AGENDA ITEM: XI-H

Ordinance item H

	i.	



Jasper County Planning and Building Services

358 Third Avenue - Post Office Box 1659 Ridgeland, South Carolina 29936 Phone (843) 717-3650 Fax (843) 726-7707

Lisa Wagner, CFM
Director of Planning and Building Services
[wagner@jaspercountyse.gov

Jasper County Council Staff Report

August 15, 2022
Conceptual Review of a Planned Development District – Bailey Park
K & R Development, LLC
081-00-04-007 and 081-00-04-080
1 st Reading

Description: The Applicant has submitted a request for a Planned Development District (PDD) zoning designation for a mixed-use development, which will be known as Bailey Park PDD. Included with the Zoning Map Amendment application is a PDD document and Concept Plan. The project site consists of two parcels, which are identified by tax map numbers 081-00-04-007 and 081-00-04-080, and total 26.63 acres. The properties are located along Highway 170, approximately 2 miles east of the intersection of Highway 462 and also has frontage along Old Bailey Road. The properties are currently zoned Community Commercial and Residential and are both undeveloped.

Analysis: The PDD regulations are intended to accomplish the purpose of zoning and other applicable regulations to an equivalent or higher degree and are designed to control unscheduled development on individual lots or tracts, promote economical and efficient land use, provide an improved level of amenities, foster a harmonious variety of uses, encourage creative design, and produce a better environment. In view of the substantial public advantage of "planned development," it is the intent of the PDD regulations to promote and encourage or require development in this form where appropriate in character, timing, and location, particularly in large undeveloped tracts. All PDD's shall conform to the Jasper County Comprehensive Land Use Plan and Land Use Map (latest edition).

• Comprehensive Plan: According to the 2018 Jasper County Comprehensive Plan, the Future Land Use Map identifies this area as "Rural Conservation," which seeks to protect and promote the character of Jasper County that largely exists today outside of the municipalities. In these areas, new development should be thoughtfully placed within the existing landscape.

The Land Use Chapter of the Comprehensive Plan recommends guiding growth and new development in or around the municipalities where infrastructure and services are available to

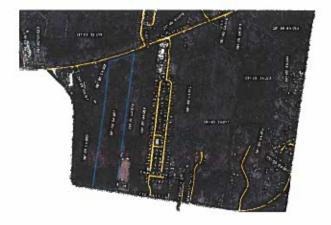
serve new growth. While this project site is not near a municipality, it is located in an area where infrastructure and services are available to serve the site.

• Adjacent Zoning and Land Uses: Figure 1 below shows the project location and Table 1 shows the adjacent land uses and zoning designation:

Table 1. Adjacent Land Uses and Zoning Designations

Adjacent Property	Existing Uses	Zoning	City or County
North Center Point PDD		PDD	Jasper County
	Old Bailey Road and	SCDOT	Jasper County and
South	S/F Residential	Residential	Beaufort County
	Primarily Vacant, Beaufort	Community	Jasper County
West	Jasper Comprehensive	Commercial and	
	Health, and S/F Residential	Residential	
East	Vacant and I single family	Community	Jasper County
	residence	Commercial and	
		Residential	

Figure 1.



• *Traffic and Access*: One of the properties is accessed by North Okatie Highway (Highway 170), which is a four-lane state maintained highway, classified as an arterial road. The other property has direct access to Old Bailey Road, which is a two-lane state maintained road classified as a local road.

The Bailey Park PDD Concept Plan illustrates the proposed uses, the general layout, and access points. A Master Plan will be submitted separately and will provide additional information regarding the layout of the development.

The proposed PDD will establish the following:

• Access Points – One full access point is proposed along Highway 170 and a second full access point is proposed along Old Bailey Road.

Bailey Park PDD Page 2 of 4

- Allowed Land Uses Tract A, which is 6.63 acres, is proposed as Mixed Use Commercial and Community Commercial, while Tract B, which is 20 acres, is proposed as Multi-Family Residential, Single-Family Residential Attached, and Single-Family Residential Detached.
- **Density** The overall commercial use density within Tract A shall not exceed 12,000 square feet of upland acre or a total of 65,820 square feet. The maximum residential use density within Tract B is 233 residential units, which is based on a unit density of 12 units of upland acres.
- Open Space 10% open space for residential land uses. While there is no open space requirement for the Commercial Tract, 10% of the commercial uplands will remain pervious.
- Setbacks and Buffers Tract A will require a 50' buffer along Highway 170 and 15' from any adjacent residential use not separated by a road. Incompatible land uses shall comply with the buffer requirements as outlined in Article 12 of the Jasper County Zoning Ordinance. In regard to setbacks and buffers, the International Fire Code will be met.
 Tract B For detached single-family residential and duplexes, the side setbacks are 6', rear yard setbacks are 15', and front yard setbacks are 25' for lots with front loaded garages, and 15' setbacks for lots with side loaded garages. For attached single-family residential, townhomes, or condominiums there will be 6' side setbacks from non-common property lines. Perimeter buffer for single-family and townhomes will be a minimum of 10' and all other uses
- Landscaping Standards will meet or exceed the County's requirements.

will be a minimum of 20'.

• Utilities – Water and Sewer will be provided by BJWSA; Electric will be provided by Dominion Energy; Telephone Service will be provided by Hargray.

A full environmental assessment of the site has been conducted as well as a full Traffic Impact Analysis, both are included with this staff report. The Bailey Park PDD meets all of the requirements for a PDD Application and Concept Plan as outlined in Article 8:1.7 of the Jasper County Zoning Ordinance.

Public Notice: Notices were sent to all adjacent property owners, notifying them of the Applicant's request to have the property designated as PDD and notifying them of the Planning Commissions review. In addition, a Zoning Application sign was placed along Highway 170 and another sign was placed along Bailey Road. The public comments that were received for the May 10, 2022 Planning Commission Meeting are included with this staff report. A public hearing will be scheduled for a future County Council Meeting,

Planning Commission Recommendation: A zoning designation of PDD does not entitle an applicant or owner of the affected property a right to develop or engage in any land use or land disturbing activity, other than the rights in existence at the time of the Concept Plan approval. To engage in development or any land use or land disturbing activity, a Master Plan and subsequent Development Plan(s) must be approved for the areas to be developed. While the Concept Plan is very generalized, a Master Plan is a more refined document which will be reassessed by the Planning Commission at a future date. The PDD application is supported by the Comprehensive Plan; as such, staff recommends approval of the PDD designation, the PDD document, and the Concept Plan.

Bailey Park PDD Page 3 of 4

Attachments:

- 1. Application
- 2. Plat of Property
- 3. PDD Document and Concept Plan
- 4. Traffic Report
- 5. Phase I Environmental Assessment Report
- 6. Aerial Map
- 7. Aerial Map with Zoning Layer



Jasper County Planning and Building Services

358 Third Avenue - Post Office Box 1659 Ridgeland, South Carolina 29936 Phone (843) 717-3650 Fax (843) 726-7707

Zoning Map Amendment Application

Owner or Owner- Authorized Applicant:	K & R Development, LLC c/o Jennifer Tosky
Address:	
	PO Box 1590, Bluffton, SC 29910
Telephone/Fax:	
	843-368-1782
Email:	jen@kennethscottbuilders.com
Property Address or Physical	
Location:	Hwy 170 & Bailey's Road (18)
Tax Map Number(s):	081-00-04-007, 081-00-04-008, 081-00-04-009
Gross Acreage:	26.63
Current Zoning:	Community Commercial & Residential
Proposed Zoning:	PDD
Administrative Fee:	
(\$250 per lot)	\$500
Date Mailed or Hand	
Delivered:	March 16, 2022
Reason for Request: (attach narrative if necessary)	To allow for a mixed used development in keeping with Jasper County PDD guidelines to promote and and encourage responsibel development beneficial to the long-term growth of Jasper County. Please see attached narrative.
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Signature of Owner or Owner-Authorized Applicant (Proof of owner-authorization required)	
Date Received:	<u>ly</u>
Amount Received:	
Staff Member:	

STATE OF SOUTH CAROLINA JASPER COUNTY

ORDINANCE #2022 -___

AN ORDINANCE OF JASPER COUNTY COUNCIL

To adopt Planned Development District Zoning for two tracts of land consisting of approximately 26.63 acres, bearing Jasper County Tax Map Numbers 081-00-04-007 and 081-00-04-080, located along N. Okatie Highway (Highway 170), approximately 2 miles east of the intersection of Highway 462, and known as Bailey Park PDD.

WHEREAS, The Planned Development District Zoning was adopted by Jasper County to permit and encourage flexibility in the development of land in order to promote its most appropriate use; and to do so in a manner that will enhance public health, safety, morals, and general welfare; and

WHEREAS, Jasper County has received a request from the owner of two tracts of land consisting of a total of approximately 26.63 acres, bearing Jasper County Tax Map Number 081-00-04-007 and 081-00-04-080, located along North Okatie Highway (Highway 170) approximately 2 miles east of the intersection of Highway 462, known as Bailey Park, to zone such in accordance with submitted Planned Development District Standards prepared for Bailey Park, LLC and accompanying Planned Development District Concept Map (Appendix H); and

WHEREAS, the above mentioned property was duly posed, with public hearings properly noticed and held by the Jasper County Planning Commission on May 10, 2022, which recommended approval and adoption, and by the Jasper County Council on September 6, 2022; and

WHEREAS, Jasper County Council finds the Planned Development District Standards and the Concept Map (Appendix H) to be in accordance with the statutory requirements of the state, and consistent with the Jasper County Comprehensive Plan, *Jasper's Journey*, as well as the Jasper County Zoning and Land Development Ordinances; and

NOW THEREFORE, BE IT RESOLVED by Jasper County Council, in council duly assembled and by the authority of the same:

- 1. Jasper County Council finds in accordance with the staff report, and the recommendation of Jasper County Planning Commission, the proposed zoning is consistent with the continued pattern of growth in the vicinity and is in harmony with the Jasper County Comprehensive Plan. Good cause having been shown to approve the applicant's request for Planned Development District Zoning for the Property, and of the Planned Development District Standards and Conceptual Master Plan (Appendix H), and to amend the Jasper County Official Zoning Map to reflect Planned Development District zoning for two tracts of land consisting of approximately 26.63 acres, bearing Jasper County Tax Map Numbers 081-00-04-007 and 081-00-04-080 and known as Bailey Park PDD.
- 2. This ordinance shall take effect upon approval by Council.

Ms. Barbara B. Clark Chairwoman	
nairwoman	
ATTEST:	
Wanda Simmons	-
Clerk to Council	

ORDINANCE: # 2022		
First Reading: August 15, 2022		
Second Reading:		
Public Hearing:		
Adopted:		
Considered by the Jasper County Planning Commission at it's meeting on		
May 10, 2022 and recommended for approval.		
Reviewed for form and draftsmanship by the Jasper County Attorney.		
David Tedder Data		

K & R DEVELOPMENT, LLC PO BOX 1590 · BLUFFTON, SC · 29910

jen@kennethscottbuilders.com · (843) 368-1782

March 16, 2022

Ms. Lisa Wagner, Director Jasper County Planning & Building 358 Third Avenue, Room 202 PO Box 1659 Ridgeland, SC 29936

Re: Tax Map # 081-00-04-007 (parcels 2A & 2B) - see attached plat

Dear Ms. Wagner:

I hope this letter finds you well. Recently, K & R Development, LLC acquired approximately 27 acres situated between Hwy 170 and Bailey's Road. At present, the property is subdivided into 2 parcels that are zoned CC & R. To allow for growth and development, favorable to the needs of Jasper County and the surrounding properties, K & R seeks a zoning map amendment to rezone the existing parcels from their current zoning to a PDD designation.

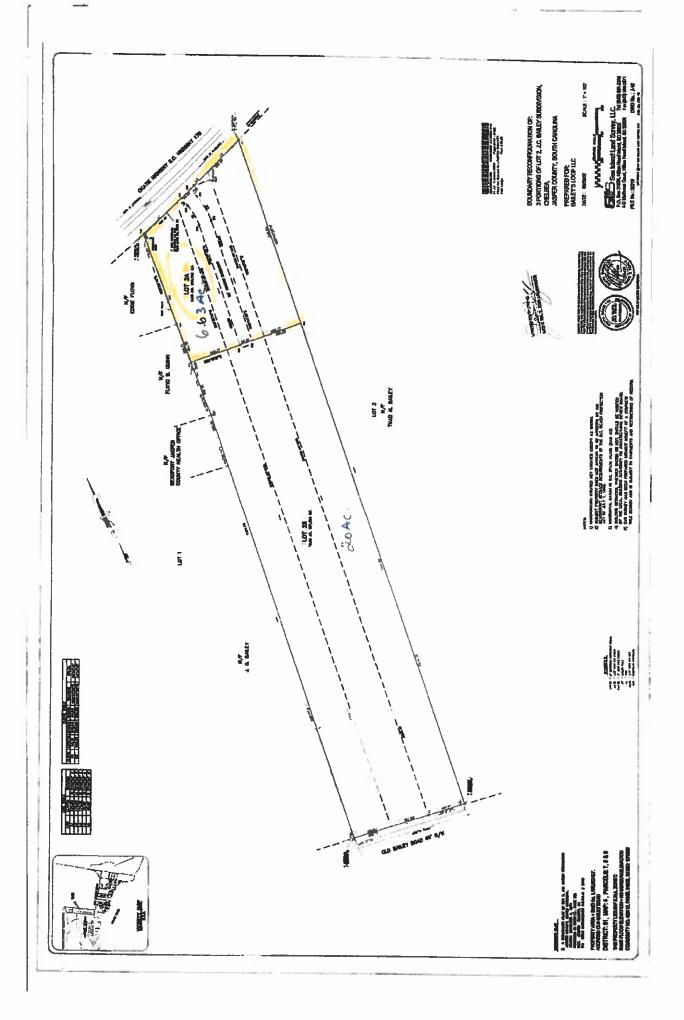
Enclosed please find a completed Zoning Map Amendment Application with fee, current Plat, Conceptual Bubble Plan and a "Draft" PDD document for the referenced property.

With your approval, K & R respectfully requests our application be presented to the Jasper County Planning Commission for their consideration and approval at the April 12th, 2022 meeting. Please let me know what else may be needed prior to the meeting.

I look forward to hearing from you and thank you greatly for your help and guidance over the last few months.

Warm regards,

Jennifer R. Tosky, Manager K & R Development, LLC



PLANNED DEVELOPMENT DISTRICT AND CONCEPT PLAN

FOR

BAILEY PARK

Jasper County, South Carolina

FOR

BAILEY PARK, LLC

BY

WITMER - JONES - KEEFER, LTD.
23 PROMENADE STREET, SUITE 201

MARCH 28, 2022

PLANNED DEVELOPMENT DISTRICT AND CONCEPT PLAN

BAILEY PARK

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BAILEY PARK

PLANNED DEVELOPMENT DISTRICT

CONCEPT PLAN

SECTION I – SITE DEVELOPMENT

A. THE PROPERTY

The Bailey Park Planned Development District (PDD) is located in Jasper County, South Carolina with frontage on Highway 170. The tract is located approximately 2 miles east of the Hwy 462 intersection and is approximately 26.63 acres. A site location map is provided in Appendix A.

The Bailey Park Tract is currently owned by K&R Development ("Owner"), its successors or assigns. The Owner proposes that this property be zoned and developed as a PDD in accordance with the Jasper County Zoning Ordinance (ZO) and Land Development Regulations (LDR) in effect at the time of submittal to Jasper County. The PDD designation will be utilized to encourage unified planning and development, promote economical and efficient land use, foster a harmonious variety of uses, encourage creative design, and produce a better environment.

The Bailey Park Tract (TM# 081-00-04-007) is located in Jasper County, South Carolina and is adjacent to Center Point PDD to the North; undeveloped property to the east and west and residential property to the south. The property is currently vacant undeveloped land. The property has approximately 514 linear feet frontage on Highway 170 to the north and approximately 450 linear feet of frontage on Old Bailey's road to the south. A site survey is included as Appendix B. See section I.C. and Appendix H for detail related to the Conceptual Master Plan.

The property encompasses approximately 26.63 acres which consist of 1.7 acres non-jurisdictional freshwater wetlands, and 24.93 acres of upland. The property does not contain any saltwater marsh critical areas and has no frontage on critical areas. The U.S. Army Corps of Engineers (USACE) wetland verification are pending. Appendix C. Preliminary soil data has been evaluated using available on site soil data and USDA soils information. On site soils are Coosaw loamy fine sand (Cs) and Wahee fine sandy loam (Wa). The soils are expected to be acceptable and suitable for the proposed site development. USDA soils data is included as Appendix D.

The 6.63 acres of Bailey Park fronting Highway 170 is currently zoned Community Commercial and the remaining 20 acres to the south is currently zoned Residential. The adjacent land uses to the north is undeveloped Center Point PDD; to the east and west are undeveloped properties and residential property to the south. Bailey Park will be

developed in 2-3 phases over an approximately 5 year period. An aerial overlay map of the PDD and surrounding area is included as Appendix E.

Based on a review of the USGS Jasper quadrangle map and preliminary site surveys, site elevations range from approximately 17-20 feet above mean sea level. A portion of the USGS map is included as Appendix F. The site is currently forested and drainage flows towards the existing wetland along highway 170; towards a drainage ditch at the center of the property and along Old Baileys road.

Based on a review of FEMA Maps, all of the PDD property occurs outside of a designated flood zone areas A portion of FEMA Map Panel Number 410, dated October 18, 2019, is included as Appendix G.

B. PLANNED DEVELOPMENT DISTRICT (PDD) AND DEVELOPMENT AGREEMENT (DA) PROCESS

The PDD overlay zone was adopted by the Jasper County Council to permit and encourage the effective, efficient, and economical development of large tracts of land in Jasper County. The PDD application will be accompanied by a Development Agreement, the intent of which is to protect the rights and entitlements specified in the PDD for the property from the effect of subsequently enacted local legislation or from the effects of changing policies and procedures of local government agencies which may conflict with any term or provision of the PDD or in any way hinder, restrict, or prevent the development of the project. The Development Agreement will provide a reasonable certainty as to the lawful requirements that must be met in protecting vested property rights, while maintaining the authority and duty of government to enforce laws and regulations which promote the public safety, health, and general welfare of the citizens of our State. The Development Agreement is being made and entered between Owner and The Jasper County Council, under the terms of the Act, for the purpose of providing assurances to Owner that it may proceed without encountering future changes in law which would materially affect the ability to develop under the plan, and for the purpose of providing important protection to the natural environment and long term financial stability and a viable tax base to Jasper County. The Owner as well as its successors, assigns, and future owners will adhere to the provisions of the PDD and Development Agreement for the duration that each remains in effect, unless one or both is modified or extended through mutual agreement with the Jasper County Council.

C. CONCEPTUAL MASTER PLAN

Bailey Park is an approximately 26.63 acre tract of land located adjacent to the Center Point PDD in Jasper County, South Carolina. It is anticipated that the property will be developed over a period of 5 years, in accordance with the Concept Planas set forth in this document or amended in the future. The Concepual Master Plan sets forth the general scope of the development including number of units, phasing, development

standards, open space and other issues. In addition to the Conceptual Master Plan, development of the property is controlled by other provisions of the PDD and further guaranteed by the Development Agreement (DA) between the applicant and the Jasper County Council. The Concept Planis included in Appendix H.

The goal of the development is to produce a high quality, mixed use development. The tract of land provides an opportunity for a mix of land uses that will be developed over a period of time. The PDD designation is necessary to accommodate the mix of land uses and provide for the responsible planning and development of the property over time.

The Bailey Park Conceptual Master Plan, prepared by Witmer-Jones-Keefer, shows a general access layout and a mixed use community showing areas designated for commercial and residential development. Proposed land uses in the residential and commercial development areas are detailed under Section 2 - Land Use Designation and Definitions.

The Bailey Park PDD property is a 26.3 acre property with 6.63 acres community commercial Tract 'A' and a 20 acre Residential Tract 'B'. 1.7 acres of non-jurisdictional wetlands are located within the tracts. Appropriate buffers shall be provided between incompatible land uses. Buffer widths are described in Section II.D.11 of the PDD.

Development is planned to occur in accordance with the Development Schedule presented in Appendix I which is preliminary and subject to change based on market conditions.

The proposed Concept Plan will maintain open space requirements as per Section II, D.10 of this document. The open space and amenities will be owned and maintained in the manner approved with appropriate covenants and restrictions by the developer, homeowner's association, or other legally designated entity. Property deeded to a governmental entity becomes the maintenance responsibility of that entity.

Activities along any external property lines of the PDD shall conform to the setback, buffer, screening as described in Section II.D.11(b) of the PDD. Height requirements shall conform to the latest adopted version of the Jasper County Zoning Ordinance (ZO) and Land Development Regulations (LDR).

The Concept Plan and Development Agreement constitute a request for a waiver from the current Jasper County ZO and LDR where differences occur. However, activities in the PDD shall conform to all other Jasper County Ordinances and Regulations where differences do not occur. The Concept Plan may introduce land uses that do not exist in the current Zoning Ordinance. Based on the PDD, Bailey Park requests deviations from the following ZO/LDR provisions:

General Requirement	Description of Proposal
No exceptions	

The provisions of the Development Agreement and the Concept Plan shall apply to development in the Bailey Park PDD. In the event of a conflict, the hierarchy of documents is the following: 1) Development Agreement; 2) PDD and Concept Plan; 3) Jasper County ZO and LDR in effect at the time of Final Adoption of the Bailey Park PDD.

D. ENVIRONMENTAL PROTECTION

Environmental protection is a priority for the Applicant. As part of the development process, Bailey Park developers will meet or exceed the stormwater management requirements of the Jasper County LDR/Stormwater Regulations and the South Carolina Department of Health's Office of Ocean and Coastal Resource Management (OCRM).

Bailey Park developers will prepare stormwater management plans for the tracts of land as they are developed. The plan will address the hydrological characteristics of the site as well as predevelopment conditions and post-development stormwater management facilities for flood control and sediment reduction.

Freshwater wetlands on the property are typical of the South Carolina Lowcountry. Approximately 15.6 percent of the site is non-jurisdictional freshwater wetlands. A plat indicating the freshwater wetlands on the property is included in Appendix C.

On-site wetland impacts resulting from the development of the Bailey Park PDD will be permitted jointly through the USACE and OCRM. All impact mitigation will be accomplished through a combination of buffers and preservation of jurisdictional wetlands located on the property and will meet or exceed state and/or federal standards.

E. CULTURAL AND HISTORICAL RESOURCES

As part of the comprehensive study of the property, a preliminary assessment of the cultural and historical resources on the site will be prepared prior to submittal of a development plan for each of the tracts. As part of Master Plan Approval and prior to final design, the South Carolina Department of Archives and History will be contacted by the Owner to request a review of the Department's cultural resource inventory database. The Owner will follow the direction and procedures of the Department of Archives and History as appropriate and if necessary, will address all cultural resource issues with the State Historic Preservation Office. A final determination will be provided as part of Master Plan Approval.

F. WATER AND SEWER SERVICE

Water and sewer service will be provided to Bailey Park by Beaufort Jasper Water & Sewer Authority (BJWSA). Currently, BJWSA has water 8" water main located within the Old Baileys road and 30" water main located within the North Okatie Highway (170) right of way and 8" force main sewer lines located within the North Okatie Highway (170) right of way, and gravity sewer within the Okatie Park Circle West right of way. Detailed planning for the water and sewer systems will commence at the time of Development Agreement and PDD approval by Jasper County. Preliminary discussions with BJWSA indicate a willingness to serve the property and to increase their capacity to serve developments in the vicinity. BJWSA has agreed to operate and maintain the water and sewer systems within their service area upon completion by the developer and acceptance by the Authority.

G. UTILITY SERVICE

Bailey Park is within the service territory of Dominion Energy for electrical power. The Owner will coordinate with Dominion Energy regarding planning for the PDD.

Hargray is able to provide telephone service to Bailey Park. The Owner will coordinate with Hargray regarding planning for the PDD.

Other utility services may be provided by legally established entities at the discretion of the Owner, provided such are in accordance with applicable franchising ordinances and licensing requirements of Jasper County.

H. ROADWAYS AND TRAFFIC

Bailey Park has frontage on SC Highway 170 to the north and Old Baileys road to the south. Establishing safe and reasonable ingress and egress for the property is a priority for the Owner, South Carolina Department of Transportation (SCDOT), and Jasper County. Full access shall be defined as access which allows any and all possible vehicular traffic movements into and out of the development. Limited access shall be defined as access which limits the movement of traffic into and out of a development (i.e., right-in, right-out). Any proposed roadway improvements shall be subject to approval by Jasper County and, where appropriate, the SCDOT.

The Concept Planprovides locations for potential internal access points for future interconnectivity.

As part of the access management plan for the project, the Owner will work with SCDOT and Jasper County to obtain one access point from Highway 170 and one access off Old Bailey Road. All proposed access points shall be accompanied by a traffic analysis that demonstrates consistency with the Jasper County and SCDOT Highway Management

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Access Plans and design criteria. These accesses may be relocated to accommodate traffic modeling information, site specific characteristics and adjacent land uses as part of the access management plan.

Primary access to the interior of the development will be via the access point off Highway 170 and access off Old Baileys road as shown on the Conceptual Master Plan. Connectivity between the various development parcels and these access locations will be planned and incorporated into the site plans for the individual developments as they are submitted to Jasper County for review. Traffic circulation and access systems will be developed to maximize the public utility of full access points to Highway 170 from Bailey Park and also from adjacent and opposite parcels, to the extent practical. Interconnectivity between different proposed uses within the PDD will be promoted in order to encourage efficient traffic flow within the PDD.

The Bailey Park PDD may have roads designed with funding as outlined in the Development Agreement. Roads indicated on the Concept Planare subject to modification at the time of Development Plan approval based upon specific soil conditions, environmental concerns, physical constraints and design parameters.

The access point locations described above and shown on the Concept Planare preliminary and may be relocated during Master Plan approval and final development plans. Planning, design and construction of these accesses as well as all roadways and transportation elements shall be in accordance with SCDOT standards, Jasper County Ordinances, traffic impact assessment, PDD standards, or other engineering standards reasonably acceptable to the County engineer. Typical roadway sections will be submitted for review at the Master Plan approval stage.

Potential access across the jurisdictional wetlands surrounding adjacent tracts may be allowed if approved by OCRM and the USACE. Road linkages to adjacent properties may include impacts to jurisdictional wetlands.

Notwithstanding other provisions of this document and subject to approval by Jasper County, roadway design standards may be modified to reduce environmental impacts and increase tree preservation provided safety concerns are not compromised. Protection and preservation of significant trees will be encouraged. Reductions of roadway and right-of-way widths may not occur unless specifically authorized by the County.

I. PARKING

The total number of required parking spaces for all land uses allowed herein shall conform to the Jasper County ZO and LDR in effect at the time of Final Adoption of the Bailey Park PDD. Modulation of those standards may be allowed provided the applicant furnishes actual documentation that the new proposed standard meets the parking needs of the proposed land use and the County agrees at Master Plan approval.

J. STORMWATER MANAGEMENT

Bailey Park PDD shall conform to the Jasper County ZO, LDR and Stormwater Management Ordinance in effect at the time of Master Plan approval for the Bailey Park PDD as well as all other applicable state and federal requirements. Sufficient stormwater best management practices will be employed in the development of the PDD to ensure runoff leaving the site does not degrade water quality within surrounding wetlands and the receiving waterways.

SECTION II – LAND USE

A. INTRODUCTION AND NARRATIVE

The Bailey Park PDD has a total area of 26.63 acres, including 1.7 acres of non-jurisdictional freshwater wetlands, as indicated on the Conceptual Master Plan.

The Concept Planconsists of the following land use areas:

List types of proposed uses:

Of the approximately 24.93 upland acres, approximately 6 upland acres are intended for Commercial/ mixed use, approximately 19.445 upland acres are intended for residential uses and 10% (2.5%) upland acres are intended for community space use and stormwater management.

The majority of the commercial mixed use acres are intended for retail and office use. Of the residential units, initial plans call for multi-family, townhouse and single family homes.

The land use areas indicated on the Concept Plan are not intended to be rigid exact boundary lines for future land use and improvements. The Concept Plan for the Bailey Park PDD shall maintain flexibility to accommodate specific soil conditions, environmental concerns, pedestrian friendly requirements, physical constraints, market conditions and design parameters and as such, the exact location of boundary lines between land uses and their subsequent location and size indicated within the planning area shall be subject to change at the time Development Permit Plan(s) are submitted for development; provided, however, that maximum densities and other conditions of this PDD and the Development agreement between the Owner and Jasper County, South Carolina, will be strictly adhered to, unless adjustment is requested by the Owner and approved by the County. The boundaries of the PDD may be modified to include adjacent acreage subject to the approval of Jasper County by appropriate petition/application to the County to amend the PDD and the Development Agreement.

B. ALLOWED LAND USES

The following land uses shall be permitted in the Bailey Park PDD. The purpose of this portion of the PDD document is to state which land uses shall be allowed within the Bailey Park PDD; however, by allowing these uses this does not obligate the developer to provide the uses or facilities stated herein.

The following land uses and definitions shall be permitted in the Bailey Park PDD:

List types of proposed uses:

Tract A: Mixed Use Commercial and Community Commercial

Tract B: Multi Family Residential; Single Family attached and Single Family Detached Residential

Any easement that occurs within the property shall have the same land uses as any of the adjacent land uses. Any restrictions shall be based on the legal definition of the easement.

Design Regulations and Performance Standards will be established for each area at the time of the Master Plan approval. Unless otherwise agreed at Master Plan approval or in this PDD, the standard for uses and design criteria from the Jasper County ZO and LDR will apply.

