AGENDA ITEM: XI-B

Ordinance item B



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 hwagner@jaspercountysc.gov

Jasper County Council Staff Report

Meeting Date:	September 6, 2022
Project:	Planned Development District Zoning Designation and Concept Plan Approval – Bailey Park
Applicant:	K & R Development, LLC
Tax Map Number:	081-00-04-007 and 081-00-04-080
Submitted For:	Public Hearing and 2 nd 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	ľ
	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 will be a minimum of 20'.
- Landscaping Standards will meet or exceed the County's requirements.
- 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

Attachments:

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

Page 4 of 4 Bailey Park PDD

STATE OF SOUTH CAROLINA JASPER COUNTY

ORDINANCE #0-2022 -26

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	
ATTEST:	
Wanda Simmon Clerk to Council	_

ORDINANCE: # 0-2022-26	
First Reading: August 15, 2022	
Second Reading: September 6, 2022	
Public Hearing: September 6, 2022	
Adopted: September 6,2022	
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 Date	_

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

ien@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.

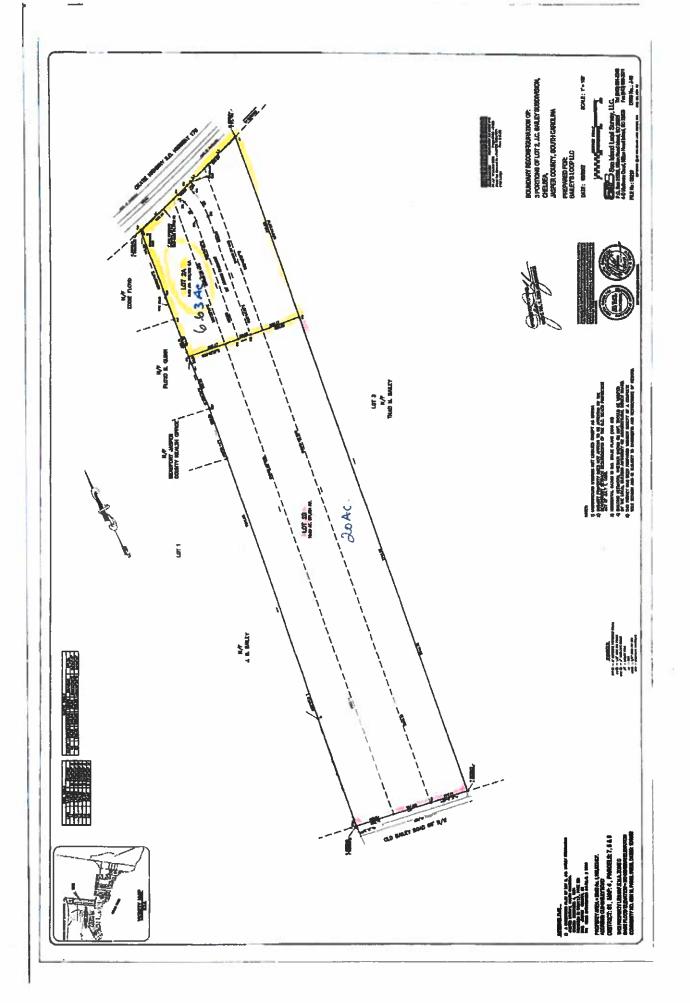
With your approval, K & R respectfully requests our application be presented to the Jasper County Planning Commission for their consideration and approval at the April 12th, 2022 meeting. Please let me know what else may be needed prior to the meeting.

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





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.

Signature of Owner or Owner-Authorized Applicant (Proof of owner-authorization required)	Date
Internal Use On	ly
Date Received:	
Amount Received:	
Staff Member:	

PLANNED DEVELOPMENT DISTRICT AND CONCEPT PLAN

FOR

BAILEY PARK

Jasper County, South Carolina

FOR

BAILEY PARK, LLC

 \mathbf{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.

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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

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

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.

12

- 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.

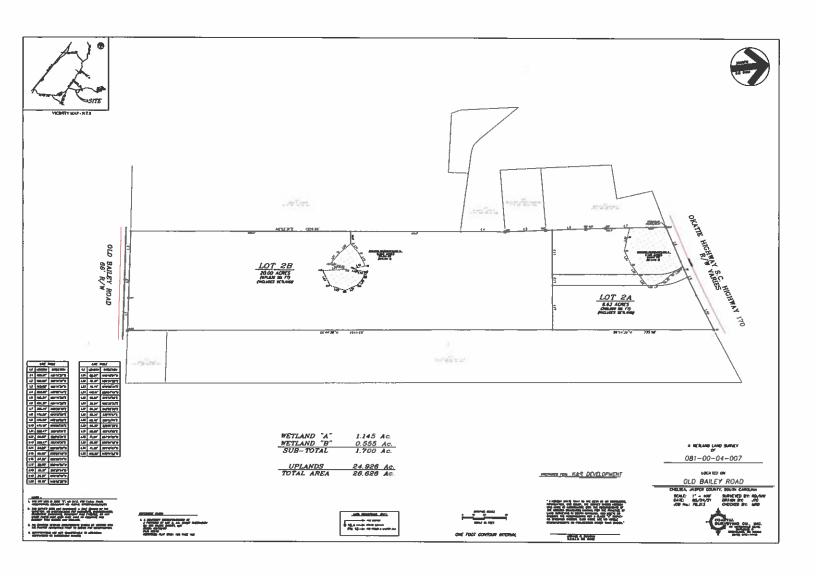
APPENDIX A

SITE LOCATION MAP



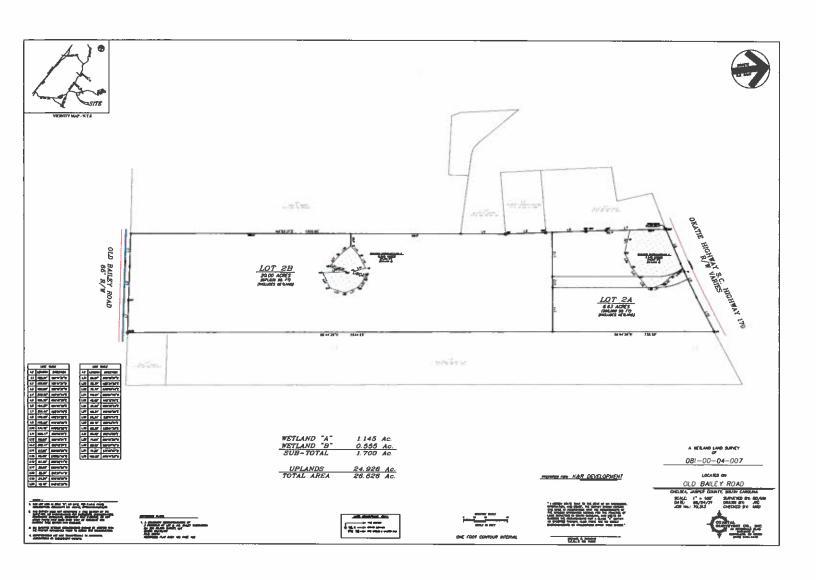
APPENDIX B

SITE SURVEY



APPENDIX C

FRESHWATER WETLANDS DELINEATION



APPENDIX D

USDA SOILS DATA



MAP LEGEND MAP INFORMATION The soil surveys that comprise your AOI were mapped at Area of Interest (AOI) Spoil Area B Area of Interest (AOI) Stony Spot ā Solls 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 Wet Spot Ø. 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 Δ Soil Map Unit Points contrasting soils that could have been shown at a more detailed Special Line Features 49 Special Point Features **Water Features** (y) Blowout Please rely on the bar scale on each map sheet for map Streams and Canals Borrow Pit • • Transportation Clay Spot × Source of Map: Natural Resources Conservation Service Rads +++ Web Soil Survey URL: **Closed Depression \(\)** Interstate Highways Coordinate System: Web Mercator (EPSG:3857) -Gravel Pit X US Routes Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts Gravelly Spot 45 Major Roads distance and area. A projection that preserves area, such as the Ó Landfill Albers equal-area conic projection, should be used if more Local Roads accurate calculations of distance or area are required. Lava Flow ٨ Background This product is generated from the USDA-NRCS certified data as Aerial Photography 4 Marsh or swamp 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 0 Perennial Water Soil Survey Area: Jasper County, South Carolina Survey Area Data: Version 16, Aug 30, 2021 Ò 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 141 Sandy Spot different levels of detail. This may result in map unit symbols, soil Saverely Eroded Spot properties, and interpretations that do not completely agree across soil survey area boundaries. ٥ Soil map units are labeled (as space allows) for map scales Slide or Slip þ 1:50,000 or larger. Sodic Spot Date(s) aerial images were photographed: Feb 21, 2021---Feb 23, 2021

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.



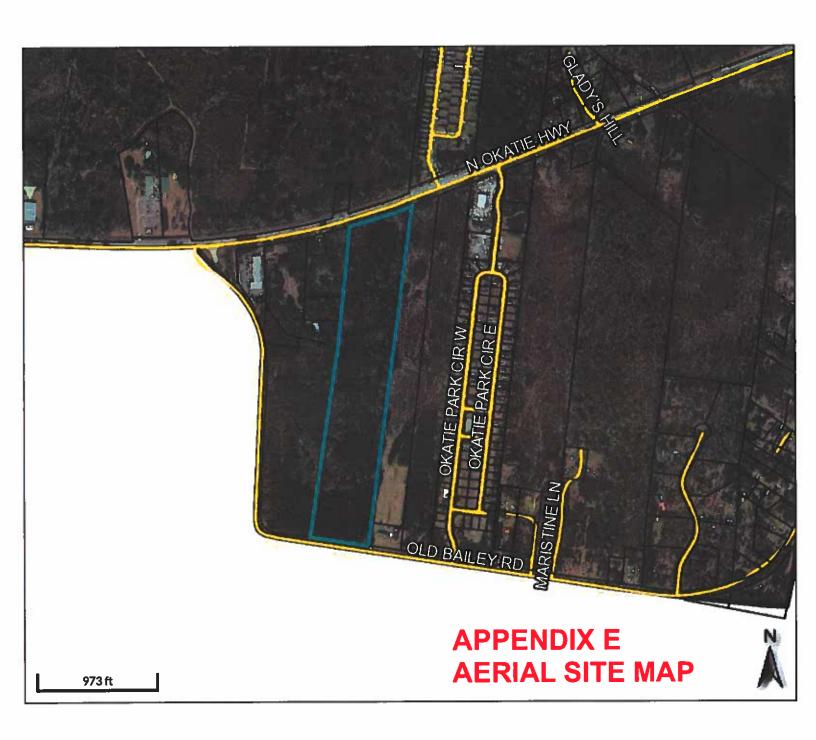
Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Cs	Coosaw loamy fine sand	0.1	0.59
Subtotals for Soil Survey A	Area	0.1	0.5%
Totals for Area of Interest		29.1	100.09

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 Soll Survey A	rea	28.9	99.5%
Totals for Area of Interest		29.1	100.0%

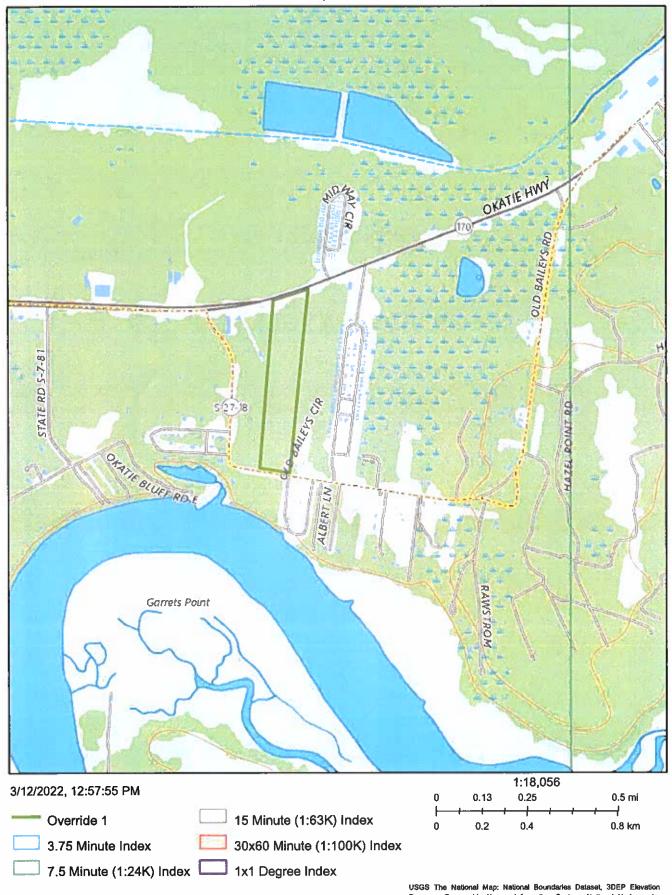
APPENDIX E

AERIAL SITE MAP



APPENDIX F USGS QUADRANGLE MAP

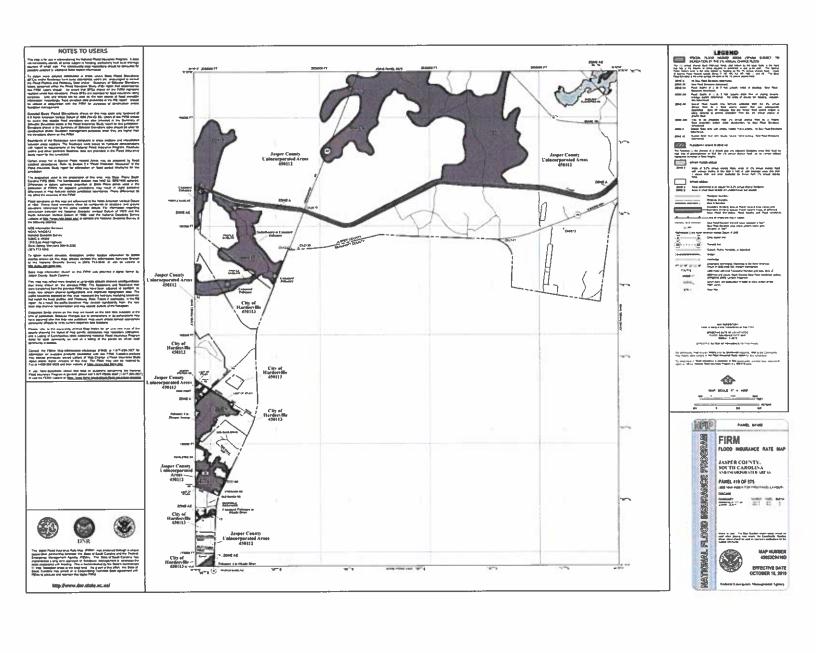
The National Map Advanced Viewer



USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS Global Ecosystems; U.S. Census

APPENDIX G

FEMA MAP



National Flood Hazard Layer FIRMette 🐼 FEMA AREA OF MINIMAL FLOOD HAZARD Just County 450112 45053C0410D eff (10/18/2019 Beaufort County 450025 Zone AE (EL 10 Feet) (ELS11 Feet)

250

500

1,000

1,500

1:6,000

Basemap: USGS National Map: Ortholmagery: Data refreshed October, 2020

Legend SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT Without Base Flood Elevation (BFE) Zone A. V. 499 With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD Regulatory Floodway 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage Future Conditions 1% Annual Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes. Zone X OTHER AREAS OF Area with Flood Risk due to Levee Zone D NO SCREEN Area of Minimal Flood Hazard Zore X TEffective LOMRs OTHER AREAS Area of Undetermined Flood Hazard 2000 0 GENERAL ---- Channel, Culvert, or Storm STRUCTURES 1111111 Levee, Dike, or Floodwall - - - Channel, Culvert, or Storm Sewer 20.2 Cross Sections with 1% Annual Chance 17.8 Water Surface Elevation **Constal Transact** Base Flood Elevation Line (BFE) Limit of Study - Jurisdiction Boundary --- Coastal Transect Baseline OTHER FEATURES - Profile Baseline Hydrographic Feature Digital Data Available No Digital Data Available MAP PANELS Unmapped The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

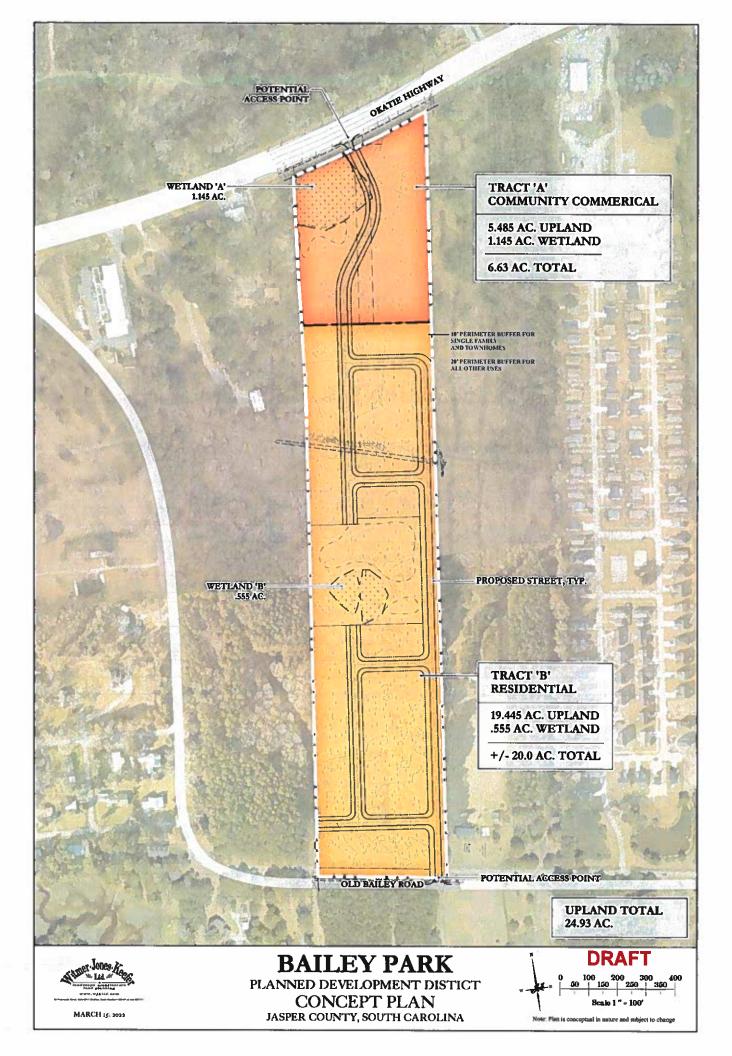
This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

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 effective date. Map images for unmapped and unmodernized 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



6 SNAKE ROAD, OKATIE, SC 29909-3837
Phone 843.987.8100 | Fax 843.548.0096
Customer Service 843.987.9200
Operations & Maintenance 843.987.8046
Engineering 843.987.8065

Our mission: inspire trust and enhance public health

JOE MANTUA, PE. GENERAL MANAGER

March 02, 2022

Jen Tosky K & R Development 254 Red Cedar St., #12 Bluffton, SC 29910

Via email: jen@kennethscottbuilders.com

Subject: Water and Sewer Availability - Highway 170 & Bailey's Road, PlN 081-00-04-007.

Dear Jen,

This letter is in response to the water and sewer availability request for Bailey Park at the above referenced parcel. Water is available from BJWSA's 8" water main located within the Old Baileys Road and 30" water main located with the North Okatie Highway (170) right of way. With respect to sanitary service, there is an 8" force main wastewater line located within the North Okatie Highway (170) right of way, and gravity sewer within the Okatie Park Circle West right of way. Please be advised, depending on the amount of water and sewer capacity required to serve the development, the developer maybe responsible for offsite improvements or upgrades to the existing system.

If or when you wish to proceed with this development, please have your engineer contact BJWSA's engineering department to schedule a predesign meeting. Upon conceptual approval by this office, design drawings and calculations must be submitted by a professional engineer to BJWSA's Engineering Department for review and approval. Upon approval, capacity and project fees will be determined based on the information provided. These fees must be paid in full before a capacity commitment can be issued or a pre-construction meeting may be held. If construction on the proposed water and sewer systems has not started within twelve (12) months from the date of this letter, this availability will be invalid.

