

# Base Condition

## Existing I-70 with EB Peak Period Shoulder Lane

Base Condition includes the existing highway infrastructure including the planned improvement of the EB peak period shoulder lane from Empire to Floyd Hill. The recently completed widening of the EB Twin Tunnel is part of the peak period shoulder lane project.

### Roadway Information

|                                       |   |
|---------------------------------------|---|
| Extent of Roadway Improvements        | Empire to Floyd Hill                                      |
| General Purpose (GP) Lane Information | Additional capacity by restriping existing pavement       |
| Direction of Improvements             | EB Only Direction   |
| Design Speed                          | Match Existing  |
| Trucks, Private Buses, BRT            | Allowed in Peak Period Shoulder Lane (Always in GP Lanes) |

### Tolling

|                       |   |
|-----------------------|---|
| Capacity Improvements | Dynamic priced toll for EB Peak Period Shoulder Lane            |
| Tunnels               | Dynamic priced toll as part of the EB Peak Period Shoulder Lane |
| Technology            | Transponder and license plate recognition                       |

### Schedule

|                       |                                   |
|-----------------------|-----------------------------------|
| Construction Start    | 2014 (Assumes NEPA Cat-Ex)        |
| Construction Duration | 1 year                            |
| First Year Operation  | 2014 - WB Tunnel / 2015 - EB PPSL |
| Financial Period      | 50 years                          |

### Transit Information

|                        |   |
|------------------------|---|
| Termini                | Glenwood Springs to Denver (CDOT Bus)                                   |
| Special Infrastructure | N/A   |
| Schedule               | Fall 2014   |
| Stations               | 6 CDOT Bus Stations - Glenwood Springs, Eagle, Vail, Frisco, Denver (2) |

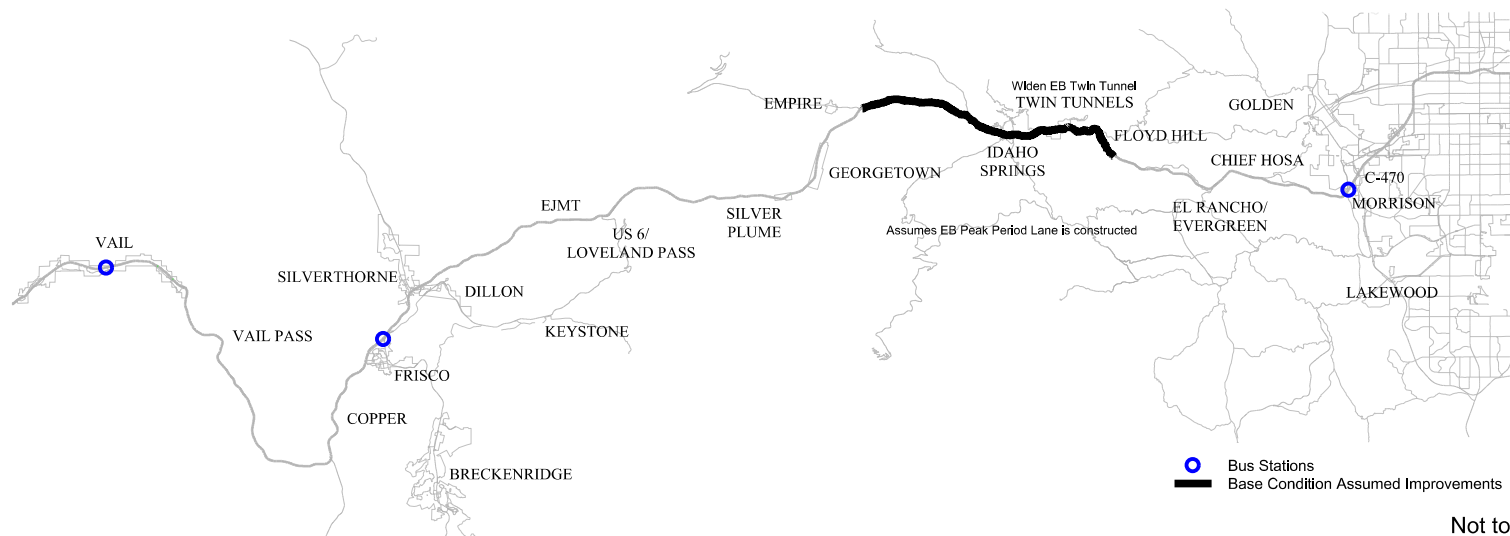
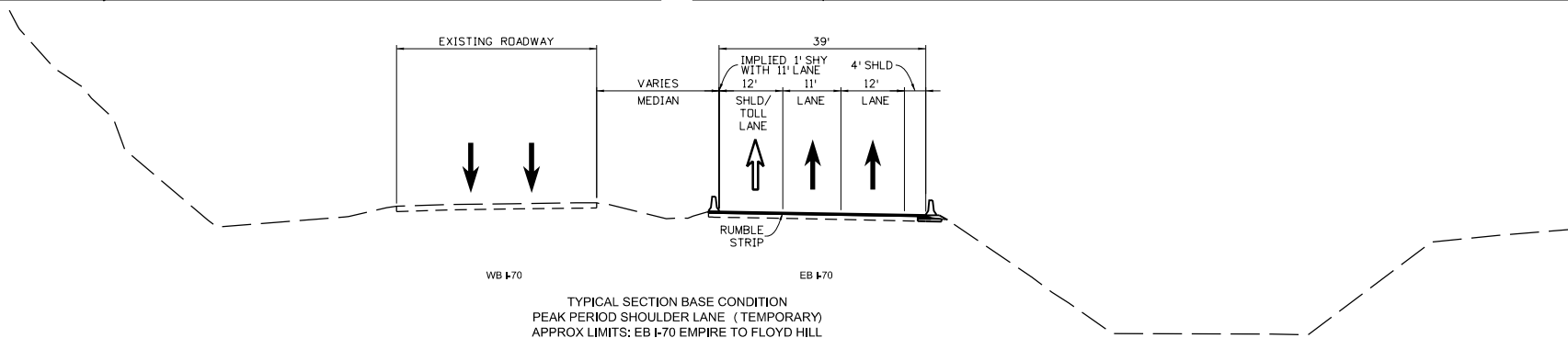
### Type

|          |             |
|----------|-------------|
| CDOT Bus | TBD by CDOT |
| BRT      | N/A         |
| AGS      | N/A         |

### Special Structures

|                    |                                  |
|--------------------|----------------------------------|
| Special Structures | Existing EB Twin Tunnel Widening |
|--------------------|----------------------------------|

GP = General Purpose Lane EJMT = Eisenhower Johnson Memorial Tunnels



● Bus Stations  
█ Base Condition Assumed Improvements

Not to Scale  
Print Date: 1/16/2014

# Alt01\_Opt01

## 2 Tolled Reversible Managed Lanes

Reversible managed lanes designed at 65 mph. The reversible managed lanes are on a separate viaduct structure from East Idaho Springs to Floyd Hill in order to maintain 65 mph design speed. General purpose (GP) lanes designed at 55 mph except from East Idaho Springs to Floyd Hill, where existing design speeds & lanes will remain.

### Roadway Information

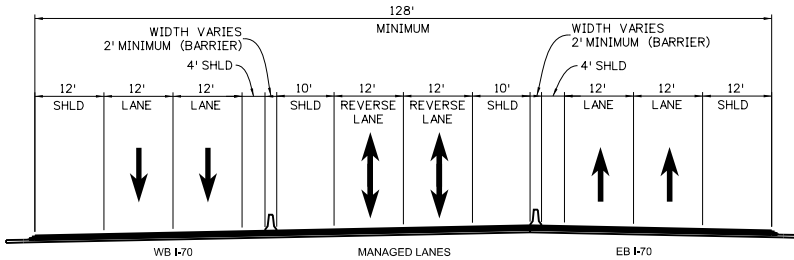
|                                       |   |
|---------------------------------------|---|
| Extent of Roadway Improvements        | Silverthorne to C-470   |
| General Purpose (GP) Lane Information | Align managed lanes with GP lanes except from E Idaho Springs to Floyd Hill |
| Direction of Improvements             | Both directions (EB and WB)   |
| Design Speed                          | 65 mph Managed Lanes, 55 mph GP lanes                                       |
| Trucks, Private Buses, BRT            | Allowed in Managed Lanes (Always in GP Lanes)                               |
| <b>Tolling</b>                        |   |
| Capacity Improvements                 | Dynamic priced toll for Reversible Managed Lanes                            |
| Tunnels                               | Dynamic priced toll for EJMT 3rd Bore and Twin Tunnels 3rd bore             |
| Technology                            | Transponder and license plate recognition                                   |
| <b>Schedule</b>                       |   |
| Construction Start                    | 2019 (Assumes 4 years NEPA & Procurement)                                   |
| Construction Duration                 | 4 years   |
| First Year Operation                  | 2023  |
| Financial Period                      | 50 years  |

