

APPENDIX E
INSTITUTE OF TRANSPORTATION ENGINEERS (ITE)
TRIP GENERATION MANUAL, 9TH EDITION

| Code Description | Unit of Measure | Daily Weekday Trips/Unit | \$/Trip | \$/Unit |
|--|------------------------|---------------------------------|----------------|----------------|
| PORT AND TERMINAL | | | | |
| 30 Truck Terminal | Acres | 81.90 | \$638 | \$52,252 |
| 90 Park and Ride Lot with Bus Service | Parking Spaces | 4.50 | \$638 | \$2,871 |
| INDUSTRIAL | | | | |
| 110 General Light Industrial | 1,000 SF | 6.97 | \$638 | \$4,447 |
| 120 General Heavy Industrial | Acres | 6.75 | \$638 | \$4,307 |
| 130 Industrial Park | 1,000 SF | 6.83 | \$638 | \$4,358 |
| 140 Manufacturing | 1,000 SF | 3.82 | \$638 | \$2,437 |
| 150 Warehousing | 1,000 SF | 3.56 | \$638 | \$2,271 |
| 151 Mini-Warehouse | 1,000 SF | 2.50 | \$638 | \$1,595 |
| 152 High-Cube Warehouse | 1,000 SF | 1.68 | \$638 | \$1,072 |
| RESIDENTIAL | | | | |
| 210 Single-Family Detached Housing | Dwelling Units | 9.52 | \$638 | \$6,074 |
| 220 Apartment | Dwelling Units | 6.65 | \$638 | \$4,243 |
| 221 Low-Rise Apartment | Dwelling Units | 6.59 | \$638 | \$4,204 |
| 230 Residential Condominium / Townhouse | Dwelling Units | 5.81 | \$638 | \$3,707 |
| 240 Mobile Home Park | Dwelling Units | 4.99 | \$638 | \$3,184 |
| 251 Senior Adult Housing -Detached | Dwelling Units | 3.68 | \$638 | \$2,348 |
| 252 Senior Adult Housing -Attached | Dwelling Units | 3.44 | \$638 | \$2,195 |
| 253 Congregate Care Facility | Dwelling Units | 2.02 | \$638 | \$1,289 |
| 254 Assisted Living | Beds | 2.74 | \$638 | \$1,748 |
| 255 Continuing Care Retirement Community | Dwelling Units | 2.40 | \$638 | \$1,531 |
| LODGING | | | | |
| 310 Hotel | Rooms | 8.17 | \$638 | \$5,212 |
| 320 Motel | Rooms | 5.63 | \$638 | \$3,592 |
| RECREATIONAL | | | | |
| 411 City Park | Acres | 1.89 | \$638 | \$1,206 |
| 412 County Park | Acres | 2.28 | \$638 | \$1,455 |
| 413 State Park | Acres | 0.65 | \$638 | \$415 |
| 415 Beach Park | Acres | 29.81 | \$638 | \$19,019 |
| 417 Regional Park | Acres | 4.57 | \$638 | \$2,916 |
| 420 Marina | Berths | 2.96 | \$638 | \$1,888 |
| 430 Golf Course | Acres | 5.04 | \$638 | \$3,216 |
| 432 Golf Driving Range | Positions | 13.65 | \$638 | \$8,709 |
| 435 Multi-Purpose Recreational Facility | Acres | 90.38 | \$638 | \$57,662 |
| 437 Bowling Alley | 1,000 SF | 33.33 | \$638 | \$21,265 |
| 443 Movie Theater without Matinee | 1,000 SF | 78.06 | \$638 | \$49,802 |
| 452 Horse Race Track | Acres | 43.00 | \$638 | \$27,434 |
| 460 Arena | Acres | 33.33 | \$638 | \$21,265 |
| 480 Amusement Park | Acres | 75.76 | \$638 | \$48,335 |
| 488 Soccer Complex | Fields | 71.33 | \$638 | \$45,509 |
| 490 Tennis Courts | Courts | 31.04 | \$638 | \$19,804 |
| 491 Racquet / Tennis Club | Courts | 38.70 | \$638 | \$24,691 |
| 492 Health / Fitness Club | 1,000 SF | 32.93 | \$638 | \$21,009 |

