A. Zoning District Pair Comparisons

| Current Zoning <br> District | Proposed Zoning District |
| :---: | :---: |
| $\mathrm{B}-3$ | $\mathrm{~B}-3$ |
|  | NMU |
|  | CMU |
|  | RMU |
|  | $\mathrm{R}-4 \mathrm{~A}$ |
| $\mathrm{R}-\mathrm{O}$ | MT |
|  | $\mathrm{R}-\mathrm{O}$ |
|  | $\mathrm{R}-4 \mathrm{~A}$ |
|  | $\mathrm{R}-4$ |
|  | $\mathrm{R}-4 \mathrm{~A}$ |
|  | $\mathrm{I}-1$ |
| $\mathrm{I}-2$ | $\mathrm{I}-2$ |
|  | $\mathrm{~B}-3$ |
|  | CMU |
|  | RMU |
|  | $\mathrm{I}-1$ |

Title 21 Economic Impact Analysis Model

The following land use categories are based primarily on the draft EIA Report's ranking of the most common types of uses in the Bowl. Derived from municipal Assessor data, the names and some categories on the list were modified to match the names and categorization of equivalent land use types in Title 21. Categories can be added or removed from the model as necessary. For example, the "restaurant" use, while not the most common type of land use category in the Assessor file, was added to the list.

| Use | Comments |  |
| :--- | :--- | :--- |
| 1 | Multifamily or Mixed-use Dwelling, - 1 Bedroom |  |
| 2 | Multifamily or Mixed-use Dwelling, - 2 Bedroom |  |
| 3 | Multifamily or Mixed-use Dwelling, - 3 Bedroom |  |
| 4 | Hotel Visitor Accommodations |  |
| 5 | Office - business, professional and financial |  |
| 6 | Office - health and medical |  |
| 7 | Restaurant |  |
| 8 | Retail, grocery store |  |
| 9 | Retail, general - general, convenience store, building <br> materials store, other retail | Retail with lower parking need - pharmacy, video rental, liquor <br> store, wholesale, business service, vehicle parts stores |
| 11 | Retail, large durable goods store - furniture, home appliance, <br> flooring |  |
| 12 | Manufacturing, small (LT 5,000 sf) |  |
| 13 | Manufacturing, large (GT 5,000 sf) |  |
| 14 | Warehouse, small (LT 50,000 sf) |  |
| 15 | Warehouse, large (GT 50,000 sf) |  |

Title 21 Economic Impact Analysis Model
Municipality of Anchorage
February 29, 2008

Note: A table of Project Development Categories will be available with the addendum to the EIA.
D. Model Dimensional Assumptions

| Building Floor Plate | Floor Area (Square Feet) |  |
| :--- | ---: | ---: |
| Minimum footprint size for a one-story building |  | 1,000 |
| Minimum footprint size for a 2 - 5 story building |  | 5,000 |
| Minimum footprint size for a building taller than 5 stories |  | 10,000 |
| Minimum footprint size for structured parking area |  | 5,000 |

Note: Model should use this factor to ensure that none of the test cases creates an unrealistic building floor
plate, because this would create unrealistic assumptions about how much parking can get on site.

| Site element Size | Area (Square Feet) |  |
| :--- | :--- | ---: |
| Surface Parking Space | Square feet of land area | 400 |
| Ground-level Parking Space (under the building) | Square feet of gross floor area | 350 |
| Parking Structure Parking Space | Square feet of gross floor area | 350 |
| Type A Loading Berth | Square feet of land area | 800 |
| Type B Loading Berth | Square feet of land area | 400 |
| Does structured parking count toward gross floor area in FAR <br> calculation in Title 21 Rewrite? | No in old Title 21 R-4 zone; yes in new <br> Title 21. |  |


| Dwelling Unit | Gross Floor Area (Square Feet) <br> - GFA of building per dwelling | Affordable Unit <br> - sf of unit itself |  |
| :--- | ---: | ---: | ---: |
| Dwelling, Multifamily - Efficiency |  | 600 |  |
| Dwelling, Multifamily or Mixed-use - 1 Bedroom |  | 600 |  |
| Dwelling, Multifamily or Mixed-use -2 Bedroom |  | 700 |  |
| Dwelling, Multifamily or Mixed-use - 3 Bedroom |  | 1,000 |  |
| Hotel Guest Room |  | 1,400 |  |

Title 21 Economic Impact Analysis Model
Municipality of Anchorage
February 29, 2008