Should you have questions or require additional information, please contact me at 843-987-8082 or iames.clardy@biwsa.org.

Sincerely,

James Clardy

Development Projects Manager

JBC/mya

JAMES E. BAKER JR

GREGORY A. PADGETT

DONNA L. ALTMAN SECRETARY/TREASURER MICHAEL L. BELL MIMEDIATE PAST CHAR

LORRAINE W BOND R THAYER RIVERS, JR BRANDYM GRAY GERALDH SCHLIZE

ANDERSON M. KINGHORN, JR. WILLIAM SINGLETON, Ed.D. J ROBERT MAFEE PE



Letter of Power Availability

April 21, 2022

Jen Tosky Kenneth Scott Builders Bluffton, S.C.

Re: Bailey Park, Highway 170, Jasper County, S.C.

Ms. Tosky,

I am pleased to inform you that Dominion Energy will be able to provide electric service to the above referenced project. Electric service will be provided in accordance with Dominion Energy General Terms and Conditions, other documents on file with the South Carolina Public Service Commission, and the company's standard operating policies and procedures. To begin engineering work for the project, the following information will need to be provided:

- 1. Detailed utility site plan (AutoCAD format preferred) showing water, sewer, and storm drainage as well as requested service point/transformer location.
- Additional drawings that indicate wetlands boundaries, tree survey with barricade plan and buffer zones (if required), as well as any existing or additional easements will also be needed.
- 3. Electric load breakdown by type with riser diagrams and desired metering specifications.
- 4. Dominion Energy has specific requirements for electric service to new water and sewer pump- stations. If your project requires these facilities, please contact me for more details.

Please note that for multi-occupancy residential developments per SC Public Service Commission Regulation 103-327(A): All service delivered to new multi-occupancy residential premises at which units of such premises are separately rented, leased, or owned shall be delivered by an electric utility based on individual meter measurement for each dwelling.

Dominion Energy construction standards and specifications are available here: https://www.dominionenergy.com/south-carolina/start-stop-service/new-construction

If you have any questions, please contact me at 843-540-1315.

Sincerely,

Parks Moss

Parks Moss
Dominion Energy South Carolina

Mary Debra Cooler's Response to Proposed BAILEY PARK, PDD



Debbie Cooler <mdebracooler@gmail.com>

♣ Reply all | ∨

Today, 1:04 AM Lisa Wagner *

Inbox

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Attention: Lisa Wagner and the Jasper County Planning Department

This correspondence is in response to the proposed BAILEY PARK, PDD, located between Old Baileys Road and Highway #170, Okatie, SC, Tax Map # 081-00-04-007.

As Representative for the THOUSAND PLUS RESIDENTS on OLD BAILEY ROAD and the LOW BOTTOM AREA, we are greatly concerned about the SHORT NOTICE and INABILITY to MEET in PERSON with the Jasper County Planning Board to discuss our grievances regarding BAILEY PARK, PDD.

Our grievances include, but are not limited to:

- 1- ONLY 3 1/2 DAYS RESPONSE TIME to development that will greatly impact our QUALITY of LIFE
- 2- Old Bailey Road is a RURAL road, and we do not support INCREASED TRAFFIC on our narrow, unkept road.
- 3- We DO NOT SUPPORT an ENTRANCE or ACCESS from Old Bailey Road. The proposed development is just beyond a CURVE, and it will be DANGEROUS for cars entering or exiting from the proposed development.
- 4- We request BUFFERS between the proposed development, Old Bailey Road, and current residential housing.
- 5- The HOUSING DENSITY of the proposed development is alarming with regards to the PERSONAL SECURITY of CURRENT RESIDENTS and the SAFETY of CHILDREN playing along OLD BAILEY ROAD.
- 6- CUMULATIVE WATERSHED EFFECT on the environment will be highly detrimental with the proposed maximum housing.
- 7- SURFACE RUNOFF IMPACT
- 8- NOISE and LIGHT POLLUTION from the EXCESS NUMBER of RESIDENTIAL UNITS
- 9- QUALITY of DRINKING WATER 1
- 10- QUALITY of the OKATEE RIVER, one of the FEW REMAINING PRISTINE WATERS in our LOWCOUNTRY
- 11- EROSION to the QUALITY of LIFE that has been PRESERVED for CENTURIES

The land allotted for the proposed BAILEY PARK, PDD has been in our BAILEY/JOHNSON family for, at least, EIGHT GENERATIONS and was part of an ORIGINAL LAND GRANT.

We respectfully request our concerns to be given consideration. Thank you.

 ⇒ Reply all | ✓
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 Mary Debra Cooler
 Granddaughter and Heir of Thaddeus Matthew Bailey, Sr.



AECOM



Bailey Park

Traffic Impact Study

April 2022

Quality inform	nation					
Prepared by	Ch	ecked by		Verified by		Approved by
Jacob Nelson, PE		an Eckenrode, OE, RSP2I	P.E.			
Revision Hist	tory					
Revision	Revision dat	te Details		Authorized	Name	Position

Distribution L	ist					
# Hard Copies	PDF Require	ed Association	on/Co	ompany Name		

Prepared for:

Jennifer Tosky Kenneth Scott Builders 254 Red Cedar Street, Suite 12 Bluffton, South Carolina 29910

Prepared by:

AECOM 10 Patewood Drive Greenville, SC 29615 aecom.com

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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.



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FIGURE 1

VICINITY MAP

Bailey Park Traffic Impact Analysis - Jasper County, SC



Drawing Not to Scale

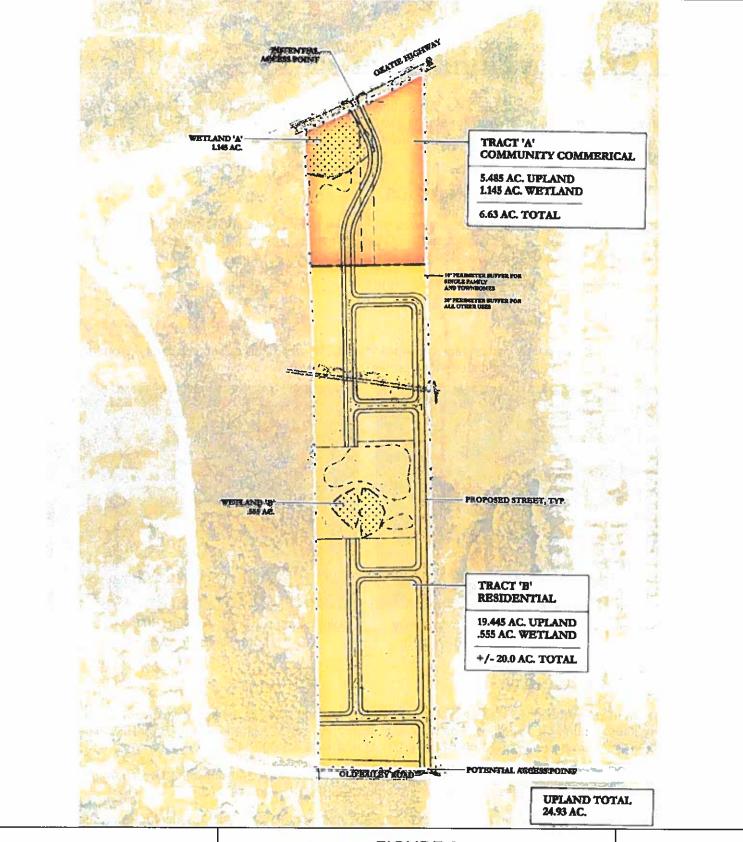




FIGURE 2

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



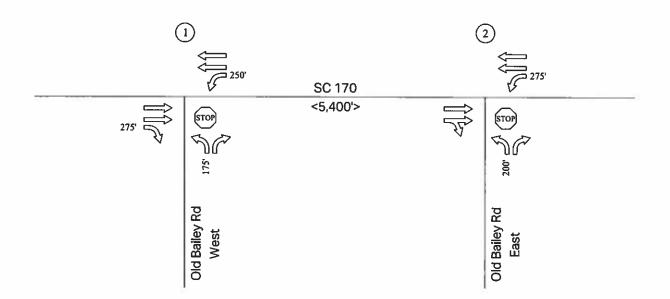
Looking east toward proposed driveway location along Old Bailey Road

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



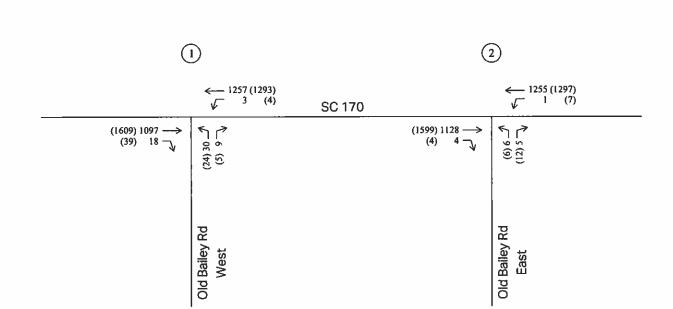
FIGURE 3

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

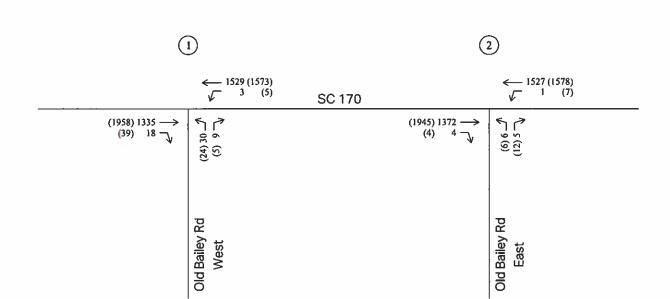
4.1 AADT Trends

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

		10010		1 Hollas	*			
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



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

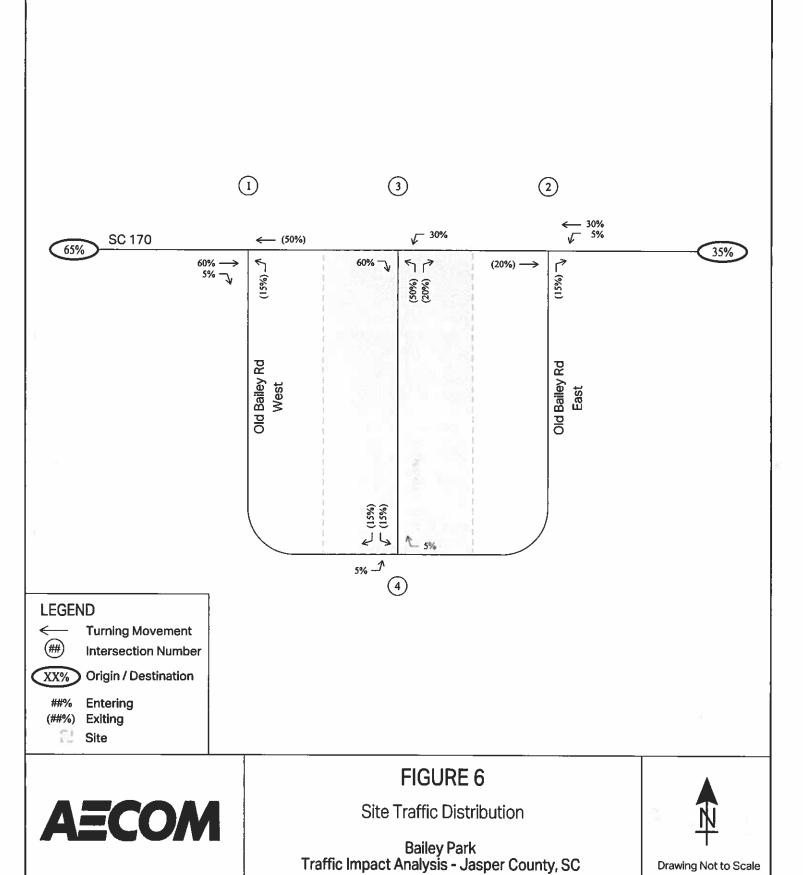
				DIO E 1	TIP OCI	0101011				
Land Use	ITE		Daily		Al	II Peak Ho	ur	Р	M Peak H	our
Туре	Code	Total	Enter	Exit	Total	Enter	Exit	Total	Enter	Exit
65,280 SF Commercial	820	2,464	1,232	1,232	61	38	23	249	120	129
233 Townhomes	220	1,722	861	861	107	25	82	125	79	46
New Vehicle Trips	•	4,186	2,093	2,093	168	63	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

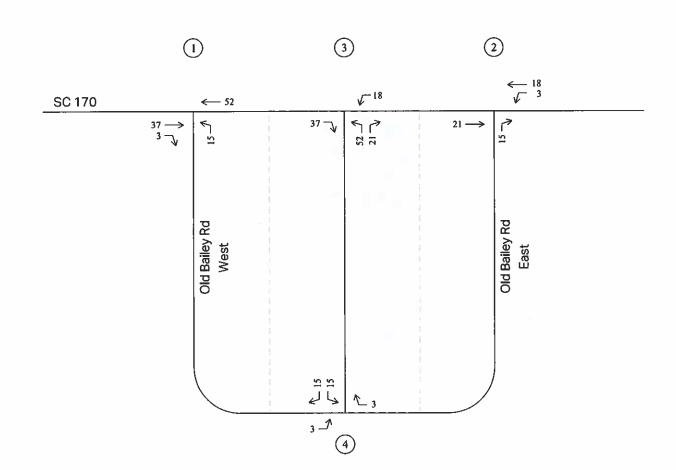
5.2 Trip Distribution

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**.





LEGEND



Turning Movement



Intersection Number



AM Peak Hour Site Traffic Volume



Site

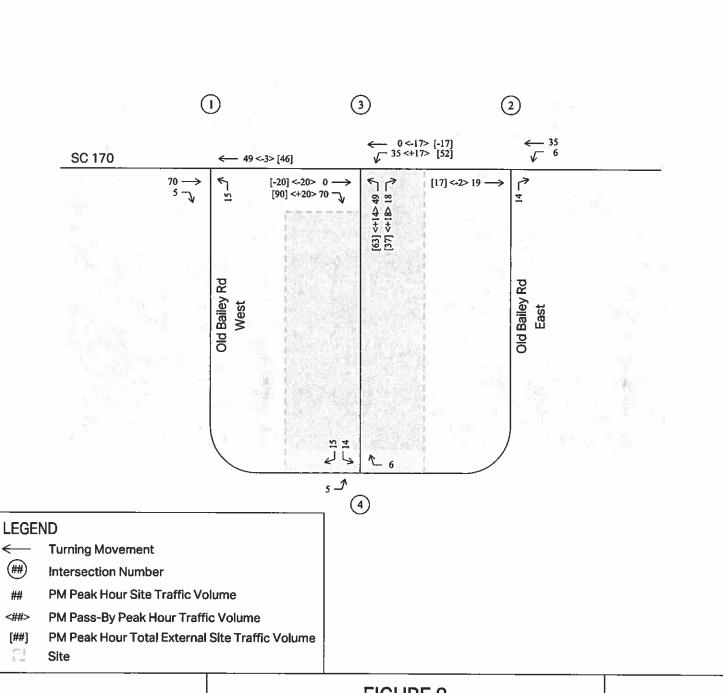


FIGURE 7

Site Traffic Volume AM

Bailey Park Traffic Impact Analysis - Jasper County, SC





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(##)

<##>

[##]

FIGURE 8

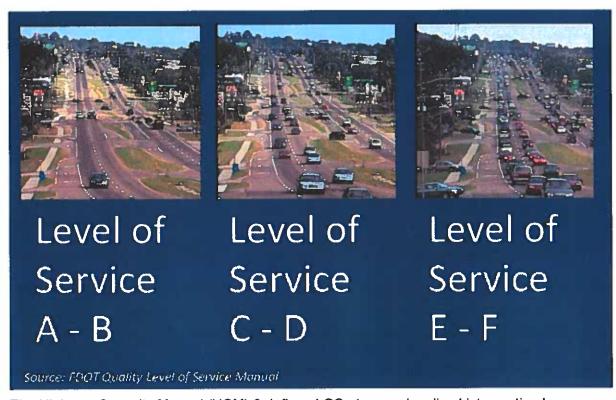
Site Traffic Volume PM

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

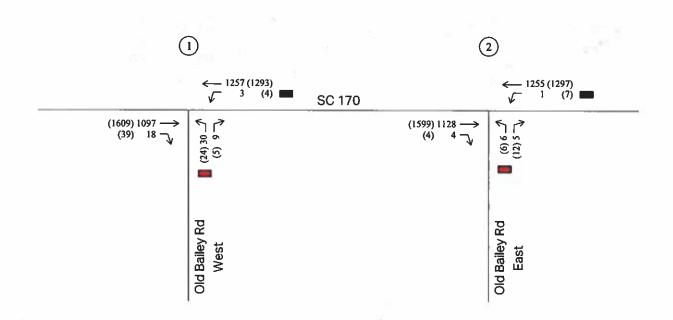
	Table 4	- Existing 2022	Gailline	ny or Ee	Q una	Dolay		
ID#	Intersection	Approach	Lev	M 6 el of e (LOS)	De	ntrol lay /veh)	Volun Capacit (V/	y Ratio
			AM	PM	AM	PM	AM	PM
		EBR	Α	Α	0.0	0.0	-	-
	SC 170 at	WBL	С	В	16.3	14.9	0.010	0.012
1	Old Bailey Road West (Unsignalized)	NBL	D	E	26.5	48.0	0.228	0.306
	(01101911011200)	NBR	В	С	13.6	16.9	0.034	0.025
		EB	Α	Α	0.0	0.0	-	
	SC 170 at	WBL	В	С	12.6	16.8	0.002	0.025
2	Old Bailey Road East (Unsignalized)	NBL	D	E	25.0	37.5	0.068	0.078
		NBR	В	С	13.1	18.4	0.024	0.065

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

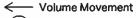
Table 5 - Existing 2022 Summary of 95th Percentile Queues

ID#	Intersection	Approach	Storage Length	95th Perce (f	ntile Queue t)
			(ft)	AM	PM
		EBR	275	0	0
	SC 170 at	WBL	250	21	22
'	Old Bailey Road West (Unsignalized)	NBL	175	72	93
	(and grant and	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

1e 1e

LOS D

Unsignalized LOS

(Critical Peak Hour)





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

	i able o - b	ackground 20	Zi Sullii	naly of t	-US all	iu Dela	<u>y</u>	
ID#	Intersection	Approach		M 6 el of e (LOS)	Cor De (sec		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
	Old Bailey Road West (Unsignalized)	NBL	D	F	33.5	77.4	0.210	0.356
	(37.3.g., a., 20.3)	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
	(37.3.3.74.7	NBR	В	С	14.7	22.9	0.015	0.062

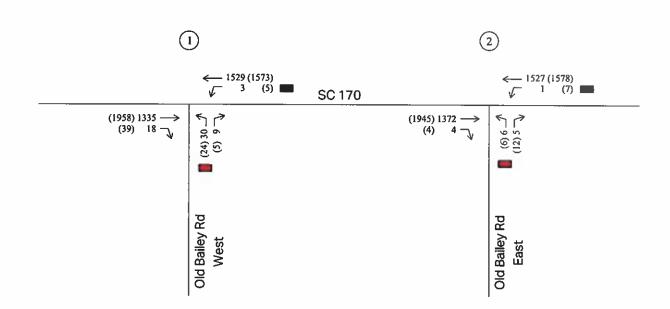
Figure 10 shows the Background 2027 AM and PM peak hour volumes and LOS.