C. ALLOWED DENSITY

Of the approximately 24.93 upland acres, the Concept Planfor the Bailey Park PDD consists of approximately 6.63 acres of Mixed Use Commercial/Community Commercial, approximately 20 acres of Residential uses. The Concept Plan may be modified at Master Plan approval, taking into consideration the potential need to change the exact locations of the proposed use(s) in order to address traffic considerations and in response to market conditions.

The overall Commercial use density within Tract A for the PDD shall not exceed 12,000 square feet/upland acre or a total build-out cap of 65,820 square feet for the entire PDD.

The Bailey Park PDD is planned to include a maximum of 233 residential units, which is based on a unit density of 12 units/upland acre for Tract B. Overall residential density shall include both Attached and Detached Single-Family Residential and Multi-Family Residential. Bed and Breakfast and Guesthouses shall not count against residential density. Detached guesthouses, "Mother-in-Law" Apartments, and Garage Apartments (for rent or not) on the same lot with a single family unit will be allowed as one structure per lot up to a maximum of 20% of the total residential units, with the exception of TND land use areas which shall not be subject to this 20% restriction; the second structure will

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not be counted against the density cap but shall be counted as 0.5 units for the purposed of Development Fees. Fractional Ownership/Time Shares and Condo/Hotels count as 0.5 residential units for purposes of density, but count as commercial for Developer Fees under the Development Agreement. Condo/Hotels are defined as primarily transient, short term lodging facilities which have units owned by individuals/entities and may be under some type of common management/leasing program.

Commercial to Residential Conversion Rate: Commercial land uses in Tract A may be converted to multi-family or assisted living residential units. The allowable conversion rate shall be 1 DU per 625 SF of allowable Commercial SF or 19.2 DU per Acre. Both Short and Long term multi-family rentals and units for sale are allowed.

Commercial acreage shall include the commercial uses of Institutional/Civic as well as other uses and shall have no cap placed on unit density (building square footage/acre), provided compliance with stormwater, parking, buffering, landscaping and other site design requirements of the PDD and the Jasper County ZO and LDR are met. Hotel/Inn/Bed and Breakfast Properties, and assisted living, congregate care, and nursing home facilities shall not have a specified dwelling unit per acre maximum, provided compliance with stormwater, parking, buffering, landscaping and other site design requirements of the PDD and the Jasper County Ordinances and Regulations are met. All commercial development shall be subject to the provisions of the Jasper County ZO and LDR unless specifically exempted by this document. In addition to the Prohibited Uses specified in Section II(D)(5), trucking terminals will not be a permitted use in the commercial use areas.

D. DEFINITIONS OF LAND USE TERMS AND DENSITY TERMS

In the absence of a term definition in this Concept Plan or in the Bailey Park
Development Agreement with Jasper County, the definitions of the Jasper County Zoning
Ordinance shall apply in the interpretation of this Concept Plan. The definitions below
shall generally describe the allowed uses within the PDD.

1. Tract A - General Commercial

The general commercial designation allows for the development of concentrated commercial and office nodes located on primary vehicular routes to serve the Bailey Park PDD and surrounding area.

a. Permitted Uses:

(1) Establishments engaged in selling goods or merchandise to the general public for personal or household consumption (e.g., regional malls, outlet

centers, shopping centers, supermarkets, department stores, convenience stores, gas stations, automobile and boat dealerships, etc.) and rendering services incidental to the sale of such goods; establishments providing services or entertainment to the general public including but not limited to eating and drinking establishments, personal service and repair business and entertainment establishments (e.g. movie theatres, bowling alleys, etc.); medical and health facilities/office buildings and/or office for government, business professional or general purposes, unless specifically prohibited under Prohibited Uses below.

- (2) Assembly and Worship
- (3) Colleges and Professional Schools, Neighborhood (elementary, middle and high school)
- (4) Storage facility
- (5) Assisted living and continuing care facility
- (6) Daycare, commercial
- (7) Utilities including Cell Towers
- (8) Public Services
- (9) Government Office
- (10) Commercial lodging (hotel and motel)
- (11) Commercial Retail
- (12) Office
- (13) Medical and Health Facilities
- (14) Restaurant (including outdoor seating)
- (15) Service Businesses
- (16) Dry-cleaning and Laundry Services
- (17) Parking Garages
- (18) Gas-convenient stores
- (19) Commercial Amusement (indoor)
- (20) Christmas Tree Sales
- (21) Roadside Stands (on designated areas only)
- (22) Commercial Outdoor Sales (related to existing retail)
- (23) Public Interest and Special Events (permitted, located, and scheduled ahead of time)
- (24) Nightclub and entertainment
- (25) Movie Theaters and Bowling alleys
- (26) Grocery
- (27) Mini-warehouse facilities
- (28) Outdoor go-cart racing facilities subject to the Jasper County Ordinances
- (29) Single family attached, detached residential and Multi-family residential
- b. Sidewalk displays are permitted directly in front of an establishment, if at least five (5) feet of sidewalk is maintained for adequate and uncluttered pedestrian access.
- c. Commercial uses shall provide a minimum buffer of Fifteen (15) feet from any adjacent residential use not separated by a road right of way, excluding TND uses.

d. Prohibited Uses:

The following commercial uses are specifically prohibited:

- (1) Junkyards or auto salvage yards
- (2) Gambling facilities not authorized by law
- (3) Sexually-oriented businesses

6. Hotel, Inn, Resort and Condo/hotel

This designation is for hotels, inns, timeshare projects, resorts and spas that consist of building or buildings with guest rooms for sleeping, kitchens and or a dining room(s) to provide meals for guests, including public restaurants, bars, and entertainment areas. Hotels, inns, and spas shall be considered a commercial land use. Conference facilities may or may not accompany the hotel/inn and may be integral to the hotel/inn or detached. Resorts under this land use may include fractional ownership. Hotels, inns, and spas shall be considered a commercial land use and will not count against the residential unit cap except for Fractional Ownership/Time Shares and Condo/Hotels, which count as 0.5 residential units for purposes of density, but count as a commercial unit (Hotel/Motel) for Developer Fees under the Development Agreement.

Maximum building height shall meet the requirements of the Jasper County Ordinances and Regulations for group dwellings and multiple family dwellings.

2. Tract B - Residential (Multi-family and Single family)

- a. The maximum number of residential dwelling units on the property will be 233 units, as determined by specific soil conditions, environmental concerns, pedestrian friendly requirements, physical constraints, market conditions and design parameters.
- b. For detached single family residential and duplexes, (i) the average lot size may vary as to specific, individual master plans, but the overall average lot size on the Property shall not be less than 4,500 square feet and (ii) the minimum side setbacks shall be 6 feet on each side. Side setbacks can be reduced at the discretion of the County's Planning staff. The primary standard, to be utilized in allowing the variance shall be the maintenance of the County's Insurance Services Organization fire safety rating. As for dwelling units, a minimum front-yard setback of 25 feet shall be imposed on lots with front-loaded garages; a minimum setback of 15 feet from the back lot line; and a minimum setback of 5 feet from a pool or deck. For corner lots, the second street setback shall be 15 feet.

- c. For attached single family residential, townhomes, or condominiums (i) there shall be no minimum lot size or setbacks, and (ii) 6 foot side setbacks shall be required for all non-common lot line sides.
- d. Multi-family residential units (which are not separated by a ground-to-roof wall) are allowable up to a maximum of 12 units per acre. Multifamily residential consists of attached or detached residential including both short term and long term rentals, but excludes Hotel/Inn/Bed and Breakfast and Guesthouse. Multifamily units do not have a lot size designation. Multi-family units do not have a lot size designation. Multi-family units shall be limited to a maximum of four (4) stories and 55 feet in height above finished grade, as applicable, not including minor uninhabitable architectural elements above basic roof lines, subject to provisions of the Jasper County Ordinances.
- e. The allocation of density as specified allows for the clustering of development to optimize the protection of natural features and maximize open space. This does not guarantee that the Property can be developed at the identified maximum. Lot sizes range from the square footage of the foundation of cottage-type product to larger single family lots.
- f. Single-family residential consists of attached (2 or more units separated by a ground-to-roof wall) and detached residential, including both short and long term rentals. Product mix may include full size lots, attached zero lot line product subject to Master Plan Review, townhouses, patio home sites and cottages. Residential improvements shall be limited to a maximum of three (3) stories in height above parking or base flood elevation, as applicable, not including minor uninhabitable architecture elements above basic roof lines, subject to provisions of the Jasper County Ordinances. Single family managed rental communities shall not be an allowable use in the development.
- g. Additional lot size designations and bulk requirements shall be provided for each type of proposed residential use at the Master Plan phase.

3. Community Recreation, Amenities and Parks:

This designation allows for the recreational complexes and amenities to serve the Bailey Park PDD. Land uses may consist of private and semi-private recreation, indoor and outdoor lighted and unlighted recreation facilities, establishments and services that include active and passive sports and entertainment, ancillary facilities such as restaurants serving such public recreational facilities. Community Recreation enhances the quality of life and provides recreational needs for the Bailey Park community and shall not be counted against the overall allowed acreage for commercial uses within the Bailey Park PDD. Permitted uses include:

a. Outdoor Recreational Facilities including but not limited to:

- 1. Public or Private Clubhouse and pavilions (maximum 3 stories and 45' height above finished grade, subject to provisions of the Jasper County Ordinances)
- 2. Swimming pool and support facilities
- 3. Event space and green for outdoor recreation and restrooms
- 4. Recreation fields, sports courts and other recreation related amenities.
- 5. Sidewalks and pedestrian trails
- 6. Recreational Building including but not limited to uses such as indoor recreation, meetings, assembly, banquet, fitness, and hobby space.
- 7. Accessory Buildings
- 8. Community Offices/Administration Buildings shall not be counted against commercial acreage.
- 9. Maintenance and Storage Facilities
- 10. Pro shops, snack bars, grills, restaurants and lounges associated with clubhouses
- 11. Ancillary uses associated with community recreation facilities such as craft centers, fitness centers, etc.

4. Institutional/Civic

This designation allows for institutional and civic land uses, which shall be allowed to occur as a mixed use throughout the Bailey Park PDD. Institutional and civic land uses shall be reviewed at the Master Plan phase with total square footages counting at a rate of 50% towards the commercial cap.

- a. Civic, cultural, municipal, governmental, educational (public or private), conference centers, research or other similar facilities which may include dormitories or other similar living quarters for students, staff, faculty and professionals.
- b. Churches, synagogues, temple and other places of worship provided that such uses are housed in a permanent structure.
- c. Cemeteries provided that such use does not include a funeral home or crematorium.
- d. Medical and health facilities, assisted living facility, nursing home and congregate care facility.
- e. Public emergency service facilities, library, museum, day care facilities, social/community centers, etc.

5. Maintenance Areas

The maintenance areas will contain the facilities, tools and equipment necessary to maintain the common properties within the Bailey Park PDD. These facilities may be congregated on a central site or located in separate convenient sites for

different services such as general community maintenance, golf course maintenance, recreation area maintenance or individual property regime maintenance. Permitted uses include:

- a. Vehicle maintenance
- b. Storage of vehicles and parts, boats, recreational vehicles and resident storage
- c. Fuel storage
- d. Shops for woodwork, metalwork and painting.
- e. Greenhouses, plant propagation areas and holding yards
- f. Mulching facility and mulch storage.
- g. Storage of chemicals and bulk materials as permitted by law.
- h. Offices associated with community and maintenance.

6. Model Home/Sales Center

This designation allows for the model homes and office/administrative facilities associated with the primary sale of residential lots and homes. The facility(s) may be permanent or temporary in nature with the model homes being sold as single-family residences in the future or the facility(s) may relocate from time to time during the period of development to meet the needs of development phasing. From time to time model homes may be constructed and later sold as permanent residences when no longer needed as models. Permanent model homes will count towards the total residential density cap and towards associated residential development fees. Temporary sales centers will not count against commercial square footage density or development fees.

7. Open Space

Bailey Park PDD shall provide at least ten (10) percent open space for all residential land uses. There shall be no requirement for additional open space for the Commercial portions of the development; however 10% of the overall Commercial uplands will remain pervious. No wetlands, rights of way, easements or other lands already subject to use restrictions shall be used to generate the ten percent (10%) open space reservation for residential land uses. Open space may be located in restricted access, gated communities and shall consist of the following:

- (1) Landscaped areas including manicured village greens
- (2) Forest, wildlife preserves/corridors, wetland conservation areas, stormwater management areas and greenbelts
- (3) Community garden plots
- (4) Recreation areas including swimming pools, tennis courts, playgrounds, ball fields, lawn game fields, gardens, public or private regulation or par three golf courses, etc.
- (5) Pedestrian/bicycle trail, sidewalk easements and right-of-ways
- (6) Buffer and setback areas

8. Setbacks and Buffers

Setbacks and buffers required by the HCOD shall apply according to the LDR if and when necessary. All other buffers and setbacks shall be maintained as described below:

- a. Setbacks and buffer standards within the Bailey Park PDD shall include:
 - (1) There shall be no minimum setbacks applied to the Concept Plan other than those described in the HCOD where necessary, those required by Fire Code, and those described elsewhere in this document. Residential setbacks are described in Section II.D.4 of this document.
 - (2) Buffers between non-compatible land uses shall comply with Section 2B4 of the LDR. The required buffers shall be a total width and can be met by sharing a buffer across a property line.
 - (3) At jurisdictional wetlands or recorded conservation easements the setbacks and buffers shall be as determined by the state and federal agencies having jurisdiction over the wetlands. The project shall also comply with Section 7.4 of the LDR with regards to riparian buffering. The project shall have the right to buffer average in accordance with USACE and OCRM standards.
 - (4) A 10-foot setback shall be required for all drainage systems and retention ponds within the development.
- b. Perimeter buffer for single family and townhomes shall be a minimum of 10', all other uses shall be required a minimum 20' Buffer. Stormwater features related to the outfall from a detention, retention or filtration system shall be allowed within the perimeter setbacks and buffers. Only temporary flood control and soil erosion control devices shall be permitted in the perimeter setback and buffer areas during construction. These devices shall be immediately removed upon stabilization of these areas.

9. Signage Control

Signage for the Bailey Park PDD shall be governed by the Jasper County ZO and LDR in effect at the time of the submission of final development plans or as herein contained.

10. Wetlands

This designation allows the following uses within wetlands. Freshwater wetlands on the property shall be those areas over which the applicable governmental agencies claim jurisdiction for freshwater wetlands. Unless restricted via a future Memorandum of Agreement (MOA) to the contrary, the following are permitted uses:

- a. Buffers
- b. Conservation areas
- c. Activities in all wetland areas as permitted by the USACE and OCRM
- d. Disposal of reclaimed water as permitted by SCDHEC
- e. Stormwater management and recreational lakes
- f. Boardwalks, trails, bridges and other permitted structures
- g. Game Management

11. Utilities

This designation allows for utility service to serve the planned tracts of the Bailey Park PDD. Utility types and facilities not germane to the development will be subject to review by the Planning Commission as part of the Master Plan review process. The following land uses shall be allowed:

- a. Potable water supply and distribution
- b. Wastewater collection, treatment and disposal
- c. Stormwater collection, treatment and detention
- d. Irrigation
- e. Communication towers (except in residential land use areas)
- f. Satellite antennas
- g. Cable television facilities
- h. Telephone facilities
- i. Power transmission and distribution
- j. Fiber optic lines
- k. Other utility services (i.e., Internet access and other telecommunication uses)

Certain community-wide infrastructure is required for the development of any large, master-planned community. This infrastructure may include, but is not limited to the following:

- a. Arterial streets and primary access roads
- b. Water supply
- c. Wastewater treatment and effluent disposal
- d. Power substations
- e. Central telephone facilities
- f. Stormwater management lagoons
- g. Natural gas supply

In the case of this Concept Plan, the community-wide infrastructure may serve more than one planning tract. Infrastructure serving the community (on-site and off-site) will be approved as part of the Master Plan approval process. Infrastructure projects must receive a Jasper County Development Permit prior to construction.

12. Traditional Neighborhood Development (TND)

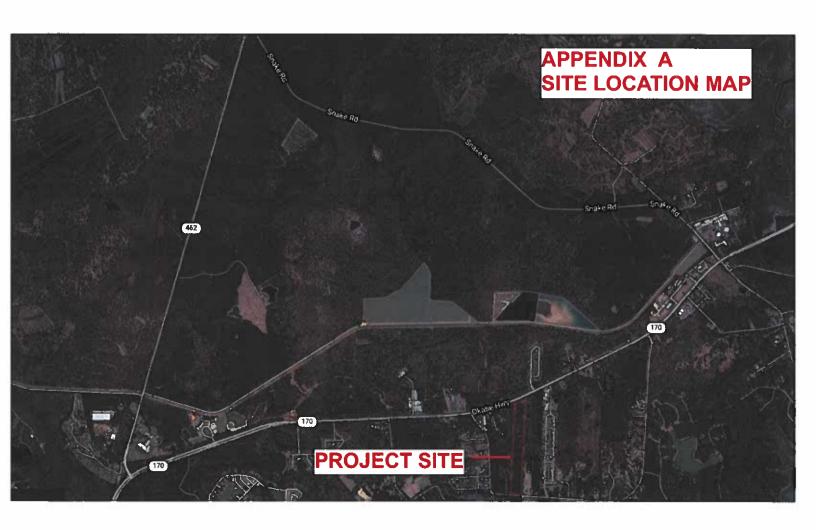
This Land Use Category allows for the development of a Traditional Neighborhood Development within the Bailey Park PDD typified by the culture, value and traditions exemplified in the Historic Districts of Savannah, GA, Charleston, SC and Seaside, FL. This development is to be a traditional neighborhood, which is characterized by a pedestrian-friendly environment of grid streets, neighborhood parks, sidewalks, front porches, alleys, on-street parking, mixed uses and a tight scale to unify the district. Homes within the neighborhood are planned to be within a five minute walk of the community hall, civic buildings and other mixed use areas.

The traditional neighborhood will be a mixed-use development consisting of neighborhood-commercial, single-family residential, multi-family residential, recreational, civic uses and open space. There shall be allowance for mixed-use capabilities (live/work units) as well as an allowance for accessory buildings to have residential capacity (such as garage apartments). Other distinctive features of this traditional neighborhood that will be allowed within this district are outlined in this land use category.

Design Standards shall be submitted at Master Plan stage, and may have standards deviating from the Jasper County Ordinances or this PDD, provided that health, safety, ingress/egress, and fire protection concerns are addressed to the satisfaction of the County.

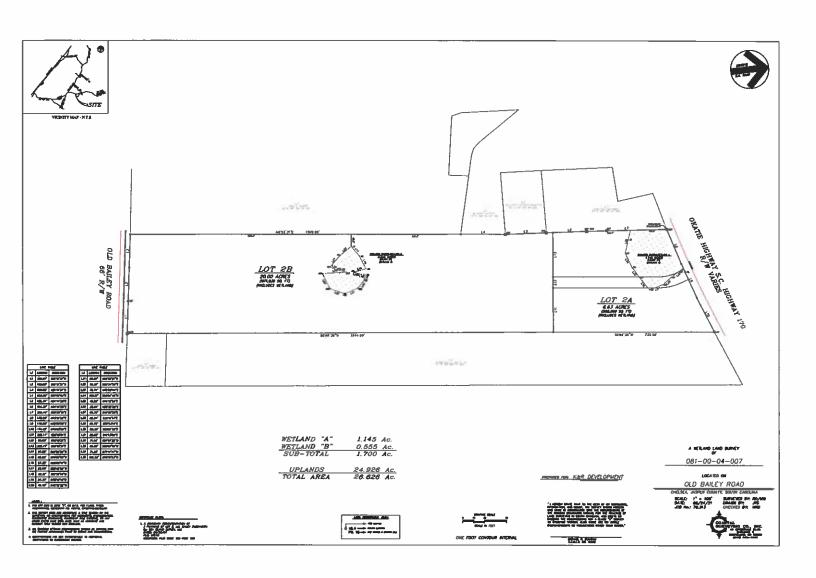
APPENDIX A

SITE LOCATION MAP



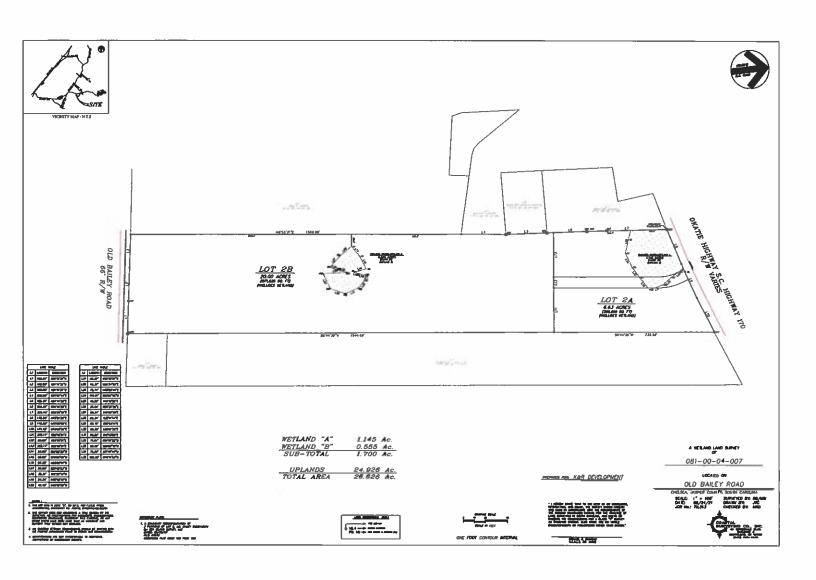
APPENDIX B

SITE SURVEY



APPENDIX C

FRESHWATER WETLANDS DELINEATION



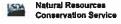
APPENDIX D

USDA SOILS DATA



Soil Map-Beaufort County, South Carolina, and Jasper County, South Carolina (Bailey Park)

MAP INFORMATION MAP LEGEND The soil surveys that comprise your AOI were mapped at Area of Interest (AOI) 台 Spoil Area 1:20,000. Area of Interest (AOI) 11.7 Stony Spot 0 Soils Warning Soil Map may not be valid at this scale. Very Stony Spot 0 Soil Map Unit Polygons Enlargement of maps beyond the scale of mapping can cause Ø. Wet Spot Soil Map Unit Lines misunderstanding of the detail of mapping and accuracy of soil Other line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed Δ Soll Map Unit Points 1 .-Special Line Features Special Point Features Water Features (9) Blowout Streams and Canals Please rely on the bar scale on each map sheet for map 53 measurements. Transportation 34 Clay Spot Source of Map: Natural Resources Conservation Service Web Soil Survey URL: +++ Rails 0 Closed Depression Interstate Highways Web Mercator (EPSG:3857) Coordinate System: × Gravel Pit US Routes Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts Gravelly Sool 4 Major Roads distance and area. A projection that preserves area, such as the Ó Landfill mar. Local Roads Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required. ٨ Background This product is generated from the USDA-NRCS certified data as Aerial Photography Marsh or swamp 4 of the version date(s) listed below. Mine or Quarry Soil Survey Area: Beaufort County, South Carolina Survey Area Data: Version 17, Aug 27, 2021 Miscellaneous Water ٥ Perennial Water Ò Soil Survey Area: Jasper County, South Carolina Survey Area Data: Version 16, Aug 30, 2021 Rock Outcrop Your area of interest (AOI) includes more than one soil survey Saline Spot + area. These survey areas may have been mapped at different scales, with a different land use in mind, at different times, or at : .: Sandy Spot different levels of detail. This may result in map unit symbols, soil • Severely Eroded Spot properties, and interpretations that do not completely agree across soil survey area boundaries. Sinkhole Ó Soil map units are labeled (as space allows) for map scales Slide or Slip þ 1:50,000 or larger. Sodic Spot Date(s) serial images were photographed: Feb 21, 2021—Feb



Soil Map—Beaufort County, South Carolina, and Jasper County, South Carolina (Bailey Park)

MAP LEGEND

MAP INFORMATION

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.



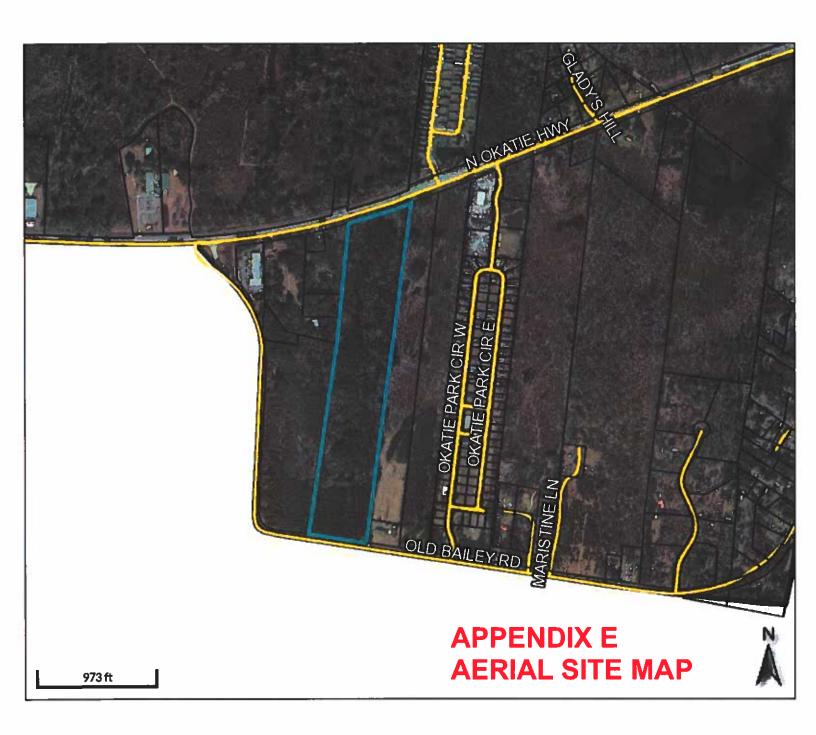
Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI			
Cs	Coosaw loamy fine sand	0.1				
Subtotals for Soil Survey A	\rea	0.1				
Totals for Area of Interest		29.1	100.0%			

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI	
Cs	Coosaw loamy fine sand	8.6	29.5%	
Wa	Wahee fine sandy loam	20.4	70.1%	
Subtotals for Soil Survey	\rea	28.9	99.5%	
Totals for Area of Interest		29.1	100.0%	

APPENDIX E

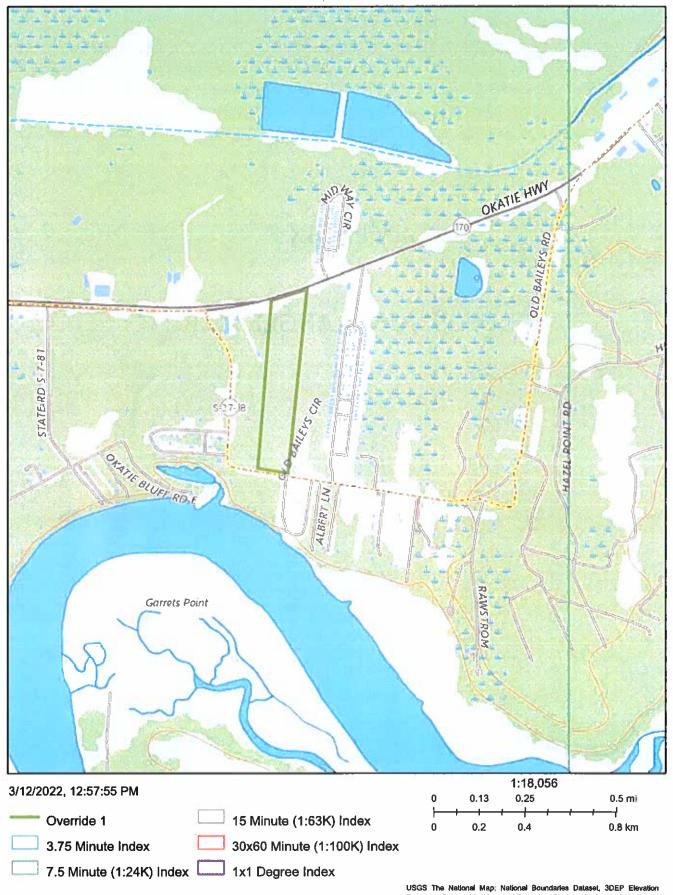
AERIAL SITE MAP



APPENDIX F

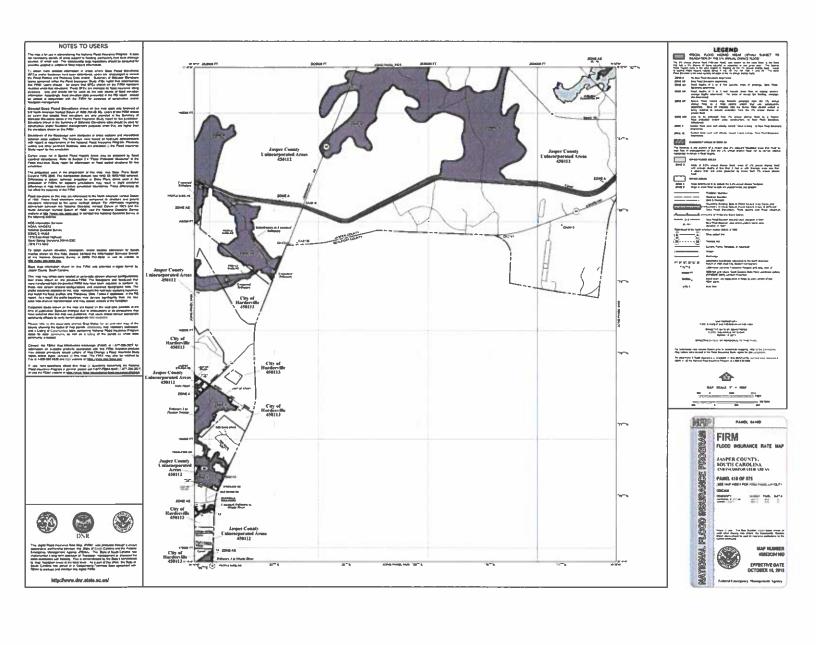
USGS QUADRANGLE MAP

The National Map Advanced Viewer



APPENDIX G

FEMA MAP







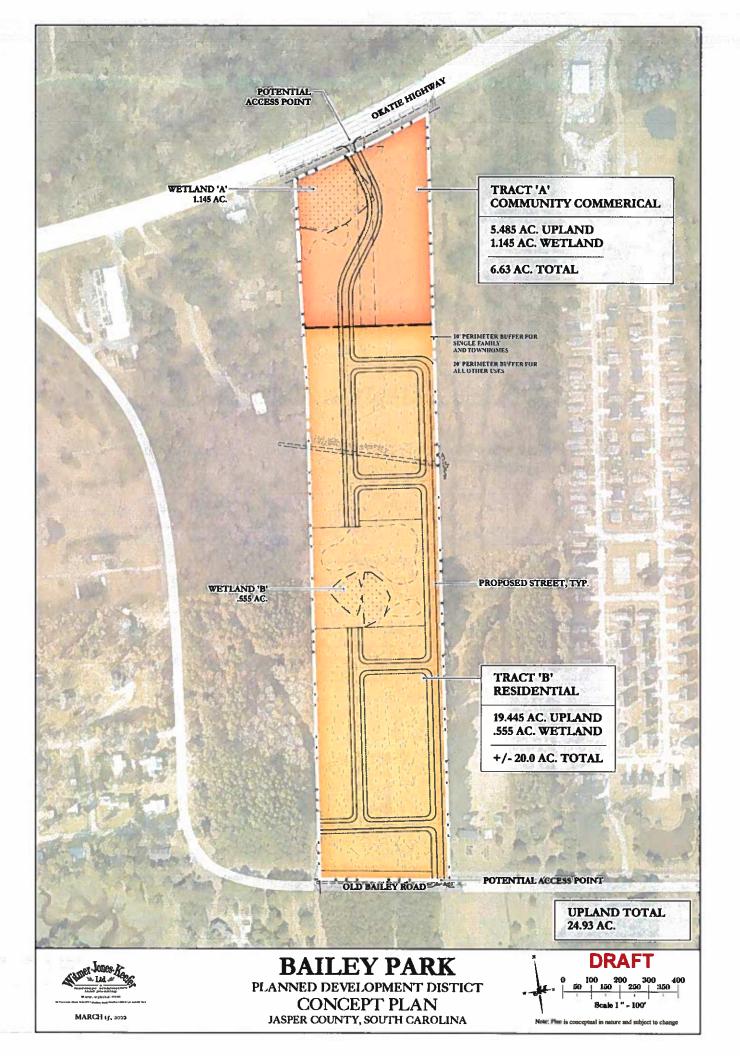
This map compiles with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown compiles with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 3/12/2022 at 1.01 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new date over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM affective date. Map images for unmapped and unmodemitted areas cannot be used for regulatory purposes.