### Transit Information

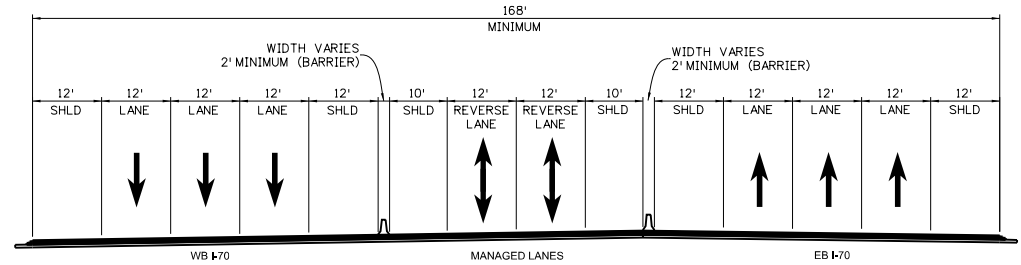
|                        |  |
|------------------------|--|
| Termini                | Vail to Denver                                   |
| Special Infrastructure | Stations   |
| Schedule               | 2019 - Limited Startup / 2023 - Full BRT Service |
| Stations               | 12 Total   |
| <b>Type</b>            |  |
| CDOT Bus               | N/A  |
| BRT                    | Transit option for full 50 year concession       |
| AGS                    | N/A  |

### Special Structures

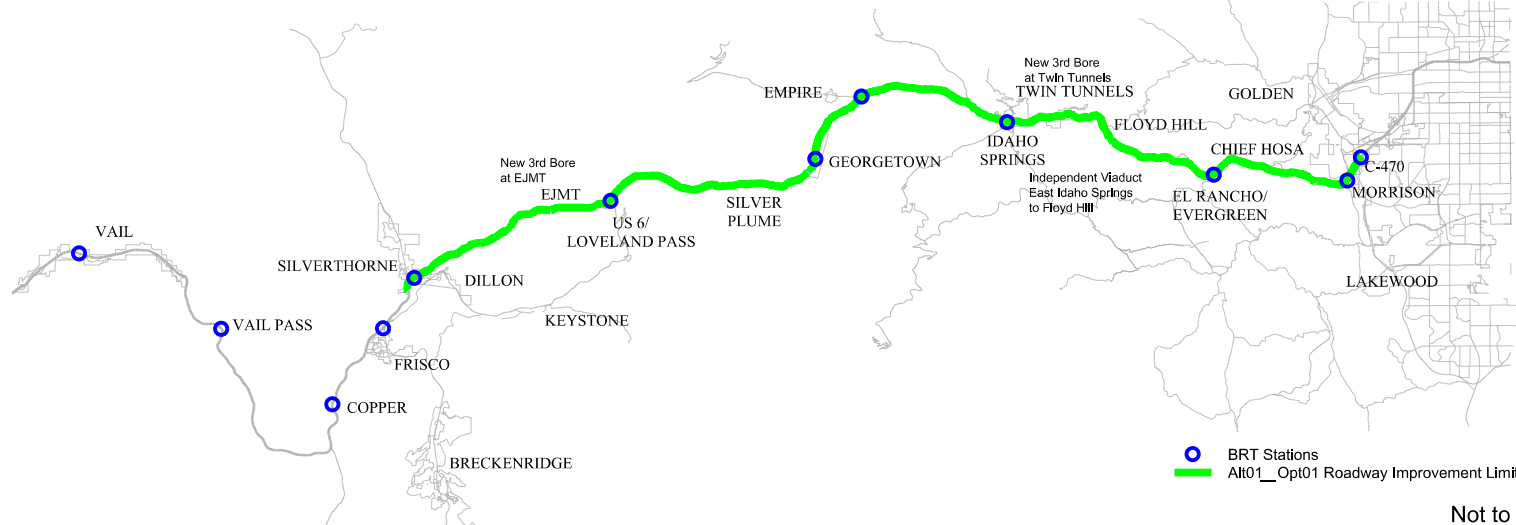
|  |  |
|--|--|
| Special Structures   | EJMT and Twin Tunnel 3rd Bores                                 |
|  | Managed Lanes on Viaduct from East Idaho Springs to Floyd Hill |
| GP = General Purpose Lane EJMT = Eisenhower Johnson Memorial Tunnels |  |



TYPICAL SECTION ALT01  
2 TOLLED REVERSIBLE MANAGED LANES  
EXISTING 2 GENERAL PURPOSE LANES EB & WB I-70  
APPROX LIMITS: EJMT TO FLOYD HILL



TYPICAL SECTION ALT01  
2 TOLLED REVERSIBLE MANAGED LANES  
EXISTING 3 GENERAL PURPOSE LANES EB & WB I-70  
APPROX LIMITS: SILVERTHORNE TO EJMT, FLOYD HILL TO C-470



Not to Scale  
Print Date: 1/16/2014

# Alt01\_Opt02

## 2 Tolled Reversible Managed Lanes

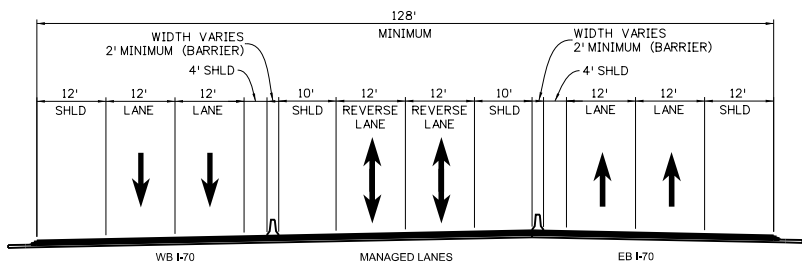
Reversible managed lanes and I-70 designed at 65 mph. This option matches Alt01\_Opt01 except from East Idaho Springs to Floyd Hill, where the reversible managed lanes and I-70 will be reconstructed to meet a 65 mph design speed.

### Roadway Information

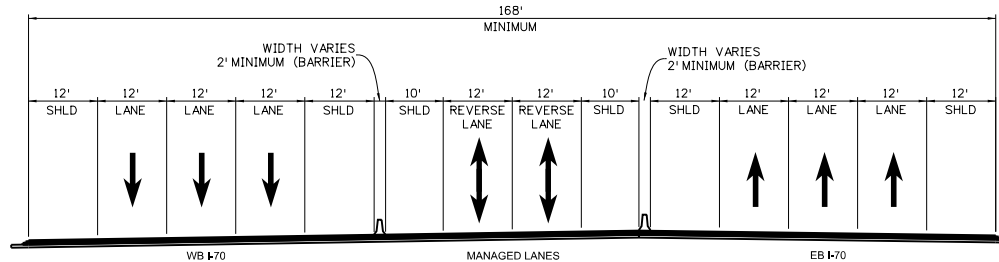
|                                       |   |
|---------------------------------------|---|
| Extent of Roadway Improvements        | Silverthorne to C-470   |
| General Purpose (GP) Lane Information | Align managed lanes with GP lanes                               |
| Direction of Improvements             | Both directions (EB and WB)                                     |
| Design Speed                          | 65 mph - Managed Lanes & GP Lanes                               |
| Trucks, Private Buses, BRT            | Allowed in Managed Lanes (Always in GP Lanes)                   |
| <b>Tolling</b>                        |   |
| Capacity Improvements                 | Dynamic priced toll for Reversible Managed Lanes                |
| Tunnels                               | Dynamic priced toll for EJMT 3rd Bore and Twin Tunnels 3rd bore |
| Technology                            | Transponder and license plate recognition                       |
| <b>Schedule</b>                       |   |
| Construction Start                    | 2019 (Assumes 4 years NEPA & Procurement)                       |
| Construction Duration                 | 4 years   |
| First Year Operation                  | 2023  |
| Financial Period                      | 50 years  |

