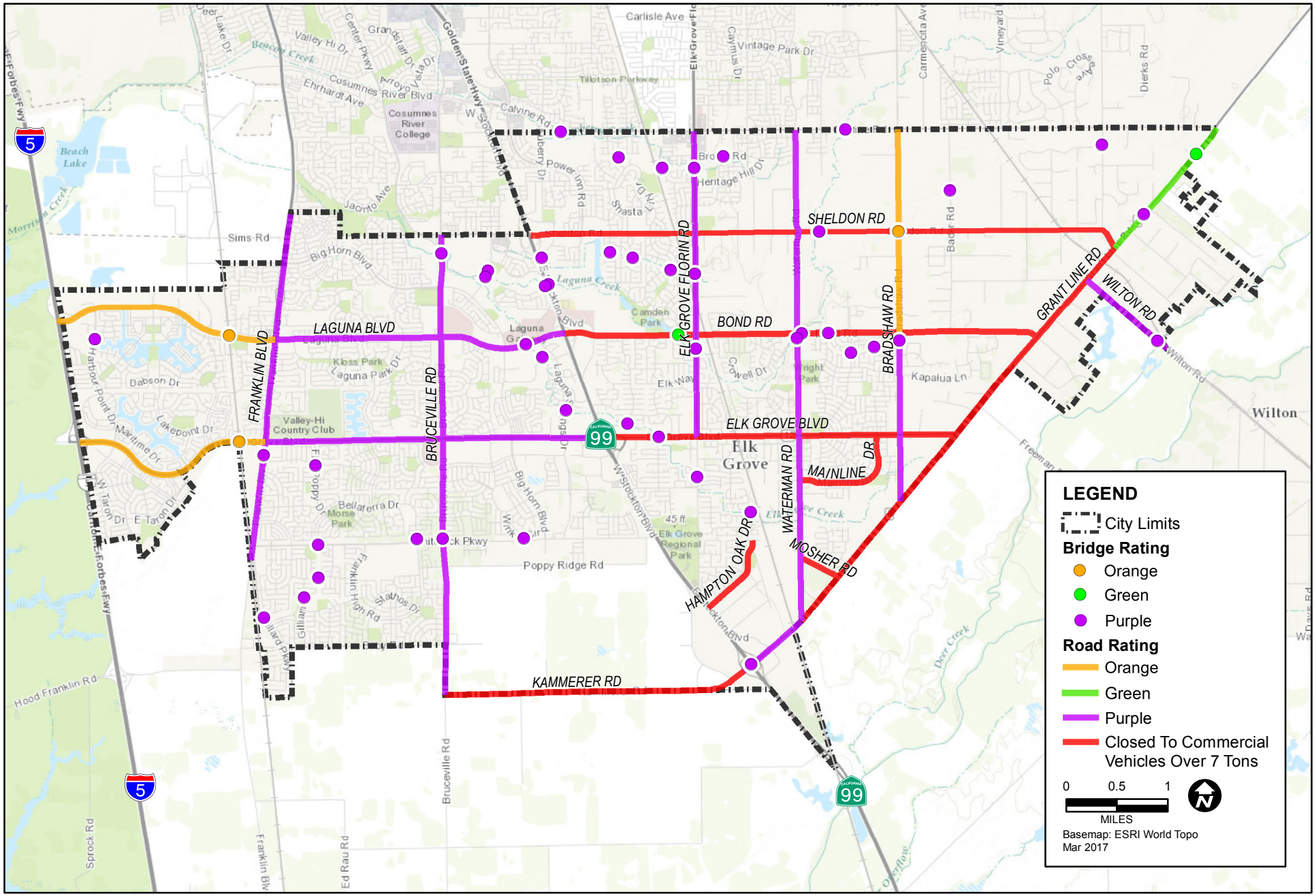
Road Segment & Bridge Weight Ratings



APPENDIX 20
WEIGHT CHART (PLATE 25-3)