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 ft)
			(ft)	AM	PM
		EBR	275	0	0
	SC 170 at	WBL	250	16	12
11	Old Bailey Road West (Unsignalized)	NBL	175	75	314
	(Onlorginalize a)	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**



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 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

ID#	Intersection	Approach	Level of (L0	M 6 Service DS)	De (sec	ntrol lay /veh)	Volun Capacit (V/	y Ratio C)
		EBD	AM	PM	AM	PM	AM	PM
	SC 170 at	EBR	A	A	0.0	0.0		-
1	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 Old Bailey Road East	WBL.	С	C	16.1	24.2	0.014	0.072
-	(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	(f	·
			(ft)	AM	PM
		EBR	275	0	0
	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

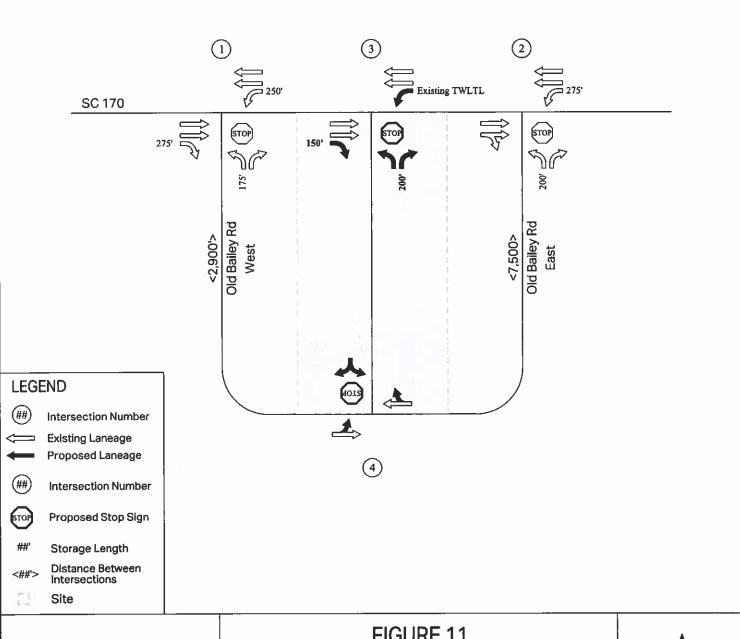


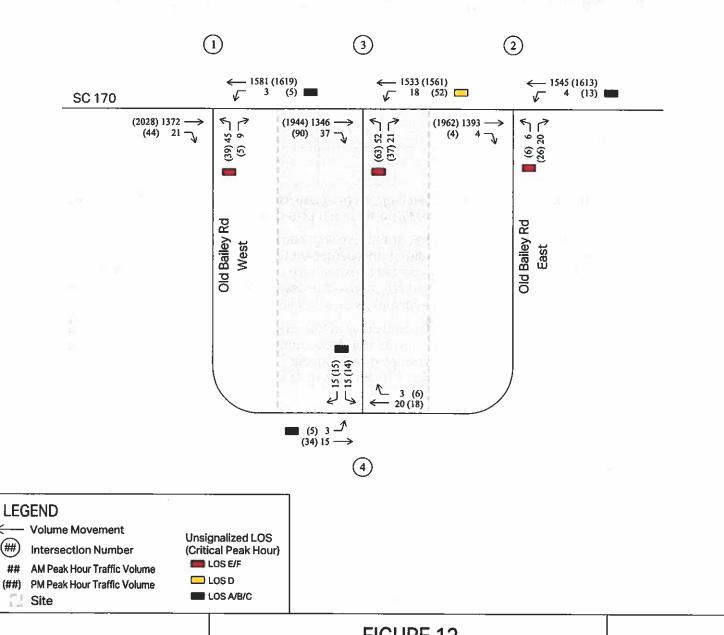


FIGURE 11

Build 2027 Lane Configuration

Bailey Park Traffic Impact Analysis - Jasper County, SC







(##)

FIGURE 12

Build 2027 AM / PM Peak Hour Volumes & LOS

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 - C	oonano o	anninary (71 BOO WILL	+,		
				Level	of Service	and Delay	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

		SR S-7	-18/Ok	Balley	RdW	$\overline{}$		3R S-7	-18/Old	Bailes	Rd W			SF	170/OI	ustie Hh	NY			S	R 170/01	catle Hv	У		
- 1			North			1			Southl						Easth	ound	-				Westb		-		
tart Time	Left	Thru	Rgt	Uturn	Peds	App Total	Left	Tinnu	Rgt		Peda 4	po Toras		Thru	Rgt			ep Tetal	Left	Thru			Peds /		
7.00 AM	7	0	1	0	-0	В	0	0	0	- 0	0	0	0	258	7	0	0	265	1	349	0		0	350	62
7:15 AM	10	0	6	0	O	16	0	0	0	0	0	0	0	287	6	0	0	293	0	332	0	-	0	332	64
7:30 AM	7	0	2	0	0	9	0	0	0	0	0	0,	0	294	3	0	0	297	1	321	0		0	322	62
7:45 AM	- 6	0	0	0	0	6	0	0	0	0	0	0	0	258	2	0	0	260	1	255	0		0	256	52
Total	30	0	9	0	0	39	0	0	0	0	0	0	0	1097	18	0	0	1115	3	1257	0		0	1260	241
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	242	50
8 15 AM	8	0	0	0	0	8	0	0	0	0	0	0	0	219	1	0	0	220	1	269	0		0	270	49
8 30 AM	3	0	0	0	0	3	0	0	0	0	0	0	0	218	4	0	0	222	0	281	0		0	281	50
8 45 AM	0	0	0	0	0	Û	0	0	0	0	0	0	0	225	5	0	0	230	3	249	0		0	252	48
Total	15	0	Ð	0	0	15	0	0	. 0	0	0	O	0	918	13	0	0	931	5	1040	0	0	0	1045	199
"BREAK"																									
																		1				_	_		
4 00 PM	6	0	3	0	0	11	0	0	0	0	0	0	0	409	11	0	0	420	1	369	0		0	370	80
4 15 PM	2	-0	1	0	0	3	0	0	0	0	0	Q	0	422	- 11	0	0	433	3	326	0		0	329	76
4 30 PM	а	O	1	0	0	9	0	0	0	0	0	0	0	391	9	0	0	400	0	321	0		0	321	73
4 <u>45 PM</u>	6	0	0	0	- 0	6	0	0	0	0	0	G	- 0	387		0	0	395	. 0	277	0		0	277	67
Total	24	0	5	0	0	29	0	Q	0	0	0	0	-0	1609	39	0	0	1648	4	1293	0		0	1297	297
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	252	5
5 15 PM	5	0	- 1	0	0	6	0	0	0	0	0	0	0	298	11	0	0	309	0	216	0		0	216	53
5:30 PM	1	0	0	0	0	- 1	0	0	0	0	0	a	Û	247	6	0	0	253	1	200	0		0	201	45
5 45 PM	0	0	2	- 0	0	2	0	0	- 0	0	0	0	-0	185	- 6	0	0	191	- 1	155	0		0	158	3
Total	9	0	4	0	0	13	0	0	0	0	0	C	0	1057	31	0	0	1088	3	822	0	0	0	825	193
Grand Total	78	0	18	- 0	0	96	0	0	0	0	0	0	0	4681	101	0	0	4762	15	4412	0	0	0	4427	93
Approh %	813	0.0	18 8	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	97.9	21	0.0	0.0		03	99 7	0.0		0.0		
Total %	0.6	0.0	0.2	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50 3	1.1	0.0	0.0	51.4	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	0	4460	97	0		4557	12	4239	0			4251	890
% 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	95 3	96.0	0.0		95 3	80 0	96 1	0.0	0.0		96.0	95
Heavy trucks	3	0	1	0		4	0	- 0	0	0		0	Û	221	4	0		225	3	173	0			176	
MHeavy trucks	38	0.0	5.6	0.0		42	0.0	0.0	0.0	0.0		0.0	0.0	4.7	40	0.0		47	20 0	39	0.0	0.0		4.0	4

Project (D: 22-150013-001 Location: SR 5-7-16/Old Bailey Rd W & SR 170/Okatle Hwy City: Ridgetand

PEAK HOURS

Day: Thursday Date: 4/7/2022

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Peak Hour Idi En	Cast. et risks S	ивсион	Değirdi e	81 07.00	PVN																
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PHF					0 609										0 939					0 900	0 941
Cars, PU, Vans	29	0	6	0	37	0	0	0	0	0	0	1021	17	0	1038	1	1201	0	0	1202	2277
% Cars PU. Vans	96 7	00	88 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	Û	0	0	0	0	76	1	0	77	2	56	0	Đ	58	137
%Heavy tracks	33	0.0	31.1	0.0	5 1	0.0	0.0	0.0	0.0	0.0	0.0	69	56	0.0	69	66 7	45	0.0	0.0	46	5.7
PM							. *					00.470	DOM: AND	. 41			00.45	arat - u	Mana		
PM	SR:		Old Bai		w	SR			iley Rd \	v		SR 170						0/Okatie			
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Stan Time Peak Hour Analys Peak Hour for En 4 00 PM 4 15 PM 4 30 PM 4 45 PM Total Volume % App Total PHF	Left sas from Core Inters	No Thru DA 00 P section 0 0 0 0	Rgt Rgt	0 PM et 04 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PM 11 3 9 6 29 100 0 659	0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Rgt 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Uturn	0 0 0 0	0 0 0 0	409 422 391 387 1609 97 6	11 11 9 8 39 2 4	0 0 0 0 0	420 433 400 395 1848 100 0 952	1 3 0 0 4 03	369 326 321 277 1293 99 7	Rgt 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0	370 329 321 277 1297 100 0 876	601 765 730 678 2974
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Start Time Peak Hour Analys Peak Hour for En 4 00 PM 4 15 PM 4 30 PM 4 45 PM Total Volume % App Total PHF Cars PU, Vara % Cars PU, Vara	Left strom Core Inters 6 2 8 6 6 24 82 8 23 95 8	No Thru 34 00 P section 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Rgt PM - 06 0 Begins 3 1 1 0 5 17 2 5 100 0 0	0 PM et 04 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PM 11. 3 9 6 29 100 0 659 28 96 6	0 0 0 0 0	7 hru 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0	409 422 391 387 1609 97 6	8tboun Rgt 11 11 9 8 39 2 4	0 0 0 0 0 0	420 433 400 395 1648 100 0 952 1607 97.5	1 3 0 0 4 03	369 326 321 277 1293 99 7	Rgt 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0	370 329 321 277 1297 100 0 875 1273 98 1	801 765 730 678 2974 0 928 2908 97 8

												Printed	- Cars,	PU, Va												
					-7-18						-7-18				SF		ikatie jih	wy		Γ'	5	R 170/O	katle Hv	Ŋ		
				North						South							bound					West	bound			
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7:00		- 4	0	2	0	0	6	0	0	0	. 0	-0	0	0	267	- 1	0	0	268	1	345	0	0	0	346	620
7:15		- 1	0	1	0	0	2	0	0	0	0	0	0	0	295	- 1	0	0	298	-0	336	0	. 0	0	336	634
7:30		0	0	1	0	0	- 1	0	0	Û	0	0	0	0	295	0	1	0	298	0	310	0	- 0	0	310	607
7:45		1	0	1	0	0		0	0	0	0	Û	0	. 0	271	2	0	0	273	0	264	0	0	0	264	539
	otel	6	0	5	0	0		0.	0	0	0	Ð	0	0	1128	- 4	1	0	1133	1	1255	0	- 0	0	1256	2400
8 00 .		0	0	1	0	0	- 1	0	0	0	0	0	0	0	266	1	0	0	267	2	246	. 0	0	0	248	518
8.15		1	0	2	0	0	3	0	0	0	0	0	야	0	233	0	0	0	233	1	263	0	- 0	0	264	500
8 30		2	0	1	0	0	3	0	0	0	0	0	0	0	205	- 0	O-	0	205	1	273	0	0	0	274	482
8 45		1	0	3	0	Û	4	- 0	0	0	0	0	0	0	237	- 1	0	0	238	0	262	0	. 0	0	262	504
	otal	4	0	7	0	0	11	- 0	0	0	0	0	0	0	941	2	0	0	943	4	1044	0	- 0	0	104B	2002
""BREAK"																										
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4 30 1		3	0	2	0	0	5	0	0	0	0	0	이	0	391	1	Q	0	392	4	316	0	0	0	320	717
4 45		. 0	0	2	0	0	2	0	0	0	0	0	0	0	377	- 1	0	0	378	2	288	0	. 0	O-	290	670
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5 00 1		1	0	2	0	0	3	0	0	0	0	0	이	0	336	2	0	0	338	1	261	0	. 0	0	262	603
5.15		1	0	5	0	0	6	0	0	0	- 0	0	이	0	311	- 1	0	0	312	5	205	0	- 0	0	210	528
5 30		2	Q	1	-0	0	3	0	Q.	0	0	0	이	0	254	0	0	0	254	3	211	0	0	Û	214	471
5 45		0	0	4	- 0	0	4	0	0	0	- 0	0	0	0	186	0	0	0	186	_ 3	162	0	0	Û	165	355
To	otal	- 4	0	12	0	0	16	0	0	0	0	0	이	0	1087	3	_0	-0	1090	12	839	0	0	0	851	1957
	1					_	4-1																			
Grand To		20	0	38	0	0		0	0	0	0	0	이	0	4755	13	1	0	4769	24	4435	0	- 0	0	4459	9284
Approt		357	0.0	64 3	0.0	0.0		0.0	0.0	0.0	0.0	0.0	- 1	0.0	99 7	03	00	0.0	- 1	05	99 5	0.0	0.0	0.0	- 1	
Total		02	0.0	04	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	51.2	0.1	0.0	0.0	514	0.3	47.8	0.0	0.0	0.0	48 0	
Cars, PU, V		18	0	35	0		53	0	0	0	0		이	0	4533	13	1		4547	21	4261	-0	0		4282	8882
% Cars, PU, V		900	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			96.0	95 7
Heavy tru		. 2	0	. 1	0		3	0	0	0	0		이	0	222	0	0		222	3	174	- 0			177	402
%Heavy tru	ucks	100	0.0	26	0.0		54	0.0	0.0	0.0	0.0		00	0.0	4.7	00	0.0		47	12 5	39	0.0	0.0		4.0	43

Project ID: 22-150013-002 Location: SR S-7-18 & SR 170/Okatle Hwy City: Ridgeland

PEAK HOURS

Day: Thursday Date: 4/7/2022

AM																					
		ŞF	3-7-18	3			SŘ	8-7-18	3			SR 170	VOkatie	Hwy	- 1		SR 17	O/Okalk	e Hww		
			thboun					thbour	ıd			Ea	stboun	d	- 1			estbour		- 1	
Start Time					Adre Total	Left	Thru	Rgt	Uturn	PO TOTO	Left	Thru	Rgt	Uturn	Lpp Tow	Left	Thru	Rgt	Uturn	App Tele:	int Total
Peak Hour Analys																					
Peak Hour for Ent	bre Inters	ection	Begins :	nt 07.00	MA (
7.00 AM	4	0	2	0	6	O-	0	0	0	0	Û	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	296	0	336	0		336	634
7.30 AM	0	0	1	0	- 1	0	0	0	0	0	Q	295	0	1	296	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	264	539
Total Volume	6	0	5	0	11	0	0	0	O	0	0	1128	4	1	1133	1	1255	0		1258	2400
% App Total	54 5	0.0	45 5	0.0	100	00	0.0	0.0	0.0	0	0.0	996	04	0.1	100	01	99 9	0.0	0.0	100	
PHF					0 458					_					0 957					0 908	0.946
Cars, PU, Vans	. 5	0	5	0	10	D	0	0	0	0	0	1058	4	1	1061	0	1199	- 0			2270
% Cers. PU. Vans	83.3	0.0	100 0	0.0	90.9	0.0	0.0	0.0	0.0	0.0	0.0		100 0	100 0	936	0.0	95 5	0.0	0.0	95 5	946
Heavy trucks	. 1	0	0	0	. 1	0	0	0	0	0	0	72	0	0	72	1	56	0	0	57	130
Milleony Nucks	18 7	0.0	00	00	9 1	00	00	00	00	0.0	0.0	6.4	00	0.0	64	100 0	45	0.0	0.0	45	54
DM .																					
PM		8.6	2 5.7.18		_		80	8.7.1	1			SD 170	i Okasla	Libuna			ED 17	Marine and a	Librar		
PM			R S-7-18					S-7-18					/Okatie		\neg			O/Okatio		\neg	
Stan Time	Left	No	thboun	id	ion Toro	Left I	Sou	thbour	ıd	on Tobu	Left 1	Ea	s tboun	d ´	T	Luck I	W	estbour	nd ,		in Tarel
		No.	Rgt	Uturn	Apa Tera	Left	Sou	thbour		per Total	Left		s tboun		las Toly	Left	W	estbour	nd ,	App flots	int Total
Start Time Peak Hour Analys	is from 0	Thru I	Rot M - 06 0	uturn OPM		Left	Sou	thbour	ıd	po Tota	Left	Ea	s tboun	d ´	lpp Toly	Left	W	estbour	nd ,	App flots	int Total)
Start Time	is from 0	Thru I	Rot M - 06 0	uturn OPM		Left	Sou	thbour	ıd	po Total	Left	Ea	s tboun	d ´	lpp Toty	Left	W	estbour	nd ,	App liote	int Total
Start Time Peak Hour Analys	is from 0	Thru I	Rot M - 06 0	uturn OPM		Left D	Sou	thbour	ıd	oe total	Left 0	Ea	s tboun	Uturn [404	Left	W	estbour	nd ,		
Start Time Peak Hour Analys Peak Hour for Ent 4 00 PM 4 15 PM	is from 0 are Inters 1 2	Thru I	Rot Rot Begins (Uturn O PM at 04 00 0		148	Sou Thru	Rgt	Uturn [a			Thru	Rgt	d ´			Thru	Rgt	Uturn i	App Hote 361 333	769
Start Time Peak Hour Analys Peak Hour for Ent 4 00 PM 4 15 PM 4 30 PM	is from Q are Inters	Nor Thru I 4 00 P ection	Rgt Rgt Begins (Uturn O PM at 04 00	PM 4	0	Sou Thru	Rgt 0	Uturn a	ol	0	Thru 402	Rgt	Uturn [404	0	Thru 361	estbour Rgt 0	Uturn 0	361	769
Start Time Peak Hour Analys Peak Hour for Ent 4 00 PM 4 15 PM 4 30 PM 4 45 PM	is from 0 are Inters 1 2 3 0	Nor Thru 4 00 P action 0 0 0	Rot M - 06 0 Begins (Uturn	PM 4 7 5 2	0 0	Sou Thru	Rgt 0	Uturn a	0	0	402 429 391 377	Rgt	Uturn [404 429	0	7hru 361 332	Rgt 0 0	Uturn 0	361 333	769 769
Stan Time Peak Hour Analys Peak Hour for Ent 4 00 PM 4 15 PM 4 30 PM 4 45 PM Total Votume	is from 0 are Inters 1 2 3 0	Nor Thru 4 00 P ection 0 0 0	Rgt M - 06 0 Begins (Uturn	PM 4 7 5 2 18	0 0 0 0	0 0 0 0 0	Rgt 0	O O O O	0	0 0 0	402 429 391	Rgt 2 0 1 1 4	Uturn I	404 429 392	0 1 4	361 332 316	Rgt 0 0	Uturn 0 0 0	361 333 320	769 769 717
Stan Time Peak Hour Analys Peak Hour for Ent 4 00 PM 4 15 PM 4 30 PM 4 45 PM Total Votume % App Total	is from 0 are Inters 1 2 3 0	Nor Thru 4 00 P action 0 0 0	Rot M - 06 0 Begins (Uturn	PM 4 7 5 2 18 100	0 0	Sou Thru	Rot 0	Uturn a	0	0 0	402 429 391 377	Rgt 2 0 1 1	Uturn I	404 429 392 378 1603 100	0 1 4 2	361 332 316 288	Rgt 0 0 0	Uturn 0 0 0	361 333 320 290	769 769 717 570
Stan Time Peak Hour Analys Peak Hour for Ent 4 00 PM 4 15 PM 4 30 PM 4 30 PM 4 45 PM Total Votume % App Total PHF	1 2 3 0 6 33 3	Nor Thru 400 P action 0 0 0 0	Rot Rot M - 06 0 Begins (Uturn	PM 7 5 2 18 100 0 643	0 0 0 0	0 0 0 0 0	Rgt 0 0 0 0 0	0 0 0 0 0 0	0 0 0	0 0 0 0	402 429 391 377 1599 998	Rgt 2 0 1 1 4	Uturn I	404 429 392 378 1603 100 0 934	0 1 4 2 7	361 332 316 288 1297 99.5	Rgt 0 0 0 0	Uhurn 0 0 0 0	361 333 320 290 1304	769 769 717 670 2925
Start Time Peak Hour Analys Peak Hour for Ent 4 00 PM 4 15 PM 4 30 PM 4 45 PM Total Votume % App Total PHF Cars, PU, Vans	1 2 3 0 6 33 3	Nor Thru 4 00 P 4 00 P 6 0 0 0 0 0 0 0 0	Rot M - 06 0 Begins (Uturn	1 PM 7 5 2 18 100 0 643	0 0 0 0 0	0 0 0 0 0	Rgt 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0	402 429 391 377 1599 99.8	2 0 1 1 4 0 2	0 0 0 0 0 0	404 429 392 378 1603 100 0 934	0 1 4 2 7 05	361 332 316 288 1297 99 5	Rgt 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0	361 333 320 290 1304 100 0 903	769 769 717 670 2925 0 951 2860
Start Time Peak Hour Analys Peak Hour for Ent 4 00 PM 4 15 PM 4 30 PM Total Votume % App Total PHF Cars, PU, Vans % 2csr, PU, Vans	1 2 3 0 6 33 3	Nor Thru 4 00 P action 0 0 0 0 0 0	Rot M - 06 0 Begins (5 2 2 12 66 7	0 PM 8t 04 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PM 4 7 5 2 18 100 0 643 17 94 4	0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0	402 429 391 377 1599 99 8	2 0 1 1 4 0 2 4 100 0	0 0 0 0 0 0	404 429 392 378 1603 100 0 934 1564 97 6	0 1 4 2 7 05	361 332 316 288 1297 99.5	0 0 0 0 0 0 0	0 0 0 0 0 0	361 333 320 290 1304 100 0 903 1279 98 1	769 769 717 670 2925 0 951 2960 87 8
Start Time Peak Hour Analy Peak Hour for Ent 4 00 PM 4 15 PM 4 30 PM 4 45 PM Total Votume % App Total PHF Care, PU, Vane % Care, PU vane % Law, Pu Vane Heavy fucks	1 2 3 0 6 33 3 0 0 0 0 0 0 0 0 0 0 0	Nor Thru 4 00 P 4 cbsn 0 0 0 0 0 0 0 0 0 0	Rgt M - 06 0 Begins (3 5 2 2 2 56 7 11 91 7 5	0 PM et 04 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9 PM 4 7 5 2 18 100 0 643 17 94 4	0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0	402 429 391 377 1599 99 8	2 0 1 1 4 0 2 1 1 1 0 0 0 0 0	0 0 0 0 0 0	404 429 392 378 1603 100 0 934 1564 97 6	0 1 4 2 7 05 6 85 7	361 332 316 288 1297 99 5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	361 333 320 290 1304 100 0 903 1279 98 1	769 768 717 670 2925 0 951 2860 87 8
Start Time Peak Hour Analys Peak Hour for Ent 4 00 PM 4 15 PM 4 30 PM Total Votume % App Total PHF Cars, PU, Vans % 2csr, PU, Vans	1 2 3 0 6 33 3	Nor Thru 4 00 P action 0 0 0 0 0 0	Rot M - 06 0 Begins (5 2 2 12 66 7	0 PM 8t 04 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PM 4 7 5 2 18 100 0 643 17 94 4	0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0	402 429 391 377 1599 99 8	2 0 1 1 4 0 2 4 100 0	0 0 0 0 0 0	404 429 392 378 1603 100 0 934 1564 97 6	0 1 4 2 7 05	361 332 316 288 1297 99.5	0 0 0 0 0 0 0	0 0 0 0 0 0 0	361 333 320 290 1304 100 0 903 1279 98 1	769 769 717 670 2925 0 951 2960 87 8