### Transit Information

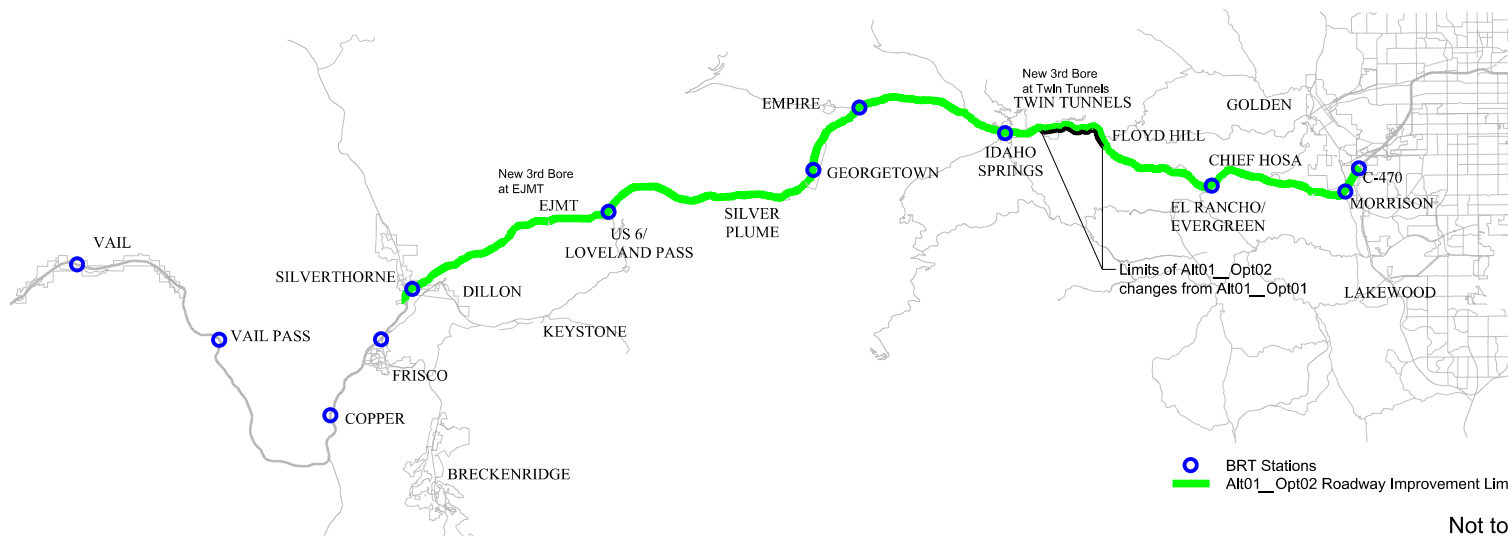
|  |  |
|--|--|
| Termini  | Vail to Denver                                   |
| Special Infrastructure   | Stations   |
| Schedule   | 2019 - Limited Startup / 2023 - Full BRT Service |
| Stations   | 12 Total   |
| <b>Type</b>  |  |
| CDOT Bus   | N/A  |
| BRT  | Transit option for full 50 year concession       |
| AGS  | N/A  |
| <b>Special Structures</b>  |  |
| Special Structures   | EJMT and Twin Tunnel 3rd Bores                   |
| GP = General Purpose Lane EJMT = Eisenhower Johnson Memorial Tunnels |  |



TYPICAL SECTION ALT01  
2 TOLLED REVERSIBLE MANAGED LANES  
EXISTING 2 GENERAL PURPOSE LANES EB & WB I-70  
APPROX LIMITS: EJMT TO FLOYD HILL



TYPICAL SECTION ALT01  
2 TOLLED REVERSIBLE MANAGED LANES  
EXISTING 3 GENERAL PURPOSE LANES EB & WB I-70  
APPROX LIMITS: SILVERTHORNE TO EJMT, FLOYD HILL TO C-470



○ BRT Stations  
— Alt01\_Opt02 Roadway Improvement Limits

Not to Scale  
Print Date: 1/16/2014

# Alt02\_Opt01

## 3 Tolled Reversible Managed Lanes

Reversible managed lanes designed at 65 mph. The reversible managed lanes are on a separate viaduct structure from East Idaho Springs to Floyd Hill in order to maintain 65 mph design speed. General purpose (GP) lanes designed at 55 mph except from East Idaho Springs to Floyd Hill, where existing design speeds & lanes will remain.

### Roadway Information

|                                       |   |
|---------------------------------------|---|
| Extent of Roadway Improvements        | Silverthorne to C-470   |
| General Purpose (GP) Lane Information | Align managed lanes with GP lanes except from E Idaho Springs to Floyd Hill |
| Direction of Improvements             | Both directions (EB and WB)   |
| Design Speed                          | 65 mph Managed Lanes, 55 mph GP lanes                                       |
| Trucks, Private Buses, BRT            | Allowed in Managed Lanes (Always in GP Lanes)                               |

### Tolling

|                       |   |
|-----------------------|---|
| Capacity Improvements | Dynamic priced toll for Reversible Managed Lanes                |
| Tunnels               | Dynamic priced toll for EJMT 3rd Bore and Twin Tunnels 3rd bore |
| Technology            | Transponder and license plate recognition                       |

### Schedule

|                       |   |
|-----------------------|---|
| Construction Start    | 2019 (Assumes 4 years NEPA & Procurement) |
| Construction Duration | 4 years                                   |
| First Year Operation  | 2023                                      |
| Financial Period      | 50 years                                  |

### Transit Information

|                        |  |
|------------------------|--|
| Termini                | Vail to Denver                                   |
| Special Infrastructure | Stations   |
| Schedule               | 2019 - Limited Startup / 2023 - Full BRT Service |
| Stations               | 12 Total   |

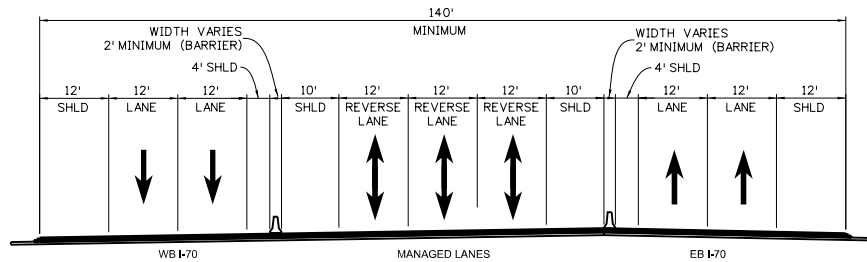
### Type

|          |  |
|----------|--|
| CDOT Bus | N/A  |
| BRT      | Transit option for full 50 year concession |
| AGS      | N/A  |

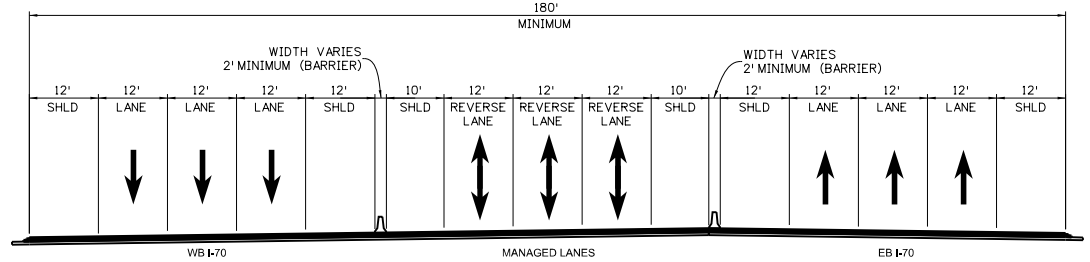
### Special Structures

|                    |  |
|--------------------|--|
| Special Structures | EJMT and Twin Tunnel 3rd Bores                                 |
|                    | Managed Lanes on Viaduct from East Idaho Springs to Floyd Hill |

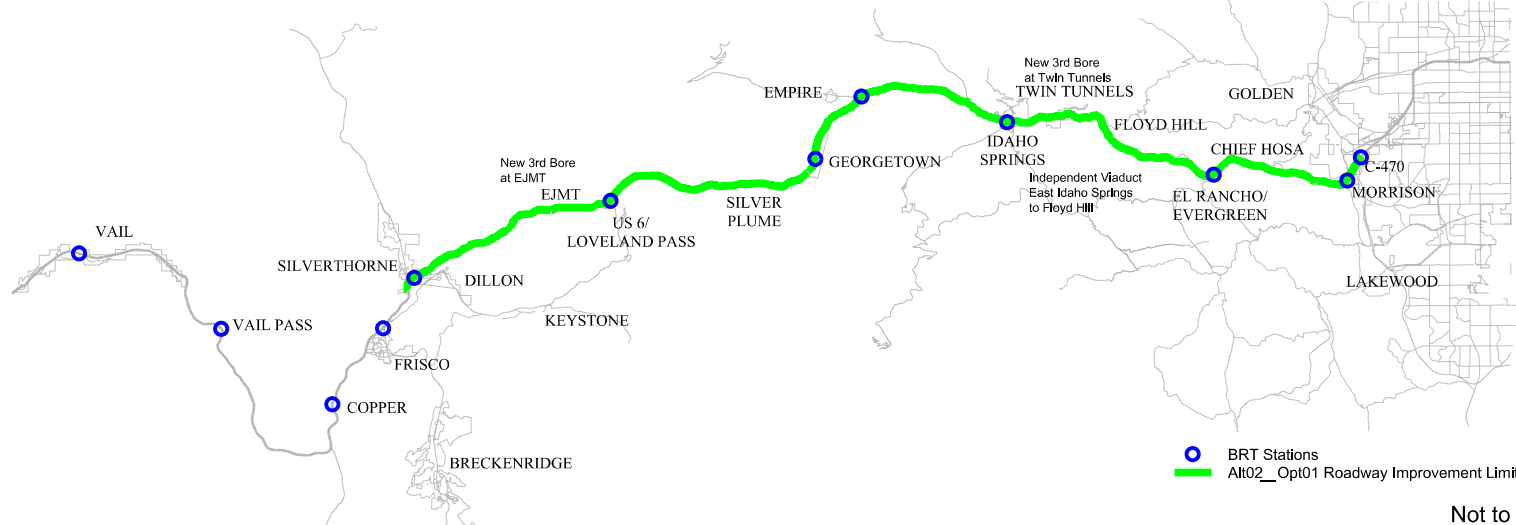
GP = General Purpose Lane EJMT = Eisenhower Johnson Memorial Tunnels



TYPICAL SECTION ALT02  
3 TOLLED REVERSIBLE MANAGED LANES  
EXISTING 2 GENERAL PURPOSE LANES EB & WB I-70  
APPROX LIMITS: EJMT TO FLOYD HILL



TYPICAL SECTION ALT02  
3 TOLLED REVERSIBLE MANAGED LANES  
EXISTING 3 GENERAL PURPOSE LANES EB & WB I-70  
APPROX LIMITS: SILVERTHORNE TO EJMT, FLOYD HILL TO C-470



Not to Scale  
Print Date: 1/16/2014

# Alt02\_Opt02

## 3 Tolled Reversible Managed Lanes

Reversible managed lanes and I-70 designed at 65 mph. This option matches Alt02\_Opt01 except from East Idaho Springs to Floyd Hill, where the reversible managed lanes and I-70 GP lanes will be reconstructed to meet a 65 mph design speed.