APPENDIX H

CONCEPT PLAN



APPENDIX I

DEVELOPMENT SCHEDULE

The following is a Preliminary Development Schedule for Bailey Park PDD that is subject to change based on market conditions and other factors:

Year	Commercial (sq ft)	Residential (dwelling units)
Phase 1 - 2022-2024	35,820	180 DU's
Phase 2 -2025-2027	30,000	53 DU's

AECOM



Bailey Park

Traffic Impact Study

April 2022

Quality inforr	mation					
Prepared by	Chec	ked by		Verified by		Approved by
Jacob Nelson, Pl		Eckenrode, E, RSP2I	P.E.			
Revision His	tory					
Revision	Revision date	Details		Authorized	Name	Position
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1. Executive Summary

The planned Bailey Park mixed-use development is to be located south of SC 170 (Okatie Highway) between Old Bailey Road West and Okatie Park Drive in Jasper County, South Carolina. The development is expected to be fully built out by 2027 and is planned to consist of 233 single family homes and 65,280 square feet of commercial development.

AECOM studied the traffic impacts of the Bailey Park development at full build-out and due to the heavy traffic volumes on SC 170, the minor street approaches at Bailey Road West and Site Driveway #1 are likely to experience moderate to significant delay for all left-turn vehicles in the year 2027. Please note AECOM used a conservative 4% annual growth rate to obtain 2027 traffic volumes.

In the Build 2027 scenario, the minor approach at Site Driveway #1 intersecting with SC 170 is expected to operate with a poor level of service and experience significant queuing. The following items were recommended for this scenario:

SC 170 at Site Driveway #1

- Construct a 150-foot eastbound right turn lane on SC 170 at Site Driveway #1.
- Construct a northbound left-turn lane along with 200-foot right-turn lane on Site Driveway #1 at SC 170.

While these recommendations may not fully mitigate congestion during peak hours, the following additional improvement should be considered:

 Install a sign at Site Driveway #1 that prohibits vehicle from turning left out of driveway during 7-9 AM and 4-6 PM. As a result of vehicles being restricted from turning left out of Site Driveway #1, the intersection of SC 170 at Bailey Road West should be monitored as future signalization may be warranted at a later time.

Old Bailey Road at Site Driveway #2

 Construct a single lane southbound approach on Site Driveway #2 at Old Bailey Road under stop control. No significant delay is expected at this driveway.

2. Introduction

The planned Bailey Park mixed-use development is to be located on SC 170 (Okatie Highway) between Old Bailey Road West and Okatie Park Drive in Jasper County, South Carolina as seen in **Figure 1**. The development is expected to be fully built out by 2027 and is planned to consist of 233 single family homes and 65,280 square feet of commercial development. The proposed site plan is shown in **Figure 2**. The intersections studied in this report are listed below:

- 1. SC 170 at Old Bailey Road West (S-18)
- 2. SC 170 at Old Bailey Road East (S-18)

This traffic study focuses on trip generation, distribution, traffic analyses, and provides recommendations for mitigating Level of Service (LOS) and queuing incurred by the proposed Bailey Park mixed-use development.

AECOM was tasked with studying traffic conditions near the proposed project during the weekday AM and PM peak hours for three (3) scenarios:

- 2022 Existing: An analysis of the existing conditions
- 2027 Background: An analysis of conditions in the year 2027 if the development is not constructed.
- 2027 Build: An analysis of conditions in the year 2027 if the development is constructed.

Based on these scenarios, the study is structured to focus on whether the proposed development will have a negative impact on traffic regarding LOS, delay, and queuing.



AECOM

FIGURE 1

VICINITY MAP

Bailey Park Traffic Impact Analysis - Jasper County, SC



Drawing Not to Scale

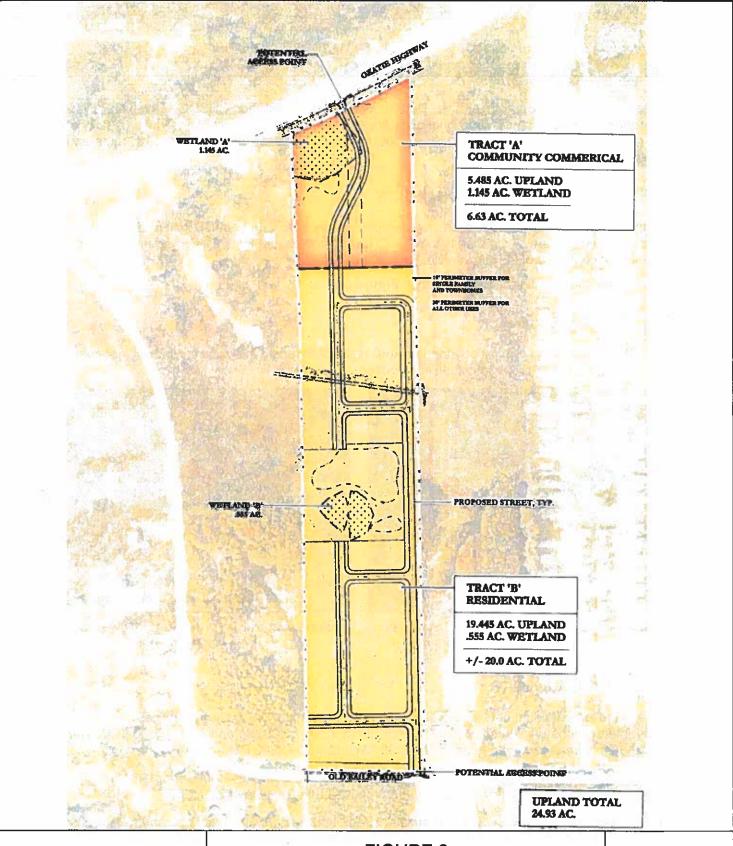




FIGURE 2

PROPOSED SITE PLAN

Bailey Park Traffic Impact Analysis - Jasper County, SC



Drawing Not to Scale

3. Existing Conditions

Resources on the South Carolina Department of Transportation (SCDOT) website were referenced to determine the functional classification and Annual Average Daily Traffic (AADT) of the roadways studied in this report. This data assisted with determination of growth rates and other analysis factors.

3.1 Roadway Characteristics

Okatie Highway (SC 170) is a 5-lane divided principal arterial with a speed limit of 55 miles per hour in the study area. According to the SCDOT traffic counts, the 2019 (Pre-Pandemic) average daily traffic consisted of 28,300 vehicles just east of the study area.

The existing lane configuration is shown in Figure 3.

3.2 Field Review

AECOM conducted a field visit on Monday, April 11, 2022 to record the existing roadway geometry and operations at the proposed study intersection.



Looking east towards proposed driveway location along SC 170



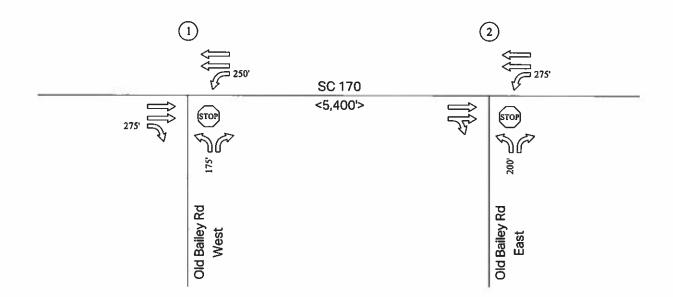
Looking east toward proposed driveway location along Old Bailey Road

3.3 Traffic Counts

Turning movement count data was collected by National Data and Surveying Services, Inc. at the study intersections on Thursday, April 7, 2022, from 7:00-9:00 AM and 4:00-6:00 PM. The peak hours were determined to be 7:00-8:00 AM and 4:00-5:00 PM.

An Average Daily Traffic (ADT) volume of 467 was collected over a 24-hour period on Thursday, April 7, 2022 along Old Bailey Road near the proposed Site Driveway #2.

The existing volumes are shown in **Figure 4**. Peak hour factors and truck percentages for the roadway are also reflected in the analysis. Traffic count data can be found in **Appendix A**.



LEGEND



Existing Laneage



Intersection Number



Distance Between Intersections



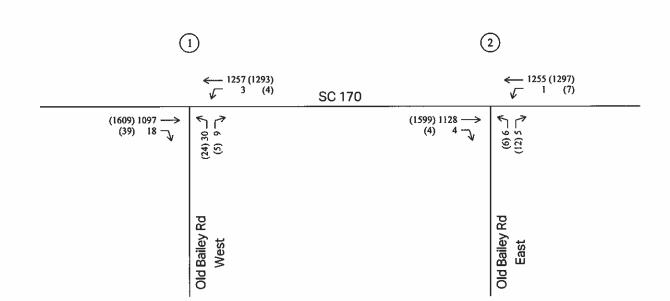
FIGURE 3

Existing 2022 Lane Configuration

Bailey Park Traffic Impact Analysis - Jasper County, SC



Drawing Not to Scale



LEGEND



Volume Movement



Intersection Number



AM Peak Hour Traffic Volume



(##) PM Peak Hour Traffic Volume



FIGURE 4

Existing 2022 AM / PM Peak Hour Volumes

Bailey Park Traffic Impact Analysis - Jasper County, SC



Drawing Not to Scale

4. Background Growth

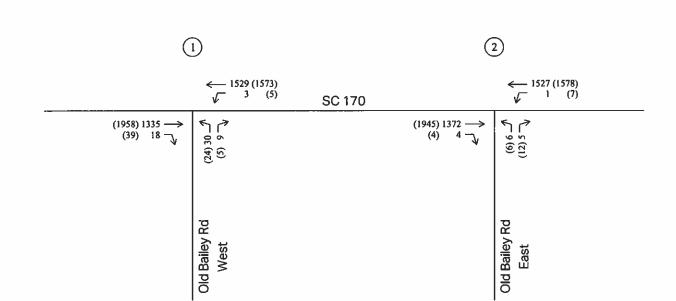
4.1 AADT Trends

Historic trend analysis of the data referenced from the SCDOT website shows growth rates in the study area at approximately 4 percent (4%) growth per year from 2014-2019. **Table 1** shows Annual Average Daily Traffic (AADT) Trends from 2014 to 2019.

Table 1 - AADT Trends

Road Name	Station	2014	2015	2016	2017	2018	2019	% Growth Rate
SC 170 from Jasper County Line to Beaufort County Line	184	23,100	22,200	22,900	23,600	25,500	28,300	4.14%

Background 2027 volumes are shown in Figure 5.



LEGEND



Volume Movement



Intersection Number



AM Peak Hour Traffic Volume



(##) PM Peak Hour Traffic Volume



FIGURE 5

Background 2027 AM / PM Peak Hour Volumes

Bailey Park
Traffic Impact Analysis - Jasper County, SC



Drawing Not to Scale

5. Trip Generation and Distribution

5.1 Trip Generation

AECOM used the Trip Generation Manual (Institute of Transportation Engineers, 10th Edition, 2017) to generate the site trips for the Bailey Park mixed-use development as shown in **Table 2**. The Trip Generation Handbook (Institute of Transportation Engineers, 3rd Edition, 2017) was referenced for determining whether to use the average rate or equation to generate projected traffic.

The development is planned to consist of 233 single family homes and 65,280 square feet of commercial development and is expected to be fully built out by 2027.

The Bailey Park mixed-use development is projected to generate 4,186 new daily trips (2,093 entering, 2,093 exiting) for a normal weekday. During the peak hours the proposed development is expected to generate 168 new trips (63 entering, 105 exiting) in the AM peak, and 374 new trips (199 entering, 175 exiting) during the PM peak.

Internal capture includes trips that start and end within the project site; therefore, trips do not affect external study intersections since they do not exit the development. According to the Trip Generation Handbook (Institute of Transportation Engineers, 2017) internal capture worksheets, approximately 2% of the AM and 25% of the PM peak hour site trips will be internally captured trips between the residential and retail land uses.

Pass-by includes trips already on the roadway network that are attracted by the retail development, enter and exit the development within the same peak hour. Based on proposed land uses, AECOM used 0% (AM peak) and 34% (PM peak) for the commercial development.

After internal capture and pass-by calculations, the proposed Bailey Park development is projected to generate 2,576 net new daily trips (1,288 entering, 1,288 exiting) for a normal weekday. During the peak hours the proposed development is expected to generate 164 net new trips (61 entering, 103 exiting) in the AM peak, and 213 net new trips (116 entering, 97 exiting) during the PM peak when constructed.

Detailed trip generation calculations are provided in **Appendix B**.

Table 2 - Trip Generation

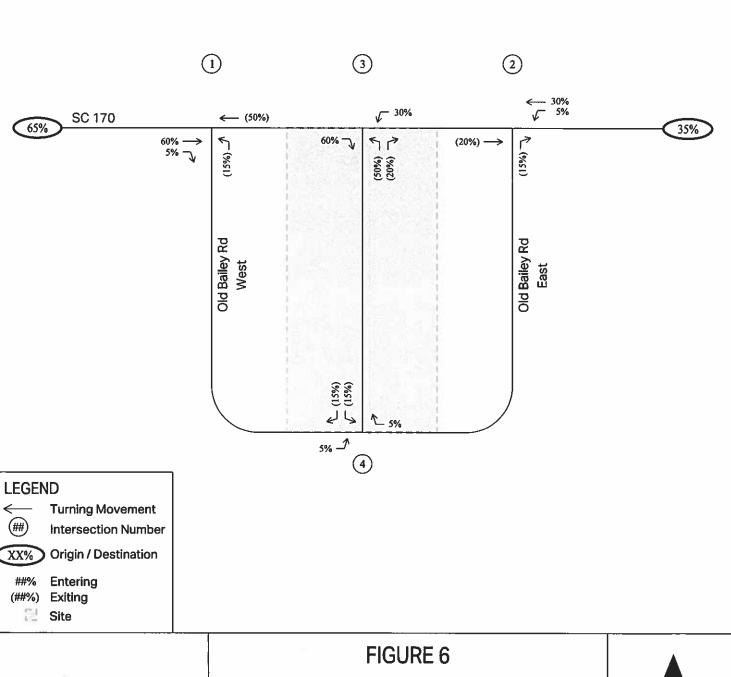
rable 2 – Trip Generation										
Land Use	ITE Daily				AM Peak Hour			PM Peak Hour		
Туре	Code	Total	Enter	Exit	Total	Enter	Exit	Total	Enter	Exit
65,280 SF Commercial	820	2,464	1,232	1,232	61	38	23	249	120	129
233 Townhomes	220	1,722	861	861	107	25	82	125	79	46
New Vehicle Trips		4,186	2,093	2,093	168	63	105	374	199	175
Internal Capture	-	3,266	1.633	1,633	164	61	103	282	153	129
Pass-By	-	690	345	345	0	0	0	69	37	32
Total External Site Trips	-	2,576	1,288	1,288	164	61	103	213	116	97

5.2 Trip Distribution

The planned development is to be accessed by a full access driveway along SC 170. Trip distributions for the Bailey Park mixed-use development were developed by analyzing existing traffic patterns at the study intersections. The distribution is described below:

- 65% to and from the west on SC 170
- 35% to and from the east on SC 170

Site trip distribution and assignment are presented in **Figure 6**. The AM site trips using this distribution are shown in **Figure 7**. The PM site trips using this distribution are shown in **Figure 8**.

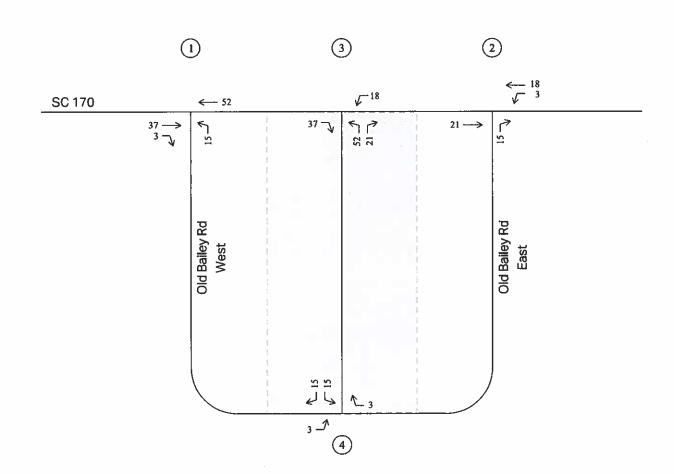


AECOM

Site Traffic Distribution

Bailey Park Traffic Impact Analysis - Jasper County, SC





LEGEND



Turning Movement



Intersection Number



AM Peak Hour Site Traffic Volume



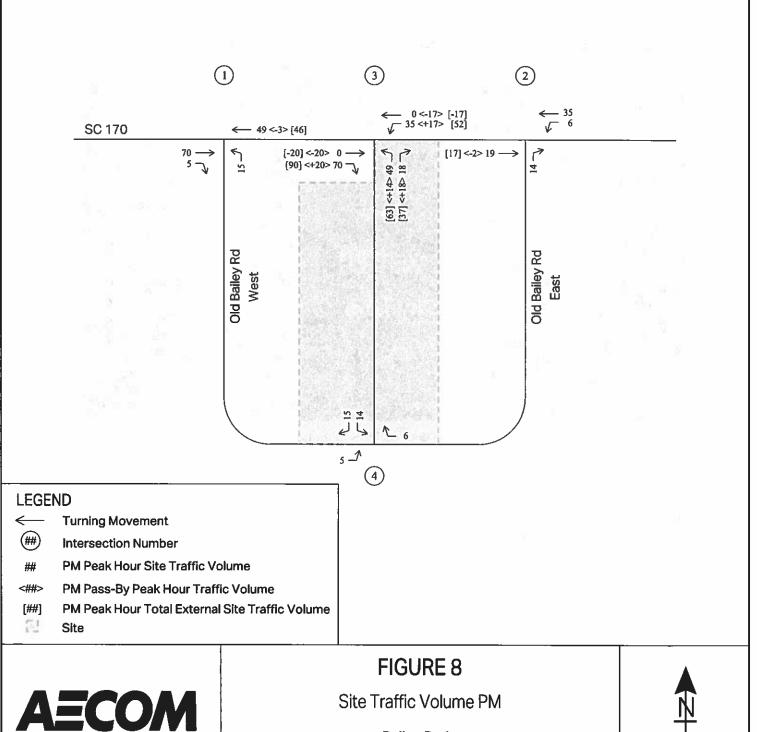


FIGURE 7

Site Traffic Volume AM

Bailey Park
Traffic Impact Analysis - Jasper County, SC

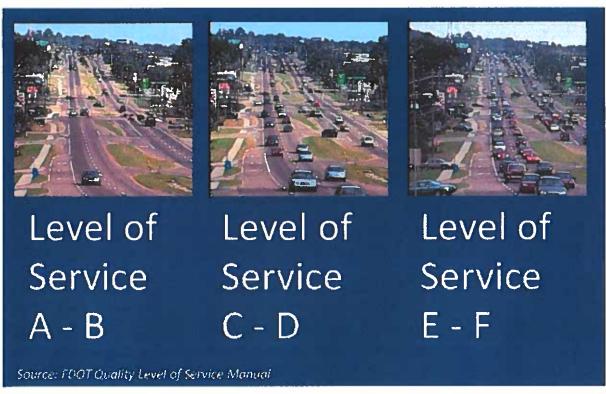




Bailey Park
Traffic Impact Analysis - Jasper County, SC

6. Capacity Analysis

The traffic carrying ability of a roadway is described by levels of service (LOS) that range from LOS A to LOS F. LOS A represents unrestricted maneuverability and operating speeds. LOS B represents reduced maneuverability and operating speeds. LOS C represents restricted maneuverability and operating speeds closer to the speed limit. LOS D represents severely restricted maneuverability and unstable, low operating speeds. LOS E represents operating conditions at or near the capacity level. LOS F represents breakdown conditions characterized by stop and go travel. A visual representation of each LOS is shown below.



The Highway Capacity Manual (HCM) 6 defines LOS at an unsignalized intersection by average control delay per vehicle, which includes initial deceleration delay, queue move-up time, stopped delay, and final acceleration delay. Several factors affect the controlled delay for unsignalized intersections, such as availability and distribution of gaps in the conflicting traffic stream, critical gaps, and follow-up time for a vehicle in the queue. The Highway Capacity Manual explains that drivers perceive that a signalized intersection is designed to carry higher traffic volumes and therefore expect to experience greater delays at signalized intersections. Unsignalized intersections are assigned a LOS for each minor movement. Typically, LOS D is considered the minimum acceptable level of service at an urban intersection. Table 3 presents LOS thresholds for unsignalized intersections.

Table 3 – LOS Thresholds for Unsignalized Intersections

Level of Service	Average Control Delay (sec/veh)
A B C D E F	< 10.0 > 10.0 and < 15.0 > 15.0 and < 25.0 > 25.0 and < 35.0 > 35.0 and < 50.0 > 50.0

AECOM performed an analysis using Synchro 11 (Build 0, Rev 8) for the study intersections. AECOM analyzed each scenario for the AM and PM peak hours.

AECOM determined the required laneage to satisfy the LOS requirement as well as the appropriate storage lengths to accommodate 95th percentile queuing. According to Highway Capacity Manual (HCM) 6, an acceptable Level-of-Service (LOS) is "D" or better with "A" having the shortest delays and "F" having the longest delays. Sim Traffic was used to report 95th percentile queuing.

Appendix C provides the volume calculation spreadsheets used to develop all capacity analysis scenarios.

6.1 Existing 2022

AECOM analyzed the Existing 2022 traffic conditions during the AM and PM peak hours at the study intersections. Figure 9 shows the Existing 2022 AM and PM peak hour volumes and LOS.

Table 4 presents a summary of the LOS, delay, and volume to capacity ratios for the Existing 2022 conditions.

Table 4 - Existing 2022 Summary of LOS and Delay

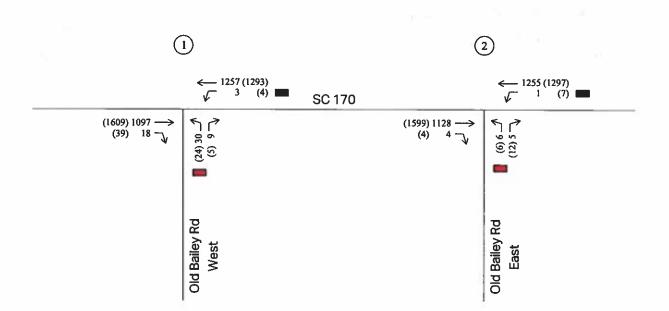
	Table 4 -	- Existing 2022	Summe	ITY OF LC	o anu	Delay		
ID#	Intersection	Approach	Lev	M 6 el of e (LOS)	De	ntrol lay /veh)	Volun Capacit (V/	y Ratio
			AM	PM	AM	PM	AM	PM
		EBR	Α	Α	0.0	0.0	-	-
1 1	SC 170 at 1 Old Bailey Road West	WBL	С	В	16.3	14.9	0.010	0.012
'	(Unsignalized)	NBL	D	E	26.5	48.0	0.228	0.306
	(NBR	В	С	13.6	16.9	0.034	0.025
		EB	Α	Α	0.0	0.0	-	-
2	SC 170 at	WBL	В	С	12.6	16.8	0.002	0.025
-	Old Bailey Road East (Unsignalized)	NBL	D	Ш	25.0	37.5	0.068	0.078
	, , , , , , , , , , , , , , , , , , , ,	NBR	В	C	13.1	18.4	0.024	0.065

The 95th percentile queues for the Existing 2022 scenario are shown in **Table 5**.

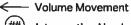
Table 5 - Existing 2022 Summary of 95th Percentile Queues

ID#	Intersection	Approach	Storage Length	95th Perce (f	ntile Queue t)
			(ft)	AM	PM
		EBR	275	0	0
1	SC 170 at	WBL	250	21	22
'	Old Bailey Road West (Unsignalized)	NBL	175	72	93
	(3	NBR	•	42	24
	SC 170 at	WBL	275	8	19
2	Old Bailey Road East	NBL	200	32	22
	(Unsignalized)	NBR	_	26	41

Synchro 11 and Sim Traffic outputs from the Existing 2022 analysis are provided in Appendix D.



LEGEND



Intersection Number

AM Peak Hour Traffic Volume (##) PM Peak Hour Traffic Volume Site Unsignalized LOS (Critical Peak Hour)

LOS E/F

LOS D

LOS A/B/C



FIGURE 9

Existing 2022 AM / PM Peak Hour Volumes & LOS

Bailey Park
Traffic Impact Analysis - Jasper County, SC



6.2 Background 2027

AECOM analyzed the Background 2027 traffic conditions during the AM and PM peak hours at each study intersection. As previously mentioned, this is an analysis of conditions in the year 2027 if the project is not constructed.

Table 6 presents a summary of the LOS, delay, and volume to capacity ratios for the Background 2027 conditions. As indicated in the table below, the northbound left turns experience a high level of delay due to the high east-west traffic volume on SC 170 and the 4% annual growth.

Table 6 - Background 2027 Summary of LOS and Delay

27	Table 6 – E	ackground 20	2/ Sumr	nary or i	LOS an	d Dela	у	
ID#	Intersection	Approach	Leve	M 6 el of e (LOS)	De	itrol lay 'veh)	Volun Capacit (V/	y Ratio
			AM	PM	AM	PM	AM	PM
		EBR	Α	Α	0.0	0.0	-	-
,	SC 170 at	WBL	С	С	20.2	18.9	0.014	0.021
1	Old Bailey Road West (Unsignalized)	NBL	D	F	33.5	77.4	0.210	0.356
	(37.3.g.1.2.3.)	NBR	С	С	15.4	20.8	0.028	0.024
		EB	Α	Α	0.0	0.0	-	-
	SC 170 at	WBL	В	С	14.8	22.0	0.003	0.035
2	Old Bailey Road East (Unsignalized)	NBL	D	F	32.0	56.9	0.048	0.088
	(5.15.3.74.254)	NBR	В	С	14.7	22.9	0.015	0.062

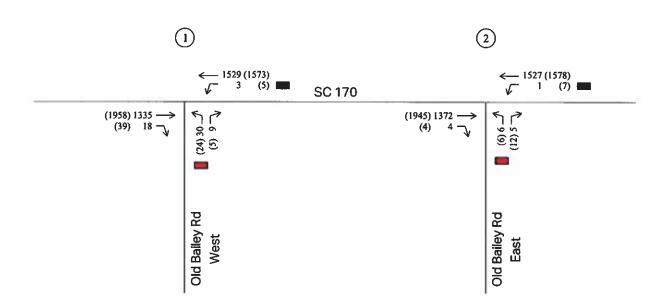
Figure 10 shows the Background 2027 AM and PM peak hour volumes and LOS.