Prepared by NDS/ATO

VOLUME

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

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

	DAILY TO	TALS			NB		SB		EB	6.881	WB							tal
			_	_	0	_	0		252		215			_				67
AM Period	NB S	В	EB 1		WB 0		10	TAL	PM Period 12:00	NB		SB	EB 7		WB 5		12	TAL
00:15			ō		ő		Ô		12:15				8		2	- 1	10	
00:30			0	9	0		0		12:30				5		4		9	20
00:45			0	_1	0		0	1	12:45 13:00				5	24	5	15	8 10	39
01:00			1		ŏ		1		13:15				4		6		10	
01:30			0	_	0		0	- 3	13:30				5		4		9	25
01:45 02:00			0	1	0		2	1	13:45 14:00	_			1	16	7	19	8	35
02:15			ō		1		1		14:15				1		4		5	
02:30			0		0	- 40	0	_	14:30 14:45				2	7	4	16	6 4	23
02:45			0	1	0	2	0	3	15:00				4	-/-	4	16	8	23
03:15			ō		ŏ		ō		15:15				4		0		4	105
03:30			0		0		0		15:30 15:45				8	20	2		10 9	31
03:45			0		0	_	0	_	16:00				10	20	6	11	16	31
04:15			0		1		1	100	16:15				5		3		8	4 10
04:30			0		0	,	0		16:30 16:45				6 13	34	4 5	18	10 18	52
04:45 05:00			0		3	1	3	1	17:00				5	34	3	10	8	52
05:15			0		0		0		17:15				8		6		14	
05:30			1	-	1	٠. ا	2	10	17:30 17:45				6 4	22	2 5	16	8	39
05:45 06:00			0	3	3	7	3	10	18:00				5	23	3	10	8	39
06:15			1		7		8		18:15				7		2		9	
06:30			3	2	5	10	8	20	18:30 18:45				6 6	24	1 5	11	7 11	35
06:45 07:00	-		2	6	7	19	9	25	19:00	_			4	24	2	-11	6	33
07:15			3		4		7		19:15				6		2		8	
07:30			6	450	4	20	10	25	19:30 19:45				6 1	17	2	8	8	25
07:45 08:00	-		1	15	6	20	7	35	20:00	0			7	17	0	0	7	25
08:15			0		5		5		20:15				3		0		3	
08:30			2	2	3	16	5	10	20:30 20:45				2	15	0		2	15
08:45			0	3	2	16	2	19	21:00				0	13	2		2	15
09:15			2		0		2		21:15				2		0		2	
09:30			2		2	9	5	15	21:30 21:45				4 0	6	3	6	5	12
10:00		- 107	4	6	0	9	4	15	22:00				4		2		6	12
10:15			2		2		4		22:15				1		2		3	
10:30			1 6	12	4	7	5	20	22:30 22:45				0 1	6	0	4	0	10
10:45 11:00			1	_13	3	,	4	20	23:00	_			2	- 0	1	-	3	10
11:15			1		2		3		23:15				0		1		1	
11:30			4	8	3	8	7	16	23:30 23:45	100			0	3	0	2	0	5
11:45 TOTALS				57		89		146	TOTALS					195		126		321
SPLIT %			STATE	39.0%		61.0%		31.3%	SPLIT %				0, 1	60.7%		39.3%		68.7%
					NB		SB		EB		WB						T	otal
	DAILY TO	TALS			0		0		252		215							67
AM Peak Hour				11:45		06:15		07:00	PM Peak Hour					16:00		13:15		16:00
AM Pk Volume				22		23		35	PM Pk Volume					34		21		52
Pk Hr Factor				0.688		0.821		0.875	Pk Hr Factor					0.654		0.750	111	0.722
7 - 9 Volume	0	0 :		18		36		54	4 - 6 Volume		0		0	57		34		91
7 - 9 Peak Hour				07:00		07:00		07:00	4 - 6 Peak Hour					16.00		16.00		16:00
Moluma		0.000		15		20		35 0.875	4 - 6 Pk				000	34 0.654		18 0.750		52 0,722
Pk Hr Factor	0.000	0.000		0.625		0.714		0.875	Pk Hr Factor		0.000	- 9	INA)	0.634		0.750		U.122

Appendix B – Trip Generation

	8	Bailey Park Table 2 - T	•								
			52.0	Daily		Al	Peak Ho	ur	PN	l Peak Ho	ur
Land Use	Inte	ensity	Total	In	Out	Total	ln	Out	Total	In	Out
820 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						1.2		- X2	1		
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									
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 (1TE)	AM	<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		301	2,576	1,288	1,288	184	61	103	213	116	97

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

Table 7-A: Conversion of Vehicle-Trip Ends to Person-Trip Ends											
Land Use	Tab	le 7-A (D): Enter	ing Trips	П	Table 7-A (O): Exiting Trips						
Land Ose	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	38	38	1 ſ	1.00	23	23				
Restaurant	1.00	0	0	1 [1.00	0	0				
Cinema/Entertainment	1.00	0	0	1 [1.00	0	0				
Residential	1.00	25	25	1 [1.00	82	82				
Hotel	1.00	0	0	1 [1.00	0	0				

	Table 8-A	(O): Internal Pe	erson-Trip Origin-	Destination Matrix (Compute	ed at Origin)										
Origin (From)		Destination (To)													
Origin (From)	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel									
Office	THE PERMIT	0 =	0	0	0	0									
Retail	7	MARKET STREET	3	0	3	0									
Restaurant	0	0	THE RESERVE OF	0	0	0									
Cinema/Entertainment	0	0	0		0	0									
Residential	2	1	16	0	SQLAKO Demo PERM	0									
Hotel	0	0	0	0	0										

Origin (From)	Destination (To)													
Ongin (Florii)	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel								
Office		12	0	0	0	0								
Retail	0		0	0	1	0								
Restaurant	0	3	the William Co.	0	1	0								
Cinema/Entertainment	0	0	0	gentlem at the policy	0	0								
Residential	0	6	0	0	Ellestic Transparations	0								
Hote!	0	2	0	0	0	THE RESERVE THE PARTY OF THE PA								

	Та	ble 9-A (D): Int	ernal and External	l Trips	Summary (Enterin	g Trips)						
Destination Land Use	1	Person-Trip Esti	mates	П	External Trips by Mode*							
Destination Land Ose	Internal	External	Total] [Vehicles ¹	Transit ²	Non-Motorized ²					
Office	0	0	0	1 [0	0	0					
Retail	1	37	38	1 🗆	37	0	0					
Restaurant	0	0	0	1 Г	0	0	0					
Cinema/Entertainment	0	0	0	1 Г	0	0	0					
Residential	1	24	25	1	24	0	0					
Hotel	0	0	0	1 [0	0	0					
All Other Land Uses ³	0	0	0		0	0	0					

	T	able 9-A (O): In	ternal and Extern	al T	rips Summary (Exiting	Trips)						
Origin Land Use	1	Person-Trip Esti	mates	Г	External Trips by Mode*							
Origin Land Ose	Internal	External	Total]	Vehicles Vehicles	Transit ²	Non-Motorized					
Office	0	0	0		0	0	0					
Retail	1	22	23	1	22	0	0					
Restaurant	0	. 0	0]	. 0	0	0					
Cinema/Entertainment	0	0	0	1	0	0	0					
Residential	1	81	82]	81	0	0					
Hotel	0	0	0	1	0	0	0					
All Other Land Uses ³	0	0	0		0	0	0					

Vehicle-trips computed using the mode split and vehicle occupancy values provided in Table 2-A

³Person-Trips

³Total 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

	Ta	ble 7-P: Conver	sion of Vehicle-Tr	ip E	nds to Person-Trip En	ds	
Land Use	Table	7-P (D): Entering	Trips	П		Table 7-P (O): Exiting Trips	
Land Ose	Veh. Occ.	Vehicle-Trips	Person-Trips*	H	Veh. Occ.	Vehide-Trips	Person-Trips*
Office	1.00	0	0		1.00	0	0
Retail	1.00	120	120		1.00	129	129
Restaurant	1.00	0	0		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	li	1.00	0	0

	Table 8-P (O): Internal Pers	on-Trip Origin-De	stination Matrix (Compute	d at Origin)				
Osisia (Espen)				Destination (To)					
Origin (From)	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel			
Office 0 0 0 0 0									
Retail 3 10 37 5 34									
Restaurant	0	0		0	0	00			
Cinema/Entertainment	0	0	0		0	0			
Residential 2 19 10 0 1									
Hotel	0	0	0	0	0	THE REAL PROPERTY.			

· · · · · · · · · · · · · · · · · · ·	Table 8-P (D)	: Internal Persor	-Trip Origin-Desti	nation Matrix (Computed a	t Destination)	
Origin (Franc)	1	•		Destination (To)		
Origin (From)	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel
Office	Codemics on	10	0	0	3	0
Retail	0	TRAJECTICAL	0	0	36	0
Restaurant	0	60	Service of Owner State	0	13	0
Cinema/Entertainment	0	5	0		3	0
Residential	0	12	0	0	PERSONAL PROPERTY.	. 0
Hotel	0	2	0	0	0	PERSONAL PROPERTY AND PROPERTY

	Tal	ole 9-P (D): Inten	nal and External T	rips	Summary (Entering Tr	ips)	
Destination Land Use	Po	erson-Trip Estima	ites	П		External Trips by Mode*	
Destination Land Use	Internal	External	Total] [Vehicles ¹	Transit ²	Non-Motorized ²
Office	0	0	0] [0	0	0
Retail	12	108	120] [108	0	0
Restaurant	0	0	0] [0	0	0
Cinema/Entertainment	0	0	0] [0	0	0
Residential	34	45	79] [45	0	0
Hotel	0 0 0		0] [0	0	0
All Other Land Uses ³	0	0	0	Ш	0	0	0

	Tal	ble 9-P (O): Inter	nal and External 1	rip	s Summary (Exiting Tri	ps)	
Origin Land Use	Pe	erson-Trip Estima	ites	П		External Trips by Mode*	
Origin Land Ose	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

¹Vehicle-trips computed using the mode split and vehicle occupancy values provided in Table 2-P

²Person-Trips

³Total 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 Eastboun	d	Γ,	SC 170 Nestboun	А		Bailey Rd \			- iouthbour	nd
Desc	ription	Left	Through	_	Left	Through	_	Left	Through	_	Left	Through	
	· · · · · · · · · · · · · · · · · · ·	64	40.7550	560	1.002			1839-1	524	,			
2022	Raw Traffic Count	0	1,097	18	3	1,257	0	30	0	9			
	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	1,097	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%
	Background Growth	0	238	0	0	272	0	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
	-												
	% 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			
		Eastboun	1		Nestboun	<u>d</u>	1	lorthboun	<u>d</u>	<u>s</u>	outhbour	<u>1d</u>
Description	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right
							-5.5					
2022 Raw Traffic Count	0	1,609	39	4	1,293	0	24	0	5	Į		
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	1,609	39	4	1,293	0	24	0	5	0	0	0
							0.000	63				
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	0	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

	<u>:</u>		SC 170 Eastboun	<u>. </u>	,	SC 170 Nestboun	<u>d</u>		Bailey Rd Iorthboun		s	- outhbour	ıd
Desc	ription	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right
2022	Raw Traffic Count	0	1,128	4		1.255	0	6	0	5	0	0	
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	0.074	0.070	0.070	0.076	0.076	0.070	0.078	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
	VA												
	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
	% 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
i	% 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			SC 170		Old	Bailey Rd	East		-	
			Eastbound	<u>d</u>	1	Vestboun	<u>d</u>	π. V	orthboun	d	s	outhbour	ıd
Desc	ription	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right
2022	Raw Traffic Count	0	1,599	4	7	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%
	Background Growth	0	346	0	0	281	0	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	۱ ،	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

			SC 170 Eastboun	d	, v	SC 170 Vestboun	d	l .	Driveway		s	- outhbour	nd
Desc	ription	Left	Through	Right	Left	Through		Left	Through		Left	Through	Right
2022	Raw Traffic Count	1	1,106			1,260							
	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	1,106	0	0	1,260	0	0	0	0	0	0	0
	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	0	273	0	0	0	0	0	0	0
		-	240		ا ٽ	213					ا	- 0	
	Existing Phase Remaining Traffic		111										
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%
	Entering Site Traffic	٥	0	37	18	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	52	0	21	0	0	0
	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	1		
	·		Eastbound	1		<u>Nestboun</u>	<u>d</u>	4	lorthboun	<u>d</u>	<u>s</u>	outhbour	<u>1d</u>
Desci	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
	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	000	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	000	0	0	0	0	0	49	0	19	""	0	0
	Total Site Trips	ō	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

		1	old Bailey F Eastbound		ı	ld Bailey F Vestboun		1	- lorthboun	<u>d</u>	Site Driveway #2 Southbound		
Desc	ription	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right
2022	Raw Traffic Count		18			36							
	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	0.070	0
2022	Peak Hour Volume	0	18	0	0	36	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	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%
	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	₹d	C	old Bailey F	₹d				Site	e Driveway	/#2
		Eastbound	<u>d</u>	7	Westboun	<u>d</u>	N	lorthboun	d	s	outhbour	ıd
Description	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right
2022 Raw Traffic Count		57			34							
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	Ð	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	0	0	0	0	0	0	0	0	0	0	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
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

	→	7	1	+	4	~	
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR	7000
Lane Configurations	44	7	7	^	7	7	
Traffic Volume (vph)	1097	18	3	1257	30	9	450
Future Volume (vph)	1097	18	3	1257	30	9	Method No.
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	T335
Storage Length (ft)		275	250		175	0	
Storage Lanes		1	1		1	1	7 11 1200
Taper Length (ft)			100		100		
Lane Util, Factor	0.95	1.00	1.00	0.95	1.00	1.00	
Frt		0.850	(INTO			0.850	
FIt Protected			0.950		0.950		
Satd. Flow (prot)	3374	1524	1081	3438	1752	1455	
Flt Permitted		1 10 "	0.950		0.950	AL PURSON	1
Satd. Flow (perm)	3374	1524	1081	3438	1752	1455	
Link Speed (mph)	55	I CARL		55	30		ATT OF
Link Distance (ft)	1485			2650	1171		
Travel Time (s)	18.4	- 1		32.9	26.6	2000	
Peak Hour Factor	0.94	0.94	0.90	0.90	0.61	0.61	
Heavy Vehicles (%)	7%	6%	67%	5%	3%	11%	00
Adj. Flow (vph)	1167	19	3	1397	49	15	
Shared Lane Traffic (%)		This is	0 N K		100		
Lane Group Flow (vph)	1167	19	3	1397	49	15	231-12
Enter Blocked Intersection	No	No	No	No	No	No	THE THE
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		TO THE
Two way Left Turn Lane	Yes		T0=	Yes			
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	100
Turning Speed (mph)		9	15		15	9	
Sign Control	Free			Free	Stop		
Intersection Summary		324	WI E	(1° 1 xx m)		-1-401	
	ther						
Control Type: Unsignalized	MIGI	-			- 200		
Intersection Capacity Utilizati	ion 44.7%		TO DE	IC	U Level	of Service /	A
Analysis Period (min) 15							

Intersection	E V	8 1	98			tij in i	
Int Delay, s/veh	0.6						
-		EDD	MIDI	MIDT	MOH	MDD	ĺ
Movement	EBT	EBR	WBL	WBT	NBL	NBR	
Lane Configurations	4007	10	ሻ	^	20		
	1097	18	3	1257	30	9	
	1097	18	3	1257	30	9	
Conflicting Peds, #/hr	0	0	0	0	0	0	
	Free	Free	Free	Free	Stop	Stop	,
RT Channelized	-		-	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	
	1167	19	3	1397	49	15	
2							
MajorMinos	aia-4	ī	daiora	1	dinord		
	ajor1		Major2		dinor1	504	
Conflicting Flow All	0	0			1872	584	
Stage 1	-	-	•	•	1167	-	
Stage 2	-		-		705	-	
Critical Hdwy	7		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	7.		323	-	63	433	
Stage 1	-	-	-	-	256	-	
Stage 2	Tre-	-	-		448	-	
Platoon blocked, %	-						
Mov Cap-1 Maneuver			323		62	433	
Mov Cap-2 Maneuver	-	_	-	-	216		
Stage 1			-		256	-	
Stage 2	_	7 .		-	444		
Ologo 2	- 3	-	45.5	1000			
			MID		MB		
Approach	EB		WB		NB		
HCM Control Delay, s	0	II W	0		23.5		
HCM LOS					С		
Minor Lane/Major Mymt	1	NBLn11	VBI n2	EBT	EBR	WBL	
Capacity (veh/h)		216	433	- LD1	-	323	
HCM Lane V/C Ratio		0.228				0.01	
				_		16.3	
HCM Control Delay (s)		26.5	13.6	-			
HCM Lane LOS		D	B	-	•	C	
HCM 95th %tile Q(veh)		0.8	0.1	•	•	0	