*ORANGE AND BONUS OVERLOADS**

MAXIMUM PERMIT WEIGHT ON TANDEM AXLES = 42,800 POUNDS

Example: 8' - 0" Distance Between First and Last Axle in Feet

33,600	4 tires, 8' - 0" Wide	Orange Load = 700 (L + 40) [Min. = 32,000]
38,640	8 tires, 8' - 0" Wide	Orange Load (+ 15%) = 1.15 x 700 (L + 40) [Min. = 36,800]
42,000	8 tires, 10' - 0" Wide	Orange Load (+ 25%) = 1.25 x 700 (L + 40) [Min. = 40,000]

FT. \ IN.	0	1	2	3	4	5	6	7	8	9	10	11
2	20,000 23,000 25,000	20,000 23,000 25,000	20,000 23,000 25,000	20,000 23,000 25,000	20,000 23,000 25,000	20,000 23,000 25,000	20,000 23,000 25,000	20,000 23,000 25,000	20,000 23,000 25,000	20,000 23,000 25,000	20,000 23,000 25,000	20,000 23,000 25,000
3	20,000 23,000 25,000	20,000 23,000 25,000	20,000 23,000 25,000	20,000 23,000 25,000	20,000 23,000 25,000	20,000 23,000 25,000	32,000 36,800 40,000	32,000 36,800 40,000	32,000 36,800 40,000	32,000 36,800 40,000	32,000 36,800 40,000	32,000 36,800 40,000
4	32,000 36,800 40,000	32,000 36,800 40,000	32,000 36,800 40,000	32,000 36,800 40,000	32,000 36,800 40,000	32,000 36,800 40,000	32,000 36,800 40,000	32,000 36,800 40,000	32,000 36,800 40,000	32,000 36,800 40,000	32,000 36,800 40,000	32,000 36,800 40,000
5	32,000 36,800 40,000	32,000 36,800 40,000	32,000 36,800 40,000	32,000 36,800 40,000	32,000 36,800 40,000	32,000 36,800 40,000	32,000 36,800 40,000	32,000 36,800 40,000	32,000 36,800 40,000	32,025 36,829 40,031	32,083 36,896 40,104	32,142 36,963 40,177
6	32,200 37,030 40,250	32,258 37,097 40,323	32,317 37,164 40,396	32,375 37,231 40,469	32,433 37,298 40,542	32,492 37,365 40,615	32,550 37,433 40,688	32,608 37,500 40,760	32,667 37,567 40,833	32,725 37,634 40,906	32,783 37,701 40,979	32,842 37,768 41,052
7	32,900 37,835 41,125	32,958 37,902 41,198	33,017 37,969 41,271	33,075 38,036 41,344	33,133 38,103 41,417	33,192 38,170 41,490	33,250 38,238 41,563	33,308 38,305 41,635	33,367 38,372 41,708	33,425 38,439 41,781	33,483 38,506 41,854	33,542 38,573 41,927
8	33,600 38,640 42,000	33,658 38,707 42,073	33,717 38,774 42,146	33,775 38,841 42,219	33,833 38,908 42,292	33,892 38,975 42,365	33,950 39,043 42,438	34,008 39,110 42,510	34,067 39,177 42,583	34,125 39,244 42,656	34,183 39,311 42,729	34,242 39,378 42,802
9	34,300 39,445 42,875	34,358 39,512 42,948	34,417 39,579 43,021	34,475 39,646 43,094	34,533 39,713 43,167	34,592 39,780 43,240	34,650 39,848 43,313	34,708 39,915 43,385	34,767 39,982 43,458	34,825 40,049 43,531	34,883 40,116 43,604	34,942 40,183 43,677
10	35,000 40,250 43,750	35,058 40,317 43,823	35,117 40,384 43,896	35,175 40,451 43,969	35,233 40,518 44,042	35,292 40,585 44,115	35,350 40,653 44,188	35,408 40,720 44,260	35,467 40,787 44,333	35,525 40,854 44,406	35,583 40,921 44,479	35,642 40,988 44,552
11	35,700 41,055 44,625	35,758 41,122 44,698	35,817 41,189 44,771	35,875 41,256 44,844	35,933 41,323 44,917	35,992 41,390 44,990	36,050 41,458 45,063	36,108 41,525 45,135	36,167 41,592 45,208	36,225 41,659 45,281	36,283 41,726 45,354	36,342 41,793 45,427
12	36,400 41,860 45,500	36,458 41,927 45,573	36,517 41,994 45,646	36,575 42,061 45,719	36,633 42,128 45,792	36,692 42,195 45,865	36,750 42,263 45,938	36,808 42,330 46,010	36,867 42,397 46,083	36,925 42,464 46,156	36,983 42,531 46,229	37,042 42,598 46,302
13	37,100 42,665 46,375	37,158 42,732 46,448	37,217 42,799 46,521	37,275 42,866 46,594	37,333 42,933 46,667	37,392 43,000 46,740	37,450 43,068 46,813	37,508 43,135 46,885	37,567 43,202 46,958	37,625 43,269 47,031	37,683 43,336 47,104	37,742 43,403 47,177
14	37,800 43,470 47,250	37,858 43,537 47,323	37,917 43,604 47,396	37,975 43,671 47,469	38,033 43,738 47,542	38,092 43,805 47,615	38,150 43,873 47,688	38,208 43,940 47,760	38,267 44,007 47,833	38,325 44,074 47,906	38,383 44,141 47,979	38,442 44,208 48,052
15	38,500 44,275 48,125	38,558 44,342 48,198	38,617 44,409 48,271	38,675 44,476 48,344	38,733 44,543 48,417	38,792 44,610 48,490	38,850 44,678 48,563	38,908 44,745 48,635	38,967 44,812 48,708	39,025 44,879 48,781	39,083 44,946 48,854	39,142 45,013 48,927
16	39,200 45,080 49,000	39,258 45,147 49,073	39,317 45,214 49,146	39,375 45,281 49,219	39,433 45,348 49,292	39,492 45,415 49,365	39,550 45,483 49,438	39,608 45,550 49,510	39,667 45,617 49,583	39,725 45,684 49,656	39,783 45,751 49,729	39,842 45,818 49,802
17	39,900 45,885 49,875	39,958 45,952 49,948	40,017 46,019 50,021	40,075 46,086 50,094	40,133 46,153 50,167	40,192 46,220 50,240	40,250 46,288 50,313	40,308 46,355 50,385	40,367 46,422 50,458	40,425 46,489 50,531	40,483 46,556 50,604	40,542 46,623 50,677
18	40,600 46,690 50,750											