### Roadway Information

|                                       |   |
|---------------------------------------|---|
| Extent of Roadway Improvements        | Silverthorne to C-470                         |
| General Purpose (GP) Lane Information | Align managed lanes with GP lanes             |
| Direction of Improvements             | Both directions (EB and WB)                   |
| Design Speed                          | 65 mph - Managed Lanes & GP Lanes             |
| Trucks, Private Buses, BRT            | Allowed in Managed Lanes (Always in GP Lanes) |

### Tolling

|                       |   |
|-----------------------|---|
| Capacity Improvements | Dynamic priced toll for Reversible Managed Lanes                |
| Tunnels               | Dynamic priced toll for EJMT 3rd Bore and Twin Tunnels 3rd bore |
| Technology            | Transponder and license plate recognition                       |

### Schedule

|                       |   |
|-----------------------|---|
| Construction Start    | 2019 (Assumes 4 years NEPA & Procurement) |
| Construction Duration | 4 years                                   |
| First Year Operation  | 2023                                      |
| Financial Period      | 50 years                                  |

### Transit Information

|                        |  |
|------------------------|--|
| Termini                | Vail to Denver                                   |
| Special Infrastructure | Stations   |
| Schedule               | 2019 - Limited Startup / 2023 - Full BRT Service |
| Stations               | 12 Total   |

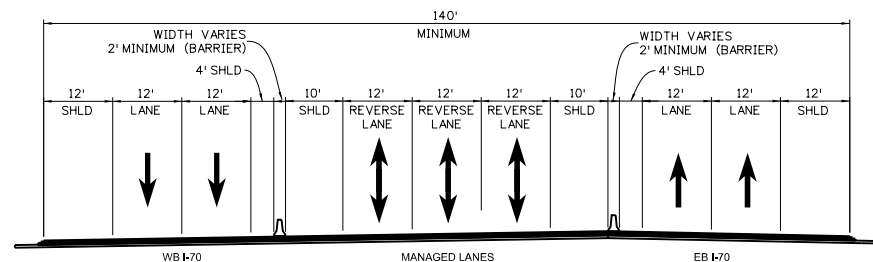
### Type

|          |  |
|----------|--|
| CDOT Bus | N/A  |
| BRT      | Transit option for full 50 year concession |
| AGS      | N/A  |

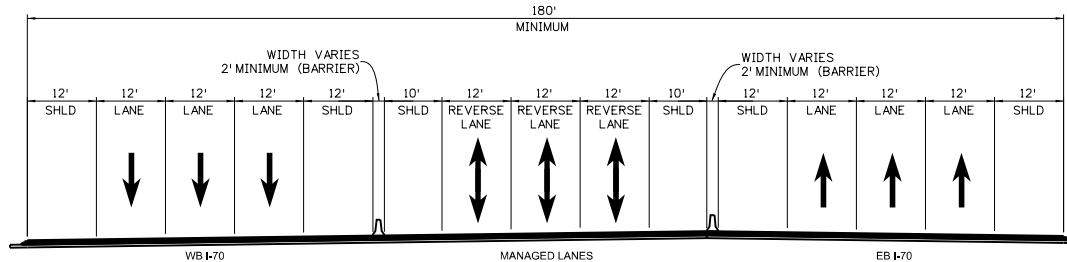
### Special Structures

|                    |                                |
|--------------------|--------------------------------|
| Special Structures | EJMT and Twin Tunnel 3rd Bores |
|--------------------|--------------------------------|

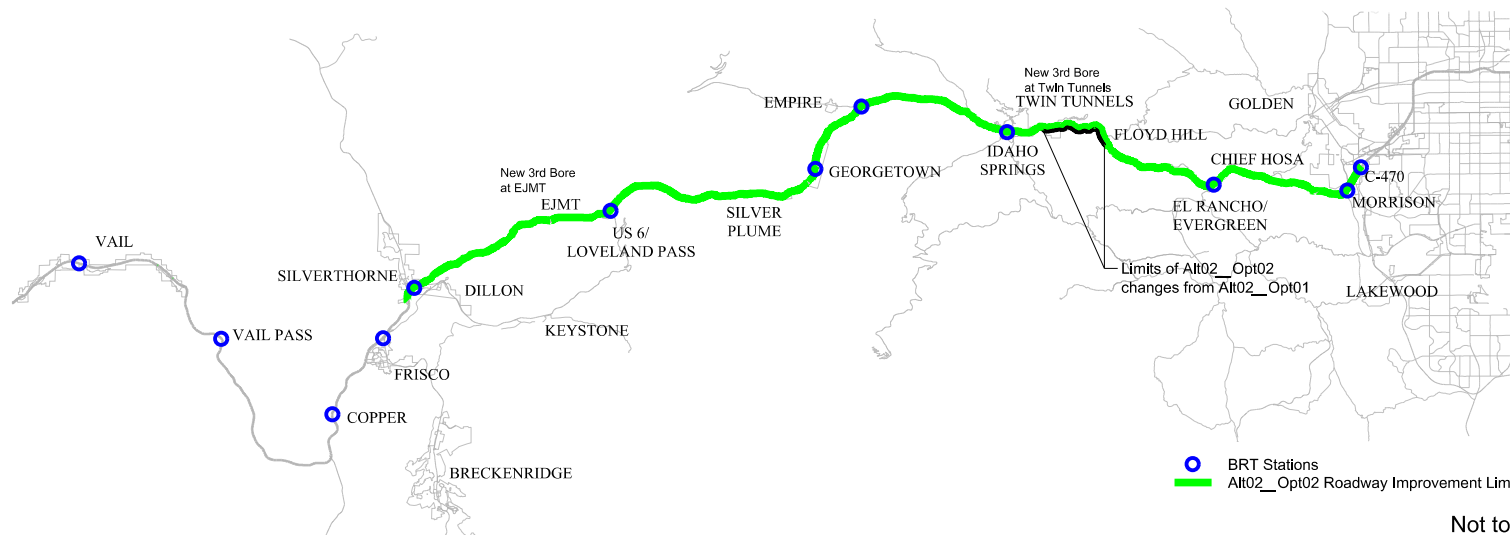
GP = General Purpose Lane EJMT = Eisenhower Johnson Memorial Tunnels



TYPICAL SECTION ALT02  
3 TOLLED REVERSIBLE MANAGED LANES  
EXISTING 2 GENERAL PURPOSE LANES EB & WB I-70  
APPROX LIMITS: EJMT TO FLOYD HILL



TYPICAL SECTION ALT02  
3 TOLLED REVERSIBLE MANAGED LANES  
EXISTING 3 GENERAL PURPOSE LANES EB & WB I-70  
APPROX LIMITS: SILVERTHORNE TO EJMT, FLOYD HILL TO C-470



● BRT Stations  
— Alt02\_Opt02 Roadway Improvement Limits

Not to Scale  
Print Date: 1/16/2014

# Alt02\_Opt03

## 3 Tolled Reversible Managed Lanes

Reversible managed lanes designed at 65 mph. The reversible managed lanes are on a separate viaduct structure from West Idaho Springs to Floyd Hill to minimize impacts. General purpose (GP) lanes designed at 65 mph except from West Idaho Springs to Floyd Hill, where existing design speeds & lanes will remain. This option is similar to Alt02\_Opt01, except viaduct extends to West Idaho Springs.