Title 21 Economic Impact Analysis Model
Municipality of Anchorage
February 29, 2008

| Building Construction - Non-industrial Development Projects (For technical reasons having to do with model functions and references, the following list includes all uses in the model, including uses that are unlikely to be in nonindustrial projects) | Per Gross Square Foot |  |  |
| :---: | :---: | :---: | :---: |
|  | Current Title 21 | Proposed Title 21 | \% Adjustment for Proposed Architectural Standards |
| Dwelling, Multifamily or Mixed-use - Efficiency or Studio | \$150 | \$158 | 5\% |
| Dwelling, Multifamily or Mixed-use - 1 Bedroom | \$150 | \$158 | 5\% |
| Dwelling, Multifamily or Mixed-use - 2 Bedroom | \$150 | \$158 | 5\% |
| Dwelling, Multifamily or Mixed-use - 3 Bedroom | \$150 | \$158 | 5\% |
| Hotel | \$175 | \$184 | 5\% |
| Office, business, professional and financial | \$175 | \$184 | 5\% |
| Office, health and medical | \$265 | \$278 | 5\% |
| Health Club/Fitness Center | \$175 | \$184 | 5\% |
| Restaurant | \$175 | \$184 | 5\% |
| Retail, grocery | \$175 | \$184 | 5\% |
| Retail, general - general, convenience store, building materials | \$175 | \$184 | 5\% |
| Retail, other - pharmacy, video rental, liquor store, wholesale, business service, vehicle parts stores | \$175 | \$184 | 5\% |
| Retail, large goods - furniture, home appliance, flooring | \$125 | \$131 | 5\% |
| Retail, large shopping mall | \$145 | \$152 | 5\% |
| Manufacturing, small | \$130 | \$137 | 5\% |
| Manufacturing, large | \$120 | \$126 | 5\% |
| Warehouse, small | \$115 | \$121 | 5\% |
| Warehouse, large | \$110 | \$116 | 5\% |
| Accessory storage/mechanical area | \$125 | \$131 | 5\% |

Title 21 Economic Impact Analysis Model
Municipality of Anchorage
February 29, 2008

| Building Construction - for use in testing <br> Industrial Development Projects (For technical <br> reasons having to do with model functions and <br> references, the following list includes all uses in <br> the model, including uses that are unlikely to be <br> in industrial projects) | Per Gross Square Foot |  |  |
| :--- | ---: | ---: | ---: |

Title 21 Economic Impact Analysis Model
Municipality of Anchorage
February 29, 2008

| Parking Construction | $\$$ | 8,000 per space |  |
| :--- | :--- | ---: | :--- |
| Surface parking | $\$$ | 35,000 per space |  |
| Surface, under building | $\$$ | 35,000 per space |  |
| Above grade structure | $\$$ | 60,000 per space |  |
| Below grade structure | $\$$ | - | per space |
| Off-site | $\$$ |  |  |
| Loading Berths | $\$$ | 20.00 per square foot |  |


| Landscaping | Current Code |  |  | Proposed Code |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Visual enhancement (VE) | \$ | 6.91 | per sq. ft. | \$ | 10.94 | per sq. ft. |
| Buffer 10' wide | \$ | 10.65 | per sq. ft. | \$ | 11.70 | per sq. ft. |
| Buffer 15' wide | not estimated |  | per sq. ft. |  |  |  |
| Screening | \$ | 11.90 | per sq. ft. | \$ | 11.37 | per sq. ft. |
| Average of VE and Buffer | \$ | 7.85 |  | \$ | 11.32 |  |

Note \#1: Model weights the average of VE and Buffer toward VE in Current Code because VE is currently applied more often. Note \#2: Model assumes that VE and Arterial Landscaping in Current Code have the same cost per square foot.

| Site/Visual Enhancement | $\$ 1.20$ | per sq. ft. | \$2.00 | per sq. ft. |
| :--- | :--- | :--- | :--- | :--- |

Areas of site not covered by buildings or other facilities or required landscaping shall be landscaped.

Title 21 Economic Impact Analysis Mode
Municipality of Anchorage
February 29, 2008

| Current Code - Visual Enhancement Landscaping |  |  |
| :--- | :--- | ---: |
| Landscape Item | Quantity | Installed <br> Cost |
| Deciduous trees (1 inch caliper)[2] | 5 | $\$ 1,500$ |
| Deciduous shrubs (18 inch) | 15 (3 shrubs per tree) | $\$ 825$ |
| Shredded bark mulch | 800 square feet | $\$ 3,200$ |
|  |  | $\$ 5,525$ |
|  |  | Per Square Foot |

## Notes:

[1] Arterial landscaping is being dropped as a category in the new code and replaced with visual enhancement landscaping. It's assumed that the square foot costs are similar.
[2] The new code requires the minimum caliper of deciduous trees to be 2 inches. The minimum caliper under the current code is 1 inch for deciduous trees (for meeting visual enhancement landscaping requirements.