* A set of tandem axles with spacing between axles of less than 3' - 6" is considered as a single axle.

APPENDIX 20
WEIGHT CHART (PLATE 25-4)

*GREEN AND BONUS OVERLOADS**

MAXIMUM PERMIT WEIGHT ON TANDEM AXLES = 52,000 POUNDS

Example: 8' - 0" Distance Between First and Last Axle in Feet

43,680	4 tires, 8' - 0" Wide	Green Load = 1.3 x 700 (L + 40)
50,232	8 tires, 8' - 0" Wide	Green Load (+ 15%) = 1.15 x 1.3 x 700 (L + 40)
54,600	8 tires, 10' - 0" Wide	Green Load (+ 25%) = 1.25 x 1.3 x 700 (L + 40)

FT. \ IN.	0	1	2	3	4	5	6	7	8	9	10	11
2	24,000 27,600 30,000	24,000 27,600 30,000	24,000 27,600 30,000	24,000 27,600 30,000	24,000 27,600 30,000	24,000 27,600 30,000	24,000 27,600 30,000	24,000 27,600 30,000	24,000 27,600 30,000	24,000 27,600 30,000	24,000 27,600 30,000	24,000 27,600 30,000
3	24,000 27,600 30,000	24,000 27,600 30,000	24,000 27,600 30,000	24,000 27,600 30,000	24,000 27,600 30,000	24,000 27,600 30,000	39,585 45,523 49,481	39,661 45,610 49,576	39,737 45,697 49,671	39,813 45,784 49,766	39,888 45,872 49,860	39,964 45,959 49,955
4	40,040 46,046 50,050	40,116 46,133 50,145	40,192 46,220 50,240	40,268 46,308 50,334	40,343 46,395 50,429	40,419 46,482 50,524	40,495 46,569 50,619	40,571 46,656 50,714	40,647 46,744 50,808	40,723 46,831 50,903	40,798 46,918 50,998	40,874 47,005 51,093
5	40,950 47,093 51,188	41,026 47,180 51,282	41,102 47,267 51,377	41,178 47,354 51,472	41,253 47,441 51,567	41,329 47,529 51,661	41,405 47,616 51,756	41,481 47,703 51,851	41,557 47,790 51,946	41,633 47,877 52,041	41,708 47,965 52,135	41,784 48,052 52,230
6	41,860 48,139 52,325	41,936 48,226 52,420	42,012 48,313 52,515	42,088 48,401 52,609	42,163 48,488 52,704	42,239 48,575 52,799	42,315 48,662 52,894	42,391 48,749 52,989	42,467 48,837 53,083	42,543 48,924 53,178	42,618 49,011 53,273	42,694 49,098 53,368
7	42,770 49,186 53,463	42,846 49,273 53,557	42,922 49,360 53,652	42,998 49,447 53,747	43,073 49,534 53,842	43,149 49,622 53,936	43,225 49,709 54,031	43,301 49,796 54,126	43,377 49,883 54,221	43,453 49,970 54,316	43,528 50,058 54,410	43,604 50,145 54,505
8	43,680 50,232 54,600	43,756 50,319 54,695	43,832 50,406 54,790	43,908 50,494 54,884	43,983 50,581 54,979	44,059 50,668 55,074	44,135 50,755 55,169	44,211 50,842 55,264	44,287 50,930 55,358	44,363 51,017 55,453	44,438 51,104 55,548	44,514 51,191 55,643
