Exhibit 3

Traffic Memorandum



MEMORANDUM

| TO: | Stephanie Eyestone, Eyestone Environmental Madonna Marcelo, Eyestone Environmental | |
|--------------------------|---|-------------------|
| FROM: | Sarah M. Drobis, P.E. Emily Wong, EIT | |
| DATE: | August 16, 2016 | |
| RE: Crossroads | AB 900 Traffic Assessment for Hollywood | Ref: J1308 |

This study presents the analysis to support the application for En vironmental Leadership Development Project for the Crossroads Ho Ilywood project (Project) in the Hollywoo d community of the City of Los Angeles, California (City).

PROJECT LOCATION

Hollywood Crossroads is located at 6701 Sunset Boulevard (Project Site) and is made up of 29 individual parcels bo unded by Selma Avenu e to the nor th, a chur ch and school to the east, Sunset Boulevard to the south, and Highland Avenue t o the west. The Project Site is currently occupied with Crossroads of the Wor Id, multi-family residential use s, a s well as commercial and office u ses. The su rrounding area is urbanized and includes historic and modern low to high-rise buildings, occupied b y neighborhood-serving commercia I, tourist and entertainment-related commercial uses, o ffices, hotels, educatio nal institutio ns, and single-family and multi-family residences.

The Project Site is located less than one mile from the Hollywood Freeway (US 101), which provides regional tran sportation be tween downtown Los A ngeles and the San Fe rnando Valley. The Project Site is served by Sunset Boulevard and Highland Avenue, both of which are designated Avenue I in *Draft Mobility Plan 2035 – An Element of the General Plan* (Los Angeles Department of City Planning, May 20 15). The Project Site is also located within 1,500 feet of the Los Angeles County Metropolitan Tr ansportation Authority's (Metro) Hollywood/Highland Station. The Hollywood/Highland Station provides service t o the Metro Red Line subway, which travels between Union Station in downtown Los Angeles and North Hollywood in the San Fernando Valley at 10-minute intervals throughout the day. Bicycle routes with shared lane markings, or "sharrows", are located adjacent to the Project Site on Selma Avenue.

Ms. Stephanie Eyestone and Ms. Madonna Marcelo August 16, 2016 Page 2

PROJECT DESCRIPTION

The Project would retai n, preserve, and rehabilitate Crossroads of the World and remove all other existing uses on the Project Site, including surface parking lots and approximate ly 86,947 square feet (sf) of existing floor area consisting of 84 resid ential units (including 80 multi-family dwelling units and two duplexes) and commercial/retail an d office u ses. The Project would integrate Crossroads of the World into a new, mixed-use development t hat would include eight new mi xed-use building s with resid ential, hotel, commerci al/retail, office, entertainment, and restaurant uses. Upon buildout, t he Project (including e xisting uses to be retained) would include approximately 1,432,000 sf of floor area consisting of 950 residential units, 308 hotel rooms, approximately 95,000 sf of office uses, and approximately 18 5,000 sf of commercial/retail uses.

The Project would also include vehicular and pedestrian circulation improvements, including the realignment of Las Palmas Avenu e between Selm a Avenue and Sunset Boulevard, as well as the establishment of a new pedestrian pas sageway. La s Palmas Avenue bet ween Selma Avenue and Sunset Boulevard wou Id be shifted to the west to align with the street segment south of Su nset Boulevard. This im provement would align the currently off-set int ersection of Las Palmas Avenue & Sunset Boulevard. The Project a Iso propose s to construct a new pedestrian walkway that extends diagonally from Sun set Boulevard along the frontag e Crossroads of the World to the corner of Highland Avenue & Selma Avenue.

SITE ACCESS AND CIRCULATION

Vehicular access to the Project would be provided via several drivewa ys located on Highland Avenue, McCadden Place, Las Palmas Avenue, and Selma Avenue. Access to Parcel A would be provided via drivewa ys on Highland Avenue, McCadden Place, and Selma Avenue, access to Parcel B would be provided via driveways on McCadd en Place and Las Palmas Avenue e, access to Parcel C would be provided via driveways on Las Palmas Avenue, and access to Parcel D would be provided via a driveway on Las Palmas Avenue. Loading areas for Parcel B and Parcel C would also be provided via driveways on Las Palmas Avenue.

As stated a bove, the Project would provide a new pedestrian walkway that extends diagonally from Sunset Boulevard along the frontage of Crossroads of the World to Highland Avenue & Selma Avenue. The ped estrian walkway would be linked through landscaped public walkways and connect the entire Project Site while promoting access from Sunset Boulevard, Las Palmas Avenue, Selma Avenue, and McCadden Place. All e xisting side walks and pedestrian crosswalks adjacent to the Project Site would be retained. Visitors, patrons, and employees arriving by bicycle would have the same access opportunities as pedestrian visitors.

EXISTING TRANSIT SERVICE

The Project Site is located within 1500 feet of the Metro Hollywood/ Highland Station, which provides service to the Metro Red Line subw ay. The Metro Red Line e travels be tween Union Station in downtown Los Angeles and North Hollywood in the San Fernando Valley at 10-minute intervals during the commuter AM and PM peak hours. The Project Site is also served by numerous transit lines, with bus st ops adjacent to the Project Site on Sunset Boulevard and

Ms. Stephanie Eyestone and Ms. Madonna Marcelo August 16, 2016 Page 3

Highland Avenue for Metro Lines 2 and 156/656, as well as the Los Angeles Department of Transportation (LADOT) DASH Hollywood. Additional bus st ops for Metro Lines 212 /312, 217, 222, and 7 80 are loca ted within walking dist ance on Hollywood Boulevard and Hawthorn Avenue.

PROJECT TRIP GENERATION AND VEHICLE MILES TRAVELED (VMT)

The Project trip gener ation estim ates were calculated using published rates from *Trip Generation, 9th Edition* (Institute of Transportation Engineers, 2012) for apartments (ITE 220), high-rise condominiums (ITE 232), hotel (ITE 3 10), general office building (ITE 710), shopping center (ITE 820), supermarket (ITE 850), and high-turnover restaurant (ITE 932). As shown in Table 1, the Project is anticipated to generate 15,005 net new daily weekday trips, including 886 morning peak hour trips (378 inbound, 508 outbound) and 1,281 afternoon peak hour trips (762 inbound, 519 outbound).

The trip type and average trip lengt hs for each land use we re determined using th e California Emissions Estimator Model (Cal EEMod). The trip typ e describes the purpose of the trip generated at each land use, such as residential trips and commercial trips. Residential trip s include home-work (H-W), home-shop (H-S), and hom e-other (H-O). Commercial trips in clude commercial-customer (C-C), commercial-wor k (C-W), an d commerci al-nonwork (C-NW). Th e trip lengths are based on the locat ion and urbanization of the project area. The average trip length of each land u se is the sum of the t rip length o f each trip type multiplied by the percentage of trip type. The trip lengths and percentage of types from CalEEMod are detailed in Table 2.

As shown in Table 2, the average trip length in the Hollywood area as calculated by CalEEMod is 10.5 miles for residential apartment and high-rise condominium uses, 9.7 miles for hotel uses, 10.8 for office uses, 9.1 for restaura nt uses, 9.5 for retail u ses, and 8.7 for supermarket uses. These trip lengths were applied to t he Project trips to develop the total VMT of the Project. As detailed in Table 2, prior to accounting for applicable red uctions, the traffic generated by the Project would total 243, 363 daily VMT, includin g 14,380 VMT during the morning peak hou r (6,903 VMT inbound, 7, 477 VMT o utbound) and 21,337 VMT during the afternoon peak hou r (11,968 VMT inbound, 9,369 VMT outbound). Bicycle routes with shared lane markings, or "sharrows", are also provided adjacent to the Project Site on Selma Avenue.

COMPARABLE PROJECT

The Project is located along two major corridors within the Hollywood community. Both Highland Avenue and Sunset Bo ulevard carry o ver 50,000 vehicles per day on an averag e weekday; thus, the Pr oject will likely attract e xisting trips in the area that are "passing by" on the way to another destination, par ticularly during the weekday morni ng and afternoon peak hour. The pass-by reductions app lied to the retail, super market, quality restaurant, and high-turnover restaurant uses are d erived from surveys p ublished in *Trip Generation Handbook: An ITE Recommended Practice* (ITE, 2003). As shown in Table 3, with a pplication of the pass-by reduction, the traffic generated by the Project would total 206,069 daily VMT, including 12,83 2 VMT during the mornin g peak hour (6,002 VMT inbound, 6,830 VMT outbound) a nd 18,118 VMT during the afternoon peak hour (10,240 VMT inbound, 7,878 outbound). For the purposes

Ms. Stephanie Eyestone and Ms. Madonna Marcelo August 16, 2016 Page 4

of this analysis, the VMT estimates with application of pass-by reduction are assumed as the "comparable project" due to the urbanized environment of the Hollywood area.

PROJECT-RELATED REDUCTIONS

The Project Site is located less than ¼ mile from the Metro Hollywood/Highland Station, therefore, a 15% transit reduction was applied to all land use components of the Project, as allowed by LADOT. In addition, a 10% internal capture reduction was applied to the retail, supermarket, and resta urant uses to account for the synergy of uses within a mixed-use development. As sho wn in Table 4, after a ccounting f or the pass-by, transit, and intern al capture reductions, the traffic generated by the Project would total 166,184 daily VMT, including 10,514 VMT during the morning peak hour (4,879 inbound, 5,635 outbound) and 14,647 VMT during the afternoon peak hour (8,266 inbound, 6,381 outbound). The traffic gener ated by the Project would be approximately 19% less than the comparable project in the Hollywood area.

As part of the Proje ct, a transportati on demand management (TDM) program will b e implemented to reduce the use of single occupant vehicles by increasing the number of trips by walking, bicycle, carpool, vanpool, and transit. The TDM program would include design features, transportation services, education, and incent ives intende d to reduce the amount of single occupant vehicles during commuter peak hours. The TDM program would include the following strategies:

- Promotion and support of carpools and rideshares
- Pedestrian-f riendly environment
- Bicycle amenities (bicycle racks, lockers, showers, etc.)
- Flexible or alternative work schedules
- Education and information on alternative transportation modes
- Transportation Information Center (TIC)
- Integration of a Mobility Hub
- Transportation Management Coordination Program
 - Promote awareness of all available TDM strategies
 - Create Transportation Management Plans (TMP) for employees, residents, and patrons of the Project
 - Guaranteed ride home (GRH) program
 - Online ride-matching and carpool/vanpool program
 - o Preferential parking location for high occupancy vehicles
- Discounted employee/resident transit passes
- Unbundled Parking
- Parking Cash-Out
- Participation in the Hollywood Transportation Management Organization

The implementation of the TDM pro gram will further reduce the VMT of the Project by 10%. As shown in Table 5, with implementation of the TDM program, the traffic generated by the Project would total 149,565 daily VMT, including 9,461 VMT during the morning peak hour (4,390 VMT inbound, 5,071 VMT o utbound) and 13,182 VMT during the afternoon peak hour (7,439 VMT inbound, 5,743 VMT outbound). Thus, the traffic gene rated by t he Project would be approximately 25% less than the comparable project in the Hollywood area.

"INFILL" PROJECT-RELATED TRIP REDUCTIONS

The Project is considered an "infill" project, as it is replacing existing residential and low-density commercial retail and of fice uses with a high-density, mixed -use development. The Project is also sustaining the historical Crossroads of the World. As shown in T able 6, the traffic of the existing uses of the Pr oject Site g enerates ap proximately 26,674 daily VMT, including 2,072 VMT during the mornin g peak hour (1,440 VMT inbound, 632 VMT o utbound) and 2,806 VMT during the afternoon peak hour (1,056 VMT inbound, 1,750 VMT outbound). After accounting for the site-related reductions, the net traffic generated by the existing uses totals approximately 23,338 daily VMT, including 1,777 VMT during the morning peak hour (1,234 VMT inbound, 543 VMT outbound) and 2,443 VMT during the afternoon peak hour (926 inbound, 1,517 outbound), as detailed in Table 7.

TOTAL PROJECT VMT

As detailed in Table 8, the net Project traffic would generate a total of 126,227 daily VMT, including 7,684 VMT during the morning peak hour (3,156 VMT inbound, 4,528 VMT outbound) and 10,739 VMT during the afternoon peak hour (6,153 VMT inbound, 4,226 VMT outbound). In comparison, the traffic of a comparable pro ject in the Hollywood area would generat е approximately 206.609 daily VMT, including 12,832 VMT during the m orning peak hour (6.002 VMT inbound, 6,830 outbound) and 18,118 VMT during the afternoon peak hour (10,240 VMT inbound, 7,878 VMT outbound). Thus, the combined effects of the Proje ct's urban infill location along major corridors, proximity to transit, an d proposed TDM prog ram would reduce the Project's an ticipated V MT by approximately 6 5% as compared to a comparable mixed-use project in the Hollywo od area. Therefore, the Project results in a t least 10% greater transportation efficiency or more.

| TABLE 1 | |
|--|--|
| PROJECT TRIP GENERATION ESTIMATES - HOLLYWOOD CROSSROADS | |

| | ~ | | | | Weekday | | N R / ·· | - |
|---|----------------------|---|--|---|--|--|--|---|
| Land Use | Size | Daily | 4 | A.M. Peak Ho | ur | | P.M. Peak Hou | Ir |
| | | | In | Out | Total | In | Out | Total |
| Trip Generation Rates | | | | | | | | |
| Apartments (ITE 220) | per du | 6.65 | 20% | 80% | 0.51 | 65% | 35% | 0.62 |
| Condomiums (ITE 230) | per du | 5.81 | 17% | 83% | 0.44 | 67% | 33% | 0.52 |
| Hotel (ITE 310) | per room | 8.17 | 61% | 39% | 0.56 | 53% | 47% | 0.59 |
| General Office Building (ITE 710) | per ksf | 11.03 | 88% | 12% | 1.56 | 17% | 83% | 1.49 |
| | per ksf | 42.70 | 62% | 38% | 0.96 | 48% | 52% | 3.71 |
| Shopping Center (ITE 820) | | | 62% | | | | | |
| Supermarket (ITE 850) | per ksf | 102.24 | | 38% | 3.40 | 51% | 49% | 9.48 |
| Quality Restaurant (ITE 931) | per ksf | 89.95 | 55% | 45% | 0.81 | 67% | 33% | 7.49 |
| High-Turnover Restaurant (ITE 932) | per ksf | 127.15 | 55% | 45% | 10.81 | 60% | 40% | 9.85 |
| Proposed Project | | | | | | | | |
| Apartments | 760 du | 5,054 | 78 | 210 299 | 306 165 471 | | | |
| | 760 du | | - | | | (40) | (0.5) | (74) |
| Transit/Walk Adjustment - 15% | | (758) | (12) 66 | (46) 264 | (58) | (46) | (25) | (71) 400 |
| Subtotal - Apartment | | 4,296 | 00 | 204 | 330 | 260 | 140 | 400 |
| Condominiums | 190 du | 1,104 | 14 70 8 | 4 66 33 99 | | | | |
| Transit/Walk Adjustment - 15% | | (166) | (2) | (11) | (13) | (10) | (5) | (15) |
| Subtotal - High-Rise Condominiums | | 938 | 12 | 59 | 71 | 56 | 28 | 84 |
| | | | | | | | 1 | |
| Hotel | 308 du | 2,516 | 105 67 | | 172 96 | | 86 | 182 |
| Transit/Walk Adjustment - 15% | | (377) | (16) | (10) | (26) | (14) | (13) | (27) |
| Subtotal - Hotel | | 2,139 | 89 | 57 | 146 | 82 | 73 | 155 |
| | | _, | | | | | | |
| Office | 95 ksf | 1,048 | 130 18 | | 148 24 | | 118 | 142 |
| Transit/Walk Adjustment - 15% | 55 KOI | (157) | (20) | (2) | (22) | (4) | (17) | (21) |
| Subtotal - Office | | (157) 891 | 110 | (2) 16 | (22) 126 | (4) 20 | 101 | (21) 121 |
| | | 031 | | 10 | 120 | 20 | 101 | 121 |
| Shopping Center | 61.8 ksf | 2,637 | 37 22 5 | | | 110 | 119 | 229 |
| | 01.0 1.81 | | | | (0) | | - | - |
| Transit/Walk Adjustment - 15% | | (396) | (6) | (3) | (9) | (17) | (17) | (34) |
| Internal Capture Adjustment - 10% | | (224) | (3) | (2) | (5) | (9) | (11) | (20) |
| Pass-by Adjustment - 40% | | (807) | (11) | (7) | (18) | (34) | (36) | (70) |
| Subtotal - Retail | | 1,210 | 17 | 10 | 27 | 50 | 55 | 105 |
| Supermarket | 40 ksf | 4,090 | 84 | 52 | 136 103 | 186 379 | | |
| | 40 KSI | | | | | | (20) | (57) |
| Transit/Walk Adjustment - 15% | | (614) | (13) | (7) | (20) | (29) | (28) | (57) |
| Internal Capture Adjustment - 10% | | (348) | (7) | (5) | (12) | (16) | (16) | (32) |
| Pass-by Adjustment - 40% | | (1,251) | (26) | (16) | (42) | (59) | (57) | (116) |
| Subtotal - Supermarket | | 1,877 | 38 | 24 | 62 | 89 | 85 | 174 |
| | | | | | | | | |
| Quality Restaurant | 41.6 ksf | 3,744 | 19 15 3 | 4 | | 209 | 103 | 312 |
| Transit/Walk Adjustment - 15% | | (562) | (3) | (2) | (5) | (31) | (16) | (47) |
| Internal Capture Adjustment - 15% | | (477) | (2) | (2) | (4) | (27) | (13) | (40) |
| Pass-by Adjustment - 10% | | (271) | (1) | (2) | (3) | (15) | (8) | (23) |
| Subtotal - Quality Restaurant | | 2,434 | 13 | 9 | 22 | 136 | 66 | 202 |
| | | 5 000 | 0.40.000 | | | | | |
| High-Turnover Restaurant | 41.6 ksf | 5,293 | | 450 246 164 | | (| (2.2) | (|
| Transit/Walk Adjustment - 15% | | (794) | (37) | (31) | (68) | (37) | (25) | (62) |
| Internal Capture Adjustment - 15% | | (675) | (32) | (25) | (57) | (31) | (21) | (52) |
| Pass-by Adjustment - 20% | | (765) | (36) | (29) | (65) | (36) | (23) | (59) |
| Subtotal - High-Turnover Restaurant | | 3,059 | 143 | 117 | 260 | 142 | 95 | 237 |
| Total - Proposed Project | | 16,844 | 488 | 556 | 1,044 | 835 | 643 | 1,478 |
| Existing Uses to be Removed | | | | | | | | |
| Apartments | 84 du | 559 | 9 | 34 43 3 | 18 52 | | | |
| Apartments Transit/Walk Adjustment - 15% [b] | o u uu | | g (1) | 34 43 3 (5) | | (5) | (2) | (8) |
| Subtotal - Apartments | | (84) 475 | (1) 8 | (5) 29 | (6) 37 | (5) 29 | (3) 15 | (8) 44 |
| Subiolai - Aparuneniis | | 4/0 | 0 | 29 | 3/ | 29 | 15 | 44 |
| | | 873 | 108 15 | | 123 20 | | 00 | 118 |
| Office | 70.1 kof | | 10815 | (7) | 123 20 (18) | (2) | 98 | |
| | 79.1 ksf | | | | | (3) | (15) | (18) |
| Transit/Walk Adjustment - 15% [b] | 79.1 ksf | (131) | (16) | (2) | | | 02 | |
| Transit/Walk Adjustment - 15% [b] | 79.1 ksf | | | (2) 13 | 105 | 17 | 83 | 100 |
| Transit/Walk Adjustment - 15% [b] Subtotal - Office | | (131) 742 | (16) 92 | 13 | | | 83 | 100 |
| Transit/Walk Adjustment - 15% [b] Subtotal - Office Shopping Center [d] | 79.1 ksf 26.7 ksf | (131) 742 1,140 | (16) 92 16 10 2 | 13 6 48 51 99 | 105 | 17 | | |
| Transit/Walk Adjustment - 15% [b] Subtotal - Office Shopping Center [d] Transit/Walk Adjustment - 15% [b] | | (131) 742 1,140 (171) | (16) 92 16 10 2 (2) | 13 6 48 51 99 <i>(2)</i> | 105 (4) | (7) | (8) | (15) |
| Transit/Walk Adjustment - 15% [b] Subtotal - Office Shopping Center [d] Transit/Walk Adjustment - 15% [b] Pass-by Adjustment - 40% [c] | | (131) 742 1,140 (171) (388) | (16) 92 16 10 2 (2) (6) | 13 6 48 51 99 (2) (3) | (4) (9) | (7) (16) | (8) (18) | (15) (34) |
| Subtotal - Office Shopping Center [d] Transit/Walk Adjustment - 15% [b] | | (131) 742 1,140 (171) | (16) 92 16 10 2 (2) | 13 6 48 51 99 <i>(2)</i> | 105 (4) | (7) | (8) | (15) |
| Transit/Walk Adjustment - 15% [b] Subtotal - Office Shopping Center [d] Transit/Walk Adjustment - 15% [b] Pass-by Adjustment - 40% [c] Subtotal - Shopping Center | 26.7 ksf | (131) 742 1,140 (171) (388) 581 | (16) 92 16 10 2 (2) (6) 8 | 13 6 48 51 99 (2) (3) 5 | (4) (9) | (7) (16) | (8) (18) | (15) (34) |
| Transit/Walk Adjustment - 15% [b] Subtotal - Office Shopping Center [d] Transit/Walk Adjustment - 15% [b] Pass-by Adjustment - 40% [c] Subtotal - Shopping Center High-Turnover Restaurant | | (131) 742 1,140 (171) (388) 581 60 | (16) 92 16 10 2 (2) (6) 8 3 2 5 3 | 13 6 48 51 99 (2) (3) 5 2 5 | (4) (9) 13 | (7) (16) 25 | (8) (18) 25 | (15) (34) 50 |
| Transit/Walk Adjustment - 15% [b] Subtotal - Office Shopping Center [d] Transit/Walk Adjustment - 15% [b] Pass-by Adjustment - 40% [c] Subtotal - Shopping Center High-Turnover Restaurant Transit/Walk Adjustment - 15% [b] | 26.7 ksf | (131) 742 1,140 (171) (388) 581 60 (9) | (16) 92 16 10 2 (2) (6) 8 3 2 5 3 0 | 13 6 48 51 99 (2) (3) 5 2 5 (1) | (4) (9) 13 (1) | 17 (7) (16) 25 0 | (8) (18) 25 (1) | (15) (34) 50 (1) |
| Transit/Walk Adjustment - 15% [b] Subtotal - Office Shopping Center [d] Transit/Walk Adjustment - 15% [b] Pass-by Adjustment - 40% [c] Subtotal - Shopping Center High-Turnover Restaurant Transit/Walk Adjustment - 15% [b] Pass-by Adjustment - 20% [c] | 26.7 ksf | (131) 742 1,140 (171) (388) 581 60 (9) (10) | (16) 92 16 10 2 (2) (6) 8 3 2 5 3 0 (1) | 13 6 48 51 99 (2) (3) 5 2 5 (1) 0 | (4) (9) 13 (1) (1) | 17 (7) (16) 25 0 (1) | (8) (18) 25 (1) 0 | (15) (34) 50 (1) (1) |
| Transit/Walk Adjustment - 15% [b] Subtotal - Office Shopping Center [d] Transit/Walk Adjustment - 15% [b] Pass-by Adjustment - 40% [c] Subtotal - Shopping Center High-Turnover Restaurant Transit/Walk Adjustment - 15% [b] | 26.7 ksf | (131) 742 1,140 (171) (388) 581 60 (9) | (16) 92 16 10 2 (2) (6) 8 3 2 5 3 0 | 13 6 48 51 99 (2) (3) 5 2 5 (1) | (4) (9) 13 (1) | 17 (7) (16) 25 0 | (8) (18) 25 (1) | (15) (34) 50 (1) |
| Transit/Walk Adjustment - 15% [b] Subtotal - Office Shopping Center [d] Transit/Walk Adjustment - 15% [b] Pass-by Adjustment - 40% [c] Subtotal - Shopping Center High-Turnover Restaurant Transit/Walk Adjustment - 15% [b] Pass-by Adjustment - 20% [c] | 26.7 ksf | (131) 742 1,140 (171) (388) 581 60 (9) (10) | (16) 92 16 10 2 (2) (6) 8 3 2 5 3 0 (1) | 13 6 48 51 99 (2) (3) 5 2 5 (1) 0 | (4) (9) 13 (1) (1) | 17 (7) (16) 25 0 (1) | (8) (18) 25 (1) 0 | (15) (34) 50 (1) (1) |
| Transit/Walk Adjustment - 15% [b] Subtotal - Office Shopping Center [d] Transit/Walk Adjustment - 15% [b] Pass-by Adjustment - 40% [c] Subtotal - Shopping Center | 26.7 ksf | (131) 742 1,140 (171) (388) 581 60 (9) (10) 41 | (16) 92 16 10 2 (2) (6) 8 3 2 5 3 0 (1) 2 | 13 6 48 51 99 (2) (3) 5 2 5 (1) 0 1 | (4) (9) 13 (1) (1) (1) 3 | 17 (7) (16) 25 0 (1) 2 | (8) (18) 25 (1) 0 1 | (15) (34) 50 (1) (1) 3 |

| | Size / Average Trip Length [a] | Weekday | | | | | | | |
|--|-----------------------------------|---------|----------------|-------|--------|----------------|-------|--------|--|
| Land Use | | Daily | A.M. Peak Hour | | | P.M. Peak Hour | | | |
| | | Daily | In | Out | Total | In | Out | Total | |
| Trip Generation (with No Reductions) | | | | | | | | | |
| Apartments | 760 du | 5,054 | 78 | 310 | 388 | 306 | 165 | 471 | |
| High-Rise Condominiums | 190 du | 1.104 | 14 | 70 | 84 | 66 | 33 | 99 | |
| Hotel | 308 du | 2.516 | 105 | 67 | 172 | 96 | 86 | 182 | |
| Office | 95 ksf | 1.048 | 130 | 18 | 148 | 24 | 118 | 142 | |
| Shopping Center | 61.8 ksf | 2,637 | 37 | 22 | 59 | 110 | 119 | 229 | |
| Supermarket | 40 ksf | 4,090 | 84 | 52 | 136 | 193 | 186 | 379 | |
| Quality Restaurant | 41.6 ksf | 3,744 | 19 | 15 | 34 | 209 | 103 | 312 | |
| High-Turnover Restaurant | 41.6 ksf | 5,293 | 248 | 202 | 450 | 246 | 164 | 410 | |
| Total - Proposed Project Trip Generation | | 25,486 | 715 | 756 | 1,471 | 1,250 | 974 | 2,224 | |
| VMT (with No Reductions) | | | | | | | | | |
| Apartments | 10.5 miles | 53,067 | 819 | 3,255 | 4,074 | 3,213 | 1,733 | 4,946 | |
| High-Rise Condominiums | 10.6 miles | 11,702 | 148 | 742 | 890 | 700 | 350 | 1,050 | |
| Hotel | 9.7 miles | 24,405 | 1,019 | 650 | 1,669 | 931 | 834 | 1,765 | |
| Office | 10.8 miles | 11,318 | 1,404 | 194 | 1,598 | 259 | 1,274 | 1,533 | |
| Shopping Center | 9.5 miles | 25,052 | 352 | 209 | 561 | 1,045 | 1,131 | 2,176 | |
| Supermarket | 8.7 miles | 35,583 | 731 | 452 | 1,183 | 1,679 | 1,618 | 3,297 | |
| Quality Restaurant | 9.1 miles | 34,070 | 173 | 137 | 310 | 1,902 | 937 | 2,839 | |
| High-Turnover Restaurant | 9.1 miles | 48,166 | 2,257 | 1,838 | 4,095 | 2,239 | 1,492 | 3,731 | |
| Subtotal - Proposed Project VMT | | 243,363 | 6,903 | 7,477 | 14,380 | 11,968 | 9,369 | 21,337 | |