### Roadway Information

|                                       |   |
|---------------------------------------|---|
| Extent of Roadway Improvements        | Silverthorne to C-470   |
| General Purpose (GP) Lane Information | Align managed lanes with GP lanes except from W Idaho Springs to Floyd Hill |
| Direction of Improvements             | Both directions (EB and WB)   |
| Design Speed                          | 65 mph Managed Lanes, 55 mph GP lanes                                       |
| Trucks, Private Buses, BRT            | Allowed in Managed Lanes (Always in GP Lanes)                               |
| <b>Tolling</b>                        |   |
| Capacity Improvements                 | Dynamic priced toll for Reversible Managed Lanes                            |
| Tunnels                               | Dynamic priced toll for EJMT 3rd Bore and Twin Tunnels 3rd bore             |
| Technology                            | Transponder and license plate recognition                                   |
| <b>Schedule</b>                       |   |
| Construction Start                    | 2019 (Assumes 4 years NEPA & Procurement)                                   |
| Construction Duration                 | 4 years   |
| First Year Operation                  | 2023  |
| Financial Period                      | 50 years  |

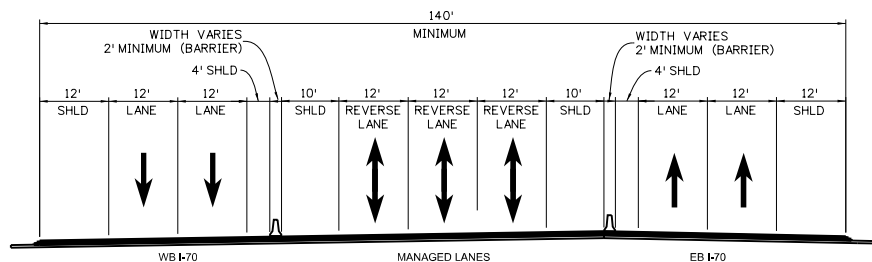
### Transit Information

|                        |  |
|------------------------|--|
| Termini                | Vail to Denver                                   |
| Special Infrastructure | Stations   |
| Schedule               | 2019 - Limited Startup / 2023 - Full BRT Service |
| Stations               | 12 Total   |
| <b>Type</b>            |  |
| CDOT Bus               | N/A  |
| BRT                    | Transit option for full 50 year concession       |
| AGS                    | N/A  |

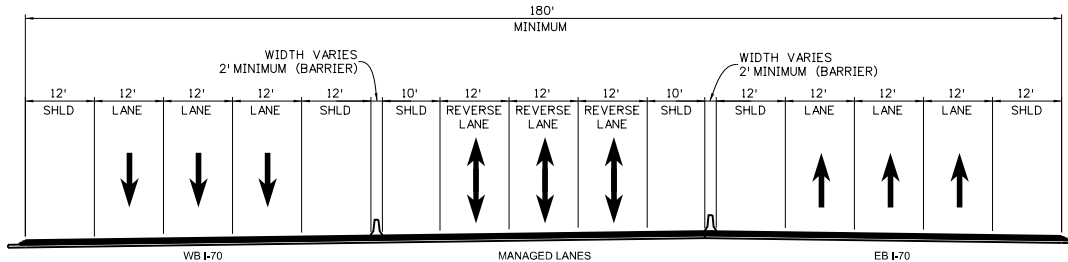
### Special Structures

|                    |  |
|--------------------|--|
| Special Structures | EJMT and Twin Tunnel 3rd Bores                                 |
|                    | Managed Lanes on Viaduct from West Idaho Springs to Floyd Hill |

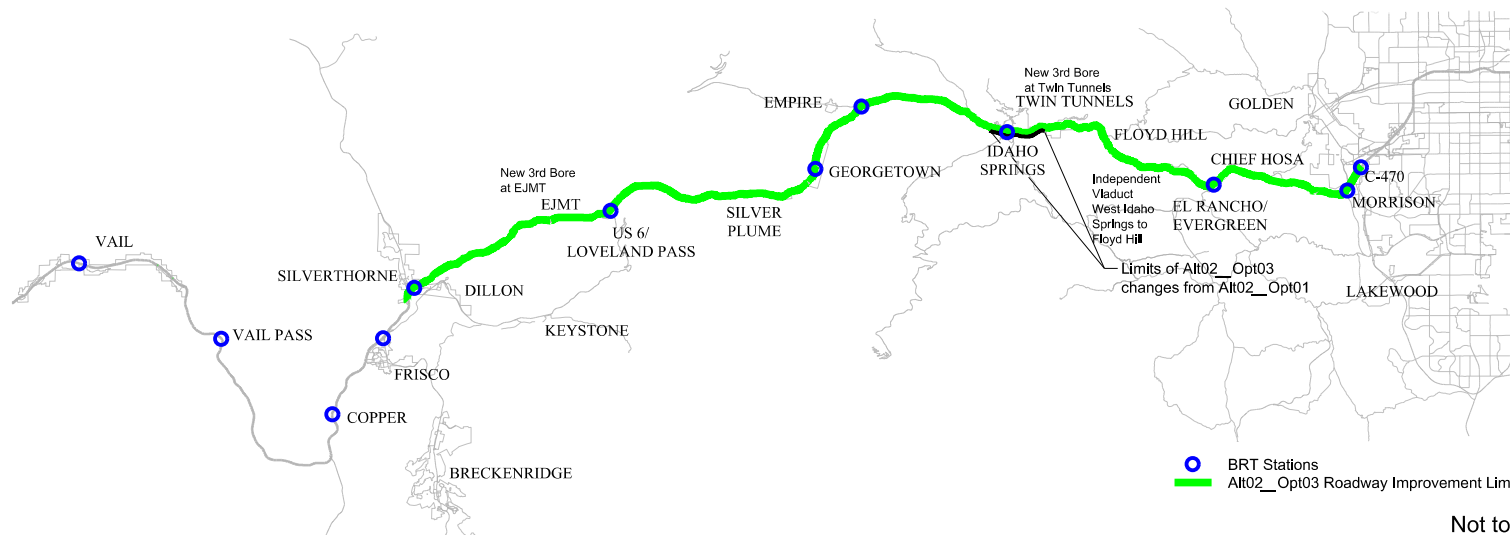
GP = General Purpose Lane EJMT = Eisenhower Johnson Memorial Tunnels



TYPICAL SECTION ALT02  
3 TOLLED REVERSIBLE MANAGED LANES  
EXISTING 2 GENERAL PURPOSE LANES EB & WB I-70  
APPROX LIMITS: EJMT TO FLOYD HILL



TYPICAL SECTION ALT02  
3 TOLLED REVERSIBLE MANAGED LANES  
EXISTING 3 GENERAL PURPOSE LANES EB & WB I-70  
APPROX LIMITS: SILVERTHORNE TO EJMT, FLOYD HILL TO C-470



Not to Scale  
Print Date: 1/16/2014

# Alt03\_Opt01

## Minimum Program per PEIS

Minimum program per PEIS with 55 mph design speed including a 3rd bore at EJMT. Minimum program is generally localized auxiliary lane improvements.