9	44,590 51,279 55,738	44,666 51,366 55,832	44,742 51,453 55,927	44,818 51,540 56,022	44,893 51,627 56,117	44,969 51,715 56,211	45,045 51,802 56,306	45,121 51,889 56,401	45,197 51,976 56,496	45,273 52,063 56,591	45,348 52,151 56,685	45,424 52,238 56,780
10	45,500 52,325 56,875	45,576 52,412 56,970	45,652 52,499 57,065	45,728 52,587 57,159	45,803 52,674 57,254	45,879 52,761 57,349	45,955 52,848 57,444	46,031 52,935 57,539	46,107 53,023 57,633	46,183 53,110 57,728	46,258 53,197 57,823	46,334 53,284 57,918
11	46,410 53,372 58,013	46,486 53,459 58,107	46,562 53,546 58,202	46,638 53,633 58,297	46,713 53,720 58,392	46,789 53,808 58,486	46,865 53,895 58,581	46,941 53,982 58,676	47,017 54,069 58,771	47,093 54,156 58,866	47,168 54,244 58,960	47,244 54,331 59,055
12	47,320 54,418 59,150	47,396 54,505 59,245	47,472 54,592 59,340	47,548 54,680 59,434	47,623 54,767 59,529	47,699 54,854 59,624	47,775 54,941 59,719	47,851 55,028 59,814	47,927 55,116 59,908	48,003 55,203 60,003	48,078 55,290 60,098	48,154 55,377 60,193
13	48,230 55,465 60,288	48,306 55,552 60,382	48,382 55,639 60,477	48,458 55,726 60,572	48,533 55,813 60,667	48,609 55,901 60,761	48,685 55,988 60,856	48,761 56,075 60,951	48,837 56,162 61,046	48,913 56,249 61,141	48,988 56,337 61,235	49,064 56,424 61,330
14	49,140 56,511 61,425	49,216 56,598 61,520	49,292 56,685 61,615	49,368 56,773 61,709	49,443 56,860 61,804	49,519 56,947 61,899	49,595 57,034 61,994	49,671 57,121 62,089	49,747 57,209 62,183	49,823 57,296 62,278	49,898 57,383 62,373	49,974 57,470 62,468
15	50,050 57,558 62,563	50,126 57,645 62,657	50,202 57,732 62,752	50,278 57,819 62,847	50,353 57,906 62,942	50,429 57,994 63,036	50,505 58,081 63,131	50,581 58,168 63,226	50,657 58,255 63,321	50,733 58,342 63,416	50,808 58,430 63,510	50,884 58,517 63,605
16	50,960 58,604 63,700	51,036 58,691 63,795	51,112 58,778 63,890	51,188 58,866 63,984	51,263 58,953 64,079	51,339 59,040 64,174	51,415 59,127 64,269	51,491 59,214 64,364	51,567 59,302 64,458	51,643 59,389 64,553	51,718 59,476 64,648	51,794 59,563 64,743
17	51,870 59,651 64,838	51,946 59,738 64,932	52,022 59,825 65,027	52,098 59,912 65,122	52,173 59,999 65,217	52,249 60,087 65,311	52,325 60,174 65,406	52,401 60,261 65,501	52,477 60,348 65,596	52,553 60,435 65,691	52,628 60,523 65,785	52,704 60,610 65,880
18	52,780 60,697 65,975											