 TABLE 2

 VEHICLE MILES TRAVELED (VMT) - HOLLYWOOD CROSSROADS - CONVERSION OF PROJECT TRIPS TO VMT

[a] Average trip lengths based on CalEEMod assumptions

| TABLE 3 |
|--|
| VEHICLE MILES TRAVELED (VMT) - HOLLYWOOD CROSSROADS - COMPARABLE PROJECT |

| | | Weekday | | | | | | | | |
|--|------------------------|---|--|---|--|--|--|---|--|--|
| Land Use | Reduction | Daily | A.M. Peak Hour | | | P.M. Peak Hour | | | | |
| | | Daily | In | Out | Total | In | Out | Total | | |
| Pass-by Trip Reductions | | | | | | | | | | |
| Apartments | 0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| High-Rise Condominiums | 0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Hotel | 0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Office | 0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Shopping Center | 40% | (1,055) | (15) | (9) | (24) | (44) | (48) | (92) | | |
| Supermarket | 40% | (1,636) | (34) | (21) | (54) | (77) | (74) | (152) | | |
| Quality Restaurant | 40 % | (374) | (34) | (21) | (34) | (21) | (14) | (132) | | |
| High-Turnover Restaurant | 20% | (1,059) | (50) | (40) | (90) | (21) | (33) | (82) | | |
| Subtotal - Pass-by Trip Reduction | 2070 | (4,124) | (101) | (72) | (171) | (191) | (165) | (357) | | |
| | | | | | | | | | | |
| Total Project Trips with Pass-by Reduction | | 21,362 | 614 | 684 | 1,300 | 1,059 | 809 | 1,867 | | |
| | | 21,362 | 614 | 684 | 1,300 | 1,059 | 809 | 1,867 | | |
| Pass-by VMT Reduction | 0% | | | | | | | | | |
| Pass-by VMT Reduction Apartments | 0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Pass-by VMT Reduction Apartments High-Rise Condominiums | 0% | 0 | 0 0 | 0 | 0 | 0 | 0 | 0 | | |
| Pass-by VMT Reduction Apartments High-Rise Condominiums Hotel | 0% 0% | 0 0 0 | 0 0 0 | 0 0 0 | 0 0 0 | 0 0 0 | 0 0 0 | 0 0 0 | | |
| Pass-by VMT Reduction Apartments High-Rise Condominiums Hotel Office | 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 | | |
| Pass-by VMT Reduction Apartments High-Rise Condominiums Hotel Office Shopping Center | 0% 0% 40% | 0 0 0 (10,021) | 0 0 0 (141) | 0 0 0 (84) | 0 0 0 (225) | 0 0 0 (418) | 0 0 0 (452) | 0 0 0 0 (870) | | |
| Pass-by VMT Reduction Apartments High-Rise Condominiums Hotel Office Shopping Center Supermarket | 0% 0% 40% 40% | 0 0 0 (10,021) (14,233) | 0 0 0 (141) (292) | 0 0 0 (84) (181) | 0 0 0 (225) (473) | 0 0 0 (418) (672) | 0 0 0 (452) (647) | 0 0 0 (870) (1,319) | | |
| Pass-by VMT Reduction Apartments High-Rise Condominiums Hotel Office Shopping Center Supermarket Quality Restaurant | 0% 0% 40% 40% | 0 0 0 (10,021) (14,233) (3,407) | 0 0 0 (141) (292) (17) | 0 0 0 (84) (181) (14) | 0 0 0 (225) (473) (31) | 0 0 0 (418) (672) (190) | 0 0 0 (452) (647) (94) | 0 0 0 (870) (1,319) (284) | | |
| Pass-by VMT Reduction Apartments High-Rise Condominiums Hotel Office Shopping Center Supermarket Quality Restaurant High-Turnover Restaurant | 0% 0% 40% 40% | 0 0 0 (10,021) (14,233) (3,407) (9,633) | 0 0 0 (141) (292) (17) (451) | 0 0 0 (84) (181) (14) (368) | 0 0 0 (225) (473) (31) (819) | 0 0 (418) (672) (190) (448) | 0 0 0 (452) (647) (94) (298) | 0 0 0 (870) (1,319) (284) (746) | | |
| Pass-by VMT Reduction Apartments High-Rise Condominiums Hotel Office Shopping Center Supermarket Quality Restaurant | 0% 0% 40% 40% | 0 0 0 (10,021) (14,233) (3,407) | 0 0 0 (141) (292) (17) | 0 0 0 (84) (181) (14) | 0 0 0 (225) (473) (31) | 0 0 0 (418) (672) (190) | 0 0 0 (452) (647) (94) | 0 0 0 (870) (1,319) (284) | | |

| TABLE 4 | |
|---|--|
| VEHICLE MILES TRAVELED (VMT) - HOLLYWOOD CROSSROADS - PROJECT AND SITE-RELATED REDUCTIONS | |

| and Use | | | | | Weekday | | | | | | | |
|---|---|---|--|--|--|---|--|---|--|--|--|--|
| | Reduction | D-11-1 | A.M. Peak Hour | | | P.M. Peak Hour | | | | | | |
| | | Daily | In | Out | Total | In | Out | Total | | | | |
| ransit/Walk-In Trip Reductions | | | | | | | | | | | | |
| Apartments | 15% | (758) | (12) | (47) | (59) | (46) | (25) | (71) | | | | |
| High-Rise Condominiums | 15% | (166) | (2) | (11) | (13) | (10) | (5) | (15) | | | | |
| Hotel | 15% | (377) | (16) | (10) | (26) | (14) | (13) | (27) | | | | |
| Office | 15% | (157) | (20) | (3) | (23) | (4) | (18) | (22) | | | | |
| Shopping Center | 15% | (137) | (20) | (3) | | (10) | (10) | (22) | | | | |
| | | | | | (5) | | | | | | | |
| Supermarket | 15% | (368) | (8) | (5) | (13) | (17) | (17) | (34) | | | | |
| Quality Restaurant | 15% | (506) | (3) | (2) | (5) | (28) | (14) | (42) | | | | |
| High-Turnover Restaurant | 15% | (635) | (30) | (24) | (54) | (30) | (20) | (50) | | | | |
| Subtotal - Transit/Walk-In Trip Reduction | | (3,204) | (94) | (104) | (198) | (159) | (123) | (282 | | | | |
| otal Project Trips with Transit/Walk-In Reduction Transit/Walk-In Percentage Reduction from Comparable Project | | 18,158 15.0% | 520 | 580 | 1,102 15.2% | 900 | 686 | 1,585 15.1% | | | | |
| | T | 15.0% | | | 15.2 % | | | 15.17 | | | | |
| ransit/Walk-In VMT Reductions | | | | | | | | | | | | |
| Apartments | 15% | (7,960) | (123) | (488) | (611) | (482) | (260) | (742 | | | | |
| High-Rise Condominiums | 15% | (1,755) | (22) | (111) | (133) | (105) | (53) | (158 | | | | |
| Hotel | 15% | (3,661) | (153) | (98) | (251) | (140) | (125) | (265 | | | | |
| Office | 15% | (1,698) | (211) | (29) | (240) | (39) | (191) | (230 | | | | |
| Shopping Center | 15% | (2,255) | (32) | (19) | (51) | (94) | (102) | (196 | | | | |
| Supermarket | 15% | (3,203) | (66) | (41) | (107) | (151) | (146) | (297 | | | | |
| Quality Restaurant | 15% | (4,599) | (23) | (18) | (41) | (257) | (126) | (383 | | | | |
| High-Turnover Restaurant | 15% | | (23) | (221) | (492) | (269) | (120) | (303 | | | | |
| Subtotal - Transit/Walk-In VMT Reduction | 15% | (5,780) (30,911) | (271) (901) | (1,025) | (492) | (1,537) | (1,182) | (440 | | | | |
| Total Project VMT with Transit/Walk-In Reduction | | 175,158 | 5,101 | 5,805 | 10,906 | 8,703 | 6,696 | | | | | |
| otal Project VMT with Transit/Walk-In Reduction Transit/Walk-In Percentage Reduction from Comparable Project | | 175,158 15.0% | 5,101 | 5,805 | 10,906 15.0% | 8,703 | 6,696 | | | | | |
| ransit/Walk-In Percentage Reduction from Comparable Project | | 15.0% | | 5,805 | 15.0% | | | 15.0% | | | | |
| ransit/Walk-In Percentage Reduction from Comparable Project | 0% | | 5,101 0 | 5,805 0 | | 8,703 0 | 6,696 0 | | | | | |
| ransit/Walk-In Percentage Reduction from Comparable Project | 0% | 15.0% | | | 15.0% | | | 15.09 | | | | |
| Transit/Walk-In Percentage Reduction from Comparable Project nternal Capture Trip Reductions Apartments | | 15.0% 0 | 0 | 0 | 15.0% 0 | 0 | 0 | 15.0 9 | | | | |
| Transit/Walk-In Percentage Reduction from Comparable Project Internal Capture Trip Reductions Apartments High-Rise Condominiums Hotel | 0% 0% | 15.0% 0 0 | 0 | 0 | 15.0% 0 0 | 0 | 0 | 15.09 0 0 | | | | |
| Transit/Walk-In Percentage Reduction from Comparable Project Internal Capture Trip Reductions Apartments High-Rise Condominiums Hotel Office | 0% 0% 0% | 0 0 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 15.0% 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 15.09 0 0 0 | | | | |
| Transit/Walk-In Percentage Reduction from Comparable Project Internal Capture Trip Reductions Apartments High-Rise Condominiums Hotel Office Shopping Center | 0% 0% 10% | 15.0% 0 0 0 0 (135) | 0 0 0 0 (2) | 0 0 0 0 (1) | 0 0 0 0 0 (3) | 0 0 0 0 (6) | 0 0 0 0 (6) | 0 0 0 0 0 (12) | | | | |
| Transit/Walk-In Percentage Reduction from Comparable Project ternal Capture Trip Reductions Apartments High-Rise Condominiums Hotel Office Shopping Center Supermarket | 0% 0% 0% 10% 10% | 0 0 0 0 (135) (209) | 0 0 0 0 (2) (4) | 0 0 0 (1) (3) | 0 0 0 0 0 (3) (7) | 0 0 0 (6) (10) | 0 0 0 (6) (10) | 0 0 0 0 (12) (20) | | | | |
| Transit/Walk-In Percentage Reduction from Comparable Project ternal Capture Trip Reductions Apartments High-Rise Condominiums Hotel Office Shopping Center Supermarket Quality Restaurant | 0% 0% 10% 10% 10% | 0 0 0 (135) (209) (286) | 0 0 0 (2) (4) (1) | 0 0 0 (1) (3) (1) | 0 0 0 0 (3) (7) (2) | 0 0 0 (6) (10) (16) | 0 0 0 (6) (10) (8) | 0 0 0 0 (12) (20) (24) | | | | |
| Transit/Walk-In Percentage Reduction from Comparable Project | 0% 0% 0% 10% 10% | 0 0 0 0 (135) (209) (286) (360) | 0 0 0 (2) (4) (1) (17) | 0 0 0 (1) (3) (1) (14) | 0 0 0 (3) (7) (2) (31) | 0 0 0 (6) (10) (16) (17) | 0 0 0 (6) (10) (8) (11) | 0 0 0 (12) (20) (24) (28) | | | | |
| Transit/Walk-In Percentage Reduction from Comparable Project ternal Capture Trip Reductions Apartments High-Rise Condominiums Hotel Office Shopping Center Supermarket Quality Restaurant | 0% 0% 10% 10% 10% | 0 0 0 (135) (209) (286) | 0 0 0 (2) (4) (1) | 0 0 0 (1) (3) (1) | 0 0 0 0 (3) (7) (2) | 0 0 0 (6) (10) (16) | 0 0 0 (6) (10) (8) | 0 | | | | |
| Transit/Walk-In Percentage Reduction from Comparable Project | 0% 0% 10% 10% 10% | 0 0 0 0 (135) (209) (286) (360) | 0 0 0 (2) (4) (1) (17) | 0 0 0 (1) (3) (1) (14) | 0 0 0 (3) (7) (2) (31) | 0 0 0 (6) (10) (16) (17) | 0 0 0 (6) (10) (8) (11) | 0 0 0 (12) (20) (24) (28) | | | | |
| Transit/Walk-In Percentage Reduction from Comparable Project Apartments High-Rise Condominiums Hotel Office Shopping Center Supermarket Quality Restaurant High-Turnover Restaurant Subtotal - Internal Capture Trip Reduction Total Project Trips with Transit/Walk-In & Internal Capture Reduction Transit/Walk-In & Internal Capture Percentage Reduction from Comparable | 0% 0% 10% 10% 10% | 0 0 0 (135) (209) (286) (360) (990) 17,168 | 0 0 0 (2) (4) (1) (17) (24) | 0 0 0 (1) (3) (1) (14) (19) | 0 0 0 0 (3) (7) (2) (31) (43) 1,059 | 0 0 (6) (10) (16) (17) (49) | 0 0 (6) (10) (8) (11) (35) | 0 0 0 (12; (20; (24; (28; (24; (28; (24; (28; (24; (28; (24; (28; (24; (28; (24; (26; (24; (26; (24; (26; (24; (26; (26; (26; (26; (26; (26; (26; (26 | | | | |
| Transit/Walk-In Percentage Reduction from Comparable Project | 0% 0% 10% 10% 10% 10% | 0 0 0 (135) (209) (286) (360) (990) 17,168 19.6% | 0 0 0 (2) (4) (1) (17) (24) 496 | 0 0 0 (1) (3) (1) (14) (19) | 0 0 0 0 (3) (7) (2) (31) (43) 1,059 18.5% | 0 0 (6) (10) (16) (17) (49) | 0 0 (6) (10) (8) (11) (35) 651 | 0 0 0 (12) (20) (24) (28) (84) | | | | |
| Transit/Walk-In Percentage Reduction from Comparable Project | 0% 0% 10% 10% 10% | 0 0 0 (135) (209) (286) (360) (360) (390) 17,168 19.6% 0 | 0 0 0 (2) (4) (1) (17) (24) 496 0 | 0 0 0 (1) (3) (1) (14) (19) 561 0 | 0 0 0 0 (3) (7) (2) (31) (43) 1,059 18.5% 0 | 0 0 0 (6) (10) (16) (17) (49) 851 0 | 0 0 0 (6) (10) (8) (11) (35) 651 0 | 0 0 0 (12) (20) (24) (24) (24) (24) (24) (24) (24) (24 | | | | |
| Transit/Walk-In Percentage Reduction from Comparable Project | 0% 0% 10% 10% 10% | 0 0 0 (135) (209) (286) (360) (990) 17,168 19.6% 0 0 0 | 0 0 0 (2) (4) (1) (17) (24) 496 | 0 0 0 (1) (3) (1) (14) (19) 561 0 0 | 0 0 0 0 (3) (7) (2) (31) (43) 1,059 18.5% 0 0 | 0 0 0 (6) (10) (16) (17) (49) 851 0 0 | 0 0 0 (6) (10) (8) (11) (35) 651 0 0 | 0 0 0 (12) (20) (24) (24) (28) (84) 1,501 19.69 | | | | |
| Transit/Walk-In Percentage Reduction from Comparable Project | 0% 0% 10% 10% 10% 10% Project | 0 0 0 0 (135) (209) (286) (360) (990) 17,168 19.6% 0 0 0 0 | 0 0 0 (2) (4) (1) (17) (24) 496 | 0 0 0 (1) (3) (1) (14) (19) 561 0 0 0 | 0 0 0 0 (3) (7) (2) (31) (43) 1,059 18.5% | 0 0 0 (6) (10) (16) (17) (49) 851 0 0 0 | 0 0 0 (6) (10) (8) (11) (35) 651 0 0 0 | 0 0 0 (12) (20) (24) (28) (84) 1,501 19.69 | | | | |
| Transit/Walk-In Percentage Reduction from Comparable Project Apartments High-Rise Condominiums Hotel Office Shopping Center Supermarket Quality Restaurant High-Turnover Restaurant Subtotal - Internal Capture Trip Reduction Total Project Trips with Transit/Walk-In & Internal Capture Reduction Transit/Walk-In & Internal Capture Percentage Reduction from Comparable Internal Capture VMT Reductions Apartments High-Rise Condominiums Hotel Office | 0% 0% 10% 10% 10% 10% Project | 0 0 0 (135) (209) (286) (360) (990) 17,168 19.6% | 0 0 0 (2) (4) (1) (17) (24) 496 0 0 0 0 0 | 0 0 0 (1) (3) (1) (14) (14) (19) 561 0 0 0 0 0 | 0 0 0 (3) (7) (2) (31) (43) 1,059 18.5% 0 0 0 0 0 | 0 0 0 (6) (10) (16) (17) (49) 851 851 0 0 0 0 0 | 0 0 0 (6) (10) (8) (11) (35) 651 0 0 0 0 0 | 0 0 0 0 (12) (20) (24) (28) (24) (28) (24) (28) (24) (28) (24) (28) (24) (28) (29) (24) (29) (24) (29) (29) (29) (29) (29) (29) (29) (29 | | | | |
| Transit/Walk-In Percentage Reduction from Comparable Project | 0% 0% 0% 10% 10% 10% | 0 0 0 (135) (209) (286) (360) (990) 17,168 19.6% 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 (2) (4) (1) (17) (24) 496 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 (1) (3) (1) (14) (19) 561 561 0 0 0 0 0 0 0 (11) | 0 0 0 0 (3) (7) (2) (31) (43) 1,059 18.5% 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 (6) (10) (16) (17) (49) 851 851 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 (6) (10) (8) (11) (35) 651 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 2 4 9 6 9 1,501 19.69 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 2 2 0 1 2 2 0 1 2 4 1 9.69 1 1 9.69 1 9.69 1 9.69 1 9.69 1 9.69 1 9.69 1 9.69 1 9.69 1 9.69 1 9.69 1 9.69 1 9.69 1 1 9.69 1 1 9.69 1 1 9.69 1 1 9.69 1 1 1 9.69 1 1 1 1 9.69 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | |
| Transit/Walk-In Percentage Reduction from Comparable Project | 0% 0% 10% 10% 10% 10% | 0 0 0 0 (135) (209) (286) (360 | 0 0 0 (2) (4) (1) (17) (24) 496 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 (1) (3) (1) (14) (19) 561 561 0 0 0 0 0 0 0 (11) (23) | 15.0% 0 0 0 0 0 (3) (7) (2) (31) (43) 1,059 18.5% 0 0 0 0 0 0 0 0 (29) (60) | 0 0 0 (6) (10) (16) (17) (49) 851 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 (6) (10) (8) (11) (35) 651 651 0 0 0 0 0 (58) (83) | 0 0 0 (12) (20) (24) (24) (24) (24) (24) (24) (24) (24 | | | | |
| Transit/Walk-In Percentage Reduction from Comparable Project | 0% 0% 0% 10% 10% 10% 0% 0% 0% 0% 0% 0% 0% 0% 10% 1 | 0 0 0 0 (135) (209) (286) (360) (990) 17,168 19.6% 17,168 19.6% 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 (2) (4) (1) (17) (24) 496 0 0 0 0 0 0 0 0 0 (18) (37) (13) | 0 0 0 (1) (3) (1) (14) (19) 561 561 0 0 0 0 0 0 (11) (23) (11) | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 (6) (10) (16) (17) (49) 851 0 0 0 0 0 0 0 53) (86) (146) | 0 0 0 (6) (10) (8) (11) (35) 651 651 0 0 0 0 0 0 0 0 0 0 0 58) (83) (72) | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | | |
| Transit/Walk-In Percentage Reduction from Comparable Project Internal Capture Trip Reductions Apartments High-Rise Condominiums Hotel Office Shopping Center Supermarket Quality Restaurant High-Turnover Restaurant Subtotal - Internal Capture Trip Reduction Total Project Trips with Transit/Walk-In & Internal Capture Reduction from Comparable Internal Capture VMT Reductions Apartments High-Rise Condominiums Hotel Office Shopping Center Supermarket Quality Restaurant High-Rise Condominiums Hotel Office Shopping Center Supermarket Quality Restaurant High-Turnover Restaurant | 0% 0% 10% 10% 10% 10% | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 (2) (4) (1) (17) (24) 496 0 0 0 0 0 0 0 (18) (37) (13) (154) | 0 0 0 (1) (3) (1) (14) (19) 561 561 0 0 0 0 0 (11) (23) (11) (125) | 0 0 0 0 0 0 0 0 0 (3) (7) (2) (31) (43) (43) 1,059 18.5% 0 0 0 0 0 0 0 0 0 0 0 (29) (60) (24) (279) | 0 0 0 (6) (10) (16) (17) (49) 851 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 (6) (10) (8) (11) (35) 651 651 0 0 0 0 0 0 588 (83) (72) (102) | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | | |
| Transit/Walk-In Percentage Reduction from Comparable Project | 0% 0% 0% 10% 10% 10% 0% 0% 0% 0% 0% 0% 0% 0% 10% 1 | 0 0 0 0 (135) (209) (286) (360) (990) 17,168 19.6% 17,168 19.6% 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 (2) (4) (1) (17) (24) 496 0 0 0 0 0 0 0 0 0 (18) (37) (13) | 0 0 0 (1) (3) (1) (14) (19) 561 561 0 0 0 0 0 0 (11) (23) (11) | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 (6) (10) (16) (17) (49) 851 0 0 0 0 0 0 0 53) (86) (146) | 0 0 0 (6) (10) (8) (11) (35) 651 651 0 0 0 0 0 0 0 0 0 0 0 58) (83) (72) | 0 0 0 0 0 0 0 0 0 0 0 19.6 19.6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | | |

| TABLE 5 |
|---|
| VEHICLE MILES TRAVELED (VMT) - HOLLYWOOD CROSSROADS - PROJECT AND SITE-RELATED REDUCTIONS & TDM |

| | | Weekday | | | | | | | |
|---|--|--|--|---|--|---|--|--|--|
| Land Use | Reduction | Daily | A.M. Peak Hour | | | P.M. Peak Hour | | | |
| | | Daily | In | Out | Total | In | Out | Total | |
| TDM Trip Reductions | | | | | | | | | |
| Apartments | 10% | (430) | (7) | (26) | (33) | (26) | (14) | (40) | |
| High-Rise Condominiums | 10% | (94) | (1) | (6) | (7) | (6) | (3) | (9) | |
| Hotel | 10% | (214) | (9) | (6) | (15) | (8) | (7) | (15) | |
| Office | 10% | (89) | (11) | (2) | (13) | (2) | (10) | (12) | |
| Shopping Center | 10% | (121) | (2) | (1) | (3) | (5) | (5) | (10) | |
| Supermarket | 10% | (188) | (4) | (2) | (6) | (9) | (9) | (18) | |
| Quality Restaurant | 10% | (258) | (1) | (1) | (2) | (14) | (7) | (21) | |
| High-Turnover Restaurant | 10% | (324) | (15) | (12) | (27) | (15) | (10) | (25) | |
| Subtotal - Internal Capture Trip Reduction | | (1,718) | (50) | (56) | (106) | (85) | (65) | (150) | |
| Total Project Trips with Transit/Walk-In, Internal Capture & TDM Reduction Transit/Walk-In, Internal Capture & TDM Percentage Reduction from Compa | able Project | 15,450 27.7% | 446 | 505 | 953 26.7% | 766 | 586 | 1,351 27.6% | |
| Total Project Trips with Transit/Walk-In, Internal Capture & TDM Reduction | rable Project | 15,450 | 446 | 505 | | 766 | 586 | | |
| Total Project Trips with Transit/Walk-In, Internal Capture & TDM Reduction | - | 15,450 27.7% | | | 26.7% | | 586 | 27.6% | |
| Total Project Trips with Transit/Walk-In, Internal Capture & TDM Reduction Transit/Walk-In, Internal Capture & TDM Percentage Reduction from Compan Transit/Walk-In VMT Reductions Apartments | 10% | 15,450 27.7% (4,511) | (70) | 505 (277) | 26.7% (347) | (273) | (147) | 27.6% (420) | |
| Total Project Trips with Transit/Walk-In, Internal Capture & TDM Reduction Transit/Walk-In, Internal Capture & TDM Percentage Reduction from Compar Transit/Walk-In VMT Reductions Apartments High-Rise Condominiums | 10% 10% | 15,450 27.7% (4,511) (995) | (70) (13) | (277) (63) | 26.7% (347) (76) | (273) (60) | | 27.6% (420) (90) | |
| Total Project Trips with Transit/Walk-In, Internal Capture & TDM Reduction Transit/Walk-In, Internal Capture & TDM Percentage Reduction from Compar Transit/Walk-In VMT Reductions Apartments High-Rise Condominiums Hotel | 10% 10% 10% | 15,450 27.7% (4,511) (995) (2,074) | (70) (13) (87) | (277) (63) (55) | 26.7% (347) | (273) (60) (79) | (147) (30) (71) | 27.6% (420) (90) (150) | |
| Total Project Trips with Transit/Walk-In, Internal Capture & TDM Reduction Transit/Walk-In, Internal Capture & TDM Percentage Reduction from Compar Transit/Walk-In VMT Reductions Apartments High-Rise Condominiums Hotel Office | 10% 10% 10% 10% | (4,511) (995) (2,074) (962) | (70) (13) (87) (119) | (277) (63) (55) (17) | (347) (76) (142) (136) | (273) (60) (79) (22) | (147) (30) (71) (108) | (420) (90) (150) (130) | |
| Total Project Trips with Transit/Walk-In, Internal Capture & TDM Reduction Transit/Walk-In, Internal Capture & TDM Percentage Reduction from Compar Transit/Walk-In VMT Reductions Apartments High-Rise Condominiums Hotel Office Shopping Center | 10% 10% 10% 10% | (4,511) (995) (2,74) (962) (1,150) | (70) (13) (87) (119) (16) | (277) (63) (55) (17) (10) | (347) (76) (142) (136) (26) | (273) (60) (79) (22) (48) | (147) (30) (71) (108) (52) | (420) (90) (150) (130) (100) | |
| Total Project Trips with Transit/Walk-In, Internal Capture & TDM Reduction Transit/Walk-In, Internal Capture & TDM Percentage Reduction from Compar Transit/Walk-In VMT Reductions Apartments High-Rise Condominiums Hotel Office Shopping Center Supermarket | 10% 10% 10% 10% 10% | (4,511) (995) (2,074) (962) | (70) (13) (87) (119) | (277) (63) (55) (17) (10) (21) | (347) (76) (142) (136) (26) (55) | (273) (60) (79) (22) | (147) (30) (71) (108) | (420) (90) (150) (130) | |
| Total Project Trips with Transit/Walk-In, Internal Capture & TDM Reduction Transit/Walk-In, Internal Capture & TDM Percentage Reduction from Compar Transit/Walk-In VMT Reductions Apartments High-Rise Condominiums Hotel Office Shopping Center Supermarket Quality Restaurant | 10% 10% 10% 10% 10% 10% | (4,511) (995) (2,74) (962) (1,150) | (70) (13) (87) (119) (16) (34) (12) | (277) (63) (55) (17) (10) | (347) (76) (142) (136) (26) (55) (21) | (273) (60) (79) (22) (48) (77) (131) | (147) (30) (71) (108) (52) | 27.6% (420) (90) (150) (130) (100) (151) (196) | |
| Total Project Trips with Transit/Walk-In, Internal Capture & TDM Reduction Transit/Walk-In, Internal Capture & TDM Percentage Reduction from Compar Transit/Walk-In VMT Reductions Apartments High-Rise Condominiums Hotel Office Shopping Center Supermarket Quality Restaurant High-Turnover Restaurant | 10% 10% 10% 10% 10% | (4,511) (995) (2,074) (962) (1,150) (1,633) (2,346) (2,948) | (70) (13) (87) (119) (16) (34) (12) (138) | (277) (63) (55) (17) (10) (21) (9) (112) | (347) (76) (142) (136) (26) (55) (21) (250) | (273) (60) (79) (22) (48) (77) (131) (137) | (147) (30) (71) (108) (52) (74) (65) (91) | 27.6% (420) (90) (150) (130) (100) (151) (196) (228) | |
| Total Project Trips with Transit/Walk-In, Internal Capture & TDM Reduction Transit/Walk-In, Internal Capture & TDM Percentage Reduction from Compar Transit/Walk-In VMT Reductions Apartments High-Rise Condominiums Hotel Office Shopping Center Supermarket Quality Restaurant | 10% 10% 10% 10% 10% 10% | (4,511) (995) (2,074) (962) (1,150) (1,633) (2,346) | (70) (13) (87) (119) (16) (34) (12) | (277) (63) (55) (17) (10) (21) (9) | (347) (76) (142) (136) (26) (55) (21) | (273) (60) (79) (22) (48) (77) (131) | (147) (30) (71) (108) (52) (74) (65) | 27.6% (420) (90) (150) (130) (100) (151) (196) | |
| Total Project Trips with Transit/Walk-In, Internal Capture & TDM Reduction Transit/Walk-In, Internal Capture & TDM Percentage Reduction from Compar Transit/Walk-In VMT Reductions Apartments High-Rise Condominiums Hotel Office Shopping Center Supermarket Quality Restaurant High-Turnover Restaurant | 10% 10% 10% 10% 10% 10% | (4,511) (995) (2,074) (962) (1,150) (1,633) (2,346) (2,948) | (70) (13) (87) (119) (16) (34) (12) (138) | (277) (63) (55) (17) (10) (21) (9) (112) | (347) (76) (142) (136) (26) (55) (21) (250) | (273) (60) (79) (22) (48) (77) (131) (137) | (147) (30) (71) (108) (52) (74) (65) (91) | 27.6% (420) (90) (150) (130) (100) (151) (196) (228) | |

| TABLE 6 |
|---|
| VEHICLE MILES TRAVELED (VMT) - CROSSROADS HOLLYWOOD - EXISTING USES TO BE REMOVED |

| | Weekday | | | | | | | | |
|-----------------------------------|---|--|--|---|--|---|---|--|--|
| Size / Average Trip Length [a] | | A.M. Peak Hour | | | P.M. Peak Hour | | | | |
| • • • • | Dally | In | Out | Total | In | Out | Total | | |
| | | | | | | | | | |
| 04 | 550 | 0 | 24 | 40 | 24 | 10 | 52 | | |
| | | - | - | | - | | - | | |
| | 873 | | - | - | - | 98 | 118 | | |
| 26.7 ksf | 1,140 | 16 | 10 | 26 | 48 | 51 | 99 | | |
| 0.5 ksf | 60 | 3 | 2 | 5 | 3 | 2 | 5 | | |
| | 2,632 | 136 | 61 | 197 | 105 | 169 | 274 | | |
| | | | | | | | | | |
| 10.5 miles | 5,870 | 95 | 357 | 452 | 357 | 189 | 546 | | |
| 10.8 miles | 9,428 | 1,166 | 162 | 1,328 | 216 | 1,058 | 1,274 | | |
| 9.5 miles | 10.830 | 152 | 95 | 247 | 456 | 485 | 941 | | |
| 9.1 miles | 546 | 27 | 18 | 45 | 27 | 18 | 45 | | |
| | 26,674 | 1,440 | 632 | 2,072 | 1,056 | 1,750 | 2,806 | | |
| | Length [a] 84 du 79.1 ksf 26.7 ksf 0.5 ksf 10.5 miles 10.8 miles 9.5 miles | Length [a] Daily 84 du 559 79.1 ksf 873 26.7 ksf 1,140 0.5 ksf 60 2.632 10.5 miles 10.8 miles 9,428 9.5 miles 10,830 9.1 miles 546 | Length [a] Daily In 84 du 559 9 79.1 ksf 873 108 26.7 ksf 1,140 16 0.5 ksf 60 3 10.5 miles 5,870 95 10.8 miles 9,428 1,166 9.5 miles 10,830 152 9.1 miles 546 27 | Length [a] Daily A.M. Peak Ho Daily In Out 84 du 559 9 34 79.1 ksf 873 108 15 26.7 ksf 1,140 16 10 0.5 ksf 60 3 2 2 2,632 136 61 10.5 miles 9,428 1,166 162 9.5 miles 10,830 152 95 9.1 miles 546 27 18 | Size / Average Trip Length [a] Daily A.M. Peak Hour In Out Total 84 du 559 9 34 43 79.1 ksf 873 108 15 123 26.7 ksf 1,140 16 10 26 0.5 ksf 2,632 136 61 197 10.5 miles 9,428 1,166 162 1,328 9.5 miles 10,830 152 95 247 9.1 miles 546 27 18 45 | Size / Average Trip Length [a] Daily A.M. Peak Hour I In Out Total In 84 du 559 9 34 43 34 79.1 ksf 873 108 15 123 20 26.7 ksf 1,140 16 10 26 48 0.5 ksf 60 3 2 5 3 10.5 miles 5,870 95 357 452 357 10.8 miles 9,428 1,166 162 1,328 216 9.5 miles 10,830 152 95 247 456 9.1 miles 546 27 18 45 27 | $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | | |