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| 493 Athletic Club | 1,000 SF | 43.00 | \$638 | \$27,434 |
| 495 Recreational Community Center | 1,000 SF | 33.82 | \$638 | \$21,577 |
| INSTITUTIONAL | | | | |
| 520 Elementary School | 1,000 SF | 15.43 | \$638 | \$9,844 |
| 522 Middle School / Junior High School | 1,000 SF | 13.78 | \$638 | \$8,792 |
| 530 High School | 1,000 SF | 12.89 | \$638 | \$8,224 |
| 536 Private School (K-12) | Students | 2.48 | \$638 | \$1,582 |
| 540 Junior / Community College | 1,000 SF | 27.49 | \$638 | \$17,539 |
| 560 Church | 1,000 SF | 9.11 | \$638 | \$5,812 |
| 565 Daycare Center | 1,000 SF | 74.06 | \$638 | \$47,250 |
| 566 Cemetery | Acres | 4.73 | \$638 | \$3,018 |
| 590 Library | 1,000 SF | 56.24 | \$638 | \$35,881 |
| 591 Lodge / Fraternal Organization | Members | 0.29 | \$638 | \$185 |
| MEDICAL | | | | |
| 610 Hospital | 1,000 SF | 6.95 | \$638 | \$4,434 |
| 620 Nursing Home | 1,000 SF | 7.60 | \$638 | \$4,849 |
| 630 Clinic | 1,000 SF | 8.01 | \$638 | \$5,110 |
| OFFICE | | | | |
| 710 General Office Building | 1,000 SF | 11.03 | \$638 | \$7,037 |
| 714 Corporate Headquarters Building | 1,000 SF | 7.98 | \$638 | \$5,091 |
| 715 Single Tenant Office Building | 1,000 SF | 11.65 | \$638 | \$7,433 |
| 720 Medical-Dental Office Building | 1,000 SF | 36.13 | \$638 | \$23,051 |
| 730 Government Office Building | 1,000 SF | 68.93 | \$638 | \$43,977 |
| 732 United States Post Office | 1,000 SF | 108.19 | \$638 | \$69,025 |
| 733 Government Office Complex | 1,000 SF | 27.92 | \$638 | \$17,813 |
| 750 Office Park | 1,000 SF | 0.76 | \$638 | \$485 |
| 760 Research and Development Center | 1,000 SF | 8.11 | \$638 | \$5,174 |
| 770 Business Park | 1,000 SF | 12.44 | \$638 | \$7,937 |
| RETAIL | | | | |
| 812 Building Materials and Lumber Store | 1,000 SF | 45.16 | \$638 | \$28,812 |
| 813 Free-Standing Discount Superstore | 1,000 SF | 50.75 | \$638 | \$32,379 |
| 814 Variety Store | 1,000 SF | 64.03 | \$638 | \$40,851 |
| 815 Free Standing Discount Store | 1,000 SF | 57.24 | \$638 | \$36,519 |
| 816 Hardware / Paint Store | 1,000 SF | 51.29 | \$638 | \$32,723 |
| 817 Nursery (Garden Center) | 1,000 SF | 68.10 | \$638 | \$43,448 |
| 818 Nursery (Wholesale) | 1,000 SF | 39.00 | \$638 | \$24,882 |
| 820 Shopping Center | 1,000 SF | 42.70 | \$638 | \$27,243 |
| 823 Factory Outlet Center | 1,000 SF | 26.59 | \$638 | \$16,964 |
| 826 Specialty Retail Center | 1,000 SF | 44.32 | \$638 | \$28,276 |
| 841 New Car Sales | 1,000 SF | 32.30 | \$638 | \$20,607 |
| 843 Automobile Parts Sales | 1,000 SF | 61.91 | \$638 | \$39,499 |
| 848 Tire Store | 1,000 SF | 24.87 | \$638 | \$15,867 |
| 850 Supermarket | 1,000 SF | 102.24 | \$638 | \$65,229 |
| 851 Convenience Market (Open 24 Hours) | 1,000 SF | 737.99 | \$638 | \$470,838 |

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| 853 Convenience Market with Gasoline Pumps | 1,000 SF | 845.60 | \$638 | \$539,493 |
| 854 Discount Supermarket | 1,000 SF | 90.86 | \$638 | \$57,969 |
| 857 Discount Club | 1,000 SF | 41.80 | \$638 | \$26,668 |
| 860 Wholesale Market | 1,000 SF | 6.73 | \$638 | \$4,294 |
| 862 Home Improvement Superstore | 1,000 SF | 30.74 | \$638 | \$19,612 |
| 863 Electronics Superstore | 1,000 SF | 45.04 | \$638 | \$28,736 |
| 875 Department Store | 1,000 SF | 22.88 | \$638 | \$14,597 |
| 876 Apparel Store | 1,000 SF | 66.40 | \$638 | \$42,363 |
| 879 Arts and Craft Store | 1,000 SF | 56.55 | \$638 | \$36,079 |
| 880 Pharmacy / Drugstore without Drive-Through Window | 1,000 SF | 90.06 | \$638 | \$57,458 |
| 881 Pharmacy / Drugstore with Drive-Through Window | 1,000 SF | 96.91 | \$638 | \$61,829 |
| 890 Furniture Store | 1,000 SF | 5.06 | \$638 | \$3,228 |
| SERVICES | | | | |
| 912 Drive-In Bank | 1,000 SF | 148.15 | \$638 | \$94,520 |
| 931 Quality Restaurant | 1,000 SF | 89.95 | \$638 | \$57,388 |
| 932 High-Turnover (Sit-Down) Restaurant | 1,000 SF | 127.15 | \$638 | \$81,122 |
| 933 Fast Food Restaurant without Drive-Through Window | 1,000 SF | 716.00 | \$638 | \$456,808 |
| 934 Fast Food Restaurant with Drive-Through Window | 1,000 SF | 496.12 | \$638 | \$316,525 |
| 937 Coffee / Donut Shop with Drive-Through Window | 1,000 SF | 818.58 | \$638 | \$522,254 |
| 938 Coffee / Donut Shop with Drive-Through Window and No Indoor Seating | 1,000 SF | 1,800.00 | \$638 | \$1,148,400 |
| 941 Quick Lubrication Vehicle Shop | Service Bays | 40.00 | \$638 | \$25,520 |
| 944 Gasoline / Service Station | Fueling Positions | 168.56 | \$638 | \$107,541 |
| 945 Gasoline / Service Station with Convenience Market | Fueling Positions | 162.78 | \$638 | \$103,854 |
| 946 Gasoline / Service Station with Convenience Market and Car Wash | Fueling Positions | 152.84 | \$638 | \$97,512 |
| 947 Self Service Car Wash | Stalls | 108.00 | \$638 | \$68,904 |