	-	>	1	←	4	~	
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR	
Lane Configurations	†	0m0	ň	44	7	7	
Traffic Volume (vph)	1128	4	1	1255	6	5	
Future Volume (vph)	1128	4	11	1255	6	5	
deal Flow (vphpl)	1900	1900	1900	1900	1900	1900	
Storage Length (ft)		0	275		0	200	
Storage Lanes		0	1		1	1	
Taper Length (ft)		No. of the	100		100		
ane Util. Factor	0.95	0.95	1.00	0.95	1.00	1.00	
Frt	0.999					0.850	10 W
Fit Protected	100	4 6	0.950	0 3	0.950		
Satd. Flow (prot)	3403	0	1444	3438	1543	1615	
FIt Permitted	4		0.950	=1 ₀ 7 8	0.950	11 E T	The same of the sa
Satd. Flow (perm)	3403	0	1444	3438	1543	1615	
ink Speed (mph)	55	- Market		55	30	-	
ink Distance (ft)	2727			1381	1408	1000	
Travel Time (s)	33.8	78.8		17.1	32.0		
Peak Hour Factor	0.96	0.96	0.91	0.91	0.46	0.46	
leavy Vehicles (%)	6%	0%	25%	5%	17%	0%	
Adj. Flow (vph)	1175	4	1	1379	13	11	
Shared Lane Traffic (%)		CARLO.			TO ASSOCIATE		
Lane Group Flow (vph)	1179	0	1	1379	13	11	
Inter Blocked Intersection	No	No	No	No	No	No	
ane Alignment	Left	Right	Left	Left	Left	Right	
Median Width(ft)	12		3.7	12	12	1000	
ink Offset(ft)	0			0	0		30
Crosswalk Width(ft)	16	77.112	10.	16	16		
Two way Left Turn Lane	Yes			Yes			
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	Name and Advanced to the American
Furning Speed (mph)		9	15		15	9	7
Sign Control	Free		18.4	Free	Stop	EX BAI	
ntersection Summary	(FORTING	18/E	EX E		118 11.		CANADA TANDA AND AND AND AND AND AND AND AND AND
	Other			1			
Control Type: Unsignalized							208
ntersection Capacity Utilizat	ion 44.7%			IC	U Level	of Service	A
Analysis Period (min) 15				-			THE STATE OF

resta		-				150 BUT	
ntersection			Ų,⊎c+				
Int Delay, s/veh	0.2						
			(0) = 0	101			
Movement	EBT	EBR	WBL	WBT	NBL	NBR	
Lane Configurations	1		4	44	٦	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	0	
Sign Control	Free	Free	Free	Free	Stop	Stop	
RT Channelized		1707-011		None		None	
Storage Length			275	-	0	200	
Veh in Median Storag	e.# 0		-	0	2		
Grade, %	0	-	-	0	0	-	
Peak Hour Factor	96	96	91	91	46	46	ľ
Heavy Vehicles, %	6	0	25	5	17	0	
	1175	4	1	1379	13	11	
Mvmt Flow	11/5	4	- 1	13/9	10	- 11	
Major/Minor	Major1	ı	Major2	A	Minor1		
Conflicting Flow All	0	0	1179	0	1869	590	
Stage 1		Ĭ			1177	-	
Stage 2	-		_		692	-	
			4.6		7.14	6.9	
Critical Hdwy			4.0				
Critical Hdwy Stg 1		-	-	•	6.14	-	
Critical Hdwy Stg 2			0.45			-	
Follow-up Hdwy	-	-	2.45	-	0.0.	3.3	
Pot Cap-1 Maneuver	-	-	474	-		456	
Stage 1	-	-	T.66	-	226	-	
Stage 2	11 (*				420		
Platoon blocked, %				-			
Mov Cap-1 Maneuver			474		54	456	
Mov Cap-2 Maneuver			-	-	193		
Stage 1		-			226		
Stage 2				-	419		
Graye Z	0-1102				713	- 53	
Approach	EB	THE S	WB		NB	Equa_	
HCM Control Delay, s		110	0	Annachan	19.6		
HCM LOS					C		
110111 200							
Minor Lane/Major Mvi	mt i	NBLn1	NBLn2	EBT	EBR	WBL	Ì
Capacity (veh/h)		193				474	
HCM Lane V/C Ratio			0.024			0.002	
HCM Control Delay (s	1	25		-			
HCM Lane LOS	1	D	В				
	hì	0.2	0.1		- 1000	-	
HCM 95th %tile Q(ve)	1	0.2	U, I			U	

	-	7	1	←	4	-
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	44	1	7	44	7	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
Storage Length (ft)		275	250		175	0
Storage Lanes	4	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	العمالا		0.950		0.950	
Satd. Flow (prot)	3539	1538	1805	3539	1736	1615
Flt Permitted			0.950	1 6	0.950	20.00
Satd. Flow (perm)	3539	1538	1805	3539	1736	1615
Link Speed (mph)	55	m iii 22		55	30	Even in
Link Distance (ft)	1485		188	2650	1171	
Travel Time (s)	18.4			32.9	26.6	
Peak Hour Factor	0.95	0.95	0.88	0.88	0.66	0.66
Heavy Vehicles (%)	2%	5%	0%	2%	4%	0%
Adj. Flow (vph)	1694	41	5	1469	36	8
Shared Lane Traffic (%)			- 00 Tr		and the same	
Lane Group Flow (vph)	1694	41	_ 5	1469	36	8
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(ft)	12	g	edings.	12	12	2
Link Offset(ft)	0			0	0	
Crosswalk Width(ft)	16			16	16	- 117
Two way Left Turn Lane	Yes			Yes	1.8	II.
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	
					4.05	
Intersection Summary					NO L	
	ther			, v , i , j		
Control Type: Unsignalized						
Intersection Capacity Utilizati	on 54.5%		السيار	IC.	U Level	of Service A
Analysis Period (min) 15						

							5.5	·-	
Movement	ntersection	F 15		H2,			lines:		
Lane Configurations A	Int Delay, s/veh	0.6						233 271	
Lane Configurations	Movement	EBT	EBR	WBL	WBT	NBL	NBR	The second second second	
Traffic Vol. veh/h 1609 39 4 1293 24 5 Conflicting Peds, #hr 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		个 个	7	1	44	7	7	977	593
Future Vol, veh/h 1609 39 4 1293 24 5 Conflicting Peds #hr Vol					1293	24	5		
Conflicting Peds, #/hr 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			39	4		24	5		
Sign Control Free Free Free Free Free Free Stop Stop RT Channelized None None Storage Length 275 250 - 175 0			0	0		0	0		
RT Channelized		Free	Free	Free	Free	Stop	Stop		
Storage Length		- 1	None		None		None		
Veh in Median Storage, # 0 0 2 Grade, % 0 0 0 Poeak Hour Factor 95 95 88 88 86 66 66 Heavy Vehicles, % 2 5 0 2 4 0 Mymt Flow 1694 41 5 1469 36 8 Minor1 Conflicting Flow All 0 0 1735 0 2439 847 Stage 1 1694 - Stage 2 745 - Cirtical Hdwy Stg 1 5.88 - Cirtical Hdwy Stg 2 1694 - Stage 1 1311 - Stage 1 368 25 309 Mov Cap-1 Maneuver 368 25 309 Mov Cap-2 Mov		_	275	250	()	175	0		
Grade, % 0 0 0 0 - Peak Hour Factor 95 95 88 88 66 66 Heavy Vehicles, % 2 5 0 2 4 0 Mvmt Flow 1694 41 5 1469 36 8 Major/Minor Major/Minor/Minor Major/Minor/Minor Major/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Minor/Mi		e.# 0	-	-	0	2	-		
Peak Hour Factor 95 95 88 88 66 66 Heary Vehicles, % 2 5 0 2 4 0 Minor Morth Flow 1694 41 5 1469 36 8 Major I Major I Major I Major I Minor I Major I Minor I Stage I I Minor I Stage I I Minor I Stage I I Minor I Major I Minor I Stage I I Minor I Minor I Stage I I Minor			-	-	0		-		
Heavy Vehicles, % 2 5 0 2 4 0 Mymit Flow 1694 41 5 1469 36 8 Major/Minor Major1 Major2 Minor1 Conflicting Flow All 0 0 1735 0 2439 847 Stage 1		95	95	88	88	66	66		
Majort Majort Majort Majort Majort Majort Majort		2	5	0	2	4	0	1.01%	
Major/Minor Major Major Major Minor Conflicting Flow All 0 0 1735 0 2439 847 Stage 1 1694 - Stage 2 745 - Critical Hdwy 4.1 - 6.88 6.9 Critical Hdwy Stg 1 5.88 - 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 - 36825 309 Stage 1 131 - Stage 2 425 - Platon blocked, %		1694	41	5	1469	36	8	The state of the s	
Conflicting Flow All 0 0 1735 0 2439 847 Stage 1 1694 Stage 2 745									
Conflicting Flow All 0 0 1735 0 2439 847 Stage 1 1694 Stage 2 745	5.0 D.41					E		and the second second	
Stage 1		_							
Stage 2		0	0	1735	0		847	W-2-17	
Critical Hdwy - 4.1 - 6.88 6.9 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 - 368 - 25 309 Stage 1 - - 425 - Platon blocked, % - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -			· .		-		-		
Critical Howy Stg 1 5.88 - Critical Howy Stg 2 5.88 - Follow-up Howy - 2.2 - 3.54 - 3.3 Pot Cap-1 Maneuver - 368 25 - 309 Stage 1 131 - Stage 2 425 - Platoon blocked, % Mov Cap-1 Maneuver - 368 25 - 309 Mov Cap-1 Maneuver - 368 25 - 309 Mov Cap-2 Maneuver - 368 25 - 309 Mov Cap-2 Maneuver 119 - Stage 1 131 - Stage 2 419 - Approach EB WB NB HCM Control Delay, s 0 0 42.6 HCM LOS E Minor Lane/Major Mymt NBLn1 NBLn2 EBT EBR WBL WBT Capacity (veh/h) 119 309 - 368 - HCM Lane V/C Ratio 0.306 0.025 - 0.012 - HCM Lane V/C Ratio 0.306 0.025 - 0.012 - HCM Lane LOS E C - B - HCM Lane LOS E C - B - HCM Los E C - B - HCM Stirle Q(veh) 1.2 0.1 - 0 -		-	-		_				
Critical Hdwy Sig 2 - - 5.88 - Follow-up Hdwy - 2.2 3.54 3.3 Pot Cap-1 Maneuver - 368 - 25 309 Stage 1 - - 131 - Stage 2 - - 425 - Platoon blocked, % - - - - Mov Cap-1 Maneuver - 368 - 25 309 Mov Cap-2 Maneuver - - 119 - Stage 1 - - 131 - Stage 2 - - 419 - Approach EB WB NB HCM Control Delay, s 0 0 42.6 HCM LOS E Minor Lane/Maior Mvmt NBLn1 NBLn2 EBT EBR WBL WBT Capacity (veh/h) 119 309 - 368 - HCM Lane V/C Ratio 0.306 0.025 - 0.012 - HCM Control Delay (s) 48 16.9 - 14.9 - HCM Lane LOS - E C - B - HCM Lane LOS - E C - B - HCM Sth %tile Q(veh) 1.2 0.1 - 0 - Notes		-		4.1	-		6.9		
Follow-up Hdwy - 2.2 - 3.54 3.3 Pot Cap-1 Maneuver - 368 - 25 309 Stage 1 131 - Stage 2 425 - Platoon blocked, 6 Mov Cap-1 Maneuver - 368 - 25 309 Mov Cap-2 Maneuver - 368 - 25 309 Mov Cap-2 Maneuver 119 - Stage 1 131 - Stage 2 419 - Approach EB WB NB HCM Control Delay, s 0 0 42.6 HCM LOS E Minor Lane/Major Mvmt NBLn1 NBLn2 EBT EBR WBL WBT Capacity (veh/h) 119 309 - 368 - HCM Lane V/C Ratio 0.306 0.025 - 0.012 - HCM Control Delay (s) 48 16.9 - 14.9 - HCM Lane LOS E C - B - HCM Lane LOS E C - B - HCM Stage 1		-	-	•	-		-		
Pot Cap-1 Maneuver - 368 - 25 309 Stage 1 131 - Stage 2 425 - Platon blocked, % Mov Cap-1 Maneuver - 368 - 25 309 Mov Cap-2 Maneuver - 368 - 25 309 Mov Cap-2 Maneuver - 119 - Stage 1 131 - Stage 2 419 - Approach EB WB NB HCM Control Delay, s 0 0 42.6 HCM LOS E Minor Lane/Major Mymt NBLn1 NBLn2 EBT EBR WBL WBT Capacity (veh/h) 119 309 - 368 - HCM Lane V/C Ratio 0.306 0.025 - 0.012 - HCM Control Delay (s) 48 16.9 - 14.9 - HCM Lane LOS E C - B - HCM Lane LOS E C - B - Notes	Critical Hdwy Stg 2	-	- 1	كالمراجع والمراجعة	-			- 1 2 3 No. 10	
Stage 1	Follow-up Hdwy	-	-		-				
Stage 2	Pot Cap-1 Maneuver	// -		368	-		309		
Platoon blocked, %	Stage 1	-	-	-	-	131	-		
Mov Cap-1 Maneuver - - 368 - ~ 25 309 Mov Cap-2 Maneuver - - - 119 - Stage 1 - - - 131 - Stage 2 - - - 419 - Approach E Minor Lone/Mojor Mont NBLn1 NBLn2 EBT EBR WBL WBT Capacity (veh/h) 119 309 - - 368 - - Minor Lane/Major Mont Capacity (veh/h) 119 309 - - 368 - - HCM Lane V/C Ratio 0.306 0.025 - - 0.012 - - HCM Control Delay (s) 48 16.9 - - 14.9 - - HCM Lane LOS E C - B - HCM 95th %tile Q(veh) 1.2 0.1 - 0 - - - - Notes - - 0 - - -	Stage 2		-	-	-	425	-		
Mov Cap-2 Maneuver	Platoon blocked, %	-	-		-				
Stage 1	Mov Cap-1 Maneuver		-	368	-	~ 25	309		
Stage 1	Mov Cap-2 Maneuver				-	119			
Approach EB WB NB HCM Control Delay, s 0 0 42.6 HCM LOS E Minor Lane/Major Mvmt NBLn1 NBLn2 EBT EBR WBL WBT Capacity (veh/h) 119 309 - 368 - HCM Lane V/C Ratio 0.306 0.025 - 0.012 - HCM Control Delay (s) 48 16.9 - 14.9 - HCM Lane LOS E C - B - HCM 95th %tile Q(veh) 1.2 0.1 - 0 -			-			131			
Approach EB WB NB HCM Control Delay, s 0 0 42.6 HCM LOS E Minor Lane/Major Mvmt NBLn1 NBLn2 EBT EBR WBL WBT Capacity (veh/h) 119 309 - 368 - HCM Lane V/C Ratio 0.306 0.025 - 0.012 - HCM Control Delay (s) 48 16.9 - 14.9 - HCM Lane LOS E C - B - HCM 95th %tile Q(veh) 1.2 0.1 - 0 - Notes	Stage 2	+	-	-	_	419	-		
HCM Control Delay, s 0 0 42.6 HCM LOS E Minor Lane/Major Mvmt NBLn1 NBLn2 EBT EBR WBL WBT Capacity (veh/h) 119 309 - 368 - HCM Lane V/C Ratio 0.306 0.025 - 0.012 - HCM Control Delay (s) 48 16.9 - 14.9 - HCM Lane LOS E C - B - HCM 95th %tile Q(veh) 1.2 0.1 - 0 -		SERVICE OF STREET							
HCM Control Delay, s 0 0 42.6 HCM LOS E Minor Lane/Major Mvmt NBLn1 NBLn2 EBT EBR WBL WBT Capacity (veh/h) 119 309 - 368 - HCM Lane V/C Ratio 0.306 0.025 - 0.012 - HCM Control Delay (s) 48 16.9 - 14.9 - HCM Lane LOS E C - B - HCM 95th %tile Q(veh) 1.2 0.1 - 0 -	Anaroach	CD		MD		NID	=		
Minor Lane/Major Mvmt NBLn1 NBLn2 EBT EBR WBL WBT Capacity (veh/h) 119 309 - 368 - HCM Lane V/C Ratio 0.306 0.025 - - 0.012 - HCM Control Delay (s) 48 16.9 - 14.9 - HCM Lane LOS E C - B - HCM 95th %tile Q(veh) 1.2 0.1 - - 0 -					_				
Minor Lane/Major Mvmt NBLn1 NBLn2 EBT EBR WBL Capacity (veh/h) 119 309 - - 368 - HCM Lane V/C Ratio 0.306 0.025 - - 0.012 - HCM Control Delay (s) 48 16.9 - - 14.9 - HCM Lane LOS E C - B - HCM 95th %tile Q(veh) 1.2 0.1 - - 0 -		0		U					
Capacity (veh/h) 119 309 - - 368 - HCM Lane V/C Ratio 0.306 0.025 - - 0.012 - HCM Control Delay (s) 48 16.9 - - 14.9 - HCM Lane LOS E C - B - HCM 95th %tile Q(veh) 1.2 0.1 - - 0 - Notes	HCM LOS					E			
Capacity (veh/h) 119 309 - - 368 - HCM Lane V/C Ratio 0.306 0.025 - - 0.012 - HCM Control Delay (s) 48 16.9 - - 14.9 - HCM Lane LOS E C - B - HCM 95th %tile Q(veh) 1.2 0.1 - - 0 - Notes									
Capacity (veh/h) 119 309 - - 368 - HCM Lane V/C Ratio 0.306 0.025 - - 0.012 - HCM Control Delay (s) 48 16.9 - - 14.9 - HCM Lane LOS E C - B - HCM 95th %tile Q(veh) 1.2 0.1 - - 0 - Notes	Minor Lane/Major Myn	nt i	NBLn1	NBLn2	EBT	EBR	WBL	WBT	
HCM Lane V/C Ratio 0.306 0.025 0.012 - HCM Control Delay (s) 48 16.9 14.9 - HCM Lane LOS E C B - HCM 95th %tile Q(veh) 1.2 0.1 0 - Notes			119	309	-		368		
HCM Control Delay (s) 48 16.9 14.9 - HCM Lane LOS E C B - HCM 95th %tile Q(veh) 1.2 0.1 0 -								The state of the s	
HCM Lane LOS E C B - HCM 95th %tile Q(veh) 1.2 0.1 0 - Notes		1					The second second second second		
HCM 95th %tile Q(veh) 1.2 0.1 0 - Notes									
Notes		1)							
		4	7.16	Viil		10.00	- š		
►: Volume exceeds capacity \$: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon				Hán	THE PARTY				
		pacity	\$: D	elay ex	ceeds 3	100s	+: Con	nputation Not Defined	*: All major volume in platoon

	-	>	1	-	4	-
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	† 1>		*	44	7	1
Traffic Volume (vph)	1599	4	7	1297	6	12
Future Volume (vph)	1599	4	7	1297	6	12
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (ft)		0	275		0	200
Storage Lanes		0	1	3471	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	7 10		0.950		0.950	
Satd. Flow (prot)	3539	0	1583	3539	1805	1495
FIt Permitted	1516		0.950	E Walter	0.950	111 112
Satd. Flow (perm)	3539	0	1583	3539	1805	1495
Link Speed (mph)	55			55	30	Division of
Link Distance (ft)	2727		Viole	1381	1408	-
Travel Time (s)	33.8	-	-	17.1	32.0	- W. H. H.
Peak Hour Factor	0.93	0.93	0.90	0.90	0.64	0.64
Heavy Vehicles (%)	2%	0%	14%	2%	0%	8%
Adj. Flow (vph)	1719	4	8	1441	9	19
Shared Lane Traffic (%)				Lancia I		opportunities
Lane Group Flow (vph)	1723	0	8	1441	9	19
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	7		16	16	8 1 1 1
Two way Left Turn Lane	Yes	1112110		Yes		
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)		9	15		15	9
Gign Control	Free	Total Park		Free	Stop	
Intersection Summary		77.10	niller file			No.
	Other	100000		-		
Control Type: Unsignalized	76161		10000			1,500
Intersection Capacity Utilizat	ion 54 20/		(8)	1/	III mel	of Service
	ion 54.5%			IC	O Feati	or Service /
Analysis Period (min) 15						