[a] Average trip lengths based on CalEEMod assumptions

| | | Weekday | | | | | | |
|--|---|--|--|--|---|---|---|---|
| Land Use | Reduction | Daily | A.M. Peak Hour | | P.M. Peak Hour | | | |
| | | Daily | In | Out | Total | In | Out | Total |
| Pass-by Trip Reductions | | | | | | | | |
| Apartments | 0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Office | 0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Shopping Center | 40% | (456) | (6) | (4) | (10) | (19) | (20) | (39) |
| High-Turnover Restaurant | 20% | (12) | (1) | 0 | (1) | (1) | 0 | (1) |
| Subtotal - Pass-by Trip Reduction | 2070 | (468) | (7) | (4) | (11) | (20) | (20) | (40) |
| | | | | | | | | |
| Total Existing Trips to be Removed with Pass-by Reduction | | 2,164 | 129 | 57 | 186 | 85 | 149 | 234 |
| Pass-by VMT Reduction | | | | | | | | |
| Apartments | 0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Office | 0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 40% | (4,332) | (61) | (38) | (99) | (182) | (194) | (376 |
| Shopping Center | | , | . , | . , | | . , | . , | |
| High-Turnover Restaurant | 20% | (109) | (5) | (4) | (9) (108) | (5) (187) | (4) (198) | (9) (385 |
| Subtotal - Pass-by VMT Reduction | | (4,441) | (66) | (42) | (100) | (101) | 1 7 | . , |
| | | | | 590 | | 869 | | |
| Subtotal - Pass-by VMT Reduction Total Existing VMT to be Removed with Pass-by Reduction | | 22,233 | 1,374 | | 1,964 | | 1,552 | 2,421 |
| | | | | | | | | |
| Total Existing VMT to be Removed with Pass-by Reduction | 15% | | | | | | | |
| Total Existing VMT to be Removed with Pass-by Reduction | 15% | 22,233 | 1,374 | 590 | 1,964 | 869 | 1,552 | (8) |
| Total Existing VMT to be Removed with Pass-by Reduction Transit/Walk-In Trip Trip Reductions Apartments | | (84) | 1,374 (1) | 590 (5) | 1,964 (6) | 869 (5) | 1,552 (3) | 2,421 |
| Total Existing VMT to be Removed with Pass-by Reduction Transit/Walk-In Trip Trip Reductions Apartments Office | 15% | (84) (131) | 1,374 (1) (16) | (5) (2) | (6) (18) | (5) (3) | (3) (15) | (8) (18) |
| Total Existing VMT to be Removed with Pass-by Reduction Transit/Walk-In Trip Trip Reductions Apartments Office Shopping Center | 15% 15% | (84) (131) (103) | (1) (16) (2) | (5) (2) (1) | (6) (18) (3) | (5) (3) (4) | (3) (15) (5) | (8) (18) (9) |
| Total Existing VMT to be Removed with Pass-by Reduction Transit/Walk-In Trip Trip Reductions Apartments Office Shopping Center High-Turnover Restaurant | 15% 15% 15% | (84) (131) (103) (7) | (1) (16) (2) 0 | (5) (2) (1) 0 | (6) (18) (3) 0 | (5) (3) (4) 0 | (3) (15) (5) 0 | (8) (18) (9) 0 |
| Total Existing VMT to be Removed with Pass-by Reduction Transit/Walk-In Trip Trip Reductions Apartments Office Shopping Center High-Turnover Restaurant Subtotal - Pass-by Trip Reduction Total - Existing Trips to be Removed with Pass-by & Transit/Walk-In Trip Red | 15% 15% 15% | (84) (131) (103) (7) (325) | (1) (16) (2) (19) | (5) (2) (1) (8) | (6) (18) (3) (27) | (5) (3) (4) (12) | (3) (15) (5) (23) | (8) (18) (9) (35) |
| Total Existing VMT to be Removed with Pass-by Reduction Transit/Walk-In Trip Trip Reductions Apartments Office Shopping Center High-Turnover Restaurant Subtotal - Pass-by Trip Reduction Total - Existing Trips to be Removed with Pass-by & Transit/Walk-In Trip Red Transit/Walk-In VMT Reductions | 15% 15% 15% | (84) (131) (103) (7) (325) 1,839 | (1) (16) (2) (19) 110 | (5) (2) (1) (8) 49 | (6) (18) (3) 0 (27) 159 | (5) (3) (4) (12) 73 | (3) (15) (5) (23) (23) | (8) (18) (9) (35) 199 |
| Total Existing VMT to be Removed with Pass-by Reduction Transit/Walk-In Trip Trip Reductions Apartments Office Shopping Center High-Turnover Restaurant Subtotal - Pass-by Trip Reduction Total - Existing Trips to be Removed with Pass-by & Transit/Walk-In Trip Red Transit/Walk-In VMT Reductions Apartments | 15% 15% 15% uction 15% | (84) (131) (103) (7) (325) 1,839 (881) | (1) (16) (2) (19) 110 (14) | (5) (2) (1) 0 (8) (54) | (6) (18) (3) (27) (59 (68) | (5) (3) (4) (12) 73 (54) | (3) (15) (5) (23) (28) | (8) (18) (9) (35) (35) (82) |
| Total Existing VMT to be Removed with Pass-by Reduction Transit/Walk-In Trip Trip Reductions Apartments Office Shopping Center High-Turnover Restaurant Subtotal - Pass-by Trip Reduction Total - Existing Trips to be Removed with Pass-by & Transit/Walk-In Trip Reduction Transit/Walk-In VMT Reductions Apartments Office | 15% 15% 15% uction 15% 15% | (84) (131) (103) (7) (325) 1,839 (881) (1,414) | (1) (16) (2) 0 (19) 110 (14) (175) | (5) (2) (1) 0 (8) (54) (54) (24) | (6) (18) (3) 0 (27) 159 (68) (199) | (5) (3) (4) 0 (12) 73 (54) (32) | (3) (15) (5) 0 (23) 126 (28) (159) | (8) (18) (9) (35) (35) (199 (82) (191 |
| Total Existing VMT to be Removed with Pass-by Reduction Transit/Walk-In Trip Trip Reductions Apartments Office Shopping Center High-Turnover Restaurant Subtotal - Pass-by Trip Reduction Total - Existing Trips to be Removed with Pass-by & Transit/Walk-In Trip Red Transit/Walk-In VMT Reductions Apartments Office Shopping Center | 15% 15% 15% uction 15% 15% | (84) (131) (103) (7) (325) 1,839 (881) (1,414) (975) | (1) (16) (2) 0 (19) 110 (14) (175) (14) | (5) (2) (1) (6) (6) (54) (24) (24) (9) | (6) (18) (3) (27) 159 (68) (199) (23) | (5) (3) (4) (12) 73 (54) (32) (41) | (3) (15) (5) (23) (23) (23) (28) (159) (44) | (8) (18) (9) 0 (35) 199 (82) (191 (85) |
| Total Existing VMT to be Removed with Pass-by Reduction Transit/Walk-In Trip Trip Reductions Apartments Office Shopping Center High-Turnover Restaurant Subtotal - Pass-by Trip Reduction Total - Existing Trips to be Removed with Pass-by & Transit/Walk-In Trip Red Transit/Walk-In VMT Reductions Apartments Office Shopping Center High-Turnover Restaurant | 15% 15% 15% uction 15% 15% | (84) (131) (103) (7) (325) 1,839 (881) (1,414) (975) (66) | (1) (16) (2) 0 (19) 110 (14) (175) (14) (3) | (5) (2) (1) (8) (54) (24) (9) (2) | (6) (18) (3) (27) 159 (68) (199) (23) (5) | (5) (3) (4) 0 (12) 73 (54) (32) (41) (3) | (3) (15) (5) (23) (23) (28) (159) (44) (2) | (8) (18) (18) (9) 0 (35) (35) (199 (82) (191 (85) (5)) |
| Total Existing VMT to be Removed with Pass-by Reduction Transit/Walk-In Trip Trip Reductions Apartments Office Shopping Center High-Turnover Restaurant Subtotal - Pass-by Trip Reduction Total - Existing Trips to be Removed with Pass-by & Transit/Walk-In Trip Red Transit/Walk-In VMT Reductions Apartments Office Shopping Center | 15% 15% 15% uction 15% 15% | (84) (131) (103) (7) (325) 1,839 (881) (1,414) (975) | (1) (16) (2) 0 (19) 110 (14) (175) (14) | (5) (2) (1) (6) (6) (54) (24) (24) (9) | (6) (18) (3) (27) 159 (68) (199) (23) | (5) (3) (4) (12) 73 (54) (32) (41) | (3) (15) (5) (23) (23) (23) (28) (159) (44) | (8) (18) (9) 0 (35) 199 (82) (191 (85) |

 TABLE 7

 VEHICLE MILES TRAVELED (VMT) - HOLLYWOOD CROSSROADS - EXISTING USES TO BE REMOVED WITH SITE-RELATED REDUCTIONS

TABLE 8 VEHICLE MILES TRAVELED (VMT) - CROSSROADS HOLLYWOOD - NET PROJECT WITH PROJECT WITH REDUCTIONS

| | | Weekday | | | | | |
|--|-----------------------------|----------------|----------------|--------------------------|-----------------|----------------|---------------------------|
| Summary | | A.M. Peak Hour | | | P.M. Peak Hour | | |
| | Daily | In | Out | Total | In | Out | Total |
| Total Project Trips with Pass-by Reduction (Comparable Project) Net Project Trips with Project-Related and Existing Use Reduction Percentage Reduction from Comparable Project | 21,362 13,611 56.9% | 614 336 | 684 456 | 1,300 794 63.7% | 1,059 693 | 809 460 | 1,867 1,152 62.1% |
| Total VMT with Pass-by Reduction (Comparable Project) Net Project VMT with Project-Related and Existing Use Reduction Percentage Reduction from Comparable Project | 206,069 126,227 63.3% | 6,002 3,156 | 6,830 4,528 | 12,832 7,684 67.0% | 10,240 6,513 | 7,878 4,226 | 18,118 10,739 68.7% |

Exhibit 4

Greenhouse Gas Emissions Methodology and Documentation

Greenhouse Gas Emissions Methodology and Documentation

Crossroads Hollywood Project

Project Applicant:

CRE-HAR Crossroads SPV, LLC 6363 Wilshire Boulevard, #600 Los Angeles, CA 90048

August 2016

Prepared By:

Eyestone Environmental 6701 Center Drive West, Suite 900 Los Angeles, CA 90045





August 15, 2016

CALIFORNIA AIR RESOURCES BOARD

1001 I Street Sacramento, CA 95814-2828

RE: Greenhouse Gas Emissions Methodology and Documentation Pursuant to the "Jobs and Economic Improvement through Environmental Leadership Act" (Public Resources Code Section 21178 et seq.) for the Crossroads Hollywood Project

To California Air Resources Board:

On behalf of CRE-HAR Crossroads SPV, LLC, the Project Applicant, Eyestone Environmental prepared an Application for CEQA Streamlining for the Crossroads Hollywood Project (Project), to demonstrate that the Project meets the requirements of the Jobs and Economic Improvement through Environmental Leadership Act (Public Resources Code Section 21178 et seq.), also referred to as Assembly Bill (AB) 900. As detailed in the application, the Project would incorporate a number of Project characteristics and project design features to avoid, minimum, and reduce greenhouse gas emissions. Our findings conclude that the Project would meet the GHG emissions requirements for streamlined environmental review under CEQA.

Should you have any questions or require additional information please feel free to contact me at (424) 207-5333.

Sincerely,

Mark A. 4.

Mark Hagmann, P.E. **EYESTONE ENVIRONMENTAL** Air Quality Director

TABLE OF CONTENTS

| Ρ | ad | e |
|---|----------|---|
| | <u> </u> | - |

| 1. | | .1 |
|----|---------------------------------------|----|
| 2. | GREENHOUSE GAS EMISSIONS METHODOLOGY | 16 |
| 3. | GREENHOUSE GAS EMISSIONS CALCULATIONS | 28 |

APPENDICES

Appendix A Greenhouse Gas Worksheets

LIST OF FIGURES

| Figure | <u>e</u> | <u>Page</u> |
|--------|---|-------------|
| 1 | Project Location Map | 6 |
| 2 | Aerial Photograph of the Project Vicinity | 7 |
| 3 | Existing Site Plan | 9 |
| 4 | Conceptual Site Plan | 12 |
| 5 | Conceptual Rendering of the Project | 13 |

LIST OF TABLES

| <u>Table</u> | Pa | ge |
|--------------|---|----|
| 1 | Description of Identified Greenhouse Gases | 4 |
| 2 | Atmospheric Lifetimes and Global Warming Potentials | 5 |
| 3 | Summary of the Proposed Development Areas | 11 |
| 4 | Construction-Related Emissions (metric tons of CO ₂ e) | 30 |
| 5 | Area Source Greenhouse Gas Emissions | 30 |
| 6 | Electrical Demand Greenhouse Gas Emissions | 31 |
| 7 | Natural Gas Combustion Greenhouse Gas Emissions | 33 |
| 8 | Mobile Source Greenhouse Gas Emissions | 34 |
| 9 | Baseline Condition Solid Waste Disposal Greenhouse Gas Emissions | 38 |
| 10 | Baseline Condition Water and Wastewater Greenhouse Gas Emissions | 39 |
| 11 | Summary of Annual GHG Emissions (MTCO2e/yr) | 40 |

Crossroads Hollywood

Greenhouse Gas Emissions Methodology and Documentation

1. Introduction

Eyestone Environmental has been retained to conduct a comprehensive greenhouse gas (GHG) emissions assessment for the Crossroads Hollywood Project (the "Project") and to demonstrate that the Project meets the requirements of the *Jobs and Economic Improvement Through Environmental Leadership Act* ("the Act") (Public Resources Code Section 21178 et seq.), also referred to as Assembly Bill (AB) 900. This assessment describes the methodology used to estimate the GHG emissions from baseline and Project conditions, provides an estimate of the net change in GHG emissions for the Project as compared to baseline conditions, and describes the methodology uses to quantify GHG emission reductions from project design features and mitigation measures. The following baseline and Project-related emission sources have been evaluated:

- Construction Activities—Fossil fueled on- and off-road vehicles and equipment needed for demolition, mass and fine grading, building construction, paving, and architectural coating;
- Direct Emission Sources—Consumption of natural gas on-site for cooking, space heating and water heating, combustion of fossil fuels for lawn care and maintenance activities, and motor vehicles including employee transportation; and
- Indirect Emission Sources—Off-site electricity generation, water conveyance and wastewater treatment, and solid waste disposal.

a. Assembly Bill 900

In September 2011, the Governor Brown signed the Act, which required the Governor to establish procedures for applying for streamlined environmental review under the California Environmental Quality Act (CEQA) for projects that meet certain requirements. The Office of Planning and Research (OPR) has provided approved guidelines for submitting applications for streamlined environmental review pursuant to the Act. With respect to GHG emissions, a project must demonstrate that it would not result in

any net additional GHGs including GHG emissions from employee transportation in accordance with Public Resources Code Section 21183(c). For purposes of California Public Resources Code Section 21183(c) the following process applies:

- 1. The applicant shall submit electronically to AB900ARBsubmittals@arb.ca.gov a proposed methodology for quantifying the project's net additional GHG emissions. The CARB will review and comment on the methodology, at its discretion, within 30 days of submission.
- 2. At the same time, the applicant shall submit to AB900ARBsubmittals@arb.ca.gov documentation that the project does not result in any net additional GHG emissions. The documentation must at least quantify:
 - a. Both direct and indirect GHG emissions associated with the project's construction and operation, including emissions from the project's projected energy use and transportation related emissions; and
 - b. The net emissions of the project after accounting for any mitigation measures that will be monitored and enforced consistent with Public Resources Code section 21183(d).
- 3. Within 60 days of receiving the documentation (in 2. above), the CARB will determine whether the condition specified in Public Resources section 21183(c) has been met or, if more time is needed, notify the applicant of the expected completion date.
- 4. The CARB will determine and report to the Governor in writing that a project does not result in any net additional emissions of greenhouse gases if the project demonstrates through a combination of project design features, compliance with (or exceeding minimum requirements of) existing regulations, and mitigation that it would result in zero additional greenhouse gas emissions.

b. Global Climate Change and GHG Emissions

Global climate change refers to changes in average climatic conditions on Earth as a whole, including changes in temperature, wind patterns, precipitation, and storms. Global warming, a related concept, is the observed increase in average temperature of the Earth's surface and atmosphere. One identified cause of global warming is an increase of GHGs in the atmosphere. GHGs are those compounds in the Earth's atmosphere that play a critical role in determining the Earth's surface temperature. By definition, GHGs include carbon dioxide (CO_2) , methane (CH_4) , nitrous oxide (N_2O) , hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF_6) , and nitrogen trifluoride (NF_3) .¹ Carbon dioxide is the most abundant GHG. Other GHGs are less abundant, but have higher global warming potential than CO_2 . Thus, emissions of other GHGs are frequently expressed in the equivalent mass of CO_2 , denoted as CO_2e . Forest fires, decomposition, industrial processes, landfills, and consumption of fossil fuels for power generation, transportation, heating, and cooking are the primary sources of GHG emissions. A general description of the GHGs discussed is provided in Table 1 on page 4.

Global Warming Potentials (GWPs) are one type of simplified index based upon radiative properties that can be used to estimate the potential future impacts of emissions of different gases upon the climate system in a relative sense. GWP is based on a number of factors, including the radiative efficiency (heat-absorbing ability) of each gas relative to that of CO_2 , as well as the decay rate of each gas (the amount removed from the atmosphere over a given number of years) relative to that of CO_2 . The larger the GWP, the more that a given gas warms the Earth compared to CO_2 over that time period. A summary of the atmospheric lifetime and GWP of selected gases is presented in Table 2 on page 5. As indicated below, GWP range from 1 to 22,800.

c. Project Description

CRE-HAR Crossroads SPV, LLC, the Project Applicant, proposes to construct a mixed-use development across four City blocks in the Hollywood Community of the City of Los Angeles (the Project Site). The 8.0-acre (348,419-square-foot) Project Site is generally bounded by Selma Avenue to the north; the Blessed Sacrament Catholic Church and School to the east; Sunset Boulevard to the south; and Highland Avenue to the west. The Project Site includes the Crossroads of the World complex (Crossroads of the World), which is a designated City Cultural-Historic Monument (Monument #134) and also appears on the National Register of Historic Places and the California Register of Historical Resources. The Project would retain and rehabilitate Crossroads of the World and remove all other existing uses on the Project Site, including surface parking lots and approximately 172,573 square feet of existing floor area consisting of 84 residential units (including 80 multi-family dwelling units and two duplexes) and commercial/retail and office uses. The Project would integrate Crossroads of the World into a new, mixed-use development that would include eight new mixed-use buildings with residential, hotel, commercial/retail, office, entertainment, and restaurant uses and one additional commercial/retail building. Upon buildout, the Project (including existing uses to be retained within the Crossroads of the World complex) would include approximately 1,432,000 square feet of floor area

¹ As defined by California AB32 and SB104.

Table 1Description of Identified Greenhouse Gases^a

| Greenhouse Gas | General Description |
|---|--|
| Carbon Dioxide (CO ₂) | An odorless, colorless GHG, which has both natural and anthropocentric sources. Natural sources include the following: decomposition of dead organic matter; respiration of bacteria, plants, animals, and fungus; evaporation from oceans; and volcanic outgassing. Anthropogenic (human caused) sources of carbon dioxide are burning coal, oil, natural gas, and wood. |
| Methane (CH₄) | A flammable gas and is the main component of natural gas. When one molecule of methane is burned in the presence of oxygen, one molecule of carbon dioxide and two molecules of water are released. A natural source of methane is the anaerobic decay of organic matter. Geological deposits, known as natural gas fields, also contain methane, which is extracted for fuel. Other sources are from landfills, fermentation of manure, and cattle. |
| Nitrous Oxide (N ₂ O) | A colorless GHG. High concentrations can cause dizziness, euphoria, and sometimes slight hallucinations. Nitrous oxide is produced by microbial processes in soil and water, including those reactions which occur in fertilizer containing nitrogen. In addition to agricultural sources, some industrial processes (fossil fuel-fired power plants, nylon production, nitric acid production, and vehicle emissions) also contribute to its atmospheric load. It is used in rocket engines, race cars, and as an aerosol spray propellant. |
| Hydrofluorocarbons (HFCs) | Chlorofluorocarbons (CFCs) are gases formed synthetically by replacing all hydrogen atoms in methane or ethane with chlorine and/or fluorine atoms. CFCs are nontoxic, nonflammable, insoluble, and chemically unreactive in the troposphere (the level of air at the earth's surface). CFCs were first synthesized in 1928 for use as refrigerants, aerosol propellants, and cleaning solvents. Because they destroy stratospheric ozone, the production of CFCs was stopped as required by the Montreal Protocol in 1987. HFCs are synthetic man-made chemicals that are used as a substitute for CFCs as refrigerants. HFCs deplete stratospheric ozone, but to a much lesser extent than CFCs. |
| Perfluorocarbons (PFCs) | PFCs have stable molecular structures and do not break down through the chemical processes in the lower atmosphere. High-energy ultraviolet rays about 60 kilometers above the earth's surface are able to destroy the compounds. PFCs have very long lifetimes, between 10,000 and 50,000 years. Two common PFCs are tetrafluoromethane and hexafluoroethane. The two main sources of PFCs are primary aluminum production and semiconductor manufacture. |
| Sulfur Hexafluoride (SF ₆) | An inorganic, odorless, colorless, non-toxic, and nonflammable gas. SF_6 is used for insulation in electric power transmission and distribution equipment, in the magnesium industry, in semiconductor manufacturing, and as a tracer gas for leak detection. |
| Nitrogen Trifluoride (NF₃) | An inorganic, non-toxic, odorless, non-flammable gas. NF_3 is used in the manufacture of semi-conductors, as an oxidizer of high energy fuels, for the preparation of tetrofluorohydrazine, as an etchant gas in the electronic industry, and as a fluorine source in high power chemical lasers. |
| | identified in this table are ones identified in the Kyoto protocol and other synthetic d to the IPCC's Fifth Assessment Report. |
| Source: Association of I Emissions and | Environmental Professionals, Alternative Approaches to Analyze Greenhouse Gas Global Climate Change in CEQA Documents, Final, June 29, 2007; Environmental ncy, Acute Exposure Guideline Levels (AEGLs) for Nitrogen Trifluoride, January |

| Gas | Atmospheric Lifetime (years) | Global Warming Potential (100-year time horizon) |
|--|---------------------------------|--|
| Carbon Dioxide | 50–200 | 1 |
| Methane | 12 (+/-3) | 21 |
| Nitrous Oxide | 120 | 310 |
| HFC-23 | 264 | 11,700 |
| HFC-134a | 14.6 | 1,300 |
| HFC-152a | 1.5 | 140 |
| PFC-14: Tetrafluoromethane (CF ₄) | 50,000 | 6,500 |
| PFC-116: Hexafluoroethane (C ₂ F ₆) | 10,000 | 9,200 |
| Sulfur Hexafluoride (SF ₆) | 3,200 | 23,900 |
| Nitrogen Trifluoride (NF ₃) | 740 | 17,200 |
| Source: IPCC, 2007, www.ipcc.ch/pul August 10, 2016. | blications_and_data/ar4/wg1/e | n/ch2s2-10-2.html, accessed |

 Table 2

 Atmospheric Lifetimes and Global Warming Potentials

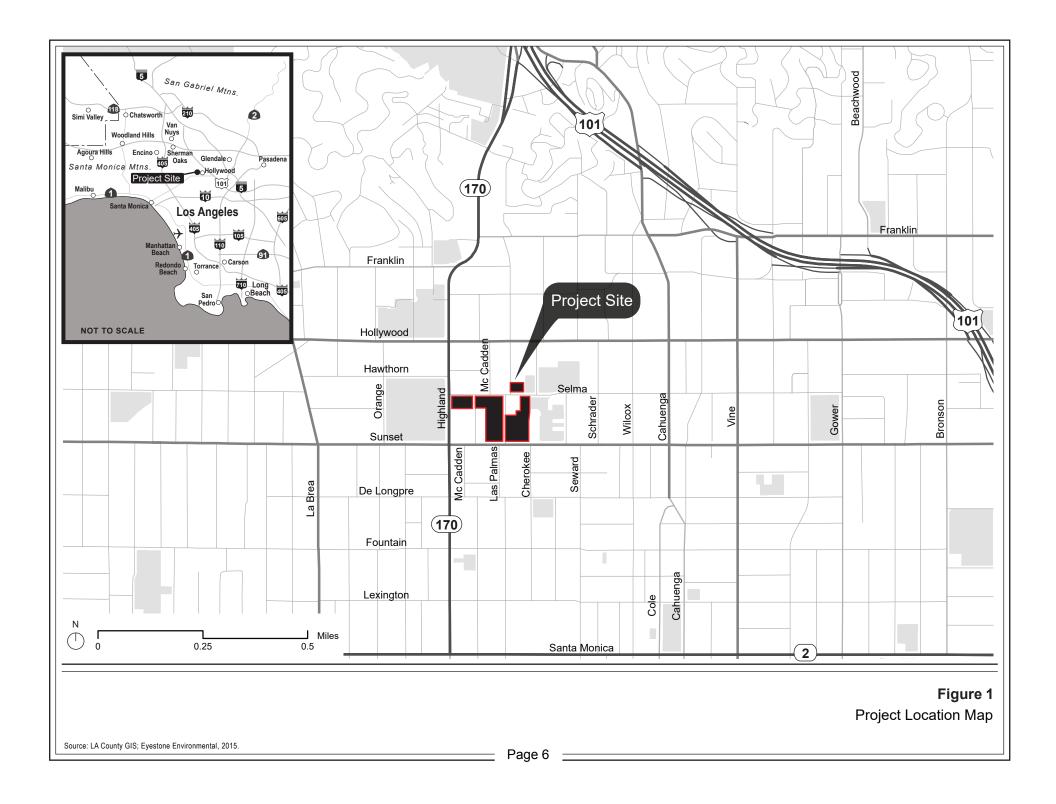
consisting of 950 residential units, 308 hotel rooms, approximately 95,000 square feet of office uses, and approximately 185,000 square feet of commercial/retail uses.

(1) Project Location and Surrounding Uses

The Project Site is located in the Hollywood Community of the City of Los Angeles, approximately 7 miles northwest of downtown Los Angeles and approximately 12 miles east of the Pacific Ocean. A regional map of the Project area is provided in Figure 1 on page 6. The Project Site is irregularly-shaped and consists of 29 individual parcels across four City blocks, as well as Las Palmas Avenue – between Selma Avenue and Sunset Boulevard – that would be re-aligned. As shown in the aerial map in Figure 2 on page 7, the individual parcels are grouped into four Project areas referred to as Development Parcels A, B, C, and D. Generally, the Project Site is bounded by Selma Avenue to the north; the Blessed Sacrament Church and School and associated surface parking to the east; Sunset Boulevard to the south; and Highland Avenue to the west. Development Parcels A, B, and C are located south of Selma Avenue. Development Parcel D is located on the northeastern corner of Selma Avenue and Las Palmas Avenue.

(2) Existing Project Site Conditions

As detailed below, the Project Site is currently developed with various uses, including low-density commercial and office uses in the historic Crossroads of the World



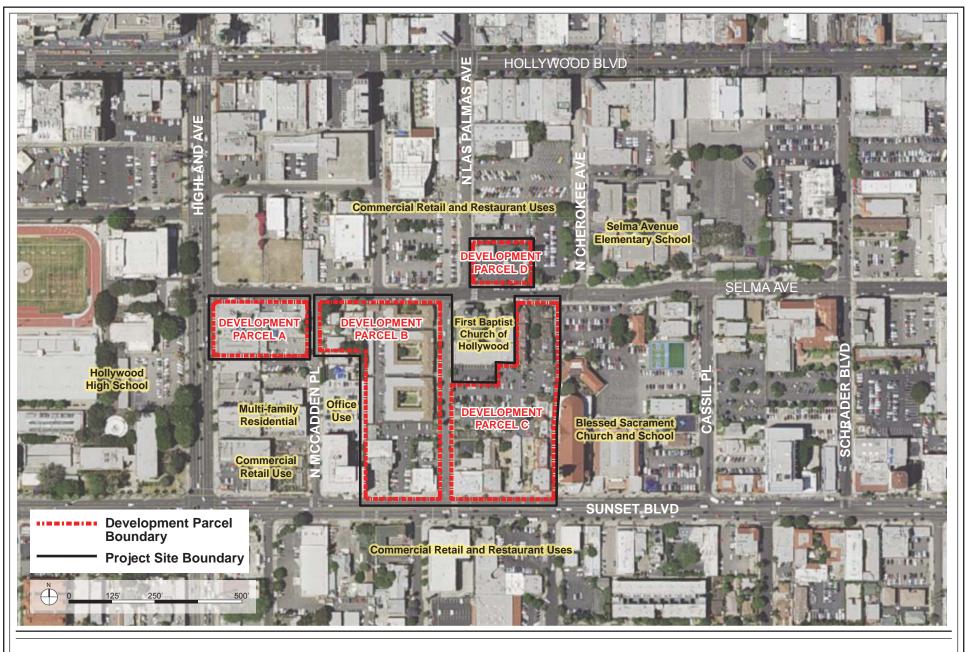


Figure 2 Aerial Photograph of the Project Vicinity

Source: Google Earth, 2015; Skidmore Owings & Merril LLP and Rios Clementi Hale Studios, 2015.

property; two residential duplexes; three two-story, multi-family apartment buildings housing a total of 84 dwelling units; one- and two-story structures used for commercial office and retail uses; and surface parking lots. Existing on-site uses include a total of approximately 154,947 square feet of floor area. Intermittent landscaping is dispersed throughout the Project Site and generally consists of ornamental trees and shrubs. The existing site plan is provided in Figure 3 on page 9.

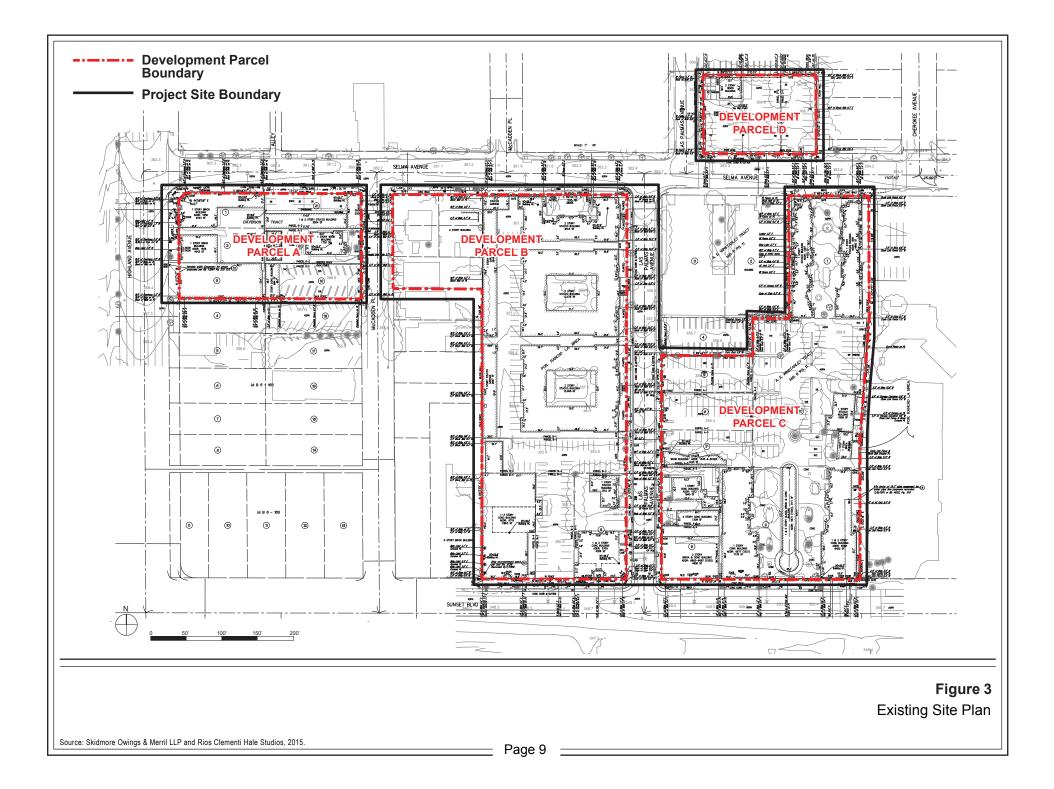
Development Parcel A of the Project Site includes one- and two-story commercial/retail uses, including a small acting school and music rehearsal store and surface parking areas. Development Parcel B includes a single-story commercial use fronting McCadden Place, two residential duplexes on the south side of Selma Avenue, three two-story multi-family residential buildings along Selma Avenue and Las Palmas Avenue, a small single-story chiropractic office along Las Palmas Avenue, a one- to two-story building consisting of community-serving small retail shops along Sunset Boulevard, and a one- to three-story office building also along Sunset Boulevard.