Title 21 Economic Impact Analysis Model
Municipality of Anchorage
February 29, 2008

| Proposed Code - L2 Visual Enhancement Landscaping |  |  |
| :---: | :---: | :---: |
| Landscape Item | Quantity | Installed Cost |
| Deciduous trees (2 inch cal.)[1] | 20 tree units required. 5 deciduous trees (2" cal.) $=20$ units. | \$2,250 |
| Deciduous shrubs (18") | 12 shrub units required. 24 deciduous shrubs (18") $=12$ units | \$1,320 |
| Shredded bark mulch | 800 square feet | \$3,200 |
| Additional required landscape units (to be used for additional or larger trees and shrubs; toward existing tree retention; or hardscape items)[2] | 18 landscape units are remaining. For this estimate, assume more 18 " shrubs are used to create a low shrub hedge. 36 more 18 " shrubs $=18$ units. | \$1,980 |
|  | Total | \$8,750 [2] |
|  | Per Square Foot | \$10.94 |

## Notes:

[1] The new code requires the minimum caliper of deciduous trees to be 2 inches. The minimum caliper under the current code is 1 inch for deciduous trees (for meeting visual enhancement landscaping requirements.
[2] Total costs of the new code will vary widely depending on how the extra required landscape units are used. For example, one existing 4" caliper tree retained within the perimeter landscaping area would be worth 20 landscape units. This could replace the $\$ 1,980$ used above to purchase additional shrubs. Also note that 18 " shrubs are used in the cost comparison for the new code since this is the minimum shrub size required in the current code. However, since the new code doesn't prescribe 3 shrubs per tree which is the current policy, larger shrubs can be used which can also reduce costs. For example, $12 \times 36$ inch shrubs would also meet the mandatory 12 shrub units but would cost an estimated $\$ 1,140$. In addition, if the site had one existing 4-inch deciduous tree to be retained within the perimeter landscaping area, the total landscaping cost would be approximately $\$ 7,340$, or approximately $33 \%$ higher cost than the current code. If the site has more than one existing trees that can be applied to the perimeter tree requirement, the costs could be reduced even further.

Title 21 Economic Impact Analysis Model
Municipality of Anchorage
February 29, 2008

| Current Code - Buffer (10') Landscaping |  |  |
| :--- | :--- | ---: |
| Landscape Item | Quantity | Installed <br> Cost |
| Evergreen trees (6 ft.) | 5 | $\$ 3,000$ |
| Deciduous trees (1-1/2 inch caliper) | 5 | $\$ 2,000$ |
| Deciduous shrubs (18 inch) | 30 (3 shrubs per tree) | $\$ 1,650$ |
| Shredded bark mulch | 1,000 square feet | $\$ 4,000$ |
|  |  | $\$ 10,650$ |
|  |  | Per Square Footal |

Title 21 Economic Impact Analysis Model
Municipality of Anchorage
February 29, 2008

| Proposed Code - L3 Buffer Landscaping |  |  |
| :---: | :---: | :---: |
| Landscape Item | Quantity | Installed Cost |
| Evergreen trees (6 ft.) | 30 evergreen tree units required. 5 evergreens ( 6 ft .) = 30 units. | \$3,000 |
| Deciduous trees (2 inch caliper)[1] | 20 tree units required in addition to mandatory evergreen units. 5 deciduous trees (2 inch cal.) $=20$ units. | \$2,250 |
| Deciduous shrubs (24 inch) | 25 shrub units required. 50 shrubs (18 inch) $=$ 25 units. | \$2,750 |
| Shredded bark mulch | 1,500 square feet [2] | \$6,000 |
| Additional required landscape units (to be used for additional or larger trees and shrubs; toward existing tree retention; or hardscape items)[3] | 35 landscape units left over. In this case, a 4 ft . high ornamental screening fence is used ( 100 ft . x. . 3 units/ft) $=30$ units and 10 additional 18 " shrubs $=5$ units. | \$3,000 (fence) |
|  |  | $\begin{array}{llr} \$ 550 & (10 \\ & \text { shrubs }) \end{array}$ |
|  | Total | \$17,550 [3] |
|  | Per Square Foot | \$11.70 |

## Notes:

[1] The new code's minimum deciduous tree has a 2 inch caliper. For the buffer landscaping requirement, the current code allows a 1-1/2 inch caliper tree.
[2] The new code requires a 15-foot wide landscaping bed while the current code only requires a 10-foot wide bed.
[3] Total costs of the new code will vary widely depending on how the extra required landscape units are used. For example, two existing 4 " caliper trees retained within the perimeter landscaping area would be worth 40 landscape units. That could replace the $\$ 3,550$ used above to purchase a fence and additional shrubs. Also note that 18 " shrubs are used in the cost comparison for the new code since this is the minimum shrub size required in the current code. However, since the new code doesn't prescribe 3 shrubs per tree which is the current policy, larger shrubs can be used which can also reduce the number of shrubs and costs. For example, $25 \times 36$-inch shrubs would also meet the mandatory 25 shrub units but would cost an estimated $\$ 2,375$. For comparison purposes, assume the site has two existing 4 inch caliper deciduous trees that will be retained and $25 \times 36$-inch shrubs are used to meet the minimum shrub requirement. The cost of that option would total $\$ 14,375$, which has an approx. $23 \%$ higher cost than current code. If the site has more than two existing trees that can be applied to the perimeter tree requirement, the costs could be reduced even further.

