subgrade soils may become saturated. These soils may "pump," and the materials may not respond to densification techniques. Typical remedial measures include: disking and aerating the soil during dry weather; mixing the soil with drier materials; removing and replacing the soil with an approved fill material. Krazan & Associates should be consulted prior to implementing remedial measures to observe the unstable subgrade conditions and provide appropriate recommendations.

Drainage and Landscaping

The ground surface should slope away from building pads and pavement areas, toward appropriate drop inlets or other surface drainage devices. It is recommended that adjacent exterior grades be sloped a minimum of 2 percent for a minimum distance of 5 feet away from structures. Roof drains should be tightlined away from foundations. Roof drains should not be connected to the footing drains, but may use the same outfall piping if connected well away from the structure and with enough fall such that roof water will not back-up into the footing drains.

Subgrade soils in pavement areas should be inclined at a minimum of 1 percent and drainage gradients should be maintained to carry all surface water to collection facilities, and suitable outlets. These grades should be maintained for the life of the project.

Specific recommendations for and design of storm water disposal systems or septic disposal systems are beyond the scope of our services and should be prepared by other consultants that are familiar with design and discharge requirements.

<u>Utility Trench Backfill</u>

Utility trenches should be excavated according to accepted engineering practices following OSHA (Occupational Safety and Health Administration) standards, by a contractor experienced in such work. The responsibility for the safety of open trenches should be borne by the contractor. Traffic and vibration adjacent to trench walls should be minimized; cyclic wetting and drying of excavation side slopes should

be avoided. Groundwater was encountered in the soil borings advanced on this site. Depending upon the location and depth of some utility trenches, groundwater flow into open excavations could be experienced, especially during or shortly following periods of precipitation.

Silty and clayey soil conditions were encountered at shallow depths in the exploratory test borings at this site. These soils have variable cohesion and can cave in trench wall excavations. Shoring or sloping back trench sidewalls may be required within these soils.

All utility trench backfill should consist of imported structural fill material. The onsite soils are unsuitable for re-use as trench backfill due to their high silt content. Trench backfill should be placed in equal measures on each side of the utility pipe.

We recommend that utility trench backfill be placed in general accordance with typical recommendations for structural fill placement. A firm and unyielding pipe subgrade should allow for the proper placement of subsurface utilities. Soft or unstable subgrades may require the placement of a geotextile and quarry rock in the bottom of utility trenches prior to placement of pipe bedding, utilities and trench backfill.

Utility trench backfill placed in or adjacent to buildings and exterior slabs should be compacted to at least 95 percent of the maximum dry density based on ASTM Test Method D1557. Care should be taken to properly place and compact the trench backfill around the utility pipe, using compaction equipment appropriate for restricted spaces such that the required level of compaction can be attained. Inadequate compaction at this level can lead to future settlement of the trench backfill and possibly cracking of foundation elements, slabs, or pavement. The upper 5 feet of utility trench backfill placed in pavement areas should be compacted to at least 95 percent of the maximum dry density based on ASTM Test Method D1557. Below 5 feet, utility trench backfill in pavement areas should be compacted to at least 90 percent of the maximum dry density based on ASTM Test Method D1557. Pipe bedding should be in accordance with the pipe manufacturer's recommendations.

The contractor is responsible for removing all water-sensitive soils from the trenches regardless of the backfill location and compaction requirements. The contractor should use appropriate equipment and methods to avoid damage to the utilities and/or structures during fill placement and compaction.

Pavement Design

Based on our explorations, the near surface soils at the site beneath the existing pavement and base course material are interpreted as native soils consisting of medium stiff sandy silt (ML), undocumented fill in boring B-1, and loose silty sand in Boring B-6. The medium stiff sandy silt is considered an unsuitable subgrade for support of the pavement section and traffic loads. We recommend over-excavation of the medium stiff sandy silt, as well as any loose/soft soils or undocumented fill encountered elsewhere within the proposed in the pavement or access drive areas, to a depth of at least 12 inches below the planned subgrade elevation. The exposed grade after the over-excavation should be compacted to at least 95

percent of the maximum dry density as determined by ASTM Test Method D1557. Due to the high sensitivity of the silt soils, it may be difficult to attain the required degree of compaction on the over-excavated subgrade. In this case, it may be necessary to place a working surface layer of clean crushed rock or rock spalls on the over-excavated subgrade, followed by placement of a high-strength geotextile separation fabric, such as Mirafi 600X or equivalent. After the fabric is placed, the area should be filled to the planned pavement subgrade elevation with structural fill. The structural fill should be compacted to at least 95 percent of the maximum dry density as determined by ASTM Test Method D1557. In-place density tests should be performed to verify proper moisture content and adequate compaction. Subgrade modification such as this is intended to disperse surcharge loads and therefore aid in pavement performance.

A proof roll of the over-excavated subgrade soil may be performed in lieu of the compaction and in-place density tests. It should be noted that subgrade soils that have relatively high silt contents may be highly sensitive to moisture conditions. The subgrade strength and performance characteristics of a silty subgrade material may be dramatically reduced if this material becomes wet.

Traffic loads were not provided, however, based on our knowledge of the proposed project, we expect the traffic to range from light duty (passenger automobiles) to heavy duty (delivery and fire trucks). A Traffic Index, TI, of 5.5 was used for design of the pavement section in accordance with the requirements of In-N-Out Burger.

The following tables show the recommended minimum pavement sections.

ASPHALTIC CONCRETE (FLEXIBLE) PAVEMENT

Asphaltic Concrete	Aggregate Base*	Compacted Subgrade* **
4.0 in.	6.0 in.	12.0 in.

PORTLAND CEMENT CONCRETE (RIGID) PAVEMENT 4000 psi with FIBER MESH

Min. PCC Depth	Aggregate Base*	Compacted Subgrade* **
6.0 in.	6.0 in.	12.0 in.

* 95% compaction based on ASTM Test Method D1557 ** A proof roll may be performed in lieu of in place density tests

The pavement specification in Appendix C provides additional recommendations including Subbase material. The asphaltic concrete depth in the flexible pavement tables should be a surface course type

asphalt as per Section 00744 of Oregon Department of Transportation (ODOT) Standard Specifications for Construction. The rigid pavement design is based on a Portland Cement Concrete (PCC) mix that has a 28-day compressive strength of 4,000 pounds per square inch (psi) with a fiber mesh.

Numerous large, mature trees surround the perimeter of the site. Roots from these trees have extended into the existing parking and access drives and caused significant damage in the form of heave, pop-outs, and cracking of the asphalt pavement. We recommend that roots from these trees be completely removed from beneath the new pavement and slab-on-grade sidewalk areas. As these are large trees, an licensed arborist specializing in tree root removal should be consulted to evaluate the tree's structural root system prior to the removal of any roots. If the roots can be removed, then we recommend a root barrier be installed prior to construction of the new pavement to deter new roots from entering the pavement subgrade and causing damage. Such root barriers are typically installed to depths of at least 30 inches or greater depending on the aggressive nature of the roots. It may not be possible to remove roots that extend into the proposed pavement areas without fatally harming the existing trees. If this is the case, it may be necessary to replace the existing trees with slow growing low shrubs with a less robust root system.

Testing and Inspection

A representative of Krazan & Associates, Inc. should be present at the site during the earthwork activities to confirm that actual subsurface conditions, including foundation bearing soils, are consistent with those exposed during our exploratory field work. This activity is an integral part of our services as acceptance of earthwork construction is dependent upon compaction testing and stability of the material. This representative can also verify that the intent of our recommendations has been incorporated into the project design and construction. Krazan & Associates, Inc. will not be responsible for grades or staking, since this is the responsibility of the Prime Contractor. Furthermore, Krazan & Associates is not responsible for the contractor's procedures, methods, scheduling, or management of the work site.

LIMITATIONS

Geotechnical engineering is one of the newest divisions of Civil Engineering. This branch of Civil Engineering is constantly improving as new technologies and understanding of earth sciences improves. Although your site was analyzed using the most appropriate current techniques and methods, undoubtedly there will be substantial future improvements in this branch of engineering. In addition to improvements in the field of geotechnical engineering, physical changes in the site either due to excavation or fill placement, new agency regulations, or possible changes in the proposed structure after the time of completion of the soils report may require the soils report to be professionally reviewed. In light of this, the owner should be aware that there is a practical limit to the usefulness of this report without critical review. Although the time limit for this review is strictly arbitrary, it is suggested that two years be considered a reasonable time for the usefulness of this report.

This report has been prepared for the exclusive use of In-N-Out Burger and their assigns, for the specific application to the subject site. Foundation and earthwork construction is characterized by the presence of a calculated risk that soil and groundwater conditions have been fully revealed by the original geotechnical investigation. This risk is derived from the practical necessity of basing interpretations and design conclusions on limited sampling of the earth. Our report, design conclusions, and interpretations should not be construed as a warranty of the subsurface conditions. Actual subsurface conditions may differ, sometimes significantly, from those indicated in this report.

The recommendations made in this report are based on the assumption that soil conditions do not vary significantly from those encountered during our field investigation. The findings and conclusions of this report can be affected by the passage of time, seasonal weather conditions, manmade influences such as construction on or adjacent to the site, and natural events such as earthquakes, slope instability, flooding, or groundwater fluctuations. If any variations or undesirable conditions are encountered during construction, the geotechnical engineer should be notified so that supplemental recommendations can be made.

The conclusions of this report are based on the information provided regarding the proposed construction. If the proposed construction is relocated or redesigned, the conclusions in this report may not be valid. The geotechnical engineer should be notified of any changes so that the recommendations can be reviewed and re-evaluated.

Misinterpretations of this report by other design team members can result in project delays and cost overruns. These risks can be reduced by having Krazan & Associates, Inc. involved in the design team's meetings and discussions prior to and following submission of the geotechnical report. Krazan & Associates, Inc. should also be retained to review pertinent elements of the design team's plans and specifications. To reduce the risk of contractors misinterpreting the recommendations of this report, Krazan & Associates should participate in pre-bid and preconstruction meetings, and provide construction observations and testing during the site work.

This report is a geotechnical engineering investigation with the purpose of evaluating the soil conditions in terms of foundation design. The scope of our services did not include any environmental site assessment for the presence or absence of hazardous and/or toxic materials in the soil, groundwater or atmosphere, or the presence of wetlands. Any statements, or absence of statements, in this report or on any soil boring logs regarding odors, unusual or suspicious items, or conditions observed are strictly for descriptive purposes and are not intended to convey engineering judgment regarding potential hazardous and/or toxic assessments.

The geotechnical information presented herein is based upon professional interpretation utilizing standard engineering practices and a degree of conservatism deemed proper for this project. It is not warranted that such information and interpretation cannot be superseded by future geotechnical developments. We

emphasize that this report is valid for this project as outlined above, and should not be used for any other site. Our report is prepared for the exclusive use of our client. No other party may rely on the product of our services unless we agree in advance to such reliance in writing.

If you have any questions, or if we may be of further assistance, please do not hesitate to contact our office at (253) 939-2500.

Respectfully submitted,

KRAZAN & ASSOCIATES, INC.

7/22/2020

Theresa R. Nunan Project Manager Vijay Chaudhary, P.E. Assistant Regional Engineering Manager



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At southeast corner of site looking southeast: large roots of mature tree causing extensive damage of pavement in form of heave and cracking.



Near boring B-4 on east side of site looking south. Crack in pavement directly above existing utility line and emanating from hard corners of drainage grate.



At western side of site looking south. Large roots of mature tree have caused damage of pavement in form of heave and cracking. It appears repairs to the pavement in this area have been made in the past. Also, longitudinal crack in pavement above existing utility along access drive.



At southeast corner of site looking west. Pavement damage observed in form of pop-outs, alligator cracking, and depressions.

Figure 3 - Photos of Existing Pavement Condition

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APPENDIX A

FIELD INVESTIGATION – LABORATORY TESTING

Field Investigation

The field investigation consisted of a surface reconnaissance and a subsurface exploration program. Six (6) soil borings, designated B-1 through B-6, were drilled and sampled for the subsurface investigation at this site. The soil borings were drilled on May 22, 2020 utilizing a Krazan operator and CME 45 drill rig equipped with 3.75-inch diameter solid flight augers under the direction of a Krazan geotechnical engineer. The borings were advanced to depths of approximately 10 to 15 feet below the existing ground surface (bgs). The approximate boring locations are shown on the Site Plan (Figure 2). The boring locations were field located based on existing site features. The boring logs are presented in this Appendix. The depths shown on the attached logs are from the existing ground surface at the time of our exploration.

The soils encountered were logged in the field during the exploration and are described in accordance with the Unified Soil Classification System (USCS). Select samples were returned to our laboratory for testing and evaluation.

One encased falling head percolation test was conducted in borehole B-5 at a depth of 1.5 feet bgs within the hollow stem augers following the Clackamas County Service District No. 1 Stormwater Standards, Appendix E, Infiltration Testing Guide. Following completion of the test, the boring was drilled and sampled to its termination depth of 10 feet bgs.

Laboratory Testing

The laboratory testing program was developed primarily to determine the index and engineering properties of the soils, and consisted of moisture content and No. 200 wash for determination of percent fines. Test results were used for soil classification and as criteria for determining the engineering suitability of the subsurface materials encountered.

Liquefaction Analysis

Liquefaction analysis was performed for site subsurface conditions, using information from soil boring B-3. The analysis was performed using the computer program LiquefyPro, Version 5.8, developed by CivilTech Software. The result of the analysis is included in this appendix.