Existing development on Development Parcel C of the Project Site includes the Crossroads of the World, which is a designated City Cultural-Historic Monument (Monument #134) and also listed on the National Register of Historic Places and the California Register of Historic Resources. The approximate 50,000-square-foot Crossroads of the World complex consists of one- and two-story office, retail and restaurant shops in a variety of architectural styles such as Streamline Moderne, and French-,English-, Moorish- and Spanish-influenced styles. The shops are connected by a series of landscaped walkways with pedestrian entrances on Sunset Boulevard and Las Palmas Avenue; pedestrian access from Selma Avenue has been removed and currently blocked off with a locked wrought iron gate. The complex was designed in 1936 to create an "Old World" Atmosphere and was the City's first outdoor pedestrian village that included a mix of shopping, dining, and entertainment uses.

Development Parcel C of the Project Site includes a two-story office/retail building west of Crossroads of the World and along Sunset Boulevard, one- and two-story office buildings along Las Palmas Avenue, and a surface parking lot. Existing development on Development Parcel D of the Project Site includes a two-story commercial/retail building and a surface parking lot.

(3) Project Characteristics

The Project proposes to redevelop the Project Site with a cohesive, mixed-use development that blends the character of Crossroads of the World with a collection of new buildings of modern design and creates an open-air pedestrian district with a mix of shopping, dining, and entertainment uses. Crossroads of the World, which is a designated



City Cultural-Historic Monument (Monument #134) and is also listed on the National Register of Historic Places and the California Register of Historical Resources, would be retained, preserved, and rehabilitated as part of the Project. Eighty-four existing residential units (including 80 multi-family dwelling units and two duplexes) and low-density commercial/retail and office uses, as well as surface parking lots, would be demolished and replaced with eight new mixed-use buildings that would include residential, hotel, commercial/retail, office, entertainment, and restaurant uses and one additional small commercial/retail building.

Upon build-out, the Project would include approximately 950 residential units, 308 hotel rooms, approximately 95,000 square feet of office uses, and approximately 185,000 square feet of commercial/retail uses, totaling approximately 1,432,000 square feet of floor area (including existing uses to be retained within the Crossroads of the World complex). The Project would demolish a total of approximately 131,656 square feet of existing development. In total, the Project would result in an increase of approximately 1,259,927 square feet of net new floor area on the Project Site.

The Project Site includes four areas referred to as Development Parcels A, B, C, and D. The Development Parcels include 10 sub-areas: Parcel A includes Building A1; Parcel B includes Buildings B1, B2, B3, and B4; Parcel C includes Buildings C1, C2, and C3 and Crossroads of the World; and Parcel D includes Building D1. These sub-areas are discussed in further detail below. Table 3 on page 11 provides a summary of the types and sizes of land uses included in the Project. The proposed conceptual site plan is included in Figure 4 on page 12. A conceptual rendering of the Project from Sunset Boulevard is illustrated in Figure 5 on page 13.

(a) Development Parcel A—Hotel Area (Building A1)

The Project would remove all existing land uses on Development Parcel A and construct Building A1, which would be located on the south side of Selma Avenue between Highland Avenue and McCadden Place. Building A1 would consist of an approximately 377,000-square-foot high-rise structure with a 308-room hotel, ancillary meeting rooms, a lobby lounge and bar, a rooftop bar and lounge, and ground floor restaurant and retail uses. Building A1 would be approximately 26 stories tall and would reach a maximum height of approximately 365 feet.

(b) Development Parcels B and D—Mixed-Use Residential and Retail Area (Buildings B1, B2, B3, B4, and D1)

The Project would remove all existing land uses on Development Parcels B and D and construct a total of five mixed-use residential buildings with ground-floor commercial/ retail uses: Buildings B1, B2, B3, B4, and D1. Development Parcel B, consisting of

| Development Area | Land Use | Proposed Development ^a |
|--------------------------------------|----------------------|-----------------------------------|
| Development Parcel A | Hotel | 348,500 sf ^b |
| | | (308 rm) |
| | Commercial/Retail | 28,500 sf |
| Development Parcel B | Residential | 743,500 sf |
| | | (872 du) |
| | Commercial/Retail | 58,500 sf |
| Development Parcel C | Commercial/Retail | 93,500 sf |
| | Office | 95,000 sf |
| Development Parcel D | Residential (Rental) | 60,500 sf |
| | | (78 du) |
| | Commercial/Retail | 4,500 sf |
| Total Residential (Condominiu | ms | 804,000 sf |
| + Rental) | | 950 du |
| | | (190 du condominiums) |
| | | (760 du rental units) |
| Total Retail | | 185,000 sf ^d |
| Total Office | | 95,000 sf |
| Total Hotel | | 348,500 sf |
| | | (308 rm) |
| Total Proposed Floor Area $^{\circ}$ | | 1,432,500 sf ^e |
| Total Subterranean Parking Ar | ea | 1,223,700 sf |

Table 3Summary of the Proposed Development Areas

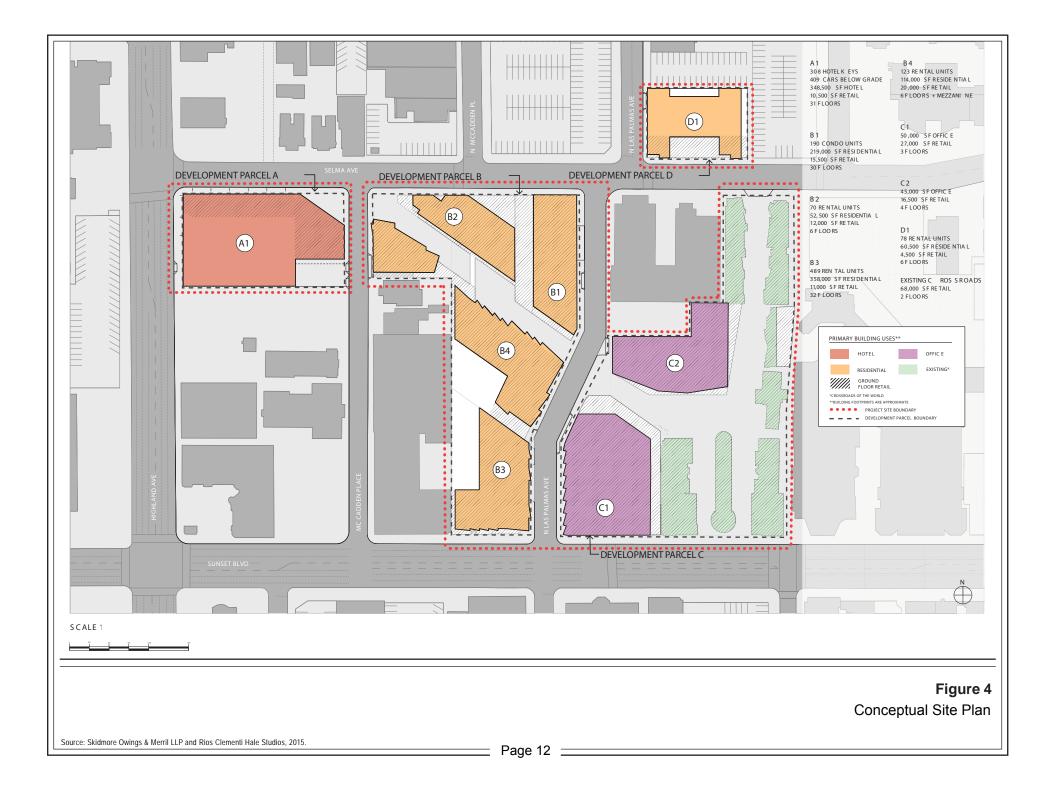
sf = square feet

du = *dwelling unit*

rm = hotel rooms

- ^a Square footages are rounded up to the nearest 500 square feet.
- ^b Hotel square footage includes approximately 39,000 square feet of hotel amenities.
- ^c Except where otherwise noted, square footage is calculated pursuant to the LAMC definition of floor area for the purpose of calculating FAR. In accordance with LAMC Section 12.03, floor area is defined as: "[t]he area in square feet confined within the exterior walls of a building, but not including the area of the following: exterior walls, stairways, shafts, rooms housing building-operating equipment or machinery, parking areas with associated driveways and ramps, space for the landing and storage of helicopters, and basement storage areas."
- ^d Approximately 83,200 square feet and 40,000 square feet of the proposed retail area would consist of restaurant uses (with a maximum total of 3,376 seats) and a supermarket, respectively.
- ^e Includes the existing Crossroads of the World complex, which would be retained.

Source: Skidmore Ownings & Merrill, LLP/Rios Clementi Hale Studios, 2016.





Buildings B1, B2, B3, and B4, would include a total of approximately 872 residential units (190 condominium units and 682 rental units) and approximately 58,500 square feet of commercial/retail uses. Building B1 would consist of 30 floors and would reach a maximum height of approximately 402 feet above grade. Building B2 would consist of 6 floors and would reach a maximum height of approximately 87 feet above grade. Building B3 would consist of 32 floors and would reach a maximum height of six floors in addition to a mezzanine floor and would reach a maximum height of approximately 95 feet above grade. All buildings in Development Parcel B would include ground floor commercial/retail uses with residential units above.

Development Parcel D consists of Building D1, which would include approximately 78 residential units and approximately 4,500 square feet of ground-floor commercial/retail uses. Building D1 would consist of 6 floors and would reach a maximum height of approximately 85 feet above grade.

In total, Development Parcels B and D would have 950 residential units (including 190 condominiums and 760 apartments) and approximately 63,000 square feet of ground-floor commercial/retail uses. Of the 760 apartment units proposed, 84 units would be affordable housing rental units. These affordable housing rental units would replace the existing 84 rent-stabilized units located in Development Parcel B that would be removed.

(c) Development Parcel C—Commercial Area (Buildings C1 & C2, and C3, and Crossroads of the World)

The commercial portion of the Project, consisting of creative office and retail/ restaurant uses, would be located in Development Parcel C located east of Las Palmas Avenue and directly adjacent to the historic Crossroads of the World complex. As previously discussed, Crossroads of the World, would be retained and rehabilitated as part of the Project. New development on Development Parcel C would include Buildings C1, C2, and C3, together adding up to approximately 95,000 square feet of office uses and approximately 43,500 square feet of ground-floor retail uses. Building C1 would be three stories tall and would reach a maximum height of approximately 65 feet above grade. Building C2 would consist of two floors and would reach a maximum height of approximately 81 feet above grade. Building C3 would consist of one floor with a maximum height of 19 feet. In total, Development Parcel C would consist of approximately 95,000 square feet of office uses and approximately 93,500 square feet of retail and other commercial uses (including existing uses to be retained within the Crossroads of the World complex).

(d) Parking

All proposed parking for the Project would consist of new subterranean parking garages. Development Parcels A would have six levels of subterranean parking with 307 parking spaces to serve the hotel building on this development parcel. Development Parcels B and C would have five connected/shared levels of subterranean parking with 2,083 parking spaces to accommodate all the uses in Buildings B1, B2, B3, B4, C1, C2, C3, and the Crossroads of the World complex. Development Parcel D would have three levels of subterranean parking with 104 parking spaces to serve the primarily residential building on this development parcel. Vehicle and bicycle parking would be provided in accordance with applicable LAMC requirements. A total of 2,494 vehicle parking spaces would be provided in the three subterranean parking garages, and a total of 1,307 bicycle parking spaces would also be provided.

The Project also proposes to establish a new pedestrian passageway/paseo that would extend diagonally from Sunset Boulevard/Crossroads of the World to the corner of Selma Avenue and Highland Avenue. Additional landscaped public walkways would connect the entire Project Site, while promoting access from Sunset Boulevard, Las Palmas Avenue, Selma Avenue, and McCadden Place.

(e) Landscaping and Open Space

The Project would provide a variety of open space and recreational amenities. The Project would include open space and green space, consisting of a series of integrated walkways that connect the dynamic mixed-use district created by the Project with the Hollywood neighborhood. Proposed additional landscaped public walkways, including 34,786 square feet of the pedestrian paseo, would also promote access and connectivity to and through the Project Site from Sunset Boulevard, Las Palmas Avenue, Selma Avenue, and McCadden Place.

In addition, the Project would also include active and passive recreational spaces, including roof decks and pools, community rooms and recreational facilities, courtyards, landscaped gardens, terraces, and common open space with gathering and seating areas. In total, approximately 108,611 square feet of open space, consisting of approximately 73,411 square feet of common open space and approximately 35,200 square feet of private open space (i.e., balconies), would be provided in accordance with the open space provisions for new residential projects set forth in LAMC Section 12.21.G. Furthermore, the existing Crossroads of the World courtyards would provide an additional 44,177 square feet of open space.

(f) Project Construction and Scheduling

Construction of the Project would be conducted in phases. Project construction would commence with demolition of the existing buildings (excluding Crossroads of the World) and surface parking lots, followed by grading and excavation for the subterranean parking garages. Building foundations would then be placed, followed by building construction, paving/concrete installation, and landscape installation. Project construction is anticipated to occur over approximately 48 months and be completed in 2022. It is estimated that approximately 643,753 cubic yards (cy) of soil would be hauled from the Project Site during the grading and excavation phase, as well as an additional 1,490 cy during off-site improvements to the existing sanitary sewer system related to the realignment of Las Palmas Avenue. Haul trucks arriving and leaving the Project Site would travel via one of the following routes: Sunset Boulevard to the Hollywood Freeway; Sunset Boulevard and Highland Avenue to the Hollywood Freeway.

A Construction Traffic Management Plan and Truck Haul Route Program would be implemented during construction to minimize potential conflicts between construction activity and through traffic. The Construction Traffic Management Plan and Truck Haul Route Program would be subject to LADOT review and approval.

2. Greenhouse Gas Emissions Methodology

The California Climate Action Registry (Climate Registry) General Reporting Protocol provides basic procedures and guidelines for calculating and reporting GHG emissions from a number of general and industry-specific activities.² The General Reporting Protocol is based on the "Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard" developed by the World Business Council for Sustainable Development and the World Resources Institute through "a multi-stakeholder effort to develop a standardized approach to the voluntary reporting of GHG emissions."³ Although no numerical thresholds of significance have been developed, and no specific protocols are available for land use projects, the General Reporting Protocol provides a basic framework for calculating and reporting GHG emissions from the project. The information provided in this section is consistent with the General Reporting Protocol's reporting requirements.

² California Climate Action Registry, General Reporting Protocol Version 3.1, January 2009.

³ Ibid.

The General Reporting Protocol recommends the separation of GHG emissions into three categories that reflect different aspects of ownership or control over emissions. They include the following:

- Scope 1: Direct GHG emissions from human activity (e.g., stationary combustion of fuels, mobile combustion of fuels in transportation).
- Scope 2: Indirect GHG emissions associated with activities of the reporting entity but occur at sources controlled by another entity (e.g., purchased electricity or purchased steam).
- Scope 3: Indirect emissions associated with other emissions sources, such as third-party vehicles and embodied energy (e.g., energy used to convey, treat, and distribute water and wastewater).⁴

According to the California Air Resources Board (CARB), the consideration of so-called indirect emissions provides a more complete picture of the GHG footprint of a facility: "As facilities consider changes that would affect their emissions—addition of a cogeneration unit to boost overall efficiency even as it increases direct emissions, for example—the relative impact on total (direct plus indirect) emissions by the facility should be monitored. Annually reported indirect energy usage also aids the conservation awareness of the facility and provides information" to CARB to be considered for future strategies by the industrial sector.⁵ Additionally, the Office of Planning and Research directs lead agencies to "make a good-faith effort, based on available information, to calculate, model, or estimate... GHG emissions from a project, including the emissions associated with vehicular traffic, energy consumption, water usage and construction activities."⁶ Therefore, direct and indirect emissions are considered in this assessment.

The California Emissions Estimator Model (CalEEMod) is a statewide land use emissions computer model designed to provide a uniform platform for government agencies, land use planners, and environmental professionals to quantify potential criteria pollutant and GHG emissions associated with both construction and operations from a variety of land use projects. CalEEMod was developed in collaboration with the air districts of California. Data (e.g., emission factors, trip lengths, meteorology, source inventory, etc.)

⁴ Embodied energy is a scientific term that refers to the quantity of energy required to manufacture and supply to the point of use a product, material, or service.

⁵ California Air Resources Board, Initial Statement of Reasons for Rulemaking, Proposed Regulation for Mandatory Reporting of Greenhouse Gas Emissions Pursuant to the California Global Warming Solutions Act of 2006 (AB 32), (2007).

⁶ Office of Planning and Research, Technical Advisory, p. 5.

have been provided by the various California air districts to account for local requirements and conditions. The model is considered by the SCAQMD to be an accurate and comprehensive tool for quantifying air quality and GHG impacts from land use projects throughout California.⁷

a. Construction

The Project's construction emissions were calculated using CalEEMod Version 2013.2.2. CalEEMod calculates emissions from off-road equipment usage and on-road vehicle travel associated with haul, delivery, and construction worker trips. GHG emissions during construction were forecasted by assuming a conservative start date (i.e., assuming all construction would occur at the earliest feasible date) and applying the mobile-source emissions factors derived from the SCAQMD recommended CalEEMod. The emissions were estimated using the CalEEMod tool, which incorporates the CARB OFFROAD2011 and EMFAC2011 models. These values were applied to the construction phasing assumptions to generate GHG emissions values for each year of construction activity. The calculations of the emissions generated during Project construction activities reflect the types and quantities of construction equipment that would be used to remove existing uses; grade and excavate the Project Site; construct the proposed building and related improvements; and plant new landscaping within the Project Site.

b. Operation

Similar to construction, the SCAQMD-recommended CalEEMod was used to calculate potential GHG emissions generated by new land uses on the Project Site, including area source, energy sources (electricity and natural gas), mobile source, solid waste generation and disposal, and water usage/wastewater generation.

(1) Area Source Emissions

Area source emissions were calculated using the CalEEMod emissions inventory model, which includes fireplaces and landscape maintenance equipment

CalEEMod calculates GHG emissions associated with natural gas fired fireplaces based on emission factors from the California Climate Action Registry (CCAR) assuming an average heating rate in British Thermal Units (BTU) per hour for fireplaces in homes is

⁷ See www.caleemod.com.

60,000 BTU/hr.⁸ Default values for annual fireplace usage were selected for Los Angeles County.

The combustion of fossil fuels to operate landscape equipment such as lawnmowers and trimmers, results in GHG emissions of CO_2 and smaller amounts of CH_4 and N_2O . The emissions occur on-site and are a direct result of activity from the existing land uses; therefore, the GHG emissions are considered to be direct. The emissions for landscaping equipment are based on the size of the land uses, the GHG emission factors for fuel combustion, and the GWP values for the GHGs emitted. Annual GHG emissions from landscaping equipment in units of MTCO₂e are generally calculated in CalEEMod as follows:

Landscaping Equipment:

Annual Emissions [MTCO₂e] = (Σ_i (Units × EF_{LE} × A_{LE} × GWP)_i) ÷ 10⁶

Where: Units = Number of land use units (same land use type) [1,000 sf]

EF_{LE} = GHG emission factor [grams (g)/1,000 sf/day]

A_{LE} = Landscaping equipment operating days per year [day/yr]

GWP = Global warming potential $[CO_2 = 1, CH_4 = 21, N_2O = 310]$

 10^6 = Conversion factor [g/MT]

i = Summation index

Note: For residential land uses, emission factors are specified in units of dwelling units (DU) instead of 1,000 sf.

CalEEMod uses landscaping equipment GHG emission factors from the CARB OFFROAD2011 model and the CARB *Technical Memo: Change in Population and Activity Factors for Lawn and Garden Equipment (6/13/2003).*⁹ CalEEMod estimates that landscaping equipment operate for 250 days per year in the South Coast Air Basin.

⁸ SCAQMD Rule 445 Staff Report, www.aqmd.gov/hb/2008/March/080337a.html, and SCAQMD Final EA, www.aqmd.gov/ceqa/documents/2008/aqmd/finalEA/FEA445.pdf.

⁹ California Air Resources Board, OFFROAD Modeling Change Technical Memo: Change in Population and Activity Factors for Lawn and Garden Equipment, (6/13/2003), www.arb.ca.gov/msei/2001_ residential_lawn_and_garden_changes_in_eqpt_pop_and_act.pdf, accessed March 2, 2016.

(2) Energy Emissions (Electricity and Natural Gas)

GHGs are emitted as a result of activities in buildings when electricity and natural gas are used as energy sources. Combustion of any type of fuel emits CO_2 and other GHGs directly into the atmosphere; when this occurs in a building, it is a direct emission source associated with that building. GHGs are also emitted during the generation of electricity from fossil fuels. When electricity is used in a building, the electricity generation typically takes place off-site at the power plant; electricity use in a building generally causes emissions in an indirect manner.

Energy demand emissions were calculated using the CalEEMod emissions inventory model. Energy use in buildings is divided into energy consumed by the built environment and energy consumed by uses that are independent of the construction of the building such as in plug-in appliances. CalEEMod calculates energy use from systems covered by Title 24 Building Energy Efficiency Standards (e.g., heating, ventilation, and air conditioning [HVAC] system, water heating system, and lighting system); energy use from lighting; and energy use from office equipment, appliances, plug-ins, and other sources not covered by Title 24 or lighting.

CalEEMod energy demand is based on the California Energy Commission (CEC) sponsored California Commercial End Use Survey (CEUS) and Residential Appliance Saturation Survey (RASS) studies.¹⁰ The data is specific for climate zones and, therefore, Zone 11 was selected for the Project Site based on the zip code tool. Since the data from the CEUS is from 2002, CalEEMod incorporates correction factors to account for compliance with the 2008/2010 Title 24 Building Standards Code. However, the model dose not account for the 2013 Title 24 Building Standards Code (2013 CalGreen). Thus, an adjustment was made for the Project scenario to account for compliance with 2013 CalGreen is anticipated to be 25 percent more efficient than the 2008 Title 24 for residential construction and 30 percent more efficient for nonresidential construction.¹¹ Furthermore, an adjustment was made to account for the 2016 Title 24 standards would be applicable to the Project as the Project would be built after January 1, 2017, when the 2016 Title 24 standards come into efficient than the 2013 Title 24 standards are anticipated to be 28 percent more efficient than the 2013 Title 24 standards for residential construction and five percent more efficient for

¹⁰ CEC, October 2010, Commercial End-Use Survey, www.energy.ca.gov/ceus/.

¹¹ Website www.energy.ca.gov/releases/2012_releases/2012-05-31_energy_commission_approves_more_efficient_ buildings_nr.html.

nonresidential construction.¹² CalEEMod also provides the ability to select electricity and natural gas usage rates that would reflect previous versions of Title 24 Building Standards Code. This assessment conservatively assumes that energy demand for the older buildings on the Project site, most of which were constructed in the early 20th Century, under the Baseline scenario would be consistent with 2005 Title 24 Building Standards Code.

(a) Electricity

Emissions of GHGs associated with electricity demand are based on the size of the residential, commercial and retail land uses, the electrical demand factors for the land uses, the GHG emission factors for the electricity utility provider, and the GWP values for the GHGs emitted. Annual electricity GHG emissions in units of $MTCO_2e$ are calculated as follows:

Electricity:

Annual Emissions [MTCO₂e] = (Σ_i (Units × D_E × EF_E × GWP)_i) ÷ 2,204.62

| Where: | Units | = Number of land use units (same land use type) [1,000 sf] |
|--------|----------------|--|
| | D _E | = Electrical demand factor [megawatt-hour (MWh)/1,000 sf/yr] |
| | EF_E | = GHG emission factor [pounds per megawatt-hour (MWh)] |
| | GWP | = Global warming potential [CO ₂ = 1, CH ₄ = 21, N ₂ O = 310] |
| | 2,204.62 | = Conversion factor [pounds/MT] |
| | i | = Summation index |

Note: For residential land uses, emission factors are specified in units of dwelling units (DU) instead of 1,000 sf.

GHG emissions from electricity use are directly dependent on the electricity utility provider. The Los Angeles Department of Water and Power (LADWP) provides electric service to the Project Site. Thus, GHG intensity factors for LADWP were selected in CalEEMod. Intensity factors for GHGs due to electrical generation to serve the electrical demands of the Baseline Condition were obtained from the LAWDP 2013 Power Integrated

¹² State of California Energy Commission, Adoption Hearing, 2016 Building Energy Efficiency Standards, www. energy.ca.gov/title24/2016standards/rulemaking/documents/2015-06-10_hearing/2015-06-10_Adoption_Hearing_ Presentation.pdf, accessed April 7, 2016.

Resource Plan, which provides a CO_2 intensity of 1,094 pounds of CO_2 per MWh.¹³ Currently, LADWP provides 20 percent of electricity via renewable sources.¹⁴ By 2020, LADWP is expecting to meet the State's Renewables Portfolio Standard of at least 33 percent of electricity via renewable sources. Based on data obtained from CARB staff, "[i]f an applicant would like to use an EF [emission factor] that represents the state's Renewable Portfolio Standard (RPS) law and growth in electricity demand, the EF of 595 lbs CO_2 /MWh may be used."¹⁵ According to CARB staff, the "EF represents a 'marginal' supply profile for new generation that will be added to the grid in the years 2020 and beyond, and is consistent with the methodology used in state emission rule impact assessments."¹⁶ Therefore, consistent with the CARB staff recommendation, a CO_2 intensity factor of 595 pounds of CO_2 per MWh was used for electricity emissions for years 2020 and beyond. Emission factors for CH_4 and N_2O were obtained from the California Emissions Estimator Model (CalEEMod).¹⁷

(b) Natural Gas

As with electricity, the emissions of GHGs associated with natural gas combustion are based on the size of the land uses, the natural gas combustion factors for the land uses in units of million British thermal units (MMBtu), the GHG emission factors for natural gas combustion, and the GWP values for the GHGs emitted. Annual natural gas GHG emissions in units of MTCO₂e were calculated as follows:

¹³ Los Angeles Department of Water and Power, 2012 Power Integrated Resource Plan, (2012) C-11.

¹⁴ Los Angeles Department of Water and Power, 2013 Power Integrated Resource Plan, (2013) ES-31.

¹⁵ California Air Resources Board, Statewide Emission Factors (EF) For Use With AB 900 Projects, March 2014. The emission factor of 595 lbs CO₂/MWh is from the California LEV III Initial Statement of Reasons (ISOR, Dec. 7, 2011), www.arb.ca.gov/regact/2012/leviiighg2012/leviiighg2012.htm, based on analysis with CA-GREET model. This document is provided in Appendix A.

¹⁶ California Air Resources Board, Statewide Emission Factors (EF) for Use with AB 900 Projects, March 2, 2016.

¹⁷ California Air Pollution Control Officers Association, California Emissions Estimator Model, www. caleemod.com/, accessed March 2, 2016.

Natural Gas:

Annual Emissions [MTCO₂e] = (Σ_i (Units × D_{NG} × EF_{NG} × GWP)_{*i*}) ÷ 2,204.62

| Where: | Units | = Number of land use units (same land use type) [1,000 sf] |
|--------|-----------------|--|
| | D _{NG} | = Natural Gas combustion factor [MMBtu/1,000 sf/yr] |
| | EF_{NG} | = Natural Gas combustion factor [pounds/MMBtu] |
| | GWP | = Global warming potential [CO ₂ = 1, CH ₄ = 21, N ₂ O = 310] |
| | 2,204.62 | = Conversion factor [pounds/MT] |
| | i | = Summation index |

Note: For residential land uses, emission factors are specified in units of dwelling units (DU) instead of 1,000 sf.

The combustion of natural gas results in relatively equal amounts of GHG emissions per unit of gas combusted in the state. Emission factors for GHGs due to natural gas combustion to serve the heating and cooking demands were obtained from the CalEEMod tool, which provides statewide emission factors.¹⁸

(3) Mobile Source Emissions

Mobile-source emissions were calculated using the CalEEMod emissions inventory model. CalEEMod calculates the emissions associated with on-road mobile sources associated with residents, employees, visitors, and delivery vehicles visiting the Project Site based on the number of daily trips generated and vehicle miles traveled (VMT). CalEEMod calculates VMT based on the type of land use, trip purpose, trip type percentages for each land use subtype in the project (primary, diverted, and pass-by). The model assumes that diverted trips are assumed to be 25 percent of the primary trip lengths and pass-by trips are assumed to be 0.1 mile in length and are a result of no diversion from the primary route. The Los Angeles County urban primary trip distance was selected for this analysis. Modeling was also conducted using the Los Angeles County vehicle fleet mix for all vehicle types as provided in EMFAC2011.

Annual mobile source GHG emissions in units of MTCO₂e were generally calculated in CalEEMod as follows:

¹⁸ California Air Pollution Control Officers Association, California Emissions Estimator Model, www. caleemod.com/, accessed March 2014.

Mobile:

Annual Emissions [MTCO₂e] = (Σ_i (Units × ADT x D_{TRIP} × EF × GWP)_{*i*}) ÷ 2,204.62

| Where: | Units | Number of vehicles (same vehicle model year and class) |
|--------|-------------------|--|
| | ADT | = Average daily trip rate [trips/day] |
| | D _{TRIP} | = Trip distance [miles/trip] |
| | Days | = Number of days per year [days/yr] |
| | EF | = GHG emission factor [pounds per mile] |
| | GWP | = Global warming potential $[CO_2 = 1, CH_4 = 21, N_2O = 310]$ |
| | 2,204.62 | = Conversion factor [pounds/MT] |
| | i | = Summation index |

Note: For residential land uses, emission factors are specified in units of dwelling units (DU) instead of 1,000 sf.

Mobile source operational emissions were calculated based on the project tripgeneration estimates provided for the Project by Gibson Transportation Consulting, Inc. (Included as Appendix A) and were based on the Institute of Transportation Engineers (ITE)'s *Trip Generation, 9th Edition*. Trip length values were based on the residential and commercial trip distances provided in CalEEMod. The trip distances were applied to the maximum daily trip estimates for each land use to estimate the total vehicle miles traveled (VMT). The trips take into account VMT reductions from characteristics including the site's proximity to existing public transit and its urban infill location. The estimated VMT reductions were calculated using the equations and methodologies prescribed in the California Air Pollution Control Officer's Association (CAPCOA) guidance document, *Quantifying Greenhouse Gas Mitigation Measures*, which provides VMT reduction values for transportation characteristics and measures.¹⁹ Specific VMT reduction measures for both the Baseline and Project scenarios are discussed in detail in Section 3.b.3, below.

CalEEMod may not adequately reflect future year GHG emissions because it does not incorporate the emission factors for the 2017–2025 vehicle emissions standards. The national policy for fuel efficiency and emissions standards for the United States auto industry requires that new passenger cars and light-duty trucks achieve an average fuel

¹⁹ California Air Pollution Control Officers Association, Quantifying Greenhouse Gas Mitigation Measures, (2010).

economy standard of 35.5 miles per gallon (mpg) and 250 grams of CO₂ per mile by model year 2016 (Phase I standards), based on USEPA calculation methods. In August 2012, more stringent phased-in standards were adopted for new model year 2017 through 2025 passenger cars and light-duty trucks. By 2020, new vehicles are projected to achieve 41.7 mpg (if GHG reductions are achieved exclusively through fuel economy improvements) and 213 grams of CO_2 per mile (Phase II standards). By 2023, new vehicles are projected to achieve 49.4 mpg (if GHG reductions are achieved exclusively through fuel economy improvements) and 180 grams of CO₂ per mile (Phase II standards). By 2025, new vehicles are required to achieve 54.5 mpg (if GHG reductions are achieved exclusively through fuel economy improvements) and 163 grams of CO₂ per mile (Phase II standards). CARB staff has provided future year CO₂ emission factors for statewide on-road mobile sources that may be used for AB 900 projects if the project's mobile sources include "all vehicle classifications."²⁰ As discussed above, it was assumed that all vehicle types would visit the site. Therefore, this assessment uses the CO₂ emission factors provided by CARB staff to estimate future year GHG emissions from mobile sources.