Title 21 Economic Impact Analysis Model
Municipality of Anchorage
February 29, 2008

| Current Code - Screening Landscaping |  |  |
| :--- | :--- | ---: |
| Landscape Item | Quantity | Installed <br> Cost |
| Evergreen trees (8+ ft.)[1] | 20 evergreen trees (two off-set rows) | $\$ 18,000$ |
| Deciduous trees | None required | $\$--$ |
| Deciduous shrubs (30 inch)[2] | 60 (3 shrubs per tree) | $\$ 5,700$ |
| Shredded bark mulch | 3,000 square feet | $\$ 12,000$ |
|  |  | $\$ 35,700$ |
|  |  | Total |

## Notes:

[1] The current code calls for a minimum evergreen height of 6 ft . with the average evergreen height being 8 ft . For this example, all the evergreen trees are assumed to be 8 ft .
[2] 36 inch shrub costs are used.

| Proposed Code - L4 Screening Landscaping |  |  |
| :---: | :---: | :---: |
| Landscape Item | Quantity | Installed Cost |
| Evergreen tree (8+ ft.)[1] | 90 evergreen tree units required. 10 evergreens ( $8+\mathrm{ft}$.) $=90$ units. | \$9,000 |
| Deciduous tree (2 inch caliper)[2] | 30 other tree units are needed. 8 deciduous trees at 2 inch caliper. $=32$ units. | \$3,600 |
| Deciduous shrub (36 inch) | 60 shrub units required. $60 \times 36$-inch shrubs $=60$ units. | \$5,700 |
| Shredded bark mulch | 3,000 square feet [3] | \$12,000 |
| Additional required landscape units (to be used for additional or larger trees and shrubs; toward existing tree retention; or hardscape items)[4] | 38 landscape units left over. In this case, a 3 foot high berm is used for the extent of screening area $=15$ landscape units, five boulders from the site are added to the landscape bed = 10 units, and 52 perennials = 13 units. | \$1,500 (berm) |
|  |  | $\begin{array}{r} \$ 1,000 \\ \text { (boulders) } \end{array}$ |
|  |  | \$1,300 |
|  | Total | \$34,100 [4] |
|  | Per Square Foot | \$11.37 |

## Notes:

[1] Assumes 8 ft . evergreen trees even though the Public Hearing Draft doesn't specify this as a minimum height.
[2] The new code's minimum deciduous tree has a 2 inch caliper. The current code doesn't list a minimum caliper for deciduous trees since the screening requirements call for evergreens only.
[3] The cost estimate assumes the entire bed is covered with shredded bark, although in reality, a berm may only use mulch on the top portion of the berm under the trees and shrubs and use other seed mixes for the sloped sides of the berm.
[4] Total costs of the new code will vary widely depending on how the extra required landscape units are used. For example, screening landscaping areas will likely have many existing trees that could qualify for tree points and some large shrubs that could qualify for shrub points. Due to the potential cost savings, the landscape unit system may encourage more tree retention, particularly for screening landscaping areas which have a wide bed.

Title 21 Economic Impact Analysis Model
Municipality of Anchorage
February 29, 2008

| Approximate Cost of Landscaping Materials |  |
| :--- | :---: |
| Evergreen Tree (12'+ ht.) | $\$ 1,500$ each |
| Evergreen Tree (10-12' ht.) | $\$ 1,200$ each |
| Evergreen Tree (8-10' ht.) | $\$ 900$ each |
| Evergreen Tree (6-8' ht.) | $\$ 600$ each |
| Deciduous Tree (4" cal.) | $\$ 2,000$ each |
| Deciduous Tree (3" cal.) | $\$ 1,200$ each |
| Deciduous Tree (2.5" cal.) | $\$ 750$ each |
| Deciduous Tree (2" cal.) | $\$ 450$ each |
| Deciduous Tree (1-1/2" cal.) | $\$ 400$ each |
| Deciduous Tree (1" cal.) | $\$ 275$ each |
| Deciduous Shrub (36" ht.) | $\$ 95$ each |
| Deciduous Shrub (24" ht.) | $\$ 80$ each |
| Deciduous Shrub (18" ht.) | $\$ 55$ each |
| Evergreen Shrub (18" ht.) | $\$ 100$ each |
| Perennial \& Ground Cover (\#1 container) | $\$ 25$ each |
| Topsoil (4" depth) \& Seeding | $\$ 1,200 \mathrm{MSF}$ |
| Flower Basket Support |  |
| Earth Berm (min. 18" ht.) | $\$ 15$ lin.ft. |
| Decorative Ornamental Fence (metal) | $\$ 175$ lin.ft. |
| Screen Fence (Opaque; 6'+ ht) | $\$ 30$ lin.ft. |
| Ornamental Pavers | $\$ 12.50$ sq.ft. |
| Ornamental Concrete (exposed aggregate, etc.) | $\$ 120$ sq.yd |
| Landscape Boulders (3'x3') | $\$ 200$ each |
| Landscape Boulders (4'x4') | $\$ 300$ each |
| Seating / Decorative Walls | $\$ 200$ lin.ft. |
| Bench (min. 6' length) | $\$ 1,800$ |
| Trash Receptacle | $\$ 1,500$ |
| Bicycle Rack | $\$ 1,000$ |
| Landscape Irrigation (in-ground) | $\$ 2.50$ sq.ft. |
| Shredded bark mulch | $\$ 4$ per sq. $\mathrm{ft}$. |
| Rock mulch | $\$ 6$ per sq. ft. |