The 95th percentile queues for the Build 2027 scenario are shown in **Table 7**.

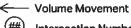
Table 7 - Background 2027 Summary of 95th Percentile Queues

ID#	Intersection	Approach	Storage Length		ntile Queue t)
			(ft)	AM	PM
		EBR	275	0	0
1	SC 170 at	WBL	250	16	12
	Old Bailey Road West (Unsignalized)	NBL	175	75	314
H	(J. G.	NBR	-	36	373
	SC 170 at	WBL	275	0	17
2	Old Bailey Road East	NBL	200	29	17
	(Unsignalized)	NBR	-	25	40

Synchro 11 and Sim Traffic outputs from the Background 2027 analysis are provided in **Appendix** E.



LEGEND



Intersection Number

AM Peak Hour Traffic Volume

AM Peak Hour Traffic Volume (##) PM Peak Hour Traffic Volume Unsignalized LOS (Critical Peak Hour) LOS E/F

LOS A/B/C



FIGURE 10

Background 2027 AM / PM Peak Hour Volumes & LOS

Bailey Park Traffic Impact Analysis - Jasper County, SC



6.3 Build 2027

AECOM analyzed the Build 2027 traffic conditions during the AM and PM peak hours at the study intersection. This is an analysis of conditions in the year 2027 if the development is constructed.

Based on SCDOT turn lane warrants, a westbound left and eastbound right turn lane are both warranted at Site Driveway #1. The right turn lane warrant for the eastbound approach can be found in **Appendix F**. A left turn lane is recommended on all divided highways able to accommodate them according to the SCDOT ARMS Manual.

In the Build 2027 scenario, the minor approach at Site Driveway #1 intersecting with SC 170 is expected to operate with a poor level of service and experience significant queuing. The following items were recommended for this scenario:

SC 170 at Site Driveway #1

- Construct a 150-foot eastbound right turn lane on SC 170 at Site Driveway #1.
- Construct a northbound left-turn lane along with 200-foot right-turn lane on Site Driveway
 #1 at SC 170

While these recommendations may not fully mitigate congestion during peak hours, the following additional improvement should be considered:

 Install a sign at Site Driveway #1 that prohibits vehicle from turning left out of driveway during 7-9 AM and 4-6 PM. As a result of vehicles being restricted from turning left out of Site Driveway #1, the intersection of SC 170 at Bailey Road West should be monitored as future signalization may be warranted at a later time.

Old Bailey Road at Site Driveway #2

 Construct a single lane southbound approach on Site Driveway #2 at Old Bailey Road under stop control. No significant delay is expected at this driveway.

Table 8 presents a summary of the LOS, delay, and volume to capacity ratios for the Build 2027 conditions.

Table 8 - Build 2027 Summary of LOS and Delay

	Tubic	- Dulla LOLI (Janninai	OI LOC	dita E	Cluy		
ID#	Intersection	Approach	Level of	M 6 Service DS)	De	ntrol lay /veh)	Volum Capacit (V/	y Ratio
			AM	PM	AM	PM	AM	PM
		EBR	Α	Α	0.0	0.0	-	-
1	SC 170 at Old Bailey Road West	WBL	С	С	22.3	21.6	0.016	0.025
'	(Unsignalized)	NBL	E	F	43.9	160.3	0.355	0.734
		NBR	С	С	16.3	23.3	0.030	0.028
		EB	Α	Α	0.0	0.0	-	-
2	SC 170 at	WBL	С	С	16.1	24.2	0.014	0.072
-	Old Bailey Road East (Unsignalized)	NBL	E	F	36.2	63.6	0.055	0.098
	(NBR	С	D	16.2	26.0	0.064	0.144
	SC 170 at	WBL	В	D	13.8	26.7	0.047	0.259
3	Site Driveway #1	NBL	E	F	44.9	235.1	0.396	1.061
	(Unsignalized)	NBR	С	D	15.9	25.8	0.066	0.192
4	Old Bailey Road at Site Driveway #2	EB	Α	Α	7.2	7.3	0.002	0.003
	(Unsignalized)	SB Approach	Α	Α	8.7	8.7	0.033	0.032

Figure 11 shows the proposed Build 2027 proposed laneage and Figure 12 shows the Build 2027 AM and PM peak hour volumes and LOS. As indicated in the tables, the northbound approaches at intersections #1 (Old Bailey Road West) and #3 (Site Driveway #1) with SC 170 are expected experience significant delay and queuing. It should be noted that the volume to capacity ratio is less than 1.0 at the Old Bailey Road West intersection and not likely to warrant a traffic signal.

The 95th percentile queues for the Build 2027 scenario are shown in **Table 9**.

Table 9 - Build 2027 Summary of 95th Percentile Queues

ID#	Intersection	Approach	Storage Length		ntile Queue t)
			(ft)	AM	PM
		EBR	275	0	0
1	SC 170 at	WBL	250	22	18
	Old Bailey Road West (Unsignalized)	NBL.	175	96	324
	(- · · · · · · · · · · · · · · · · · ·	NBR	-	30	611
	SC 170 at	WBL	275	17	32
2	Old Bailey Road West	NBL	200	32	40
	(Unsignalized)	NBR	-	41	66
	SC 170 at	WBL	150	29	67
3	Site Driveway #1	NBL	-	104	757
	(Unsignalized)	NBR	-	33	45
4	Old Bailey Road at Site Driveway #2	EBL	-	0	0
. *	(Unsignalized)	SB Approach	-	43	42

Synchro 11 and Sim Traffic outputs from the Build 2027 analysis are provided in Appendix G

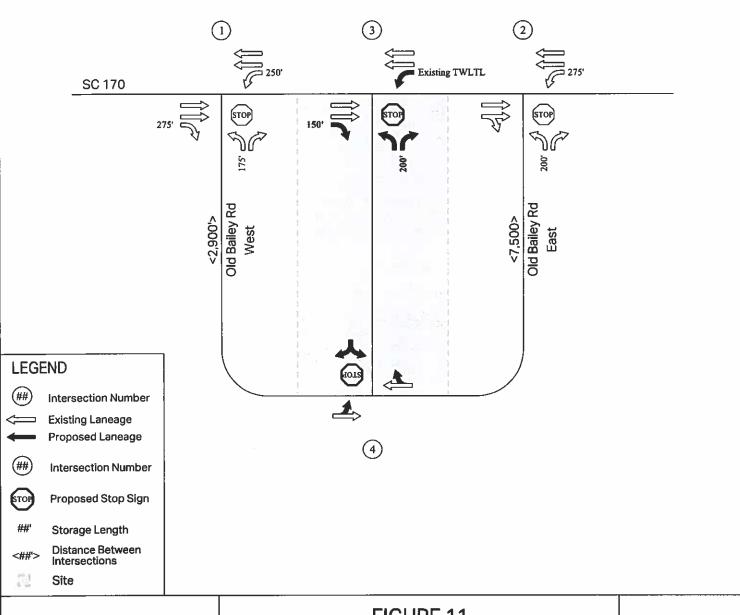


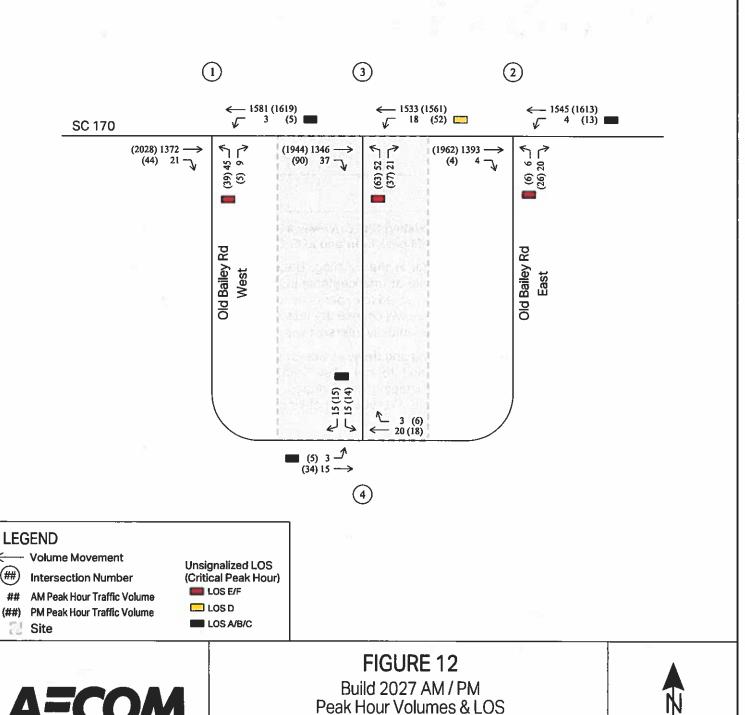


FIGURE 11

Build 2027 Lane Configuration

Bailey Park
Traffic Impact Analysis - Jasper County, SC





Bailey Park Traffic Impact Analysis - Jasper County, SC

7. Conclusions and Recommendations

AECOM analyzed multiple scenarios for the Bailey Park development. A summary of the LOS and delay for each scenario is summarized in **Table 10**.

Table 10 - Scenario Summary of LOS and Delay

		Table 10 - 3	ociiai io o	diffilliary c	7 EOO and	a Dolay		
				Level	of Service	and Dela	y (sec)	
ID#	Intersection	Approach	2022 E	xisting	2027 Bac	kground	2027	Build
			AM	PM	AM	PM	AM	PM
1	SC 170 at Old Bailey Road West	NB Left	D (26.5)	E (48.0)	D (33.5)	F (77.4)	E (43.9)	F (160.3)
2	SC 170 at Old Bailey Road East	NB Left	D (25.0)	E (37.5)	D (32.0)	F (56.9)	E (36.2)	F (63.6)
3	SC 170 at Site Driveway #1	NB Left		-	_	-	E* (44.9)	F* (235.1)
4	Old Bailey Road at Site Driveway #2	SB Approach	-	-	-	-	A (8.8)	A (8.9)

^{*}Installing sign prohibiting no left-turn existing Site Driveway #1 during the AM and PM peak hours is expected to improve LOS to D in the AM peak hour and LOS C during the PM peak hour.

The summary table above indicates that in the Existing, Background, and Build scenarios the study intersections along SC 170 operate at unacceptable LOS on the minor approaches. The Site Driveway #1 approach should be expected to experience long queues during the peak hours. It is likely that traffic from the development will choose the less congested route such as using the Old Bailey Road back driveway which eventually intersect with SC 170.

A future consideration to improve queuing and delay at Site Driveway #1 would be to allow exiting vehicles to a northbound right only and to not allow northbound left turns. This access configuration could be achieved with restriping and signage. Northbound left turning vehicles would then have the option to access SC 170 via both of its intersections with Old Bailey Road through the back access Site Driveway #2.

As access is restricted along all northbound site driveways along SC 170 in general study area, warrants are likely to be met for a traffic signal at Old Bailey Road West. Traffic from the Bailey Park development and other sites along Old Bailey Road would likely opt to use the signal to turn left onto SC 170 to avoid long queues and delay at unsignalized intersections.

The growth rate used in this study was 4%. This is a conservative growth rate and does result in significant growth in background traffic. This is not an unreasonable growth rate to use based on historic traffic counts but if growth does not continue at this rate, traffic congestion may not be to the level indicated in this report.

As development increases along SC 170, a corridor study may be necessary to determine a long-term solution to alleviate congestion and safety. These solutions may include raised median barriers along SC 170 combined with dedicated U-turn sites which would help encourage the right-out only movement from Site Driveway #1.

Appendix A – Traffic Count Data

Day: Thursday Date: 4/7/2022

										Groups		- Cars,	PU, Va												
		\$R \$-1		d Balle)	/ Rd W			SRS-		d Balley	RdW			SF	t 170/OI		wy			ş	R 170/01		y		
· [bound						bound					Eastb			1			Westb				
Start Time	Left	Thru	Rgt		Peds	App Total		Thru		Uturn	Peds	kop Total		Thru	Rgt			Log Total	Left	Thru	Rgt	Uturn	Peds /		
7.00 AM	7	0	- 1	0	0	8	0	0	Ð	- 0	0	0	0	258	7	0	0	265	1	349	0	0	Ô	350	623
7.15 AM	10	0	6	0	0	16	0	0	0	-0	0	0	0	287	6	0	0	293	0	332	0	Q.	Q	332	841
7.30 AM	7	0	2	0	0	9	0	0	0	- 0	0	0	0	294	3	0	0	297	1	321	0	Q.	Q.	322	828
7:45 AM	8	0	0	0	0	6	.0	0	0	0	0	0	0	25B	2	0	0	260	1	255	0	0	00	256	522
Total	30	0	9	0	0	39	0		0	-0	Ô	0	0	1097	18	0	0	1115	3	1257	0	0	Ò	1260	2414
8 00 AM	- 4	0	0	0	0	4	0	0	0	0	0	0	0	256	3	0	0	259	1	241	0	0	Đ	242	505
8 15 AM	6	0	0	0	0	8	0	0	0	0	Ó	0	0	219	1	0	0	220	1	269	0	Û	0	270	498
8 30 AM	3	0	0	0	0	3	0	0	0	0	0	0	0	218	4	0	0	222	0	261	0	0	-0	281	506
8 45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	225	5	0	0	230	3	249	0	0	0	252	482
Total	15	0	0	0	0	15	0	0	0	0	0	0	0	918	13	0	0	931	5	1040	0	Û	Û	1045	1991
BREAK																									
4 00 PM	8	0	3	0	0	11	0	0	0	0	0	0	0	409	11	0	0	420	1	369	0	0	0	370	601
4 15 PM	2	0	1	0	0	3	0	0	0	0	0	0	0	422	11	0	0	433	3	326	0	0	0	329	765
4 30 PM	8	0	1	0	0	9	0		0	0	0	0	0	391	9	0	0	400	0	321	0	0	0	321	730
4 45 PM	Ĝ	0	0	Û	0	- 6	0		0	0	0	- 0	0	387	â	0	0	395	0	277	0	Û	0	277	678
Total	24	0	5	0	0	29	0	0	0	0	0	0	0	1609	39	Û	0	1648	- 4	1293	0	0	0	1297	2974
5 00 PM	3	0	1	0	0	4	0	0	0	0	0	0	0	327	8	0	0	335	1	251	0	0	0	252	591
5.15 PM	5	0	1	0	0	6	0	0	0	0	0	c	0	298	11	0	0	309	0	216	0	0	0	216]	531
5 30 PM	1	0	0	0	0	1	0	0	0	0	-0	0	0	247	8	0	0	253	1	200	0	0	0	201	455
5 45 PM	0	0	2	0	0	2	0		0	0	0	0	0	185	6	0	0	191	1	155	0	0	0	158	349
Total	9	0	4	0	0	13	0	0	0	0	0	Û	0	1057	31	0	0	1088	3	822	Ö	0	0	825	1926
Grand Total	78	0	18	0	0	96	0		0	0	0	0	0	4681	101	0	0	4782	15	4412	0	0	0	4427	9305
Approh %	813	00	108	0.0	0.0		00	0.0	0.0	0.0	0.0		00	97 9	2.1	0.0	00	- 1	03	99.7	0.0	0.0	0.0	- 1	
Total %	0.8	0.0	02	0.0	0.0	10	0.0		0.0	0.0	0.0	0.0	0.0	50 3	11	0.0	0.0	514	0.2	47 4	0.0	0.0	0.0	47.6	
Cars, PU, Vans	75	0	17	0		92	0		0	0		0	0	4460	97	0		4557	12	4239	0	0		4251	8900
% Cars. PU. Vans.	96.2	0.0	94 4	0.0		95 6	0.0	0.0	0.0	0.0		0.0	0.0	953	96 0	0.0		95 3	80 0	96 1	0.0	0.0		96 0	95 6
Heavy trucks	3	0	1	0		4,	- 0			0		0	0	221	4	0		225	3	173	0	Q.		175	405
WHeavy bucks	38	0.0	5.6	0.0		42	0.0	0.0	0.0	0.0		0.0	0.0	47	40	0.0		47	20.0	39	0.0	0.0		40	44

Project ID: 22-150013-001

Location: City:		18/014	Sailey R	& W b	SR 170	VOluatie I	twy	P	EAK	HC)UR	3						Day: 1 Date: 4			
	SR		Old Bail		W	SR S			ey Rd W				/Okatie					0/Okatie			
			rthboun					thboun					stbound		1			estbound			
Start Time			Rgt		Law Total	Left	Thru	Rgt	Uturn 🛶	e Tota	Left	Thru	Rgt	Uturn 1	Lgo Total	Left	Thru	Rgt	Jturn 4	400 Total	Int Total
Peak Hour for En					IAM .																
7 00 AM	7	0	1	0	8	0	0	0	0	이	0	258	7	0	265	1	349	0	0	350	623
7 15 AM	10	0	6	0	16	0	0	0	0	0	0	287	6	0	293	0	332	0	0	332	641
7 30 AM	7	0	2	0	9	0	0	0	0	이	0	294	3	0	297	1	321	Û	0	322	628
7 45 AM	6	0	0	0	6	0	0	0	0	0	0	258	2	0	260	1	255	Q	0	256	522
Total Volume	30	0	9	0	39	0	0	0	0	0	0	1097	18	0	1115	3	1257	0	0	1260	2414
% App Total	76 9	0.0	23 1	0.0	100	0.0	0.0	0.0	0.0	0	0.0	98 4	16	0.0	100	02	99 8	0.0	0.0	100	
PHF					0 609										0 939					0 900	0 941
Cars, PU, Vans	29	0	8	0	37	0	0	0	0	- 0	0	1021	17	0	1038	1	1201	0	0	1202	2277
% Cars PU Vans	96 7	0.0	86 9	0.0	94 9	0.0	0.0	0.0	0.0	0.0	0.0	93 1	94 4	0.0	93 1	33 3	95 5	0.0	0.0	95 4	94 3
Heavy trucks	- 1	0	1	0	2	0	0	0	0	0	- 0	76	1	0	77	2	58	0	0	58	137
Shifeavy trucks	33	0.0	11.1	0.0	5 1	0.0	0.0	0.0	0.0	0.0	0.0	6.9	56	0.0	69	66.7	45	0.0	0.0	46	57
PM																					
	SR		Old Bail		ן א	SRS			ey Rd W	' I			/Okatie		- 1			0/Okatie			
			rthboun					thboun		-			stbound					estbound			- T - 1
Start Time	Left		Rgt I		loo fee	Left	Thru	R/GE	Liturn 🕹	e fore	Left	Thru	Rgt	Liturn 1	Lpo 10th	Lest	Thru	Rgt 1	Juru	App focu	Int Total
Peak Hour Analys Peak Hour for En					PM																
4 00 PM	В	0	3	0	11	0	0	0	0	이	- 0	409	11	0	420	1	369	0	0	370	801
4 15 PM	2	- 0	1	0	3	0	0	0	0	이	0	422	11	0	433	3	326	0	0	329	765
4 30 PM	В	0	1	0	9	0	0	0	0	이	- 0	391	9	0	400	0	321	0	0	321	730
4 45 PM	6	0	0	0	6	0	0	0	0	0	0	387	В	0	395	0	277	0	0	277	678
Total Volume	24	0	5	0	29	0	0	0	0	0	0	1609	39	0	1648	4	1293	0	0	1297	2974
% App_Total	82.8	0.0	17.2	0.0	100	0.0	0.0	0.0	0.0	0	0.0	976	24	0.0	100	0.3	99 7	0.0	0.0	100	
PHF					0 659										0 952					0 876	0 928
Cars, PU, Vans	23	0	5	0	28	Q	0	0	Q.	0	0	1570	37	0	1607	4	1269	0	Q	1273	2908
% Cars PU Vars	_95 B	_00	100.0	0.0	95 6	0.0	0.0	0.0	0.0	0,0	0.0	97 6	94 9	0.0	97 5	100 0	98 1	0.0	00	98 1	97.8
Heavy trucks	1	0	0	0	1	0	0	0	0	이	0	39	2	0	41	Ô	24	0	Ð	24	66
%Heavy trucks	4 2	0.0	0.0	0.0	34	0 0	0.0	0 0	00	0 0	0.0	24	5 1	0.0	2 5	0.0	19	00	00	19	22

						_			- 0	roups	Printed -	Cars,	PU, Va												
				3-7-18					SR S					\$1		ricelle Hy	ry			Ś	R 170/06		y .		
				bound		_			South							bound					Westb				
Start Time	Left	Thru	Rgt			App Total			Rgt			y Total		Thru	Rgt	Uturn			Left	Thru (Peds	App Total	
7:00 AM	4	0	2	0	0	- 6	0	0	0	- 0	0	이	0	267	- 1	0	0	268	1	345	0	0	0	346	620
7:15 AM	1	0	1	0	0	2	0	0	0	0	0	이	0	295	1	0	0	296	0	336	0	0	0	336	634
7:30 AM	0	0	1	0	0	1	0	0	0	0	0	이	0	295	0	- 1	0	296	0	310	- 0	0	0	310	607
7:45 AM	1	0	1	0	0	2	0	0	_ 0	0	0	이	0	271	2	0	0	273	0	264	0	0	0	264	538
Total	- 6	0	5	0	0	11	0	0	0	0	0	0	0	1128	4	1	0	1133	1	1255	Q	0	0	1256	2400
6:00 AM	0	0	1	0		- 1	0	0	0	0	0	이	0	266	- 1	0	0	267	2	246	0	- 0	0	248	516
8:15 AM	1	. 0	2	0		3	0	0	0	0	0	ol	0	233	0	. 0	0	233	1	263	0	- 0	0	264	500
8:30 AM	2	. 0	1	0	. 0	3	0	0	0	0	0	ol	0	205	0	0	0	205	- 1	273	0	Ó	ā	274	482
8 45 AM	1	0	3	0	0	4	0	0	0	0	0	ol	- 0	237	1	0	0	238	. 0	262	ō	0	Ö	262	504
Total ****BREAK***	- 4	. 0	7	0	. 0	11	. 0	0	0	0	0	0	0	941	2	0	0	943	4	1044	0	Ō	0		
BNEAK																									
4 00 PM	1		3	0	. 0	4	0	0	0	0	0	ol	0	402	2	0	0	404	0	361	0	0	0	361	769
4 15 PM	2	- 0	- 5	0		7]	0	0	0	0	0	ol	0	429	0	0	0	429	1	332	. 0		0	333	769
4.30 PM	3		2	0	. 0	5	0	0	0	0	0	ol	0	391	1	0	0	392	4	316	0	. 0	ō	320	717
4.45 PM	0	. 0	2	0	0	2	0	0	0	0	0	Ó	0	377	- 1	0	0	378	2	268	0	0	0		670
Yotal	8	. 0	12	0	- 0	18	0	0	0	0	0	0	0	1599	- 4	0	0	1603	7	1297	0	0	Ö		2925
5:00 PM	1	. 0	2	0	. 0	3	0	0	0	0	0	ol	0	336	2	0	0	338	1	261	0		0	262	603
5:15 PM	1	. 0	5	0	. 0	6	0	0	0	0	0	ol	0	311	1	0	0	312	5	205	0		0	210	529
5:30 PM	2	. 0	1	0	. 0	3	0	0	0	0	0	. 0	0	254	0	0	0	254	3	211	0	- 0	0	214	471
5:45 PM	0	0	4	0	0	4	0	0	0	0	Ó	ol	Ö	186	0	0	0	186	3	162	0	0	ō		355
Total	4	0	12	0	0	16	0	0	0	0	0	Ó	0	1087	3	0	0	1090	12	839	0	0	0		
Grand Total	20	0	36	0	0	56]	0	0	0	0	0	이	0	4755	13	1	0	4769	24	4435	0	0	0	4459	9284
Approh %	35 7	0.0	64 3	0.0	0.0	i	0.0	00	0.0	0.0	0.0	- 1	0.0	997	0.3	0.0	0.0		0.5	99 5	0.0	0.0	0.0	57.53	
Total %	02	0.0	04	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	512	0.1	0.0	0.0	514	0.3	47.B	0.0	0.0	0.0	480	
Cars, PU, Vans	18	0	35	-0		53	0	0	0	0		Ö	0	4533	13	1		4547	21	4261	0	0		4282	8882
% Cars, PU, Vans	90.0	0.0	97.2	0.0		94 6	0.0	0.0	0.0	0.0		0.0	0.0	95.3	100 0	100 0		95.3	87.5	96.1	0.0	0.0		98.0	95.7
Heavy trucks	2	0	1	0		3]	0	0	0	0		Ö	0	222	0	0		222	- 3	174	0	D		177	402
%Heavy trucks	100	0.0	28	0.0		54	0.0	0.0	0.0	0.0		0.0	0.0	47	0.0	0.0		47	12.5	3.9	0.0	0.0		40	

Project ID: 22-150013-002 Location: SR 9-7-18 & SR 170/Okatin Hwy City: Ridgetand

PEAK HOURS

Day: Thursday

City:	Ridgelar	nd							LAI	· ITC	/UIN	,						Date: 4	/7/202	5	
			R S-7-18					8-7-18					/Okatie				SR 17	0/Okatle	Hwy	\neg	
l		No	ribboun	d				thboun		0.00		Ea	stboun	d			WA	estbound	1		
Start Time		Thru	Rgt	Uturn .	Lpg Tytu	Left	Titru	Rgt	Uturn	pe Total	Leh	Theu	Rgt	Utuin	App. Tem	Left	Thru	Rgt I	Uturn.	App Note: 1	Int Total
eak Hour Analys	us from (77:00 A	M - 09 0	MAQ																	
eak Hour for Ent	rrefni end	ection	Begins :	d 07.00	MA																
7:00 AM	4	0	2	0	6	0	0	0	0	ol	0	267	1	0	268	1	345	0	0	346	620
7 15 AM	. 1	- 0	1	0	2	0	0	0	0	0	. 0	295	- 1	0	298	0	336	9	Ó	336	634
7:30 AM	0	0	1	0	- 1	0	0	0	0	0	. 0	295	. 0	1	298	0	310	0	0	310	607
7:45 AM	1	- 0	1	0	2	0	0	0	0	0	0	271	2	0	273	0	264	0	0	284	539
Total Volume	- 6	0	5	0	11	0	0	0	0	- 0	- 0	1128	4	1	1133	1	1255	0	0	1256	2400
% App Total	54 5	0.0	45 5	0.0	100	0.0	0.0	0.0	0.0	Q	0.0	996	0.4	0 1	100	0.1	99.9	0.0	0.0	100	
PHF					0 458										0 957					0.908	0 946
Cars, PU, Vans	5	0	5	- 0	10	0	0	0	0	0	.0	1056	- 4	1	1061	0	1199	0	0	1199	2270
% Cars, PU, Vans	83 3	0.0	100 0	0.0	909	0.0	0.0	0.0	0.0	0.0	0.0	93.6	100 0	100.0	938	0.0	95 5	0.0	0.0	95.5	94 8
Heavy trucks	- 1	0	0	0	- 1	0	0	- 0	0	0	. 0	72	0	0	72	1	56	Q	0	57	130
%Heavy trucks	167	0.0	0.0	0.0	9 1	0.0	0.0	0.0	0.0	0.0	0.0	6.4	0.0	0.0	6.4	100 0	4.5	0.0	0.0	45	5.4
																				-	
·M																					
			3.7-18					\$-7-18		- 1			Okatie					0/Okatle			
			<u>rthboun</u>					thboun					stboun					es (bound			
tart Time	Left	Thru	Rgt	Uturn	lgo Total	Left	Thru	Rgt	Uturn la	ক তিয়	Left	Thru	Rgt	Uturn	Lop Total	Left	Thru	Rgt I	Jturn	Apa Tota I	int Total
esk Hour Analys esk Hour for Ent	bre intere			t 04 00	PM																
4 00 PM	1	0	3	0	- 4	0	0	0	Û	0	0	402	2	0	404	0	361	0	0	361	769
4.15 PM	2	0	5	0	7	0	0	0	0	0	0	429	0	0	429	1	332	0	0	333	769
4 30 PM	3	0	2	0	5	0	0	0	0	0	0	391	1	0	392	4	316	0	Ð	320	717
4.45 PM	- 0	-0	2	0	2	0	0	0	0	0	0	377	1	0	378	2	288	Û	0	290	670
Total Volume	- 6	0	12	0	18	0	0	0	0	9	Ō	1599	4	0	1603	7	1297	0	0	1304	2925
% App Total	33.3	0.0	66 7	0.0	100	0.0	0.0	0.0	0.0	0	0.0	99 8	02	0.0	100	0.5	99 5	0.0	0.0	100	
PHF					0 643										0 934					0 903	0 951
Care, PU, Vans	6	0	11	0	17	0	0	0	0	0	0	1560	4	0	1584	6	1273	0	0	1279	2860
% Cars. PU. Vans	100.0	0.0	91.7	0.0	94.4	0.0	0.0	0.0	0.0	0.0	0.0	976	100 0	0.0	97.6	85 7	981	0.0	0.0	98.1	97 t
Heavy trucks	0	0	_ 1	0	_ 1	0	0	0	0	0	0	39	0	0	39	1	24	0	0	25	65
%Heavy trucks	0.0	0.0	83	0.0	5.6	0.0	0.0	0.0	0.0	0.0	0.0	24	0.0	0.0	2.4	143	1.0	0.0	0.0	101	77