(4) Solid Waste Emissions

The generation of municipal solid waste (MSW) from day-to-day operational activities generally consists of product packaging, grass clippings, furniture, clothing, bottles, food scraps, newspapers, plastic, and other items routinely disposed of in trash bins. A portion of the MSW is diverted to waste recycling and reclamation facilities. Waste that is not diverted is usually sent to local landfills for disposal. MSW that is disposed in landfills results in GHG emissions of CO_2 and CH_4 from the decomposition of the waste that occurs over the span of many years.

Emissions of GHGs associated with solid waste disposal were calculated using the CalEEMod emissions inventory model. The emissions are based on the size of the commercial and retail land uses, the waste disposal rate for the land uses, the waste diversion rate, the GHG emission factors for solid waste decomposition, and the GWP values for the GHGs emitted. Annual waste disposal GHG emissions in units of MTCO₂e were calculated in CalEEMod as follows:

²⁰ California Air Resources Board, Statewide Emission Factors (EF) for Use with AB 900 Projects, March 2014.

Solid Waste:

Annual Emissions [MTCO₂e] = (Σ_i (Units × D_{MSW} × EF_{MSW} × GWP)_{*i*}) ÷ 1.1023

Where:Units= Number of land use units (same land use type)[1,000 sf] D_{MSW} = Waste disposal rate [tons/1,000 sf/yr] EF_{MSW} = GHG emission factor [tons/ton waste]GWP= Global warming potential [CO₂ = 1, CH₄ = 21, N₂O = 310]1.1023= Conversion factor [tons/MT]i= Summation index

Note: For residential land uses, emission factors are specified in units of dwelling units (DU) instead of 1,000 sf.

CalEEMod allows the input of several variables to quantify solid waste emissions. The model requires the amount of waste disposed, which is the product of the waste disposal rate times the land use units. Annual solid waste disposal rates used in CalEEMod are based on data from the California Department of Resources Recycling and Recovery (CalRecycle). The rates were based on statewide averages and the total amount of waste disposed was reduced by the diversion of 50 percent, pursuant to the City of Los Angeles Solid Waste Management Policy Plan, which was adopted by the City to comply with Assembly Bill 939. The GHG emission factors, particularly for CH₄, depend on characteristics of the landfill, such as the presence of a landfill gas capture system and subsequent flaring or energy recovery. The default values, as provided in CalEEMod, for landfill gas capture (e.g., no capture, flaring, energy recovery), which are statewide averages, were used in this assessment.

(5) Water Usage and Wastewater Generation Emissions

GHG emissions are related to the energy used to convey, treat, and distribute water and wastewater. Thus, these emissions are generally indirect emissions from the production of electricity to power these systems. Three processes are necessary to supply potable water and include: (1) supply and conveyance of the water from the source; (2) treatment of the water to potable standards; and (3) distribution of the water to individual users. After use, energy is used as the wastewater is treated and reused as reclaimed water.

Emissions related to water usage and wastewater generation were calculated using the CalEEMod emissions inventory model. The emissions are based on the size of the

land uses, the water demand factors, the electrical intensity factors for water supply, treatment, and distribution and for wastewater treatment, the GHG emission factors for the electricity utility provider, and the GWP values for the GHGs emitted. Annual water demand and wastewater GHG emissions due to electricity are calculated in CalEEMod as follows for indoor and outdoor water demand:

Water Supply, Treatment, and Distribution; Wastewater Treatment (electricity):

Annual Emissions [MTCO₂e] = (Σ_i (Units × D_W × (EI_W ÷ 1,000) × EF_W × GWP)_i) ÷ 2,204.62

| Where: | Units | = Number of land use units (same land use type) [1,000 sf] |
|--------|----------|--|
| | D_W | = Water demand factor [million gallons (Mgal)/1,000 sf/yr] |
| | EI_W | = Electricity intensity factor [kilowatt-hours (kWh)/Mgal] |
| | 1,000 | = Conversion factor [kWh/MWh] |
| | EF_W | = GHG emission factor [pounds/MWh] |
| | GWP | = Global warming potential [CO ₂ = 1, CH ₄ = 21, N ₂ O = 310] |
| | 2,204.62 | = Conversion factor [pounds/MT] |
| | i | = Summation index |

Note: For residential land uses, emission factors are specified in units of dwelling units (DU) instead of 1,000 sf.

CalEEMod calculates water demand based on annual rates in the Pacific Institute Waste Not Want Not report.²¹ CalEEMod provides options to account for the use of water saving features such as the use of low-flow water fixtures (e.g., low-flow faucets, low-flow toilets). The same electricity GHG emissions factors discussed above were used for water and wastewater energy usage.

The emissions of GHGs associated with wastewater treatment process emissions were also calculated using CalEEMod. The emissions were calculated using the default settings in CalEEMod for the type of wastewater treatment.

²¹ Gleick, P.H.; Haasz, D.; Henges-Jeck, C.; Srinivasan, V.; Cushing, K.K.; Mann, A. 2003. Waste Not, Want Not: The Potential for Urban Water Conservation in California. Pacific Institute for Studies in Development, Environment, and Security. Full report www.pacinst.org/reports/urban_usage/waste_not_ want_not_full_report.pdf. Appendices www.pacinst.org/reports/urban_usage/appendices.htm.

3. Greenhouse Gas Emissions Calculations

The Project would result in direct and indirect GHG emissions generated by different types of emissions sources, including:

- Construction: emissions associated with demolition of the existing parking lot, site preparation, excavation, grading, and construction-related equipment and vehicular activity;
- Area Source: emissions associated with hearths and landscape equipment; ²²
- Building operations: emissions associated with space heating and cooling, water heating, energy consumption, and lighting;
- Solid waste: emissions associated with the decomposition of the waste which generates methane based on the total amount of degradable organic carbon; and
- Water: emissions associated with energy used to pump, convey, deliver, and treat water.

A specific discussion regarding potential GHG emissions associated with the construction and operational phases of the Baseline Condition and Project is provided below.

a. Construction

Project construction would commence with demolition of the existing buildings and surface parking lots, followed by excavation and grading for the subterranean parking garages. Building foundations would then be placed, followed by building renovations of the historic Crossroads of the World complex and building construction, paving/concrete installation, and landscape installation. Project construction is anticipated to occur over approximately 48 months and be completed in 2022. It is estimated that approximately 707,500 cubic yards (cy) of soil would be hauled from the Project Site during the excavation and grading phase. A summary of construction details (e.g., schedule, equipment mix, and vehicular trips) and CalEEMod modeling output files are provided in Appendix A of this assessment. The emissions of GHGs associated with construction of

²² Area source emissions include direct sources of GHG emissions located at the project site (e.g., hearths) with the exception of building operations. For the Project, this would be limited to landscape maintenance equipment.

the Project were calculated for each year of construction activity. A summary of GHG emissions for each year of construction is presented in Table 4 on page 30.

b. Operation

(1) Area Source Emissions

Area source emissions were calculated for both the Baseline and Project scenarios. The Project scenario includes a reduction in GHG emissions due to a commitment to limit the use of natural gas fired fireplaces to 20 percent of the proposed residential units. The estimated annual emissions from area sources under Baseline and Project are provided in Table 5 on page 30. Detailed emissions calculations are provided in Appendix A of this assessment.

(2) Energy Emissions (Electricity and Natural Gas)

(a) Electricity

As discussed above in Section 2, Methodology, the Baseline condition assumes that the existing land uses would meet 2005 Title 24 Building Standards Code. This assumption is conservative as most of the existing structures were constructed in the early 20th Century. The estimated annual emissions from electrical demand from the Baseline Condition are provided in Table 6 on page 31. Detailed emissions calculations are provided in Appendix A.

The Project would be designed to incorporate project design features (PDFs) that would reduce its energy demand with the goal of achieving or exceeding the requirements of the State of California Green Building Standards (CALGreen) Code, the City of Los Angeles Green Building Code, and the USGBC LEED Silver rating. Thus, the Project would reduce its electricity demand as compared to the default electricity factors in CalEEMod. The PDFs were accounted for in CalEEMod by selecting the appropriate options in the "mitigation measures" section of the model. A summary of the energy-efficiency PDFs is provided below:

Green Building Measures: The Project would be designed and operated to meet or exceed the applicable requirements of the State of California Green Building Standards Code and the City of Los Angeles Green Building Code and achieve the USGBC LEED Silver Certification. The Project would incorporate measures and performance standards to support its LEED Silver Certification, which include but are not limited to the following:

| Table 4 |
|---------------------------------------|
| Construction-Related Emissions |
| (metric tons of CO ₂ e) |

| Year | Annual Metric Tons CO ₂ e ^a |
|---|--|
| 2018 | 4,302 |
| 2019 | 1,556 |
| 2020 | 1,532 |
| 2021 | 1,227 |
| CO₂e was calculated using CalEEMod the Construction CalEEMod output file Source: Eyestone Environmental, 2016. | and the results are provided in Section 2.0 of within Appendix A of this assessment. |

| GHG Emissions Source | Annual GHG Emissions (MTCO ₂ e/yr) |
|----------------------|--|
| Baseline | · |
| Fireplaces | 26.8 |
| Landscaping | 1.5 |
| Total | 28.3 |
| Project | · |
| Fireplaces | 45.9 |
| Landscaping | 16.4 |
| Total | 62.3 |

 Table 5

 Area Source Greenhouse Gas Emissions

 The Project would implement a construction waste management plan to recycle and/or salvage a minimum of 75 percent of nonhazardous construction debris or minimize the generation of construction waste to 2.5 pounds per square foot of building floor area. (LEED Materials and Resources Credit 5 [v4]²³);

²³ The bracketed text "v4" denotes version 4 of the LEED Building Design and Construction credits.

Table 6Electrical Demand Greenhouse Gas Emissions

| Land Use | Units (sf or DU) | Annual Electrical Demand Factor (MWh/ 1,000 sf/year) | Annual Electrical Demand (MWh/year) | Annual GHG Emissions ^a (MTCO ₂ e/yr) |
|--|---------------------|--|--|--|
| Baseline | | | | |
| Apartments (Low Rise) | 84 du | 3,612 | 303.4 | 150.9 |
| Office | 79,107 sf | 15.2 | 1,205.6 | 599.6 |
| Restaurant | 475 sf | 48.3 | 23.0 | 11.4 |
| Retail | 26,690 sf | 16.0 | 426.0 | 211.9 |
| Parking Lot (Spaces) | 344 sp | 0.9 | 121.1 | 60.2 |
| Total Baseline | | | 2,079.1 | 1,034.0 |
| Project | | | | · |
| Apartments High Rise | 760 du | 3,382.7 | 2,339.0 | 633.9 |
| Condominiums High Rise | 190 du | 4,235.2 | 727.4 | 197.1 |
| Hotel (Rooms) | 308 rm | 7.4 | 2,885.7 | 782.0 |
| Office | 95,000 sf | 12.6 | 1,040.1 | 281.9 |
| Restaurant (High Quality) | 41,600 sf | 43.4 | 1,621.2 | 439.3 |
| Restaurant (High Turnover) | 41,600 sf | 43.4 | 1,688.4 | 457.6 |
| Retail | 61,800 sf | 13.5 | 703.3 | 190.6 |
| Supermarket | 40,000 sf | 37.3 | 1,264.6 | 342.7 |
| Parking Structure (Spaces) | 2,596 sp | 3.0 | 2,310.0 | 626.0 |
| Total Project | | | 14,580 | 3,951.2 |
| du = dwelling units sf = square feet sp = spaces | | | | |
| rm = rooms ^a Totals may not add up exa Source: Eyestone Environme | • | ng in the modeling cal | culations. | |

- The Project would be designed to optimize energy performance and reduce building energy cost by 10 percent for new construction compared to ASHRAE 90.1-2010, Appendix G and the Title 24 Building Standards Code. (LEED Energy and Atmosphere Credit 2 [v4]);
- The Project would reduce emissions through the use of grid-source, renewable energy technologies and carbon mitigation projects. The Project would engage in a contract for qualified resources, for a purchase of 261,246 MTCO₂e to offset GHG emissions resulting from the life of the project (30 years).

Project lighting would be energy efficient, effective and aesthetically pleasing and would minimize light trespass from the Project Site. All on-site exterior lighting would be automatically controlled to illuminate only when necessary and would be shielded or directed toward areas to be illuminated and, thereby, limit spillover onto nearby residential areas. In addition, all interior lighting would be equipped with occupancy sensors that would automatically extinguish and/or dim lights when not in use. Electricity from lighting would also be reduced consistent with the Energy Independence and Security Act, which requires approximately 25 percent greater efficiency for light bulbs by phasing out incandescent light bulbs between 2012 and 2014.

The estimated annual emissions from electrical demand from the Project are provided in Table 6 on page 31. Detailed emissions calculations are provided in Appendix A.

(b) Natural Gas

As discussed above in Section 2, Methodology, the Baseline condition assumes that the existing land uses would meet 2005 Title 24 Building Standards Code. This assumption is conservative as many of the existing structures were built well before 2005. The estimated annual emissions from natural gas demand from the Baseline Condition are provided in Table 6. Detailed emissions calculations are provided in Appendix A.

The Project would be designed to incorporate PDFs that would reduce its energy demand with the goal of achieving or exceeding the requirements of the State of California Green Building Standards (CALGreen) Code, the City of Los Angeles Green Building Code, and the USGBC LEED Silver rating. Thus, the Project would reduce its electricity demand as compared to the default electricity factors in CalEEMod. The PDFs were accounted for in CalEEMod by selecting the appropriate options in the "mitigation measures" section of the model.

The Project would be designed to incorporate PDFs that would reduce its energy demand with the goal of achieving or exceeding the requirements of the CALGreen Code, the City of Los Angeles Green Building Code, and the USGBC LEED Silver rating. Thus, the Project would reduce its natural gas demand as compared to the default natural gas factors in CalEEMod. The PDFs were accounted for in the CalEEMod tool by selecting the appropriate options in the "mitigation measures" section of the model. A summary of the energy-efficiency PDFs is provided above in PDF-GHG-1.

The estimated annual emissions from natural gas combustion from the Project are provided in Table 7 on page 33. Detailed emissions calculations are provided in Appendix A.

| Table 7 |
|---|
| Natural Gas Combustion Greenhouse Gas Emissions |

| 84 du 07 sf | 14,251.6 | 1,197.1 | 64.3 |
|----------------|---|--|---|
| | | 1,197.1 | 64.3 |
| 07 sf | 12.4 | | |
| | 12.4 | 984.1 | 52.8 |
| 75 sf | 234.4 | 111.3 | 6.0 |
| 690 sf | 1.8 | 48.6 | 2.6 |
| 44 sp | 0 | 0 | 0 |
| | | 2,341.1 | 125.7 |
| | | | |
| '60 du | 5,530.4 | 3,909.1 | 209.9 |
| 90 du | 13,676.8 | 2,396.6 | 128.7 |
| 08 rm | 18.7 | 7,720.3 | 414.5 |
| 00 sf | 7.8 | 668.0 | 35.9 |
| 00 sf | 219.4 | 8,997.0 | 483.0 |
| 00 sf | 219.4 | 8,997.0 | 483.0 |
| 00 sf | 1.3 | 77.6 | 4.2 |
| 00 sf | 19.5 | 750.6 | 40.3 |
| 96 sp | 0 | 0 | 0 |
| | | 33,516.2 | 1,799.4 |
| | 760 du 944 sp 760 du 90 du 900 sf 900 sf 900 sf 900 sf 900 sf 900 sf 900 sf | 344 sp 0 760 du 5,530.4 90 du 13,676.8 308 rm 18.7 000 sf 7.8 600 sf 219.4 600 sf 1.3 000 sf 1.3 | 844 sp 0 0 760 du 5,530.4 3,909.1 190 du 13,676.8 2,396.6 308 rm 18.7 7,720.3 000 sf 7.8 668.0 500 sf 219.4 8,997.0 500 sf 1.3 77.6 500 sf 1.3 750.6 500 sf 0 0 |

(3) Mobile Source Emissions

Emissions of GHGs from motor vehicles are dependent on model years and the specific types of vehicles that are used to travel to and from the existing Project Site. The emissions were calculated using a representative motor vehicle fleet mix for year 2015 as provided in CalEEMod. The estimated annual emissions from mobile sources from the Baseline Condition are provided in Table 8 on page 34. Detailed emissions calculations are provided in Appendix A.

| Condition | Fleet Mix Year (All Vehicle Classes) | Estimated Annual VMT | CO₂ Emission Factor (grams/mile) | Annual GHG Emissionsª (MTCO₂e/year) |
|-------------------|--|-------------------------|--|---|
| Baseline | 2015 | 4,857,412 | CalEEMod ^a | 2,296 |
| Project | 2022 | 28,223,330 | 400 | 11,289 |
| | 2023 | 28,223,330 | 391 | 11,035 |
| | 2024 | 28,223,330 | 384 | 10,838 |
| | 2025–Beyond | 28,223,330 | 375 | 10,584 |
| a Mobile source (| _ | | irect model result output | · · · |

Table 8Mobile Source Greenhouse Gas Emissions

The Project represents an infill development within an existing urbanized area that would concentrate new residential, office, and neighborhood serving commercial uses within a High-Quality Transit Area (HQTA), which is defined in SCAG's 2012–2035 RTP/SCS as generally walkable transit villages or corridors that are within 0.5 mile of a well-serviced transit stop or a transit corridor with 15-minute or less service frequency during peak commute hours. The Project site is located approximately 0.13 mile from the Metro Red Line Station at Hollywood Boulevard and Highland Avenue. As such, the Project Site's location would support the use of public transportation and a reduction in vehicle miles traveled by Project residents.

The Project would incorporate characteristics and PDFs that would reduce trips and VMT as compared to standard ITE trip generation rates. The Project characteristics listed below are consistent with the CAPCOA guidance document, *Quantifying Greenhouse Gas Mitigation Measures*,²⁴ which provides emission reduction values for recommended mitigation measures, and would reduce VMT and vehicle trips to the Project site by approximately 46 percent compared to a development without these characteristics. They would therefore result in a corresponding reduction in VMT and associated GHG emissions.

• Increase Density (LUT-1): Increased density, measured in terms of persons, jobs, or dwelling units per unit area, reduces emissions associated with

²⁴ California Air Pollution Control Officers Association, Quantifying Greenhouse Gas Mitigation Measures, (2010).

transportation as it reduces the distance people travel for work or services and provides a foundation for the implementation of other strategies, such as enhanced transit services. The Project would increase the site density from 11 dwelling units per acre and 10 jobs per acre to approximately 119 dwelling units per acre and 208 jobs per acre.

- **Increase Location Efficiency (LUT-2):** Location efficiency describes the location of the Project relative to the type of urban landscape, such as an urban area, compact infill, or suburban center. In general, compared to the statewide average, a project could realize VMT reductions up to 65 percent in an urban area, up to 30 percent in a compact infill area, or up to 10 percent in a suburban center from land use/location strategies. The Project Site represents an urban/compact infill location within the Hollywood community of the City of Los Angeles. The Project Site is served by existing public transportation located within 0.25 mile. The Project Site is also located within the Hollywood Center, which is generally located on both sides of Hollywood and Sunset Boulevards between La Brea Avenue and Gower Street.²⁵ The Community Plan calls for the Hollywood Center to function as: (1) the commercial center for Hollywood and surrounding communities; and (2) an entertainment center for the entire region. The Community Plan further states that development, combining residential and commercial uses, is especially encouraged in the Hollywood Center. The location efficiency of the Project Site would result in benefits that would reduce vehicle trips and VMT compared to the statewide average and would result in corresponding reductions in transportation-related emissions.
- Increase Diversity of Urban and Suburban Developments (Mixed-Uses) (LUT-3): The Project would co-locate complementary commercial and residential land uses in proximity to other existing off-site commercial and residential uses. The Project would also introduce new uses on the Project Site, including a new hotel and increase in open space. The increases in land use diversity and mix of uses on the Project Site would reduce vehicle trips and VMT by encouraging walking and non-automotive forms of transportation, which would result in corresponding reductions in transportation-related emissions.
- Increased Destination Accessibility (LUT-4): The Project would be located in an area that offers access to multiple other nearby retail and entertainment destinations, including Hollywood & Highland Center located approximately 0.13 mile to the northwest of the Project Site. In addition, the Project Site is located within 5.5 miles of Downtown Los Angeles, a primary job center, also easily accessible by public transportation (including the Metro Red Line, which connects the Hollywood/Highland Station to several stations in Downtown Los Angeles and North Hollywood). The access to multiple destinations in proximity

²⁵ City of Los Angeles, Hollywood Community Plan, December 13, 1988, p. HO-2.

to the Project Site would reduce vehicle trips and VMT compared to the statewide average and encourage walking and non-automotive forms of transportation and would result in corresponding reductions in transportation-related emissions.

- Increase Transit Accessibility (LUT-5): The Project would be located approximately 0.13 mile from the Metro Red Line Hollywood/Highland Station and along several Metro transit and DASH routes. The Project would also provide adequate bicycle parking spaces for residential and commercial uses to encourage utilization of alternative modes of transportation.
- Integrate Affordable and Below Market Rate Housing (LUT-6): Below market rate housing provides greater opportunity for people to live closer to job centers and to accommodate more people in urban infill areas. The Project would include 84 below market rate dwelling units, which would result in an increase in alternative transit usage and a corresponding reduction in transportation-related emissions as income has a statistically significant effect on the probability that a commuter would take transit or walk to work.
- Improve Design of Development (LUT-9): The project would include improved design elements including developing ground floor retail, pedestrian paseos, open space and improved streetscape which would enhance walkability in the project vicinity. The Project would also locate a development in an area with 113 intersections per square mile which improves street accessibility and connectivity.
- **Provide Pedestrian Network Improvements (SDT-1):** Providing pedestrian access that minimizes barriers and links the Project Site with existing or planned external streets encourages people to walk instead of drive. The Project would provide an internal pedestrian network that links to the existing off-site pedestrian network including existing off-site sidewalks, to encourage and increase pedestrian activities in the area, which would further reduce VMT and associated transportation-related emissions. Furthermore, the Project would result in an improved and aesthetically appealing streetscape that would promote pedestrian activity, particularly between the Metro Red Line Hollywood/Highland Station and the Hollywood & Highland Center and the Project Site, and enhance the urban lifestyle of the surrounding neighborhood.
- **Traffic Calming Measures (SDT-2):** Providing traffic calming measures encourages people to walk or bike instead of using a vehicle. This mode shift results in a decrease in VMT. Streets within 0.5 mile of the Project Site are equipped with sidewalks, and approximately 25 percent of the intersections include marked crosswalks and/or count-down signal timers.

The estimated annual emissions from mobile sources from the Project are provided in Table 8 on page 34. Detailed emissions calculations are provided in Appendix A.

(4) Solid Waste Emissions

Emissions of GHGs associated with solid waste disposal were calculated using the CalEEMod emissions inventory model. The emissions are based on the size of the commercial and retail land uses, the waste disposal rate for the land uses, the waste diversion rate, the GHG emission factors for solid waste decomposition, and the GWP values for the GHGs emitted. Annual solid waste disposal rates used in CalEEMod are based on data from the California Department of Resources Recycling and Recovery (CalRecycle). The rates were based on statewide averages and the total amount of waste disposed was reduced by the diversion rate of 50 percent, pursuant to the City of Los Angeles Solid Waste Management Policy Plan, which was adopted by the City to comply with Assembly Bill 939. The estimated annual emissions from solid waste disposal from the Baseline Condition and Project are provided in Table 9 on page 38. Detailed emissions calculations are provided in Appendix A.

(5) Water Usage and Wastewater Generation Emissions

The Baseline condition assumes that the existing land uses would not include any reductions in indoor and outdoor water usage in comparison to CalEEMod default usage rates. This assumption is conservative based on the age of many of the existing structures on the Project site. The estimated annual emissions from water and wastewater from the Baseline Condition are provided in Table 10 on page 39. Detailed emissions calculations are provided in Appendix A.

The Project would be designed to incorporate PDFs that would reduce its indoor and outdoor water usage with the goal of achieving or exceeding the requirements of the State of California Green Building Standards (CALGreen) Code, the City of Los Angeles Green Building Code, and the USGBC LEED Silver rating. Thus, the Project would reduce its indoor and outdoor water usage as compared to the default factors in CalEEMod. The PDFs were accounted for in CalEEMod by selecting the appropriate options in the "mitigation measures" section of the model. A summary of the water-efficiency PDFs is provided below:

- The Project would reduce indoor water use by a minimum of 35 percent by installing water fixtures that exceed applicable standards. (LEED Water Efficiency Credit 2 [v4].)
- The Project would reduce outdoor water us by a minimum of 50 percent from the calculated baseline at peak watering month by installing efficient irrigation.

| Land Use | Waste Disposal Rate (tons/yr) | Waste Disposal Rate after 50% Diversion (tons/yr) | Annual GHG Emissions ^a (MTCO₂e/yr) |
|----------------------------|----------------------------------|---|---|
| Baseline | | | |
| Apartments (Low Rise) | 38.6 | 19.3 | 8.8 |
| Office | 73.6 | 36.8 | 16.7 |
| Restaurant | 5.7 | 2.9 | 1.3 |
| Retail | 28 | 14 | 6.4 |
| Parking Lot (Spaces) | 0 | 0 | 0 |
| Total | | | 33.2 |
| Project | | | |
| Apartments High Rise | 349.6 | 174.8 | 79.5 |
| Condominiums High Rise | 87.4 | 43.7 | 19.9 |
| Hotel (Rooms) | 168.6 | 84.3 | 38.4 |
| Office | 88.34 | 44.2 | 20.1 |
| Restaurant (High Quality) | 38 | 19 | 8.6 |
| Restaurant (High Turnover) | 495 | 247.5 | 112.6 |
| Retail | 64.9 | 32.4 | 14.8 |
| Supermarket | 225.6 | 112.8 | 51.3 |
| Parking Structure (Spaces) | 0 | 0 | 0 |
| Total | | | 345.2 |

Table 9Baseline Condition Solid Waste Disposal Greenhouse Gas Emissions

The estimated annual emissions from water and wastewater from the Project are provided in Table 10 on page 39. Detailed emissions calculations are provided in Appendix A.

(6) Summary of GHG Emissions and Comparison to Baseline Condition

Table 11 on page 40 provides a summary of the determination of net additional GHG emissions comparing the existing site GHG emissions and the Project GHG emissions. As shown in Table 11, the Project site generates approximately 3,757 metric tons of carbon dioxide equivalents (MTCO₂e) per year under the Baseline Condition. This excludes any one-time construction GHG emissions that were generated when the existing uses and related infrastructure were originally built. Construction of the Project would

| Land Use | Indoor Water Demand ^a (Mgal/yr) | Outdoor Water Demand ^a (Mgal/yr) | Annual GHG Emissions ^ª (MTCO₂e/yr) |
|----------------------------|--|---|---|
| Baseline | | | |
| Apartments (Low Rise) | 5.5 | 3.5 | 61.3 |
| Office | 14.1 | 8.6 | 156.1 |
| Restaurant | 0.2 | <0.1 | 1.2 |
| Retail | 2.0 | 1.2 | 22.0 |
| Parking Lot (Spaces) | 0 | 0 | 0 |
| Total | | | 240.5 |
| Project | | | |
| Apartments High Rise | 32.2 | 15.6 | 196.5 |
| Condominiums High Rise | 8.1 | 3.9 | 49.1 |
| Hotel (Rooms) | 5.1 | 0.4 | 24.9 |
| Office | 11.0 | 2.2 | 66.6 |
| Restaurant (High Quality) | 8.2 | 0.4 | 39.4 |
| Restaurant (High Turnover) | 8.2 | 0.4 | 39.4 |
| Retail | 3.0 | 1.4 | 18.1 |
| Supermarket | 3.2 | <0.1 | 15.1 |
| Parking Structure (Spaces) | 0 | 0 | 0 |
| Total | | | 449.0 |

 Table 10

 Baseline Condition Water and Wastewater Greenhouse Gas Emissions

Source: Eyestone Environmental, 2016.

generate one-time GHG emissions of approximately 4,302 MTCO₂e per year during the first year, 1,556 MTCO₂e during the second year, 1,532 MTCO₂e per year during the third year, and 1,227 MTCO₂e during the fourth year. At Project buildout, the Project Site would generate approximately 17,955 MTCO₂e during the first full year of operation. Future year emissions would decline as a greater percentage of motor vehicles meet more stringent emissions standards, including the Pavley Phase I and Phase II emissions standards, and power companies meet the 33 percent Renewables Portfolio Standard. In 2030, annual Project emissions would be reduced to approximately 15,736 MTCO₂e. As shown in Table 11 on page 40, the Project would commit to purchase electricity from green power,

 Table 11

 Summary of Annual GHG Emissions (MTCO2e/yr)

| GHG Emission Source | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025–2029 | 2030–205 |
|--------------------------------------|---------|---------|---------|---------|----------|----------|----------|-----------|----------|
| Baseline | | | | | | | | 1 | |
| Area | | | | | 28 | 28 | 28 | 28 | 28 |
| Energy | | | | | 1,160 | 1,160 | 1,160 | 1,160 | 1,160 |
| Mobile | | | | | 2,296 | 2,296 | 2,296 | 2,296 | 2,296 |
| Waste | | | | | 33 | 33 | 33 | 33 | 33 |
| Water | | | | | 241 | 241 | 241 | 241 | 241 |
| Total | | | | | 3,757 | 3,757 | 3,757 | 3,757 | 3,757 |
| Project | | | | | | | | | |
| Construction | 4,302 | 1,556 | 1,532 | 1,227 | 0 | 0 | 0 | 0 | 0 |
| Area | | | | | 62 | 62 | 62 | 62 | 62 |
| Energy | | | | | 5,751 | 5,751 | 5,751 | 5,751 | 4,415 |
| Mobile | | | | | 11,289 | 11,035 | 10,838 | 10,584 | 10,584 |
| Waste | | | | | 345 | 345 | 345 | 345 | 345 |
| Water | | | | | 449 | 449 | 449 | 449 | 330 |
| Total | 4,302 | 1,556 | 1,532 | 1,227 | 17,896 | 17,642 | 17,445 | 17,191 | 15,736 |
| Project less Baseline | 4,302 | 1,556 | 1,532 | 1,227 | 14,139 | 13,885 | 13,688 | 13,434 | 11,979 |
| Greenpower/Offsets/RECs ^a | (4,302) | (1,556) | (1,532) | (1,227) | (14,139) | (13,885) | (13,688) | (13,434) | (11,979) |
| Difference | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Exceed Baseline? | No | No | No | No | No | No | No | No | No |

^a Total Greenpower/Offsets/RECs required for the life of the Project (30 years) equal 261,246 MT CO₂e.

Source: Eyestone Environmental, 2016.

carbon offsets, and/or RECs for the life of the project (30 years) with an equivalent reduction value of 261,246 MT CO_2e .²⁶

Based on this assessment, the Project would not result in any net additional GHGs including GHG emissions from employee transportation in accordance with Public Resources Code Section 21183(c) with the purchase of emission offset credits. Therefore, the Project would meet the GHG emissions requirements for streamlined environmental review under CEQA.