Title 21 Economic Impact Analysis Mode
Municipality of Anchorage
February 29, 2008
F. Number of parking spaces required per unit (residential or hotel)
or per 1000 square feet of floor area (commercial)

Note: Parking requirement information is provided within the individual EIA Model Tests. A table of parking requirement assumptions will be available with the addendum to the EIA.

| Minimum Setback Requirements |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Land Use |  | FRONT |  | REAR |  |
|  |  | Abutting District |
|  |  | Residential | Non-Residential |
| CURRENT CODE |  |  |  |  |  |
| B-3 | Residential |  |  |  | 0 | 10 | 10 |
| B-3 | Non-Residential |  |  |  | 0 | 15 | 0 |
| R-O | Residential |  | 0 |  | 10 |
| R-O | Non-Residential |  | 0 |  | 10 |
| R-4 |  |  | 0 |  | 10 |
| I-1 |  |  | 0 | 10 | 0 |
| I-2 |  |  | 0 | 20 | 0 |
|  |  |  |  |  |  |
| PROPOSED CODE |  |  |  |  |  |
| B-3 |  |  | 0 | 15 | 5 |
| R-O |  |  | 0 | 15 |  |
|  |  | Stories | Building |  | 10 |
|  |  | 1 to 3 | 4 or More |  |  |
| R-4 |  | 10 | 10 | 10 |  |
| R-4A |  | 10 | 10 | 10 | 5 |
| I-1 |  | 10 |  | 10 | 0 |
| I-2 |  | 10 |  | 20 | 0 |
| NMU |  | $\underline{0}$ |  | 15 | 5 |
| CMU |  | $\underline{0}$ |  | 15 | 5 |
| RMU |  | $\underline{0}$ |  | 15 | 5 |
|  | For MUs, minimum is 0 , max is 20 . Set at max with option to change to less. |  |  |  |  |

Title 21 Economic Impact Analysis Model
Municipality of Anchorage
February 29, 2008

| Minimum Setback Requirements |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| SIDES |  |  |  |  |
| Basic |  | + per 5' over 35' in bldg height | Abutting Districts |  |
|  |  | Residential | Non-Residential |
| CURRENT CODE |  |  |  |  |
| B-3 |  |  | 1 |  |  |
| B-3 |  |  | 10 | 0 |
| R-O | 5 | 1 |  |  |
| R-O |  |  | 0 | 0 |
| R-4 | 5 | 1 |  |  |
| I-1 |  |  | 5 | 0 |
| I-2 |  |  | 10 | 0 |
|  |  |  |  |  |
| PROPOSED CODE |  |  |  |  |
| B-3 |  |  | 10 | 10 |
| R-O |  |  | 10 | 5 |
|  |  |  |  |  |
|  |  |  |  |  |
| R-4 | 5 | 1 |  |  |
| R-4A | 5 | 1 | 10 | 5 |
| I-1 |  |  | 5 | 0 |
| I-2 |  |  | 10 | 0 |
| NMU |  |  | 10 | 5 |
| CMU |  |  | 10 | 5 |
| RMU |  |  | 10 | 5 |

Rear in R-6 $=50$ feet, $\mathrm{R}-8=25$ feet

Note on most of these, 0 or at least 5 , nothing in between.

Note on most of these, 0 or at least 5 , nothing in between. Note on most of these, 0 or at least 5 , nothing in between. Note on most of these, 0 or at least 5 , nothing in between.