Soil Classification

USCS Soil Classification					
	Major I	Division	Group Description		
	Gravel and	Gravel (with little or no fines)	GW	Well-Graded Gravel	
Coorso	Gravelly Soils		GP	Poorly Graded Gravel	
Grained	fraction passes	Gravel	GM	Silty Gravel	
Soils	#4 sieve	(with > 12% fines)	GC	Clayey Gravel	
< 50%	Sand and	Sand	SW	Well-Graded Sand	
passes #200	Sandy Soils > 50% coarse	(with little or no fines)	SP	Poorly Graded Sand	
sieve	fraction passes #4 sieve	Sand (with > 12% fines)	SM	Silty Sand	
			SC	Clayey Sand	
	Silt and Clay Liquid Limit < 50		ML	Silt	
Fine- Grained Soils > 50% passes #200 sieve			CL	Lean Clay	
			OL	Organic Silt and Clay (Low Plasticity)	
	Silt and Clay Liquid Limit > 50		MH	Inorganic Silt	
			СН	Inorganic Clay	
			ОН	Organic Clay and Silt (Med. to High Plasticity)	
Highly Organic Soils			PT	Peat	

Relative Density with Respect to SPT N-Value				
Coarse-Grained Soils		Fine-Grained Soils		
Density	Density N-Value (Blows/Ft)		N-Value (Blows/Ft)	
Very Loose	0 - 4	Very Soft	0 - 1	
Loose	5 -10	Soft	2 - 4	
Medium Dense	11 - 30	Medium Stiff	5 - 8	
Dense	31 - 50	Stiff	9 - 15	
Very Dense	> 50	Very Stiff	16 - 30	
	~ 50	Hard	> 30	



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Pro	ject:	In-)ut Ru	irder		Projec	t Number:	Client:	Boring No.	B-1
Adc	lress,	Cit	y, S	State:	ngoi		002-20			Equipment:	
10565 Pro	SW Beav	erton	Hillsd	ale Hwy, r ·	Beaverto	n, OR		Started		Krazan CME 4	5 Drill Rig
The	resa N	Jun	aye an	1.				5.22.2020		Automatic SPT	Hammer
Fiel	d Eng	ine	er:				ate	Completed:			
The	Theresa Nunan			Ö	5.22.2020						
				5.22.2020							
Ground Surface Elevation:			Groun	dwater Depth:		Total Depth of	Boring:				
			+/-	reet			9' on 5.2 ס	9' on 5.22.2020 @ 8:10 am 15 f			eet
Elev. (feet)	Depth (feet	Sample	Type	Sample ID	Blow Counts	N-Value (blows/ft)	Graphic Lo		Classificatio	n	Lab Results/ Notes
	1							4" AC Pavemen	t over 5" Silty Sand v	v/gravel BASE COURSE	
	2							Dark Borwn Sil sand_trace.org	ty SAND (SM), fine	e to coarse grained	
					2			bana, nace org		(FILL)	
	3		SPT	S-1	3	7				(•••==)	
	4	╞			4			Brown Sandy S	SILT (ML), fine grai	ined sand.	% Si/Cl = 75 MC = 29.6%
	5 —							occasional fine	sand lenses, stiff,	moist	
	6										
	-		РТ	S-2	2 4	8					Non-Plastic
	1	┨	S		4						% Si/Cl = 94 MC = 30.9%
	8	-									
	9 ₹	<u> </u>									
	10 —										
	11		ЪТ	S-3	2 4	6		frequent fir	ie sand lenses, we	t, medium stiff	% Si/Cl = 85
	11	┞	"		2						MC = 34.7%
	12										
	13	╶			5			occasional	1/2 to 1-inch thick	fine sand seams	
	14		SPT	S-4	6 6	12		stiff, wet			% Si/Cl = 86 MC = 33.3%
	15 —				-				End of Boring at 1	5 Foot	
	16	┥							LING OF DOFILING AT 1	51661	
	17	┥									
	18	-									
	19	\neg									
	20										

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Pro	ject:	l In-	-N-C)ut Bi	iraer		Projec	t Number:	Client:	Boring No.	B-2
Add	dress,	Ci	ty, S	State:	yoi		002 20	JU 12		Equipment:	
10565	SW Beav	/ertoi	n Hillso	lale Hwy,	Beaverto	n, OR		Stortod		Krazan CME 4	5 Drill Rig
The	resa l	nan Nur	iage nan	er:				5.21.2020		Automatic SPT	Hammer
Fiel	d Eng	gin	eer:				Ite	Completed:			
The	heresa Nunan			Da	5.21.2020						
					Backfilled:						
Gro	Ground Surface Elevation:			Grour	dwater Depth:		Total Depth of	Boring:			
	1		+/-	- feet			13.4' or	13.4' on 5.21.2020 @ 3 pm 15 f			eet
Elev. (feet)	Depth (feet)		sampie Tvpe	Sample ID	Blow Counts	N-Value (blows/ft)	Graphic Log		Classificatio	on	Lab Results/ Notes
								1" Grass over 6"	TOPSOIL		
	1	-									
	2	_								Second for a set	
			μ	S-1	1 2	6		<pre>strown Sandy s <1" thick seam</pre>	SILI (ML), fine gra	m stiff moist	
	3		S		4						
	4	_									
	5 -										
	Ŭ		F	S-2	2	7					
	6	-	S	02	4						
	7	_									
	8										
	0				2						
	9	—	SPT	S-3	2	6					
	10 -	_	•,		4						
	11										
	12	-									
	13	_									
	14		F		3	_					
	15		SP	S-4	3 4	7					
	10								End of Boring at 1	5 Feet	
	16	٦							0		
	17										
	18	\neg									
	19	_									
	20										

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Pro	ject:	In	-N-C)ut Bi	ıraer		Projec	t Number:	Client: In-N-Out Burger	Boring No.	B-3
Ado	dress,	Ci	ty, S	State:	ilgoi		002 20		in it out buiger	Equipment:	
10565 Dro		/erto	n Hillsd	lale Hwy,	Beaverto	n, OR		Started		Krazan CME 45	5 Drill Rig
The	eresa l	Nur	nan					5.21.2020		Automatic SPT	Hammer
Fie	ld Eng	gin	eer:				ate	Completed:			
The	Theresa Nunan			Ö	5.21.2020						
						5.21.2020					
Gro	ound S	Sur	face	Elev	vation	:	Groun	dwater Depth:		Total Depth of	Boring:
			+/-	- feet			9.7' on 5.21.20 @ 12:45 pm 15 te			eet	
Elev. (feet)	Depth (feet		sampie Tvpe	Sample ID	Blow Counts	N-Value (blows/ft)	Graphic Lo		Classificatio	on	Lab Results/ Notes
								4" AC Pavement	t over 5" Silty SAND	(SM) with Gravel (BASE	
	1	—						COURSE)			
	2	_			2			Brown Sandy	SILT (ML) fine area	ined sand frequent	
	3		SPT	S-1	3	7		thin lenses fine	sand, medium stiff	f, moist	
	5				4						
	4	_									
	5 -				2						
	6		ЪТ	S-2	2	8					
	0	Τ	"		5						
	7	—									
	8										
	٩										
	10 -		_		1						
	11	_	SPI	S-2	2	6					
	12				4						
	12										
	13				4			_			
	14		SPT	S-4	5	12		Becomes s	tiff		
	15-	_			/						
	16	-							End of Boring at 1	5 Feet	
	17	_									
	18	_									
	19										
	20										

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Pro	ject: bosed l	n-N-C	Dut Bi	ıraer		Projec	t Number:	Client: In-N-Out Burger	Boring No.	B-4
Add	lress, C	City, S	State:						Equipment:	
10565 Pro	SW Beaver	ton Hills Inage	dale Hwy, er:	Beaverto	in, OR		Started:		3.75" OD Solid	Flight Augers
The	resa Nu	unan				υ	5.21.2020		Automatic SPT	Hammer
The	Theresa Nunan			Dat	5.21.2020					
					Backfilled:					
Gro	Ground Surface Elevation:			Groun	dwater Depth:		Total Depth of	Boring:		
+/- feet				9.3' on { ס	5.21.20 @ 4:25 pm		10 fe	et		
Elev. (feet	Depth (fee	Sample Tyne	Sample ID	Blow Counts	N-Value (blows/ft)	Graphic Lo		Classificatior	ı	Lab Results/ Notes
							4" AC Pavement	t over 5" Silty SAND (SM) with Gravel (BASE	
	1 -	1								
	2 -	-					Brown Sandy S	SILT (ML), fine grair	ned sand,	
	3 -			2			occasional 1/4	to 1" thick seams fir	ne sand, medium	
	4 -	SPT	S-1	3 4	7					
	5 —			3			Becomes s	tiff, frequent lenses	and up to 1" thick	
	6 -	SPT	S-2	4	10		seams fine san	d .		
	7 -	┦								
	8 -									
	9 🔻	Ы	S-3	2	5		Becomes r	nedium stiff, wet		
	10 —	S		3						
	11 -	_					1	End of Boring at 10) Feet	
	12 -									
	13 -									
	14 -									
	15—	-								
	16 -									
	17 -	_								
	18 -									
	19 -									
	20									

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Pro	ject:	In-N	-0	ut Bu	ıraer		Projec	t Number:	Client: In-N-Out Burger	Boring No.	B-5
Add	ress,	City	, S	tate:	30.					Equipment:	
10565	SW Beave	rton Hi	llsda	ile Hwy,	Beaverto	n, OR		Startad.		Krazan CME 45	5 Drill Rig
The	resa N	anag Unai	ger n					5 22 2020		3.75 OD Solid Automatic SPT	Hammer
Fiel	d Eng	inee	r:				te	Completed:			Hammon
The	Theresa Nunan			Da	5.22.2020						
						Backfilled:					
Ground Surface Elevation:				Groun	5.22.2020 dwater Depth:		Total Depth of	Boring:			
		-	+/-	feet		-	3.8' on 5.22.2020 @ 9:35 ar 10 f			et	
Elev. (feet)	Depth (feet)	sample	Tvpe	Sample ID	Blow Counts	N-Value (blows/ft)	Graphic Log		Classificatio	'n	Lab Results/ Notes
								4" AC Pavement	t over 3" Silty SAND	(SM) with Crushed Rock	
	1 ·				2			Dark Grey Silty	:) / CLAY (CL), trace	roots, medium stiff,	
	2	SPT	5	S-1	2	5		moist			
	-				3						
	3 -							Brown Sandy S	SILT (ML), fine grai	ned sand, frequent	
	4							thin horizontal a	and vertical grey fin	e sand lenses,	
	_							medium stiff, m	oist		
	5 —	T.			4						
	6	- SP	5	S-2	4	8					
	7				4						
	1										
	8 -										
	9 ₹			• •	2			Become	s wet		
		р С	5	S-3	4 4	8					
	10 —										
	11 ·								End of Boring at 1	0 Feet	
	12 ·										
	13										
	14										
	15 —										
	16 ·										
	17										
	18 ·	_									
	19										
	20										
	20										

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Pro	ject:	l In-	-N-C)ut Bu	iraer		Projec	t Number:	Client: In-N-Out Burger	Boring No.	B-6
Add	Iress	, Ci	ty, S	State:	ingoi		002 20		in it out burger	Equipment:	
10565	SW Bea		n Hillsd	ale Hwy,	Beaverto	n, OR		Startad		Krazan CME 45	5 Drill Rig
The	resa	Nur	nan	1.				5.21.2020		Automatic SPT	Hammer
Fiel	d En	gin	eer:				ate	Completed:			
The	Theresa Nunan			Ď	5.21.2020						
				5 21 2020							
Gro	Ground Surface Elevation:			:	Groun	dwater Depth:		Total Depth of	Boring:		
			+/-	feet			Not	ncountered 10 f			eet
Elev. (feet)	Depth (feet)		oampie Tvbe	Sample ID	Blow Counts	N-Value (blows/ft)	Graphic Log		Classification		Lab Results/ Notes
								6" Grass and Da	rk Brown Silty Sand T	OPSOIL	
	1 2 2		SPT	S-3	1 3 2	5		Dark Brown to B grained, loose, n	rown Silty SAND (SM) noist	, trace Gravel, fine	
	3 4 5 -	_	SPT	S-3	2 4 6	10		Brown Sandy S occasional thin	SILT (ML) , fine grain lenses fine sand, sti	ed sand, ff, moist	
	6 7 8		SPT	S-3	3 4 5	9					
	9 10 -	_	SPT	S-4	2 4 5	9					
	11								End of Boring at 10	Feet	
	12										
	13	_									
	14	_									
	15-										
	16	_									
	17	_									
	18	_									
	19 20	_									

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APPENDIX B

EARTHWORK SPECIFICATIONS

GENERAL

When the text of the report conflicts with the general specifications in this appendix, the recommendations in the report have precedence.

SCOPE OF WORK: These specifications and applicable plans pertain to and include all earthwork associated with the site rough grading, including but not limited to the furnishing of all labor, tools, and equipment necessary for site clearing and grubbing, stripping, preparation of foundation materials for receiving fill, excavation, processing, placement and compaction of fill and backfill materials to the lines and grades shown on the project grading plans, and disposal of excess materials.

PERFORMANCE: The Contractor shall be responsible for the satisfactory completion of all earthwork in accordance with the project plans and specifications. This work shall be inspected and tested by a representative of Krazan and Associates, Inc., hereinafter known as the Geotechnical Engineer and/or Testing Agency. Attainment of design grades when achieved shall be certified to by the project Civil Engineer. Both the Geotechnical Engineer and Civil Engineer are the Owner's representatives. If the contractor should fail to meet the technical or design requirements embodied in this document and on the applicable plans, he shall make the necessary readjustments until all work is deemed satisfactory as determined by both the Geotechnical Engineer and Civil Engineer. No deviation from these specifications shall be made except upon written approval of the Geotechnical Engineer, Civil Engineer or project Architect.

No earthwork shall be performed without the physical presence or approval of the Geotechnical Engineer. The Contractor shall notify the Geotechnical Engineer at least 2 working days prior to the commencement of any aspect of the site earthwork.

The Contractor agrees that he shall assume sole and complete responsibility for job site conditions during the course of construction of this project, including safety of all persons and property; that this requirement shall apply continuously and not be limited to normal working hours; and that the Contractor shall defend, indemnify and hold the Owner and the Engineers harmless from any and all liability, real or alleged, in connection with the performance of work on this project, except for liability arising from the sole negligence of the Owner of the Engineers.

TECHNICAL REQUIREMENTS: All compacted materials shall be compacted to a density not less than 95 percent of maximum dry density as determined by ASTM Test Method D1557 as specified in the technical portion of the Geotechnical Engineering Report. The results of these tests and compliance with these specifications shall be the basis upon which satisfactory completion of work will be judged by the Geotechnical Engineer.

SOIL AND FOUNDATION CONDITIONS: The Contractor is presumed to have visited the site and to have familiarized himself with existing site conditions and the contents of the data presented in the soil report.

The Contractor shall make his own interpretation of the data contained in said report, and the Contractor shall not be relieved of liability under the contractor for any loss sustained as a result of any variance

between conditions indicated by or deduced from said report and the actual conditions encountered during the progress of the work.

DUST CONTROL: The work includes dust control as required for the alleviation or prevention of any dust nuisance on or about the site or the borrow area, or off-site if caused by the Contractor's operation either during the performance of the earthwork or resulting from the conditions in which the Contractor leaves the site. The Contractor shall assume all liability, including Court costs of codefendants, for all claims related to dust or windblown materials attributable to his work.

SITE PREPARATION

Site preparation shall consist of site clearing and grubbing and preparations of foundation materials for receiving fill.

CLEARING AND GRUBBING: The Contractor shall accept the site in this present condition and shall demolish and/or remove from the area of designated project earthwork all structures, both surface and subsurface, trees, brush, roots, debris, organic matter, and all other matter determined by the Geotechnical Engineer to be deleterious. Such materials shall become the property of the Contractor and shall be removed from the site.

Tree root systems in proposed building area should be removed to a minimum depth of 3 feet and to such an extent which would permit removal of all roots larger than 1 inch. Tree root removed in parking areas may be limited to the upper 1½ feet of the ground surface. Backfill or tree root excavation should not be permitted until all exposed surfaces have been inspected and the Geotechnical Engineer is present for the proper control of backfill placement and compaction. Burning in areas, which are to receive fill materials, shall not be permitted.

SUBGRADE PREPARATION: Subgrade should be prepared as described in our site preparation section of this report.

EXCAVATION: All excavation shall be accomplished to the tolerance normally defined by the Civil Engineer as shown on the project grading plans. All over excavation below the grades specified shall be backfilled at the Contractor's expense and shall be compacted in accordance with the applicable technical requirements.