²⁶ SCAQMD recommends a 30-year lifetime for Projects (SCAQMD Governing Board Agenda Item 31, December 5, 2008). The SCAQMD clarified that offsets should have a 30 year project life, should be real, quantifiable, verifiable, and surplus and will be considered in the following prioritized manner: (1) Project design feature/on-site reduction measures; (2) Offsite within neighborhood; (3) Offsite within district; (4) Offsite within state; and (5) Offsite out of state.





Crossroads Hollywood

Application for CEQA Streamlining Appendix A, Greenhouse Gas Worksheets

- Summary of Assumptions and Emissions
- CalEEMod Output (Project Construction)
- CalEEMod Output (Existing Conditions)
- CalEEMod Output (Project Conditions)
- CalEEMod Output (Project Conditions Post 2030 RPS)

Crossroads Hollywood Application for CEQA Streamlining

• Summary of Assumptions and Emissions

| PROJECT (Daily Trip | Generation) | | | | | | | | CalEEMo | od Default Daily Ra | ates | | Adjus | ted Daily Rat | es |
|------------------------|--------------------------|---------|-------|---------|--------------|---------------|---------------------------|-------|---------|---------------------|--------|--------|---------|---------------|-------------|
| | size | e daily | tr | ip rate | Fransit/Walk | Internal | Pass-by | weekd | ay sat | t sui | n | Scalar | weekday | sat | sun |
| Apar | rtments (du) | 760 | 5054 | 6.65 | CalEEMod | was used to c | alculate these reductions | | 6.59 | 7.16 | 6.07 | 1.01 | 6.65 | 7.23 | 6.13 |
| High | -Rise Condominiums (ksf) | 190 | 794 | 4.18 | CalEEMod | was used to c | alculate these reductions | | 6.59 | 7.16 | 6.07 | 0.63 | 4.18 | 4.54 | 3.85 |
| Hote | el (rooms) | 308 | 2516 | 8.17 | CalEEMod | was used to c | alculate these reductions | | 8.17 | 8.19 | 5.95 | 1.00 | 8.17 | 8.19 | 5.95 |
| Offic | e (ksf) | 95 | 1048 | 11.03 | CalEEMod | was used to c | alculate these reductions | | 11.01 | 2.37 | 0.98 | 1.00 | 11.03 | 2.3 | 0.98 |
| Reta | il (ksf) | 61.8 | 2639 | 42.70 | CalEEMod | was used to c | alculate these reductions | | 44.32 | 42.04 | 20.43 | 0.96 | 42.70 | 40.50 |) 19.68 |
| Supe | ermarket (ksf) | 40 | 4090 | 102.24 | CalEEMod | was used to c | alculate these reductions | | 102.24 | 177.59 | 166.44 | 1.00 | 102.24 | 177.59 | 166.44 |
| Rest | High Quality (ksf) | 41.6 | 3742 | 89.95 | CalEEMod | was used to c | alculate these reductions | | 89.95 | 94.36 | 72.16 | 1.00 | 89.95 | 94.36 | 5 72.16 |
| Rest | High Turnover(ksf) | 41.6 | 5289 | 127.15 | CalEEMod | was used to c | alculate these reductions | | 127.15 | 158.37 | 131.84 | 1.00 | 127.15 | 158.37 | 7 131.84 |
| Park | ing Structure | 2596 | 0 | 0.00 | CalEEMod | was used to c | alculate these reductions | | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.00 |
| Tota | l: | | 25172 | | | | | | | | | | | | |
| Existing (Daily Trip G | Conception) | | | | | | | | CalEEMa | od Default Dailv Ra | tor | | | | |
| Existing (Daily Trip G | size | e daily | ** | ip rate | Fransit/Walk | Internal | Pass-by | weekd | | | | | weekday | sat | CU10 |
| | | | | | | | , | weeku | , | | | 4.04 | , | | sun |
| | rtments (du) | 84 | 559 | 6.65 | | | alculate these reductions | | 6.59 | 7.16 | 6.07 | 1.01 | 6.65 | | |
| Offic | e (ksf) | 79.107 | 873 | 11.03 | CalEEMod | was used to c | alculate these reductions | | 11.01 | 2.37 | 0.98 | 1.00 | 11.03 | 2.3 | 0.98 |
| Rest | (ksf) | 0.475 | 60 | 127.15 | CalEEMod | was used to c | alculate these reductions | | 127.15 | 158.37 | 131.84 | 1.00 | 127.15 | 158.37 | 131.84 |
| Reta | il (ksf) | 26.69 | 1140 | 42.70 | CalEEMod | was used to c | alculate these reductions | | 44.32 | 42.04 | 20.43 | 0.96 | 42.70 | 40.50 |) 19.68 |
| Park | ing Lot | 344 | 0 | 0.00 | CalEEMod | was used to c | alculate these reductions | | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.00 |
| Tota | l: | | 2631 | | | | | | | | | | | | |

Applicable VMT Reduction Measures selected in CalEEMod based on CAPCOA's Quantifying Greenhouse Gas Mitigation Measures, August, 2010.

| LUT-1: | Increase Density LUT-1 CAPCOA measures dwellings per acre and jobs per acre . Data Needed: number of housing units per acre or jobs per acre | DU/Acre | Jobs/Acre | |
|-------------|---|---------------|-----------------------|-------|
| | Project: 8.0 acres, 950 residential units, 1660 employees | | 118.75 | 207.5 |
| | Existing: 8.0 acres, 84 residential units, 82 employees | | 10.5 | 10.25 |
| LUT-3 | Increase Diversity of Urban and Suburban Developments (Mixed Use) (Internally calculated i | n CalEEMod ba | sed on mix of land us | es) |
| LUT-4 | Increase Destination Accessibility | | | |
| | Distance to downtown/job center (Los Angeles) | | 5.5 miles | |
| LUT-5 | Increase Transit Accessibility (0.5-24.6% reduction) | | 0.40 1 | |
| | Distance to Metro Red Line Station at Hollywood Boulevard and Highland Avenue | | 0.13 miles | |
| LUT-6 | Integrate Below Market Rate Housing | | | |
| | Number of dwelling units below market rate | | 80 dwelling un | its |
| LUT-8/SDT-1 | Provide pedestrian Network Improvements | Yes | | |
| LUT-9 | Improve Walkability Design | | | |
| | Intersections within one square mile of the Project site | | 113 intersection | s |
| SDT-2 | Provide Traffic Calming Measures | | | |
| | Percent of Streets with sidewalks within one square mile of the Project site | | 100 Percent | |
| | Percent of intersections with crosswalks within one square mile of the Project site | | 25 Percent | |

Adjustments to Energy Factors to account for Title 24 2013 and 2016 requirements. 2016 savings equal 28% for Residential and 5% for Nonresidential for electricity 2013 savings equal 25% for Residential and 30% for Nonresidential

| | | Adjust | ed to Account for 201 | 3 and 2016 Title | 24 Standards | | | | | |
|--------------------|--------|---------|-----------------------|------------------|--------------|--------|---------|---------|----------|---------|
| EnergyUseLand T24E | NT | 24E | LightingElect | T24NG | NT24NG | | | | | |
| Apartments Hig | 185.97 | 2553.86 | 741.44 | 5157.8 | 1662 | 87.41 | 2553.86 | 741.44 | 3868.35 | 1662.00 |
| Condo/Townho | 230.21 | 3125.85 | 1001.1 | 14173.61 | 3046.55 | 108.20 | 3125.85 | 1001.10 | 10630.21 | 3046.55 |
| Enclosed Parkin | 3.92 | 0.19 | 2.63 | 0 | 0 | 0.42 | 0.19 | 2.33 | 0 | 0 |
| General Office I | 5.62 | 4.62 | 4.29 | 10.54 | 0.39 | 3.65 | 4.62 | 4.29 | 7.38 | 0.39 |
| High Turnover (| 9.91 | 28.16 | 8.84 | 45.23 | 187.78 | 6.44 | 28.16 | 8.84 | 31.66 | 187.78 |
| Hotel | 3.12 | 2.89 | 2.49 | 20.96 | 4.06 | 2.03 | 2.89 | 2.49 | 14.67 | 4.06 |
| Quality Restaur | 9.91 | 28.16 | 8.84 | 45.23 | 187.78 | 6.44 | 28.16 | 8.84 | 31.66 | 187.78 |
| Strip Mall | 4.9 | 3.23 | 7.04 | 1.21 | 0.49 | 3.19 | 3.23 | 7.04 | 0.85 | 0.49 |
| Supermarket | 5.4 | 25.88 | 7.89 | 10.35 | 12.24 | 3.51 | 25.88 | 7.89 | 7.25 | 12.24 |

Consistent with Section 120.6(c), Mandatory Requirements for Enclosed Parking Garages, the ventilation rate shall be at least 0.15 cfm/sq f when the garage is scheduled to be occupied.

| Parking Garage Ventilation | |
|---------------------------------------|---|
| Square Footage = | 1038400 ft2 |
| Minimum Ventilation = | 0.15 cfm/ft2 |
| Flowrate = | 155760 cfm |
| Number of Fans (20,000 cfm) | 7.788 fans |
| Number of Fans | 8 fans |
| Horsepower per Fan | 15 hp |
| Horsepower to kW Conv. | 0.746 kW per hp |
| Total kW = | 89.52 |
| Annual kW = | 392,098 conservatively assumes operational 50 percent of the time even though it would only be operational when CO sensors read CO concentrations in excess of 25 ppm (2013 Building Energy Efficiency Stanards |
| Usage Rate: | 0.38 kWh/sq ft annual |
| Adjustment: | 0.42 (CalEEMod applies mititgation to all land uses. So, this adjustement accounts for the 10% reduction in Title 24 standards associated with LEED Silver) |
| Parking Garage Lighting | |
| Square Footage = | 1038400 ft2 |
| Allowed Lighting Power = | 0.2 watts per ft2 (Table 140.6 (Complete Building Method Lighting Power Density Value) of the 2013 Building Energy Efficiency Standards) |
| Annual kW = | 1,814,729 conservatively assumes maximum lighting power 24 hours per day) |
| Annual kW/sq ft = | 1.75 kWh/sq ft annual |
| Adjustment: | 2.33 (CalEEMod applies mititgation to all land uses. So, this adjustement accounts for the 25% reduction in lighting associated with LEED Silver] |
| Elevator (no change CalEEMod Default) | 0.19 kWh/sq ft annual |

Summary of GHG Emissions

| | Baseline | Project | Project Post 2030 |
|--------|----------|----------|-------------------|
| Area | 28.27 | 62.31 | 62.31 |
| Energy | 1,159.70 | 5,750.60 | 4,414.76 |
| Mobile | 2,295.57 | | |
| Waste | 33.20 | 345.16 | 345.16 |
| Water | 240.52 | 449.02 | 330.28 |
| Total | 3,757.25 | 6,607.10 | 5,152.52 |

Summary of Yearly Projections

| Year | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 20 | 30-2051 | |
|-----------|------------|------------|---------------|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------------|
| Baseline | | | | | 3757 | 3757 | 3757 | 3757 | 3757 | 3757 | 3757 | 3757 | 3757 | |
| Project | 4,302.28 | 1,556.29 | 1,532.36 | 1,227.32 | 17,896.43 | 17,642.42 | 17,444.86 | 17,190.85 | 17,190.85 | 17,190.85 | 17,190.85 | 17,190.85 | 15,736.26 | |
| Shortfall | (4,302.28) | (1,556.29) | (1,532.36) | (1,227.32) | (14,139) | (13,885) | (13,688) | (13,434) | (13,434) | (13,434) | (13,434) | (13,434) | (11,979) | (261,246.38) |
| | | | | | | | | | | | | | | |
| | | | | Annual VMT | 28223330 | 28223330 | 28223330 | 28223330 | 28223330 | 28223330 | 28223330 | 28223330 | 28223330 | |
| | | | CAF | tB EF (g/mile) | 400 | 391 | 384 | 375 | 375 | 375 | 375 | 375 | 375 | |
| | | Ann | ual VMT Emiss | ions MTCO2e | 11289 | 11035 | 10838 | 10584 | 10584 | 10584 | 10584 | 10584 | 10584 | |

Crossroads Hollywood Application for CEQA Streamlining

• CalEEMod Output (Project Construction)

Crossroads Project Construction

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-------------------------------------|----------|---------------|-------------|--------------------|------------|
| General Office Building | 95.00 | 1000sqft | 2.18 | 95,000.00 | 0 |
| Enclosed Parking with Elevator | 2,646.00 | Space | 23.81 | 1,058,400.00 | 0 |
| High Turnover (Sit Down Restaurant) | 41.60 | 1000sqft | 0.96 | 41,600.00 | 0 |
| Hotel | 308.00 | Room | 10.27 | 447,216.00 | 0 |
| Apartments High Rise | 760.00 | Dwelling Unit | 12.26 | 760,000.00 | 2174 |
| Condo/Townhouse High Rise | 190.00 | Dwelling Unit | 2.97 | 190,000.00 | 543 |
| Strip Mall | 61.80 | 1000sqft | 1.42 | 61,800.00 | 0 |
| Supermarket | 40.00 | 1000sqft | 0.92 | 40,000.00 | 0 |
| Quality Restaurant | 41.60 | 1000sqft | 0.96 | 41,600.00 | 0 |

1.2 Other Project Characteristics

| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 33 | | |
|----------------------------|---|----------------------------|-------|----------------------------|-------|--|--|
| Climate Zone | 11 | | | Operational Year | 2022 | | |
| Utility Company | Los Angeles Department of Water & Power | | | | | | |
| CO2 Intensity (Ib/MWhr) | 1227.89 | CH4 Intensity (Ib/MWhr) | 0.029 | N2O Intensity (Ib/MWhr) | 0.006 | | |

1.3 User Entered Comments & Non-Default Data

Project Characteristics -Land Use - Site Specific Construction Phase - Site Specific Off-road Equipment - Site Specific Trips and VMT - site specific Demolition -Grading -Vehicle Trips - Project Specific Traffic Study Vechicle Emission Factors -Vechicle Emission Factors -Vechicle Emission Factors -Woodstoves -Energy Use -Construction Off-road Equipment Mitigation -Mobile Land Use Mitigation -Area Mitigation -Energy Mitigation -

Water Mitigation -

Waste Mitigation -

| Table Name | Column Name | Default Value | New Value |
|----------------------|--|---------------|---------------------------|
| tblConstructionPhase | NumDays | 75.00 | 356.00 |
| tblConstructionPhase | NumDays | 1,110.00 | 718.00 |
| tblConstructionPhase | NumDays | 70.00 | 23.00 |
| tblConstructionPhase | NumDays | 110.00 | 107.00 |
| tblConstructionPhase | NumDays | 75.00 | 66.00 |
| tblConstructionPhase | NumDays | 40.00 | 131.00 |
| tblConstructionPhase | PhaseEndDate | 2/10/2023 | 9/30/2021 |
| tblConstructionPhase | PhaseEndDate | 6/29/2018 | 6/30/2018 |
| tblConstructionPhase | PhaseStartDate | 10/1/2021 | 5/21/2020 |
| tblGrading | MaterialExported | 0.00 | 707,500.00 |
| tblOffRoadEquipment | LoadFactor | 0.29 | 0.29 |
| tblOffRoadEquipment | LoadFactor | 0.36 | 0.36 |
| tblOffRoadEquipment | LoadFactor | 0.50 | 0.50 |
| tblOffRoadEquipment | LoadFactor | 0.29 | 0.29 |
| tblOffRoadEquipment | LoadFactor | 0.29 | 0.29 |
| tblOffRoadEquipment | LoadFactor | 0.31 | 0.31 |
| tblOffRoadEquipment | LoadFactor | 0.37 | 0.37 |
| tblOffRoadEquipment | LoadFactor | 0.37 | 0.37 |
| tblOffRoadEquipment | OffRoadEquipmentType | 0.01 | Air Compressors |
| tblOffRoadEquipment | OffRoadEquipmentType | | Cranes |
| tblOffRoadEquipment | OffRoadEquipmentType | | Rubber Tired Loaders |
| tblOffRoadEquipment | OffRoadEquipmentType | | Welders |
| tblOffRoadEquipment | OffRoadEquipmentType | | Bore/Drill Rigs |
| tblOffRoadEquipment | OffRoadEquipmentType | | - |
| | | | Cranes |
| tblOffRoadEquipment | OffRoadEquipmentType OffRoadEquipmentType | | Pumps |
| tblOffRoadEquipment | OffRoadEquipmentType | | Cement and Mortar Mixers |
| tblOffRoadEquipment | OffRoadEquipmentType | | Concrete/Industrial Saws |
| tblOffRoadEquipment | | | Cranes |
| tblOffRoadEquipment | OffRoadEquipmentType | | Plate Compactors |
| tblOffRoadEquipment | OffRoadEquipmentType | | Pumps |
| tblOffRoadEquipment | OffRoadEquipmentType | | Welders |
| tblOffRoadEquipment | OffRoadEquipmentType | | Aerial Lifts |
| tblOffRoadEquipment | OffRoadEquipmentType | | Air Compressors |
| tblOffRoadEquipment | OffRoadEquipmentType | | Cement and Mortar Mixers |
| tblOffRoadEquipment | OffRoadEquipmentType | | Concrete/Industrial Saws |
| tblOffRoadEquipment | OffRoadEquipmentType | | Plate Compactors |
| tblOffRoadEquipment | OffRoadEquipmentType | | Pumps |
| tblOffRoadEquipment | OffRoadEquipmentType | | Cement and Mortar Mixers |
| tblOffRoadEquipment | OffRoadEquipmentType | | Pumps |
| tblOffRoadEquipment | OffRoadEquipmentType | | Skid Steer Loaders |
| tblOffRoadEquipment | OffRoadEquipmentType | | Tractors/Loaders/Backhoes |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 3.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 3.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 4.00 |

| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 4.00 |
|---------------------------|----------------------------|-----------|-----------|
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 4.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 3.00 |
| tblOffRoadEquipment | UsageHours | 7.00 | 8.00 |
| tblProjectCharacteristics | OperationalYear | 2014 | 2022 |
| tblTripsAndVMT | HaulingTripLength | 20.00 | 40.00 |
| tblTripsAndVMT | HaulingTripLength | 20.00 | 40.00 |
| tblTripsAndVMT | HaulingTripNumber | 637.00 | 660.00 |
| tblTripsAndVMT | HaulingTripNumber | 88,438.00 | 52,000.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 20.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 50.00 |
| tblTripsAndVMT | VendorTripNumber | 394.00 | 75.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 20.00 |
| tblTripsAndVMT | WorkerTripNumber | 30.00 | 76.00 |
| tblTripsAndVMT | WorkerTripNumber | 30.00 | 76.00 |
| tblTripsAndVMT | WorkerTripNumber | 30.00 | 88.00 |
| tblTripsAndVMT | WorkerTripNumber | 1,414.00 | 360.00 |
| tblTripsAndVMT | WorkerTripNumber | 283.00 | 0.00 |
| tblTripsAndVMT | WorkerTripNumber | 23.00 | 30.00 |

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

| | ROG | NOx | со | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------|-----|-----|----|-----|------------------|-----------------|---------------|-------------------|------------------|----------------|----------|--------------|-----------|-----|-----|----------------|
| Year | | | | | ton | s/yr | | | | | | | MT | /yr | | , . |
| 2018 | | | | | | | | | | | | | | | | 4,302.284 7 |
| 2019 | | | | | | | | | | | | | | | | 1,556.285 8 |
| 2020 | | | | | | | | | | | | | | | | 1,532.358 6 |
| 2021 | | | | | | | | | | | | | | | | 1,227.321 7 |
| Total | | | | | | | | | | | | | | | | 8,618.250 8 |

| Total CO2 CH4 | N20 CO2e |
|---------------|----------|
| | |
| | |
| | |
| | |

| I | Percent | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|---|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | Reduction | | | | | | | | | | | | | | | | |

3.0 Construction Detail

Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|-----------------|-----------------------|-----------------------|------------|------------|------------------|----------|-------------------|
| 1 | Demolition | Demolition | 1/1/2018 | 1/31/2018 | 5 | 23 | |
| 2 | Grading | Grading | 2/1/2018 | 6/30/2018 | 5 | 107 | |
| 3 | Foundation | Site Preparation | 7/1/2018 | 12/31/2018 | 5 | 131 | |
| 4 | Building Construction | Building Construction | 1/1/2019 | 9/30/2021 | 5 | 718 | |
| 5 | Architectural Coating | Architectural Coating | 5/21/2020 | 9/30/2021 | 5 | 356 | |
| 6 | Paving | Paving | 10/1/2021 | 12/31/2021 | 5 | 66 | |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 1,923,750; Residential Outdoor: 641,250; Non-Residential Indoor: 2,678,424; Non-Residential Outdoor: 892,808

OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition | Air Compressors | 3 | 8.00 | 78 | 0.48 |
| Demolition | Concrete/Industrial Saws | 3 | 8.00 | 81 | 0.73 |
| Demolition | Cranes | 1 | 8.00 | 226 | 0.29 |
| Demolition | Excavators | 2 | 8.00 | 162 | 0.38 |
| Demolition | Rubber Tired Dozers | 0 | 8.00 | 255 | 0.40 |
| Demolition | Rubber Tired Loaders | 2 | 8.00 | 199 | 0.36 |
| Demolition | Welders | 1 | 8.00 | 46 | 0.45 |
| Grading | Bore/Drill Rigs | 2 | 8.00 | 205 | 0.50 |
| Grading | Cranes | 2 | 8.00 | 226 | 0.29 |
| Grading | Excavators | 4 | 8.00 | 162 | 0.38 |
| Grading | Graders | 0 | 8.00 | 174 | 0.41 |
| Grading | Pumps | 4 | 8.00 | 84 | 0.74 |
| Grading | Rubber Tired Dozers | 0 | 8.00 | 255 | 0.40 |
| Grading | Scrapers | 0 | 8.00 | 361 | 0.48 |
| Grading | Tractors/Loaders/Backhoes | 0 | 8.00 | 97 | 0.37 |
| Foundation | Cement and Mortar Mixers | 2 | 8.00 | 9 | 0.56 |
| Foundation | Concrete/Industrial Saws | 2 | | 81 | 0.73 |
| Foundation | Cranes | 2 | 8.00 | 226 | 0.29 |
| Foundation | Plate Compactors | 2 | 8.00 | 8 | 0.43 |
| Foundation | Pumps | 2 | 8.00 | 84 | 0.74 |
| Foundation | Rubber Tired Dozers | 0 | 8.00 | 255 | 0.40 |
| Foundation | Tractors/Loaders/Backhoes | 0 | 8.00 | 97 | 0.37 |
| Foundation | Welders | 2 | 8.00 | 46 | 0.45 |
| Building Construction | Aerial Lifts | 4 | 8.00 | 62 | 0.31 |
| Building Construction | Air Compressors | 4 | 8.00 | 78 | 0.48 |
| Building Construction | Cement and Mortar Mixers | 3 | 8.00 | 9 | 0.56 |
| Building Construction | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Building Construction | Cranes | 3 | 8.00 | 226 | 0.29 |
| Building Construction | Forklifts | 4 | 8.00 | 89 | 0.20 |

| Building Construction | Generator Sets | 0 | 8.00 | 84 | 0.74 |
|-----------------------|---------------------------|---|------|-----|------|
| Building Construction | Plate Compactors | 3 | 8.00 | 8 | 0.43 |
| Building Construction | Pumps | 3 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 0 | 7.00 | 97 | 0.37 |
| Building Construction | Welders | 3 | 8.00 | 46 | 0.45 |
| Architectural Coating | Air Compressors | 0 | 6.00 | 78 | 0.48 |
| Paving | Cement and Mortar Mixers | 2 | 8.00 | 9 | 0.56 |
| Paving | Pavers | 0 | 8.00 | 125 | 0.42 |
| Paving | Paving Equipment | 1 | 8.00 | 130 | 0.36 |
| Paving | Pumps | 1 | 8.00 | 84 | 0.74 |
| Paving | Rollers | 1 | 8.00 | 80 | 0.38 |
| Paving | Skid Steer Loaders | 2 | 8.00 | 64 | 0.37 |
| Paving | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |

Trips and VMT

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|----------------------------|-----------------------|-----------------------|------------------------|-----------------------|-----------------------|------------------------|-------------------------|-------------------------|--------------------------|
| Demolition | 12 | 76.00 | 0.00 | 660.00 | 14.70 | 6.90 | 40.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 12 | 76.00 | 20.00 | 52,000.00 | 14.70 | 6.90 | 40.00 | LD_Mix | HDT_Mix | HHDT |
| Foundation | 12 | 88.00 | 50.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 28 | 360.00 | 75.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 0 | 0.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 9 | 30.00 | 20.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2018

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|-----|-----|----|-----|------------------|-----------------|---------------|-------------------|------------------|----------------|----------|--------------|-----------|------|-----|---------|
| Category | | | | | ton | s/yr | | | | | | | MT | ſ/yr | | |
| Fugitive Dust | | | | | | | | | | | | | | | | 0.0000 |
| Off-Road | | | | | | | | | | | | | | | | 62.6468 |
| Total | | | | | | | | | | | | | | | | 62.6468 |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------|-----|-----|----|-----|------------------|-----------------|---------------|-------------------|------------------|----------------|----------|--------------|-----------|-----|-----|---------|
| Category | | | | | ton | s/yr | | | | | | | MT | /yr | | |
| Hauling | | | | | | | | | | | | | | | | 43.0664 |
| Vendor | | | | | | | | | | | | | | | | 0.0000 |
| Worker | | | | | | | | | | | | | | | | 8.6752 |

| Total | | | | | | | | 51.7416 |
|-------|--|--|--|--|--|--|--|---------|
| | | | | | | | | • |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

3.3 Grading - 2018

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|-----|-----|----|-----|------------------|-----------------|---------------|-------------------|------------------|----------------|----------|--------------|-----------|-----|-----|----------|
| Category | | | | | ton | s/yr | | | | | | | МТ | /yr | | |
| Fugitive Dust | | | | | | | | | | | | | | | | 0.0000 |
| Oli-Roau | | | | | | | | | | | | | | | | 366.3968 |
| Total | | | | | | | | | | | | | | | | 366.3968 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------|-----|-----|----|-----|------------------|-----------------|---------------|-------------------|------------------|----------------|----------|--------------|-----------|-----|-----|----------------|
| Category | | | | | ton | s/yr | | | | | | | МТ | /yr | | |
| Hauling | | | | | | | | | | | | | | | | 3,393.113 8 |
| Vendor | | | | | | | | | | | | | | | | 20.6185 |
| Worker | | | | | | | | | | | | | | | | 40.3584 |
| Total | | | | | | | | | | | | | | | | 3,454.090 8 |

3.4 Foundation - 2018 Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|-----|-----|----|-----|------------------|-----------------|---------------|-------------------|------------------|----------------|----------|--------------|-----------|-----|-----|----------|
| Category | | | | | ton | s/yr | | | | | | | МТ | /yr | | |
| Fugitive Dust | | | | | | | | | | | | | | | | 0.0000 |
| Off-Road | | | | | | | | | | | | | | | | 247.0882 |
| Total | | | | | | | | | | | | | | | | 247.0882 |

| | ROG | NOx | со | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------|-----|-----|----|-----|------------------|-----------------|---------------|-------------------|------------------|----------------|----------|--------------|-----------|-----|-----|---------|
| Category | | | | | ton | s/yr | | | | | | | МТ | /yr | | |
| Ű | | | | | | | | | | | | | | | | 0.0000 |
| Vendor | | | | | | | | | | | | | | | | 63.1081 |

| Worker | | | | | | | , | | 57.2125 |
|--------|--|--|--|--|--|--|---|--|----------|
| Total | | | | | | | | | 120.3206 |

3.5 Building Construction - 2019

Unmitigated Construction On-Site

| | ROG | NOx | СО | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------|-----|-----|----|-----|------------------|-----------------|---------------|-------------------|------------------|----------------|----------|--------------|-----------|-----|-----|----------|
| Category | | | | | ton | s/yr | | | | | | | MT | /yr | | |
| Off-Road | | | | | | | | | | | | | | | | 923.5459 |
| Total | | | | | | | | | | | | | | | | 923.5459 |

Unmitigated Construction Off-Site

| | ROG | NŌx | СО | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------|-----|-----|----|-----|------------------|-----------------|---------------|-------------------|------------------|----------------|----------|--------------|-----------|-----|-----|----------|
| Category | | | | | ton | s/yr | | | | | | | MT | /yr | | |
| Hauling | | | | | | | | | | | | | | | | 0.0000 |
| Vendor | | | | | | | | | | | | | | | | 184.7301 |
| Worker | | | | | | | | | | | | | | | | 448.0098 |
| Total | | | | | | | | | | | | | | | | 632.7399 |

3.5 Building Construction - 2020 Unmitigated Construction On-Site

| | ROG | NOx | со | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------|-----|-----|----|-----|------------------|-----------------|---------------|-------------------|------------------|----------------|----------|--------------|-----------|-----|-----|----------|
| Category | | | | | ton | s/yr | | | | | | | МТ | /yr | | |
| Off-Road | | | | | | | | | | | | | | | | 919.4076 |
| Total | | | | | | | | | | | | | | | | 919.4076 |

| ROG | NOx CO | SO2 Fugitive PM10 | Exhaust PM10 PM10 Total | Fugitive Exhaust PM2.5 PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----|--------|----------------------|----------------------------|---------------------------------|----------------|----------|--------------|-----------|-----|-----|------|
|-----|--------|----------------------|----------------------------|---------------------------------|----------------|----------|--------------|-----------|-----|-----|------|

| Category | | | ton | s/yr | | | | M | T/yr | |
|----------|--|--|-----|------|--|--|--|---|------|----------|
| Hauling | | | | | | | | | | 0.0000 |
| vendor | | | | | | | | | | 181.3065 |
| Worker | | | | | | | | | | 431.6444 |
| Total | | | | | | | | | | 612.9510 |

3.5 Building Construction - 2021

Unmitigated Construction On-Site

| | ROG | NOx | со | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------|-----|-----|----|-----|------------------|-----------------|---------------|-------------------|------------------|----------------|----------|--------------|-----------|-----|-----|----------|
| Category | | | | | ton | s/yr | | | | | | | МТ | /yr | | |
| Off-Road | | | | | | | | | | | | | | | | 684.2099 |
| Total | | | | | | | | | | | | | | | | 684.2099 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------|-----|-----|----|-----|------------------|-----------------|---------------|-------------------|------------------|----------------|----------|--------------|-----------|-----|-----|----------|
| Category | | | | | ton | s/yr | | | | | | | МТ | /yr | | |
| Hauling | | | | | | | | | | | | | | | | 0.0000 |
| Vendor | | | | | | | | | | | | | | | | 134.8384 |
| Worker | | | | | | | | | | | | | | | | 316.2135 |
| Total | | | | | | | | | | | | | | | | 451.0519 |