Prepared by NDS/ATD

VOLUME

SR S-7-18 W/O Old Baileys Cir

Day: Thursday Date: 4/7/2022 City: Ridgeland
Project #: SC22_150014_001

	DAILY TOTA	ALS.		NB	SB		EB		VB				11		tal
	DAILTIOTA	113		0	0		252	2	15					40	67
AM Period	NB SB	E	В	WB	TO	TAL	PM Period	NB	S		В	WB			TAL
00:00 00:15		1 0		0	1 0		12:00 12:15				7 8	5 2	- 2	12 10	
00:30		0		Ö	ŏ		12:30				5	4		9	
00:45		0		0	0	1	12:45				4 24	4	15	8	39
01:00 01:15		0		0	0		13:00 13:15				5 4	5 6		10 10	
01:30		Ö		Ö	Ö		13:30				5	4		9	
01:45		0		0	0	1	13:45				2 16	4	19	6	35
02:00 02:15		1 0		1	1	100	14:00 14:15				1 1	7		8 5	
02:30		0		Ô	ô		14:30				2	4		6	
02:45		0	1	0 2	0	3	14:45				3 7	1	16	4	23
03:00 03:15		0		0	0		15:00 15:15				4 4	4		8	
03:30		0		0	0		15:30				8	2		10	
03:45		0		0	0		15:45				4 20	5	11	9	31
04:00		0		0	0		16:00 16:15				10	6		16	
04:15 04:30		0		1 0	0		16:30				5 6	3		8 10	
04:45		- 0		0 1	0	1	16:45			DESTU SETURGE	13 34	5	18	18	52
05:00		0		3	3		17:00				5	3		8	
05:15 05:30		0		0 1	0 2	1	17:15 17:30				8 6	6 2		14 8	
05:45		2		3 7	5	10	17:45				4 23	5	16	9	39
06:00		0		3	3	100000	18:00		0.00		5	3		8	
06:15 06:30		1 3		7 5	8		18:15 18:30				7 6	2 1		9	
06:45		2		4 19	6	25	18:45				6 24	ŝ	11	11	35
07:00		2		7	9		19:00				4	2		6	
07:15 07:30		3 6		4	7 10		19:15 19:30				6 6	2 2		8	
07:45		4		5 20	9	35	19:45				1 17	2	8	3	25
08:00		1		6	7		20:00				7	0		7	
08:15 08:30		0		5 3	5 5		20:15 20:30				3 2	0		3 2	
08:45		0		2 16	2	19	20:45				3 15	ŏ		3	15
09:00		0		4	4		21:00				0	2		2	
09:15 09:30		2		0	2		21:15 21:30				2 4	0		2	
09:45		2		3 9	5	15	21:45				0 6	1 3	6	3	12
10:00	7.25	4		0	4		22:00				4	2		6	
10:15		2		2	4		22:15 22:30				1 0	2		3	
10:30 10:45		1 6		4	5 7	20	22:45				1 6	0	4	1	10
11:00		1		3	4		23:00				2	1		3	
11:15		1		2	3 7		23:15 23:30				0 0	0	2	1 0	
11:30 11:45		4		3 0 8	2	16	23:45				1 3	0	2	1	5
TOTALS		erome.	57	89		146	TOTALS	10.00			195		126		321
SPLIT %			39.0%	61.09	6	31.3%	SPLIT %		0.0000000		60.7	16	39.3%		68.7%
		150							MD.					-	a di
	DAILY TOTA	ALS		NB 0	SB 0		EB 252		VB 15					_	otal 67
		- 6					-		10						444
AM Peak Hour			11.45	06:1	5	07:00	PM Peak Hour				16:0)	13:15		16:00
AM Pk Volume Pk Hr Factor			22 0.688	23 0.82		35 0.875	PM Pk Volume Pk Hr Factor				34 0.654		0.750		52 0.722
7 - 9 Volume	22.002	0	18	36		54	4 - 6 Volume		03	0	57		34		91
7 - 9 Peak Hour			07:00	07:0)	07:00	4 - 6 Peak Hour				16:00)	16:00		16:00
/-yra	0		15	20		35	4 - 6 Pk			0	34		18		52
Pk Hr Factor	0.000	0.000	0.625	0.714	1	0.875	Pk Hr Factor	0.	000	0.000	0.654	1	0.750		0.722

Appendix B – Trip Generation

	•	Bailey Park Table 2 - 1	100								
			np Gene	Daily		AA	A Peak He	our	PA	A Peak Ho	our
Land Use	Inte	ensity	Total	ln -	Out	Total	In	Out	Total	In	Out
320 Shopping Center	65.28	1000 SF GLA	2,464	1,232	1,232	61	38	23	249	120	129
220 Townhomes	233	Dwelling Units	1,722	861	861	107	25	82	125	79	46
Subtotal			4,186	2,093	2,093	168	63	105	374	199	175
Internal Capture											
820 Shopping Center			460	120	340	2	1	1	46	12	34
220 Townhomes			460	340	120	2	1	1	46	34	12
	AM	PM					3				
Internal Capture Total	2.38%	24.60%	920	460	460	4	2	2	92	46	46
Total External Trips			3,266	1,633	1,633	164	61	103	282	153	129
Pass-By Traffic (ITE)	АМ	<u>PM</u>									
820 Shopping Center	0%	34%	690	345	345	0	0	0	69	37	32
Pass-By Total.	18	.45%	690	345	345	0	0	0	69	37	32
Total Net New External Trips			2,576	1,288	1,288	164	61	103	213	116	97

Project Name:	Bailey Park TIA
Analysis Period:	AM Street Peak Hour

		Table 7-A: Conv	ersion of Vehicle	-Tri	p Ends to Person-Trip	Ends			
Land Use	Tab	le 7-A (D): Enter	ing Trips	П	Table 7-A (O): Exiting Trips				
Land USB	Veh. Occ.	Vehicle-Trips	Person-Trips*		Veh. Occ.	Vehicle-Trips	Person-Trips*		
Office	1.00	0	0	1	1.00	0	0		
Retail	1.00	38	38	1	1.00	23	23		
Restaurant	1.00	0	0	1	1.00	da O	0		
Cinema/Entertainment	1.00	0	0	1	1.00	0	0		
Residential	1.00	25	25]	1.00	82	82		
Hotel	1.00	0	0	1	1.00	0	0		

	Table 0-X	(O). Internal r	eraon-rrip origin-	Destination Matrix (Compute Destination (To)	d at Origin)	
Origin (From)	Office	Retai	Residential	Hotel		
Office	in Contract Line	0	Restaurant 0	Cinema/Entertainment 0	0	0
Retail	7	Aresta Landing	3	0	3	0
Restaurant	0	0		0	0	0
Cinema/Entertainment	0	0	0	DERMAND DOING THE OWNER.	0	0
Residential	2	1	16	0		0
Hotel	0	0	0	0	0	ALL CONTRACTOR OF THE PARTY OF

	Table 8-A (D): Internal Pers	son-Trip Origin-De	stination Matrix (Computer	d at Destination)						
Origin (From)	Destination (To)										
Origin (From)	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel					
Office	NEW STREET	12	0	0 1	0	0					
Retail	0	second 'cysus'	0	0	1	0					
Restaurant	0	3	THE RESERVE OF THE PARTY OF	0	1	0					
Cinema/Entertainment	0	0	0	Straintenance of the strain	0	. 0					
Residential	0	6	0 _	0	AS VEHICLES (ASSESSED VALUE OF THE PARTY OF	0					
Hotel	0	2	0	0	0	Should be seen to be					

	Та	ble 9-A (D): Int	ernal and Externa	ıl Tri	ps Summary (Enterin	g Trips)		
Destination Land Use	I	Person-Trip Esti	imates	П	External Trips by Mode*			
	Internal	External	Total] [Vehicles ¹	Transit ²	Non-Motorized ²	
Office	0	0	0	7	0	0	0	
Retail	1	37	38	7 [37	0	0	
Restaurant	0	0	0	7 [0	0	0	
Cinema/Entertainment	0	0	0	1 [0	0	0	
Residential	1	24	25	l F	24	0	0	
Hotel	0	0	0	7 I	0	0	0	
All Other Land Uses ³	0	0	0	\coprod	0	0	0	

	Ta	able 9-A (O): Int	ternal and Externa	al Tri _l	os Summary (Exiting	Trips)	
Origin Land Use	F	Person-Trip Estir	mates	External Trips by Mode*			
Origin Land Ose	Internal	External	Total] [Vehicles ¹	Transit ²	Non-Motorized ²
Office	0	0	0	1 Г	0	0	0
Retail	1	22	23	1 [22	0	0
Restaurant	0	. 0	0	1 [0	0	0
Cinema/Entertainment	0	0	0	1 Г	0	0	0
Residential	1	81	82	1 [81	0	0
Hotel	0	0	0	1 [0	0	0
All Other Land Uses ³	0	0	0	1 [0	0	0

¹ Vehicle-trips computed using the mode solit and	

Person-Trips

3-Total estimate for all other land uses at mixed-use development site is not subject to internal trip capture computations in this estimator

*Indicates computation that has been rounded to the nearest whole number.

Project Name:	Bailey Park TIA
Analysis Period:	PM Street Peak Hour

·	Ts	ble 7.P. Conver	sion of Vehicle-Tr	in f	Ends to Person-Trip En	ds.	
		7-P (D): Entering					
Land Use	Veh. Occ.	Vehicle-Trips	Person-Trips*	1	Veh. Occ.	Vehicle-Trips	Person-Trips*
Office	1.00	0	0	1	1.00	0	0
Retail	1.00	120	120	1	1.00	129	129
Restaurant	1.00	0	0	1	1.00	0	0
Cinema/Entertainment	1.00	0	0	1	1.00	0	0
Residential	1.00	79	79]	1.00	46	46
Hotel	1.00	0	0		1.00	0	0

	Table 8-P	O): Internal Pers	son-Trip Origin-De	stination Matrix (Compute	d at Origin)							
Origin (France)		Destination (To)										
Origin (From)	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel						
Office	COLUMN TO SERVE AND ADDRESS OF THE PERSON NAMED IN COLUMN	0	0	0	0	0						
Retail	3	AUSTIMERULE	37	5	34	6						
Restaurant	0	0	Tallball To Tall	0	0	0						
Cinema/Entertainment	0	0	0	Name of the Party	0	0						
Residential	2	19	10	0	THE ROOM OF THE PARTY OF THE	1						
Hotel	0	0	0	0	0	I THE RESIDENCE						

	Table 8-P (D): I	internal Person	-Trip Origin-Desti	nation Matrix (Computed a	t Destination)	
Osisia (Faran)		<u>-</u>	•	Destination (To)		
Origin (From)	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel
Office	dulles by when y	10	0	0	3	0
Retail	0		0	0	36	0
Restaurant	0	60	1 (100 VIII (100	0	13	0
Cinema/Entertainment	0	5	0		3	. 0
Residential	0	12	0	0	plant supplied the supplied	0
Hotel	0	2	0	0	0	The subject the last last

				rips :	Summary (Entering Tri		
Destination Land Use	Pe	erson-Trip Estima	tes			External Trips by Mode*	
Destination Land Use	Internal	External	Total	1 [Vehicles ¹	Transit ²	Non-Motorized ²
Office	0	0	0	1 [0	0	0
Retail	12	108	120	ΙГ	108	0	0
Restaurant	0	0	0	1 [0	0	0
Cinema/Entertainment	0	0	0	1 [0	0	0
Residential	34	45	79	1Г	45	0	0
Hotel	0	0	0	1 [0	0	0
All Other Land Uses ³	0	0	0	1 Г	0	0	0

	Та	ble 9-P (O): Inte	rnal and External	Trip	s Summary (Exiting Tri	ips)	
Origin Land Han	Pe	erson-Trip Estima	ites	П		External Trips by Mode*	
Origin Land Use	Internal	External	Total]	Vehicles ¹	Transit ²	Non-Motorized ²
Office	0	0	0]	0	0	0
Retail	34	95	129]	95	0	0
Restaurant	0	0	0]	0	0	0
Cinema/Entertainment	0	0	0]	0	0	0
Residential	12	34	46]	34	0	0
Hotel	0	0	0] [0	0	0
All Other Land Uses ³	0	0	0		0	0	0

TVehicle-trips computed using the mode split and vehicle occupancy values provided in Table 2-P
Person-Trips
Total estimate for all other land uses at mixed-use development site is not subject to internal trip capture computations in this estimator Indicates computation that has been rounded to the nearest whole number.

Appendix C – Intersection Calculation Spreadsheets

Intersection #1 SC 170 at Old Bailey Rd West

AM Peak Hour

			SC 170		,	SC 170 Nestboun	d	1	Bailey Rd \			- iouthbour	nd.
_	-1-41		astbound	_	Left		_	Left	Through	_	Left	Through	_
Desc	ription	Left	Through	Right	Leit	Through	Right	Leit	mougn	Right	Leit	Trilough	rtigitt
2022	Raw Traffic Count	0	1.097	18	3	1.257	0	30	0	9			
2022		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Growth Adjustment Factor												
	Adjustment Amount	0	0	0	0	0	0	0	0	0	0	0	0
2022	Peak Hour Volume	0	1,097	18	3	1,257	0	30	0	9	0	0	0
	Annual Growth Rate	4.0%	4.0%	0.0%	0.0%	4.0%	4.0%	0.0%	0.0%	0.0%	4.0%	4.0%	4.0%
1	Background Growth	0	238	0	0	272	00	0	0	0	0	0	0
2027	No-Build Peak Hour Volume	0	1,335	18	3	1,529	0	30	0	9	0	0	0
					1								
	% Entering	0%	60%	5%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	Entering Site Traffic	0	37	3	0	0	0	0	0	0	0	0	0
	% Exiting	0%	0%	0%	0%	50%	0%	15%	0%	0%	0%	0%	0%
l.	Exiting Site Traffic	0	0	0	0	52	0	15	0	0	0	0	0
	Total Site Trips	0	37	3	0	52	0	15	0	0	0	0	0
	Pass-by Trips	0	0	0	0	0	0	0	0	0	0	0	0
	Total External Site Traffic	0	37	3	0	52	0	15	0	0	0	0	0
2027	Build Peak Hour Volume	0	1,372	21	3	1,581	0	45	0	9	0	0	0

		SC 170			SC 170		Old	Bailey Rd \	Vest	<u> </u>	-	
	ا	Eastbound	<u>i</u>	3	Nestboun	<u>d</u>	7	lorthboun	<u>d</u>	<u>s</u>	outhbour	ıd .
Description	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right
2022 Raw Traffic Count	0	1.609	39	4	1.293	0	24	0	5			
Growth Adjustment Factor	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Adjustment Amount	0.0	0	0	0	0	0	0	0	0	0	0	0
2022 Peak Hour Volume	0	1,609	39	4	1,293	0	24	0	5	0	0	0
Annual Growth Rate	4.0%	4.0%	0.0%	4.0%	4.0%	4.0%	0.0%	0.0%	0.0%	4.0%	4.0%	4.0%
Background Growth	0	349	0	1	280	0	0	0	0	0	0	0
2027 No-Build Peak Hour Volume	0	1,958	39	5	1,573	0	24	0	5	0	0	0
% Entering	0%	60%	5%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Entering Site Traffic	0	70	5	0	0	0	0	0	0	0	0	0
% Exiting	0%	0%	0%	0%	50%	0%	15%	0%	0%	0%	0%	0%
Exiting Site Traffic	o	0	0	0	49	0	15	0	0	0	0	0
Total Site Trips	0	70	5	0	49	0	15	0	0	0	0	0
Pass-by Trips	0	0	0	0	-3	0	0	0	0	0	0	0
Total External Site Traffic	0	70	5	0	46	0	15	0	0	0	0	0
2027 Build Peak Hour Volume	0	2,028	44	5	1,619	0	39	0	5	0	0	0

Intersection #2 SC 170 at Old Bailey Rd East

AM Peak Hour

			SC 170			SC 170			Bailey Rd			-	
			Eastbound	_]]	<u> Vestboun</u>	_	7	<u>lorthboun</u>	_	<u>s</u>	outhbour	<u>ıd</u>
Desc	ription	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right
2022	Raw Traffic Count	0	1,128	4	1	1,255	0	6	0	5	0	0	0
	Growth Adjustment Factor	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Adjustment Amount	0	0	0	0	0	0	0	0	0	0	0	0
2022	Peak Hour Volume	0	1,128	4	. 1	1,255	0	6	0	5	0	0	0
	Annual Growth Rate	4.0%	4.0%	0.0%	0.0%	4.0%	4.0%	0.0%	0.0%	0.0%	4.0%	4.0%	4.0%
	Background Growth	0	244	0	0	272	0	0	0	0	0	0	0
2027	No-Build Peak Hour Volume	0	1,372	4	1	1,527	0	6	0	5	0	0	0
													-
l	% Entering	0%	0%	0%	5%	30%	0%	0%	0%	0%	0%	0%	0%
	Entering Site Traffic	0	0	0	3	18	0	0	0	0	0	0	0
	% Exiting	0%	20%	0%	0%	0%	0%	0%	0%	15%	0%	0%	0%
	Exiting Site Traffic	0	21_	0	0	0	0	0	0	15	0	0	0
	Total Site Trips	0	21	0	. 3	18	0	0	0	15	0	0	0
	Pass-by Trips	0	0	0	0	0	0	0	0	0	0	0	0
	Total External Site Traffic	0	21	0	3	18	0	0	0	15	0	0	0
2027	Build Peak Hour Volume	0	1,393	4	4	1,545	0	6	0	20	0	0	0

		SC 170		<u> </u>	SC 170		Old	Bailey Rd	East			
		Eastbound	<u>il</u>	<u> </u>	Nestboun	d	N	lorthboun	<u>d</u>	<u>s</u>	outhbour	<u>ıd</u>
Description	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right
2022 Raw Traffic Count		1.599	4	7	4 007				40	ু		
	0				1,297	0	6	0	12	0	0	0
Growth Adjustment Factor	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Adjustment Amount	0	0	0	0	0	0	0	0	0	0	0	0
2022 Peak Hour Volume	0	1,599	4	7	1,297	0	6	0	12	0	0	0
Annual Growth Rate	4.0%	4.0%	0.0%	0.0%	4.0%	4.0%	0.0%	0.0%	0.0%	4.0%	4.0%	4 0%
										11.00		
Background Growth	0	346	0	0	281	0	0		0	0	0	0
2027 No-Build Peak Hour Volume	0	1,945	4	7	1,578	0	6	0	12	0	0	0
% Entering	0%	0%	0%	5%	30%	0%	0%	0%	0%	0%	0%	0%
Entering Site Traffic	0	0	0	6	35	0	0	0	0	0	0	0
% Exiting	0%	20%	0%	0%	0%	0%	0%	0%	15%	0%	0%	0%
Exiting Site Traffic	0	19	0	0	0	0	0	0	14	0	0	0
Total Site Trips	0	19	0	6	35	0	0	0	14	0	0	0
Pass-by Trips	0_	-2	0	0	0	0	0	0	0	0	0	0
Total External Site Traffic	0	17	0	6	35	0	0	0	14	0	0	0
2027 Build Peak Hour Volume	0	1,962	4	13	1,613	0	6	0	26	0	0	0



Intersection #3 SC 170 at Site Driveway #1

AM Peak Hour

	<u> </u>		SC 170 Eastbound	1	,	SC 170 Vestboun	<u>d</u>		e Driveway Iorthboun		<u>s</u>	iouthbour	nd
Desci	ription	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right
2022	Raw Traffic Count	l	1,106			1.260							
2022		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Growth Adjustment Factor					0.0%		0.0%					
2022	Adjustment Amount Peak Hour Volume	0	1 106	0	0	1,260	0	0	0	0	0	0	0
2022	Peak Hour Volume	U	1,106	U	U	1,200	U	U	U	U	, U	Ų	U
	Annual Growth Rate	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%
	Background Growth	0	240	0	Ιo	273	0	ه ا	0	0	١٥	0	0
	Existing Phase Remaining Traffic												
2027	No-Build Peak Hour Volume	0	1,346	0	0	1,533	0	0	0	0	0	0	0
	% Entering	0%	0%	60%	30%	0%	0%	0%	0%	0%	0%	0%	0%
		0	0%	37	18	0	0	0	0	0	0	0	0
	Entering Site Traffic % Exiting	0%	0%	0%	0%	0%	0%	50%	0%	20%	0%	0%	0%
	55 (N.Y.	0%	0%	0%	0%	0%	0%	52	0%	20%	0	0%	0%
	Exiting Site Traffic	-									_		
┝	Total Site Trips	0	0	37	18	0	0	52_	0	21	0	0	0
	Pass-by Trips	0	0	0	0	0	0	0	0	0	0	0	0
	Total External Site Traffic	0	0	37	18	0	0	52	0	21	0	0	0
2027	Build Peak Hour Volume	0	1,346	37	18	1,533	0	52	0	21	0	0	0

			SC 170			SC 170		Sit	e Driveway	/#1		-	
		- 4	Eastboun	<u>d</u>	1 1	<u>Nestboun</u>	<u>d</u>	1	Vorthboun	<u>d</u>	<u>s</u>	outhbour	ıd
Descr	ription	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right
2022	Raw Traffic Count		1.614			1,297							
	Growth Adjustment Factor	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Adjustment Amount	0	0	0	0	0	0	0	0	0	0	0	0
2022	Peak Hour Volume	0	1,614	0	0	1,297	0	0	0	0	0	0	0
				- 100		100	680	120	-00				
	Annual Growth Rate	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%
	Background Growth	0	350	0	0	281	0	0	0	0	0	0	0
	Existing Phase Remaining Traffic	_											
2027	No-Build Peak Hour Volume	0	1,964	0	0	1,578	0	0	0	0	0	0	0
						***			***				
	% Entering	0%	0%	60%	30%	0%	0%	0%	0%	0%	0%	0%	0%
	Entering Site Traffic	0	0	70	35	0	0	0	0	0	0	0	0
	% Exiting	0%	0%	0%	0%	0%	0%	50%	0%	20%	0%	0%	0%
	Exiting Site Traffic	0	0	0	0	0	0	49	0	19	0	0	0
	Total Site Trips	0	0	70	35	0	0	49	0	19	0	0	0
	Pass-by Trips	0	-20	20	17	-17	0	14	0	18	0	0	0
	Total External Site Traffic	0	-20	90	52	-17	0	63	0	37	0	0	0
2027	Build Peak Hour Volume	0	1,944	90	52	1,561	0	63	0	37	0	0	0

Intersection #4 Old Bailey Rd at Site Driveway #2

AM Peak Hour

		ı	ld Bailey F Eastbound			ld Bailey R Vestboun		<u> </u>	- Iorthboun	<u>d</u>		e Driveway outhbour	
Desc	ription	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right
2022	Raw Traffic Count	ļ	18			36							
2022	Growth Adjustment Factor	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Adjustment Amount	0.078	0.070	0.076	0.076	0.076	0.076	0.078	0.0%	0.0%	0.0%	0.0%	0.0%
2022	Peak Hour Volume	0	18	0	0	36	0	0	0	0	0	0	0
				0.256					The same of the sa			170.00	-
1	Annual Growth Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%
	Background Growth	0	0	0	0	0	0	0	0	0	0.	0	0
2027	No-Build Peak Hour Volume	0	18	0	0	36	0	0	0	0	0	0	0
	% Entering	5%	0%	0%	0%	0%	5%	0%	0%	0%	0%	0%	0%
	Entering Site Traffic	3	0	0	0	0	3	0	0	0	0	0	0
	% Exiting	0%	0%	0%	0%	0%	0%	0%	0%	0%	15%	0%	15%
L	Exiting Site Traffic	0	0	0	0	0	0	0	0	0	15	0	15
	Total Site Trips	3	0	0	0	0	3	0	0	0	15	0	15
	Pass-by Trips	0	0	0	0	0	0	0	0	0	0	0	0
	Total External Site Traffic	3	0	0	0	0	3	0	0	0	15	0	15
2027	Build Peak Hour Volume	3	18	0	0	36	3	0	0	0	15	0	15

			old Bailey F	ld		ld Bailey F	₹d_		*		Sit	e Driveway	/ #2
		j	Eastbound	1	7	Nestboun	₫	1	lorthboun	<u>d</u>	2	outhbour	<u>1d</u>
Desc	ription	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right
2022	Raw Traffic Count		57			34		35066					
	Growth Adjustment Factor	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Adjustment Amount	0	0	0	0	0	0	0	0	0	0	. 0	0
2022	Peak Hour Volume	0	57	0	0	34	0	0	0	0	0	0	0
	Annual Growth Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%
	Background Growth	٥١	0	0	٥١	0	0	0	0	0	l۰	0	0
2027	No-Build Peak Hour Volume	0	57	0	0	34	0	0	0	0	0	0	0
							•						
	% Entering	5%	0%	0%	0%	0%	5%	0%	0%	0%	0%	0%	0%
	Entering Site Traffic	5	0	0	0	0	6	0	0	0	0	0	0
	% Exiting	0%	0%	0%	0%	0%	0%	0%	0%	0%	15%	0%	15%
	Exiting Site Traffic	0	0	0	0	0	0	0	0	0	14	0	15
	Total Site Trips	5	0	0	0	0	6	0	0	0	14	0	15
	Pass-by Trips	0	0	0	0	0	0	0	0	0	0	0	0
<u> </u>						100		-	177	-			
	Total External Site Traffic	5	0	0	0	0	.6	0	0	0	14	0	15
2027	Build Peak Hour Volume	5	57	0	0	34	6	0	0	0	14	0	15

Appendix D – Existing Synchro and SimTraffic Reports

	→	1	•	—	1	- /	
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR	2000
Lane Configurations	44	7	ň	44	ሻ	7	
Traffic Volume (vph)	1097	18	3	1257	30	9	
Future Volume (vph)	1097	18	3	1257	30	9	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	Titl
Storage Length (ft)		275	250		175	0	
Storage Lanes		1	1		1	1	
Taper Length (ft)	100	and the	100		100		
Lane Util. Factor	0.95	1.00	1.00	0.95	1.00	1.00	
Frt		0.850				0.850	
FIt Protected		No.	0.950		0.950		
Satd. Flow (prot)	3374	1524	1081	3438	1752	1455	
FIt Permitted			0.950		0.950	N	
Satd. Flow (perm)	3374	1524	1081	3438	1752	1455	
Link Speed (mph)	55			55	30	1	
Link Distance (ft)	1485			2650	1171		
Travel Time (s)	18.4		JI	32.9	26.6		
Peak Hour Factor	0.94	0.94	0.90	0.90	0.61	0.61	
Heavy Vehicles (%)	7%	6%	67%	5%	3%	11%	
Adj. Flow (vph)	1167	19	3	1397	49	15	
Shared Lane Traffic (%)	WAR WATER			and the same		CANDA .	
Lane Group Flow (vph)	1167	19	3	1397	49	15	
Enter Blocked Intersection	No	No	No	No	No	No	
Lane Alignment	Left	Right	Left	Left	Left	Right	
Median Width(ft)	12	-		12	12		
Link Offset(ft)	0			0	0		
Crosswalk Width(ft)	16	5.11		16	16		
Two way Left Turn Lane	Yes			Yes			
Headway Factor	1,00	1.00	1.00	1.00	1.00	1.00	-
Turning Speed (mph)		9	15		15	9	
Sign Control	Free			Free	Stop		
Intersection Summary						10.7	
	Other	-/-					- W
Area Type: Control Type: Unsignalized	Miei						
Intersection Capacity Utilizat	ion 44 70/			17	MII over	of Service /	٨
	1011 44.7%		Sold of	IC	o revei	of Service /	4
Analysis Period (min) 15							

							NAME OF THE PARTY
ntersection					100	ADDRESS OF THE	
Int Delay, s/veh	0.6						
Movement	EBT	EBR	WBL	WBT	NBL	NBR	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Lane Configurations	^	7	7	^	7	7	
Traffic Vol. veh/h	1097	18	3	1257	30	9	
Future Vol, veh/h	1097	18	3	1257	30	9	
Conflicting Peds, #/hr	0	0	Q	0	0	0	
Sign Control	Free	Free	Free	Free	Stop	Stop	
RT Channelized	-	None		None	•	None	
Storage Length	-	275	250	-	175	0	
Veh in Median Storage,		•		0	2	-	
Grade, %	0	-	-	0	0	-	
Peak Hour Factor	94	94	90	90	61	61	
Heavy Vehicles, %	7	6	67	5	3	11	
Mvmt Flow	1167	19	3	1397	49	15	
Major/Minor M	lajor1	1	Major2	N	/linor1	= :	
Conflicting Flow All	0	0	1186		1872	584	
Stage 1			1100	Ě	1167	-	
Stage 2	_				705	-	
Critical Hdwy			- 44		6.86	7.12	
Critical Hdwy Stg 1	_	_	-		5.86	-	
Critical Hdwy Stg 2	- 6	_			5.86		
Follow-up Hdwy	(4)		2.87	-	3.53	3.41	Smilles Correnge
Pot Cap-1 Maneuver		-	323	-	63	433	
Stage 1	-	-		-	256		
Stage 2		11-	-	(-)	448		
Platoon blocked, %	-			-			
Mov Cap-1 Maneuver			323		62	433	
Mov Cap-2 Maneuver	-	-	-	-	216	-	
Stage 1	-				256	-	
Stage 2	-	-	-	-	444	-	
TO LANGE TO LANGE		Me I		edia tura			
Approach	EB	1110	WB	distant.	NB		IN THE RESERVE OF STREET
HCM Control Delay, s	0		0	-	23.5		
HCM LOS	Ü		ū		23.5 C	N	
I IOW EOO					Ų		
			unu c	gad on the	-	11151	WIDT
Minor Lane/Major Mvm		NBLn11		EBT	EBR	WBL	WBT
Capacity (veh/h)		216	433	-	-	323	
HCM Lane V/C Ratio		0.228			•	0.01	<u> </u>
HCM Control Delay (s)		26.5	13.6	-	-	16.3	
HCM Lane LOS		D	В		_	С	•
HCM 95th %tile Q(veh)		0.8	0.1	- J	-	0	