FILL AND BACKFILL MATERIAL: No material shall be moved or compacted without the presence of the Geotechnical Engineer. Material from the required site excavation may be utilized for construction site fills provided prior approval is given by the Geotechnical Engineer. All materials utilized for constructing site fills shall be free from vegetable or other deleterious matter as determined by the Geotechnical Engineer.

PLACEMENT, SPREADING AND COMPACTION: The placement and spreading of approved fill materials and the processing and compaction of approved fill and native materials shall be the responsibility of the Contractor. However, compaction of fill materials by flooding, ponding, or jetting shall not be permitted unless specifically approved by local code, as well as the Geotechnical Engineer.

Both cut and fill shall be surface compacted to the satisfaction of the Geotechnical Engineer prior to final acceptance.

SEASONAL LIMITS: No fill material shall be placed, spread, or rolled while it is frozen or thawing or during unfavorable wet weather conditions. When the work is interrupted by heavy rains, fill operations shall not be resumed until the Geotechnical Engineer indicates that the moisture content and density of previously placed fill are as specified.

APPENDIX C

PAVEMENT SPECIFICATIONS

1. DEFINITIONS – The term "pavement" shall include asphalt concrete surfacing, untreated aggregate base, and aggregate subbase. The term "subgrade" is that portion of the area on which surfacing, base, or subbase is to be placed.

2. SCOPE OF WORK – This portion of the work shall include all labor, materials, tools and equipment necessary for and reasonable incidental to the completion of the pavement shown on the plans and as herein specified, except work specifically notes as "Work Not Included."

3. PREPARATION OF THE SUBGRADE – The Contractor shall prepare the surface of the various subgrades receiving subsequent pavement courses to the lines, grades, and dimensions given on the plans and pavement design section of this report. The upper 12 inches of the soil subgrade beneath the pavement section shall be compacted to a minimum compaction of 95% of maximum dry density as determined by test method ASTM D1557. The finished subgrades shall be tested and approved by the Geotechnical Engineer prior to the placement of additional pavement of additional pavement courses.

4. AGGREGATE BASE – The aggregate base shall be spread and compacted on the prepared subgrade in conformity with the lines, grades, and dimensions shown on the plans. The aggregate base should conform to ODOT Standard Specification for Base Aggregate (Table 02360-1). The base material shall be compacted to a minimum compaction of 95% as determined by ASTM D1557. Each layer of subbase shall be tested and approved by the Geotechnical Engineer prior to the placement of successive layers.

5. ASPHALTIC CONCRETE SURFACING – Asphaltic concrete surfacing shall consist of a mixture of mineral aggregate and paving grade asphalt, mixed at central mixing plant and spread and compacted on a prepared base in conformity with the lines, grades, and dimensions shown on the plans. The drying, proportioning, and mixing of the materials shall conform to ODOT Specifications.

The prime coat, spreading and compacting equipment, and spreading and compacting the mixture shall conform to ODOT Specifications, with the exception that no surface course shall be placed when the atmospheric temperature is below 50 degrees F. The surfacing shall be rolled with combination steel-wheel and pneumatic rollers, as described in ODOT Specifications. The surface course shall be placed with an approved self-propelled mechanical spreading and finishing machine.

6. TACK COAT – The tack (mixing type asphaltic emulsion) shall conform to and be applied in accordance with the requirements of ODOT Specifications.





DEVELOPER: **IN-N-OUT BURGER** 13502 HAMBURGER LANE BALDWIN PARK, CA 91706 CONTACT: CASSIE RUIZ PHONE: 626 813-8226

Underground Service Alert Call: Toll Free 8 1 1 Two working Days BEFORE YOU DIG	REVISIONS A A A A A A A A A A A A A A A A A A A

BOUNDARY AND EASEMENT MAP



COUNTY ENTITLEMENT BOUNDARY AND EASEMENT MAP

SURVEY CONTROL POINTS

BOUNDARY AND EASEMENT MAP PARTIAL LEGEND

WEDDLE SURVEYING CONTROL POINTS 200, 201, 202, 203, 211, 212

S.F. OR 2.136 ACRES NET

AND 213 SET FLAGGED MAG NAIL AS SHOWN.

• INDICATES THE BOUNDARY OF THIS BOUNDARY AND EASEMENT MAP CONSISTING OF 97,701 S.F. OR 2.243 ACRES AND 93,045





	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY	SPACING	REMARKS
	REES						
	$\langle \ \rangle$						
	• -	- EXISTING OFF SITE TREES TO F	REMAIN.				
\frown							
+		HEARTS OF GOLD'	REDBUD	1.5" CALIPER	+/-51	PER PLAN	MATCHED
\swarrow							
(A	— ACER RUBRUM	RED SUNSET MAPLE	3" CALIPER	+/- 16	PER PLAN	STANDARDS -
)						MATCHED
\nearrow							
		ACER PSEUDOPLATANUS	ESKIMO SUNSET	1.5" CALIPER	+/- 11	PER PLAN	STANDARDS -
	SHRUBS	'ESK SUNSET'	SYCAMORE MAPLE				MATCHED
	a	 ABELIA X GRANDIFLORA 'KALEIDOSCOPE' 	GOLD-VARIEGATED ABELIA	5 GALLON	+/- 323	24" O.C.	TRIANGLE SPACIN
	۵	AZALEA X 'GIRARD'S PI FASANT WHITF'	GIRARD'S PLEASANT WHITE EVERGREEN AZAI FA	5 GALLON	+/- 24	24" O.C.	TRIANGLE SPACIN
	A	- AZALEA X	RED RUFFLES AZALEA	5 GALLON	+/- 16	24" O.C.	TRIANGLE SPACIN
	⊕ ——	'RED RUFFLES' — BUXUS MICROPHYLLA VAR.	WINTER GEM BOXWOOD	5 GALLON	+/- 89	24" O.C.	TRIANGLE SPACI
	@ ——	JAPONICA 'WINTER GEM' — BOUTELOUA GRACILIS	BLONDE AMBITION	5 GALLON	+/- 83	24" O.C.	TRIANGLE SPACIN
	<u> </u>		BLUE GRAMA GRASS	10410	 _/ 110	24" 0 0	
	•	HALLMARK'		I GALLON	+/- 140	24 U.U.	
	©	 BERBERIS THUNBERGII 'CONCORDE' 	CONCORDE JAPANESE BARBERRY	5 GALLON	+/- 403	24" O.C.	I RIANGLE SPACI
	⊕ ——	 BERBERIS THUNBERGII 'ORANGE ROCKET' 	ORANGE ROCKET BARBERRY	5 GALLON	+/- 107	36" O.C.	TRIANGLE SPACIN
	\oplus —	- CALAMAGROSTIS X ACUTIFLOR	A FEATHER REED GRASS	5 GALLON	+/- 130	24" O.C.	TRIANGLE SPACI
	•	- DIANELLA TASMANICA	VARIEGATED FLAX LILY	5 GALLON	+/- 306	24" O.C.	TRIANGLE SPACIN
	⊗ —	'VARIEGATA' — EUONYMUS JAPONICUS	GOLDEN EUONYMUS	5 GALLON	+/- 124	36" O.C.	TRIANGLE SPACI
N .	©	'AUREO-MARGINATUS'	HESPERALOE PINK PARADE	5 GALLON	+/- 93	24" O C	TRIANGLE SPACIN
		'PINK PARADE'		5 OALLON	./ 01	24 0.0.	
	< <u>+</u> >	- LIGUSTRUM JAPONICUM 'TEXANUM'	WAXLEAF PRIVET	5 GALLON	+/- 21	36" O.C.	I RIANGLE SPACI
	\oslash —	 RHAPHIOLEPIS INDICA 'BALLERINA' 	BALLERINA INDIAN HAWTHORN	5 GALLON	+/- 104	36" O.C.	TRIANGLE SPACI
	···			5 GALLON	+/- 58	36" O.C.	TRIANGLE SPACI
	۵	- NANDINA	OBSESSION NANDINA	5 GALLON	+/- 108	36" O.C.	TRIANGLE SPACI
	•	- PENNISETUM	HAMELN FOUNTAIN	1 GALLON	+/- 98	24" O.C.	TRIANGLE SPACI
	© —	ALOPECURIODES 'HAMELN' — PICEA PUNGENS	GRASS DWARF GLOBE	5 GALLON	+/- 104	36" O.C.	TRIANGLE SPACI
		'GLOBOSA' — VIBURNUM CARLESII	BLUE SPRUCE KORFAN SPICE VIBURNUM	5 GALLON	+/- 82	36" O.C.	TRIANGLE SPACI
	₩ ₩	- PITTOSPORUM TOBIRA	CREME DE MINT DWARF	5 GALLON	+/- 87	36" O.C.	TRIANGLE SPACIN
	GROUND	'SHIMA' COVER	PITTOSPORUM				
		— LANTANA CAMARA	BANDOLERO PINEAPPLE	5 GALLON	+/- 263	36" O.C.	TRIANGLE SPACI
		'PINEAPPLE'			/ /00		
	())	— LANTANA CAMARA YELLOW BANDANA	YELLOW BANDANA LANTANA	1 GALLON	+/- 188	36" O.C.	TRIANGLE SPACII
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			SOD	+/- 6,617	PER PLAN	
		— DWARF TALL FESCUE					
	+ + + + + + + + + + + + + + + + + + +	— DWARF TALL FESCUE	SUBMIT CUT SHEET TO OWNER PRIOR TO ORDERIN	G	SQ FT		
	NOTE: 1. QUANTITI 2. ALL PLAN 3. ALIGN TR 4. INSTALL 3	— DWARF TALL FESCUE ES SHOWN ARE APPROXIMATE, CO IT MATERIAL SHALL BE REVIEWED A EES WITH PARKING STALLS STRIPIN 3" SHREDDED MULCH FOR ALL LANE	SUBMIT CUT SHEET TO OWNER PRIOR TO ORDERIN NTRACTOR SHALL VERIFY COU ND APPROVED BY IN-N-OUT RE NG. DSCAPE AREAS.	G INT. BASED UF EP. AND LANDS	SQ FT PON OC SP. SCAPE ARC	ACING INDIC CHITECT.	ATED.
	NOTE: 1. QUANTIT 2. ALL PLAN 3. ALIGN TR 4. INSTALL 3	DWARF TALL FESCUE     SHOWN ARE APPROXIMATE, CO     IT MATERIAL SHALL BE REVIEWED A     EES WITH PARKING STALLS STRIPIT 3" SHREDDED MULCH FOR ALL LANE	SUBMIT CUT SHEET TO OWNER PRIOR TO ORDERING NTRACTOR SHALL VERIFY COU ND APPROVED BY IN-N-OUT RE NG. DSCAPE AREAS.	G INT. BASED UF EP. AND LAND 5%) = 14.178	SQ FT PON OC SP. SCAPE ARC	ACING INDIC CHITECT.	ATED.
	NOTE: 1. QUANTITI 2. ALL PLAN 3. ALIGN TR 4. INSTALL 3 Lot Area 3 Building F	DWARF TALL FESCUE  ES SHOWN ARE APPROXIMATE, CO IT MATERIAL SHALL BE REVIEWED A EES WITH PARKING STALLS STRIPIR 3" SHREDDED MULCH FOR ALL LANE  fifteen (15) percent required landscapi loor Area Building Eloor Area	SUBMIT CUT SHEET TO OWNER PRIOR TO ORDERING NTRACTOR SHALL VERIFY COUND APPROVED BY IN-N-OUT RENG. DSCAPE AREAS. $\frac{ng}{Y} = (94,525 \text{ Lot Area x 1})$	G INT. BASED UF EP. AND LAND: 5%) = 14,178	SQ FT PON OC SP. SCAPE ARC	ACING INDIC CHITECT.	ATED.
	NOTE: 1. QUANTITI 2. ALL PLAN 3. ALIGN TR 4. INSTALL 3 Lot Area 2 Building F Proposed Z / Y = (A	DWARF TALL FESCUE      SHOWN ARE APPROXIMATE, CO     TMATERIAL SHALL BE REVIEWED A     EES WITH PARKING STALLS STRIPIN     "SHREDDED MULCH FOR ALL LANE     fifteen (15) percent required landscapi     loor Area     Building Floor Area     ddition as percent of total building area)	SUBMIT CUT SHEET TO OWNER PRIOR TO ORDERING NTRACTOR SHALL VERIFY COUND APPROVED BY IN-N-OUT RENG. DSCAPE AREAS. $\frac{1}{2} = (94,525 \text{ Lot Area x 1})$ $\frac{1}{2} = 3,885$ $\frac{1}{2} = 3,885 / 9,598) = .40$	G INT. BASED UF EP. AND LAND 5%) = 14,178	SQ FT PON OC SP. SCAPE ARC	ACING INDIC CHITECT.	ATED.
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10505 AND 10565 SW BEAVERTON-WASHINGTON COUNTY, OR 97005

ENTITLEMENT LANDSCAPE PLANTING PLAN

LPP.1 JN 20011-20011 C30.0cens Exhibit Q Page 1 of 1



Page 1 of 1



APPLICANT NOTE: Upon completion, submit this form with your Current Planning development application Attachment E

#### NEIGHBORHOOD MEETING AFFIDAVIT OF POSTING NOTICE

Name of Applicant <u>IN-N-OUT BURGEPS / FAST</u>SIGNS OF BEAVERTON Subject Property: Tax Lot(s) <u>15114 BC2100</u> Tax Map(s) _____ Address or General Location: <u>10505/10565 SW BEAUERTON HILLEDALE HUY</u> BEAVERTON, OR 97005

I, <u>TERESA DAULS</u>, do swear or affirm that I am (represent) the party initiating interest in a proposed <u>DEVELOPMENT OF A 3,889 A² QVICK SERVICE RESTAURANT</u> affecting the land located at <u>10505/10505</u> SW BEAVERTON HILLSDALE HWY and that pursuant to R&O No. 2006-20, did on the <u>3074</u> day of <u>APRIL</u>, 20<u>21</u> personally post the notice indicating that the site may be proposed for a <u>DEVELOPMENT OF A</u> <u>3,865 SAFT QVICK SERVICE RESTAURANT</u> application. WITH DRIVE THRU SERVICE AND OUTDOOR SEATING

The sign was posted at 10505/10565 SW BEAUERTON- HILLSDALE HWY (Location of sign on property) BEAUERTON, OR 97005

Map attached showing approximate sign notice location. (check if attached)

This 30 day of APRIL , 20 21

Signature

	64
Subscribed and sworn to, or affirmed, before m	ethis 3rd day of May June 2021.
	Notary Public for the State of Oregon
OFFICIAL STAMP ERIC HER NOTARY PUBLIC - OREGON	county of Washington
MY COMMISSION EXPIRES NOVEMBER 29, 2024	My Commission expires: November 29, 2024

1 ...

Updated September 16, 2019



#### **APPLICANT NOTE:**

Upon completion, submit this form with your Current Planning development application Attachment E

#### NEIGHBORHOOD MEETING AFFIDAVIT OF MAILING

Californa STATE OF OREGON	) ) )	SS
LOS ANGELES 1. CASSIE 12V12		_, being duly sworn, depose and say that on the9 大比
day of APPIL	,20	_ I caused to have mailed to each of the persons on the attached
list a notice of a meeting to c	liscuss a pro	posed development at 10505 \$ 10565 SW BEAVERION
HILLSDALF. HWY	, a copy c	of which notice so mailed is attached hereto and made a part
hereof.		