### Roadway Information

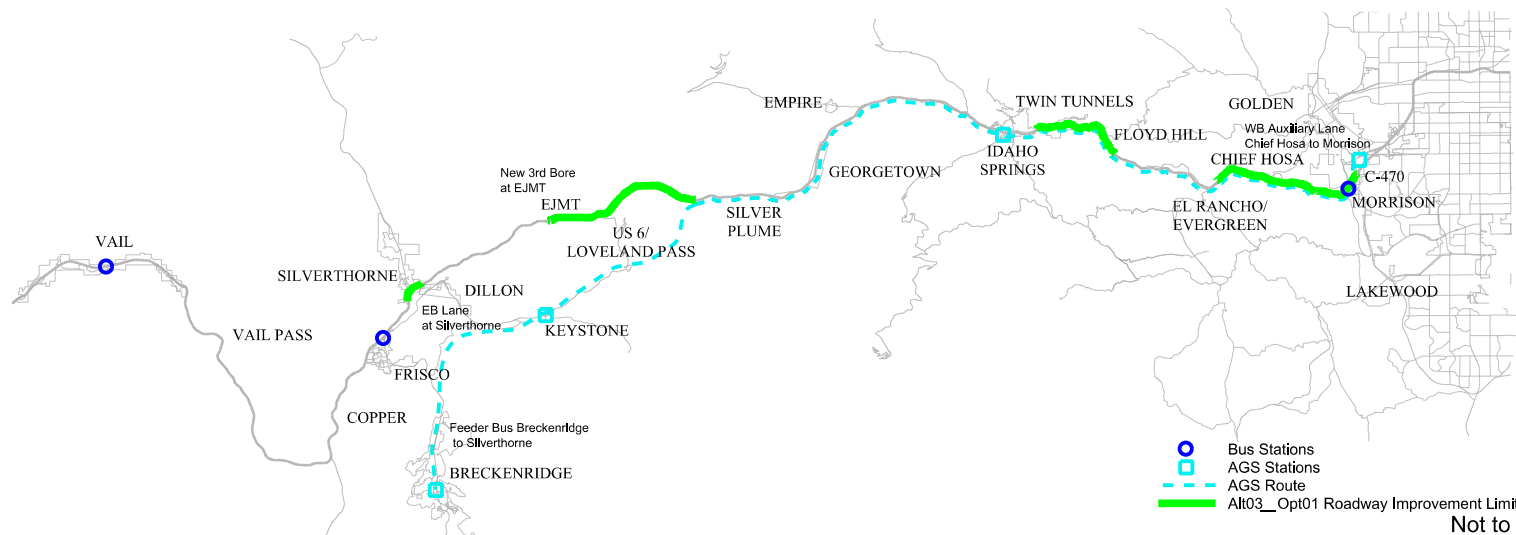
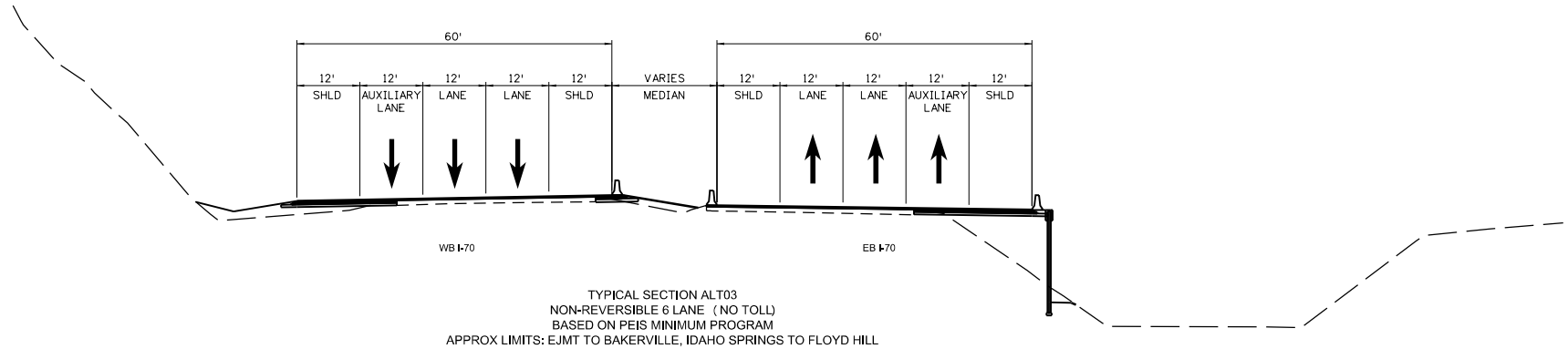
|                                       |   |
|---------------------------------------|---|
| Extent of Roadway Improvements        | EJMT to Floyd Hill  |
| General Purpose (GP) Lane Information | Auxiliary lanes added at localized areas between interchanges   |
| Direction of Improvements             | Both directions (EB and WB)                                     |
| Design Speed                          | 55 mph  |
| Trucks, Private Buses, BRT            | Allowed in GP Lanes and auxiliary lanes                         |
| <b>Tolling</b>                        |   |
| Capacity Improvements                 | No toll for auxiliary lanes                                     |
| Tunnels                               | Dynamic priced toll for EJMT 3rd Bore and Twin Tunnels 3rd Lane |
| Technology                            | Transponder and license plate recognition                       |
| <b>Schedule</b>                       |   |
| Construction Start                    | 2018 (Assumes 3 years NEPA)                                     |
| Construction Duration                 | 3 years   |
| First Year Operation                  | 2021  |
| Financial Period                      | 50 years  |

### Transit Information

|                        |  |
|------------------------|--|
| Termini                | Silverthorne-Denver, Service to GWS (CDOT Bus), Breckenridge-Denver (AGS)  |
| Special Infrastructure | AGS System; None for CDOT Bus  |
| Schedule               | Fall 2014 - CDOT Bus / After 2035 - AGS                                    |
| Stations               | 6 CDOT Bus Stations - GWS, Eagle, Vail, Frisco, Denver (2); 5 AGS Stations |
| <b>Type</b>            |  |
| CDOT Bus               | TBD by CDOT  |
| BRT                    | N/A  |
| AGS                    | In operation after 2035  |

### Special Structures

|  |               |
|--|---------------|
| Special Structures   | EJMT 3rd Bore |
| <p>GP = General Purpose Lane EJMT = Eisenhower Johnson Memorial Tunnels GWS = Glenwood Springs</p> |               |



Not to Scale  
Print Date: 1/16/2014

# Alt03\_Opt02

## Minimum Program per PEIS

Minimum program per PEIS with 65 mph design speed including a 3rd bore at EJMT. Minimum program is generally localized auxiliary lane improvements.

### Roadway Information

|                                       |  |
|---------------------------------------|--|
| Extent of Roadway Improvements        | EJMT to Floyd Hill   |
| General Purpose (GP) Lane Information | Auxiliary lanes added at localized areas between interchanges      |
| Direction of Improvements             | Both directions (EB and WB)  |
| Design Speed                          | 65 mph   |
| Trucks, Private Buses, BRT            | Allowed in GP Lanes and auxiliary lanes                            |
| <b>Tolling</b>                        |  |
| Capacity Improvements                 | No toll for auxiliary lanes  |
| Tunnels                               | Dynamic priced toll for EJMT 3rd Bore, New & Twin Tunnels 3rd Lane |
| Technology                            | Transponder and license plate recognition                          |
| <b>Schedule</b>                       |  |
| Construction Start                    | 2018 (Assumes 3 years NEPA)  |
| Construction Duration                 | 3 years  |
| First Year Operation                  | 2021   |
| Financial Period                      | 50 years   |

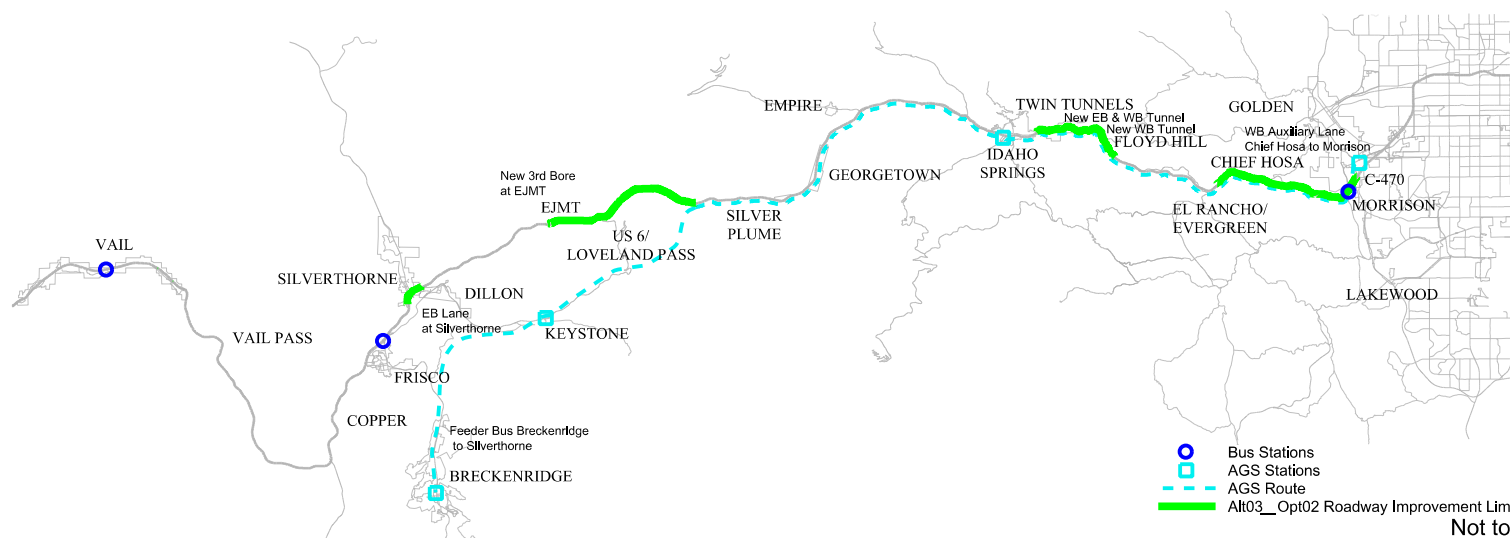
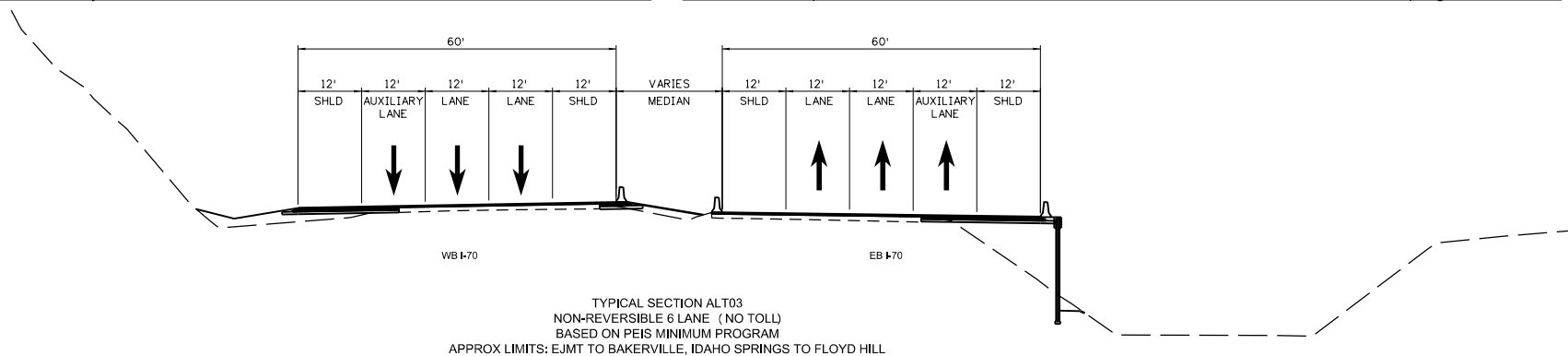
### Transit Information

|                        |  |
|------------------------|--|
| Termini                | Silverthorne-Denver, Service to GWS (CDOT Bus), Breckenridge-Denver (AGS)  |
| Special Infrastructure | AGS System; None for CDOT Bus  |
| Schedule               | Fall 2014 - CDOT Bus / After 2035 - AGS                                    |
| Stations               | 6 CDOT Bus Stations - GWS, Eagle, Vail, Frisco, Denver (2); 5 AGS Stations |
| <b>Type</b>            |  |
| CDOT Bus               | TBD by CDOT  |
| BRT                    | N/A  |
| AGS                    | In operation after 2035  |