3.7 Paving - 2021 Unmitigated Construction On-Site

| | ROG | NOx | со | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------|-----|-----|----|-----|------------------|-----------------|---------------|-------------------|------------------|----------------|----------|--------------|-----------|------|-----|---------|
| Category | | | | | ton | s/yr | | | | | | | MT | ſ/yr | | |
| Off-Road | | | | | | | | | | | | | | | | 70.9710 |
| Paving | | | | | | | | | | | | | | | | 0.0000 |
| Total | | | | | | | | | | | | | | | | 70.9710 |

| | ROG | NOx | со | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------|-----|-----|----|-----|------------------|-----------------|---------------|-------------------|------------------|----------------|----------|--------------|-----------|-----|-----|---------|
| Category | | | | | ton | s/yr | | | | | | | МТ | /yr | | |
| Hauling | | | | | | | | | | | | | | | | 0.0000 |
| Vendor | | | | | | | | | | | | | | | | 12.1700 |
| Worker | | | | | | | | | | | | | | | | 8.9188 |
| Total | | | | | | | | | | | | | | | | 21.0889 |

Crossroads Hollywood Application for CEQA Streamlining

• CalEEMod Output (Existing Conditions)

Crossroads Existing Conditions

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-------------------------------------|--------|---------------|-------------|--------------------|------------|
| General Office Building | 79.11 | 1000sqft | 1.00 | 79,107.00 | 0 |
| Parking Lot | 344.00 | Space | 2.00 | 137,600.00 | 0 |
| High Turnover (Sit Down Restaurant) | 0.48 | 1000sqft | 0.01 | 475.00 | 0 |
| Hotel | 0.00 | Room | 0.00 | 0.00 | 0 |
| Apartments Low Rise | 84.00 | Dwelling Unit | 4.00 | 84,000.00 | 240 |
| Condo/Townhouse High Rise | 0.00 | Dwelling Unit | 0.00 | 0.00 | 0 |
| Strip Mall | 26.69 | 1000sqft | 1.00 | 26,690.00 | 0 |
| Supermarket | 0.00 | 1000sqft | 0.00 | 0.00 | 0 |

1.2 Other Project Characteristics

| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 33 |
|----------------------------|------------------------|----------------------------|-------|----------------------------|-------|
| Climate Zone | 11 | | | Operational Year | 2015 |
| Utility Company | Los Angeles Department | t of Water & Power | | | |
| CO2 Intensity (Ib/MWhr) | 1094 | CH4 Intensity (Ib/MWhr) | 0.029 | N2O Intensity (Ib/MWhr) | 0.006 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2013

Land Use - Site Specific

Vehicle Trips - Project Specific Traffic Study

Vechicle Emission Factors -

Vechicle Emission Factors -

Vechicle Emission Factors -

Woodstoves - Site Specific

Energy Use - Existing Uses

Water And Wastewater -

Mobile Land Use Mitigation -

Waste Mitigation -

Solid Waste -

| Table Name | Column Name | Default Value | New Value |
|---------------------------|--------------------|---------------|-----------|
| tblLandUse | LandUseSquareFeet | 79,110.00 | 79,107.00 |
| tblLandUse | LandUseSquareFeet | 480.00 | 475.00 |
| tblLandUse | LotAcreage | 1.82 | 1.00 |
| tblLandUse | LotAcreage | 3.10 | 2.00 |
| tblLandUse | LotAcreage | 5.25 | 4.00 |
| tblLandUse | LotAcreage | 0.61 | 1.00 |
| tblProjectCharacteristics | CO2IntensityFactor | 1227.89 | 1094 |
| tblProjectCharacteristics | OperationalYear | 2014 | 2015 |
| tblVehicleTrips | ST_TR | 7.16 | 7.23 |
| tblVehicleTrips | ST_TR | 42.04 | 40.51 |

| tblVehicleTrips | SU_TR | 6.07 | 6.13 |
|-----------------|-------|-------|-------|
| tblVehicleTrips | SU_TR | 20.43 | 19.69 |
| tblVehicleTrips | WD_TR | 6.59 | 6.65 |
| tblVehicleTrips | WD_TR | 11.01 | 11.03 |
| tblVehicleTrips | WD_TR | 44.32 | 42.71 |

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

| | ROG | NOx | со | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------|-----|-----|----|-----|------------------|-----------------|---------------|-------------------|------------------|----------------|----------|--------------|-----------|------|-----|----------------|
| Category | | | | | ton | s/yr | | | | | | | M | ſ/yr | | |
| Area | | | | | | | | | | | | | | | | 28.2725 |
| Energy | | | | | | | | | | | | | | | | 1,159.697 2 |
| Mobile | | | | | | | | | | | | | | | | 2,866.221 1 |
| Waste | | | | | | | | | | | | | | | | 66.3904 |
| Water | | | | | | | | | | | | | | | | 240.5294 |
| Total | | | | | | | | | | | | | | | | 4,361.110 6 |

Mitigated Operational

| | ROG | NOx | СО | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------|-----|-----|----|-----|------------------|-----------------|---------------|-------------------|------------------|----------------|----------|--------------|-----------|------|-----|----------------|
| Category | | | | | ton | s/yr | | | | | | | MT | ī/yr | | |
| Area | | | | | | | | | | | | | | | | 28.2725 |
| Energy | | | | | | | | | | | | | | | | 1,159.697 2 |
| Mobile | | | | | | | | | | | | | | | | 2,295.565 9 |
| Waste | | | | | | | | | | | | | | | | 33.1952 |
| Water | | | | | | | | | | | | | | | | 240.5185 |
| Total | | | | | | | | | | | | | | | | 3,757.249 2 |

| | ROG | NOx | СО | S02 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|----------------------|--------------|-------|-----|-----|------------------|-----------------|---------------|-------------------|------------------|----------------|----------|----------|-----------|-----|-----|-------|
| Percent Reduction | | | | | | | | | | | | | | | | 13.85 |
| 4.0 Operati | ional Detail | - Mob | ile | | | | | | | | | | | | | |

4.1 Mitigation Measures Mobile

Increase Density

Improve Walkability Design

Improve Destination Accessibility

Increase Transit Accessibility

| | ROG | NOx | СО | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----|-----|----|-----|------------------|-----------------|---------------|-------------------|------------------|----------------|----------|--------------|-----------|-----|-----|----------------|
| Category | | | | | ton | s/yr | | | | | | | МТ | /yr | | |
| Unmitigated | | | | | | | | | | | | | | | | 2,866.221 1 |
| Mitigated | | | | | | | | | | | | | | | | 2,295.565 9 |

4.2 Trip Summary Information

| | Aver | age Daily Trip R | ate | Unmitigated | Mitigated |
|-------------------------------------|----------|------------------|----------|-------------|------------|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments Low Rise | 558.60 | 607.32 | 514.92 | 1,911,281 | 1,518,587 |
| Condo/Townhouse High Rise | 0.00 | 0.00 | 0.00 | | |
| General Office Building | 872.58 | 187.49 | 77.53 | 2,129,816 | 1,692,221 |
| High Turnover (Sit Down Restaurant) | 61.03 | 76.02 | 63.28 | 86,532 | 68,753 |
| Hotel | 0.00 | 0.00 | 0.00 | | |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Strip Mall | 1,139.93 | 1,081.21 | 525.53 | 1,985,871 | 1,577,851 |
| Supermarket | 0.00 | 0.00 | 0.00 | | |
| Total | 2,632.15 | 1,952.04 | 1,181.26 | 6,113,501 | 4,857,412 |

4.3 Trip Type Information

| | | Miles | | | Trip % | | | Trip Purpos | se % |
|---------------------------|------------|------------|-------------|-----------|------------|-------------|---------|-------------|---------|
| Land Use | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C- | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Apartments Low Rise | 14.70 | 5.90 | 8.70 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Condo/Townhouse High Rise | 14.70 | 5.90 | 8.70 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| General Office Building | 16.60 | 8.40 | 6.90 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| High Turnover (Sit Down | 16.60 | 8.40 | 6.90 | 8.50 | 72.50 | 19.00 | 37 | 20 | 43 |
| Hotel | 16.60 | 8.40 | 6.90 | 19.40 | 61.60 | 19.00 | 58 | 38 | 4 |
| Parking Lot | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Strip Mall | 16.60 | 8.40 | 6.90 | 16.60 | 64.40 | 19.00 | 45 | 40 | 15 |
| Supermarket | 16.60 | 8.40 | 6.90 | 6.50 | 74.50 | 19.00 | 34 | 30 | 36 |

| LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0.534619 | 0.058604 | 0.178185 | 0.126004 | 0.038986 | 0.006286 | 0.016079 | 0.029769 | 0.002429 | 0.003158 | 0.003693 | 0.000543 | 0.001646 |

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: Y

5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------------------|-----|-----|----|-----|------------------|-----------------|---------------|-------------------|------------------|----------------|----------|--------------|-----------|-----|-----|----------------|
| Category | | | | | ton | s/yr | | | | | | | МТ | /yr | | |
| NaturalGas Mitigated | | | | | | | | | | | | | | | | 125.6914 |
| NaturalGas Unmitigated | | | | | | | | | | | | | | | | 125.6914 |
| Electricity Mitigated | | | | | | | | | | | | | | | | 1,034.005 7 |

| E ¹¹¹¹¹¹¹¹¹¹¹¹¹¹¹¹¹¹¹¹¹¹¹¹¹¹¹¹¹¹¹¹¹¹¹¹ | | | | | | | | | | | | | | |
|--|-------|---|-----|---|---|-------|------|---|------|---|-----|---|---|-----------|
| Electri | icity | | - E | 1 | 1 | | | 1 | | 1 | | 1 | | 1.034.005 |
| 2.000.0 | iony | | 8 | | | | | | | | | | | 1,001.000 |
| Unmitia | hater | | | | | | | | | ÷ | - E | | | 7 |
| Omining | juicu | 8 | 8 | | | = | | | | = | E | | | |
| | | | | | | | | | | | | | - | |

5.2 Energy by Land Use - NaturalGas

<u>Unmitigated</u>

| | NaturalGa s Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--|--------------------|-----|-----|----|-----|------------------|-----------------|---------------|-------------------|------------------|----------------|----------|-----------|-----------|------|-----|----------|
| Land Use | kBTU/yr | | | | | tor | ns/yr | | | | | | | M | ſ/yr | | |
| Apartments Low Rise | 006 | | | | | | | | | | | | | | | | 64.2726 |
| Condo/Townhouse High Rise | 0 | | | | | | | | | | | | | | | | 0.0000 |
| General Office Building | 984091 | | | | | | | | | | | | | | | | 52.8344 |
| High Turnover (Sit Down Restaurant) | | | | | | | | | | | | | | | | | 5.9764 |
| Hotel | 0 | | | | | | | | | | | | | | | | 0.0000 |
| Parking Lot | 0 | | | | | | | | | | | | | | | | 0.0000 |
| Strip Mall | 48575.8 | | | | | | | | | | | | | | | | 2.6080 |
| Supermarket | 0 | | | | | | | | | | | | | | | 0 | 0.0000 |
| Total | | | | | | | | | | | | | | | | | 125.6914 |

Mitigated

| | NaturalGa s Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--|--------------------|-----|-----|----|----------|------------------|-----------------|---------------|-------------------|------------------|----------------|----------|-----------|-----------|-----|-----|----------|
| Land Use | kBTU/yr | | | | | tor | ıs/yr | | | | | | | МТ | /yr | | |
| Condo/Townhouse High Rise | | | | | | | | | | | | | | | | | 0.0000 |
| General Office Building | 984091 | | | | | | | | | | | | | | | | 52.8344 |
| High Turnover (Sit Down Restaurant) | 111316 | ō | ġ | į, | <u>.</u> | Ū | | | <u>.</u> | | į, | | | | 5 | 0 | 5.9764 |
| Hotel | 0 | 0 | d | | | | | | | | | | | | | | 0.0000 |
| Parking Lot | 0 | | | | | | | | | | | | | | | | 0.0000 |
| Strip Mall | 48575.8 | | | | | | | | | | | | | | | | 2.6080 |
| Supermarket | 0 | 0 | | | | | | | | | | | | | | | 0.0000 |
| Apartments Low Rise | 1.19714e+ 006 | 0 | | | | 0 | | | | | | | | | | | 64.2726 |
| Total | | | | | | | | | | | | | | | | | 125.6914 |

5.3 Energy by Land Use - Electricity Unmitigated

ominigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|----------|--------------------|-----------|-----|------|------|
| Land Use | kWh/yr | | M | ī/yr | |

| Apartments Low Rise | 303427 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | 150.9096 |
|--|------------------|---|--|----------------|
| Condo/Townhouse High Rise | 0 | | | 0.0000 |
| General Office Building | 1.20559e+ 006 | | | 599.6005 |
| High Turnover (Sit Down Restaurant) | 22952 | | | 11.4152 |
| Hotel | 0 | | | 0.0000 |
| Parking Lot | 121088 | | | 60.2231 |
| Strip Mall | 425972 | | | 211.8574 |
| Supermarket | 0 | | | 0.0000 |
| Total | | | | 1,034.005 7 |

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|--|--------------------|-----------|-----|------|----------------|
| Land Use | kWh/yr | | M | ſ/yr | |
| Apartments Low Rise | | 0 | | | 150.9096 |
| Condo/Townhouse High Rise | 0 | | | | 0.0000 |
| General Office Building | 1.20559e+ 006 | | | | 599.6005 |
| High Turnover (Sit Down Restaurant) | | | | | 11.4152 |
| Hotel | 0 | | | | 0.0000 |
| Parking Lot | 121088 | | | | 60.2231 |
| Strip Mall | 425972 | | | | 211.8574 |
| Supermarket | 0 | | | | 0.0000 |
| Total | | | | | 1,034.005 7 |

6.0 Area Detail

6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----|-----|----|-----|------------------|-----------------|---------------|-------------------|------------------|----------------|----------|--------------|-----------|-----|-----|---------|
| Category | | | | | ton | s/yr | | | | | | | МТ | /yr | | |
| Unmitigated | | | | | | | | | | | | | | | | 28.2725 |
| Mitigated | | | | | | | | | | | | | | | | 28.2725 |

6.2 Area by SubCategory <u>Unmitigated</u>

| | ROG | NOx | со | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------------------|-----|-----|----|-----|------------------|-----------------|---------------|-------------------|------------------|----------------|----------|--------------|-----------|------|-----|---------|
| SubCategory | | | | | ton | s/yr | | | | | | | MT | Г/yr | | |
| Architectural Coating | | | | | | | | | | | | | | | | 0.0000 |
| Consumer Products | | | | | | | | | | | | | | | | 0.0000 |
| Hearth | | | | | | | | | | | | | | | | 26.8147 |
| Landscaping | | | | | | | | | | | | | | | | 1.4578 |
| Total | | | | | | | | | | | | | | | | 28.2725 |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------------------|--------|-----|----|-----|------------------|-----------------|---------------|-------------------|------------------|----------------|----------|--------------|-----------|------|-----|---------|
| SubCategory | | | | | ton | s/yr | | | | | | | M | ſ/yr | | |
| Architectural Coating | | | | | | | | | | | | | | | | 0.0000 |
| Consumer Products | | | | | | | | | | | | | | | | 0.0000 |
| Hearth | | | | | | | | | | | | | | | | 26.8147 |
| Landscaping | | | | | | | | | | | | | | |) | 1.4578 |
| Total | | | | | | | | | | | | | | | | 28.2725 |
| 7.0 Water D | Detail | | | | | | | | | | | | | | | |

7.1 Mitigation Measures Water

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|-----|-----|----------|
| Category | | MT | /yr | |
| Unmitigated | | | | 240.5294 |
| Mitigated | | | | 240.5185 |

7.2 Water by Land Use <u>Unmitigated</u>

| | Indoor/Out door Use | Total CO2 CH4 | N2O | CO2e |
|--|------------------------|---------------|------|----------|
| Land Use | Mgal | MT | ſ/yr | |
| Apartments Low Rise | 5.47294 / 3.45033 | | | 61.2945 |
| Condo/Townhouse High Rise | 0/0 | | | 0.0000 |
| General Office Building | 14.0605 / 8.61774 | | | 156.1094 |
| High Turnover (Sit Down Restaurant) | | | | 1.1756 |

| Hotel | 0/0 | | 0.0000 |
|-------------|--------------------|--|----------|
| | | | |
| Parking Lot | 0/0 | | 0.0000 |
| Strip Mall | 1.977 / 1.21171 | | 21.9500 |
| Supermarket | 0/0 | | 0.0000 |
| Total | | | 240.5294 |
| | | | |

| | Indoor/Out door Use | Total CO2 CH4 | N2O | CO2e |
|--|------------------------|---------------|-------|----------|
| Land Use | Mgal | | MT/yr | |
| Apartments Low Rise | 3.45033 | | | 61.2917 |
| Condo/Townhouse High Rise | 0/0 | | | 0.0000 |
| Building | 14.0605 / 8.61774 | | | 156.1023 |
| High Turnover (Sit Down Restaurant) | | | | 1.1755 |
| Hotel | 0/0 | | | 0.0000 |
| Parking Lot | 0/0 | | | 0.0000 |
| Strip Mall | 1.977 / 1.21171 | | | 21.9490 |
| Supermarket | 0/0 | | | 0.0000 |
| Total | | | | 240.5185 |

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|-----|-----|---------|
| | | MT | /yr | |
| Mitigated | | | | 33.1952 |
| Unmitigated | | | | 66.3904 |

8.2 Waste by Land Use <u>Unmitigated</u>

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|----------|-------------------|-----------|-----|-----|------|
| Land Use | tons | | МТ | /yr | |

| | | | |
|--|-------|------|---------|
| Apartments Low Rise | 38.64 | | 17.5780 |
| Condo/Townhouse High Rise | 0 | | 0.0000 |
| General Office Building | 73.57 | | 33.4682 |
| High Turnover (Sit Down Restaurant) | 5.71 | | 2.5976 |
| Hotel | 0 | | 0.0000 |
| Parking Lot | 0 | | 0.0000 |
| Strip Mall | 28.02 | | 12.7467 |
| Supermarket | 0 | | 0.0000 |
| Total | | | 66.3904 |
| | | | |

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|--|-------------------|-----------|-----|------|---------|
| Land Use | tons | | ΜT | ſ/yr | |
| Apartments Low Rise | 19.32 | | | | 8.7890 |
| Condo/Townhouse High Rise | | | | | 0.0000 |
| General Office Building | | | | | 16.7341 |
| High Turnover (Sit Down Restaurant) | | | | | 1.2988 |
| Hotel | 0 | | | | 0.0000 |
| Parking Lot | 0 | | | | 0.0000 |
| Strip Mall | 14.01 | | | | 6.3734 |
| Supermarket | 0 | | | | 0.0000 |
| Total | | | | | 33.1952 |

9.0 Operational Offroad

| Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|-----------|-------------|-------------|-----------|

10.0 Vegetation

Crossroads Hollywood Application for CEQA Streamlining

• CalEEMod Output (Project Conditions)

New Value

15.00

30.00

50.00

Crossroads Project Conditions

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-------------------------------------|----------|---------------|-------------|--------------------|------------|
| General Office Building | 95.00 | 1000sqft | 8.00 | 95,000.00 | 0 |
| Enclosed Parking with Elevator | 2,494.00 | Space | 0.00 | 997,600.00 | 0 |
| High Turnover (Sit Down Restaurant) | 41.60 | 1000sqft | 0.00 | 41,600.00 | 0 |
| Hotel | 308.00 | Room | 0.00 | 447,216.00 | 0 |
| Quality Restaurant | 41.60 | 1000sqft | 0.00 | 41,600.00 | 0 |
| Apartments High Rise | 760.00 | Dwelling Unit | 0.00 | 760,000.00 | 2174 |
| Condo/Townhouse High Rise | 190.00 | Dwelling Unit | 0.00 | 190,000.00 | 543 |
| Strip Mall | 61.80 | 1000sqft | 0.00 | 61,800.00 | 0 |
| Supermarket | 40.00 | 1000sqft | 0.00 | 40,000.00 | 0 |

1.2 Other Project Characteristics

tblApplianceMitigation

| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 33 |
|----------------------------|-----------------------|----------------------------|-------|----------------------------|-------|
| Climate Zone | 11 | | | Operational Year | 2022 |
| Utility Company | Los Angeles Departmer | nt of Water & Power | | | |
| CO2 Intensity (Ib/MWhr) | 595 | CH4 Intensity (Ib/MWhr) | 0.029 | N2O Intensity (Ib/MWhr) | 0.006 |

1.3 User Entered Comments & Non-Default Data

| Project Characteristics - RPS 33% |
|--|
| Land Use - Site Specific |
| Trips and VMT - |
| Architectural Coating - |
| Vehicle Trips - Project Specific Traffic Study |
| Vechicle Emission Factors - |
| Vechicle Emission Factors - |
| Vechicle Emission Factors - |
| Woodstoves - No fireplaces within residences |
| Area Coating - |
| Energy Use - Land uses adjusted to account for 2013/2016 Building Energy Efficiency Standards. |
| Water And Wastewater - |
| Solid Waste - |
| |
| Mobile Land Use Mitigation - |
| Mobile Land Use Mitigation - Mobile Commute Mitigation - |
| с. С |
| Mobile Commute Mitigation - |
| Mobile Commute Mitigation - Area Mitigation - |
| Mobile Commute Mitigation - Area Mitigation - Energy Mitigation - Consistency with Title 24. |
| Mobile Commute Mitigation - Area Mitigation - Energy Mitigation - Consistency with Title 24. Water Mitigation - |

 Table Name
 Column Name
 Default Value

 tblApplianceMitigation
 PercentImprovement
 30.00

PercentImprovement

| tblApplianceMitigation | PercentImprovement | 15.00 | 30.00 |
|---------------------------|--------------------|-----------|-----------|
| tblEnergyUse | LightingElect | 2.63 | 2.33 |
| tblEnergyUse | T24E | 185.97 | 87.41 |
| tblEnergyUse | T24E | 230.21 | 108.20 |
| tblEnergyUse | T24E | 3.92 | 0.42 |
| tblEnergyUse | T24E | 5.62 | 3.65 |
| tblEnergyUse | T24E | 9.91 | 6.44 |
| tblEnergyUse | T24E | 3.12 | 2.03 |
| tblEnergyUse | T24E | 9.91 | 6.44 |
| tblEnergyUse | T24E | 4.90 | 3.19 |
| tblEnergyUse | T24E | 5.40 | 3.51 |
| tblEnergyUse | T24NG | 5,157.80 | 3,868.35 |
| tblEnergyUse | T24NG | 14,173.61 | 10,630.21 |
| tblEnergyUse | T24NG | 10.54 | 7.38 |
| tblEnergyUse | T24NG | 45.23 | 31.66 |
| tblEnergyUse | T24NG | 20.96 | 14.67 |
| tblEnergyUse | T24NG | 45.23 | 31.66 |
| tblEnergyUse | T24NG | 1.21 | 0.85 |
| tblEnergyUse | T24NG | 10.35 | 7.25 |
| tblFireplaces | NumberGas | 646.00 | 0.00 |
| tblFireplaces | NumberGas | 161.50 | 190.00 |
| tblFireplaces | NumberNoFireplace | 76.00 | 760.00 |
| tblFireplaces | NumberNoFireplace | 19.00 | 0.00 |
| tblFireplaces | NumberWood | 38.00 | 0.00 |
| tblFireplaces | NumberWood | 9.50 | 0.00 |
| tblLandUse | LotAcreage | 2.18 | 8.00 |
| tblLandUse | LotAcreage | 22.45 | 0.00 |
| tblLandUse | LotAcreage | 0.96 | 0.00 |
| tblLandUse | LotAcreage | 10.27 | 0.00 |
| tblLandUse | LotAcreage | 0.96 | 0.00 |
| tblLandUse | LotAcreage | 12.26 | 0.00 |
| tblLandUse | LotAcreage | 2.97 | 0.00 |
| tblLandUse | LotAcreage | 1.42 | 0.00 |
| tblLandUse | LotAcreage | 0.92 | 0.00 |
| tblProjectCharacteristics | CO2IntensityFactor | 1227.89 | 595 |
| tblProjectCharacteristics | OperationalYear | 2014 | 2022 |
| tblVehicleTrips | ST_TR | 7.16 | 7.23 |
| tblVehicleTrips | ST_TR | 7.16 | 4.54 |
| tblVehicleTrips | ST_TR | 42.04 | 40.50 |
| tblVehicleTrips | SU_TR | 6.07 | 6.13 |
| tblVehicleTrips | SU_TR | 6.07 | 3.85 |
| tblVehicleTrips | SU_TR | 20.43 | 19.68 |
| tblVehicleTrips | WD_TR | 6.59 | 6.65 |
| tblVehicleTrips | WD_TR | 6.59 | 4.18 |
| tblVehicleTrips | WD_TR | 11.01 | 11.03 |
| tblVehicleTrips | WD_TR | 44.32 | 42.70 |
| tblWoodstoves | NumberCatalytic | 38.00 | 0.00 |
| tblWoodstoves | NumberCatalytic | 9.50 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 38.00 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 9.50 | 0.00 |

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | | |
|----------|-----|---------|----|-----|------------------|-----------------|---------------|-------------------|------------------|----------------|----------|--------------|-----------|-----|-----|-----------------|--|--|
| Category | | tons/yr | | | | | | | | | MT/yr | | | | | | | |
| Area | | | | | | | | | | | | | | | | 62.3120 | | |
| Energy | | | | | | | | | | | | | | | | 6,421.160 9 | | |
| Mobile | | | | | | | | | | | | | | | | 20,969.96 80 | | |
| | | | | | | | | | | | | | | | | | | |
| Water | | | | | | | | | | | | | | | | 743.7520 | | |
| Total | | | | | | | | | | | | | | | | 28,887.51 40 | | |

Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------|---------------|-----|----|-----|------------------|-----------------|---------------|-------------------|------------------|----------------|----------|--------------|-----------|-----|-----|-----------------|
| Category | tons/yr MT/yr | | | | | | | | | | | | | | | |
| Area | | | | | | | | | | | | | | | | 62.3120 |
| Energy | | | | | | | | | | | | | | | | 5,750.625 5 |
| Mobile | | | | | | | | | | | | | | | | 11,754.23 85 |
| Waste | | | | | | | | | | | | | | | | 345.1606 |
| Water | | | | | | | | | | | | | | | | 449.0241 |
| Total | | | | | | | | | | | | | | | | 18,361.36 06 |

| | | | PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | | Total CO2 | CH4 | N20 | CO2e |
|-----------|--|--|------|-----------------|---------------|-------------------|------------------|----------------|------|-----------|-----|-----|-------|
| Percent | | | | | | | | | | | | | 36.44 |
| Reduction | | | 1 | | | | | | | | | | 1 |

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Improve Walkability Design

Improve Destination Accessibility

Increase Transit Accessibility

Integrate Below Market Rate Housing

Improve Pedestrian Network

Provide Traffic Calming Measures

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----|-----|----|-----|------------------|-----------------|---------------|-------------------|------------------|----------------|----------|--------------|-----------|-----|-----|-----------------|
| Category | | | | | ton | s/yr | | | | | | | MT | /yr | | |
| Unmitigated | | | | | | | | | | | | | | | | 20,969.96 80 |
| Mitigated | | | | | | | | | | | | | | | | 11,754.23 85 |

4.2 Trip Summary Information

| | Ave | rage Daily Trip Ra | ate | Unmitigated | Mitigated |
|-------------------------------------|-----------|--------------------|-----------|-------------|------------|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments High Rise | 5,054.00 | 5,494.80 | 4658.80 | 17,292,546 | 9,367,798 |
| Condo/Townhouse High Rise | 794.20 | 862.60 | 731.50 | 2,716,685 | 1,471,695 |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | | |
| General Office Building | 1,047.85 | 225.15 | 93.10 | 2,557,610 | 1,385,520 |
| High Turnover (Sit Down Restaurant) | 5,289.44 | 6,588.19 | 5484.54 | 7,499,449 | 4,062,636 |
| Hotel | 2,516.36 | 2,522.52 | 1832.60 | 5,773,484 | 3,127,638 |
| Quality Restaurant | 3,741.92 | 3,925.38 | 3001.86 | 5,213,914 | 2,824,505 |
| Strip Mall | 2,638.86 | 2,502.90 | 1216.22 | 4,597,057 | 2,490,339 |
| Supermarket | 4,089.60 | 7,103.60 | 6657.60 | 6,448,292 | 3,493,198 |
| Total | 25,172.23 | 29,225.14 | 23,676.22 | 52,099,037 | 28,223,330 |

4.3 Trip Type Information

| | | Miles | | | Trip % | | Trip Purpose % | | | |
|--------------------------------|------------|------------|-------------|-----------|------------|-------------|----------------|----------|---------|--|
| Land Use | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C- | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by | |
| Apartments High Rise | 14.70 | 5.90 | 8.70 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 | |
| Condo/Townhouse High Rise | 14.70 | 5.90 | 8.70 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 | |
| Enclosed Parking with Elevator | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 | |
| General Office Building | 16.60 | 8.40 | 6.90 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 | |
| High Turnover (Sit Down | 16.60 | 8.40 | 6.90 | 8.50 | 72.50 | 19.00 | 37 | 20 | 43 | |
| Hotel | 16.60 | 8.40 | 6.90 | 19.40 | 61.60 | 19.00 | 58 | 38 | 4 | |
| Quality Restaurant | 16.60 | 8.40 | 6.90 | 12.00 | 69.00 | 19.00 | 38 | 18 | 44 | |
| Strip Mall | 16.60 | 8.40 | 6.90 | 16.60 | 64.40 | 19.00 | 45 | 40 | 15 | |
| Supermarket | 16.60 | 8.40 | 6.90 | 6.50 | 74.50 | 19.00 | 34 | 30 | 36 | |

| LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0.524776 | 0.057859 | 0.179826 | 0.126122 | 0.039940 | 0.006459 | 0.017277 | 0.035948 | 0.002564 | 0.003184 | 0.003733 | 0.000527 | 0.001784 |

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Install Energy Efficient Appliances

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------------------|-----|-----|----|-----|------------------|-----------------|---------------|-------------------|------------------|----------------|----------|--------------|-----------|-----|-----|----------------|
| Category | | | | | ton | s/yr | | | | | | | ΜT | /yr | | |
| NaturalGas Mitigated | | | | | | | | | | | | | | | | 1,799.435 2 |
| NaturalGas Unmitigated | | | | | | | | | | | | | | | | 1,881.031 5 |

| Electricity Mitigated | | | | | | | | 3,951.190 3 |
|--------------------------|--|--|--|--|--|--|--|----------------|
| Electricity | | | | | | | | 4,540.129 |
| Unmitigated | | | | | | | | 4 |

5.2 Energy by Land Use - NaturalGas <u>Unmitigated</u>

| | NaturalGa s Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--|--------------------|-----|-----|----|-----|------------------|-----------------|---------------|-------------------|------------------|----------------|----------|-----------|-----------|------|-----|----------------|
| Land Use | kBTU/yr | | | | | tor | ns/yr | | | | | | | MI | ſ/yr | | |
| Apartments High Rise | 006 | | | | | | | | | | | | | | | | 225.6566 |
| Condo/Townhouse High Rise | 2.59858e+ 006 | | | | | | | | | | | | | | | | 139.5143 |
| Enclosed Parking with Elevator | 0 | | | | | | | | | | | | | | | | 0.0000 |
| General Office Building | 738150 | | | | | | | | | | | | | | | | 39.6302 |
| High Turnover (Sit Down Restaurant) | 06 | | | | | | | | | | | 0 | | | | | 490.1071 |
| Hotel | 006 | | | | | | | | | | | | | | | | 449.7146 |
| Quality Restaurant | 06 | | | | | | | | | | | | | | | | 490.1071 |
| Strip Mall | 82812 | | | | | | | | | | | 0 | | | | | 4.4461 |
| Supermarket | 779600 | | | | | | | | | | | 0 | | | | | 41.8556 |
| Total | | | | | | | | | | | | | | | | | 1,881.031 5 |