I further state that said notices were enclosed in envelopes plainly addressed to said persons and were deposited on the date indicated above in the United States Post Office with postage prepaid thereon.

Signature

Subscribed and sworn to, or affirmed, before me this  $\underline{\mathcal{DH}}$  day of  $\underline{\mathcal{UUY}}$ , 20<u>21</u>



tate of ornia Notary Public County of Los Angeles

My Commission expires: February 17. 2025

APPLICANT NOTE: Upon completion, submit this form with your Current Planning development application Attachment E

#### **NEIGHBORHOOD MEETING**

AFFIDAVIT OF MAILING MEETING NOTES TO THE COMMUNITY PARTICIPATION ORGANIZATION (CPO)

California	
STATE OF OREGON	
County of <del>Washington</del>	)
Los Angules	
I, CASSIE RVIZ	, being duly sworn, depose and say that on the <u>3</u> $\frac{3}{2}$
day of <u>UNE</u> 20_2	I caused to have mailed to CPO $\underline{3}$ the meeting notes
for the neighborhood meeting held or	the <u>2076</u> day of <u>MDAI</u> <u>20</u> 2/
to discuss a proposed development at	10565 \$ 10505 SW BEAVERTON HILLSDALE HUY
a copy of the meeting notes so mailed	is attached hereto and made a part hereof.

I further state that said meeting notes were enclosed in envelopes plainly addressed to CPO  $_$  3 and were deposited on the date indicated above in the United States Post Office with postage prepaid thereon.

Signature

Subscribed and sworn to, or affirmed, before me thi	s_Oth day of July, 2021.
	Notary Public for the State of California
LORI BRAZZILL Notary Public - California	County of LOS Angeles
Los Angeles County Commission # 2347601 My Comm. Expires Feb 17, 2025	My Commission expires: February 17, 2025

Exhibit T Page14 of 47 13502 Hamburger Lane Baldwin Park, Ca 91706-5885 626-813-8200



The Best Enterprise Is A Free Enterprise™

#### June 3, 2021

Mr. Stan Houseman Washington County Community Participation Organization 3 Via Email: <u>housemanguality@yahoo.com</u>

#### Re: In-N-Out Burger Neighborhood Meeting Summary 10565 SW Beaverton Hillsdale Highway, Beaverton, Oregon

#### Dear Stan,

As you know, In-N-Out Burger conducted its 2nd Neighborhood Developer Meeting at 6:00 p.m. on Thursday, May 20, 2021 via Zoom (in light of the ongoing Coronavirus pandemic) in regards to our proposed project located at 10565 SW Beaverton Hillsdale Highway. Pursuant to our conversation, and per County guidelines, please let this letter and corresponding attachments serve as a summary of that night's meeting. Attached you will find a copy of the full narrative of the meeting, a copy of the project slides, a listing of the night's attendees, as well as a listing of the full questions/comments submitted by the attendees during the "Q&A" portion of the evening. As per the narrative, not all questions were specifically addressed as many were relative to similar and/or already discussed topic within the presentation and/or by another user's question(s).

I am including in this letter a summary of the thematic questions presented as well as the answers given to those respective topics.

1. How will In-N-Out Burger address potential security, parking, and traffic concerns related to the residential neighborhoods on Laurel Avenue, 103rd Avenue and Kennedy Park?

By closing the Laurel Avenue curb cut to emergency access only via a locked fence, no customer entry will be granted via the residential neighborhoods. All In-N-Out Burger traffic, both entry and exit will be on Beaverton Hillsdale Highway, away from the residences. The site plan shows a dedicated area to In-N-Out Burger Associate parking as well. With the closure of access on the neighborhood street, which was made in direct response to the comments we received from our first neighborhood meeting, the majority of the concerns related to the adjacent residential developments should be alleviated.

2. How can the existing traffic counts for the property exceed In-N-Out Burger's?

The standard methodology of studying traffic impacts of proposed new developments is to take the existing use (in this case, a fast food drive through restaurant and a sit down restaurant), use their standard trip count as published in the ITE Trip Generation Manual and compare them with the proposed use (in this case, an In-N-Out Burger restaurant). This does not necessarily mean that the analysis is specifically analyzing the trip generation by Hawaiian Time BBQ and Azteca Mexican Restaurant, but rather what a standard fast food and sit down restaurant can generate at this property, as that is what the property is approved for operating. This is a standard procedure and method for comparing potential traffic impacts for proposed new development. 13502 Hamburger Lane Baldwin Park, Ca 91706-5885 626-813-8200



The Best Enterprise Is A Free Enterprise™

Due to the required process dictated by Washington County Land Use and Transportation, the Neighborhood Meeting has to occur prior to the project submittal. Therefore, the finalized documentation had not been complete at the time of the meeting but will be included in the application submission and will be available for public review pursuant to County guidelines. The submittal will include the detailed analysis, methodology and calculation of these findings.

3. How will In-N-Out manage the traffic and queuing on SW Beaverton Hillsdale Highway given In-N-Out Burger's expected demand?

We understand that the initial opening period for an In-N-Out Burger, especially one in a newer market, may be elevated. In-N-Out Burger will create and engage in a Traffic Management Plan that will address the excess demand in conjunction with City and County Transportation officials, ODOT, the police and sheriff department, professional traffic control firms, flaggers and directional signage to manage and ease the flow of traffic. This Traffic Management Plan will be implemented until it is no longer necessary – i.e. once the demand is settled into a mature store level. The Traffic Management Plan will address additional areas for drive through queuing and will not allow queuing directly on Beaverton Hillsdale Highway, as that does not conform to ODOT standards or allowances.

One final note that is similar with the response to question #2 above but is also applicable on a more global basis, is that because of the required timing of the Neighborhood Meeting relative to the County process for submitting applications, not all project studies were finalized at the time of the meeting. Further, the application and supporting documentation is subject to review, comment, revision and refinement throughout the review process. Finalized documentation will be available to the public prior to any decision rendered by Washington County. Therefore, I'd like to stress to your community members that there may be some questions that do not have a concrete response at this time, given that we are still at the very beginning of the process within the County. However, all questions and comments have been logged and are submitted here with this letter to you and will be included in our submittal with the County for use during their review.

If you should have any further questions, please do not hesitate to contact me. Thank you.

Respectfully,

cassienay

Cassie Yee Development Manager 626-813-8226 cyee@innout.com

#### BEAVERTON 2ND NEIGHBORHOOD MEETING NARRATIVE

Good evening. Thank you all for attending this "second" virtual neighborhooddeveloper meeting via Zoom. For those of you joining us for the first time, welcome, and for those that also attended our previous meeting held last December, welcome back and I hope you'll enjoy hearing about the improvements we made to this proposed project as a direct result from your feedback. My name is Cassie Yee and I am the Development Manager for In-N-Out Burger on this proposed site. We greatly appreciate your attendance and participation in this process, and I am very excited to share more details of our proposed project with you.

Much of tonight's meeting will focus on the changes we've made to our development plan over the last several months that directly addresses the comments and questions we received directly from you last December. But I will still touch very quickly on some of the points from the previous presentation for the benefit of those who were unable to join us last time.

We will again hold an interactive, live Q&A session, where you as the meeting participants can present questions using the chat feature, and I can respond, similar to our last meeting. I do ask that you hold off on your questions until we reach the Q&A session, as I will not be monitoring the chat feature until we start that portion of the meeting. I will give detailed instructions once we get to that point.

So, let's get started....

As you know, we are talking today regarding a proposed In-N-Out restaurant within Washington County at 10565 SW Beaverton Hillsdale Highway in Beaverton, Oregon.

#### COMPANY HISTORY, VALUES, & CULTURE OF IN-N-OUT BURGER

As most of you know, In-N-Out Burger was founded in 1948 by Harry and Esther Snyder in Baldwin Park, California. And now, more than 70 years after they opened that very first location, In-N-Out is still a family-owned business. Every single In-N-Out Burger location is 100% privately owned and operated - we do not franchise. Harry and Esther's very own granddaughter, Lynsi Snyder, is the owner and President of In-N-Out, holding firm to the foundation and core values originally set by Harry and Esther many years ago.

We went over in detail during our last meeting about In-N-Out Burger's three-pronged Mission Statement, which is shown here on the screen. Everything we do here at In-N-Out Burger is governed by these three concepts - providing a fresh, high quality product, a team-oriented atmosphere, and assisting all communities in our marketplace.

Exhibit T Page 7 of 47 We talked about our In-N-Out motto: "Quality You Can Taste". All of our food is made to order, and there isn't a single heat lamp, microwave, or freezer, to be found in any of our kitchens. We are committed to only the freshest ingredients with hamburger patties made from 100% American beef, that is boned and ground from whole chucks by In-N-Out's own butchers and delivered fresh, never frozen, to each of our stores. Milk shakes are made from real ice cream; we hand-leaf all of our iceberg lettuce; and our French fries are hand-diced in-store from fresh whole potatoes.

In-N-Out Associates are more than just employees - we are a family. In-N-Out values each and every one of our Associates by offering to both part-time and full-time positions, above-average wages, great benefits covering each Associate and their eligible dependents and a quality position where everyone is allowed to grow to their fullest potential. Additionally, In-N-Out operates from a strong promote from within culture, which creates a unique opportunity for growth for all of our Associates. All of our In-N-Out Burger Store Managers start out as hourly Associates and are promoted with the help of our ongoing training and development program. One new piece of information I can share with you tonight is that Glassdoor recently named In-N-Out Burger #3 in its annual list of Best Places to Work in the United States, coming behind the consultant firm, Bain & Company, and tech company, Nvidia. This makes In-N-Out Burger not only the best restaurant to work for but also the ONLY restaurant to make it onto this list in the top 50.

Lastly, that third prong of our Mission Statement is fulfilled in several ways. The company operates two foundations: 1. The In-N-Out Burger foundation which focuses on helping abused and neglected children; and 2. the Slave 2 Nothing Foundation dedicated to improving the lives of individuals and families affected by substance abuse and human trafficking. In-N-Out Burger underwrites all of the administrative costs of both of these foundations so that 100% of the money raised is given back to our communities. I invite you to visit the websites for these foundations which I'm showing on the screen to find out more about the great things these foundations do and why and how we support the causes that remain close to the heart of this company. If anyone here tonight visited an In-N-Out Burger in the month of April, you may have noticed our Child Abuse Can Drive set up next to our cash registers. April is National Child Abuse prevention Month and In-N-Out Burger matched donations, up to \$250,000, raised during the month of April for the Child Abuse Can Drive. One of our foundation events is occurring in a couple weeks, on June 12-13th. In-N-Out Burger will be hosting a Virtual 5k to benefit the Slave 2 Nothing Foundation – our event last year raised nearly \$400,000 to help fight addiction and human trafficking in our communities. To participate or to find out more information regarding this event, please visit www.NoDelay5k.com.

#### PROPOSED PROJECT - 10565 SW BEAVERTON HILLSDALE HIGHWAY

Now onto our project. Our ORIGINAL proposed site is shown here - 10565 SW Beaverton Hillsdale Highway, just east of the intersection at 107th Avenue. This property contained 1.2 gross acres, and is a currently operating 3,555 square foot Hawaiian Time BBQ restaurant with drive through service.

Exhibit T Page 8 of 47 Here is the originally proposed site plan, introduced in December, showing our building oriented perpendicular to SW Beaverton Hillsdale Highway, offering 53 parking stalls and a 20 car length drive through queue wrapping around the building. We utilized two dedicated curb cuts on the property – one along SW Beaverton Hillsdale Highway and one along Laurel Avenue. And we proposed to share one driveway with the neighboring Azteca Mexican Restaurant property to the east. Now we did have a healthy and robust Q&A session regarding this original site plan development at the end of the previous meeting that amassed ~500 or so questions, thoughts and comments. Parsing out that feedback, we did hear support and excitement about the prospect of an In-N-Out Burger and positive feedback regarding the potential for good job opportunities. Among the feedback of comments and concerns from that evening, they each generally fell into one of four categories:

- Concern regarding the location and adequacy of the site to handle an anticipated high demand
- Potential impacts to the residential neighborhoods north of the site, including traffic and noise
- Effects of added impact to the neighboring Chick Fil A and the intersection of 107th and Laurel
- Promotion of walkability, sustainability, and landscaping

Over the last several months, the In-N-Out Burger team has taken each of these common themes into careful consideration and modified our development plan to methodically address them in specific ways.

We have come to an agreement to expand the development area to address the concerns of the adequacy of the size of our site. Our new proposal is to develop both the existing Hawaiian Time BBQ restaurant property and the neighboring Azteca Mexican Restaurant property for a total of 2.2 acres, which is nearly double in size of our original proposal. This on its own achieves a number of factors relevant to that first concern regarding the site's ability to handle the demand generated by an In-N-Out Burger restaurant:

 We are reducing the density of businesses within this block of SW Beaverton Hillsdale Highway. The current users (Hawaiian Time BBQ and Azteca) occupy a combined total of nearly 9,600 square feet of high impact restaurant use. Our new development would reduce that by over half. Our 3,885 square foot restaurant will be one single user on this very large 2-acre property. When comparing the total number of trips generated to this site containing two users (one restaurant with a drive through and one sit down restaurant) vs. only one In-N-Out Burger restaurant, the number of daily trips is actually reduced.

2. Our revised development plan keeps the size of our building relatively the same. This means that since we are greatly expanding our development area while the building footprint isn't expanding, the 1 acre of added land is solely dedicated to parking lot, circulation, and added landscaping. This will help further ensure that the project site can self-contain the anticipated demand for our restaurant internally within the open area of the site.

With this expanded development area, we are able to provide 76 parking stalls, which is 23 more stalls than our previous plan. Our drive through queue similarly increased from 20 cars to 32 cars.

Although our original plan did provide enough parking and drive through queue length for a mature, In-N-Out Burger restaurant, we understand that there was some concern that this location might have excess demand and was limited in site area under the original development, if that were to occur. By expanding our development, we have greatly improved the metrics that our site can offer by large percentages, as a direct result of our addressing the comments we heard in the December meeting related to the size and capacity of our former development plan.

	ORIGINAL SITE PLAN	PROPOSED SITE PLAN	PERCENTAGE INCREASE
PARKING	53 STALLS	76 STALLS	43%
DRIVE THRU QUEUE	20 CARS	32 CARS	60%

One of the other items of concern we heard about was from the neighboring residences to the north of the site. This includes residents along Laurel Avenue, 103rd Avenue, and concerned patrons of Kennedy Park just northeast of the site. Our ORIGINAL plan included one curb cut along Laurel Avenue here. This caused concerns to be expressed regarding the potential for added traffic in these residential neighborhoods due to customers entering and/or exiting our site off of Laurel Avenue. In response, our new site plan proposes to limit this curb cut to Emergency Vehicles only, by installing a locked swinging gate with a Knox Box. Regular customer entry and exit will be prohibited from this driveway, which will eliminate any added traffic to Laurel Avenue, 103rd Avenue, and/or the intersection of 107th and Laurel Avenue. Our customer entry and exit is proposed via two existing curb cuts directly on SW Beaverton Hillsdale Highway – the easternmost driveway being a full access driveway and the westernmost being restricted to right in/right out only.