-1 30		0.55		•		020	
Intersection	-		ELL	Lang WES			¥4
Int Delay, s/veh	0.3						
-					1. 200		
Movement	EBT	EBR	WBL	WBT	NBL	NBR	
Lane Configurations	1		ሻ	^	7	7	
Traffic Vol. veh/h	1599	4	7	1297	6	12	
Future Vol, veh/h	1599	4	7	1297	6	12	
Conflicting Peds, #/hr	0	0	0	0	0	0	
Sign Control	Free	Free	Free	Free	Stop	Stop	Ī
RT Channelized		None	Sec. and	None	-	None	
Storage Length			275		0	200	Ī
Veh in Median Storage.	# 0		-	0	2		
Grade, %	0			0	0	-	
Peak Hour Factor	93	93	90	90	64	64	
	2	0	14	2	0	8	
Heavy Vehicles, %				1441	9	19	
Mymt Flow	1719	4	8	1441	Ą	19	
Major/Minor M	ajor1	- 1	Major2	- 1	Ainor1	-	
Conflicting Flow All	0	0	1723	0	2458	862	
Stage 1		· ·	1725	-	1721	-	Ī
Stage 2					737		
Critical Hdwy			4.38		6.8	7.06	
					5.8		
Critical Hdwy Stg 1	-	-	-	•		-	
Critical Hdwy Stg 2	•	-	- 0.04		5.8		
Follow-up Hdwy	-		2.34	-	3.5	3.38	
Pot Cap-1 Maneuver	•	-	314		26	287	
Stage 1	-	•	-	-	132		
Stage 2	-	- 100			439	•	
Platoon blocked, %	-	-		-			
Mov Cap-1 Maneuver	-		314		25	287	
Mov Cap-2 Maneuver	-	-			120	-	
Stage 1				0.00	132	-	
Stage 2	-		-		428		
2.030		79.33	4				
					112	9101	
Approach	EB		WB		NB		
HCM Control Delay, s	0		0.1		24.8		
HCM LOS					C		
La la companya da la		101 4	NDI C	EST	FDD	MIDI	h.4
Minor Lane/Major Mvml	1	NBLn1I		EBT	EBR		V
Capacity (veh/h)	d-1	120	287	-			
HCM Lane V/C Ratio		0.078			-	0.025	
HCM Control Delay (s)		37.5	18.4	-	-	16.8	
HCM Lane LOS		Е	С	-	-	С	
HCM 95th %tile Q(veh)	ÿ	0.2	0.2			-	
THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW	-		_				

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	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	

Interval #0 Information Seeding

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

Start Time	7:00	1.000		
End Time	8:00			
Total Time (min)	60			TEX SON MAIN
Volumes adjusted by Grov	vth Factors.		- Ť	1000 122,400

Vehs Entered	2424		
Vehs Exited	2419		
Starting Vehs	78		
Ending Vehs	83		
Travel Distance (mi)	3679		EV II
Travel Time (hr)	73.2		
Total Delay (hr)	5.0	160 18 1871	THE RESERVE OF THE RE
Total Stops	57		
Fuel Used (gal)	108.0		

Movement	WB	NB	NB	
Directions Served	L	L	R	
Maximum Queue (ft)	44	108	73	
Average Queue (ft)	3	27	13	
95th Queue (ft)	21	72	42	
Link Distance (ft)			1116	
Upstream Blk Time (%)	400		N Shan	
Queuing Penalty (veh)	7			
Storage Bay Dist (ft)	250	175		
Storage Blk Time (%)	To the same			
Queuing Penalty (veh)			1000	

Intersection: 2: Old Bailey Rd East & SC 170

Movement	WB	NB	NB		an Bayer I	
Directions Served	L	L	R	- 84		
Maximum Queue (ft)	25	50	31			
Average Queue (ft)	1	8	6			(1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
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)	- 30					

Network Summary

Start Time	3:50	
End Time	5:00	
Total Time (min)	70	
Time Recorded (min)	60	
# of Intervals	2	
# of Recorded Intervals	1	500 (c
Vehs Entered	2908	
Vehs Exited	2932	
Starting Vehs	102	
Ending Vehs	78	
Travel Distance (mi)	4450	
Travel Time (hr)	89.8	
Total Delay (hr)	7.5	
Total Stops	69	
Fuel Used (gal)	130.1	

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 inte	

Start Time	4:00	THE RESERVE THE PARTY OF THE PA
End Time	5:00	
Total Time (min)	60	
Volumes adjusted by Gro	wth Factors.	

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

Movement	WB	NB	NB	
Directions Served	L	L	R	
Maximum Queue (ft)	26	113	27	
Average Queue (ft)	5	37	7	
95th Queue (ft)	22	93	24	
Link Distance (ft)			1116	W W W
Upstream Blk Time (%)			AU PLANT	بالمال عالي إلى إلى إلى الكان المالية والمالية والمالة والعالية والمالة والعالم
Queuing Penalty (veh)				
Storage Bay Dist (ft)	250	175		
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 2: Old Bailey Rd East & SC 170

		4 1 00	110	A CONTRACTOR OF THE PARTY OF TH
Movement	WB	NB	NB	
Directions Served	L	L	R	
Maximum Queue (ft)	26	31	54	
Average Queue (ft)	4	5	14	
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 (%)				
Queuing Penalty (veh)	100			

Network Summary

Appendix E – Background 2027 Synchro and SimTraffic Reports

	-	>	-	•	4	-
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	44	1		11	ኘ	7
Traffic Volume (vph)	1335	18	3	1529	30	9
Future Volume (vph)	1335	18	3	1529	30	9
deal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (ft)		275	250	11/2+	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	13.5		0.950		0.950	
Satd. Flow (prot)	3374	1524	1081	3438	1752	1455
Fit Permitted			0.950		0.950	
Satd. Flow (perm)	3374	1524	1081	3438	1752	1455
Link Speed (mph)	55		2010	55	30	
Link Distance (ft)	1485	10-7	-	2650	1171	9,01
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			12	12	200
Link Offset(ft)	0	11.0.00		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	45 YO	15	9
Sign Control	Free			Free	Stop	
ntersection Summary	7200	8 -	and the same		2	
Area Type:	Other			44		
Control Type: Unsignalized						
Intersection Capacity Utilizat	ion 52.3%	5		10	CU Level	of Service
A 1 1 D 1 1/ 11/40						

Intersection	BH SI		_0000	N.C.		_ av.uu	L.VES. III., Miller V	North Company of the
Int Delay, s/veh	0.4						T	
Movement	EBT	EBR	WBL	WBT	NBL	NBR		
Lane Configurations	44	1	1	44	٦			
Traffic Vol. veh/h	1335	18	3	1529	30	9		
Future Vol, veh/h	1335	18	3	1529	30	9		
Conflicting Peds, #/hr	0	0	0	0	0	0	- CAS	
Sign Control	Free	Free	Free	Free	Stop	Stop		
RT Channelized	324	None		None	NAME OF	None		
Storage Length	_	275	250	-	175	0		
eh in Median Storage	# 0		100	0	2			
Grade, %	0	ameri-	_	0	0			
eak Hour Factor	94	94	90	90	90	90		and the second s
leavy Vehicles, %	7	6	67	5	3	11		
Nymt Flow	1420	19	3	1699	33	10		
	1120	- 10		1000	00	10		
OF THE STATE			_					
	/ajor1		Major2		Minor1			
Conflicting Flow All	0	0	1439	0	2276	710		- 1777 CA
Stage 1	1114		-	7.5	1420	_		
Stage 2	-	-		•	856	-		
ritical Hdwy		-	5.44		6.86	7.12		
Critical Hdwy Stg 1		-		-	5.86	-		
ritical Hdwy Stg 2			-	-	5.86			
ollow-up Hdwy		-	2.87	-	3.53	3.41		
ot Cap-1 Maneuver			240	10 .	~ 33	356	Marie Control	
Stage 1	-	- ·	-		187	-	414T	
Stage 2	× -		-	18 3	374			
Platoon blocked, %	-	A -		-				
Mov Cap-1 Maneuver			240	1	~ 33	356		
Nov Cap-2 Maneuver	-		-	-	159	-	Y	
Stage 1	-	-			187	"	LANGE OF THE PARTY	
Stage 2		3217	- 36	-	370	_	E- 1925/8/61	- Day Calaitha III ann 1200
	WITT	1 8			-		CONTRACTOR DA	
en e		William .	Min		MD			
pproach	EB	- 11 IL	WB		NB			and the state of t
CM Control Delay, s	0	7	0	anavari -	29.3		100 TO 10	
HCM LOS					D			00:1-2
Minor Lane/Major Mvm	t N	IBLn11	NBLn2	EBT	EBR	WBL	WBT	was a second
Capacity (veh/h)		159	356		0 <u> </u>	240	2018 CO	
CM Lane V/C Ratio			0.028	-		0.014	-	-1.50
HCM Control Delay (s)	h.,	33.5	15.4	- 1-1	-	20.2	STATE OF STREET	
ICM Lane LOS		D	С	-	-	С		-3/4
-CM 95th %tile Q(veh)		0.8	0.1			0		
Notes	30-0	200	0.1					2015
		0.0	-1		00			
: Volume exceeds cap	acity	3: D	elay ex	ceeds 3	UUS	+: Con	putation Not Defined	*: All major volume in platoon

	-	*	1	-	1	-	
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR	
Lane Configurations	414		7	44	٦	7	
Traffic Volume (vph)	1372	4	1	1527	6	5	
Future Volume (vph)	1372	4	1	1527	6	5	
deal 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		- 1011			1,14	0.850	
Fit Protected			0.950		0.950		
Satd. Flow (prot)	3406	0	1444	3438	1543	1615	
FIt Permitted	77.7		0.950	T	0.950		
Satd. Flow (perm)	3406	0	1444	3438	1543	1615	
Link Speed (mph)	55		188	55	30		
Link Distance (ft)	2727			1381	1408		
Travel Time (s)	33.8	100		17.1	32.0		
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 (%)			1500	***			
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	100		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	31101110	
ntersection Summary		10 B		- 0.70000		03/2	
	Other		II WE				
Control Type: Unsignalized							
Intersection Capacity Utilizat	ion 52.2%)		10	CU Level	of Service	A

Analysis Period (min) 15

ntersection	装皿	78118					1						. 2		0 -
Int Delay, s/veh	0.1				- 4										
Movement	EBT	EBR	WBL	WBT	NBL	NBR					ev.	-		W.	70
Lane Configurations	†		7	44	٦			rv - i			_		_	_	1100
Traffic Vol., veh/h	1372	4	1	1527	6	5		101W2-				-	L-37	S	, to
Future Vol, veh/h	1372	4	1	1527	6	5		-		-					
Conflicting Peds, #/hr	0	0	0	0	0	0	- 10						72		
Sign Control	Free	Free	Free	Free	Stop	Stop			_				-		
RT Channelized		None	-	None	Ctop	None	-To-	172.51		31.5	- (6)	7		104	
Storage Length	_		275	-	0	200					111				
Veh in Median Storage	# 0	-		0	2		1000	- w		- 380	GS .	-11-70	- 1		
Grade, %	0	146.0		0	0	7017								300	
Peak Hour Factor	96	96	91	91	90	90			15	TE I W	1111.0000	-20-		7000	
Heavy Vehicles, %	6	0	25	5	17	0		Jack Yo			97.00				
Mvmt Flow	1429	4	1	1678	7	6	- 530	-11-					127000		my -
															-
Major/Minor N	lajor1		Major2		dinard.	-		100	10 30						
					/inor1	747	1000	E E VIA		-	III.				-
Conflicting Flow All Stage 1	0	0	1433	0	2272	717		-	- 10						
Stage 1		_	-	- 1-	1431 841								-		100
Critical Hdwy	-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		4.6	-	7.14	6.9		-1-1			_			_	
Critical Hdwy Stg 1	-	- :	4.0	- 3-	6.14	0.9	-						-		
Critical Hdwy Stg 2	-	-	- -		6.14	180			0.00		HE TATE			110-010	
Follow-up Hdwy			2.45	-	3.67	3.3					<u>uuune</u>				-
Pot Cap-1 Maneuver		18 160	369	12	28	377				100	-	-			
Stage 1	-		303		162	- 311		200			- 647				
Stage 2	192			m.	348								_	-	011
Platoon blocked, %				-	010		10000		-61	-0.00			- 1		
Mov Cap-1 Maneuver			369	1	28	377			1207					-00	-
Mov Cap-2 Maneuver	- 100000	_	-		140	-									
Stage 1			T.		162	- A.			W 11	1		07527			
Stage 2		Α.		mi.	347	-				-	11				
		a :-	III.			81				THE STATE OF	170	1			
Approach	ED		With	-	ND		100	Dec Part							VVIII TO THE REAL PROPERTY.
Approach	EB		WB		NB						TIPE.			-	WE 24
HCM Control Delay, s	0		0	1000	24.1			201927		111111			112		- 31
HCM LOS		8111		1V	С								97/19		
			_000					9							== 1
Minor Lane/Major Mymt	l N	NBLn11	VBLn2	EBT	EBR	WBL	WBT			0.0000077			W2	1/25/	
Capacity (veh/h)		140	377	-	-	369	Parenty I	177	i vera	4 4			Sales and the sa	1000	-
HCM Lane V/C Ratio	-77 11-5	0.048	0.015	_	_	0.003									77.5
HCM Control Delay (s)		32	14.7	8 -	-	14.8						TOTAL			- 57
HCM Lane LOS		D	В	-	-	В									
HCM 95th %tile Q(veh)		0.1	0			0									

	_	•		-		
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	^	7	1	十十	7	7
Traffic Volume (vph)	1958	39	5	1573	24	5
Future Volume (vph)	1958	39	5	1573	24	5
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
Flt Protected	W11 80	حاتات	0.950	- 557	0.950	
Satd. Flow (prot)	3539	1538	1805	3539	1736	1615
Flt Permitted			0.950	LEGIS.	0.950	
Satd. Flow (perm)	3539	1538	1805	3539	1736	1615
Link Speed (mph)	55		100	55	30	
Link Distance (ft)	1485			2650	1171	
Travel Time (s)	18.4		STATE OF	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 (%)						
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	10000		12	12	
Link Offset(ft)	0			0	0	
Crosswalk Width(ft)	16	en merce		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	No.		2 SESSION			New York
Area Type: (Other					
Control Type: Unsignalized						
Intersection Capacity Utilizat	tion 64.1%			IC	CU Level	of Service (
Analysis Period (min) 15						

DIA	Don
PIVI	FEA

ntersection	7		Filles	· wi	100	WAXIII		- 1 m/V
nt Delay, s/veh	0.6							100
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	TANK THE STREET
ane Configurations	11	1	*	44	7	1		
	1958	39	5	1573	24	5		
	1958	39	5	1573	24	5		
onflicting Peds, #/hr	0	0	0	0	0	0	THE R. P. LEWIS CO., LANSING	
	Free	Free	Free	Free	Stop	Stop		7.00
RT Channelized		None		None	-	None		
Storage Length	-	275	250	-	175	0		
eh in Median Storage,	# 0	LHI.		0	2			
Grade, %	0	٠.	-	0	0			
eak Hour Factor	95	95	88	88	90	90		
leavy Vehicles, %	2	5	0	2	4	0		
	2061	41	6	1788	27	6		
							7,000	848
Injus/Minor	nin-4		Maion		Aine-4	ATT I		
	ajor1		Major2		Ainor1	4007		
Conflicting Flow All	0	U	2102	0	2967	1031		
Stage 1			•	100	2061	•		
Stage 2	-	-	-		906	-		
Critical Hdwy	-	-	4.1	•	6.88	6.9		
Critical Hdwy Stg 1		-	•	-	5.88			
critical Hdwy Stg 2	-	-	•		- 100 March 1984			
ollow-up Hdwy	-			-	V. V .	3.3		
ot Cap-1 Maneuver	-	-	265	-		234		
Stage 1	-	-	-	-	82	118	No.	
Stage 2	•	•		_	350	4		CONTRACTOR OF THE PARTY OF THE
Platoon blocked, %	-	-	005	_	44	1,385		
Nov Cap-1 Maneuver	•		265	11/5-1	~ 11	234		
Nov Cap-2 Maneuver	-	-	_		75	lin -		
Stage 1	_ •		-		82	-		
Stage 2	_		-	-	342	-		
						_		
pproach	EB	HIVE	WB	11111111	NB	vii l	THE RESERVE TO A SECOND	
ICM Control Delay, s	0		0.1	30	67.6			
ICM LOS			10.000		F			
						P		
linor Lane/Major Mymt		NBLn1	MDIO	EBT	Epp	JA/IDI	MOT	CHICATURE WORLD TO THE
apacity (veh/h)				-	EBR	WBL	WBT	
	ew.	75	234	Alace -		265	Seed 1	Harris and the second
ICM Control Doloy (a)	4 7 11		0.024			0.021		
ICM Control Delay (s) ICM Lane LOS		77.4 F	20.8	-,-		18.9	10000	
ICM 95th %tile Q(veh)			0.1	-	-	C		
CINI ADIII WING CITAGUT	78	1.4	0.1	•	Wast.	0.1	- 11 Mg - 11	
lotes								

	→	*	1	—	4	-
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	† 1>		- 1	十十	ħ	7
Traffic Volume (vph)	1945	4	7	1578	6	12
Future Volume (vph)	1945	4	7	1578	6	12
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 .		0.850
Flt Protected			0.950	-	0.950	
Satd. Flow (prot)	3539	0	1583	3539	1805	1495
FIt 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	=1,, =0		17.1	32.0	1
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 (%)					19111	- 10000
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	rugite	LOIL	12	12	, agric
Link Offset(ft)	0			0	0	
Crosswalk Width(ft)	16		= "	16	16	
Two way Left Turn Lane	Yes			Yes	10	
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	1.00	9	15	1.00	15	9
Sign Control	Free		10	Free	Stop	
	1100			1100	Otop	
Intersection Summary	20 100	214	-11	- CONTRACTOR		
The state of the s	Other			500		Address .
Control Type: Unsignalized	25 21	2	14.0			
Intersection Capacity Utilizat	ion 63.9%	ó		10	CU Level	of Service

Analysis Period (min) 15

Intersection	-	11000		31113	700	-5-6	
Int Delay, s/veh	0.2						
1		EDD	MAIDI	MOT	NO	Non	/***
Movement Lana Configurations	EBT	EBR	WBL	WBT	NBL	NBR	1688 E
Lane Configurations Traffic Vol., veh/h	1945	4	7	1579	7	12	(D)
Future Vol, veh/h	1945	4	7	1578 1578	6	12	
Conflicting Peds, #/hr	0	0	0	0	0	0	
Sign Control	Free	Free	Free	Free			_
RT Channelized	riee -	None	riee	None	Stop	Stop	
Storage Length		NONE	275	None	0	200	<u> </u>
Veh in Median Storage	,# 0	XXX (C)	2/3	0	2	200	
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	
WALL LION	2031	4	0	1100		13	-
Major/Minor N	Major1		Major2	N	Minor1		
Conflicting Flow All	0	0		0		1048	
Stage 1		W I	-		2093		
Stage 2	-			- "-	893	-	
Critical Howy	1505		4.38	10.0	6.8	7.06	
Critical Hdwy Stg 1	-		-	-	5.8		
Critical Hdwy Stg 2	- 4000	-	- I	-	5.8	-	
Follow-up Hdwy		-	2.34	-	3.5	3.38	
Pot Cap-1 Maneuver	-	1111 4	220		11	214	170
Stage 1	-	-		-	83	-	
Stage 2	-			10.	365	T.	
Platoon blocked, %			1				
Mov Cap-1 Maneuver	11 -		220		11	214	
Mov Cap-2 Maneuver	-	-		-	76	-	
Stage 1	-		100		83		
Stage 2	-	-	-	-	352	-	
	100		20 N)(t 1	erm		
Annyonah	ED.		MO		MD		- 4
Approach	EB		WB	_	NB	2	-
HCM Control Delay, s	0	14-16	0.1		34.2		
HCM LOS					D		
					March 1		
Minor Lane/Major Mvm	t N	VBLn1	VBLn2	EBT	EBR	WBL	WBT
Capacity (veh/h)	- WH	76	214	2 1/6		220	
HCM Lane V/C Ratio		0.088				0.035	
HCM Control Delay (s)		56.9	22.9			22	
HCM Lane LOS		F	C	-		C	-
HCM 95th %tile Q(veh)	2012	0.3	0.2	-7000		0.1	
1011		3.0	712			011	

Start Time	6:50	
End Time	8:00	- Awar
Total Time (min)	70	
Time Recorded (min)	60	
# of Intervals	2	
# of Recorded Intervals	1	againthe
Vehs Entered	2959	
Vehs Exited	2936	The state of the s
Starting Vehs	76	
Ending Vehs	99	
Travel Distance (mi)	4492	A CONTRACTOR OF THE CONTRACTOR
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	vth Factors.
No data recorded this inter	

IIICIVAI #1 IIIOIIII	attori i teooranig	
Start Time	7:00	
End Time	8:00	HW-92
Total Time (min)	60	
Volumes adjusted by Groy	th Factors.	