Title 21 Economic Impact Analysis Model
Municipality of Anchorage
February 29, 2008

| Proposed Code - Perimeter Landscaping Requirements |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Zoning of Proposed Project | Abutting District |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Abutting Street |  |  |  |
|  | R-1 | R-1A | R-2A | R-2D | R-2F | R-2M | R-3 | R-4 | R-4A | PLI | PR | RO | B-1A | B-3 | NMU | CMU | RMU | I-1 | I-2 | Freeway | Arterial | Collector | Local |
| R-O | L3 | L3 | L3 | L3 | L3 | L3 | L3 | L3 | L3 | L2 |  |  | L2 |  | L2 | L2 |  | L2 | L2 | L4 | L2 | L2 | L2 |
| B-3 | L3 | L3 | L3 | L3 | L3 | L3 | L3 | L3 | L3 | L2 |  |  | L2 |  | L2 | L2 |  | L2 | L2 | L4 | L2 | L2 | L2 |
| NMU | L3 | L3 | L3 | L3 | L3 | L3 | L3 | L3 | L3 |  |  | L2 |  | L2 |  |  |  | L2 | L2 | L4 |  |  |  |
| CMU | L3 | L3 | L3 | L3 | L3 | L3 | L3 | L3 | L3 |  |  | L2 |  | L2 |  |  |  | L2 | L2 | L4 |  |  |  |
| RMU | L3 | L3 | L3 | L3 | L3 | L3 | L3 | L3 | L3 |  |  |  |  |  |  |  |  | L2 | L2 | L4 |  |  |  |
| R-4 | L2 | L2 | L2 | L2 |  |  |  |  |  |  |  | L3 | L3 | L3 | L3 | L3 | L3 | L3 | L3 | L4 | L3 | L2 | L2 |
| R-4A | L2 | L2 | L2 | L2 |  |  |  |  |  |  |  | L3 | L3 | L3 | L3 | L3 | L3 | L3 | L3 | L4 | L3 | L2 | L2 |
| I-1 | L3 | L3 | L3 | L3 | L3 | L3 | L3 | L3 | L3 |  |  | L2 | L2 | L2 | L2 | L2 | L2 |  |  | L4 | L2 | L2 | L2 |
| I-2 | L3 | L3 | L3 | L3 | L3 | L3 | L3 | L3 | L3 |  |  | L2 | L2 | L2 | L2 | L2 | L2 |  |  | L4 | L2 | L2 | L2 |


| Proposed Code - Parking Lot Perimeter Landscaping Requirements |  |  |  |
| :---: | :---: | :---: | :---: |
| Proposed Use Type | Abutting Use or Street |  |  |
|  | Single Family | Multifamily | Other |
| Multifamily | L3 | L2 | L2 |
| Nonresidential | L3 | L3 | L2 |

Title 21 Economic Impact Analysis Model
Municipality of Anchorage
February 29, 2008


| Current Code - Parking Lot Perimeter Landscaping Requirements |  |  |  |  | Except in the B-3 district, parking lot perimeter landscaping requirements for $p$-lots adjacent to nonresidential uses only apply to p-lots with 15 or more spaces. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Proposed Use Type | Abutting District |  | Abutting Street |  |  |
|  | Residential District | Nonresidential | Arteri Colle <br> al <br> ctor | Local |  |
| B-3 | 10 | 8 | 6 | 8 |  |
| Nonresidential Use in other districts besides B 3 | 10 | 8 | 8 |  |  |
| Residential Use in other districts besides B3 | 8 | 8 | 8 |  |  |

Title 21 Economic Impact Analysis Model
Municipality of Anchorage
February 29, 2008