Secondly, regarding noise, our original site plan placed our building as close to Beaverton Hillsdale Highway to limit the noise impact on the residential neighborhoods. Similarly, our new site plan proposes to do the same, however, with the added benefit of placing our building further east, directly behind the office buildings that separate

Exhibit T Page 10 of 47 this site from the residences on Laurel Avenue. These existing office buildings, a proposed property line wall, and landscape planters along the north side of the In-N-Out property limits the amount of impact our restaurant operations will have on the neighborhood north of the site.

Regarding comments related to the neighboring Chick Fil A development to our immediate west, the adjustment made on the previous slide to limit the Laurel Avenue curb cut to Emergency Vehicles only, also provides double-duty in addressing some of these concerns as well. We will not be adding any traffic to Laurel Avenue or the Laurel/107th Avenue intersection where both of Chick Fil A's drive way entrances are located. Our main entrance, the easternmost entrance on Beaverton Hillsdale Highway, is located at the furthest possible point away from any of Chick Fil A's access points. Our building itself has also shifted further east away from the Chick Fil A site, and the abundant circulation within our site will work to keep our customers moving within the interior of our parking lot and not on local roads.

Last but not least, the last category of comments from the December meeting was regarding walkability, sustainability and landscaping. First and foremost, by taking on additional property with our development, we are now proposing additional street frontage dedication and improvements along Beaverton Hillsdale Highway to include a brand new expanded concrete sidewalk, curb and gutter, and ODOT standard bicycle lane along the entire 280' of our property frontage.

Further, one of the most noticeable differences you may have noticed between the two site plans is the different orientation of our building. Whereas our original site plan placed the building perpendicular to Beaverton Hillsdale Highway, our current site plan rotates it so that the main customer entrance is facing the street to maximize the walkability of our development. This allows for pedestrians and bicyclists to enter the restaurant directly from the public right of way without traversing across a parking lot or crossing traffic. Our covered patio area is ample containing 1,227 square feet and we have additional umbrella-covered patio tables. Both patio areas similarly faces the street frontage with easy access from the public sidewalk. We have both short term and long term bike racks conveniently located near the patio and customer entrances. This type of building orientation has been adopted in many cities promoting walkability as it is a welcoming aesthetic facing the street and convenient for customers utilizing these alternate methods of transportation.

Our project development proposes all drought tolerant landscaping, energy efficient mechanical systems, LED lighting, automatic lighting systems that adjust to natural daylight, just to name a few. Per County Development Code the landscaping requirement within the property is 7,990 square feet. Our project exceeds that at a robust 11,250 square feet of landscaping.

#### FREQUENTLY ASKED QUESTIONS

The last presentation portion of our December meeting was dedicated to Frequently Asked Questions that we received up until that point. We touched on a couple key points that are still relevant to our revised project this evening.

#### How will In-N-Out manage the customer demand, especially busy drive through lines?

In-N-Out Burger deploys a unique system of drive thru queue management at each of our stores. A system of site cameras allows our store management to monitor the drive through queue at all times. Associates are deployed to the drive through line to take orders via handheld devices once the line reaches the menu board, in this case at the 9th car. These Associates also can communicate with management via wireless headsets in case additional traffic control management is needed or if a drive through overflow plan needs to be engaged. At this particular site, we have 32 cars available in our drive through lane. If we were ever to exceed 32 cars our Associate can alert management and engage in an overflow plan. As you can see, we can store 55 cars easily on site while still preserving all of our access driveways and parking stalls.

### How will In-N-Out handle the excess demand of opening a new location, similar to what we saw in Keizer?

Excess demand on openings is temporary and is anticipated. In-N-Out Burger prepares and executes Traffic Management Plans in advance of store openings for our restaurants to ensure that the opening remains orderly and does not adversely affect major highways and intersections. A Traffic Management Plan will be created in coordination with County staff, ODOT, Sheriff and police departments, and other stakeholders prior to this location opening. This Management Plan will address traffic control on state and local roads, areas for excess drive through queue storage, and additionally off site parking areas.

# Are you planning other Portland area locations with opening dates close to this location or would this location be the northernmost In-N-Out with the associated traffic/crowding burden?

The Portland market is a vast and diverse area. In-N-Out Burger intends to have multiple stores to serve the customer demand and continues to identify and pursue potential sites for new restaurants to accommodate that demand. We are currently exploring opportunities in Hillsboro, Tualatin, Clackamas County, Oregon City, and Vancouver, Washington. It is far too early to speculate which location may be the first to open in the area but it is very unlikely that this Beaverton location, or any of the locations previously mentioned for that matter, would end up as the only store serving the Portland area as In-N-Out Burger often deploys a multi-store opening strategy in large markets. This strategy is under consideration for Portland as well.

#### CONCLUSION & INTRODUCTION TO LIVE Q&A SECTION

We have reached the end of the presentation portion of the evening. I hope you found it informative and helpful. I will stress that all of the updates, revisions and modifications we have made to our project is a direct result of your active participation in this process. And I can say without a doubt, that your comments have helped to vastly refine and improve our proposed development. You have helped shape what you are seeing today. We appreciate all of your feedback we've received. In-N-Out Burger is dedicated to developing sites that exists in harmony with and in service to the neighboring community.

I'd like to move along to the Q&A section of the evening. Along the bottom of your Zoom screen you will see a button labeled "Q&A" where you can send me your questions and I can read them aloud and answer them as best as I can. Please note that I may filter out certain questions if a topic was previously covered in the presentation or by another user's question. And please also be patient as it may take some time to get through everyone's comments – multiple submissions of the same question make the process difficult to navigate and is unnecessary. So please go ahead and send in the questions you have using that "Q&A" feature Zoom has provided.

I'll mention while you're doing that if you're not comfortable with the live Q&A or if you have additional questions or comments that have not been addressed tonight, I invite you to utilize the email address we have set up to receive neighborhood feedback for our proposed restaurant. The address is here up on your screen INOBeaverton@innout.com and this will be available for your use for this week for additional comments. Lastly, we've prepared some artistic renderings of our proposed project that I will display on a loop on the screen for your enjoyment as well while we conduct the Q&A session.



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# Who Are We?

Harry and Esther Snyder founded In-N-Out Burger in 1948

In-N-Out Burger remains 100% family-owned and operated. No franchises.

Lynsi Snyder, Harry & Esther's granddaughter, is now the President and Owner of In-N-Out Burger, carrying on her grandparent's legacy.



Mission Statement

In-N-Out Burger exists for the purpose of:

1. Providing the freshest, highest quality foods and services for a profit, and a spotless, sparkling environment whereby the customer is our most important asset.

2. Providing a team oriented atmosphere whereby goal-setting and communications exist, and to provide excellent training and development for all of our associates.

3. Assisting all communities in our marketplace to become stronger, safer, and better places to live.



Quality You Can Taste

We are a Family





Supporting Our Community

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Foundations

# www.INO4Kids.org www.Slave2Nothing.org

## June 12-13, 2021 – Virtual 5K Event www.NoDelay5k.com

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The Original Site



10565 S.W. Beaverton Hillsdale Hwy.

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# F.A.Q'S

1. How will In-N-Out manage the customer demand, especially busy drive through lines?







## F.A.Q'S

1. How will In-N-Out manage the customer demand, especially busy drive through lines?

2. How will In-N-Out handle the excess demand of opening a new location, similar to what we saw in Keizer?

3. Are you planning other Portland area locations with opening dates close to this location or would this location be the northernmost In-N-Out with the associated traffic/crowding burden?



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Registration Report			
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Торіс	Webinar ID	Scheduled Time	Duration (minutes)
Virtual Neighborhood Me	898 1782 0711	5/20/2021 18:00	60
Attendee Details			
First Name	Last Name	Email	Registration Time
Christina		gamgene@aol.com	5/5/2021 17:23
Kenneth	Louie	klouie@uwajimaya.com	5/13/2021 14:46
Alysa	Schols	alysa.schols@gmail.com	5/19/2021 8:53
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Jessic	Abel	ditmod@hotmail.com	5/20/2021 18:47
Eric	Gerlach	ericdotger@comcast.net	5/20/2021 19:01
James	Lockington	jim.e.lockington@gmail.com	5/20/2021 19:06

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#	Cuestion	Asker Name	Asker Email	Answer(s)
1	Auction Who is hosting this meeting? Is it a one-way direction?		Asker Entail	
1	who is hosting this meeting: is to one way uncludon:	Anonymous Attendee		
	in view of the second of the Veiror leastion, with traffic backaging accepting two hour wait times and in a smaller Matronalitan area, how one in N.O. to at this area and			
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2	buctor possibly mingate the traine trace will be created nere; in a such a left nere a real, with ress minastructure, narrower streets, and no back up parking lots:		kiteguy.naie@gmail.com	
3	where will employees park it can t be on our jotal streets, nor hearby busineses.	IVIIChael Haale	kiteguy.naie@gmail.com	_
4		matt wong	mwong.wongm@gmail.com	_
5	HOW CAN YOU POSSIBLY MAKE THAT STATEMENT. YOU AKE LYING	Anonymous Attendee		_
6	How can you possibly argue that you will see less trainic with your restaurant?????	Anonymous Attendee		_
7	both current restaurants do are not high volume restaurants	matt wong	mwong.wongm@gmail.com	_
	I'm sorry, but Hawaiian Time and Azteca get virtually no visitors and are businesses in decline. They average, easily a total of 60-70 trips TOTAL over both businesses, whereas			
8	In-n-Out would be more than triple that over the course of a day.	Travis Chesney	travischesney@gmail.com	_
9	So you have room for 100+ parking spots or drive thru spots?	Anonymous Attendee		_
10	get real you liars	Anonymous Attendee		
11	get ready to be sued	Anonymous Attendee		
12	it's not just about parking and space, it's about the increase of traffic to get to the restaurant. i know in and out knows this but doesn't care	matt wong	mwong.wongm@gmail.com	
13	have you noticed your picture is filled with traffic BEFORE InNOut ????	Anonymous Attendee		
14	you will have people turn right onto 107th avenue all day long., more lies	Anonymous Attendee		
15	people heading east and turning north into the parking lot will create lots more traffic	matt wong	mwong.wongm@gmail.com	
16	holy fuck 100 foot bike lane!!!!	Anonymous Attendee		
17	you all should just stop now. it ain't gonna happen	Eric Christenson	bizportland@gmail.com	
	Nice work. You listened and it is clear that you heard. I am happy with the changes you have made. When do you expect this site will reach a "mature" status? Can you talk			
18	briefly about how you will mitigate impacts before this store reaches maturity?	Ross Peterson	ross@accessmobility.us	
	Have numbers for traffic analysis been taken during a more accurate time pre-pandemic or within the last months when traffic has been significantly reduced from normal			-
19	flow?	Travis Chesney	travischesnev@gmail.com	
20	good one on that Keizer has cars packed 100% of the time years later	Anonymous Attendee		-
21	the kaiser store is not on a busy street and is still excessively busy during the weekend	matt wong	mwong.wongm@gmail.com	-
22	list one question how do you clean at night knowing that most of what you are saving is easily disprovable?	Fric Christenson	hiznortland@gmail.com	-
	that one question, now as fou areas at many knowing that most of what you are sufficient approvable.		bizportiand@gmail.com	-
23	number of users will not be reduced between the two exiciting restaurants few neonlenresently use either bussiness. This cannot bannen in neighborhod streets			
25	Name of astronomy with the case on a regular basis. This location will have much bisher demand (more than 50). How will this be bandled by the immediate the case of a regular basis. This location will have much bisher demand (more than 50). How will this be bandled by the immediate the case of a regular basis.	Anonymous Attendee		-
24	Receipt sum has your cars on a regulate basis. This location will have much higher demand (more than 50). How will this be nationally now will only a steric tarrent and end and end of the sterior of th	Ed Trottor	adtrattor@compact not	
24	autos de protecteu: What de une encides temperant as fas as traffis is encorrend? Keizer is still europianeires traffis 1 year later	Anonymous Attendes	eurotter@concast.net	
25	What do you consider temporary, as far as trainers concerneur. Kerzer is sum experiencing trainer i year later			
26	where are the other too history stark up. Only 55 cars will not the property.	Sally	sallymosuu@gmail.com	
27		Michael Gifford	mg1469@easystreet.net	_
28	Sounds like you've put in a lot or work on the plan. It looks good but we still NEED to see the traffic plan BEFORE I feel I could support it.	SCOTT DAVIS	sdavispdx@gmail.com	_
29	Is the newly oriented building a larger footprint of the building than the previous building that was perpendicular to BHH?	Jennifer Hockema	jenhockema@hotmail.com	_
30	have a question	Jackson Wood	jackson.wood@nike.com	_
31	How many visits do you estimate in n out to have per day? What are your estimates of visits currently to the two sites?	michelle crocker	mccrocker@hotmail.com	_
	A concern is not just overflow of cars, but he Keizer location had hordes of people standing in line under tents outside the building (before pandemic). How is this to be			
32	handled?	Jennifer Hockema	jenhockema@hotmail.com	_
	Need no comment now. Thank You Cassie Yee! Very well done and I look forward to further information and updates. If I can be of any other assistance as to the feedback or			
33	concerns, please let me know. Stan Houseman CPO 3	Stan Houseman	Stan.Houseman@yahoo.com	
34	Where is the "overflow" parking?	Jennifer Hockema	jenhockema@hotmail.com	
	Your overflow beyond 32 cars does not take into consideration customers utilizing the western-most entrance - will this entrance be cut-off during overflow? Numbers of			
35	other IN-N-OUT's (including Pleasant Hill and San Diego) see numbers in the 100-200 counts per hour.	Travis Chesney	travischesney@gmail.com	
	own a multi plex on laurel. So happy to see emergency access only to Laurel! But are you folks planning to police/monitor the parking along Laurel, especially during the			
36	starup surge?	Tod Johnson	fastwater123@gmail.com	
37	Will you be taking away a lane from BH Hwy for sidewalk and bike lanes?	Anonymous Attendee		
38	How late will this location be open?	Anonymous Attendee		
50	Beaverton Hillsdale Huw is very hus, it houses other businesses such as the Kaiser Perm medical/dental clinic. How is the traffic to be managed for nationations truing to get			
20	through to the clinic?	lennifer Hockema	ienhockema@hotmail.com	
35	An object to the owner.	Travis Chesney	travischesnev@gmail.com	
40	The energy parts to immune the trains into the edsterninition to unversion as this would be another significant potential to solwowing and Bh Hwy	Tod Johnson	factwater122@gmail.com	
41	• Is a forsing way access waiking to reminely park, so should be intallitating as the secondary country rodu its. Intalks: Thank way for your processition. This child one on a deforce adopted a concerning and park. This is a citize to explore a concerning the secondary country rodu its. This is a citize to explore a concerning the secondary country rodu its. This is a citize to explore a concerning the secondary country rodu its. This is a citize to explore a concerning the secondary country rodu its. This is a citize to explore a concerning the secondary country rodu its. This is a citize to explore a concerning the secondary country of the secondary country rodu its. This is a citize to explore a concerning the secondary country of		iastwater 125@gman.com	
	main you to you presentation. This suit does not doutless deeplade decess points for entry and ext. This is a right cum only ext. How do you plan to mitigate excess the file action of the bishest traveled action to entry and extra the science of the bishest traveled actions to entry the science of the bishest traveled actions to entry the science of the bishest traveled actions to entry the science of the bishest traveled actions to entry the science of the bishest traveled actions the science of the bishest traveled actions the bishest traveled actions the science of the bishest traveled actions the bishest traveled	Devid C		
42	uand noni uns siter onn is one of the ingnest traveled roads in Beaverton that cannot sustain the volume of a nigh volume store.	David G	giass.david@yanoo.com	