2050	
2936	
76	
99	
4492	
89.9	
7.1	
53	AMMAN SANSOR
131.7	
	99 4492 89.9 7.1 53

Movement	WB	NB	NB	
Directions Served	L	L	R	
Maximum Queue (ft)	49	90	51	
Average Queue (ft)	2	30	10	
95th Queue (ft)	16	75	36	
Link Distance (ft)			1116	
Upstream Blk Time (%)			WIT SE	
Queuing Penalty (veh)			we.	
Storage Bay Dist (ft)	250	175		
Storage Blk Time (%)				
Queuing Penalty (veh)		4	NE A	

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	WEST————ANY
95th Queue (ft)	29	25	
Link Distance (ft)	1363		
Upstream Blk Time (%)		100	
Queuing Penalty (veh)		orani a di	
Storage Bay Dist (ft)		200	
Storage Blk Time (%)		W/1-100	
Queuing Penalty (veh)		-	

Network Summary

Start Time	3:50	
End Time	5:00	
Total Time (min)	70	
Time Recorded (min)	60	1.000
# of Intervals	2	
# of Recorded Intervals	1	
Vehs Entered	3673	
Vehs Exited	3628	
Starting Vehs	92	
Ending Vehs	137	
Travel Distance (mi)	5605	
Travel Time (hr)	121.1	
Total Delay (hr)	17.3	
Total Stops	61	National Report of the Control of th
Fue Used (gal)	165.4	

Interval #0 Information Seeding

Start Time	3.50
End Time	4:00
Total Time (min)	10
Volumes adjusted by Growth	Factors.
No data recorded this interva	

IIICIVAI # I IIIOIIIIC	ttion recoording	 	
Start Time	4:00		
End Time	5:00		
Total Time (min)	60		
Volumes adjusted by Grow	th Factors.		

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

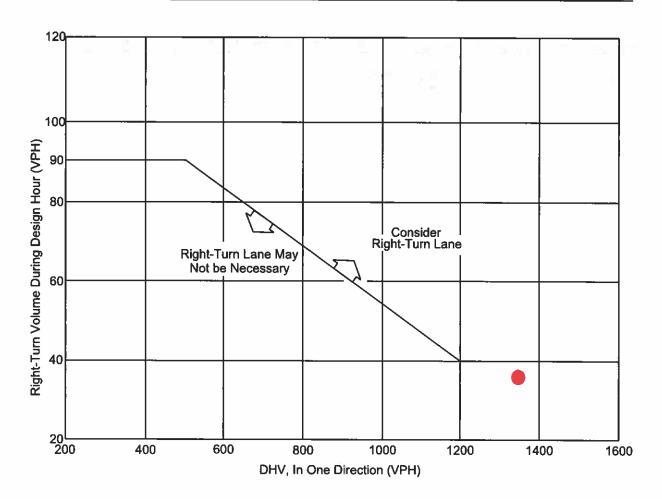
Movement	WB	NB	NB	
Directions Served	Ļ	L	R	
Maximum Queue (ft)	25	275	381	
Average Queue (ft)	2	159	113	
95th Queue (ft)	12	314	373	
Link Distance (ft)			1116	
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)	250	175		
Storage Blk Time (%)		48		97742
Queuing Penalty (veh)	alle a	2		

Intersection: 2: Old Bailey Rd East & SC 170

Movement	
Directions Served	*
Maximum Queue (ft)	
Average Queue (ft)	
95th Queue (ft)	
Link Distance (ft)	***
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Storage Blk Time (%) Queuing Penalty (veh)	

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	←	4	1
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	十个	7	ሻ	44	ħ	1
Traffic Volume (vph)	1372	21	3	1581	45	9
Future Volume (vph)	1372	21	3	1581	45	9
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (ft)		275	250		175	0
Storage Lanes	حالاوج	1	1		1	1
Taper Length (ft)			100	E	100	
Lane Util. Factor	0.95	1.00	1.00	0.95	1.00	1.00
Frt		0.850		i de dina		0.850
Fit Protected	72-27		0.950		0.950	HERMAN
Satd. Flow (prot)	3374	1524	1081	3438	1752	1455
Flt Permitted			0.950	-	0.950	
Satd. Flow (perm)	3374	1524	1081	3438	1752	1455
Link Speed (mph)	55		WHEE	55	30	-1139
Link Distance (ft)	1485	7	- Mele - 6	1016	1171	35 377
Travel Time (s)	18.4	14 P		12.6	26.6	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90
Heavy Vehicles (%)	7%	6%	67%	5%	3%	11%
Adj. Flow (vph)	1524	23	3	1757	50	10
Shared Lane Traffic (%)			XX.00.			
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	2.1		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)	.100	9	15	1.00	15	9
Sign Control	Free		.,	Free	Stop	
	n didda				- TOE	- 11
Intersection Summary	VII.	ALCOHOL:))		100000 3	
	ther			T I IIA		1000
Control Type: Unsignalized						
Intersection Capacity Utilizati	ion 53.7%			, IC	CU Level	of Service /
Analysis Period (min) 15						

		1575			7/1	
ntersection				SMP	SI AN	
Int Delay, s/veh	0.7					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	44	7	7	44	3	*
Traffic Vol. veh/h	1372	21	3	1581	45	9
Future Vol. veh/h	1372	21	3	1581	45	9
	0	0	0	0	0	0
Conflicting Peds, #/hr	Free	Free	Free	Free	Stop	Stop
Sign Control	riee	None		None	Stop -	None
RT Channelized			-	Man-		
Storage Length		275	250		175	0
Veh in Median Storage		*	-	0	2	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	7	6	67	5	3	11
Mvmt Flow	1524	23	3	1757	50	10
Major/Minor	Major1	-	Major2	A	Minor1	
						762
Conflicting Flow All	0	U	1547	0	2409 1524	
Stage 1	-	-	•	-		-
Stage 2	-	_	E 44		885	7 10
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	7.	-	211	-	~ 27	328
Stage 1	-	-	-	-	164	-
Stage 2	==7.	•		75-	361	
Platoon blocked, %	-					
Mov Cap-1 Maneuver			211		~ 27	328
Mov Cap-2 Maneuver		_	_	-	141	-
Stage 1	985	-	- 22		164	- 38E
Stage 2	-		-	- 1	356	-
Otago L		1000		- 37	XXX	
				_	-	
Approach	EB		W8		NB	7 753
HCM Control Delay, s	0		0		39.3	
HCM LOS					Е	
			100			
Art I Date to Admin		NIOL -4	MOL -0	FOT	CDD	MIDI
Minor Lane/Major Myn	nt	NBLn1		EBT	EBR	
Capacity (veh/h)		141	328	-		
HCM Lane V/C Ratio		0.355		-		0.016
HCM Control Delay (s)	43.9	16.3			
HCM Lane LOS		Е		-		С
HCM 95th %tile Q(vel	1)	1.5	0.1		•	0
Notes			TI TAN	- 27	7 = 7	7 Y .
	- It	6.0	lolau ov	annda 1	2000	+: Con
-: Volume exceeds ca	pacity	ə . U	elay ex	ceeds 3	0008	T. CON

	-	•	-	←	•	1
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	41		7	44	7	*
Traffic Volume (vph)	1393	4	4	1545	6	20
Future Volume (vph)	1393	4	4	1545	6	20
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)	28 Cm		100	11 32 3	100	10.10
Lane Util. Factor	0.95	0.95	1.00	0.95	1.00	1.00
Frt				772.5		0.850
Fit Protected		11 3	0.950		0.950	
Satd. Flow (prot)	3406	0	1444	3438	1543	1615
Fit Permitted		14,313	0.950	100	0.950	
Satd. Flow (perm)	3406	0	1444	3438	1543	1615
Link Speed (mph)	55		55.000	55	30	20
Link Distance (ft)	2727			1381	1408	
Travel Time (s)	33.8			17.1	32.0	T - 55 F
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90
Heavy Vehicles (%)	6%	0%	25%	5%	17%	0%
Adj. Flow (vph)	1548	4	4	1717	7	22
Shared Lane Traffic (%)			- Table 1			
Lane Group Flow (vph)	1552	0	4	1717	7	22
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(ft)	12	3.11		12	12	3
Link Offset(ft)	0			0	0	
Crosswalk Width(ft)	16	- 11	100	16	16	
Two way Left Tum Lane	Yes			Yes		
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	1.00	9	15	1,00	1.00	9
Sign Control	Free	71 28		Free	Stop	-
The same and the s	1,100			1100	OtoB	
Intersection Summary			SV A PILL	1 3		
	Other	- 12 - 11	1.00.75	TANK :		
Control Type: Unsignalized						
Intersection Capacity Utilizati	ion 52.7%			IC	U Level	of Service A
Analysis Period (min) 15						

ntersection	Mag Ja	11.38	ğ mille	, Marie		<u> </u>
Int Delay, s/veh	0.2					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
The second of th	1	LUIN	1	朴	7	T
Lane Configurations Traffic Vol., veh/h	1393	4	4	1545	6	20
	1393	4	4	1545	6	20
Future Vol, veh/h						0
Conflicting Peds, #/hr	0	0	0	0	0	
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	•		075	None	-	None
Storage Length		-	275		0	200
Veh in Median Storage		-	-	0	2	- 1-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	6	0	25	5	17	0
Mymt Flow	1548	4	4	1717	7	22
	m					
	NA-IA		1-1-0	- 14	fin and	
	Major1		Major2		Minor1	7-4
Conflicting Flow All	0	0	1552	0	2417	776
Stage 1		-	•	•	1550	•
Stage 2	-	-	-		867	-
Critical Hdwy	-		4.6		7.14	6,9
Critical Hdwy Stg 1	-	-	-	-	6.14	•
Critical Hdwy Stg 2	-	-	-	/A .	6.14	
Follow-up Hdwy	-	-	2.45	-	3.67	3.3
Pot Cap-1 Maneuver			328	-	22	345
Stage 1	-	***	-	-	139	-
Stage 2			11897		337	- 30
			-		557	- 2
Platoon blocked, %		_	220		22	245
Mov Cap-1 Maneuver		•	328	•		345
Mov Cap-2 Maneuver	-		-	-	122	-
Stage 1	6 E +	-	-		139	
Stage 2	-	-	-	-	333	-
Approach	EB		WB		NB	
		7.50	0	- 9	20.8	
HCM Control Delay, s	U		Ū			
HCM LOS					С	
Minor Lane/Major Myr	nt	NBLn1	NBLn2	EBT	EBR	WBL
Capacity (veh/h)		122	345			AND DESCRIPTION OF
HCM Lane V/C Ratio		0.055				0.014
HCM Control Delay (s	1	36.2	16.2		100	7.0.0
	1	50.2 E	C		-	C
HCM Lane LOS	hì				_	
HCM 95th %tile Q(vel	n)	0.2	0.2			0

	-	•	1	←	1	-
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	^	7	N.	† †	*	7
Traffic Volume (vph)	1346	37	18	1533	52	21
Future Volume (vph)	1346	37	18	1533	52	21
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	- 12-22-27-27-2			0.850
Fit Protected			0.950		0.950	
Satd. Flow (prot)	3539	1583	1770	3539	1770	1583
FIt Permitted			0.950		0.950	
Satd. Flow (perm)	3539	1583	1770	3539	1770	1583
Link Speed (mph)	55		-	55	30	1,00
Link Distance (ft)	1016			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)	1496	41	20	1703	58	23
Shared Lane Traffic (%)						The state of
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	10.00	**	Free	Stop	
ntersection Summary						. 775
Area Type: C	Other		- 1279-5			
Control Type: Unsignalized						July 27
Intersection Capacity Utilizati	ion 52.4%			IC	CU Level	of Service
Analysis Period (min) 15		TT T	11 100			100 TW

				1988 T			-195	- IIBNAII-
tersection								
t Delay, s/veh	1							
ovement	EBT	EBR	WBL	WBT	NBL	NBR	Strate Name of	
ane Configurations	44	7	1	^	1	7		
affic Vol. veh/h	1346	37	18	1533	52	21		
ture Vol, veh/h	1346	37	18	1533	52	21		
onflicting Peds, #/hr		0	0	0	0	0		
gn Control	Free	Free	Free	Free	Stop	Stop		
Channelized		None		None		None	The second second	
orage Length	-	150	150	-	0	0		
eh in Median Storag	e.# 0			0	2			The second secon
rade, %	0			0	0	-		
eak Hour Factor	90	90	90	90	90	90	HAVE THE REST	
eavy Vehicles, %	2	2	2	2	2	2	10,120	
mt Flow	1496	41	20	1703	58	23		The second second
me i ton	1 100	71	20	1,00	00		20091	
	Major1		Major2		Minor1	III Control		
onflicting Flow All	0	0	1537	0		748		
Stage 1		<u> </u>	-		1496	-	102	
Stage 2	-	111	-		892		-0.200	
tical Hdwy		-	4.14	77.15 Sec	6.84	6.94		
itical Hdwy Stg 1	-	-	-	-	5.84	-		
itical Hdwy Stg 2		-	-	-	5.84	-		218-21-1000
llow-up Hdwy	0.00		2.22	-	3.52	3.32		
t Cap-1 Maneuver			429		~ 28	355		
Stage 1	2)SIO -	-	-	-	172	-		
Stage 2				-	361	-		
latoon blocked, %	-	-		-				
lov Cap-1 Maneuver		-	429	-	~ 27	355		والمساول والموارس
lov Cap-2 Maneuver				-8	146	-	0.554	
Stage 1			- 15		172	-		
Stage 2	-	-			344			
	-							
TOTAL STREET			14.00		NO			NAME OF TAXABLE PARTY.
proach	EB		WB		NB			
CM Control Delay, s	s 0		0.2		36.6			Nico III
CM LOS			11/11/		Е	100000		
							110.35	
inor Lane/Major My	mt 1	NBLn1i	NBI n2	EBT	EBR	WBL	WBT	
apacity (veh/h)		146	355	-	-	429	and the state of the state of	
CM Lane V/C Ratio		0.396				0.047	-	10 To
CANAL TRANSPORT		44.9	15.9			13.8		
CM Long LOS	5)	44.9 E	15.9 C	-		13.0 B		
CM Lane LOS	h\	1.7	0.2	-	-	0.1		
CM 95th %tile Q(ve	811)	1./	0.2	•		0.1		
otes		#Paths		أرحط				
Volume exceeds c	apacity	\$: D	elay ex	ceeds 3	800s	+: Con	nputation Not Defined	*: All major volume in platoon
	1							

	۶	-	←	•	1	1	
Lane Group	EBL	EBT	WBT	WBR	SBL	SBR	
Lane Configurations		र्न	P		Y		0.00
Traffic Volume (vph)	3	15	20	3	15	15	
Future Volume (vph)	3	15	20	3	15	15	42
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	- 200
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	
Frt	11-		0.984	5 1	0.932		
Flt Protected		0.993			0.976	The state of the s	
Satd. Flow (prot)	0	1887	1870	0	1728	0	- N.
Flt Permitted		0.993			0.976		11.500
Satd. Flow (perm)	0	1887	1870	0	1728	0	W11 11
Link Speed (mph)		30	30		30		1000
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%	- 40
Adj. Flow (vph)	3	17	22	3	17	17	
Shared Lane Traffic (%)			45x3	37.75			
Lane Group Flow (vph)	0	20	25	0	34	0	4 7 7
Enter Blocked Intersection	No	No	No	No	No	No	
Lane Alignment	Left	Left	Left	Right	Left	Right	
Median Width(ft)		0	0	, signit	12	1 digiti	
Link Offset(ft)	-120	0	0		0		
Crosswalk Width(ft)		16	16		16		
Two way Left Turn Lane		-	- 10		10		STAC
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	
Turning Speed (mph)	60	1.00	1.00	60	60	60	
Sign Control	00	Free	Free	00	Stop	00	
12		1166	LICC		Stup		39
ntersection Summary	100	- 100				THE REPORT	
//	ther	- 200		· V			
Control Type: Unsignalized	والمالية						THE R
Intersection Capacity Utilizati	on 13.4%			IC	CU Level	of Service A	
Analysis Period (min) 15	-		7.1				

Intersection		fill i	ПΕ			
Int Delay, s/veh	4					100
	100		1411-10	MES	ADI	000
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	HVs.	4	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
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-				0	-
Veh in Median Storage	e.# -	0	0		. 0	
Grade, %	-	0	0	-	0	
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	0	0	0	0	0	0
	3	17	22	3	17	17
Mvmt Flow	3	11	22	J	U	11
Major/Minor	Major1	N.	Major2	N	/Inor2	
Conflicting Flow Ali	25	0	-	0	47	24
Stage 1			2 1		24	
Stage 2				-	23	-
	4.1	_	<u>.</u>		6.4	6.2
Critical Hdwy	4.1				5.4	0.2
Critical Hdwy Stg 1	-		_			
Critical Hdwy Stg 2	-	•	•	PR.	5.4	-
Follow-up Hdwy	2.2	100	-	-	3.5	3.3
Pot Cap-1 Maneuver	1603	-	- 15	- 1	968	1058
Stage 1	•	-	-	- 0	1004	-
Stage 2	-			-	1005	
Platoon blocked, %	100			-	- 3	
Mov Cap-1 Maneuver	1603	-			966	1058
Mov Cap-2 Maneuver				-	966	-
Stage 1				T-	1002	
		_			1005	
Stage 2			_		1000	
				- 50		
Approach	EB		WB		SB	
HCM Control Delay, s	1.2	Topic and	0		8.7	35
HCM LOS	-				Α	
TOM LOO						
Minor Lane/Major Myr	mt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)		1603		- 1		1010
HCM Lane V/C Ratio		0.002	_	148.07		0.033
HCM Control Delay (s	1	7.2	0			
HCM Lane LOS	1	A	A		-	
HCM 95th %tile Q(vel	h)	0	^			A 4
HOM SOME WINE CLASS	IJ.	U			•	U. I