Mitigated

| | NaturalGa s Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--|--------------------|-----|-----|----|-----|------------------|-----------------|---------------|-------------------|------------------|----------------|----------|-----------|-----------|-----|-----|----------------|
| Land Use | kBTU/yr | | | | | tor | ns/yr | | | | | | | M | /yr | | |
| Condo/Townhouse High Rise | 006 | | | | | | | | | | | | | | | | 128.6706 |
| Enclosed Parking with Elevator | 0 | | | | | | | | | | | | | | | | 0.0000 |
| General Office Building | | | | | | | | | | | | | | | | | 35.8661 |
| High Turnover (Sit Down Restaurant) | | | | | | | | | | | | | | | | | 483.0360 |
| Hotel | 7.72029e+ 006 | | | | | | | | | | | | | | | | 414.4913 |
| Quality Restaurant | 8.997e+00 6 | | | | | | | | | | | | | | | | 483.0360 |
| Strip Mall | 77559 | | | | | | | | | | | | | | | | 4.1640 |
| Supermarket | 750600 | | | | | | | | | | | | | | | | 40.2986 |
| Apartments High Rise | 3.90907e+ 006 | | | | | | | | | | | | | | | | 209.8725 |
| Total | | | | | | | | | | | | | | | | | 1,799.435 1 |

5.3 Energy by Land Use - Electricity <u>Unmitigated</u>

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|--|--------------------|-----------|-----|------|----------------|
| Land Use | kWh/yr | | MI | ſ/yr | |
| Apartments High Rise | 2.57086e+ 006 | | | | 696.7219 |
| Condo/Townhouse High Rise | 804678 | | | | 218.0738 |
| Enclosed Parking with Elevator | 2.93294e+ 006 | | | | 794.8495 |
| General Office Building | 1.1932e+0 06 | | | | 323.3660 |
| High Turnover (Sit Down Restaurant) | | | | | 489.7385 |
| Hotel | 3.31387e+ 006 | | | | 898.0834 |
| Quality Restaurant | 1.8071e+0 06 | | | | 489.7385 |
| Strip Mall | 831828 | | | | 225.4315 |
| Supermarket | 1.4912e+0 06 | | | | 404.1262 |
| Total | | | | | 4,540.129 4 |

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|--|--------------------|-----------|-----|------|----------------|
| Land Use | kWh/yr | | Π | ſ/yr | |
| Apartments High Rise | 006 | | | | 633.8980 |
| Condo/Townhouse High Rise | 727410 | | | | 197.1335 |
| Enclosed Parking with Elevator | 2.30994e+ 006 | | | | 626.0116 |
| General Office Building | 1.04011e+ 006 | | | | 281.8768 |
| High Turnover (Sit Down Restaurant) | | | | | 457.5628 |
| Hotel | 2.88566e+ 006 | | | | 782.0355 |
| Quality Restaurant | 1.62117e+ 006 | | | | 439.3498 |
| Strip Mall | 703346 | | | | 190.6119 |
| Supermarket | 1.26458e+ 006 | | | | 342.7105 |
| Total | | | | | 3,951.190 3 |

6.0 Area Detail

6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----|-----|----|-----|------------------|-----------------|---------------|-------------------|------------------|----------------|----------|--------------|-----------|------|-----|---------|
| Category | | | | | ton | s/yr | | | | | | | M | ſ/yr | | |
| Unmitigated | | | | | | | | | | | | | | | | 62.3120 |
| Mitigated | | | | | | | | | | | | | | | | 62.3120 |

6.2 Area by SubCategory <u>Unmitigated</u>

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------------------|-----|-----|----|-----|------------------|-----------------|---------------|-------------------|------------------|----------------|----------|--------------|-----------|------|-----|---------|
| SubCategory | | | | | ton | s/yr | | | | | | | M | ī/yr | | |
| Architectural Coating | | | | | | | | | | | | | | | | 0.0000 |
| Consumer Products | | | | | | | | | | | | | | | | 0.0000 |
| Hearth | | | | | | | | | | | | | | | | 45.9037 |
| Landscaping | | | | | | | | | | | | | | | | 16.4082 |
| Total | | | | | | | | | | | | | | | | 62.3120 |

Mitigated

| | ROG | NOx | СО | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------------------|-----|-----|----|-----|------------------|-----------------|---------------|-------------------|------------------|----------------|----------|--------------|-----------|------|-----|---------|
| SubCategory | | | | | ton | s/yr | | | | | | | MT | ī/yr | | |
| Architectural Coating | | | | | | | | | | | | | | | | 0.0000 |
| Consumer Products | | | | | | | | | | | | | | | | 0.0000 |
| Hearth | | | | | | | | | | | | | | | | 45.9037 |
| Landscaping | | | | | | | | | | | | | | | | 16.4082 |
| Total | | | | | | | | | | | | | | | | 62.3120 |

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|-----|-----|----------|
| Category | | MT | /yr | |
| Unmitigated | | | | 743.7520 |
| Mitigated | | | | 449.0241 |

7.2 Water by Land Use

<u>Unmitigated</u>

| Indoor/Out | Total CO2 | CH4 | N2O | CO2e |
|------------|-----------|-----|-----|------|
| door Use | | | | |
| | | | | |

| Land Use | Mgal | MT | ſ/yr | |
|--|-----------------------|----|------|----------|
| Apartments High Rise | 49.5171 / 31.2173 | | | 330.1308 |
| Condo/Townhouse High Rise | 12.3793 / 7.80432 | | | 82.5327 |
| Enclosed Parking with Elevator | 0/0 | | | 0.0000 |
| General Office Building | 16.8847 / 10.3487 | | | 111.6793 |
| High Turnover (Sit Down Restaurant) | | | | 62.6429 |
| Hotel | 7.81297 / 0.868107 | | | 39.8726 |
| Quality Restaurant | 12.627 / 0.805979 | | | 62.6429 |
| Strip Mall | 4.57768 / 2.80568 | | | 30.2778 |
| Supermarket | 4.93073 / 0.152497 | | | 23.9730 |
| Total | | | | 743.7520 |

| | Indoor/Out door Use | Total CO2 CH4 | N2O | CO2e |
|--|------------------------|---------------|------|----------|
| Land Use | Mgal | МТ | ī/yr | |
| Apartments High Rise | 32.1861 / 15.6086 | | | 196.5442 |
| Condo/Townhouse High Rise | 8.04652 / 3.90216 | | | 49.1360 |
| Enclosed Parking with Elevator | 0/0 | | | 0.0000 |
| General Office Building | 10.9751 / 5.17435 | | | 66.5735 |
| High Turnover (Sit Down Restaurant) | | | | 39.3486 |
| Hotel | 5.07843 / 0.434054 | | | 24.9031 |
| Quality Restaurant | 8.20755 / 0.402989 | | | 39.3486 |
| Strip Mall | 2.97549 / 1.40284 | | | 18.0490 |
| Supermarket | 3.20497 / 0.0762484 | | | 15.1211 |
| Total | | | | 449.0241 |

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

| | Total CO2 | CH4 | N2O | CO2e | | | | | | |
|-------------|-----------|-----|-----|----------|--|--|--|--|--|--|
| | MT/yr | | | | | | | | | |
| - | | | | 345.1606 | | | | | | |
| Unmitigated | | | | 690.3211 | | | | | | |

8.2 Waste by Land Use <u>Unmitigated</u>

| | Waste Disposed | Total CO2 CH4 | N2O | CO2e |
|--|-------------------|---------------|------|----------|
| Land Use | tons | M | T/yr | |
| Apartments High Rise | 349.6 | | | 159.0386 |
| Condo/Townhouse High Rise | 87.4 | | | 39.7596 |
| Enclosed Parking with Elevator | 0 | | | 0.0000 |
| General Office Building | 88.35 | | | 40.1918 |
| High Turnover (Sit Down Restaurant) | | | | 225.2015 |
| Hotel | 168.63 | | | 76.7125 |
| Quality Restaurant | 37.96 | | | 17.2686 |
| Strip Mall | 64.89 | | | 29.5195 |
| Supermarket | 225.6 | | | 102.6290 |
| Total | | | | 690.3211 |

Mitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|--|-------------------|-----------|-----|-----|----------|
| Land Use | tons | | MT | /yr | |
| Apartments High Rise | 174.8 | | | | 79.5193 |
| Condo/Townhouse High Rise | 43.7 | | | | 19.8798 |
| Enclosed Parking with Elevator | 0 | | | | 0.0000 |
| General Office Building | 44.175 | | | | 20.0959 |
| High Turnover (Sit Down Restaurant) | 247.52 | | | | 112.6008 |
| Hotel | 84.315 | | | | 38.3562 |
| Quality Restaurant | 18.98 | | | | 8.6343 |
| Strip Mall | 32.445 | | | | 14.7597 |
| Supermarket | 112.8 | | | | 51.3145 |
| Total | | | | | 345.1606 |

9.0 Operational Offroad

| | Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|--|----------------|--------|-----------|-----------|-------------|-------------|-----------|
|--|----------------|--------|-----------|-----------|-------------|-------------|-----------|

10.0 Vegetation

Crossroads Hollywood Application for CEQA Streamlining

• CalEEMod Output (Project Conditions - Post 2030 RPS)

Crossroads Project Conditions-Post 2030 RPS

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-------------------------------------|----------|---------------|-------------|--------------------|------------|
| General Office Building | 95.00 | 1000sqft | 8.00 | 95,000.00 | 0 |
| Enclosed Parking with Elevator | 2,494.00 | Space | 0.00 | 997,600.00 | 0 |
| High Turnover (Sit Down Restaurant) | 41.60 | 1000sqft | 0.00 | 41,600.00 | 0 |
| Hotel | 308.00 | Room | 0.00 | 447,216.00 | 0 |
| Quality Restaurant | 41.60 | 1000sqft | 0.00 | 41,600.00 | 0 |
| Apartments High Rise | 760.00 | Dwelling Unit | 0.00 | 760,000.00 | 2174 |
| Condo/Townhouse High Rise | 190.00 | Dwelling Unit | 0.00 | 190,000.00 | 543 |
| Strip Mall | 61.80 | 1000sqft | 0.00 | 61,800.00 | 0 |
| Supermarket | 40.00 | 1000sqft | 0.00 | 40,000.00 | 0 |

1.2 Other Project Characteristics

| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 33 |
|----------------------------|-----------------------|----------------------------|-------|----------------------------|-------|
| Climate Zone | 11 | | | Operational Year | 2022 |
| Utility Company | Los Angeles Departmen | t of Water & Power | | | |
| CO2 Intensity (Ib/MWhr) | 393 | CH4 Intensity (Ib/MWhr) | 0.029 | N2O Intensity (Ib/MWhr) | 0.006 |

1.3 User Entered Comments & Non-Default Data

| Project Characteristics - RPS for Post 2030 |
|--|
| Land Use - Site Specific |
| Trips and VMT - |
| Architectural Coating - |
| Vehicle Trips - Project Specific Traffic Study |
| Vechicle Emission Factors - |
| Vechicle Emission Factors - |
| Vechicle Emission Factors - |
| Woodstoves - No fireplaces within residences |
| Area Coating - |
| Energy Use - Land uses adjusted to account for 2013/2016 Building Energy Efficiency Standards. |
| Water And Wastewater - |
| Solid Waste - |
| Mobile Land Use Mitigation - |
| Mobile Commute Mitigation - |
| Area Mitigation - |
| · · · · · · · · · · · · · · · · · · · |
| Energy Mitigation - Consistency with Title 24. |
| - |
| Energy Mitigation - Consistency with Title 24. |
| Energy Mitigation - Consistency with Title 24. Water Mitigation - |

| Table Name | Column Name | Default Value | New Value |
|------------------------|--------------------|---------------|-----------|
| tblApplianceMitigation | PercentImprovement | 30.00 | 15.00 |

| tblApplianceMitigation | PercentImprovement | 50.00 | 30.00 |
|---------------------------|--------------------|-----------|-----------|
| tblApplianceMitigation | PercentImprovement | 15.00 | 30.00 |
| tblEnergyUse | LightingElect | 2.63 | 2.33 |
| tblEnergyUse | T24E | 185.97 | 87.41 |
| tblEnergyUse | T24E | 230.21 | 108.20 |
| tblEnergyUse | T24E | 3.92 | 0.42 |
| tblEnergyUse | T24E | 5.62 | 3.65 |
| tblEnergyUse | T24E | 9.91 | 6.44 |
| tblEnergyUse | T24E | 3.12 | 2.03 |
| tblEnergyUse | T24E | 9.91 | 6.44 |
| tblEnergyUse | T24E | 4.90 | 3.19 |
| tblEnergyUse | T24E | 5.40 | 3.51 |
| tblEnergyUse | T24NG | 5,157.80 | 3,868.35 |
| tblEnergyUse | T24NG | 14,173.61 | 10,630.21 |
| tblEnergyUse | T24NG | 10.54 | 7.38 |
| tblEnergyUse | T24NG | 45.23 | 31.66 |
| tblEnergyUse | T24NG | 20.96 | 14.67 |
| tblEnergyUse | T24NG | 45.23 | 31.66 |
| tblEnergyUse | T24NG | 1.21 | 0.85 |
| tblEnergyUse | T24NG | 10.35 | 7.25 |
| tblFireplaces | NumberGas | 646.00 | 0.00 |
| tblFireplaces | NumberGas | 161.50 | 190.00 |
| tblFireplaces | NumberNoFireplace | 76.00 | 760.00 |
| tblFireplaces | NumberNoFireplace | 19.00 | 0.00 |
| tblFireplaces | NumberWood | 38.00 | 0.00 |
| tblFireplaces | NumberWood | 9.50 | 0.00 |
| tblLandUse | LotAcreage | 2.18 | 8.00 |
| tblLandUse | LotAcreage | 22.45 | 0.00 |
| tblLandUse | LotAcreage | 0.96 | 0.00 |
| tblLandUse | LotAcreage | 10.27 | 0.00 |
| tblLandUse | LotAcreage | 0.96 | 0.00 |
| tblLandUse | LotAcreage | 12.26 | 0.00 |
| tblLandUse | LotAcreage | 2.97 | 0.00 |
| tblLandUse | LotAcreage | 1.42 | 0.00 |
| tblLandUse | LotAcreage | 0.92 | 0.00 |
| tblProjectCharacteristics | CO2IntensityFactor | 1227.89 | 393 |
| tblProjectCharacteristics | OperationalYear | 2014 | 2022 |
| tblVehicleTrips | ST_TR | 7.16 | 7.23 |
| tblVehicleTrips | ST_TR | 7.16 | 4.54 |
| tblVehicleTrips | ST_TR | 42.04 | 40.50 |
| tblVehicleTrips | SU_TR | 6.07 | 6.13 |
| tblVehicleTrips | SU_TR | 6.07 | 3.85 |
| tblVehicleTrips | SU_TR | 20.43 | 19.68 |
| tblVehicleTrips | WD_TR | 6.59 | 6.65 |
| tblVehicleTrips | WD_TR | 6.59 | 4.18 |
| tblVehicleTrips | WD_TR | 11.01 | 11.03 |
| tblVehicleTrips | WD_TR | 44.32 | 42.70 |
| tblWoodstoves | NumberCatalytic | 38.00 | 0.00 |
| tblWoodstoves | NumberCatalytic | 9.50 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 38.00 | 0.00 |

| tblWoodstoves | NumberNoncatalvtic | 9.50 | 0.00 |
|-----------------|-------------------------|------|------|
| 101110000010100 | . tambén tenedatany a e | 0.00 | 0.00 |
| | | | |

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------|-----|---------|----|-----|------------------|-----------------|---------------|-------------------|------------------|----------------|----------|--------------|-----------|-----|-----|-----------------|
| Category | | tons/yr | | | | | | | | | | MT | ſ/yr | | | |
| Area | | | | | | | | | | | | | | | | 62.3120 |
| Energy | | | | | | | | | | | | | | | | 4,886.175 6 |
| Mobile | | | | | | | | | | | | | | | | 20,969.96 80 |
| Waste | | | | | | | | | | | | | | | | 690.3211 |
| Water | | | | | | | | | | | | | | | | 543.1739 |
| Total | | | | | | | | | | | | | | | | 27,151.95 05 |

Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------|-----|-----|----|-----|------------------|-----------------|---------------|-------------------|------------------|----------------|----------|--------------|-----------|------|-----|-----------------|
| Category | | | | | ton | s/yr | | | | | | | MI | ſ/yr | | |
| Area | | | | | | | | | | | | | | | | 62.3120 |
| Energy | | | | | | | | | | | | | | | | 4,414.756 3 |
| Mobile | | | | | | | | | | | | | | | | 11,754.23 85 |
| Waste | | | | | | | | | | | | | | | | 345.1606 |
| Water | | | | | | | | | | | | | | | | 330.2837 |
| Total | | | | | | | | | | | | | | | | 16,906.75 09 |

| | ROG | NOx | со | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|----------------------|-----|-----|----|-----|------------------|-----------------|---------------|-------------------|------------------|----------------|----------|----------|-----------|-----|-----|-------|
| Percent Reduction | | | | | | | | | | | | | | | | 37.73 |

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Improve Walkability Design

Improve Destination Accessibility

Increase Transit Accessibility

Integrate Below Market Rate Housing

| | ROG | NOx | со | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----|-----|----|-----|------------------|-----------------|---------------|-------------------|------------------|----------------|----------|--------------|-----------|-----|-----|-----------------|
| Category | | | | | ton | s/yr | | | | | | | МТ | /yr | | |
| Unmitigated | | | | | | | | | | | | | | | | 20,969.96 80 |
| Mitigated | | | | | | | | | | | | | | | | 11,754.23 85 |

4.2 Trip Summary Information

| | Aver | age Daily Trip Ra | ate | Unmitigated | Mitigated |
|-------------------------------------|-----------|-------------------|-----------|-------------|------------|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments High Rise | 5,054.00 | 5,494.80 | 4658.80 | 17,292,546 | 9,367,798 |
| Condo/Townhouse High Rise | 794.20 | 862.60 | 731.50 | 2,716,685 | 1,471,695 |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | | |
| General Office Building | 1,047.85 | 225.15 | 93.10 | 2,557,610 | 1,385,520 |
| High Turnover (Sit Down Restaurant) | 5,289.44 | 6,588.19 | 5484.54 | 7,499,449 | 4,062,636 |
| Hotel | 2,516.36 | 2,522.52 | 1832.60 | 5,773,484 | 3,127,638 |
| Quality Restaurant | 3,741.92 | 3,925.38 | 3001.86 | 5,213,914 | 2,824,505 |
| Strip Mall | 2,638.86 | 2,502.90 | 1216.22 | 4,597,057 | 2,490,339 |
| Supermarket | 4,089.60 | 7,103.60 | 6657.60 | 6,448,292 | 3,493,198 |
| Total | 25,172.23 | 29,225.14 | 23,676.22 | 52,099,037 | 28,223,330 |

4.3 Trip Type Information

| | | Miles | | | Trip % | | | Trip Purpos | se % |
|--------------------------------|------------|------------|-------------|-----------|------------|-------------|---------|-------------|---------|
| Land Use | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C- | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Apartments High Rise | 14.70 | 5.90 | 8.70 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Condo/Townhouse High Rise | 14.70 | 5.90 | 8.70 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Enclosed Parking with Elevator | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| General Office Building | 16.60 | 8.40 | 6.90 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| High Turnover (Sit Down | 16.60 | 8.40 | 6.90 | 8.50 | 72.50 | 19.00 | 37 | 20 | 43 |
| Hotel | 16.60 | 8.40 | 6.90 | 19.40 | 61.60 | 19.00 | 58 | 38 | 4 |
| Quality Restaurant | 16.60 | 8.40 | 6.90 | 12.00 | 69.00 | 19.00 | 38 | 18 | 44 |
| Strip Mall | 16.60 | 8.40 | 6.90 | 16.60 | 64.40 | 19.00 | 45 | 40 | 15 |
| Supermarket | 16.60 | 8.40 | 6.90 | 6.50 | 74.50 | 19.00 | 34 | 30 | 36 |

| LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0.524776 | 0.057859 | 0.179826 | 0.126122 | 0.039940 | 0.006459 | 0.017277 | 0.035948 | 0.002564 | 0.003184 | 0.003733 | 0.000527 | 0.001784 |

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24 Install High Efficiency Lighting Install Energy Efficient Appliances

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------------------|-----|-----|----|-----|------------------|-----------------|---------------|-------------------|------------------|----------------|----------|--------------|-----------|-----|-----|----------------|
| Category | | | | | ton | s/yr | | | | | | | ΜT | /yr | | |
| NaturalGas Mitigated | | | | | | | | | | | | | | | | 1,799.435 2 |
| NaturalGas Unmitigated | | | | | | | | | | | | | | | | 1,881.031 5 |
| Electricity Mitigated | | | | | | | | | | | | | | | | 2,615.321 1 |
| Electricity Unmitigated | | | 0 | | | | | | | | | | | | | 3,005.144 1 |

5.2 Energy by Land Use - NaturalGas

Unmitigated

| | NaturalGa s Use | ROG | NOx | со | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--|--------------------|-----|-----|----|-----|------------------|-----------------|---------------|-------------------|------------------|----------------|----------|-----------|-----------|-----|-----|----------------|
| Land Use | kBTU/yr | | | | | ton | is/yr | | | | | | | МТ | /yr | | |
| Apartments High Rise | 4.20307e+ 006 | | | | | | | | | | | | | | | | 225.6566 |
| Condo/Townhouse High Rise | 006 | | | | | | | | | | | | | | | | 139.5143 |
| Enclosed Parking with Elevator | | | | | | | | | | | | | | | | | 0.0000 |
| Building | 738150 | | | | | | | | | | | | | | | | 39.6302 |
| High Turnover (Sit Down Restaurant) | 9.1287e+0 06 | | | | | | | | | | | | | | | | 490.1071 |
| Hotel | 8.37636e+ 006 | | | | | | | | | | | | | | | | 449.7146 |
| Quality Restaurant | 06 | | | | | | | | | | | | | | | | 490.1071 |
| Strip Mall | 82812 | | | | | | | | | | | | | | | | 4.4461 |
| Supermarket | 779600 | | | | | | | | | | | | | | | | 41.8556 |
| Total | | | | | | | | | | | | | | | | | 1,881.031 5 |

Mitigated

| | NaturalGa s Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--|--------------------|-----|-----|----|-----|------------------|-----------------|---------------|-------------------|------------------|----------------|----------|-----------|-----------|------|-----|----------|
| Land Use | kBTU/yr | | | | | tor | is/yr | | | | | | | MI | ī/yr | | |
| Condo/Townhouse High Rise | 2.39661e+ 006 | | | | | | | | | | | | | | | | 128.6706 |
| Enclosed Parking with Elevator | 0 | | | | | | | | | | | | | | | | 0.0000 |
| General Office Building | 668040 | 0 | | | | | | | | | | | | | | | 35.8661 |
| High Turnover (Sit Down Restaurant) | | 0 | | | | | | | | | | | | | | | 483.0360 |
| Hotel | 7.72029e+ 006 | | | | | | | | | | | | | Ō | | | 414.4913 |
| Quality Restaurant | 8.997e+00 6 | | | | | | | | | | | | | | | | 483.0360 |
| Strip Mall | 77559 | | | | | | | | | | | | | | | | 4.1640 |
| Supermarket | 750600 | | 4 | | | | | | | | | | | Å | | | 40.2986 |
| Apartments High Rise | 3.90907e+ 006 | 0 | | | | | | | | | | | | ō | | | 209.8725 |

| Total | | | | | | | | | 1.799.435 |
|-------|--|--|--|--|--|--|--|--|-----------|
| | | | | | | | | | ., |
| | | | | | | | | | 1 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

5.3 Energy by Land Use - Electricity

Unmitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|--|--------------------|-----------|-----|------|----------------|
| Land Use | kWh/yr | | M | ſ/yr | |
| Apartments High Rise | 006 | | | | 461.1652 |
| Condo/Townhouse High Rise | 804678 | | | | 144.3446 |
| Inter Elevator | 006 | | | | 526.1165 |
| General Office Building | 1.1932e+0 06 | | | | 214.0383 |
| High Turnover (Sit Down Restaurant) | | | | | 324.1614 |
| Hotel | 3.31387e+ 006 | | | | 594.4478 |
| Quality Restaurant | 06 | | | | 324.1614 |
| Strip Mall | 831828 | | | | 149.2147 |
| Supermarket | 1.4912e+0 06 | | | | 267.4940 |
| Total | | | | | 3,005.144 1 |

Mitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|--|--------------------|-----------|-----|------|----------------|
| Land Use | kWh/yr | | MT | ſ/yr | |
| Apartments High Rise | 006 | | | | 419.5816 |
| Condo/Townhouse High Rise | 727410 | | | | 130.4841 |
| Enclosed Parking with Elevator | 006 | | | | 414.3615 |
| General Office Building | 1.04011e+ 006 | | | | 186.5763 |
| High Turnover (Sit Down Restaurant) | 1.68838e+ | | | | 302.8641 |
| | 2.88566e+ 006 | | | | 517.6349 |
| Quality Restaurant | 1.62117e+ 006 | 0 | | | 290.8088 |
| Strip Mall | 703346 | | | | 126.1674 |
| Supermarket | 1.26458e+ 006 | Ū | | | 226.8425 |
| Total | | | | | 2,615.321 1 |

6.0 Area Detail

6.1 Mitigation Measures Area

| | ROG | NŌx | СО | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----|-----|----|-----|------------------|-----------------|---------------|-------------------|------------------|----------------|----------|--------------|-----------|-----|-----|---------|
| Category | | | | | ton | s/yr | | | | | | | MT | /yr | | |
| Unmitigated | | | | | | | | | | | | | | | | 62.3120 |
| Mitigated | | | | | | | | | | | | | | | | 62.3120 |

6.2 Area by SubCategory

<u>Unmitigated</u>

| ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----|-----|---------|------------|------------------|-----------------|---------------|-------------------|-----------------------|-----------------------------|-----------------------------------|-----------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| | | | | ton | s/yr | | | | | | | МТ | /yr | | |
| | | | | | | | | | | | | | | | 0.0000 |
| | | | | | | | | | | | | | | | 0.0000 |
| | | | | | | | | | | | | | | | 45.9037 |
| | | | | | | | | | | | | | | | 16.4082 |
| | | | | | | | | | | | | | | | 62.3120 |
| | ROG | ROG NOX | ROG NOX CO | ROG NOX CO SO2 | PM10 | | PM10 PM10 Total | PM10 PM10 Total PM2.5 | PM10 PM10 Total PM2.5 PM2.5 | PM10 PM10 Total PM2.5 PM2.5 Total | PM10 PM10 Total PM2.5 PM2.5 Total | PM10 PM10 Total PM2.5 PM2.5 Total CO2 |

Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------------------|-----|-----|----|-----|------------------|-----------------|---------------|-------------------|------------------|----------------|----------|--------------|-----------|------|-----|---------|
| SubCategory | | | | | ton | s/yr | | | | | | | M | ſ/yr | | |
| Architectural Coating | | | | | | | | | | | | | | | | 0.0000 |
| Consumer Products | | | | | | | | | | | | | | | | 0.0000 |
| Hearth | | | | | | | | | | | | | | | | 45.9037 |
| Landscaping | | | | | | | | | | | | | | | | 16.4082 |
| Total | | | | | | | | | | | | | _ | | - | 62.3120 |

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|-----|-----|----------|
| Category | | MT | /yr | |
| Unmitigated | | | | 543.1739 |
| Mitigated | | | | 330.2837 |

7.2 Water by Land Use <u>Unmitigated</u>

| | Indoor/Out door Use | Total CO2 CH4 | N2O | CO2e |
|--|------------------------|---------------|-------|----------|
| Land Use | Mgal | | MT/yr | |
| Apartments High Rise | 31.2173 | | | 239.2762 |
| 5 | 7.80432 | | | 59.8190 |
| Enclosed Parking with Elevator | 0/0 | | | 0.0000 |
| General Office Building | 10.3487 | | | 81.0003 |
| High Turnover (Sit Down Restaurant) | | | | 46.7577 |
| Hotel | 7.81297 / 0.868107 | | | 29.6676 |
| Quality Restaurant | 12.627 / 0.805979 | | | 46.7577 |
| Strip Mall | 4.57768 / 2.80568 | | | 21.9603 |
| Supermarket | 4.93073 / 0.152497 | | | 17.9351 |
| Total | | | | 543.1739 |

Mitigated

| | Indoor/Out door Use | Total CO2 | CH4 | N2O | CO2e |
|--|------------------------|-----------|-----|-----|----------|
| Land Use | Mgal | | МТ | /yr | |
| Apartments High Rise | 32.1861 / 15.6086 | | | | 143.5881 |
| 0 | 3.90216 | | | | 35.8970 |
| Enclosed Parking with Elevator | 0/0 | | | | 0.0000 |
| General Office Building | | | | | 48.6668 |
| High Turnover (Sit Down Restaurant) | | | | | 29.4862 |
| Hotel | 5.07843 / 0.434054 | | | | 18.6127 |
| Quality Restaurant | 0.402989 | | | | 29.4862 |
| Strip Mall | 2.97549 / 1.40284 | | | | 13.1943 |
| Supermarket | 3.20497 / 0.0762484 | | | | 11.3524 |
| Total | | | | | 330.2837 |

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|-----|-----|----------|
| | | MT | /yr | |
| Mitigated | | | | 345.1606 |
| Unmitigated | | | | 690.3211 |

8.2 Waste by Land Use

Unmitigated

| | Waste Disposed | Total CO2 CH4 | N2O | CO2e |
|--|-------------------|---------------|------|----------|
| Land Use | tons | М | ſ/yr | |
| Apartments High Rise | 349.6 | | | 159.0386 |
| Condo/Townhouse High Rise | 87.4 | | | 39.7596 |
| Enclosed Parking with Elevator | 0 | | | 0.0000 |
| General Office Building | 88.35 | | | 40.1918 |
| High Turnover (Sit Down Restaurant) | 495.04 | | | 225.2015 |
| Hotel | 168.63 | | | 76.7125 |
| Quality Restaurant | 37.96 | | | 17.2686 |
| Strip Mall | 64.89 | | | 29.5195 |
| Supermarket | 225.6 | | | 102.6290 |
| Total | | | | 690.3211 |

Mitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|--|-------------------|-----------|-----|-----|----------|
| Land Use | tons | | MT | /yr | |
| Apartments High Rise | 174.8 | | | | 79.5193 |
| Condo/Townhouse High Rise | 43.7 | | | | 19.8798 |
| Enclosed Parking with Elevator | 0 | | | | 0.0000 |
| General Office Building | 44.175 | | | | 20.0959 |
| High Turnover (Sit Down Restaurant) | 247.52 | | | | 112.6008 |
| Hotel | 84.315 | | | | 38.3562 |
| Quality Restaurant | 18.98 | | | | 8.6343 |
| Strip Mall | 32.445 | | | | 14.7597 |
| Supermarket | 112.8 | | | | 51.3145 |

| Total | | 345.1606 |
|-------|--|----------|
| | | |
| | | |

9.0 Operational Offroad

| Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|-----------|-------------|-------------|-----------|

10.0 Vegetation

I