43	You mentioned the Laurel entrance is for emergency vehicles only. Will garbage and delivery service also be from Laurel or will it go through from BHH?	Jennifer Hockema	jenhockema@hotmail.com
44	Is there a guarantee that the North gate will be closed at all times except for emergencies?	Anonymous Attendee	
	customers turnig left out of the restaurants will not be able to do so without creating cross traffic. and the same for those coming from the west turning across Beaverton-		
45	Hillsdale Hwy. this will create gridlock.	Anonymous Attendee	
46	The new site plan doesn't include the the right hand side of the azteca lot. (where there is a row of parking spots). Does the INO property extend to the row of parking spots?	Anonymous Attendee	
	Right now all GPS apps are bringing heavy traffic into our residential street of SW 96th Ave, which is a few streets east of your proposed location. We anticipate even more		
47	trafiic coming because of your restaurant. How will you address our issues if we are few streets away?	Anonymous Attendee	
48	Will you put any inititatives in place to reduce the littering burden in the nearby neighborhoods?	Anonymous Attendee	
49	Trip generation data from California stores? Or is there data from the Oregon stores too?	Jennifer Hockema	jenhockema@hotmail.com
50	Again. I have a hard time imagining a traffic plan and feel we can't proceeded without that FIRST.	SCOTT DAVIS	sdavispdx@gmail.com
51	lots of bad comments apparently	matt wong	mwong.wongm@gmail.com
52	have you already done traffic count during peak and non-peak hours? if yes, what were the results	Anonymous Attendee	
	From my discussions with kaizers residents The parking is not the issue. It's the lineup that causes problems. How will you work to address traffic concerns in the area		
53	especially in front of our beloved hospital and Jesuit highschool down the street.	Jackson Wood	jackson.wood@nike.com
54	has any community successfully stopped an in n out project?	Michael Gifford	mg1469@easystreet.net
55	What prompted you to choose this site where there is already traffic from the Chick-Fil-A?	Ilva Metlane	marta241@smapdx.org
56	Is the store in Keizer, OR considered "mature"?	Jennifer Hockema	jenhockema@hotmail.com
	You have clearly not ever observed how little traffic there is to Hawaiian Time and the next-door Azteca sit-down restaurants. How can you possibly argue that traffic will be		
57	reduced? One is a failing drive thru, the other is a barely surviving restaurant.	Anonymous Attendee	
	Have you considered the site across Beaverton Hillsdale Highway by Bi-Mart which is a much larger and less congested space, with a road that is far less utilized than		
58	Beaverton Hillsdale Highway itself? Why such a congested spot specifically?	Rebecca Waker	beccaeferguson@gmail.com
59	The vegetation in the drawing is lovely, but would you be open to using plants native to the NW area of Oregon, zone 8?	Lesley Herren	lesleyhryn@gmail.com
60	Have you considered other sites such as Allen Blvd and 217?	Anonymous Attendee	
61	It is likely much traffic will be from 217 reequiring a left turn in to INO. How will INO not block BHH and Uwajimaya entrance.	Ed Trotter	edtrotter@comcast.net
	I have a concern about the exits. By cutting off an exit out of Laurel, the only way to go east on Beaverton-Hillsdale hiway is the one left-turn lane on the east end of your		
	property. How will traffic affect the ability to turn left at this exit? Will this create a backup into the parking lot of people wanting to turn left to go east on B-H Hiway? What		
62	is the distance between the second (west) entrance to the drive-through Lane? Will this cause a back-up on B-H Hiway?	Anonymous Attendee	
63	Will your traffic study be made available to the public?	Sharon Selberg	Sharon.selberg@gmail.com
	this site will block two bus stops, possibly two traffic lights, and and make entry into busineses east of the entry. The hwy wil be completely gridlocked therby effecting the		
64	bottom line for my busines	Anonymous Attendee	
65	Have you ACTUALLY sat on the corner of 10/ and BHH to see traffic during lunch on a regular work day and during peak traffic (4pm to 7pm)? If not, why not?	Anonymous Attendee	
66	What will you do to stop your customers from passing through neighborhood streets to get to your location?	Ilva Metlane	marta241@smapdx.org
67	What is that traffic plan on BHH into the proposed site?	Anonymous Attendee	
68	The entry is right turn only heading westbound. How do you plan to manage traffic from this perspective?	David G	glass.david@yahoo.com
69	Why not use the large vacant property at 118/0 SW Beaverton Hwy? It is large, has adequate parking, and there would be several possible exits from the property.	Anonymous Attendee	
/0	Will you be providing a list of the questions from this meeting???	Anonymous Attendee	
71	Have you gotten approval from the nearby residents of nearby streets? Like a singed approval	Ilva Metlane	marta241@smapdx.org
72	when people are driving Eastbound from 217 Beaverton Hillsdale Highway, how will the enter the facility?	Anonymous Attendee	
73	You can not compare Azteca and Hawalian lime to in N Out. What are you going to do with Beav Hillsdale traffic	Sally	sallymo500@gmail.com
	I mis plan will grue lock Beaverton Hillsdale Hwy going both ways and will make is difficult to the neighborhood to travel on Beaverton Hillsdale Hwy along with the businesses		
74	errectee. How can you mutgate this?	Anonymous Attendee	
75	You re using data that is not pertinent to these two businesses and surrounding populations	David G	glass.david@yahoo.com
76	Lorrecting you. Keizer impeded I-5 for months!	Anonymous Attendee	
77	You do not have indisputable evidence that you will reduce trattic. It is lies. You have no empirical data to support the change in traffic.	Eric Unristenson	bizportiand@gmail.com
78	what neignboring biocks ao you propose to use?	michelle crocker	mccrocker@hotmail.com
79	What activities will occur atter 10 pm and before 7 am, which are typical "quiet hours"?	Terry Lawler	tessveggie55@gmail.com
80	How will you mitigate nightime nuisance noise/lighting?	Terry Lawler	tessveggie55@gmail.com
81	nothing you do will stop from this from running the traffic flow for comuters, residents, ambulances, fire trucks, school buss, bicycles.	Anonymous Attendee	
82	I am an employee at Hawain i ime, will we be notified of new ownership ?	Anonymous Attendee	
83	What time do you consider the peak hour with maximum number of cars?	Christina	gamgene@aol.com
84	[hey are asking to see your magic traffic plan]	SCOTT DAVIS	sdavispdx@gmail.com
85	I bet you use all /3 parking slots and then some! :)	Jenniter Hockema	Jenhockema@hotmail.com
86	Except your 73 parking spaces will be taken a dozen or so employee cars so in actuality there are maybe 55 spaces.	David G	glass.david@yahoo.com
	No questions. Just wanted to say your presentation and handling tough questions was top notch. To handle all this solo was totally impressive! I'm on the board of the		
87	Beaverton neighborhood to your south and rep to the Beaverton city committee representing all 11 neighborhoods.	Richard Skayhan	ricks@lacoinsurance.com
88	Your drawing appeared to show a bicycle lane only along the front of In N Out - am I missing something?	Christina	gamgene@aol.com