	\rightarrow	7	-	★	1	1
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	† }		٦	44	7	7
Traffic Volume (vph)	1128	4	1	1255	6	5
Future Volume (vph)	1128	4	1	1255	6	5
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (ft)		0	275		0	200
Storage Lanes		0	1		1	1
Taper Length (ft)			100		100	
Lane Util. Factor	0.95	0.95	1.00	0.95	1.00	1.00
Frt	0.999	7.7	78761			0.850
Fit Protected			0.950		0.950	The started
Satd. Flow (prot)	3403	0	1444	3438	1543	1615
FIt Permitted			0.950	California	0.950	
Satd. Flow (perm)	3403	0	1444	3438	1543	1615
Link Speed (mph)	55		25701410	55	30	1111111
Link Distance (ft)	2727			1381	1408	
Travel Time (s)	33.8			17.1	32.0	E NY D
Peak Hour Factor	0.96	0.96	0.91	0.91	0.46	0.46
Heavy Vehicles (%)	6%	0%	25%	5%	17%	0%
Adj. Flow (vph)	1175	4	Se 1	1379	13	11
Shared Lane Traffic (%)		L. U.		Walter	11 740	81
Lane Group Flow (vph)	1179	0	1	1379	13	11
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(ft)	12		rest was been	12	12	×
Link Offset(ft)	0		32 E.	0	0	
Crosswalk Width(ft)	16	11:35	لإستالا	16	16	
Two way Left Turn Lane	Yes			Yes		
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)		9	15		15	9
Sign Control	Free	1		Free	Stop	
Intersection Summary		11 N	C25-5-76	3011 3	113	December 1
	Other			300	om Water	
Age Arms or a process	Juner					
Control Type: Unsignalized	ion A # 701			12	NIIIT	-6 Ca - 1
Intersection Capacity Utilizat	ion 44.7%			10	U Level	of Service
Analysis Period (min) 15						

			-			
Intersection		W.			v Sidos	i deleta X
Int Delay, s/veh	0.2		777.0			
-		EDD	18/01	MOT	MPL	MPD
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	1		7	44	4	7
Traffic Vol, veh/h	1128	4	1	1255	6	5
Future Vol, veh/h	1128	4	1	1255	6	5
Conflicting Peds, #/hr		0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	T" 1-	None	-	None		None
Storage Length		-	275	-	0	200
Veh in Median Storage	e,# 0		0.4	0	2	
Grade, %	0	-		0	0	-
Peak Hour Factor	96	96	91	91	46	46
Heavy Vehicles, %	6	0	25	5	17	0
Mymt Flow	1175	4	1	1379	13	11
nit i joi	1110	I	-	1010	10	
Karata an Ata	17.7.7		A. S. B.		41	
	Major1		Major2		/linor1	
Conflicting Flow All	0	0	1179	0	1869	590
Stage 1	-			-	1177	-
Stage 2	,,	•		-	692	-
Critical Hdwy	-	-	4.6	-	7.14	6.9
Critical Hdwy Stg 1				-	6.14	-
Critical Hdwy Stg 2	-	-		-	6.14	
Follow-up Hdwy	-		2.45	_	3.67	3.3
Pot Cap-1 Maneuver	T.	-	474		54	456
Stage 1	-		-	-	226	-
Stage 2		- W -		1.55	420	-
Platoon blocked, %		-		-		
Mov Cap-1 Maneuver			474		54	456
Mov Cap-2 Maneuver			-		193	-
Stage 1					226	
Stage 2		Viniting.	min selection	-	419	
Stage Z		-	-		413	
	_		-			
Approach	EB		WB		NB	ШД
HCM Control Delay, s	0		0		19.6	
HCM LOS					С	
Minor Lanciblaine Maria	ا ام	MDI n41	מת ופוג	EDT	EPD	MIDI
Minor Lane/Major Mvr	nt l	NBLn11		EBT	EBR	WBL
Capacity (veh/h)		193	456	J. 100	-	474
HCM Lane V/C Ratio			0.024	-		0.002
HCM Control Delay (s	}	25	13.1	-	-	
HCM Lane LOS		D	В	-	-	В
HCM 95th %tile Q(veh	1)	0.2	0.1	10.002	-	0

	-	>	1	-	4	-		
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR		TO ISSUE
Lane Configurations	**	1	7	† †	4	7		
Traffic Volume (vph)	1609	39	4	1293	24	5		
Future Volume (vph)	1609	39	4	1293	24	5		
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900		100
Storage Length (ft)	L. Carrielle	275	250		175	0		
Storage Lanes		1	1		1	1		
Taper Length (ft)			100		100			
ane Util. Factor	0.95	1.00	1.00	0.95	1.00	1.00		
rt		0.850				0.850		
It Protected		Community of the Commun	0.950		0.950			
Satd. Flow (prot)	3539	1538	1805	3539	1736	1615	- ******	
It Permitted			0.950		0.950			
atd. Flow (perm)	3539	1538	1805	3539	1736	1615		
ink Speed (mph)	55		81	55	30		* ***	
ink Distance (ft)	1485			2650	1171			
ravel Time (s)	18.4			32.9	26.6			2
eak Hour Factor	0.95	0.95	0.88	0.88	0.66	0.66		
eavy Vehicles (%)	2%	5%	0%	2%	4%	0%		VEH TO THE
dj. Flow (vph)	1694	41	5	1469	36	8		
hared Lane Traffic (%)	- Indiana							
ane Group Flow (vph)	1694	41	- 5	1469	36	8	Secretary Williams	
nter Blocked Intersection	No	No	No	No	No	No		
ane Alignment	Left	Right	Left	Left	Left	Right		
ledian Width(ft)	12	2		12	12			
ink Offset(ft)	0			0	0		12	
rosswalk Width(ft)	16			16	16		Control Control	
wo way Left Turn Lane	Yes			Yes				
eadway Factor	1.00	1.00	1.00	1.00	1.00	1.00		
urning Speed (mph)		9	15		15	9	e medate	
ign Control	Free			Free	Stop			
tersection Summary	NIS-II C	ELEVS.	0.000					
	Other	- 122			2 200			
Control Type: Unsignalized	Other							
control Type: Unsignalized ntersection Capacity Utiliza	ation 54.5%			IC	CU Level	of Service A		W
nalysis Period (min) 15							1000	

ntersection	-	CHRISTINE.		i pius	500	i i		
nt Delay, s/veh	0.6				October 1			10 W D
Movement	EBT	EBR	WBL	WBT	NBL	NBR		AN ON THE SAME OF
ane Configurations	44	7	7	^	ሻ	7		
raffic Vol. veh/h	1609	39	4	1293	24	5	- OD	T 1000 00 100 1000
iture Vol, veh/h	1609	39	4	1293	24	5	11000	y
onflicting Peds, #/hr		0	0	0	0	0		
ign Control	Free	Free	Free	Free	Stop	Stop	****	
T Channelized	1100	None	-	None	- City	None		
torage Length	_	275	250	-	175	0		
eh in Median Storag		210	-	0	2			
rade, %	0	-	•	0	0			
eak Hour Factor	95	95	88	88	66	66		
avy Vehicles, %	2	5	0	2	4	0		
mt Flow	1694	41	5	1469	36	8		Warran and a second
IIIL FIOW	1094	4 (3	1405	30	0	W	
			4 1 2					**
	Major1		Major2		/linor1			
onflicting Flow All	0	0	1735	0	2439	847		
Stage 1			- 1	-	1694	-		
Stage 2	-	-		-	745			
tical Hdwy	11-2		4.1	-	6 88	6.9	2.00	
tical Hdwy Stg 1	-	20	-	-	5.88	-		
tical Hdwy Stg 2	-		-	-	5 88	-		
low-up Hdwy	-	-	2.2	-	3.54	3.3		
t Cap-1 Maneuver	MU-		368	-	~ 25	309		
Stage 1	-	-	-	-	131	-		
Stage 2	11 2				425		THE RESERVE OF THE SECOND	
atoon blocked, %	-	-		-			77.4	
ov Cap-1 Maneuver			368	- 1	~ 25	309		
ov Cap-2 Maneuver		•			119	-		
Stage 1		-		12	131			CHILD IN THE RESERVE
Stage 2					419	-	VA I	
			N.		Na mil			
proach	EB	100 000	WB	T V	NB	m is		BROWN NEW YORK
CM Control Delay, s			0		42.6			
CM LOS	U	y //	U		42.0 E			
GIVI LUG					L.			
[and and [b to] and [b		NIDL - 4.1	MDI O	EDT	CDD	MAIDL	WIDT	
nor Lane/Major My	nt f	NBLn11		EBT	EBR	WBL	WBT	The state of the s
pacity (veh/h)		119	309	-	-	368	•	West Control of the C
CM Lane V/C Ratio	-		0.025	-	-		-	
CM Control Delay (s	5]	48	16.9	-	-	14.9		
CM Lane LOS		E	С	-	-	В	- APR 201	
CM 95th %tile Q(vel	h)	1.2	0.1	-		0	•	
otes		Jan 1		1 100	100	BAT ZO SER	CONTRACTOR IN CONTRACTOR	
Volume exceeds ca	apacity	\$: D	elay ex	ceeds 3	00s	+: Con	nputation Not Defined	*: All major volume in platoon
		-					A STATE OF THE STA	

	-	1	1	-	4	1				
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR			ve me	100
Lane Configurations	44		ħ	† †	٦	7				
Traffic Volume (vph)	1599	4	7	1297	6	12	1 1 1 1 1 1			
Future Volume (vph)	1599	4	7	1297	6	12	14		7 8	10
deal Flow (vphpl)	1900	1900	1900	1900	1900	1900				ш
Storage Length (ft)		0	275		0	200				
Storage Lanes		0	1		1	1		#III		II.
Taper Length (ft)			100		100					
ane Util. Factor	0.95	0.95	1.00	0.95	1.00	1.00			NATH .	
Frt						0.850		-		17.1
Fit Protected			0.950		0.950					T.
Satd. Flow (prot)	3539	0	1583	3539	1805	1495				
Fit Permitted			0.950		0.950				W 10	W_
Satd. Flow (perm)	3539	0	1583	3539	1805	1495	J=100			
Link Speed (mph)	55			55	30			M. X		
Link Distance (ft)	2727			1381	1408					
Travel Time (s)	33.8	1		17.1	32.0					
Peak Hour Factor	0.93	0.93	0.90	0.90	0.64	0.64				
Heavy Vehicles (%)	2%	0%	14%	2%	0%	8%		Bassay 1		
Adj. Flow (vph)	1719	4	8	1441	9	19			3,700	
Shared Lane Traffic (%)						101		- 11 - 1 ,,		
Lane Group Flow (vph)	1723	0	8	1441	9	19				
Enter Blocked Intersection	No	No	No	No	No	No	-	manufacture.		-3
Lane Alignment	Left	Right	Left	Left	Left	Right				
Median Width(ft)	12	2		12	12	781			-30	
_ink Offset(ft)	0			0	0	25005 60		5 (6) (
Crosswalk Width(ft)	16	10-1100		16	16			100000		
Two way Left Turn Lane	Yes			Yes		15 (1-	Tions			
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00		1 5 1		
Turning Speed (mph)		9	15		15	9		7-77.00		
Sign Control	Free	TOOLS		Free	Stop	0.00	2- T		177	
ntersection Summary		Age TIE	19		# 5 5					
Area Type: C	Other	100		Can	- N		2000		100000	
Control Type: Unsignalized				7,22					107-10	
ntersection Capacity Utilizat	ion 54 3%	,		10	U Level	of Service	٨		Tive	

Intersection	-71,	(1/	2 B	0.039	10 V (A)	Tagran.		115.00			TERMINE THE
Int Delay, s/veh	0.3	Service 14									
Movement	EBT	EBR	WBL	WBT	NBL	NBR					
Lane Configurations	1		7	44	ሻ	7				2000 - 200	
Traffic Vol, veh/h	1599	4	7	1297	6	12					
	1599	4	7	1297	6	12					
Conflicting Peds, #/hr	0	0	0	0	0	0	-30	18			
Sign Control	Free	Free	Free	Free	Stop	Stop					
RT Channelized	-	None		None	-	None					
Storage Length	-	-	275	-	0	200					
Veh in Median Storage,		-	-	0	2	-	11.70				-
Grade, %	0	- 02	- 00	0	0	CA.					
Peak Hour Factor	93	93	90	90	64	64 8					
Heavy Vehicles, %	1710	0				19					-50
Mymt Flow	1719	4	8	1441	9	19		-			
Major/Minor M	lajor1	ħ	Major2	ı	/linor1	1777	0 11				
Conflicting Flow All	0	0	1723	0	2458	862					
Stage 1	-	-	-								
Stage 2	-	-	-	-	737	•					
Critical Hdwy	-		4.38		6.8	7.06					
Critical Hdwy Stg 1	-	-	-	-	5.8						
Critical Hdwy Stg 2	-	-			5.8	-			egues 12		
Fallow-up Hdwy	-	-	2.34		3.5	3.38					
Pot Cap-1 Maneuver	-	-	314		26	287					
Stage 1	-	-	-	•	132	-					
Stage 2	-	-	-	- •	439	-		4 - 22			
Platoon blocked, %	_							100			
Mov Cap-1 Maneuver	-		314		25	287		1-3-00			
Mov Cap-2 Maneuver	-	_		-	120						
Stage 1		-	-	•	132	•				-	
Stage 2	-	****	-	-	428	-					
						750	- 44				
Approach	EB	JUL I	WB		NB		X E	n=g-i	18		-
HCM Control Delay, s	0	9 0	0.1		24.8					-	
HCM LOS					С						
Minor Long Major Mumi		NBLn11	IDI an	EBT	EBR	WBL	WBT		11		
Minor Lane/Major Mymt	200000						5,450,000				
Capacity (veh/h)		120	287	•	•	314 0.025					
HCM Control Dolay (a)		0.078			****	16.8	-				
HCM Long LOS		37.5 E	18.4 C	•	•	10.0 C	-				
HCM Coth Willo O(uph)		0.2	0.2			0.1	-				
HCM 95th %tile Q(veh)		Ų.Z	0.2	•	-	U. I	•				

Summary of All Intervals

Start Time	6:50	
End Time	8:00	F. 44
Total Time (min)	70	
Time Recorded (min)	60	
# of Intervals	2	
# of Recorded Intervals	1	
Vehs Entered	2424	
Vehs Exited	2419	
Starting Vehs	78	
Ending Vehs	83	
Travel Distance (mi)	3679	
Travel Time (hr)	73.2	
Total Delay (hr)	5.0	
Total Stops	57	3. 144 Lu-1
Fuel Used (gal)	108.0	

Interval #0 Information Seeding

Start Time	6:50
End Time	7:00
Total Time (min)	10
Volumes adjusted by Growth	Factors.
No data recorded this interva	

Start Time	7:00	
End Time	8:00	
Total Time (min)	60	
Volumes adjusted by Grow	vth Factors.	

Vehs Entered	2424	
Vehs Exited	2419	
Starting Vehs	78	
Ending Vehs	83	
Travel Distance (mi)	3679	
Travel Time (hr)	73.2	
Total Delay (hr)	5.0	
Total Stops	57	
Fuel Used (gal)	108.0	

Movement	WB	NB	NB		
Directions Served	L	L	R		1875
Maximum Queue (ft)	44	108	73		
Average Queue (ft)	3	27	13		
95th Queue (ft)	21	72	42	STATE OF STREET	
Link Distance (ft)			1116		
Upstream Blk Time (%)					40-0
Queuing Penalty (veh)					
Storage Bay Dist (ft)	250	175	0 0000	REAL PROPERTY.	
Storage Blk Time (%)					
Queuing Penalty (veh)					

Intersection: 2: Old Bailey Rd East & SC 170

Movement	WB	NB	NB	
Directions Served	L	L	R	
Maximum Queue (ft)	25	50	31	
Average Queue (ft)	1	8	6	
95th Queue (ft)	8	32	26	
Link Distance (ft)		1363		
Upstream Blk Time (%)				
Queuing Penalty (veh)			=	
Storage Bay Dist (ft)	275		200	
Storage Blk Time (%)				
Queuing Penalty (veh)				

Network Summary

Summary of All Intervals

3:50	DOWNER OF THE PERSON OF THE PROPERTY OF THE PERSON OF THE
5:00	
70	
60	
2	
1	
2908	
2932	
102	
78	
4450	
89.8	
7.5	
69	
130.1	
	5:00 70 60 2 1 2908 2932 102 78 4450 89.8 7.5 69

Interval #0 Information Seeding

Start Time	3:50
End Time	4:00
Total Time (min)	10
Volumes adjusted by Gro	wth Factors.
No data recorded this into	

Vehs Entered	2908	
Vehs Exited	2932	
Starting Vehs	102	
Ending Vehs	78	
Fravel Distance (mi)	4450	
Fravel Time (hr)	89.8	
Total Delay (hr)	7.5	
Total Stops	69	
uel Used (gal)	130.1	

WB	NB	NB		
L	L	R	- U,	Signate the st
26	113	27		
5	37	7	150	
22	93	24		
		1116		353
250	175			
			CONTROL DE	
	5 22	L L 26 113 5 37 22 93	L L R 26 113 27 5 37 7 22 93 24 1116	L L R 26 113 27 5 37 7 22 93 24 1116

Intersection: 2: Old Bailey Rd East & SC 170

Movement	WB	NB	NB	and the second second	
Directions Served	L	L	R		587
Maximum Queue (ft)	26	31	54		
Average Queue (ft)	4	5	14	S. 127	
95th Queue (ft)	19	22	41		
Link Distance (ft)		1363			
Upstream Blk Time (%)					
Queuing Penalty (veh)					
Storage Bay Dist (ft)	275		200		
Storage Blk Time (%)			- V J - W -		
Queuing Penalty (veh)					

Network Summary

Appendix E – Background 2027 Synchro and SimTraffic Reports

	→	>	1	←	1	-
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	^	7	7	^	ኘ	7
Traffic Volume (vph)	1335	18	3	1529	30	9
Future Volume (vph)	1335	18	3	1529	30	9
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (ft)		275	250		175	0
Storage Lanes		1	1		1	1
Taper Length (ft)			100		100	
Lane Util. Factor	0.95	1.00	1.00	0.95	1.00	1.00
Frt		0.850				0.850
FIt Protected			0.950		0.950	
Satd, Flow (prot)	3374	1524	1081	3438	1752	1455
Fit Permitted		Tenant Company	0.950		0.950	
Satd. Flow (perm)	3374	1524	1081	3438	1752	1455
Link Speed (mph)	55		170	55	30	
Link Distance (ft)	1485			2650	1171	
Travel Time (s)	18.4			32.9	26.6	
Peak Hour Factor	0.94	0.94	0.90	0.90	0.90	0.90
Heavy Vehicles (%)	7%	6%	67%	5%	3%	11%
Adj. Flow (vph)	1420	19	3	1699	33	10
Shared Lane Traffic (%)						
Lane Group Flow (vph)	1420	19	3	1699	33	10
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(ft)	12		18.000	12	12	-
Link Offset(ft)	0			0	0	
Crosswalk Width(ft)	16			16	16	
Two way Left Turn Lane	Yes			Yes		
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)		9	15	100	15	9
Sign Control	Free	I		Free	Stop	(3)
Intersection Summary		- 2			DE L	
	Other					
Control Type: Unsignalized						
Intersection Capacity Utilizati	ion 52.3%			10	CU Level	of Service

Analysis Period (min) 15

ntersection								
nt Delay, s/veh	0.4			(F) (C)	3		- 10,	
Movement	EBT	EBR	WBL	WBT	NBL.	NBR		
ane Configurations	44	7	4	44	٦	1		
raffic Vol. veh/h	1335	18	3	1529	30	9		
uture Vol, veh/h	1335	18	3	1529	30	9		
onflicting Peds, #/hr		0	0	0	0	0		
ign Control	Free	Free	Free	Free	Stop	Stop		
T Channelized		None	1000	None		COLUMN TWO IS NOT THE OWNER.		TO VIEW TO THE SECOND
torage Length		275	250	-	175	0		
h in Median Storag			MOTT HAVE	0	2			
rade, %	0		_	0	0	-		
eak Hour Factor	94	94	90	90	90	90		
eavy Vehicles, %	7	6	67	5	3	11		
vmt Flow	1420	19	3	1699	33	10		THE STAN STAN
ajor/Minor	Majort	-11 1	Majora	- A	/linor1	trip in		
	Majort 0		Major2 1439		2276	710		
onflicting Flow All Stage 1	-	U	1439	-	1420	710		
Stage 2		-			856		UNIVERSE IN	
itical Hdwy			5.44		6.86	7.12		
			0.44	(0.5 T	5.86			
ical Hdwy Stg 1	-		•	-				
ical Hdwy Stg 2		•	9.07		5.86	2.44		
low-up Hdwy	-		2.87	-	3.53	3.41	AND THE PARTY OF T	
t Cap-1 Maneuver	-		240	- 2	~ 33 187	356		
Stage 1						-		VALUE OF THE PARTY
Stage 2	-	•		•	374	•		
atoon blocked, %	_	-	240	-	22	250		
ov Cap-1 Maneuver		-	240	-	~ 33	356		
ov Cap-2 Maneuver	-	_		0/5	159	-		
Stage 1	-	-			187	-		
Stage 2				-	370	-		
proach	EB		WB	Section 1	NB	0.000000		
CM Control Delay, s	s 0		0	Mr. Co.	29.3			
CM LOS					D			
						X T		
nor Lane/Major My	mt f	NBLn1	VBLn2	EBT	EBR	WBL	WBT	
pacity (veh/h)		159	356		-	240	-	
CM Lane V/C Ratio		-	0.028	-		0.014	•	
CM Control Delay (s	_	33.5	15.4	-		20.2		
CM Lane LOS	o _L	D	C	-		C	•	
CM 95th %tile Q(ve	h)	0.8	0.1	T È		0		
		0.0	0.1	- mon		V	and the same of th	
otes				ceeds 3		all of	putation Not Defined	*: All major volume in platoon
Volume exceeds ca	NAME OF TAXABLE PARTY.							

	-	>	1	←	1	-
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	1		ሻ	十十	ሻ	7
Traffic Volume (vph)	1372	4	1	1527	6	5
Future Volume (vph)	1372	4	1	1527	6	5
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (ft)		0	275	- 1	0	200
Storage Lanes		0	1		1	1
Taper Length (ft)			100		100	
Lane Util. Factor	0.95	0.95	1.00	0.95	1.00	1.00
Frt						0.850
Fit Protected			0.950		0.950	
Satd. Flow (prot)	3406	0	1444	3438	1543	1615
Flt Permitted	T0.00		0.950		0.950	
Satd. Flow (perm)	3406	0	1444	3438	1543	1615
Link Speed (mph)	55		-2750	55	30	1. ""
Link Distance (ft)	2727		r.	1381	1408	
Travel Time (s)	33.8	A SOLUTION CO.		17.1	32.0	THE SECTION
Peak Hour Factor	0.96	0.96	0.91	0.91	0.90	0.90
Heavy Vehicles (%)	6%	0%	25%	5%	17%	0%
Adj. Flow (vph)	1429	4	1	1678	7	6
Shared Lane Traffic (%)			31 (W		
Lane Group Flow (vph)	1433	0	1	1678	7	6
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(ft)	12	1000	100000	12	12	
Link Offset(ft)	0			0	0	
Crosswalk Width(ft)	16		10	16	16	
Two way Left Turn Lane	Yes			Yes		-
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)		9	15		15	9
Sign Control	Free		100	Free	Stop	
Intersection Summary	100	1 21		*	= 10/1=	HEAV
	Other		_		-	
Control Type: Unsignalized	20101					
Intersection Capacity Utilizat	tion 52 2%		1.89	Ir	All evel	of Service
Analysis Period (min) 15	1011 32.270			T.	DO FEAC	OI OCIVICE
Allalysis Fellou (IIIII) 10						

ntersection							y); :===
Int Delay, s/veh	0.1		- 1				61-10
		EDD	1A/DI	WINT	MDI	NDD	
Movement	EBT ▲↑	EBR	WBL	WBT	NBL	NBR	
Lane Configurations Traffic Vol. veh/h	1372	4	1	1527	6	5	
	1372	4	1	1527	6	5	
Conflicting Peds, #/hr	0	0	0	0	0	0	diale se
	Free	Free	Free	Free	Stop	Stop	
RT Channelized				No. of Concession, Name of Street, or other Designation, Name of Street, or other Designation, Name of Street,	Ctop	None	
Storage Length			275		0	200	
Veh in Median Storage,	# 0	100	-	0	2	-	-
Grade, %	0	-	-	0	0	-	
Peak Hour Factor	96	96	91	91	90	90	i i
Heavy Vehicles, %	6	0	25	5	17	0	
Mvmt Flow	1429	4	1	1678	7	6	
Major/Minor M	ajor1		Major2	1	Vinor1	8 11	11301
Conflicting Flow All	0	0	1433	0		717	
Stage 1	ı.				1431		
Stage 2	-				841	-	
Critical Hdwy	-		4.6	-	7.14	6.9	
Critical Hdwy Stg 1		-	-		6.14	-	
Critical Hdwy Stg 2			TVV		6.14		
Follow-up Hdwy	_	_	2.45	escape.	3.67	3.3	
Pot Cap-1 Maneuver			369	-	28	377	
Stage 1			-		162		
Stage 2			8 3	30.1	348	1 1,,,,,,,,	
Platoon blocked, %	-	-		-	-30		
Mov Cap-1 Maneuver	-		369		28	377	
Mov Cap-2 Maneuver	-			-	140	-	
Stage 1	S	3 78 .	ш		162		
Stage 2	-	-	-		347	-	
			9 -		14	38	
Approach	EB	8 212	WB	0 0 7	NB		L NUE
HCM Control Delay, s	0		0	TO PARTY	24.1	-	
HCM LOS	•		ā		C		
		1,51		-			
MinnelanaMariana		IDI4 t	UDI . C			MIDI	MARKET
Minor Lane/Major Mymt	F	VBLn11			EBR		WBT
Capacity (veh/h)	- Hali	140	377	•	•	369	-
HCM Cantrol Doloy (a)	4	0.048				0.003	-
HCM Control Delay (s) HCM Lane LOS		32 D	14.7 B	•	-		-
HCM 95th %tile Q(veh)		0.1	0		-	B 0	
LIONI SOUL VOING OF AGILL		0.1	U	-	-	U	

	→	*	1	←	1	-
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	44	7	7	44	7	7
Traffic Volume (vph)	1958	39	5	1573	24	5
Future Volume (vph)	1958	39	5	1573	24	5
deal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (ft)		275	250		175	0
Storage Lanes	5 L III	1	1		1	1
Taper Length (ft)			100		100	
Lane Util. Factor	0.95	1.00	1.00	0.95	1.00	1.00
Frt		0.850				0.850
Fit Protected			0.950		0.950	
Satd. Flow (prot)	3539	1538	1805	3539	1736	1615
Fit Permitted			0.950	1 1	0.950	
Satd. Flow (perm)	3539	1538	1805	3539	1736	1615
Link Speed (mph)	55			55	30	
Link Distance (ft)	1485			2650	1171	
Travel Time (s)	18.4		1 - 2 - 2	32.9	26.6	
Peak Hour Factor	0.95	0.95	0.88	0.88	0.90	0.90
Heavy Vehicles (%)	2%	5%	0%	2%	4%	0%
Adj. Flow (vph)	2061	41	6	1788	27	6
Shared Lane Traffic (%)		111111111111111111111111111111111111111				
Lane Group Flow (vph)	2061	41	6	1788	27	6
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(ft)	12		200	12	12	
Link Offset(ft)	0			0	0	
Crosswalk Width(ft)	16			16	16	
Two way Left Turn Lane	Yes			Yes		777
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)		9	15		15	9
Sign Control	Free		n i i	Free	Stop	- 1000
ntersection Summary						iini.
Area Type: C	Other					
Control Type: Unsignalized						
Intersection Capacity Utilizat	ion 64.1%			IC	CU Level	of Service