	→	•	1	←	4	-		
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR	DOUG.	A.
Lane Configurations	44	7	N.	44	ሻ	7		
Traffic Volume (vph)	2028	44	5	1619	39	5		
Future Volume (vph)	2028	44	5	1619	39	5	E 3	100
deal Flow (vphpl)	1900	1900	1900	1900	1900	1900		
Storage Length (ft)		275	250		175	0	1.5	
Storage Lanes		1	1	No.	1	1		
Taper Length (ft)	1,132		100		100			
Lane Util, Factor	0.95	1.00	1.00	0.95	1.00	1.00	75	- 39
Frt		0.850				0.850		
Fit Protected	15		0.950		0.950		-48	
Satd. Flow (prot)	3539	1538	1805	3539	1736	1615	100 6	
Flt Permitted			0.950		0.950		-	-30
Satd. Flow (perm)	3539	1538	1805	3539	1736	1615	188	
Link Speed (mph)	55			55	30		2 - 200	
Link Distance (ft)	1485			1016	1171		177	
Travel Time (s)	18.4	314 930		12.6	26.6	W		
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90		Т
Heavy Vehicles (%)	2%	5%	0%	2%	4%	0%		
Adj. Flow (vph)	2253	49	6	1799	43	6		
Shared Lane Traffic (%)	1 1 1		1000		75		11	
Lane Group Flow (vph)	2253	49	6	1799	43	6		
Enter Blocked Intersection	No	No	No	No	No	No	- V 1	
Lane Alignment	Left	Right	Left	Left	Left	Right		
Median Width(ft)	12	- 150		12	12	*	6	
Link Offset(ft)	0			0	0	- Y		
Crosswalk Width(ft)	16	2000		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		FE II	Free	Stop	OSCIA D		
ntersection Summary			inde				11	
	Other	District Co.						-
Control Type: Unsignalized	/iiiei						- CHAO	-
Intersection Capacity Utilizat	ion GG 10/		E 100	10	Hil ough	of Service (C	
Analysis Period (min) 15	1011 00.1%			IC	o Level	or Service (J	
Analysis Fellou (IIIII) 13								

ntersection			200	是川		
Int Delay, s/veh	1.7					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
			7	44	٦	7
Lane Configurations	2020	77			39	5
Traffic Vol. veh/h	2028	44	5	1619		
Future Vol, veh/h	2028	44	5	1619	39	5
Conflicting Peds, #/hr	0	0	0	_ 0	Q	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	7.	None	•	None
Storage Length	4 15	275	250	-	175	0
Veh in Median Storag		-	-	0	2	-
Grade, %	0	· -	-	0	0	
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	2	5	0	2	4	0
Mymt Flow	2253	49	6	1799	43	6
MAINTLION	LLOO	10	Ū	11.00	- 10	_
				trett.		
Major/Minor	Major1		Major2	١	Minor1	
Conflicting Flow All	0	0	2302	0	3165	1127
Stage 1	-				2253	-
Stage 2	_	-	100		912	111-
Critical Hdwy	- 2	-	4.1		6.88	6.9
Critical Hdwy Stg 1	_		-		5.88	0.0
Critical Hdwy Stg 2					5.88	
			2.2		3.54	3.3
Follow-up Hdwy		-	222	16 N	3,3 4 ~ 8	202
Pot Cap-1 Maneuver	-		222	-		
Stage 1	-	-	-	-	64	
Stage 2	-		-	•	347	
Platoon blocked, %	-	-		-	-	
Mov Cap-1 Maneuver	-	-	222		~ 8	202
Mov Cap-2 Maneuver				-	59	-
Stage 1	-		-		64	-
Stage 2	_	-	-		338	-
		1012			W	
				17/2	-	200
Approach	EB		WB		NB	Y 3.
HCM Control Delay, s	0		0.1	777	144.7	
HCM LOS					F	
			NIE E			14/54
Minor Lane/Major Mv	mt	NBLn1	_	EBT	EBR	WBL
Capacity (veh/h)		59	202			The second second
HCM Lane V/C Ratio		0.734	0.028	-	-	0.025
HCM Control Delay (s		160.3	23.3	-		21.6
HCM Lane LOS	-	F		-		-
HCM 95th %tile Q(ve	h)	3.2			6	0.1
	4	0,2	0,1	- 111		AL.
Notes						بالتعبير
Volume exceeds c	apacity	\$. D	elay ex	ceeds	300s	+: Con

	\rightarrow	>	1	—	1		
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR	
Lane Configurations	ተ ኩ		7	†	7	7	
Traffic Volume (vph)	1962	4	13	1613	6	26	
Future Volume (vph)	1962	4	13	1613	6	26	4828 4 31 157
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	
Storage Length (ft)		0	275		0	200	
Storage Lanes		0	1	100	1	1	
Taper Length (ft)	30.		100	195.55	100		
Lane Util. Factor	0.95	0.95	1.00	0.95	1.00	1.00	
Frt			perioriza			0.850	The second secon
Fit Protected		LEED WILL	0,950		0.950	2000	
Satd. Flow (prot)	3539	0	1583	3539	1805	1495	
Flt Permitted			0.950	Lower	0.950		
Satd. Flow (perm)	3539	0	1583	3539	1805	1495	J/O
Link Speed (mph)	55	= 11"=	250	55	30	and the same	
Link Distance (ft)	2727			1381	1408		
Travel Time (s)	33.8			17.1	32.0		The state of the s
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	1N
Heavy Vehicles (%)	2%	0%	14%	2%	0%	8%	
Adj. Flow (vph)	2180	4	14	1792	7	29	
Shared Lane Traffic (%)	2 - 1	4-25			F		
Lane Group Flow (vph)	2184	0	14	1792	7	29	
Enter Blocked Intersection	No	No	No	No	No	No	
Lane Alignment	Left	Right	Left	Left	Left	Right	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -
Median Width(ft)	12			12	12		
Link Offset(ft)	0	12,117		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	-11	
ntersection Summary	- A 30		530 AF	2.41		or is	
	ther	THE TOTAL	T - Washing	107 Total	W TITE	N. HI	
Control Type: Unsignalized			- 100				
Intersection Capacity Utilizati	on 64.4%	KILL K	11 00	IC	U Level	of Service	e C
Analysis Period (min) 15							

ntersection	9.55.11		33 13	Wali.		
Int Delay, s/veh	0.4					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
		LDIN	VVDL	1	MOL	TADIX.
Lane Configurations	↑ ↑	4	13	1613	6	26
Traffic Vol. veh/h			13		6	26
Future Vol, veh/h	1962	4		1613		
Conflicting Peds, #/hr	0	0	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 Storage				0	2	-
Grade, %	0	-		0	0	7/2
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
in the last	2100	•	, ,			
V					42	
	Major1		Major2		Vinor1	00 10
Conflicting Flow All	0	0	2184	0	3106	1092
Stage 1		-	-		2182	-
Stage 2		- 12	-	-	924	· -
Critical Hdwy			4.38		6.8	7.06
Critical Hdwy Stg 1	-		-		5.8	-
Critical Hdwy Stg 2	0.000	-	-		5.8	
Follow-up Hdwy	-	- 2	2.34		3.5	3.38
Pot Cap-1 Maneuver	-0.5		202		9	200
Stage 1					74	_
		_		d are	352	
Stage 2		-	- 0.3		332	
Platoon blocked, %	_	_	202		0	200
Mov Cap-1 Maneuver			-	- 4	8	200
Mov Cap-2 Maneuver	-			•	68	-
Stage 1	-	-	555	-	74	-
Stage 2	-	-	-		328	1177 T
		100	-05			
Approach	EB		WB		NB	
The second secon		170	0.2	1	33.1	
HCM Control Delay, s	U		U.Z		33.1 D	
HCM LOS					U	
Minor Lane/Major My	mt	NBLn1	NBLn2	EBT	EBR	WBL
Capacity (veh/h)	-	68	200			
HCM Lane V/C Ratio	A-41		0.144			0.072
HCM Control Delay (s	1	63.6	26			24.2
	4	63.0 F				
HCM Lane LOS	h)	0.3			- -	
HCM 95th %tile Q(ve	n)	0.3	0.0	-		0.2

	-	*	1	←	1	-
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	^	7	7	† †	N.	7
Traffic Volume (vph)	1944	90	52	1561	63	37
Future Volume (vph)	1944	90	52	1561	63	37
deal 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	-7.		-35-5	0.850
Fit Protected			0.950		0.950	
Satd. Flow (prot)	3539	1583	1770	3539	1770	1583
Fit Permitted			0.950		0.950	Gental Control
Satd. Flow (perm)	3539	1583	1770	3539	1770	1583
Link Speed (mph)	55		1.10	55	30	8
Link Distance (ft)	1016		1000	1628	1563	-0.1
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 (%)		T		W.C		
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		- 111	12	12	1200
Link Offset(ft)	0	- 33		0	0	15
Crosswalk Width(ft)	16	3-111		16	16	
Two way Left Turn Lane	Yes	وبوالق		Yes	11-11-	
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)		9	15		15	9
Sign Control	Free	200		Free	Stop	
Intersection Summary		100000			W ser	
Area Type: O	ther	6.13		- 3		
Control Type: Unsignalized		-	100) icu	W. L.
Intersection Capacity Utilizati	ion 63.9%	72.0		IC	U Level	of Service (
Analysis Period (min) 15		11 20 1	100	U 118		TEST.

ntersection					THE SAL			
Int Delay, s/veh	4.6							
Movement	EBT	EBR	WBL	WBT	NBL	NBR	THE RESERVE ASSESSMENT	
Lane Configurations	44	7	T I	44	7	7		
Traffic Vol., veh/h	1944	90	52	1561	63	37		O THE STREET OF
Future Vol, veh/h	1944	90	52	1561	63	37		
Conflicting Peds, #/hr		0	0	0	0	0		The second secon
Sign Control	Free	Free	Free	Free	Stop	Stop		
RT Channelized	1100	None	-	None	- Citop	None		
Storage Length	_	150	150		0	0		
Veh in Median Storage		100	100	0	2	-	THE RESERVE	
Grade, %	0	-	-	0	0	_		
Peak Hour Factor	90	90	90	90	90	90		
Heavy Vehicles, %	2	2	2	2	2	2	100	01/00
Mymt Flow	2160	100	58	1734	70	41		
MANUEL CIOM	2100	100	30	1704	70	71		
11 11 11 11 11	10.5	40						
	Major1		Major2		Vlinor1			
Conflicting Flow All	0	0	2260	0		1080	- 1	
Stage 1					2160		The second	
Stage 2	-	-	- 17	-	983	-	8.5	
Critical Hdwy	-		4.14		6.84	6.94		
Critical Hdwy Stg 1	-	-	-	-	5.84	_		
Critical Hdwy Stg 2	-	-	-	-	5.84	-		
Follow-up Hdwy	-	-	2.22	_	3.52	3.32		
Pot Cap-1 Maneuver	-	•	223	-	~ 8	214		
Stage 1	-	-	-	-	74	-		
Stage 2		-			323	-		
Platoon blocked, %	-	- 4		-				
Mov Cap-1 Maneuver	-	- 1	223		~6	214		
Mov Cap-2 Maneuver			-	-	~ 66	-	Now the second	
Stage 1		-	- 7/4	-	74	-		
Stage 2				T .	239	-		- 92
1		- 12		E 4.				
Approach	ED		WB		NB		DVI STORTS	
Approach	EB	CALE.			157.7			
HCM Control Delay, s	0	_	0.9					
HCM LOS					F	a re		
					- 6			
Minor Lane/Major Mvi	mt	NBLn1	NBLn2	EBT	EBR	WBL	WBT	
Capacity (veh/h)	100	66				223		7635 W
HCM Lane V/C Ratio			0.192		-	0.259		
HCM Control Delay (s		235.1	25.8	-	- 100	00 =		
HCM Lane LOS	*	F		-	-	D	-	
HCM 95th %tile Q(ve	h)	5.4	0.7			1		
	-	-	-					
Notes					200		A C N D C	9. All
-: Volume exceeds ca	apacity	\$: D	elay ex	ceeds	300s	+: Con	nputation Not Defined	*: All major volume in platoon
							6	

	۶	-	—	4	-	1
Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	- W-4	र्स	P		W	
Traffic Volume (vph)	5	34	18	6	14	15
Future Volume (vph)	5	34	18	6	14	15
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.965	-53000	0.930	
Flt Protected		0.993			0.976	
Satd. Flow (prot)	0	1887	1834	0	1725	0
Flt Permitted		0.993			0.976	10
Satd. Flow (perm)	0	1887	1834	0	1725	0
Link Speed (mph)		30	30		30	
Link Distance (ft)	11.4	559	769		549	4-476
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 (%)					48	di .
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						111111111111111111111111111111111111111
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		48	9	15	9
Sign Control		Free	Free		Stop	
ntersection Summary		W 10	12/2/3	1145	ATT -	Re l
Area Type: O	ther		7.1	- 10		
Control Type: Unsignalized		68 "E	1			
Intersection Capacity Utilizati	ion 16.0%			IC	U Level	of Service A
Analysis Period (min) 15			11. 11.			

ntersection			JU - 5		15 11	I Jedy
Int Delay, s/veh	3.1					
	EBL	EBT	WBT	WBR	SBL	SBR
Movement	EDL			AADL		ODIN
Lane Configurations	~	4	10	C	14	15
Traffic Vol., veh/h	5	34	18	6	14	
Future Vol, veh/h	5	34	18	6	14	15
Conflicting Peds, #/hr	0	0	0	0	0	0
~	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	•	None		None
Storage Length	-		-		0	-
Veh in Median Storage,	# -	0	0		0	-
Grade, %	-	0	0	-	0	
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	6	38	20	7	16	17
	1000					100
					1 . 0	nuc 31
	ajor1		Major2		Minor2	
Conflicting Flow All	27	0	-	0	74	24
Stage 1	-		-		24	-
Stage 2	-	-	-	-	50	: - ·
Critical Hdwy	4.1	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-		-	- 77	5.4	-
Critical Hdwy Stg 2				-	5.4	
Follow-up Hdwy	2.2		-	-	3.5	3.3
	1600		75 L		005	1058
Stage 1	-		-			-
Stage 2	-		-		978	
					310	
Platoon blocked, %	1600	-		-	931	1058
		-				
Mov Cap-2 Maneuver	-	19150-			931	•
Stage 1	-	-	-	-	1000	-1-
Stage 2	-	-	-	-	978	· •
					1000	
Approach	EB	-	WB		SB	
	0.9		0	- 200	8.7	
HCM Control Delay, s	0.9		U		Α	
HCM LOS					А	
Minor Lane/Major Mymt		EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)		1600			_	993
HCM Lane V/C Ratio		0.003				0.032
	1 1 1 1 1	7.3	0			-
HCM Control Delay (s)						
HCM Lane LOS	9.9	A	Α		-	
HCM 95th %tile Q(veh)	8	0	•	-	- 10	0.1

Summary of All Intervals

Start Time	6:50	a li fiere ivi	N NOT THE BUDY S	
End Time	8:00			
Total Time (min)	70	WI DOWN JOHN	MARKET STATE OF	
Time Recorded (min)	60			
# of Intervals	2			THE RESERVE OF THE PERSON NAMED IN COLUMN 1
# of Recorded Intervals	1			
Vehs Entered	3320		V IIIS NO III	
Vehs Exited	3328	7777		
Starting Vehs	100			
Ending Vehs	92			
Travel Distance (mi)	4579		TO SEE STATE	The second second
Travel Time (hr)	94.6			V-4-10-004
Total Delay (hr)	9.2			
Total Stops	201			159-31
Fuel Used (gal)	139.3			

Interval #0 Information Seeding

Start Time	6:50		
End Time	7:00	70.	
Total Time (min)	10		E BOOK STORY
Volumes adjusted by Grow	th Factors.		
No data recorded this inter			

Interval #1 Information Recording

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

Vehs Entered	3320	
Vehs Exited	3328	 117
Starting Vehs	100	THE RESERVE OF THE PERSON NAMED IN
Ending Vehs	92	
Travel Distance (mi)	4579	
Travel Time (hr)	94.6	1000
Total Delay (hr)	9.2	HISTORIA III X
Total Stops	201	
Fuel Used (gal)	139.3	

Intersection: 1: Old Bailey Rd West & SC 170

Movement	WB	NB	NB		mu.		P-T-			15.00	*
Directions Served	L	L	R	150					57373		
Maximum Queue (ft)	47	115	51								
Average Queue (ft)	3	43	7								
95th Queue (ft)	22	96	30						300		e de la composición della comp
Link Distance (ft)			1116			944				V	
Upstream Blk Time (%)		III.								ATT	WEST.
Queuing Penalty (veh)								. INI			
Storage Bay Dist (ft)	250	175									
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)	44	50	31	
Average Queue (ft)	2	10	17	
95th Queue (ft)	17	32	41	
Link Distance (ft)	and a second	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)	32	182	44	
Average Queue (ft)	8	43	12	
95th Queue (ft)	29	104	33	
Link Distance (ft)	500	1506	1506	
Upstream Blk Time (%)				
Queuing Penalty (veh)	O STORY			
Storage Bay Dist (ft)	150			
Storage Blk Time (%)		6,701		
Queuing Penalty (veh)				

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

Movement	SB			THE RESERVE		-W		UIII 2019	
Directions Served	LR	2 11 2							
Maximum Queue (ft)	31			TO TOUR			March 1		100
Average Queue (ft)	18	4.41000							
95th Queue (ft)	43			2000000	E. 8	1500		 HW =	= 1100.1
Link Distance (ft)	520		177					1882	
Upstream Blk Time (%)			0.0		E.,///		M. E. Santi	Sales and	
Queuing Penalty (veh)		******		6,000,100					
Storage Bay Dist (ft)									
Storage Blk Time (%) Queuing Penalty (veh)								-50	
Queuing Penalty (veh)					To the same		AU	Maria	, 10

Network Summary

Network wide Queuing Penalty: 0

Summary of All Intervals

Start Time	3:50	TEACH WALLING		1 1989	
End Time	5:00		40.00	100.0	
Total Time (min)	70				
Time Recorded (min)	60				
# of Intervals	2				
# of Recorded Intervals	1			100	
Vehs Entered	3833				
Vehs Exited	3804				
Starting Vehs	139				
Ending Vehs	168	- 100			
Travel Distance (mi)	5588				A CHARLES
Travel Time (hr)	147.5				
Total Delay (hr)	42.6				
Total Stops	255				
Fuel Used (gal)	176.1		17.00		The state of the s

Interval #0 Information Seeding

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

Interval #1 Information Recording

IIILEIVAI # I IIIIOIIIIR	ation recording		
Start Time	4:00		
End Time	5:00		
Total Time (min)	60		
Volumes adjusted by Grow	th Factors.	2000	200

3833		3.00		
3804				
139				
168			1.000	
5588				
147.5				
42.6				
255				
176.1				
	3804 139 168 5588 147.5 42.6 255	3804 139 168 5588 147.5 42.6 255	3804 139 168 5588 147.5 42.6 255	3804 139 168 5588 147.5 42.6 255

Intersection: 1: Old Bailey Rd West & SC 170

Movement	WB	NB	NB	
Directions Served	L	L	R	
Maximum Queue (ft)	29	274	586	
Average Queue (ft)	3	243	264	
95th Queue (ft)	18	324	611	
Link Distance (ft)			1116	
Upstream Blk Time (%)			III T	
Queuing Penalty (veh)				
Storage Bay Dist (ft)	250	175		
Storage Blk Time (%)		87		
Queuing Penalty (veh)		4	SECTION AND ADDRESS.	

Intersection: 2: Old Bailey Rd East & SC 170

WB	NB	NB	
L	L	R	
48	52	94	
9	13	24	The same of the sa
32	40	66	
	1363	100	White and the second se
	4		
	W. 12		
275		200	
	0-		
		1000	
	48 9 32	L L 48 52 9 13 32 40 1363	L L R 48 52 94 9 13 24 32 40 66 1363

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	
95th Queue (ft)	67	757	45	
Link Distance (ft)	1 (-7)	1506	1506	
Upstream Blk Time (%)				
Queuing Penalty (veh)			12-7-12-7	
Storage Bay Dist (ft)	150			
Storage Blk Time (%)				
Queuing Penalty (veh)				

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

Movement	SB	. H				E () # 1		VANADA.	400
Directions Served	LR		No and the		7		2500.00		
Maximum Queue (ft)	30								
Average Queue (ft)	19						4-1-		
95th Queue (ft)	42							a Bry	
Link Distance (ft)	520		99.9						
Upstream Blk Time (%)						SHELL	11.0		
Queuing Penalty (veh)									
Storage Bay Dist (ft)							W 157/1		
Storage Blk Time (%)	100			115111					
Queuing Penalty (veh)									

Network Summary

Network wide Queuing Penalty: 4

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