### Special Structures

|                    |  |
|--------------------|--|
| Special Structures | EJMT 3rd Bore  |
|                    | New EB & WB Tunnel at Hidden Valley, New WB Tunnel near SH 6 |

GP = General Purpose Lane EJMT = Eisenhower Johnson Memorial Tunnels GWS = Glenwood Springs



Not to Scale  
Print Date: 1/16/2014



# Alt03\_Opt03

## Minimum Program per PEIS

Minimum program per PEIS with 55 mph design speed without a 3rd bore at EJMT. Minimum program is generally localized auxiliary lane improvements. Option is similar to Alt03\_Opt01 without 3rd Bore EJMT.

### Roadway Information

|                                       |   |
|---------------------------------------|---|
| Extent of Roadway Improvements        | EJMT to Floyd Hill  |
| General Purpose (GP) Lane Information | Auxiliary lanes added at localized areas between interchanges |
| Direction of Improvements             | Both directions (EB and WB)                                   |
| Design Speed                          | 55 mph  |
| Trucks, Private Buses, BRT            | Allowed in GP Lanes and auxiliary lanes                       |
| <b>Tolling</b>                        |   |
| Capacity Improvements                 | No toll for auxiliary lanes                                   |
| Tunnels                               | Dynamic priced toll for Twin Tunnels 3rd Lane                 |
| Technology                            | Transponder and license plate recognition                     |
| <b>Schedule</b>                       |   |
| Construction Start                    | 2018 (Assumes 3 years NEPA)                                   |
| Construction Duration                 | 3 years   |
| First Year Operation                  | 2021  |
| Financial Period                      | 50 years  |

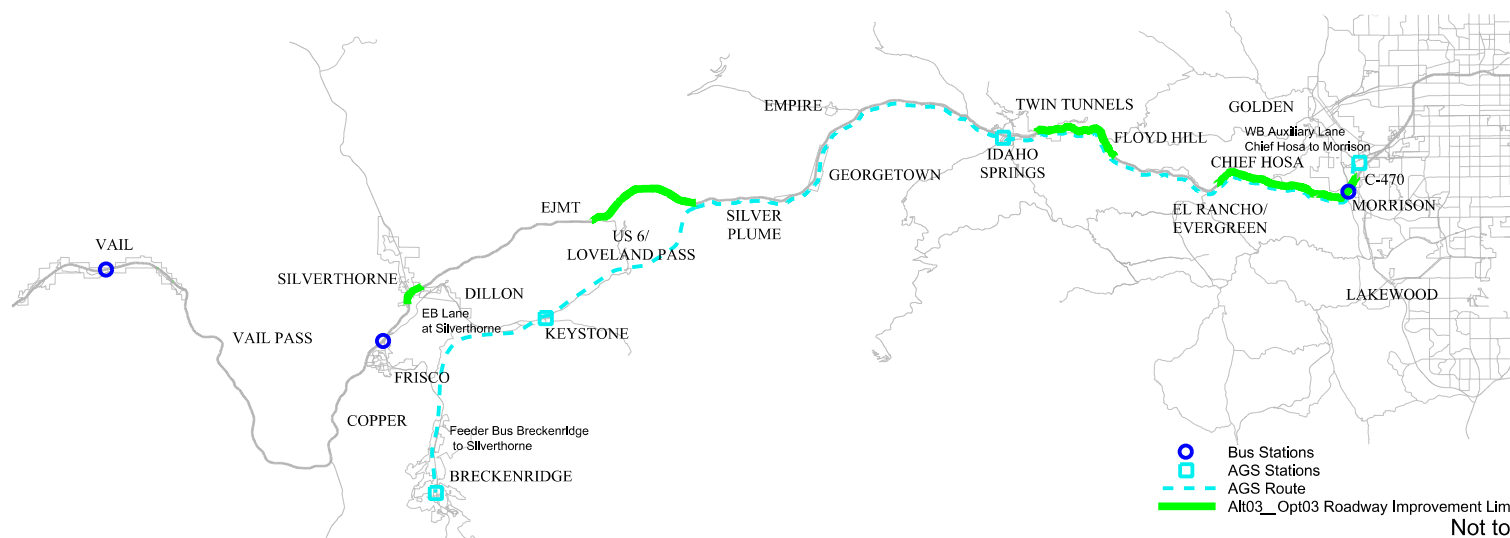
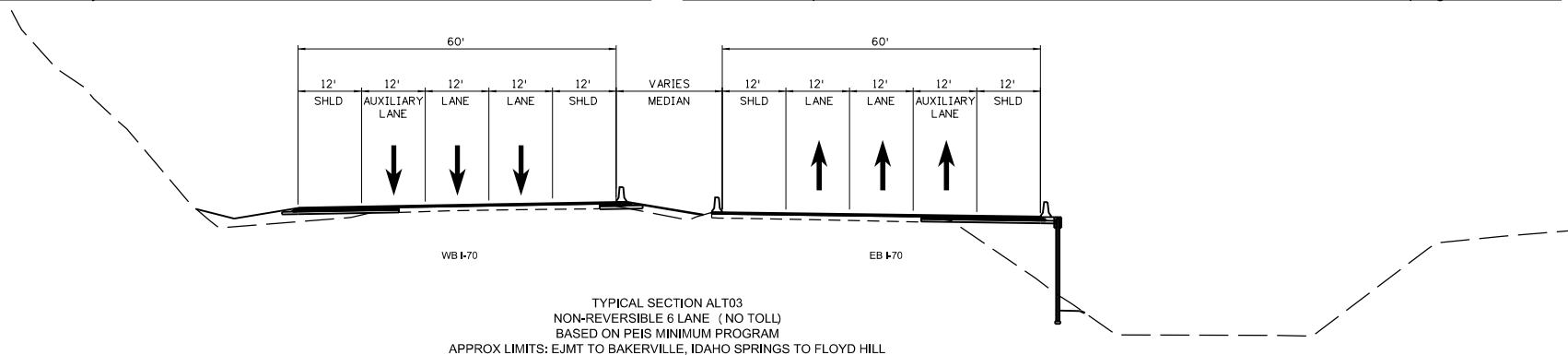
### Transit Information

|                        |  |
|------------------------|--|
| Termini                | Silverthorne-Denver, Service to GWS (CDOT Bus), Breckenridge-Denver (AGS)  |
| Special Infrastructure | AGS System; None for CDOT Bus  |
| Schedule               | Fall 2014 - CDOT Bus / After 2035 - AGS                                    |
| Stations               | 6 CDOT Bus Stations - GWS, Eagle, Vail, Frisco, Denver (2); 5 AGS Stations |
| <b>Type</b>            |  |
| CDOT Bus               | TBD by CDOT  |
| BRT                    | N/A  |
| AGS                    | In operation after 2035  |

### Special Structures

|                    |  |
|--------------------|--|
| Special Structures |  |
|                    |  |
|                    |  |
|                    |  |

GP = General Purpose Lane EJMT = Eisenhower Johnson Memorial Tunnels GWS = Glenwood Springs



# Alt03\_Opt04

## Minimum Program per PEIS

Minimum program per PEIS with 65 mph design speed without a 3rd bore at EJMT. Minimum program is generally localized auxiliary lane improvements. Option is similar to Alt03\_Opt02 without 3rd Bore EJMT.