Analysis Period (min) 15

Intersection	Wille	150	HUNN				-55-10-10-10-10-17-10	
Int Delay, s/veh	0.6							
Movement	EBT	EBR	WBL	WBT	NBL	NBR		
Lane Configurations	11	7	ኝ	44	7	7		
Traffic Vol. veh/h	1958	39	5	1573	24	5		
Future Vol, veh/h	1958	39	5	1573	24	5		
Conflicting Peds, #/hr	1930	0	0	0	0	0	- OWING THE RESERVE	
Sign Control	Free	Free	Free	Free				
RT Channelized					Stop	Stop		
		None	250	None		None		
Storage Length	- u o	275	250	-	175	0		
Veh in Median Storage		-	-	0	2	•		
Grade, %	0	-		0	0	-		
Peak Hour Factor	95	95	88	88	90	90		
Heavy Vehicles, %	2	5	0	2	4	0		
Mymt Flow	2061	41	6	1788	27	6		
Major/Minor	Major4		Main-2		Ainest	-		
	Major1		Major2		Minor1	4007	ALL THE PARTY OF T	The second secon
Conflicting Flow All	0	0	2102		2967	1031		The state of the s
Stage 1		•	-	-	2061	-		202,025
Stage 2	-	•	-	-	906	-		and the second s
Critical Hdwy	-	<u>-</u>	4.1	-	6.88	6.9		E-10-10-10-10-10-10-10-10-10-10-10-10-10-
Critical Hdwy Stg 1	-	-	-	-	5.88	-		
Critical Hdwy Stg 2	-	•	-	-	5.88			
Follow-up Hdwy	-	-	2.2		3.54	3.3		
Pot Cap-1 Maneuver			265	-	~ 11	234		
Stage 1	· · · ·	-	-	-	82	stice -		AND THE RESERVE AND THE PROPERTY OF THE PROPER
Stage 2	-	_			350			Victoria Company
Platoon blocked, %	-	-						
Mov Cap-1 Maneuver			265		~ 11	234		
Mov Cap-2 Maneuver	_		_	-	75	-		
Stage 1	-	A TOWN		1111.	82	VALUE OF		
Stage 2	-	30 A S. U.S.	_		342	- PARKE		
Otago Z			MILE		V72			
No. of the last of			10.00		- West		W. Salliani	
Approach	EB		WB		NB		received to the	
HCM Control Delay, s	0	I SALIS	0.1	The same	67.6		VIII "I'I'I'I'I	
HCM LOS	0.000				F		<u> </u>	
Minor Lane/Major Mvm	nt 1	VBLn1		EBT	EBR	WBL	WBT	
Capacity (veh/h)		75	234			265	-	
HCM Lane V/C Ratio		0.356				0.021	-	
HCM Control Delay (s)		77.4	20.8	1		18.9		
HCM Lane LOS		F	С		-	С	-	
HCM 95th %tile Q(veh)	1.4	0.1	10 -	-	0.1		
Notes		3						
-: Volume exceeds car	pacity	S-D	elay ex	ceeds 3	00s	+ Con	putation Not Defined	*: All major volume in platoon
. Volumo GAGGGG Ca	Paoni	9. 0	Ciay CA	oseus U	000	1, OUII	iparation not belined	. All Indioi volume in platoon

	$\stackrel{=}{\rightarrow}$	*	1	-		-
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	1		¥	44	٦	7
Traffic Volume (vph)	1945	4	7	1578	6	12
Future Volume (vph)	1945	4	7	1578	6	12
Ideal Flow (vphpi)	1900	1900	1900	1900	1900	1900
Storage Length (ft)		0	275		0	200
Storage Lanes		0	1		1	1
Taper Length (ft)			100		100	
Lane Util. Factor	0.95	0.95	1.00	0.95	1.00	1.00
Frt						0.850
Flt Protected			0.950		0.950	
Satd. Flow (prot)	3539	0	1583	3539	1805	1495
Flt Permitted			0.950		0.950	
Satd. Flow (perm)	3539	0	1583	3539	1805	1495
Link Speed (mph)	55			55	30	
Link Distance (ft)	2727			1381	1408	
Travel Time (s)	33.8			17.1	32.0	
Peak Hour Factor	0.93	0.93	0.90	0.90	0.90	0.90
Heavy Vehicles (%)	2%	0%	14%	2%	0%	8%
Adj. Flow (vph)	2091	4	8	1753	7	13
Shared Lane Traffic (%)						
Lane Group Flow (vph)	2095	0	8	1753	7	13
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(ft)	12			12	12	
Link Offset(ft)	0			0	0	
Crosswalk Width(ft)	16			16	16	
Two way Left Turn Lane	Yes			Yes		
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)		9	15		15	9
Sign Control	Free			Free	Stop	
ntersection Summary		131				
The state of the s	Other					
Control Type: Unsignalized						
Intersection Capacity Utiliza	tion 63.9%		W.L.	10	CU Level	of Service

Analysis Period (min) 15

ntersection	25	100 111		1		
Int Delay, s/veh	0.2	0 1				
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	41		ኘ	44	1	1
Traffic Vol. veh/h	1945	4	7	1578	6	12
Future Vol, veh/h	1945	4	7	1578	6	12
Conflicting Peds, #/hr		0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized		None	-	None	Otop	None
Storage Length	-	-	275	-	0	200
Veh in Median Storag		V.		0	2	
Grade, %	0	-	-	0	0	-
Peak Hour Factor	93	93	90	90	90	90
Heavy Vehicles, %	2	0	14	2	0	8
Mymt Flow	2091	4	8	1753	7	13
MANIT LICAA	2091	4	0	1100		13
Property of the Control of the Contr				ALC: N	1	
Major/Minor	Major1		Major2	· ·	/linor1	etti ala
Conflicting Flow All	0	0		0	2986	1048
Stage 1	- 15	- 12	Ħ.	- 4	2093	
Stage 2				-0.050- - 0	893	70
Critical Hdwy	-		4.38	-	6.8	7.06
Critical Hdwy Stg 1	-		-	-	5.8	-
Critical Hdwy Stg 2			= -	-	5.8	
Follow-up Hdwy			2.34		3.5	3.38
Pot Cap-1 Maneuver			220		11	214
Stage 1	100000	777	220		83	214
Stage 2	-		_		365	-
				-	303	
Platoon blocked, %	_	-	200	-	44	04.4
Mov Cap-1 Maneuver		-	220		11	214
Mov Cap-2 Maneuver	•	•	•		76	-
Stage 1	-	•	- 11-	-	83	•
Stage 2	-	-	-	•	352	•
Tau III				X		
Approach	EB	-11	WB	9-1-1-1	NB	-
HCM Control Delay	CALLED AND ADDRESS.		0.1	-	34.2	-
HCM LOS	U		0.1		34.2 D	
HOWI LOS					U	
Minor Lane/Major Mv	mt	NBLn1	NBLn2	EBT	EBR	WBL
Capacity (veh/h)	N	76	214	-	-	220
HCM Lane V/C Ratio			0.062			0.035
HCM Control Delay (56.9				22
HCM Lane LOS		F	C			C
HCM 95th %tile Q(ve	h)	0.3	0.2			0.1
The state of the s	ind.	0.0				

Summary of All Intervals

Start Time	6:50	
End Time	8.00	
Total Time (min)	70	
Time Recorded (min)	60	
# of Intervals	2	
# of Recorded Intervals	1	
Vehs Entered	2959	
Vehs Exited	2936	
Starting Vehs	76	
Ending Vehs	99	
Travel Distance (mi)	4492	
Travel Time (hr)	89.9	
Total Delay (hr)	7.1	
Total Stops	53	
Fuel Used (gal)	131.7	

Interval #0 Information Seeding

Start Time	6:50	
End Time	7:00	
Total Time (min)	10	
Volumes adjusted by Grov	th Factors.	2000 1000
No data recorded this inter	val.	

INCOLUMN T ATTOMATE	ation recording			
Start Time	7:00	-X 81		
End Time	8:00			
Total Time (min)	60			
Volumes adjusted by Grov	vth Factors.			

Vehs Entered	2959	
Vehs Exited	2936	
Starting Vehs	76	
Ending Vehs	99	
Travel Distance (mi)	4492	
Travel Time (hr)	89.9	
Total Delay (hr)	7.1	
Total Stops	53	
Fuel Used (gal)	131.7	

L	L	R					
40		Γ.					
49	90	51					TOTAL TRANSPORT
2	30	10					
16	75	36			The state of the s		
- 100		1116					
	11		100 d 27 m				
250	175	200				S	AND THE RESERVE OF THE PERSON NAMED IN
			-Alternative				THE RESERVE OF THE PARTY OF THE
	2 16	2 30 16 75	2 30 10 16 75 36 1116	2 30 10 16 75 36 1116	2 30 10 16 75 36 1116	2 30 10 16 75 36 1116	2 30 10 16 75 36 1116

Intersection: 2: Old Bailey Rd East & SC 170

Movement	NB	NB	
Directions Served	L	R	
Maximum Queue (ft)	54	30	
Average Queue (ft)	6	6	
95th Queue (ft)	29	25	
Link Distance (ft)	1363		
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)		200	
Storage Blk Time (%)		energy and a	
Queuing Penalty (veh)			

Network Summary

Summary of Al	II Intervals
---------------	--------------

Start Time	3:50	The state of the s
End Time	5:00	
Total Time (min)	70	
Time Recorded (min)	60	
# of Intervals	2	
# of Recorded Intervals	1	
Vehs Entered	3673	
Vehs Exited	3628	
Starting Vehs	92	
Ending Vehs	137	120,000,000,000
Travel Distance (mi)	5605	
Travel Time (hr)	121.1	
Total Delay (hr)	17.3	
Total Stops	61	
Fuel Used (gal)	165.4	
Carlot Color to the Color	The second control of	

Interval #0 Information Seeding

Start Time	3:50
End Time	4:00
Total Time (min)	10
Volumes adjusted by Growth I	Factors.
No data recorded this interval.	

Interval #1 Information Recording

Start Time	4:00
End Time	5:00
Total Time (min)	60
Volumes adjusted by Growth	Englore

Volumes adjusted by Growth Factors.

Vehs Entered	3673	
Vehs Exited	3628	
Starting Vehs	92	
Ending Vehs	137	
Travel Distance (mi)	5605	
Fravel Time (hr)	121.1	
Total Delay (hr)	17.3	
Total Stops	61	
Fuel Used (gal)	165.4	

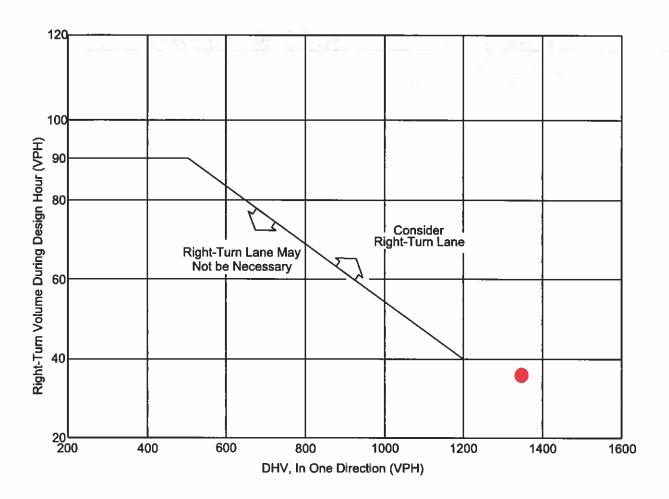
NB L 275	NB R	
275		
275		
	381	
159	113	
314	373	
	1116	
1032		
175		
48		
2		
	314 175 48	314 373 1116 175 48

Intersection: 2: Old Bailey Rd East & SC 170

Movement	WB	NB	NB			
Directions Served	L	L	R			
Maximum Queue (ft)	25	31	87			- 10 ", I - 01.
Average Queue (ft)	3	3	9	79.1		
95th Queue (ft)	17	17	40			
Link Distance (ft)		1363				
Upstream Blk Time (%)		-17				2000
Queuing Penalty (veh)		Approximately 1	our year and			
Storage Bay Dist (ft)	275		200			
Storage Blk Time (%)				246	1000000	
Queuing Penalty (veh)	and the					

Network Summary

Appendix F – SCDOT Right Turn Lane Warrant Worksheet



Note: Figure is only applicable on highways with a design speed of 50 miles per hour or greater.

AM = 1383, 37 PM = 2034, 90

Appendix G – Build 2027 Synchro and SimTraffic Reports

	→	*		—	1	1		
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR		2011
Lane Configurations	44	7	ሻ	44	ሻ	7		
Traffic Volume (vph)	1372	21	3	1581	45	9	7.80	
Future Volume (vph)	1372	21	3	1581	45	9		
deal Flow (vphpl)	1900	1900	1900	1900	1900	1900		
Storage Length (ft)		275	250		175	0		
Storage Lanes		1	1	W	1	1		
Taper Length (ft)			100		100			
Lane Util. Factor	0.95	1.00	1.00	0.95	1.00	1.00		
Frt		0.850				0.850		
Fit Protected		1000000	0.950		0.950		, 300 H-102	Name of the last o
Satd. Flow (prot)	3374	1524	1081	3438	1752	1455		7,000,000
Flt Permitted	Trans.	Q PROTOG	0.950	The state of	0.950	1758	0	HERITA DE
Satd. Flow (perm)	3374	1524	1081	3438	1752	1455		
Link Speed (mph)	55			55	30			
Link Distance (ft)	1485			1016	1171		2000000	F-120.17/4
Travel Time (s)	18.4			12.6	26.6	N TO THE		
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90		
Heavy Vehicles (%)	7%	6%	67%	5%	3%	11%	IIEII XXX	100
Adj. Flow (vph)	1524	23	3	1757	50	10		: No.
Shared Lane Traffic (%)								X JE
Lane Group Flow (vph)	1524	23	3	1757	50	10		
Enter Blocked Intersection	No	No	No	No	No	No		
Lane Alignment	Left	Right	Left	Left	Left	Right		
Median Width(ft)	12			12	12			
Link Offset(ft)	0		2752	0	0			
Crosswalk Width(ft)	16			16	16			
Two way Left Turn Lane	Yes			Yes		4 600 500		
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00		
Turning Speed (mph)		9	15		15	9		
Sign Control	Free			Free	Stop			
ntersection Summary		JINK :	11 11				dentile in	
	Other	-	1985 Linn			11 - 1680		
Control Type: Unsignalized								
Intersection Capacity Utilizat	ion 53.7%			IC	CU Level	of Service	4	
Analysis Period (min) 15					_		24	10.00

Intersection	D 485	Service .			4	DOWNERS.	Supplemental Control	
Int Delay, s/veh	0.7			77 92"				
Movement	EBT	EBR	WBL	WBT	NBL	NBR		
Lane Configurations	44	7	7	个 个	7	7		****
Traffic Vol, veh/h	1372	21	3	1581	45	9		
Future Vol, veh/h	1372	21	3	1581	45	9		
Conflicting Peds, #/hr	0	0	0	0	0	0		
Sign Control	Free	Free	Free	Free	Stop	Stop		
RT Channelized	1100	None	-	None		None		
Storage Length	_	275	250	-	175	0		
Veh in Median Storage	The Parket		-	0	2			
Grade, %	0	-		0	0			**
Peak Hour Factor	90	90	90	90	90	90		
Heavy Vehicles, %	7	6	67	5	3	11		
Mymt Flow	1524	23	3	1757	50	10		
manut lon	1027	20		1701	00	10	1000	
	Major1		Major2		Minor1			
Conflicting Flow All	0	0	1547	0	2409	762		
Stage 1			-	-	1524	-		
Stage 2	-	-	-		885	-		
Critical Hdwy	-		5.44	-	6.86	7.12		
Critical Hdwy Stg 1	-		-	-	5.86	-		
Critical Hdwy Stg 2		-		-	5.86	-		
Follow-up Hdwy	-	-	2.87		3.53	3.41		
Pot Cap-1 Maneuver			211	-	~ 27	328		
Stage 1		-	-	-	164	-		
Stage 2	-	= 1 -	1	12	361	-		
Platoon blocked, %	-	_		-				
Mov Cap-1 Maneuver		T. 1114	211	-	~ 27	328		
Mov Cap-2 Maneuver		- 2	-	-	141	-		
Stage 1		-			164	-		
Stage 2	_			-	356			
			8 T	1	- Calonia			
Annunch	EB	11 11110	WB		NB		William I and the	
Approach			100000000000000000000000000000000000000	-		_		
HCM Control Delay, s	0		0		39.3			
HCM LOS					E			
0.1	4 1	uni di	UDI C	FOT	PDD	UNION	MOT	
Minor Lane/Major Mvn	nt I	NBLn11		EBT	EBR	WBL	WBT	
Capacity (veh/h)		141	328	•	August 7	211	•	0.000
HCM Lane V/C Ratio		0.355	0.03	-		0.016	•	
HCM Control Delay (s		43.9	16.3	•	•	22.3	* 23.005-	
HCM Lane LOS		E	C		-	C	- policina	
HCM 95th %tile Q(veh	1	1.5	0.1	-	-	0	•	
Notes	N							
 Volume exceeds ca 	pacity	\$: D	elay ex	ceeds 3	100s	+: Con	nputation Not Defined	*: All major volume in platoon

	-	~	1	- ◆-	1	- /		
ane Group	EBT	EBR	WBL	WBT	NBL	NBR	wedenillays ew	(A = 711
ane Configurations	41	Great Control	7	† †	7	7		
raffic Volume (vph)	1393	4	4	1545	6	20		
uture Volume (vph)	1393	4	4	1545	6	20		
teal Flow (vphpl)	1900	1900	1900	1900	1900	1900		
torage Length (ft)		0	275		0	200		
torage Lanes		0	1	1 377	1	1		
aper Length (ft)			100		100			
ane Util. Factor	0.95	0.95	1.00	0.95	1.00	1.00		
rt						0.850		
It Protected			0.950		0.950			
Satd. Flow (prot)	3406	0	1444	3438	1543	1615		-
It Permitted			0.950		0.950		. W	
Satd. Flow (perm)	3406	0	1444	3438	1543	1615		-
ink Speed (mph)	55		37	55	30		The state of the s	
ink Distance (ft)	2727			1381	1408			
Fravel Time (s)	33.8			17.1	32.0			
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90		
Heavy Vehicles (%)	6%	0%	25%	5%	17%	0%	HELIMBE	
Adj. Flow (vph)	1548	4	4	1717	7	22		
Shared Lane Traffic (%)		a Basis					(C) - 10	
ane Group Flow (vph)	1552	0	4	1717	7	22		Т
Enter Blocked Intersection	No	No	No	No	No	No	THE VALUE OF THE PARTY.	
Lane Alignment	Left	Right	Left	Left	Left	Right		
Median Width(ft)	12	-		12	12			
_ink Offset(ft)	0			0	0			
Crosswalk Width(ft)	16			16	16	and the same		
Two way Left Turn Lane	Yes			Yes	and the second			
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	Table	
Turning Speed (mph)		9	15		15	9		
Sign Control	Free	-		Free	Stop	550	A STATE OF THE PARTY OF	
ntersection Summary	-							ind.
	Other		- 100		- 2	- U.S. 188 by - 10		N.
Control Type: Unsignalized								
Intersection Capacity Utilizat	ion 52.7%			10	CU Level	of Service A	4	X I
Analysis Period (min) 15					100			

					1 - 200	W =					
Intersection				- 51							DAY SEE THE THE
Int Delay, s/veh	0.2										
Movement	EBT	EBR	WBL	WBT	NBL	NBR	1000				
Lane Configurations	1		ሻ	44	ሻ	7				residence of the	10000000
Traffic Vol, veh/h	1393	4	4	1545	6	20		= 10			A 10
Future Vol, veh/h	1393	4	4	1545	6	20					
Conflicting Peds, #/hr	0	0	0	0	0	0				<u> </u>	
Sign Control	Free	Free	Free	Free	Stop	Stop					
RT Channelized	-	None	-	None	-	None					
Storage Length	-	-	275	-	0	200					
Veh in Median Storage,			-	0	2			0000			
Grade, %	0	-	-	0	0	•					
Peak Hour Factor	90	90	90	90	90	90		HOLL			
Heavy Vehicles, %	6	0	25	5	17	0					
Mvmt Flow	1548	4	4	1717	7	22			- 2,		
Major/Minor M	lajor1		/ajor2	, A	/Inor1	200		111 (187			
Conflicting Flow All	0	0	1552	0	2417	776					
Stage 1	-	U	1002	V	1550	110					
Stage 2			- :		867	-					
Critical Hdwy		-	4.6		7.14	6.9	001				
Critical Hdwy Stg 1			4.0	-	6.14	0.9					
Critical Hdwy Stg 2		-	·	_	6.14						- 11
Follow-up Hdwy			2.45		3.67	3.3					
Pot Cap-1 Maneuver			328	-	22	345					
Stage 1			320		139	J40 -					
Stage 2	-				337			No.	= =14		
Platoon blocked, %		10.5		-	007		The State of the S				
Mov Cap-1 Maneuver	===		328		22	345			- 10		
Mov Cap-1 Maneuver		-	320	. 38	122	340					1000
Stage 1					139				15-81		
	25/27	•	-	-	333						
Stage 2			•		333						
E SANKIBISH S		444					-				
Approach	EB		WB		NB	V.,			N		
HCM Control Delay, s	0		0		20.8						
HCM LOS					С						
Minor Lane/Major Mvm	, 1	NBLn11	JRI n2	EBT	EBR	WBL	WBT				
		122			and the second						
Capacity (veh/h)		0.055	345	•	-	328		- 11			
HCM Cantrol Dolars (a)				•		0.014	_				
HCM Long LOS	E.	36.2	16.2		-	16.1 C	-				
HCM Lane LOS		0.2	0.2		-	0	_				
HCM 95th %tile Q(veh)		0.2	0.2	•	-	U	-				

	\rightarrow	1	1	-	1	_	
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR	
Lane Configurations	44	7	7	44	7	7	
Traffic Volume (vph)	1346	37	18	1533	52	21	
Future Volume (vph)	1346	37	18	1533	52	21	
deal Flow (vphpl)	1900	1900	1900	1900	1900	1900	ACCEPTAGE TO SERVICE OF THE SERVICE
Storage Length (ft)	= = 100000	150	150		0	0	
Storage Lanes		1	1		1	1	
Taper Length (ft)			100		100	Land Allen	
Lane Util. Factor	0.95	1.00	1.00	0.95	1.00	1.00	
Frt	100000000000000000000000000000000000000	0.850				0.850	R
Flt Protected			0.950		0.950		
Satd. Flow (prot)	3539	1583	1770	3539	1770	1583	
FIt Permitted			0.950		0.950		I THE RESERVE TO SERVE THE PARTY OF THE PART
Satd. Flow (perm)	3539	1583	1770	3539	1770	1583	W10
Link Speed (mph)	55			55	30		
Link Distance (ft)	1016			1628	1563		0.00
Travel Time (s)	12.6			20.2	35.5		Mark I amend
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	
Adj. Flow (vph)	1496	41	20	1703	58	23	
Shared Lane Traffic (%)			- 1000				
Lane Group Flow (vph)	1496	41	20	1703	58	23	
Enter Blocked Intersection	No	No	No	No	No	No	
Lane Alignment	Left	Right	Left	Left	Left	Right	
Median Width(ft)	12			12	12		
Link Offset(ft)	0			0	0		
Crosswalk Width(ft)	16			16	16		
Two way Left Turn Lane	Yes			Yes			
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	
Turning Speed (mph)		60	60		60	60	
Sign Control	Free	m-17,00		Free	Stop		
Intersection Summary	N. W				- 1988		
	Other					5/41	
Control Type: Unsignalized							
Intersection Capacity Utilizat	ion 52.4%		1001221	К	CU Level	of Service A	
Analysis Period (min) 15	ALL STREET		THE R		AUTHOR -		Town of the last o
The state of the s							

ntersection		1853		336				
Int Delay, s/veh	1	109			& CO 23-180	O11_90 (1)		
Movement	EBT	EBR	WBL	WBT	NBL	NBR		
Lane Configurations	个个	7	7	44	7	7		
Traffic Vol. veh/h	1346	37	18	1533	52	21	With the latest	
Future Vol, veh/h	1346	37	18	1533	52	21		
Conflicting Peds, #/hr		0	0	0	0	0		
Sign Control	Free	Free	Free	Free	Stop	Stop		
RT Channelized	-	None	1100	None	Otop.	None	THE RESERVE	X T TIN WATER
Storage Length	_	150	150	-	0	0		
Veh in Median Storag	e.# 0		-	0	2		The state of the s	A STATE OF THE STA
Grade, %	0		_	0	0			
Peak Hour Factor	90	90	90	90	90	90		
Heavy Vehicles, %	2	2	2	2	2	2	- 10	0
Mymt Flow	1496	41	20	1703	58	23	T V V IS	
	. 100			1,00	00			
Not all the	14-1-4		14-1		At 4			
	Major1		Major2		Minor1	W.		
Conflicting Flow All	0	0	1537	0	2388	748		
Stage 1	-	-	-		1496			
Stage 2		-	-	-	892	-		
Critical Hdwy		-	4.14		6.84	6.94		
Critical Hdwy Stg 1	-	-	-	-	5.84	-		
Critical Hdwy Stg 2	•		- · · · -	-	5.84	-		and the second second
Follow-up Hdwy	-	-	2.22		3.52	3.32		
Pot Cap-1 Maneuver	-		429	-	~ 28	355	A CONTRACT OF A	
Stage 1	-	-	-	-	172			
Stage 2	- W	-	-		361	-		
Platoon blocked, %	-		No. of	- 10		12000		
Mov Cap-1 Maneuver		-	429		~ 27	355		
Mov Cap-2 Maneuver	-	-	-	-	146		and the second	
Stage 1	-	-		-	172			
Stage 2	-	-			344	-		
	¥							
Approach	EB		WB		NB	Epine.	COLUMN TO SERVICE	
HCM Control Delay, s			0.2		36.6	200		
HCM LOS	,		VIN	- III OK SI	E	A ROBERT MAN		
ir To be to be		um e	NO. C	ben ber ode		MINI	WDT	
Minor Lane/Major Myr	nt	NBLn11		EBT	EBR	WBL	WBT	TORREST AND STORES OF THE PARTY
Capacity (veh/h)		146	355	•	•	429	•	
HCM Lane V/C Ratio		0.396		-		0.047		
HCM Control Delay (s)	44.9	15.9		-	-		
HCM Lane LOS		Ε	C		•	В		
HCM 95th %tile Q(vel	n)	1.7	0.2		-	0.1	AND THE PERSON NAMED IN COLUMN	
Notes			all-n		200	Amaga		
: Volume exceeds ca	pacity	S: D	elav ex	ceeds 3	00s	+: Con	nputation Not Defined	*: All major volume in platoon
, vound onoodd oc	Paoisi	3. 0	Sial ov	20000	700	, 0011		Tarriago Tolano in platoon

	۶	_	←	: 4	-	4	
Lane Group	EBL	EBT	WBT	WBR	SBL	SBR	ms-kum dia at ay asay.
Lane Configurations		र्स	f		¥		W
Traffic Volume (vph)	3	15	20	3	15	15	
Future Volume (vph)	3	15	20	3	15	15	
deal Flow (vphpl)	1900	1900	1900	1900	1900	1900	
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	and the second s
Frt			0.984		0.932		
Fit Protected		0.993		v 22 100	0.976		
Satd. Flow (prot)	0	1887	1870	0	1728	0	The state of the s
Flt Permitted		0.993			0.976	W	Ø314
Satd. Flow (perm)	0	1887	1870	0	1728	0	
Link Speed (mph)		30	30	sectory.	30		
Link Distance (ft)		559	769	2000000	549	100	
Travel Time (s)		12.7	17.5		12.5		
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%	
Adj. Flow (vph)	3	17	22	3	17	17	
Shared Lane Traffic (%)							E-20.
Lane Group Flow (vph)	0	20	25	0	34	0	
Enter Blocked Intersection	No	No	No	No	No	No	
Lane Alignment	Left	Left	Left	Right	Left	Right	
Median Width(ft)		0	0		12		- 1, - 1, - 1, - 1, - 1, - 1, - 1, - 1,
Link Offset(ft)		0	0		0		
Crosswalk Width(ft)		16	16		16	55-52A	100000000000000000000000000000000000000
Two way Left Turn Lane	array - m				and the same of		
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	
Turning Speed (mph)	60			60	60	60	
Sign Control		Free	Free		Stop		
ntersection Summary	3,53			etal pr		white	
Area Type: (Other		20000				
Control Type: Unsignalized						2000	
Intersection Capacity Utilizat	ion 13.4%			IC	U Level	of Service A	
Analysis Period (min) 15	-						

•						
Intersection	S-10	-	s/m=	-0111 B	OTH T	
Int Delay, s/veh	4					
<u>- </u>		-				
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		स	1		Y	
Traffic Vol., veh/h	3	15	20	3	15	15
Future Vol, veh/h	3	15	20	3	15	15
Conflicting Peds, #/hr	0	0	0	0	0	0
	Free	Free	Free	Free	Stop	Stop
RT Channelized		THE RESERVE OF THE PERSON NAMED IN	-	-	-	None
Storage Length		-	-	-	0	
Veh in Median Storage,	# -	0	0	1020	0	
Grade, %	_	0	0	-	0	-
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	0	0	0	0	0	0
Mymt Flow	3	17	22	3	17	17
MVIIIL FIUW	J	17	44	J	П	11
Major/Minor M	lajor1	N	Major2	N.	Vinor2	
Conflicting Flow All	25	0	-	0	47	24
Stage 1				-	24	
Stage 2	_				23	_
Critical Hdwy	4.1			1	6.4	6.2
					5.4	
Critical Hdwy Stg 1		- 1	-	•		-
Critical Hdwy Stg 2	•	-		-	5.4	-
Follow-up Hdwy	2.2	-	-	-	3.5	3.3
	1603	-	-	-	968	1058
Stage 1		-	-	-	1004	-
Stage 2	-	-	-	1.	1005	-
Platoon blocked, %		-	-			
	1603	E // E			966	1058
Mov Cap-2 Maneuver	-	-			966	-
Stage 1	-		0 -		1002	
Stage 2	_	1892	_		1005	-
Otage 2	11177				1000	
				4000		
Approach	E8		WB		SB	
HCM Control Delay, s	1.2		0	100	8.7	- 8
HCM LOS					Α	
Minor Lane/Major Mvmt		EBL	EBT	WBT	WBR:	SBLn1
Capacity (veh/h)		1603	-		-	1010
HCM Lane V/C Ratio		0.002	-	-	-	0.033
HCM Control Delay (s)		7.2	0	-		8.7
HCM Lane LOS		Α	A			Α
HCM 95th %tile Q(veh)		0				0.1