| Required Loading Berths: Existing Title 21 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Use Type | Type of Berth | Number of Berths per Gross Floor Area of Structure |  |  |  |  |
|  |  | 0 | 1 | 2 | 3 | 4 |
| Dwelling, Multifamily or Mixeduse | B | $\begin{aligned} & \text { Less than } \\ & 25,000 \mathrm{sf} \end{aligned}$ | $\begin{gathered} \hline 25,000- \\ 150,000 ~ \mathrm{sf} \end{gathered}$ | $\begin{aligned} & 150,001- \\ & 400,000 \mathrm{sf} \end{aligned}$ | $\begin{array}{\|l\|} \hline \text { More than } \\ 400,000 \mathrm{sf} \end{array}$ | n/a |
| Hotel | B | Less than 25,000 sf gfa | $\begin{gathered} 25,000- \\ 40,000 \mathrm{sf} \\ \mathrm{gfa} \end{gathered}$ | $\begin{gathered} 40,001- \\ 100,000 \mathrm{sf} \\ \text { gfa } \end{gathered}$ | $\begin{gathered} 100,001- \\ 200,000 \mathrm{sf} \\ \mathrm{gfa} \end{gathered}$ | More than$\begin{gathered} 200,000 \mathrm{sf} \\ \mathrm{gfa} \end{gathered}$ |
| Office, business, professional and financial | B |  |  |  |  |  |
| Office, health and medical | B |  |  |  |  |  |
| Restaurant | B | $\begin{gathered} \text { Less than } \\ 7,000 \mathrm{sf} \\ \text { gfa } \end{gathered}$ | $\begin{gathered} 7,000- \\ 24,000 \mathrm{sf} \\ \text { gfa } \end{gathered}$ | $\begin{gathered} 24,001- \\ 50,000 \mathrm{sf} \\ \text { gfa } \end{gathered}$ | $\begin{gathered} \text { 50,001 - } \\ 100,000 \mathrm{sf} \\ \mathrm{gfa} \end{gathered}$ | More than$\begin{gathered} 100,000 \mathrm{sf} \\ \mathrm{gfa} \end{gathered}$ |
| Retail, grocery | B |  |  |  |  |  |
| Retail, general - general, convenience store, building materials | B |  |  |  |  |  |
| Retail, other - pharmacy, video rental, liquor store, wholesale, business service, vehicle parts stores | B |  |  |  |  |  |
| Retail, large goods - furniture, home appliance, flooring | B |  |  |  |  |  |
| Retail, large shopping mall | B |  |  |  |  |  |
| Manufacturing, small | A | $\begin{gathered} \text { Less than } \\ \text { 12,000 sf } \\ \text { gfa } \end{gathered}$ | $\begin{gathered} 12,000- \\ 36,000 \mathrm{sf} \\ \text { gfa } \end{gathered}$ | $\begin{gathered} 36,001- \\ 60,000 \mathrm{sf} \\ \text { gfa } \end{gathered}$ | $\begin{gathered} 60,001- \\ 100,000 \mathrm{sf} \\ \text { gfa } \end{gathered}$ | $\begin{gathered} \text { More than } \\ 100,000 \mathrm{sf} \\ \text { gfa } \end{gathered}$ |
| Manufacturing, large | A |  |  |  |  |  |
| Warehouse, small | A |  |  |  |  |  |
| Warehouse, large | A |  |  |  |  |  |

Title 21 Economic Impact Analysis Model
Municipality of Anchorage
February 29, 2008

| Required Loading Berths: Proposed Title 21 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Use Type | Type of Berth | Number of Berths per Gross Floor Area of Structure |  |  |  |  |
|  |  | 0 | 1 | 2 | 3 | 4 |
| Dwelling, Multifamily or Mixeduse | B | $0-49$ <br> dwelling | $50-149$ dwelling | $\begin{gathered} 150-249 \\ \text { dwelling } \end{gathered}$ | $\begin{gathered} 250-349 \\ \text { dwelling } \end{gathered}$ | 350 or more |
| Hotel | B | Less than 25,000 sf gfa | $\begin{gathered} 25,000- \\ 40,000 \text { sf } \\ \text { gfa } \end{gathered}$ | $\begin{gathered} \text { 40,001-} \\ 100,000 \mathrm{sf} \\ \text { gfa } \end{gathered}$ | $\begin{gathered} 100,001- \\ 200,000 \mathrm{sf} \\ \mathrm{gfa} \end{gathered}$ | More than $200,000 \mathrm{sf}$gfa |
| Office, business, professional and financial | B |  |  |  |  |  |
| Office, health and medical | B |  |  |  |  |  |
| Restaurant | B | Less than 12,000 sf gfa | $\begin{gathered} 12,001- \\ 24,000 \mathrm{sf} \\ \text { gfa } \end{gathered}$ | $\begin{gathered} 24,001- \\ 50,000 \mathrm{sf} \\ \text { gfa } \end{gathered}$ | $\begin{gathered} \text { 50,001 - } \\ 100,000 \mathrm{sf} \\ \text { gfa } \end{gathered}$ | More than 100,000 sf gfa |
| Retail, grocery | B |  |  |  |  |  |
| Retail, general - general, convenience store, building materials | B |  |  |  |  |  |
| Retail, other - pharmacy, video rental, liquor store, wholesale, business service, vehicle parts stores | B |  |  |  |  |  |
| Retail, large goods - furniture, home appliance, flooring | B |  |  |  |  |  |
| Retail, large shopping mall | B |  |  |  |  |  |
| Manufacturing, small | A | Less than 12,000 sf gfa | $\begin{gathered} 12,001- \\ 36,000 \mathrm{sf} \\ \mathrm{gfa} \end{gathered}$ | $\begin{gathered} 36,001- \\ 60,000 \mathrm{sf} \\ \text { gfa } \end{gathered}$ | $\begin{gathered} \text { 60,001 - } \\ 100,000 \mathrm{sf} \\ \text { gfa } \end{gathered}$ | More than 100,000 sf gfa |
| Manufacturing, large | A |  |  |  |  |  |
| Warehouse, small | A |  |  |  |  |  |
| Warehouse, large | A |  |  |  |  |  |

