III-h | TRAFFIC TECHNICAL SUMMARY

The proposed data center project is expected to generate a limited amount of traffic, primarily from employee vehicle trips. The data center buildings are expected to be staffed 24/7 with three eight-hour shifts daily. Nighttime shifts typically have lower staffing levels compared to daytime shifts, which is expected to result in a proportionally lower PM Peak Hour generation. Furthermore, most of these trips will be from passenger vehicles, with heavy-duty vehicle traffic for deliveries and maintenance being infrequent. In typical operation, heavy-duty vehicle traffic is anticipated to be limited to 6-8 deliveries a day.

Typical Operations

Based on the *ITE Trip Generation Manual, 12th Edition*, the traffic impact analysis will apply **Land Use Code 160 – Data Center**, as it provides multiple recent data points for trip generation. The estimated site-generated trips during the generator peak hours are as follows:

- **North Campus:**
  - AM Peak Hour: **130 trips**
  - PM Peak Hour: **115 trips**
- **South Campus:**
  - AM Peak Hour: **65 trips**
  - PM Peak Hour: **58 trips**

Total for Entire Site:

- AM Peak Hour: **195 trips**
- PM Peak Hour: **173 trips**

Tables 1 and 2 present the detailed trip generation calculations for the North Campus and South Campus, respectively.

Table 1: North Campus Trips				
ITE Code	160 - Data Center			
Number of 1000 Sq Ft GFA	1,439			
Peak Hour	AM		PM	
Trip Generation Rate	0.09		0.08	
Total Number of Trips	130		115	
Trips	Enter	Exit	Enter	Exit
Directional Distribution	75%	25%	35%	65%
Number of Trips per Direction	97	33	40	75

Table 2: South Campus Trips				
ITE Code	160 - Data Center			
Number of 1000 Sq Ft GFA	720			
Peak Hour	AM		PM	
Trip Generation Rate	0.09		0.08	
Total Number of Trips	65		58	
Trips	Enter	Exit	Enter	Exit
Directional Distribution	75%	25%	35%	65%
Number of Trips per Direction	49	16	20	38

In conclusion, the traffic analysis indicates that Project Double Reed's contribution to overall park traffic is minor. While the STAMP 2016 EIS Update established a threshold exceeding 1,900 PM Peak Hour trips for the full, 1,262-acre STAMP park build-out, the present development is projected to generate only 173 PM Peak Hour trips. This means Project Double Reed accounts for approximately 9.0% of the cumulative traffic volume analyzed in the EIS.

Construction

During construction, temporary traffic management of Crosby Road may be required. The anticipated impact on the overall traffic network is expected to be minimal. All traffic management and temporary traffic control measures, including advance warning signage and the use of trained flaggers to control traffic during deliveries and other construction activities, will be implemented to maintain safe traffic operations for local motorists.