Lane Group EBT EBR WBL WBT NBL Lane Configurations 1 1 1 1 Traffic Volume (vph) 2028 44 5 1619 39 Future Volume (vph) 2028 44 5 1619 39 Ideal Flow (vphpl) 1900 1900 1900 1900 1900 Storage Length (ft) 275 250 175 175 175 175 175 175 175 175 175 175 175 180 1800	NBR 5 5 1900 0 1 1.00 0.850 1615
Traffic Volume (vph) 2028 44 5 1619 39 Future Volume (vph) 2028 44 5 1619 39 Ideal Flow (vphpl) 1900 1900 1900 1900 1900 Storage Length (ft) 275 250 175 Storage Lanes 1 1 1 1 Taper Length (ft) 100 100 100 100 Lane Util. Factor 0.95 1.00 1.00 0.95 1.00 Fit 0.850 0.950 0.950 0.950 Satd. Flow (prot) 3539 1538 1805 3539 1736 Fit Permitted 0.950 0.950 0.950 0.950 Satd. Flow (perm) 3539 1538 1805 3539 1736 Link Speed (mph) 55 55 30 30 1.171 171 171 171 171 171 171 171 171 171 171 171 171 1	5 5 1900 0 1 1.00 0.850
Traffic Volume (vph) 2028 44 5 1619 39 Future Volume (vph) 2028 44 5 1619 39 Ideal Flow (vphpl) 1900 1900 1900 1900 1900 Storage Length (ft) 275 250 175 Storage Lanes 1 1 1 1 Taper Length (ft) 100 100 100 100 Lane Util. Factor 0.95 1.00 1.00 0.95 1.00 Fit 0.850 0.950 0.950 0.950 Satd. Flow (prot) 3539 1538 1805 3539 1736 Fit Permitted 0.950 0.950 0.950 0.950 Satd. Flow (perm) 3539 1538 1805 3539 1736 Link Speed (mph) 55 55 30 30 1171 171 171 171 171 171 171 171 171 171 171 171 171 17	5 1900 0 1 1.00 0.850
Ideal Flow (vphpl)	5 1900 0 1 1.00 0.850
Storage Length (ft) 275 250 175 Btorage Lanes 1 1 1 Taper Length (ft) 100 100 100 Lane Util. Factor 0.95 1.00 1.00 0.95 1.00 Frt 0.850 0.90 0.90 0.90 0.90 0.90 0.90 0.90 0.90 0.90 0.90 0.90 0.90 0.90 0.90 0.90 0.90 0.90 0.90	0 1 1.00 0.850
Storage Lanes 1 1 1 1 Taper Length (ft) 100 100 100 Lane Util. Factor 0.95 1.00 1.00 0.95 1.00 Frt 0.850 0.950 0.950 0.950 Satd. Flow (prot) 3539 1538 1805 3539 1736 Flt Permitted 0.950 0.950 0.950 Satd. Flow (perm) 3539 1538 1805 3539 1736 Link Speed (mph) 55 55 30 1016 1171 Travel Time (s) 18.4 12.6 26.6 Peak Hour Factor 0.90 0.90 0.90 0.90 0.90 Heavy Vehicles (%) 2% 5% 0% 2% 4% Adj. Flow (vph) 2253 49 6 1799 43 Shared Lane Traffic (%) 15 15 15 1799 14	1 1.00 0.850 1615
Taper Length (ft) 100 100 Lane Util. Factor 0.95 1.00 1.00 0.95 1.00 Fit 0.850 0.950 0.950 0.950 Satd. Flow (prot) 3539 1538 1805 3539 1736 Flt Permitted 0.950 0.950 0.950 Satd. Flow (perm) 3539 1538 1805 3539 1736 Link Speed (mph) 55 55 30 1016 1171 Travel Time (s) 18.4 12.6 26.6 Peak Hour Factor 0.90 0.90 0.90 0.90 Heavy Vehicles (%) 2% 5% 0% 2% 4% Adj. Flow (vph) 2253 49 6 1799 43 Shared Lane Traffic (%) 10.95 1.00 0.95 0.95 0.90 0.90 0.90 0.90 0.90 0.90 0.90 0.90 0.90 0.90 0.90 0.90 0.90 0.90 0.90 <t< td=""><td>1.00 0.850 1615</td></t<>	1.00 0.850 1615
Lane Util. Factor 0.95 1.00 1.00 0.95 1.00 Frt 0.850 0.950 0.950 0.950 Satd. Flow (prot) 3539 1538 1805 3539 1736 Flt Permitted 0.950 0.950 0.950 Satd. Flow (perm) 3539 1538 1805 3539 1736 Link Speed (mph) 55 55 30 30 30 30 1171	0.850
Frt 0.850 Fit Protected 0.950 0.950 Satd. Flow (prot) 3539 1538 1805 3539 1736 Fit Permitted 0.950 0.950 0.950 Satd. Flow (perm) 3539 1538 1805 3539 1736 Link Speed (mph) 55 55 30 Link Distance (ft) 1485 1016 1171 Travel Time (s) 18.4 12.6 26.6 Peak Hour Factor 0.90 0.90 0.90 0.90 Heavy Vehicles (%) 2% 5% 0% 2% 4% Adj. Flow (vph) 2253 49 6 1799 43 Shared Lane Traffic (%)	0.850
Fit Protected 0.950 0.950 Satd. Flow (prot) 3539 1538 1805 3539 1736 Fit Permitted 0.950 0.950 0.950 Satd. Flow (perm) 3539 1538 1805 3539 1736 Link Speed (mph) 55 55 30 Link Distance (ft) 1485 1016 1171 Travel Time (s) 18.4 12.6 26.6 Peak Hour Factor 0.90 0.90 0.90 0.90 Heavy Vehicles (%) 2% 5% 0% 2% 4% Adj. Flow (vph) 2253 49 6 1799 43 Shared Lane Traffic (%) 1538 1805 3539 1736 <t< td=""><td>1615</td></t<>	1615
Satd. Flow (prot) 3539 1538 1805 3539 1736 Flt Permitted 0.950 0.950 0.950 Satd. Flow (perm) 3539 1538 1805 3539 1736 Link Speed (mph) 55 55 30 Link Distance (ft) 1485 1016 1171 Travel Time (s) 18.4 12.6 26.6 Peak Hour Factor 0.90 0.90 0.90 0.90 Heavy Vehicles (%) 2% 5% 0% 2% 4% Adj. Flow (vph) 2253 49 6 1799 43 Shared Lane Traffic (%) 1538 1805 3539 1736 1736 1736 1736 1736 1736 1736 1736 180 1736 1736 1736 1736 180 1736 1736 1736 1736 1736 1736 1736 1736 1736 1736 1736 1736 1736 1736 1736 1736 1736 <td></td>	
Fit Permitted 0.950 0.950 Satd. Flow (perm) 3539 1538 1805 3539 1736 Link Speed (mph) 55 55 30 Link Distance (ft) 1485 1016 1171 Travel Time (s) 18.4 12.6 26.6 Peak Hour Factor 0.90 0.90 0.90 0.90 Heavy Vehicles (%) 2% 5% 0% 2% 4% Adj. Flow (vph) 2253 49 6 1799 43 Shared Lane Traffic (%) 3539 1538 1805 3539 1736	
Satd. Flow (perm) 3539 1538 1805 3539 1736 Link Speed (mph) 55 55 30 Link Distance (ft) 1485 1016 1171 Travel Time (s) 18.4 12.6 26.6 Peak Hour Factor 0.90 0.90 0.90 0.90 Heavy Vehicles (%) 2% 5% 0% 2% 4% Adj. Flow (vph) 2253 49 6 1799 43 Shared Lane Traffic (%)	1615
Link Speed (mph) 55 55 30 Link Distance (ft) 1485 1016 1171 Travel Time (s) 18.4 12.6 26.6 Peak Hour Factor 0.90 0.90 0.90 0.90 Heavy Vehicles (%) 2% 5% 0% 2% 4% Adj. Flow (vph) 2253 49 6 1799 43 Shared Lane Traffic (%) 3 4 6 1799 43	1615
Link Distance (ft) 1485 1016 1171 Travel Time (s) 18.4 12.6 26.6 Peak Hour Factor 0.90 0.90 0.90 0.90 0.90 Heavy Vehicles (%) 2% 5% 0% 2% 4% Adj. Flow (vph) 2253 49 6 1799 43 Shared Lane Traffic (%)	
Travel Time (s) 18.4 12.6 26.6 Peak Hour Factor 0.90 0.90 0.90 0.90 0.90 Heavy Vehicles (%) 2% 5% 0% 2% 4% Adj. Flow (vph) 2253 49 6 1799 43 Shared Lane Traffic (%)	والمستحديث والمستحدثات
Peak Hour Factor 0.90 0.9	
Heavy Vehicles (%) 2% 5% 0% 2% 4% Adj. Flow (vph) 2253 49 6 1799 43 Shared Lane Traffic (%)	
Adj. Flow (vph) 2253 49 6 1799 43 Shared Lane Traffic (%)	0.90
Shared Lane Traffic (%)	0%
	6
Lane Group Flow (vph) 2253 49 6 1799 43	
	6
Enter Blocked Intersection No No No No No	No
Lane Alignment Left Right Left Left Left	Right
Median Width(ft) 12 12 12	
Link Offset(ft) 0 0	
Crosswalk Width(ft) 16 16 16	
Two way Left Turn Lane Yes Yes	
Headway Factor 1.00 1.00 1.00 1.00 1.00	1.00
Turning Speed (mph) 9 15 15	9
Sign Control Free Stop	
ntersection Summary	The same of the sa
Area Type: Other	The state of the s
Control Type: Unsignalized	1000 S-W
Intersection Capacity Utilization 66.1% ICU Level of	f Service C

								The substitute of the substitu
Intersection	Y =	100			a de			
Int Delay, s/veh	1.7							
Movement	EBT	EBR	WBL	WBT	NBL	NBR		
Lane Configurations	44	7	7	44	7	7		582
Traffic Vol. veh/h	2028	44	5	1619	39	5		
Future Vol, veh/h	2028	44	5	1619	39	5		Additional to the second secon
Conflicting Peds, #/hr		0	0	0	0	0	E 11 30 17 17 18	
Sign Control	Free	Free	Free	Free	Stop	Stop		
RT Channelized	-	None	1100		Otop	None		
Storage Length		275	250	-	175	0		
Veh in Median Storag				0	2	Ť	198 14 1 1 1 1	100
Grade, %	0	-		0	0	-		
Peak Hour Factor	90	90	90	90	90	90		191-19
	2	5	0	2	4	0	The state of the s	
Heavy Vehicles, %			_		43	6		
Mvmt Flow	2253	49	6	1799	43	О		
Major/Minor	Major1	ulu i	Major2	ı	Minor1			
Conflicting Flow All	0	0	2302	0	3165	1127		
Stage 1	-	_	-	-	2253	-		
Stage 2	_			-	912	_	***	
Critical Hdwy			4.1		6.88	6.9	THE RESERVE OF THE PERSON NAMED IN	
Critical Hdwy Stg 1					5.88	-		
Critical Hdwy Stg 2	_				5.88			
Follow-up Hdwy			2.2		3.54	3.3		
Pot Cap-1 Maneuver	- 10		222	1	~ 8	202		
Stage 1		-	- 222		64	202		
Stage 2		_			347			
Platoon blocked, %			_	_	347	_		
		-	222		~ 8	202		
Mov Cap-1 Maneuver			222		59			
Mov Cap-2 Maneuver		_				•		
Stage 1	-	-			64			
Stage 2	-	-	-	-	338	-		
			7-9/10					
Approach	EB		WB		NB	. X . TU		
HCM Control Delay, s			0.1		144.7			
HCM LOS			0.1		F			
TIOM COO								
Minor Lane/Major My	nt i	NBLn1		EBT	EBR	WBL	WBT	and distance of the second
Capacity (veh/h)		59	202	10000	1111010	222		
HCM Lane V/C Ratio		0.734	0.028	-	-	0.025	-	relatives (1)
HCM Control Delay (s	s)	160.3	23.3	-	==-	21.6		
HCM Lane LOS		F	С	-	-	С	-	
HCM 95th %tile Q(vel	h)	3.2	0.1		-	0.1		
Notes								AND THE RESERVE OF THE STATE OF
-: Volume exceeds ca	nacihi	6 D	olast ox	ceeds 3	Mo	4: Con	nputation Not Defined	*: All major volume in platoon
- Volume exceeds Ca	apacity	φ. U	ciay ex	ceeus 3	0003	T, CUII	inputation Not Delineu	. All itajor volume in platoon

	-	~	-	4	•	-			
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR		Miller Yo	7 - 17
Lane Configurations	1		7	*	ሻ	7			
Traffic Volume (vph)	1962	4	13	1613	6	26			
Future Volume (vph)	1962	4	13	1613	6	26			
deal Flow (vphpl)	1900	1900	1900	1900	1900	1900			الأثاروا
Storage Length (ft)		0	275		0	200			
Storage Lanes		0	1		1	1	NEWSTERN NEWS		1835 A
Taper Length (ft)			100		100				
Lane Util. Factor	0.95	0.95	1.00	0.95	1.00	1.00			
Frt						0.850			-
Fit Protected			0.950	III DAN	0.950				J.W.
Satd. Flow (prot)	3539	0	1583	3539	1805	1495			
Flt Permitted			0.950	No.	0.950		FIELDER		
Satd. Flow (perm)	3539	0	1583	3539	1805	1495			
Link Speed (mph)	55		1000	55	30		II TO SERVICE STATE OF THE PARTY OF THE PART		3435.000
Link Distance (ft)	2727	VIII.		1381	1408				-
Travel Time (s)	33.8			17.1	32.0			1 E E W	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90			
Heavy Vehicles (%)	2%	0%	14%	2%	0%	8%			9
Adj. Flow (vph)	2180	4	14	1792	7	29		A ALATA A	
Shared Lane Traffic (%)				3 X		UX			100
Lane Group Flow (vph)	2184	0	14	1792	7	29	7047		
Enter Blocked Intersection	No	No	No	No	No	No	THE WATER		Sexter of
Lane Alignment	Left	Right	Left	Left	Left	Right	1885	17 - 14.59	
Median Width(ft)	12	1,73		12	12	- 1000		Marin II	
Link Offset(ft)	0			0	0		1100		
Crosswalk Width(ft)	16			16	16	Salar Inch			7 7 7 10
Two way Left Turn Lane	Yes			Yes			(2)	Range	
Headway Factor	1.00	1.00	1.00	1.00	1.00	1,00			
Turning Speed (mph)		9	15		15	9		JIN-Co.	
Sign Control	Free	250		Free	Stop				-
Intersection Summary	21,370		T. J. 200	angar	- 8	1,540			180
	Other			1000	1000	- 3	100 mm		- 202
Control Type: Unsignalized									
Intersection Capacity Utilizat	ion 64.4%		W	10	U Level	of Service (T 0	*
Analysis Period (min) 15									

-						
ntersection						
Int Delay, s/veh	0.4		- et (2)			
Movement	EBT	EBR	WBL	WBT	NBL	NBR
		LUIN	AADE		TVDL	TOIL
Lane Configurations	↑ ↑	A		1613		26
Traffic Vol., veh/h		4	13		6	26
Future Vol, veh/h	1962	4	13	1613	6	0
Conflicting Peds, #/hr		0	0	0	0	
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None		None
Storage Length		-	275		0	200
Veh in Median Storag		_	-	0	2	
Grade, %	0	-	-	0	0	-
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	2	0	14	2	0	8
Mymt Flow	2180	4	14	1792	7	29
		-				
A	11 1				U. A	
and the same of th	Major1		Major2		Vinor1	
Conflicting Flow All	0	0	2184	0	3106	1092
Stage 1	-		-		2182	
Stage 2			-	-	924	
Critical Hdwy	-		4.38		6.8	7.06
Critical Hdwy Stg 1	-		-	-	5.8	-
Critical Hdwy Stg 2	-		-		5.8	-
Follow-up Hdwy	-		2.34	-	3.5	3.38
Pot Cap-1 Maneuver	-		202		9	200
Stage 1					74	
Stage 2					352	
Platoon blocked, %		-			002	
The second secon		-	200	-	0	200
Mov Cap-1 Maneuver		•	202	•	8	200
Mov Cap-2 Maneuver	-		-		68	_
Stage 1	-	•	-	100	74	-
Stage 2	-	-	-	-	328	-
					1 2	
Approach	EB		WB	711-6	NB	
The second secon	-		0.2	970	33.1	
HCM Control Delay, s	0		0.2			
HCM LOS					D	
Minor Lane/Major Mvi	nt	NBLn11	NBLn2	EBT	EBR	WBL
Capacity (veh/h)		68	200			202
HCM Lane V/C Ratio		0.098				0.072
HCM Control Delay (s	1	63.6	26			
	1	03.0 F	D			24.2 C
HCM Lane LOS	h.\			-		
HCM 95th %tile Q(vel	ıij.	0.3	0.5	-	•	0.2

	-	1	1	—	1	1
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	44	7	ሻ	44	7	7
Traffic Volume (vph)	1944	90	52	1561	63	37
Future Volume (vph)	1944	90	52	1561	63	37
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (ft)		150	150		0	0
Storage Lanes		1	1		1	1
Taper Length (ft)			100		100	
Lane Util. Factor	0.95	1.00	1.00	0.95	1.00	1.00
Frt		0.850				0.850
FIt Protected			0.950		0.950	
Satd. Flow (prot)	3539	1583	1770	3539	1770	1583
Flt Permitted			0.950		0.950	
Satd. Flow (perm)	3539	1583	1770	3539	1770	1583
Link Speed (mph)	55			55	30	
Link Distance (ft)	1016	10.5		1628	1563	
Travel Time (s)	12.6			20.2	35.5	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90
Adj. Flow (vph)	2160	100	58	1734	70	41
Shared Lane Traffic (%)						00
Lane Group Flow (vph)	2160	100	58	1734	70	41
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(ft)	12			12	12	
Link Offset(ft)	0			0	0	
Crosswalk Width(ft)	16			16	16	
Two way Left Turn Lane	Yes		Marson C.	Yes		
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)		9	15		15	9
Sign Control	Free			Free	Stop	
Intersection Summary		- Elemen	- 54g		=1(i o	
	Other			6030	34	
Control Type: Unsignalized				-0-0		
Intersection Capacity Utilizat	ion 63.9%			10	CU Level	of Service B
Analysis Period (min) 15		* * *				

Intersection	- A-	SHIPS I		- 1100		d - 12	Marie Commission of the Commis	Sandones S
Int Delay, s/veh	4.6							VIII.
Movement	EBT	EBR	WBL	WBT	NBL	NBR		
Lane Configurations	44	7	7	44	7	7		
Traffic Vol., veh/h	1944	90	52	1561	63	37		The second second
Future Vol., veh/h	1944	90	52	1561	63	37		
Conflicting Peds, #/hr		0	0	0	0	0		Warness Williams
Sign Control	Free	Free	Free	Free	Stop	Stop		
RT Channelized	-	None	- 1	None	Otop.	None		7 - 7 - 7 - 7 - 7
Storage Length		150	150	-	0	0		107
Veh in Median Storag	e,# 0	-	100	0	2	Ť.		
Grade, %	0	-		0	0			
Peak Hour Factor	90	90	90	90	90	90	Will to the second	
Heavy Vehicles, %	2	2	2	2	2	2		
Mymt Flow	2160	100	58	1734	70	41	11000	
WWITH FILLW	2100	100	00	1734	10	91		
	Major1		Major2		Minor1		1	
Conflicting Flow All	0	0	2260	0	3143	1080		
Stage 1			-				F 10800 11	
Stage 2		-	-	-	983	-		
Critical Hdwy	- 1		4.14		6.84	6.94		
Critical Hdwy Stg 1	-				5.84			
Critical Hdwy Stg 2	-	1 X 2		-	5.84			
Follow-up Hdwy		52	2.22		3.52	3.32		
Pot Cap-1 Maneuver	1 (1)	-	223		~ 8	214		
Stage 1	-		-		74	-		
Stage 2	-		F".		323			
Platoon blocked, %	_						1100	
Mov Cap-1 Maneuver			223		~ 6	214	8	
Mov Cap-2 Maneuver					~ 66			
Stage 1					74			
Stage 2		-			239	-	-112-	
Olage Z					200	1115	W. N. C. STREET, ST.	
	44.4	***	11.00	ciosa			12200	
Approach	EB	-	WB		NB			
HCM Control Delay, s	0		0.9	-	157,7			2500 0
HCM LOS					F			
Minor Lane/Major Mvi	mt	NBLn1	NBLn2	EBT	EBR	WBL	WBT	
Capacity (veh/h)		66	214		20. L	223		
HCM Lane V/C Ratio			0.192			0.259	-	
HCM Control Delay (s		235.1	25.8			26.7		
HCM Lane LOS	1	Z33.1	23.0 D	_	-	D		W MWI
HCM 95th %tile Q(ve	h)	5.4	0.7	_		1		
	11/	0.4	0.7		•	121 11		
Notes		10.3	28 150	Dec are				
~: Volume exceeds ca	apacity	\$: D	elay ex	ceeds 3	00s	+: Con	nputation Not Defined	*: All major volume in platoon
and the second of the second	C-7-6-						0.00	

	1	—	+	4.	. 🍆	1	
Lane Group	EBL	EBT	WBT	WBR	SBL	SBR	100
Lane Configurations		4	1		Y		
Traffic Volume (vph)	5	34	18	6	14	15	100
Future Volume (vph)	5	34	18	6	14	15	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	100
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	
Frt			0.965		0.930		
Flt Protected		0.993			0.976		
Satd. Flow (prot)	0	1887	1834	0	1725	0	
Flt Permitted		0.993			0.976	. Comment of the comm	
Satd. Flow (perm)	0	1887	1834	0	1725	0	
Link Speed (mph)		30	30		30		. 111
Link Distance (ft)		559	769		549		
Travel Time (s)		12.7	17.5		12.5		
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%	
Adj. Flow (vph)	6	38	20	7	16	17	
Shared Lane Traffic (%)						9	
Lane Group Flow (vph)	0	44	27	0	33	0	
Enter Blocked Intersection	No	No	No	No	No	No	
Lane Alignment	Left	Left	Left	Right	Left	Right	
Median Width(ft)		0	0	-	12		*
Link Offset(ft)		0	0		0		
Crosswalk Width(ft)		16	16		16		
Two way Left Turn Lane							
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	
Turning Speed (mph)	15			9	15	9	
Sign Control		Free	Free		Stop		
Intersection Summary	-55 %	0.00	1 8	III Gg			
	ther	550	9				
Control Type: Unsignalized		THE STATE OF	2	No.			
Intersection Capacity Utilizati	ion 16.0%)		IC	U Level	of Service	Α
Analysis Period (min) 15	we—II						-

Participation (Control of the Control of the Contro						
Intersection		\$78 III	III.	ar kanalan	31	
Int Delay, s/veh	3.1					
		-	10.10.15	11/55	001	
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		4	1≯		Y	
Traffic Vol., veh/h	5	34	18	6	14	15
Future Vol, veh/h	5	34	18	6	14	15
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-		-	None	assista.	None
Storage Length				-	0	-
Veh in Median Storage	.# -	0	0	-	0	
Grade, %	4 "	0	0		0	_
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	0	0	0	0	0	0
	6	38	20	7	16	17
Mvmt Flow	0	30	20	- 1	10	11
Major/Minor I	Major1	N	/ajor2	ħ	/linor2	
Conflicting Flow All	27	0	-	0	74	24
Stage 1			and the same		24	
Stage 2					50	-
Critical Hdwy	4.1	100			6.4	6.2
Critical Hdwy Stg 1					5.4	0,2
Critical Hdwy Stg 2				or 7	5.4	-
		•				
Follow-up Hdwy	2.2	-		•	3.5	3.3
Pot Cap-1 Maneuver	1600	-	-	-	935	1058
Stage 1		-	_	_	1004	-
Stage 2	-		-	•	978	•
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1600	-	-		931	1058
Mov Cap-2 Maneuver		-	-	-	931	-
Stage 1	-	-		-	1000	5 (+)
Stage 2					978	-
			10.00			
Approach	EB		WB		SB	
HCM Control Delay, s	0.9		0		8.7	
HCM LOS					Α	
		1				
Minor Lanothdoine Min	nt	EBL	EDT	MPT	WBR:	CRI n1
Minor Lane/Major Mvn	IL		EBT			
Capacity (veh/h)		1600	-		-	
HCM Lane V/C Ratio		0.003	-	-		0.032
HCM Control Delay (s)	8	7.3	0	-	-	8.7
HCM Lane LOS		Α	Α	-	-	Α
HCM 95th %tile Q(veh)	0	-	-	-	0.1

Summary of All Intervals

Start Time	6:50	
End Time	8:00	
Total Time (min)	70	
Time Recorded (min)	60	F.11=3,445
# of Intervals	2	
# of Recorded Intervals	1	
Vehs Entered	3320	
Vehs Exited	3328	
Starting Vehs	100	
Ending Vehs	92	
Travel Distance (mi)	4579	
Travel Time (hr)	94.6	100
Total Delay (hr)	9.2	
Total Stops	201	
Fuel Used (gal)	139.3	

Interval #0 Information Seeding

	· · · · · · · · · · · · · · · · · · ·
6:50	
7:00	
10	
th Factors.	
val.	
	7:00 10 th Factors.

No.			- V		The state of the s
Start Time	7:00				
End Time	8:00	212-7-1-10-2			
Total Time (min)	60				
Volumes adjusted by Grov	vth Factors.		VIII	- V	30.50

3320	
3328	W
100	
92	
4579	
94.6	
9.2	The same of the sa
201	
139.3	
	3328 100 92 4579 94.6 9.2 201

Movement	WB	NB	NB	
Directions Served	L	L	R	
Maximum Queue (ft)	47	115	51	
Average Queue (ft)	3	43	7	
5th Queue (ft)	22	96	30	
ink Distance (ft)		4.4	1116	
Jpstream Blk Time (%)				
Queuing Penalty (veh)		19		
Storage Bay Dist (ft)	250	175	PASSAGE TO THE	
Storage Blk Time (%)				
Queuing Penalty (veh)		7.7	100-10	

Movement	WB	NB	NB	
Directions Served	The ACCT FOR	L	R	
Maximum Queue (ft)	44	50	31	
Average Queue (ft)	2	10	17	
95th Queue (ft)	17	32	41	
Link Distance (ft)	10.00	1363		
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)	275		200	
Storage Blk Time (%)				
Queuing Penalty (veh)				
and the state of t				

Intersection: 3: Bailey Park #1 & SC 170

Movement	WB	NB	NB	
Directions Served	L	L	R	
Maximum Queue (ft)	32	182	44	
Average Queue (ft)	8	43	12	
95th Queue (ft)	29	104	33	
Link Distance (ft)		1506	1506	
Upstream Blk Time (%)				
Queuing Penalty (veh)	March Series			
Storage Bay Dist (ft)	150			
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 4: Old Bailey Rd & Bailey Park #2

SB				
LR				
31				Contract of
18		11.59 (31.99A -		
43		- Salva	1000	
520		#		
THE RESERVE OF THE PERSON NAMED IN COLUMN			7.0	
The second secon	3		1.00	TO WIE
1447 THE TOTAL TOT				
		HILLS TO SERVICE	1 7 7	100 100
	LR 31 18 43	LR 31 18 43	LR 31 18 43	LR 31 18 43

Network Summary

Summary of All Intervals

Start Time	3:50	
End Time	5:00	J. P. P. Carlotte
Total Time (min)	70	
Time Recorded (min)	60	
# of Intervals	2	
# of Recorded Intervals	1	
Vehs Entered	3833	
Vehs Exited	3804	
Starting Vehs	139	
Ending Vehs	168	
Travel Distance (mi)	5588	
Travel Time (hr)	147.5	
Total Delay (hr)	42.6	
Total Stops	255	
Fuel Used (gal)	176.1	

Interval #0 Information Seeding

Start Time	3:50	
End Time	4:00	
Total Time (min)	10	
Volumes adjusted by Grov	vth Factors.	
No data recorded this inter	rval.	

		 _
Start Time	4:00	
End Time	5:00	
Total Time (min)	60	
Volumes adjusted by Gro	wth Factors.	

Vehs Entered	3833	
Vehs Exited	3804	
Starting Vehs	139	
Ending Vehs	168	
Travel Distance (mi)	5588	
Travel Time (hr)	147.5	
Total Delay (hr)	426	
Total Stops	255	
Fuel Used (gal)	176.1	

WB	NB	NB	
L	L	R	
29	274	586	
3	243	264	
18	324	611	
		1116	
47.30	10 7399	100	
	0.00		
250	175		
	87		
	4	Maritimes)	
	29 3 18	L L 29 274 3 243 18 324 250 175 87	L L R 29 274 586 3 243 264 18 324 611 1116 250 175 87

Intersection: 2: Old Bailey Rd East & SC 170

Movement	WB	NB	NB	
Directions Served	L	L	R	N/2 NA
Maximum Queue (ft)	48	52	94	
Average Queue (ft)	9	13	24	
95th Queue (ft)	32	40	66	
Link Distance (ft)	- 273	1363		
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)	275		200	
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 3: Bailey Park #1 & SC 170

Movement	WB	NB	NB	
Directions Served	L	L	R	
Maximum Queue (ft)	95	828	63	
Average Queue (ft)	31	417	19	
5th Queue (ft)	67	757	45	
ink Distance (ft)		1506	1506	
Jpstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)	150			
Storage Blk Time (%)				
Queuing Penalty (veh)				The state of the s

Intersection: 4: Old Bailey Rd & Bailey Park #2

Movement	SB	
Directions Served	LR	
Maximum Queue (ft)	30	
Average Queue (ft)	19	
95th Queue (ft)	42	
Link Distance (ft)	520	
Upstream 8lk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Network Summary

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