set traffic car pat is Lard and walk due to the proof type layed for the far value of clave paties paties and the sectors of the sector of the sectors of the secto	Image: Section of the section of the section of the first price of the first price of the section of the DD section of the section of the section of the section of the DD section of the DD section of the sect	89 Where will construction vehicles park?	Alysa Schols	alysa.schols@gmail.com
30)     Solar traffic cap ark an unal and walk onto the property, the policy barged for the division from the most one to move the accel for the division for the accel for the acce	ATE       Instrume and used used use out on park to accurate and use out on the series of the out of the model of the mod			
In we will you make a digetoradist star. Price your store is billing, how more point of base start (noning door flewer to Hilds): Would in -O tab bay for the disc of the disc	In we all your table neglections sheet, first, your table in your table in your table neglection we and the exercise of the Your table in your tabl	90 Foot traffic can park on Laurel and walk onto the property, the police helped for the first while of Chic-Fil-A opening. I am sure they would be involved in this event too	Jennifer Hockema	jenhockema@hotmail.com
spectral can word in zool appear apper with many children to take 300 de best taffic coming down fazewer tan Hildred. Word In-Oct ta egoen ta down         max	<ul> <li>Sected for word does don't BM-due get at gask with many cloker to take 100°t to bast 120°C comig does Baserton Hillsdar. Word in Social Faceboy</li> <li>Sected for any discretised for social faceboy does does have for the faceboy of the faceboy. Sected for any discretised for any discretis discretised for any discretised for any discretis discreti</li></ul>	How will you make neighborhoods safer. First, your stores in Salinas, Livermore and Mountain View all see an average of 80-100 visits per hour. In this area, it would be		
s1     Level humps and its consults to surrounding and tegrated by maint raths (from 2)     This is a large of humps and its consults to surrounding and type is how start outputs of the grant consults of the grant consult of the grant consult digrant consults of the grant consult digrant consult digrant consults of the grant consult digrant consults of the grant consult digrant consult digrant consults of the grant consult digrant consult digrant consult digrant consult digrant consults digrant consults digrant consult digrant consult digrant consult digrant consult digrant consult digrant consults di	3)       parebuspectadies parebuspectadies and its consults to according any many space base and to consult to according any many space base and to consult to according any space base and to according and to according and to according any space base and to according and to	expected cars would race down 102nd ave past a park with many children to take 103rd to beat traffic coming down Beaverton Hillsdale. Would In-n-Out be open to adding		
□         ○         Online in a part or detty, of his control carding for this location carding of more concret.         Notice is a part of detty, of his control carding for this location carding of more concret.         Notice is a part of detty, of his control carding for this location carding of more concret.         Notice is a part of detty, of his control carding for this location carding of more concret.         Notice is a part of detty, of his control carding for this location carding of more concret.         Notice is a part of detty, of his control carding for this location carding of more concret.         Notice is a part of detty, of his control carding for this location carding of more concret.         Notice is a part of detty, of his control carding for this location carding for this location of his control.         Notice is a part of detty, of his location of his control carding for this location of his control carding for his location of his control carding for this location of his control carding for his location of his location	□         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □         □<         □<         □<         □<         □<         □<         □<         □<         □<         □<         □<         □<         □<         □< <th□<< th=""> <th□<< th=""> <th□<< th=""></th□<<></th□<<></th□<<>	91 speed bumps and lit crosswalks to surrounding areas impacted by their traffic flow?	Travis Chesney	travischesney@gmail.com
63     Will three be gains take trees, should, something marky to look at instance of the memory and the expect of the expect of memory and the expect of the expect	Sp         With the be a plan to a dree, should, somethy prestry to took at inside of more concret.         New Solids         Methods	92 Will you announce the Grand Opening for this location outside of Oregon?	Christina	gamgene@aol.com
34         by there againstice that the horth gate will be closed at all times except for emergencies?         Applies of many many many setting of the closed at all times except for emergencies?         Applies of many many many setting of the closed at all times except for emergencies?         Applies of many many many setting of the closed at all times except for emergencies?         Applies of many many many setting of the closed at all times except for emergencies?         Applies of the closed at all times except for emergencies?         Applies of the closed at all times except for emergencies?         Applies of the closed at all times except for emergencies?         Applies of the closed at all times except for emergencies?         Applies of the closed at all times except for emergencies?         Applies of the closed at all times except for emergencies?         Applies of the closed at all times except for emergencies?         Applies of the closed at all times except for emergencies?         Applies of the closed at all times except for emergencies?         Applies of the closed at all times except for emergencies?         Applies of the closed at all times except for emergencies?         Applies of the closed at all times except for emergencies?         Applies of the closed at all times except for emergencies?         Applies of the closed at all times except for emergencies?         Applies of the closed at all times except for emergencies?         Applies of the closed at all times except for emergencies?         Applies of the closed at all times except for emergencies?         Applies of the closed at all times except for emergencies?         Applies of the closed at all times except for emergenclosed at all times except fore all times except for emergencies	Set betwee a parameter has been place will be created or memory created and the set of a provide of the set o	93 Will there be a plan to add trees, shrubs, something pretty to look at instead of more concrete.	Nokia 3.1 Plus	leohoward2585@gmail.com
5     Into many plots with be related?     Anonymous Attendee       6     Bits or any society days of the anomic of difficience or any sory premises and the program attendee     Christia       7     Minit emission standards have you studied for the anomic of difficience or any sory premises and the program attendee     Christia       8     Bits of any sort word and keep relation standards have you studied for the anomic of difficience or any society relations attendee     Anonymous Attendee       9     Wils on program attendee     Anonymous Attendee       9     Wils on program attendee     Anonymous Attendee       9     Wils on program attendee     Anonymous Attendee       10     State of 00 to 10 to 10 conders and the society attendee     Anonymous Attendee       10     State of 00 to 10 to 10 conders and the society attendee     Anonymous Attendee       10     Ditto Curring the Bits and the anomic of the anomic of the anomic of under the patient attendee     Anonymous Attendee       10     Ditto Curring the Bits and the anomic of under the patient attendee     Anonymous Attendee       10     Ditto Curring the Bits and the anomic of under the patient attendee     Anonymous Attendee       10     Ditto Curring the Bits and the anomic of the anomic of under the patient attendee and wavels the Bits and the anomic attendee     Anonymous Attendee       10     Ditto Curring the Bits and the anomic on any any song this Bits anomic on anomic anomic anomic and anglibotohodo?	Solver many bis will be created?     Amore the second of the	94 Is there a guarantee that the North gate will be closed at all times except for emergencies?	Alysa Schols	alysa.schols@gmail.com
59 Dip use at leading set you hour a sporteet. You is but a resterior is allowed in the 20 am     Saly	Set Dispositioning encoding encoding encoding and encoderation infiguration on generals at one time?     Subj     subj<	95 How many jobs will be created?	Anonymous Attendee	
97     What emission standards have you studied to the anomat of tilling cases any our premises at one time?     Choises     pangene@bail.com       98     With emission standards     Anonymous Attendee     Anonymous Attendee       99     With you gad any infitial state with it gads, goot field, phyground, schoo busis route, do gad and state with a park, goot field, phyground, schoo busis route, do gad and state with the state of the state with a park, goot field, phyground, schoo busis route, do gad and state with a park, goot field, phyground, schoo busis route, do gad and state with the state of the state with a park, goot field, phyground, schoo busis route, do gad and state with the state of the state with a park, goot field, phyground, schoo busis route, do gad and state with the state of the state with a park, goot field, phyground, schoo busis route, do gad and state with the state with the state and the state and the state and the state with the state and the state with the state and the state state and the state and the state and the state and the state and	17     What entition is indered here should for the anound of alling close oy up greenies at to time?     Choising     greenee@all.com       180     1000 can not control and leader drews in gal, jost field definition of this instance. Anound the should be plant in the can not control and leader drews in gal, jost field definition of this instance.     Anound a control and leader drews in gal, jost field definition of this instance.     Anound a control and leader drews in gal, jost field definition of this instance.     Anound a control and leader drews in gal, jost field definition of this instance.     Anound a control and leader drews in gal, jost field definition of this instance.     Anound a control and leader drews in gal, jost field definition of this instance.     Anound a control and leader drews in gal, jost field definition of this instance.       10     Instance draw draw draw draw draw draw and leader paperly. Hence my question and the ore about colling owe a lead of BH.     Anound Activities     Anound Activities       10     Anound a control with the overlay of the HO date plan on the existing map in an aligned properly. Hence my question and the ore about colling owe a lead of BH.     Anound Activities     Anound Activities       10     Anound a control with the overlay of the HO date plan on the existing owe a lead of BH.     Anound Activities     Anound Activities       10     May or oggli to consist in the instance of the control registry and another definities of the another definities	96 Did you already get your hours approved. You a butt a residential neighborhood snd I believe you can not stay open until 1:30 am	Sally	sallymo500@gmail.com
800 - 1000 cars tarel 18/st Ave already, it is an official dedicated low-traffic street by Washington Courty, we estimate double this volume if this restaurant is allowed to be         800-1000 cars tarel 18/st Ave already, it is an official dedicated low-traffic street by Washington Courty, we estimate double this volume if this restaurant is allowed to be         800-1000 cars tarel 18/st Ave already, it is an official dedicated low-traffic street by Washington Courty, we estimate double this volume if this restaurant is allowed to be         800-1000 cars tarel 18/st Ave already, it is an official dedicated low-traffic street by Washington Courty, we estimate double this volume if this restaurant is allowed to be         800-1000 cars tarel 18/st Ave already.         800-1000 cars tare already.         800-10	880 - 1000 can travel 15tri Ave alredy. It is an official dedicated low traffic tracet by Washington County, we estimate double this volume if this retainant is allowed to be advanced and large traffic of this street with gark, spont field, plagmont, street by Washington County and gallers, and bian?         Analymont, Attended advanced a	97 What emission standards have you studied for the amount of idling cars on your premises at one time?	Christina	gamgene@aol.com
Bor. 1000 cars treated 1000 days already, it is an official dedicated low-traffer street by Valanington County, we estimate double into valane of this estaturant is allowed to be approved that already is a street of all streets in the marray meighton doubs?         Apple 3 Sholts	BD         -100 car to well add, we leady, it is a official decication warding care by paycond, should be trans outs it is discuss it is anow to mail a decication with the analytic paycond, should be trans. It is a discuss it is anow to mail a decication with the analytic paycond, should be trans. It is a discuss it is anow that are able to accomplate that should be trans. It is a discuss it is an advect that analytic paycond, should be trans. It is a discuss it is an advect to advect that are able to accomplate that are abl			
99     bill how any yea carbo land sep farfield of this street wink ipps, sport field, spinground, cheed base?     Anya Schols     alea.achols@gmail.com       90     Will you put minitations on place to reduce the times build more analy neighborhood?     Anya Schols     alea.achols@gmail.com       910     Will you put minitations on place to reduce the times building range is not aligned names and the scale down that are able to accomodate that type of taffic you     Anonymous Attendee     Anonymous Attendee       910     Comment: Think the overlay of the NO site align on the exciling range is not aligned names question and the one about Taking over a land of Bill     Anonymous Attendee     Estimater 22.8 gmail.com       910     Lot for the overlay of the NO site align on the exciling range is not aligned names question and the one about Taking over a land of Bill     Anonymous Attendee     Estimater 22.8 gmail.com       910     Lot for the overlay of the NO site align on the exciling range is not aligned names question and the one about Taking over a land of Bill     Anonymous Attendee     Estimater 22.8 gmail.com       910     Lot for the overlay of the NO site align on the exciling range is not aligned names.     Anonymous Attendee     Anonymous Attendee       910     Lot for the overlay of the NO site aligned names about the overlay of the NO site aligned names.     Anonymous Attendee     Anonymous Attendee       910     Lot good is the owned is a street where aligned names.     Anonymous Attendee     Anonymous Attendee       911     Doe site Anonym	Built have can you control and keep traffic of this street whit i part, ports field, plagrands, school kuss rout, dig walers, and blag?     Anonymou Attendee       Will how can you control and keep traffic of this street whit i part, ports field, plagrands, school kuss rout, dig walers, and blag?     Apis School     Apis School       Will how can you control and keep traffic of this street will be an of the citility range blands in the able to accomplate that type of traffic school     Anonymou Attendee       Street of this routing the able to chool the citility range bland in the able to accomplate that type of traffic school     Anonymou Attendee       Street of this routing the able to chool the citility range bland in the able to accomplate that type of traffic school     Anonymou Attendee       Street of this routing the able to control the citility range bland in the able to accomplate that type of traffic school     Anonymou Attendee       Street of the able to control the citility range bland in the able to accomplate that type of traffic school     Anonymou Attendee       Street of the able to control the citility range bland in the able to control the able to accomplate that type of traffic school     Anonymou Attendee       Street of the able to control the citility range bland in the able to accomplate that type of traffic school     Anonymou Attendee       Street of the able to control the able to accomplate that the able to accomplate that type of traffic school     Anonymou Attendee       Street of the able to control the able to accomplate that the able to accomplate that the able to accomplate the able to accomplate that the able to accomplate that the able to acco	800 - 1000 cars travel 103rd Ave already. it is an official dedicated low-traffic street by Washington County. we estimate double this volume if this restaurant is allowed to be		
9         Will you put any initiatives in place to relace the fitting burster in the narray neighborhood?         App. Shols.         alpsa. Shols.         al	92     Wily out any intributions in place to reduce the littering burstein in the nerby neglebondors?     Ansi Schols     ays action/@gmail.com       100     will you put any intributions of MV/Singlebond Three and ether areas MV/Singlebond Singlebondors?     Ansaymous Attendee     Ansaymous Attendee       101     Comment. 1 think three outputs of the insisting maps in the adjeed grapping, latent the part of the origin the proximal and the schedule grapping and the part of the part of the origin the proximal and the schedule grapping and the insisting maps in the base default and the schedule grapping and the part of the origin the proximal and the schedule grapping and the schedule grapping and the schedule grapping and the part of the schedule grapping and the schedule grapping and the schedule grapping and the part of the schedule grapping and the schedule grapping and the schedule grapping and the part of the schedule grapping and the schedule grapping and the part of the schedule grapping and the part of the schedule grapping and the schedule	98 built, how can you control and keep traffic off this street with it park, sports field, playground, school buss route, dog walkers, and bikes?	Anonymous Attendee	
Wry that location of PTNT-Hillsdale? There are other areas in DPTNT/Equity where farger businesses have closed down that are able to accompate that type of traffic such         Anonymous Attendee           100 as the old by TV US of Chatskie (off Cascade Way neer 232)?         Anonymous Attendee         Anonymous Attendee           101 Comment: I think the overlay of the INO site glan on the existing map is not aligned properly. Hence my question and he one about taking over a land of BHH         Anonymous Attendee           102 Will the new readitions and notes from this meeting be available for people to view who were unable to join this meeting?         Anonymous Attendee           103 List Collectify, the emergency view close gas to taking with access around on under the gas?         Total Johnson         fastwater 23@gmail.com           104 Are you going to consider the current employees at Attexa and thewalin Time, that the will financially burden them with AD DBP????         Notes 3 List Collectify         Anonymous Attendee           106 Wire view owark to pub financially burden them with AD DBP???         Catera heno@co washingen.com         Anonymous Attendee           107 Long out show more four alloss which deput different perspectives of the building and site?         Anonymous Attendee         Anonymous Attendee           108 Wire view and pub financial to "nature??         Catera heno@co washinggbin rot.us         Anonymous Attendee           108 Wire view and pub financial to the country and the city, what is it about this location that makes you want to pub financian         Anonymous Attendee	Wry that location of 9714-will-bidle? There are other areas in 9714/Tigred where larger businesses have closed down that are able to accomodate that type of traffic sun         Anonymous Attendee           100         Internet of 0.9 's' us of ordering of Cacaceke Way need and a larger groups', Hence my question and the one about taking over a land of 8141         Anonymous Attendee           101         Comment: I think the overlag of the INO site plan on the existing maps is not aligned groups', Hence my question and the one about taking over a land of 8141         Anonymous Attendee           102         Witth the neering of the INO site plan on the existing maps is not aligned groups', Hence my question and the one about taking over a land of 8141         Anonymous Attendee           103         Last data fifted the current employees at Africa and Hawakan Time, that this will fill macukly buried the survale fille the survale of t	99 Will you put any inititatives in place to reduce the littering burden in the nearby neighborhoods?	Alvsa Schols	alvsa.schols@gmail.com
100       set the diff top'r Us or Orchards (off Cascade Way neer 2172       Anonymous Attendee         101       Comment: Hink the overlay of the INO site plan on the existing rang is not aligned properly. Hence my question and the one about taking over a land of BHH       Anonymous Attendee         102       Will be new renditions and notes from this meeting?       Tod Johnson       Estwert 72.38 gynali.com         103       Juit to clarify, the enregrey access pet to Lurd will not allow podestrian access around or under the gat?       Notal Set 10.5       Notal Set 10.5         103       you cant argue that this location lack the infrastructure of the keter locale. how can you say this will not adversly affect the surroundind busiess and neighborhood?       Anonymous Attendee         106       Wind do way more of your sites witch degit different prespectives of the building and site?       Anonymous Attendee         106       Wind way want to pub forward with his plan with a much neighborhood opposition? I thought the wovers cared about communit?       Anonymous Attendee         106       New will constructure witches part?       Anonymous Attendee       Inonymous Attendee         110       Design forhood, on the boundary line between the county and the site, wow and to bey you properties to make it work?       Anonymous Attendee         110       Design forhood, on the boundary line between the county and the site work?       Anonymous Attendee         110       Desin for adverse sit formonity if the adverse t	1100       according of English (of Cassek Way net 217)?       According of BHH       According of BHH         1101       Comment: Think the overlay of the NO step in on the existing in prior algoing or progrit. Way have requestion and the one shout taking over a land of BHH       According of BHH         1101       Comment: Think the overlay of the NO step in on the existing in prior algoing or progrit. Way have requestion and the one shout taking over a land of BHH       According on Attended         1101       Ust to dirft, the engregory access gets to turel will not allow beddy affect the surrounding busies and neighborhood?       According on Attended         1101       Cas you show more of your allogs which depart progrition? This all in a devely affect the surrounding busies and neighborhood?       According on Attended         1101       Cas you show more of your allogs which depart progrition? This all information? It is different forny our the cas you the cas you show more of your allogs which depart progrition? This all fifterent forny our the cas you th	Why that location off BVTN-Hillsdale? There are other areas in BVTN/Tigard where larger businesses have closed down that are able to accomodate that type of traffic such	/	,
1         Description         Improvement         Imp	abs/doc/matrix         bits/doc/matrix         bits/doc/matrix         bits/doc/matrix           101         Comment:         think the overging with this location?         bits/doc/matrix         bits/doc/matrix           102         Comment:         think the overging with this location?         bits/doc/matrix         bits/doc/matrix <t< td=""><td>100 as the old Toxs 'r Us or Orchards (off Cascade Way near 217)?</td><td>Anonymous Attendee</td><td></td></t<>	100 as the old Toxs 'r Us or Orchards (off Cascade Way near 217)?	Anonymous Attendee	
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10b       Note with Construction entropy       Anyse stubs       anyse stubs       anyse stubs         10b       How ing does it "normally" take for your restaurants to "mature"???       Anonymous Attendee         110       heightforhood, on the boundary line between the county and the city, what is it about this location? It is different from your other locations, being on the edge of the       Jennifer Hockema       Jennifer Hockema       Jennifer Hockema         111       Does it & Out provide special services for delivery service line (EroUbLUP 2 Parking spots dedicated to them?       Nathan       nathan@finestramedia.com         Kaiser Clinic receives large volume of car traffic & abulances. nor can they afford people paking in their already busy lot. this is a public health mater. how can you assure       Anonymous Attendee         114       How do woll you ensure there will be visibility to those turning left onto BHH that they can see over the cars blocking up the right lane?       Ina Metane       matzbale(Smgda.cog         117       Up to the Pandemic, this jain should be delayed to see and document post apndemic levels.       Anonymous Attendee       Im corgo best of wind group and the size aputent in the size aputent is aputent in the size aputent in the size aputent is aputent in the s	100       Inter win Construction       Anonymous Attendee         100       Inter win Construction       Anonymous Attendee         110       Inter win Construction       Anonymous Attendee         1110       Destination       Inter win Construction       Inter win Construction         1110       Destination       Anonymous Attendee       Inter win Construction         1110       Destination       Anonymous Attendee       Anonymous Attendee         1111       Destination       Maximum attendee       Anonymous Attendee         1111       Destination       Maximum attendee       Anonymous Attendee         112       Due to the Pandemit, this plan should be delayed to see and document post appreciate as essent post as anonymous Attendee       Anonymous Attendee	100 Can you snow more or your shades which a depict american perspectives or the building and site?	Alves Sebels	cetera_nemo@co.washington.or.us
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134	You still have not answered how we get copies of the documents that will be submitted?	michelle crocker	mccrocker@hotmail.com
135	How long (number of days) do you consider your Grand Opening?	Christina	gamgene@aol.com
136	Is there plans for a "pass-through" study to investigate how visitors will impact residential streets?	Travis Chesney	travischesney@gmail.com
	What is the volume of traffic down B-H Hwy at present? wht was it befor the Pndemic? presently the right Ine headed West id full due to the existing Chi-fil-A. Im concerned		
137	as a commuter through this area that I will not able to get by this location.	Anonymous Attendee	
138	County contact is Melissa de Lyser	David G	glass.david@yahoo.com
139	Gorgous store! Can't wait to order my first Double Double there!	Darla Krusee	satjan111-misc@yahoo.com
140	Where is the distribution center that will service this store???	Anonymous Attendee	
141	Could you give this info out: https://www.co.washington.or.us/CAO/CPO/CPO3/index.cfm	Stan Houseman	Stan.Houseman@yahoo.com
142	A Public Notice will be sent to everyone within 500' of the site once a land use application is accepted for review.	Cetera Heino	cetera_heino@co.washington.or.us
143	Except people from all over are asking and participating.	Stan Houseman	Stan.Houseman@yahoo.com
144	How will you ensure there will be visibility to those turning left onto BHH that they can see over the cars blocking up the right lane?	Ilva Metlane	marta241@smapdx.org
	i saw the cars backed up waiting for the Keisar Location. This type of traffic will not be possible without causing a traffic knott, affecting every buisness nd residnet in the		
145	area. it will even cuase trficc problems in Beaverton.	Anonymous Attendee	
146	Will you be putting in a light at the left turn entry exit access point?	David G	glass.david@yahoo.com
147	my emission question: what emission standards have you studies for the amount of idling cars at one time.	Christina	gamgene@aol.com
	Thank You Very Much!		
148	Awsome job!	Stan Houseman	Stan.Houseman@yahoo.com
149	Please hyperlink the county link	David G	glass.david@yahoo.com
150	If there is a majority negative response from the residents of the nearby neighborhood, are you still going to build the building?	Anonymous Attendee	
151	l grew up in So Cal and been to dozens of stores, traffic is a major concern no matter the location	David G	glass.david@yahoo.com
152	During the last meeting you noted that INO can process 2-3 cars per minute (120-180 cars per hour). How do you now claim 60/hour is accurate?	Ed Trotter	edtrotter@comcast.net
153	You can put the hyperlink in the comments section.	David G	glass.david@yahoo.com
154	On the CPO3 site, The meeting attachments do not show your updated plan with Azteca involved.	Anonymous Attendee	
155	What are you going to do about all of the added pollution in the area from cars idling?	Alysa Schols	alysa.schols@gmail.com
156	In response to the person's question about community opposition and your plan to STILL move forward, not very community friendly!!	Anonymous Attendee	
157	how many cars pass through the Keizer location per day?	Anonymous Attendee	
158	Shouldn't you have the average car count for Keizer prepared for this meeting to address our traffic concerns??	Anonymous Attendee	
159	Thank you.	Ed Trotter	edtrotter@comcast.net