Title 21 Economic Impact Analysis Model
Municipality of Anchorage
February 29, 2008
J. Private Open Space Requirement Assumptions

| Zoning | Existing Title 21 <br> "usable yard" <br> requirement per <br> dwelling unit (sf) | Proposed Title 21 <br> "private open space" <br> requirement per <br> dwelling unit (sf) | Proposed Title 21 "private open <br> space" requirement for non- <br> residential development as a <br> percentage of the gross floor area of <br> the non-residential portion of the <br> development |
| :---: | :---: | :---: | :---: |
| R-4 | 100 | 100 | $5 \%$ |
| R-4A |  | 100 | $5 \%$ |
| B-3 | 100 | 60 | $5 \%$ |
| RO | 100 | 60 | $5 \%$ |
| NMU |  | 60 | $5 \%$ |
| CMU |  | 60 | $5 \%$ |
| RMU |  | 60 | $5 \%$ |

Note: The cost of private open space per square foot is assumed to be the same as the cost of
required landscaping per square foot.

| Use Type | Existing Title 21 Snow Storage <br> Area Requirement | Proposed Title 21 Snow Storage <br> Area Requirement | Comments |
| :--- | :--- | :--- | :--- |
| Multifamily Dwelling | No snow storage area required | An area equal to 15\% of the size of <br> the required surface parking lot <br> (ie., 400sf * number of surface <br> parking spaces), minus 25\% of the <br> required private open space area. | The code says that up to 50\% of the required open <br> spare area may be used for winter snow storage, so the <br> model splits the difference and assumes about 25\% of the <br> required open space area could be used toward the snow <br> storage rement. |
| Mixed-use Dwelling <br> and all other uses | No snow storage area required | No snow storage area required |  |

Title 21 Economic Impact Analysis Model
Municipality of Anchorage
February 29, 2008

| Pedestrian <br> Facility Type | Minimum Width <br> Assumption (ft) | Total Length <br> (walkway length <br> expressed as a <br> percent of Site area) | Total Square Feet | Comments |
| :--- | :--- | :--- | :--- | :--- |
| Walkway | 5 | 0.015 | Model assumes that on average required walkways will occupy an <br> area equivalent to 1.5\% of the total site area. Actual walkway <br> requirements will vary substantially from site to site based on site <br> specific factors. |  |
| Primary Pedestrian <br> Walkway | 12 |  | Model assumes that a primary pedestrian walkway wil have a width <br> of 12 feet. This includes the minimum clear width of 8 feet for the <br> walkway itself plus (a) additional width along buildings for a <br> sidewalk storefront zone, transition pedestrian spaces and/or <br> building foundation landscaping; and (b) buffer space of at least 4 <br> feet in width along streets and driveways to accommodate street <br> trees, landscaping beds, light fixtures, utilities, etc. |  |
| Off-street Transit <br> Stop (Arterials) | 15 | 60 | 900 | Model assumes that bus stops along arterial streets will be required <br> to have bus pull-out lanes at the bus stop, which requires that more <br> of the space needed for the bus stop staging area must be <br> acquired from outside the right-of-way. |
| On-street Transit <br> Stop (Collector or <br> Local Streets) | 10 | 30 | 300 |  |

Title 21 Economic Impact Analysis Model
Municipality of Anchorage
February 29, 2008

## M. Exterior Lighting - New Construction

Source: Clanton and Associates, with revisions made by the Planning Department, Municipality of Anchorage, with input from IESNA - Alaska Chapter, September 4, 2007.

| MLO REQUIREMENTS | TYPICAL DESIGN 400 WATT SEMI-CUTOFF COBRAHEAD | MLO COMPLIANT 250 WATT ONE FOR ONE REPLACEMENT |
| :---: | :---: | :---: |
| Lighting Zone | LZ3 | LZ 3 |
| IESNA Criteria |  |  |
| Minimum Horizontal Illuminance (HFC) | 0.5 | 0.5 |
| Minimum Vertical Illuminance (VFC) | 0.25 | 0.25 |
| LIGHTING STATISTICS |  |  |
|  |  |  |
| Total Lumens | 1944000 | 887550 |
| Allowed Lumens | 2060189 | 2060189 |
| Average Horizontal Illuminance (HFC) | 5.2 | 2.7 |
| Maximum Horizontal Illuminance (HFC) | 14.4 | 7.3 |
| Minimum Horizontal Illuminance (HFC) | 1.0 | 0.5 |
| Minimum Vertical Illuminance (VFC) | 0.7 | 0.3 |
| Uniformity (Avg:Min) | 5:1 | 4:1 |
| Uniformity (Max:Min) | 14:1 | 12:1 |

Title 21 Economic Impact Analysis Model
Municipality of Anchorage
February 29, 2008
M. Exterior Lighting - New Construction


Title 21 Economic Impact Analysis Model
Municipality of Anchorage
February 29, 2008

