

## Alignment Alternatives Evaluation Matrix: SH 99-Grand Parkway-Segment B

| Alignments<br>IH 45 to SH 288                  | Human and Natural Environmental Parameters |                       |   |                                 |                       |                                       |                           |
|--|--|-----------------------|---|---------------------------------|-----------------------|---------------------------------------|---------------------------|
|  | Wetlands<br>Acres (No. of Potential Sites) | Flood Plains<br>Acres | Community Bisector ?<br>Yes/No (No. Affected) | Public/Private<br>Displacements | Right-of-Way<br>Acres | Bridges/Drainage<br>No. of Structures | Alignment Length<br>Miles |
| X (Existing Roadways)                          | 12 (36)                                    | 215                   | Yes (4)                                       | 244                             | 454                   | 20                                    | 23.57                     |
| S 1  | 46 (50)                                    | 150                   | Yes (3)                                       | 29                              | 1,364                 | 30                                    | 28.12                     |
| S 2 (1 E to SH 35 To S 1)                      | 36 (41)                                    | 237                   | Yes (2)                                       | 44                              | 1,059                 | 20                                    | 26.31                     |
| N 1  | 24 (42)                                    | 183                   | Yes (3)                                       | 37                              | 1,012                 | 20                                    | 20.88                     |
| N 1 to N 2                                     | 33 (45)                                    | 396                   | Yes (3)                                       | 31                              | 1,058                 | 21                                    | 21.84                     |
| 3 E - 2 W                                      | 25 (52)                                    | 389                   | Yes (2)                                       | 22                              | 1,071                 | 22                                    | 22.1                      |
| 2 E - N 1 - N 2                                | 32 (46)                                    | 396                   | Yes (3)                                       | 30                              | 1,034                 | 22                                    | 21.32                     |
| 2 E - 3 E - 2 W                                | 25 (44)                                    | 481                   | Yes (3)                                       | 30                              | 1,093                 | 23                                    | 22.58                     |
| 1 E - SH 35 - 3 W                              | 44 (48)                                    | 419                   | Yes (2)                                       | 24                              | 1,017                 | 28                                    | 23.84                     |
| 2 E - SH 35 - 3 W                              | 32 (44)                                    | 335                   | Yes (2)                                       | 23                              | 1,012                 | 28                                    | 24.65                     |
| 2 E - SH 35 - 3 W - 4 W                        | 38 (43)                                    | 198                   | Yes (3)                                       | 29                              | 1,067                 | 28                                    | 25.78                     |
| 1 E - SH 35 - 4 W                              | 49 (48)                                    | 313                   | Yes (4)                                       | 29                              | 1,019                 | 28                                    | 24.01                     |
| <b>Alignment Components<br/>IH 45 to SH 35</b> |  |                       |   |                                 |                       |                                       |                           |
| 1 E  | 29 (24)                                    | 112                   | Yes (1)                                       | 10                              | 429                   | 10                                    | 8.84                      |
| 2 E  | 17 (22)                                    | 106                   | Yes (1)                                       | 8                               | 446                   | 10                                    | 9.15                      |
| 3 E (to 2 W)                                   | 17 (12)                                    | 34                    | No  | 1                               | 420                   | 8                                     | 8.67                      |
| 3 E (to 1 W)                                   | 17 (15)                                    | 62                    | No  | 1                               | 422                   | 7                                     | 8.71                      |
| <b>SH 35 to SH 288</b>                         |  |                       |   |                                 |                       |                                       |                           |
| 1 W (from 3 E)                                 | 13 (29)                                    | 255                   | Yes (3)                                       | 35                              | 505                   | 13                                    | 10.41                     |
| 2 W (from 3 E)                                 | 8 (30)                                     | 355                   | Yes (2)                                       | 21                              | 651                   | 14                                    | 13.43                     |
| 3 W  | 14 (21)                                    | 307                   | Yes (1)                                       | 15                              | 588                   | 12                                    | 12.13                     |
| 4 W  | 14 (22)                                    | 275                   | Yes (3)                                       | 20                              | 596                   | 12                                    | 12.30                     |