WASHINGTON COUNTY Dept. of Land Use & Transportation Planning and Development Services Current Planning 155 N. 1 st Avenue, #350-13 Hillsboro, OR 97124 Ph. (503) 846-8761 Fax (503) 846-2908 http://www.co.washington.or.us	CITY: PLEASE RETURN THIS FORM TO <u>APPLICANT</u> : COMPANY: <u>In-N-Out Burgers, a California corporation</u> CONTACT: <u>Cassie Ruiz</u> ADDRESS: <u>13502 Hamburger Lane</u> Baldwin Park, CA 91706 PHONE: (626)260-4265 EMAIL: <u>caruiz@innout.com</u>
X ATTENTION:	OWNER(S):
CITY OF Beaverton	NAME: Lynn Irene Angel Family Ltd. Partner
Planning Manager	ADDRESS: 550 SW Park Ave.
5 5	Portland, OR 97205
	PHONE: (503)407-7707
	Property Desc.: Tax Map(s): Lot Number(s): 
	<u>1S114BC02401, 1S114B</u> C02
	Site Size: 2.243 acres
	Site Address: <u>10565 &amp; 10505 SW Beaverton Hillsdale Hig</u> hway Nearest cross street (or directions to site): SW Beaverton Hillsdale Hwy & SW 107th
PROPOSED PROJECT NAME: <u>In-N-Out Burg</u> PROPOSED DEVELOPMENT ACTION: (PARTITION, SUBI Type III Development Application 	er DIVISION, DEVELOPMENT REVIEW, AND GENERAL DESCRIPTION OF PROJECT) unt PROPOSED USE A single restaurant use with d
PROPOSED PROJECT NAME:       In-N-Out Burg         PROPOSED DEVELOPMENT ACTION: (PARTITION, SUBIL         Type III Development Application         EXISTING USE:       One drive through restaura         and one sit-down restaurant         IF RESIDENTIAL:       IF NON-RESINGUE FAM.         NO. OF DWELLING UNITS:       TYPE OF USE:         SINGLE FAM.       MULTI-FAM.	er         DIVISION, DEVELOPMENT REVIEW, AND GENERAL DESCRIPTION OF PROJECT)         ant       PROPOSED USE         A single restaurant use with d         through service and outdoor se         DENTIAL:         estaurant         ROSS FLOOR AREA)         3,885
PROPOSED PROJECT NAME:       In-N-Out Burg         PROPOSED DEVELOPMENT ACTION: (PARTITION, SUBILITY DEVELOPMENT Application)         Type III Development Application         EXISTING USE:       One drive through restaurand and one sit-down restaurand and one sit-down restaurand and one sit-down restaurand to the sit of th	er         DIVISION, DEVELOPMENT REVIEW, AND GENERAL DESCRIPTION OF PROJECT)         ant       PROPOSED USE       A single restaurant use with d         ant       through service and outdoor se         DENTIAL:       Image: Site PLAN INCLUDED         DEStaurant       SITE PLAN INCLUDED         Coss FLOOR AREA)       3,885         OF
PROPOSED PROJECT NAME:       In-N-Out Burg         PROPOSED DEVELOPMENT ACTION: (PARTITION, SUBILITY PE III Development Application         EXISTING USE:       One drive through restauration         EXISTING USE:       One drive through restauration         IF RESIDENTIAL:       IF NON-RESIDING UNITS:         NO. OF DWELLING UNITS:       IF NON-RESIDINGLE FAM.         SINGLE FAM.       MULTI-FAM.         SINGLE FAM.       MULTI-FAM.         NO. OF SQ. FT. (GIN)         PLEASE INDICATE THAT YOU HAVE DISCUSS         RETURN THIS COMPLETED FORM         (Do NOT return this form to Washington C         with their Land Devel         X         CITY HAS RECEIVED NOTIFICATION OF PENDING /         X       CONNECTION TO CITY SERVICES ARE NECESSAR         NECESSARY       SERVICES NEEDED:         WATER         CONNECTION TO CITY SERVICES ARE NOT REQUINATE	<pre>er Division, development review, and general description of project) unt proposed use A single restaurant use with d at through service and outdoor se DENTIAL: DENTIAL: DEStaurant Ross FLOOR AREA) 3, 885 DF</pre>
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PROPOSED PROJECT NAME: <u>In-N-Out Burg</u> PROPOSED DEVELOPMENT ACTION: (PARTITION, SUBT Type III Development Application EXISTING USE: <u>One drive through restauran</u> and one sit-down restaurant IF RESIDENTIAL: IF NON-RESI NO. OF DWELLING UNITS: NO. OF SQ. FT. (GI ***** ATTENTION CITY ( PLEASE INDICATE THAT YOU HAVE DISCUSS <u>RETURN THIS COMPLETED FORI</u> (Do NOT return this form to Washington C with their Land Devel X CITY HAS RECEIVED NOTIFICATION OF PENDING A CONNECTION TO CITY SERVICES ARE NECESSAR NECESSARY SERVICES NEEDED: WATER CONNECTION TO CITY SERVICES ARE NOT REQUINANCE (PRINT): <u>Brian Martin</u> SIGNA POSITION: <u>Planning Manager</u> PHON	er         unt       PROPOSED USE A single restaurant use with d         unt       PROPOSED USE A single restaurant use with d         unt       PROPOSED USE A single restaurant use with d         unt       PROPOSED USE A single restaurant use with d         unt       PROPOSED USE A single restaurant use with d         unt       PROPOSED USE A single restaurant use with d         unt       SITE PLAN INCLUDED         Destaurant       SITE PLAN INCLUDED         OF       *****         ED THE PROPOSED PROJECT WITH THE APPLICANT.       A rot the APPLICANT AS LISTED ABOVE.         Ounty. The applicant will submit the completed form opment Application submittal).       A rot the proposed development - ANNEXATION IS         APPLICATION       Y to SERVE THE PROPOSED DEVELOPMENT - ANNEXATION IS       Sanitary sewer Storm water         RED TO SERVE THE PROPOSED DEVELOPMENT       Provide Market Matter         Image: District The Proposed DEVELOPMENT       Provide Market Matter         Image: Distrest District District District Distrest Di



#### **DEVELOPMENT COORDINATION STATEMENT EXPLANATION**

Prepared by Brian Martin, Long Range Planning Manager City of Beaverton Community Development Department

Beaverton sanitary sewer service will be required for to serve the Development. Beaverton has sanitary sewer facilities in both Southwest Beaverton-Hillsdale Highway and Southwest Laurel Street, so city sanitary sewer provides the most reasonable engineering approach whether the project connect to facilities in Beaverton-Hillsdale Highway or Laurel.

It is also possible that this project would be served by Beaverton water service in the near future, as Beaverton can withdraw the properties from West Slope Water District upon annexation.

Please let us know if you have any questions about the form or Attachment A. We can arrange a meeting with Planning Division and Site Development staff if that would facilitate your project.



2022 – 1:17pm MLEWIS May 25, ED BY: DATE: PRINTE PRINT

#### **KEY NOTES**

1 NOT USED.

	MFR.	MODEL	COLOR #	COLOR NAME	FINISH	REMARKS
)	DUNN EDWARDS	ARISTOSHIELD 70	DEW 339	BONE CHINA	HIGH GLOSS	PRIME W/ D.E. ULTRA-GRIP PREMIUM PRIMER
	SHERWIN WILLIAMS	SUPER PAINT LATEX	A84W01151	IN-N-OUT BONE CHINA	HIGH GLOSS	STUCCO: PRIME W/ LOXON CONCRETE & EXT LATEX PRIMER WHITE - A24W08300. GALV METAL: PRIME W/ GALVITE HS ACRYLIC COATING - B50WZ0030, OFF WHITE
	DUNN EDWARDS	ARISTOSHIELD 70	DEW 339	BONE CHINA	HIGH GLOSS	PRIME W/ D.E. ULTRA-GRIP PREMIUM PRIMER
	SHERWIN WILLIAMS	SUPER PAINT LATEX	A84W01151	IN-N-OUT BONE CHINA	HIGH GLOSS	SEE REMARKS FOR EP-1 ALT MFR.
	DUNN EDWARDS	ARISTOSHIELD 70	DEW 339	BONE CHINA	HIGH GLOSS	PRIME W/ D.E. ULTRA-GRIP PREMIUM PRIMER
	SHERWIN WILLIAMS	SUPER PAINT LATEX	A84W01151	IN-N-OUT BONE CHINA	HIGH GLOSS	SEE REMARKS FOR EP-1 ALT MFR.
	AXALTA	IMRON	SEE REMARKS FOR COLOR FORMULA	INO RED	HIGH GLOSS	PRIMER: AXALTA IMRON IND 9P01. PRIMER CAN BE TINTED GRAYFINISH COAT: AXALTA IMRON IND 9T01 GLOSS POLYURETHANE COLOR FORMULA: NON-CUM GUIDE 2/20/20MIX SIZE:102.4OZ (GALLON)9T04 VIOLET321.29T10 RED-ORANGE349.39T13 ORANGE2577.6



14901 Quorum Drive

Suite 300 Dallas Texas 75254 Ph: (972) 239-8884 Fax: (972) 239-5054

**ISSUE RECORD** DATE DESCRIPTION 2016 CLASSIC PROTOTYPE 16C 7.8.2021 CM 16.2.122 8.25.2021 CM 16.2.126

**REVISION RECORD** 

**PROFESSIONAL SEAL** 

**PROTOTYPE VERSION** 16C.2.126

**PROJECT NAME** 

#### IN-N-OUT BURGER

#### **BEAVERTON** OREGON

**10565 SW Beaverton Hillsdale** Highway Beaverton, Oregon 97005



**GOD BLESS AMERICA** 

**PROJECT NUMBER** 200314

SHEET TITLE

**EXTERIOR** ELEVATIONS

SHEET NUMBER **A8.0** 

> Exhibit V Page 1 of 2



I. 22 MLEWIS May 25, Printed By: Print date:

#### **KEY NOTES**

## AWNINGS: AWNINGS TO BE WHITE COLOR BY COOLEY BRITE CUSTOM RED 79-L1124A, FLAME RETARDANT PER UL-48, STONE VENEER - PRO-LEDGE WHITE STACKED STONE BY CORONADO STONE WITH MATCHING CORONADO STONE 1/4" WIDE METAL PENN SCREED: SEE DETAIL 4/A16.0. ALIGN CONTROL JOINTS ON DRIVE-THRU CANOPY FASCIA WITH JOINTS. REDWOOD FRAMES TO BE PRIMED WITH AXALTA IMRON IND 9P01 - PRIMER CAN BE TINTED GRAY. FINISH COAT BUILDING ADDRESS NUMBERS TO BE 12" HIGH, 4" MIN. W/ MIN. STROKE WIDTH OF 0.5 INCH PER FIRE DEPARTMENT AND WOOD, METAL, CERAMIC, PLASTIC AND VINYL. (PAINTED OR GLUED ON NUMBERS ARE NOT ACCEPTABLE MATERIALS). HOLLOW METAL DOOR: SEE SHEET A11.0, HM DOORS AND JAMBS SHALL HAVE POWDER COAT FINISH AS FOLLOWS: INTERIOR DOORS- TIGER DRYLAC - SMOOTH, HIGH GLOSS FINISH, "BENGAL WHITE", EXTERIOR DOORS- CARDINAL -GLOSS, SMOOTH FINISH, "BONE CHINA" OR TO MATCH EXTERIOR STUCCO PAINT COLOR - (VERIFY ELEVATIONS- EP-1). WHERE FIELD PAINTING DOORS AND JAMBS IS NECESSARY- NOT RECOMMENDED. THE ALTERNATE WOULD BE TO USE AXALTA IMRON IND 9P01 WHITE PRIMER. FINISH COAT TO BE AXALTA IMRON IND 9T01 GLOSS WHITE. EXTERIOR HM

	MFR.	MODEL	COLOR #	COLOR NAME	FINISH	REMARKS
)	DUNN EDWARDS	ARISTOSHIELD 70	DEW 339	BONE CHINA	HIGH GLOSS	PRIME W/ D.E. ULTRA-GRIP PREMIUM PRIMER
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	DUNN EDWARDS	ARISTOSHIELD 70	DEW 339	BONE CHINA	HIGH GLOSS	PRIME W/ D.E. ULTRA-GRIP PREMIUM PRIMER
	SHERWIN WILLIAMS	SUPER PAINT LATEX	A84W01151	IN-N-OUT BONE CHINA	HIGH GLOSS	SEE REMARKS FOR EP-1 ALT MFR.
)	DUNN EDWARDS	ARISTOSHIELD 70	DEW 339	BONE CHINA	HIGH GLOSS	PRIME W/ D.E. ULTRA-GRIP PREMIUM PRIMER
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	AXALTA	IMRON	SEE REMARKS FOR COLOR FORMULA	INO RED	HIGH GLOSS	PRIMER: AXALTA IMRON IND 9P01. PRIMER CAN BE TINTED GRAYFINISH COAT: AXALTA IMRON IND 9T01 GLOSS POLYURETHANE COLOR FORMULA: NON-CUM GUIDE 2/20/20MIX SIZE:102.4OZ (GALLON)9T04 VIOLET321.29T10 RED-ORANGE349.39T13 ORANGE2577.6



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**10565 SW Beaverton Hillsdale** Highway Beaverton, Oregon 97005



**GOD BLESS AMERICA** 

**PROJECT NUMBER** 200314

SHEET TITLE

EXTERIOR **ELEVATIONS** 

SHEET NUMBER **A9.0** 

> Exhibit V Page 2 of 2