* A set of tandem axles with spacing between axles of less than 3' - 6" is considered as a single axle.

APPENDIX 20
WEIGHT CHART (PLATE 25-5)

*PURPLE AND BONUS OVERLOADS**

MAXIMUM PERMIT WEIGHT ON TANDEM AXLES = 60,000 POUNDS

Example: 8' - 0" Distance Between First and Last Axle in Feet

50,400	4 tires, 8' - 0" Wide	Purple Load = 1.5 x 700 (L + 40)
57,960	8 tires, 8' - 0" Wide	Purple Load (+ 15%) = 1.15 x 1.5 x 700 (L + 40)
63,000	8 tires, 10' - 0" Wide	Purple Load (+ 25%) = 1.25 x 1.5 x 700 (L + 40)

FT. \ IN.	0	1	2	3	4	5	6	7	8	9	10	11
2	28,000 32,000 35,000	28,000 32,000 35,000	28,000 32,000 35,000	28,000 32,000 35,000	28,000 32,000 35,000	28,000 32,000 35,000	28,000 32,000 35,000	28,000 32,000 35,000	28,000 32,000 35,000	28,000 32,000 35,000	28,000 32,000 35,000	28,000 32,000 35,000
3	28,000 32,200 35,000	28,000 32,200 35,000	28,000 32,200 35,000	28,000 32,200 35,000	28,000 32,200 35,000	28,000 32,200 35,000	45,675 52,526 57,094	45,763 52,627 57,203	45,850 52,728 57,313	45,938 52,828 57,422	46,025 52,929 57,531	46,113 53,029 57,641
4	46,200 53,130 57,750	46,288 53,231 57,859	46,375 53,331 57,969	46,463 53,432 58,078	46,550 53,533 58,188	46,638 53,633 58,297	46,725 53,734 58,406	46,813 53,834 58,516	46,900 53,935 58,625	46,988 54,036 58,734	47,075 54,136 58,844	47,163 54,237 58,953
5	47,250 54,338 59,063	47,338 54,438 59,172	47,425 54,539 59,281	47,513 54,639 59,391	47,600 54,740 59,500	47,688 54,841 59,609	47,775 54,941 59,719	47,863 55,042 59,828	47,950 55,143 59,938	48,038 55,243 60,047	48,125 55,344 60,156	48,213 55,444 60,266
6	48,300 55,545 60,375	48,388 55,646 60,484	48,475 55,746 60,594	48,563 55,847 60,703	48,650 55,948 60,813	48,738 56,048 60,922	48,825 56,149 61,031	48,913 56,249 61,141	49,000 56,350 61,250	49,088 56,451 61,359	49,175 56,551 61,469	49,263 56,652 61,578
7	49,350 56,753 61,688	49,438 56,853 61,797	49,525 56,954 61,906	49,613 57,054 62,016	49,700 57,155 62,125	49,788 57,256 62,234	49,875 57,356 62,344	49,963 57,457 62,453	50,050 57,558 62,563	50,138 57,658 62,672	50,225 57,759 62,781	50,313 57,859 62,891
8	50,400 57,960 63,000	50,488 58,061 63,109	50,575 58,161 63,219	50,663 58,262 63,328	50,750 58,363 63,438	50,838 58,463 63,547	50,925 58,564 63,656	51,013 58,664 63,766	51,100 58,765 63,875	51,188 58,866 63,984	51,275 58,966 64,094	51,363 59,067 64,203
9	51,450 59,168 64,313	51,538 59,268 64,422	51,625 59,369 64,531	51,713 59,469 64,641	51,800 59,570 64,750	51,888 59,671 64,859	51,975 59,771 64,969	52,063 59,872 65,078	52,150 59,973 65,188	52,238 60,073 65,297	52,325 60,174 65,406	52,413 60,274 65,516
10	52,500 60,375 65,625	52,588 60,476 65,734	52,675 60,576 65,844	52,763 60,677 65,953	52,850 60,778 66,063	52,938 60,878 66,172	53,025 60,979 66,281	53,113 61,079 66,391	53,200 61,180 66,500	53,288 61,281 66,609	53,375 61,381 66,719	53,463 61,482 66,828
11	53,550 61,583 66,938	53,638 61,683 67,047	53,725 61,784 67,156	53,813 61,884 67,266	53,900 61,985 67,375	53,988 62,086 67,484	54,075 62,186 67,594	54,163 62,287 67,703	54,250 62,388 67,813	54,338 62,488 67,922	54,425 62,589 68,031	54,513 62,689 68,141
12	54,600 62,790 68,250	54,688 62,891 68,359	54,775 62,991 68,469	54,863 63,092 68,578	54,950 63,193 68,688	55,038 63,293 68,797	55,125 63,394 68,906	55,213 63,494 69,016	55,300 63,595 69,125	55,388 63,696 69,234	55,475 63,796 69,344	55,563 63,897 69,453
13	55,650 63,998 69,563	55,738 64,098 69,672	55,825 64,199 69,781	55,913 64,299 69,891	56,000 64,400 70,000	56,088 64,501 70,109	56,175 64,601 70,219	56,263 64,702 70,328	56,350 64,803 70,438	56,438 64,903 70,547	56,525 65,004 70,656	56,613 65,104 70,766
14	56,700 65,205 70,875	56,788 65,306 70,984	56,875 65,406 71,094	56,963 65,507 71,203	57,050 65,608 71,313	57,138 65,708 71,422	57,225 65,809 71,531	57,313 65,909 71,641	57,400 66,010 71,750	57,488 66,111 71,859	57,575 66,211 71,969	57,663 66,312 72,078
15	57,750 66,413 72,188	57,838 66,513 72,297	57,925 66,614 72,406	58,013 66,714 72,516	58,100 66,815 72,625	58,188 66,916 72,734	58,275 67,016 72,844	58,363 67,117 72,953	58,450 67,218 73,063	58,538 67,318 73,172	58,625 67,419 73,281	58,713 67,519 73,391
16	58,800 67,620 73,500	58,888 67,721 73,609	58,975 67,821 73,719	59,063 67,922 73,828	59,150 68,023 73,938	59,238 68,123 74,047	59,325 68,224 74,156	59,413 68,324 74,266	59,500 68,425 74,375	59,588 68,526 74,484	59,675 68,626 74,594	59,763 68,727 74,703
17	59,850 68,828 74,813	59,938 68,928 74,922	60,025 69,029 75,031	60,113 69,129 75,141	60,200 69,230 75,250	60,288 69,331 75,359	60,375 69,431 75,469	60,463 69,532 75,578	60,550 69,633 75,688	60,638 69,733 75,797	60,725 69,834 75,906	60,813 69,934 76,016
18	60,900 70,035 76,125											

* A set of tandem axles with spacing between axles of less than 3' - 6" is considered as a single axle.