### Roadway Information

|                                       |   |
|---------------------------------------|---|
| Extent of Roadway Improvements        | EJMT to Floyd Hill  |
| General Purpose (GP) Lane Information | Auxiliary lanes added at localized areas between interchanges |
| Direction of Improvements             | Both directions (EB and WB)                                   |
| Design Speed                          | 65 mph  |
| Trucks, Private Buses, BRT            | Allowed in GP Lanes and auxiliary lanes                       |
| <b>Tolling</b>                        |   |
| Capacity Improvements                 | No toll for auxiliary lanes                                   |
| Tunnels                               | Dynamic priced toll for New & Twin Tunnels 3rd Lane           |
| Technology                            | Transponder and license plate recognition                     |
| <b>Schedule</b>                       |   |
| Construction Start                    | 2018 (Assumes 3 years NEPA)                                   |
| Construction Duration                 | 3 years   |
| First Year Operation                  | 2021  |
| Financial Period                      | 50 years  |

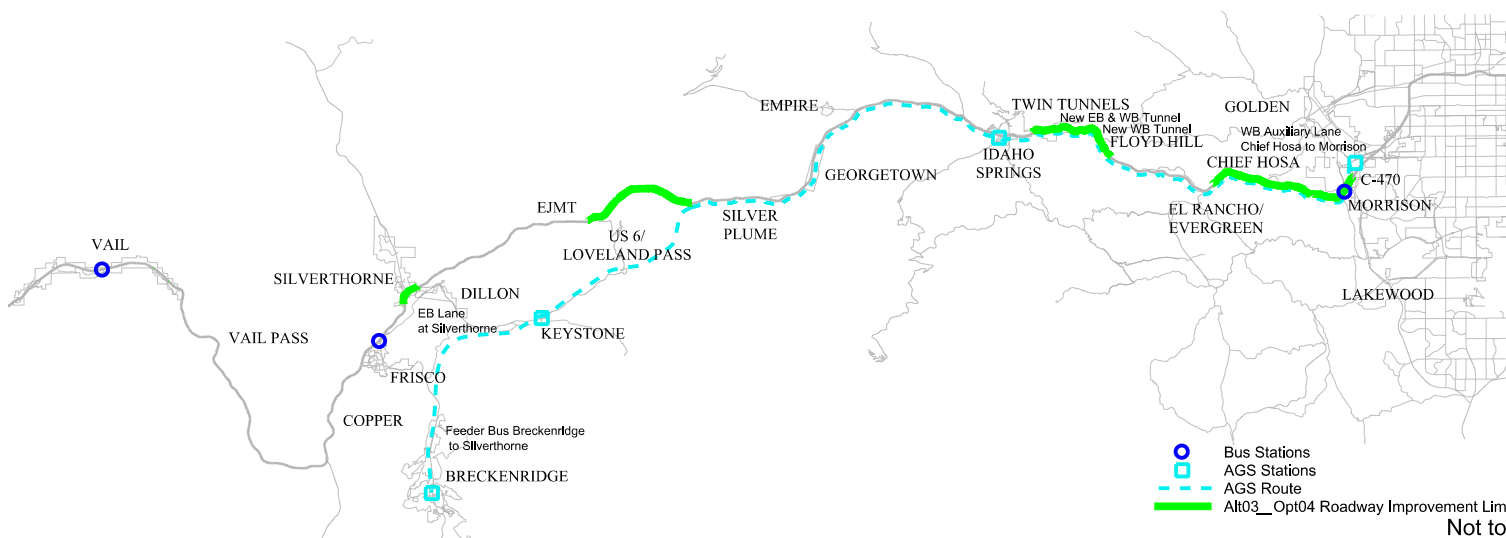
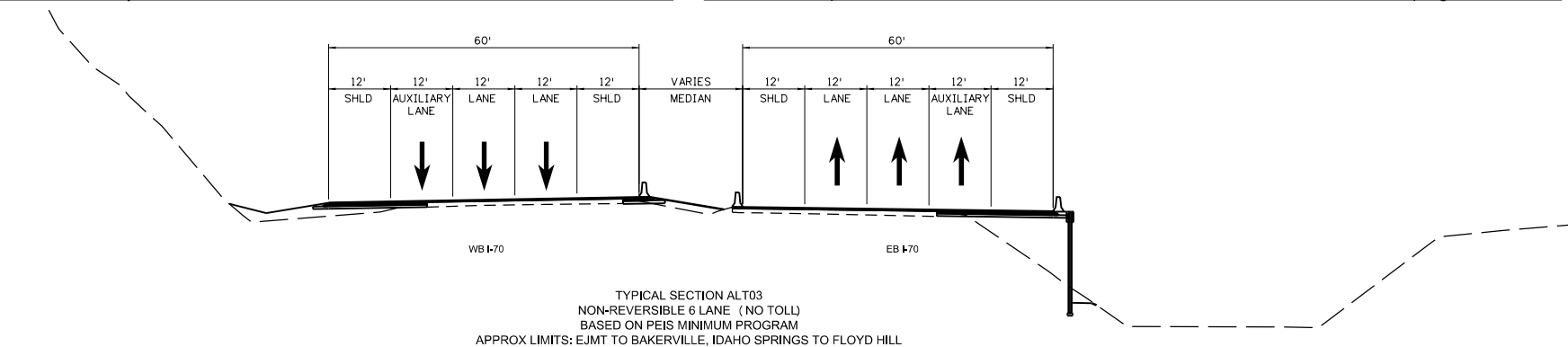
### Transit Information

|                        |  |
|------------------------|--|
| Termini                | Silverthorne-Denver, Service to GWS (CDOT Bus), Breckenridge-Denver (AGS)  |
| Special Infrastructure | AGS System; None for CDOT Bus  |
| Schedule               | Fall 2014 - CDOT Bus / After 2035 - AGS                                    |
| Stations               | 6 CDOT Bus Stations - GWS, Eagle, Vail, Frisco, Denver (2); 5 AGS Stations |
| <b>Type</b>            |  |
| CDOT Bus               | TBD by CDOT  |
| BRT                    | N/A  |
| AGS                    | In operation after 2035  |

### Special Structures

|                    |  |
|--------------------|--|
| Special Structures | New EB & WB Tunnel at Hidden Valley, New WB Tunnel near SH 6 |
|--------------------|--|

GP = General Purpose Lane EJMT = Eisenhower Johnson Memorial Tunnels GWS = Glenwood Springs



- Bus Stations
- AGS Stations
- AGS Route
- Alt03\_Opt04 Roadway Improvement Limits

Not to Scale  
Print Date: 1/16/2014

# Alt04\_Opt01

## Maximum Program per PEIS

Maximum program per PEIS with 55 mph design speed including a 3rd bore at EJMT. Maximum program includes one additional non-reversible tolled lane (EB & WB) between EJMT and Floyd Hill.

### Roadway Information

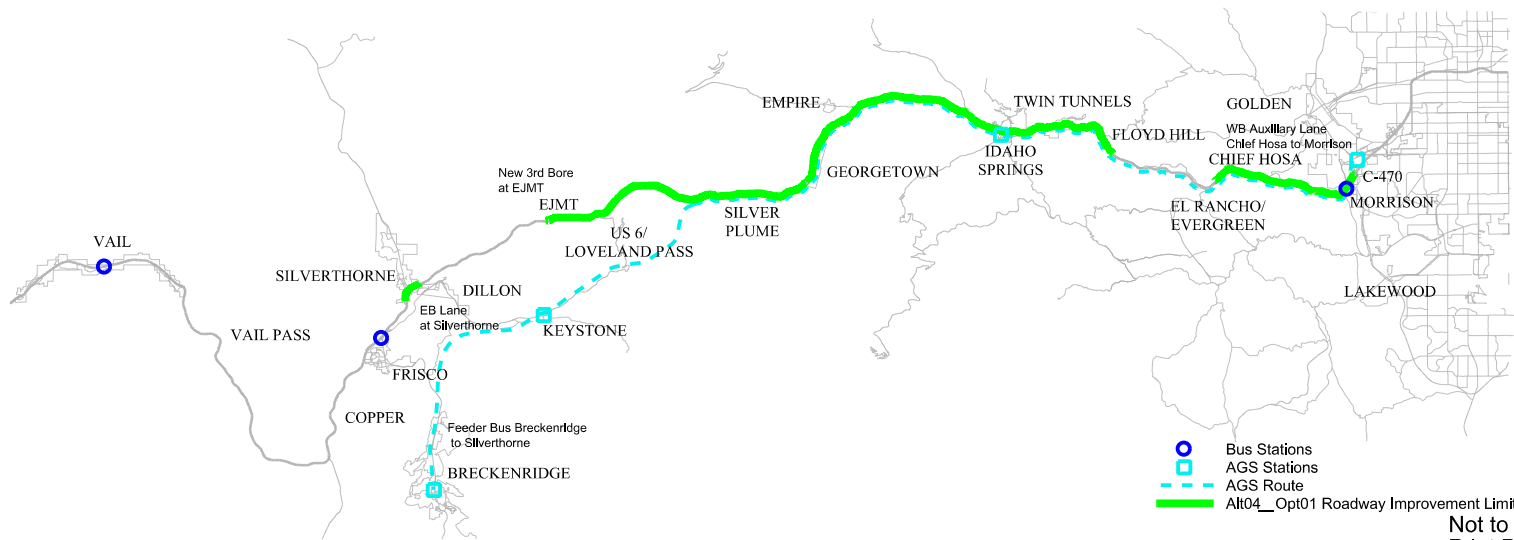
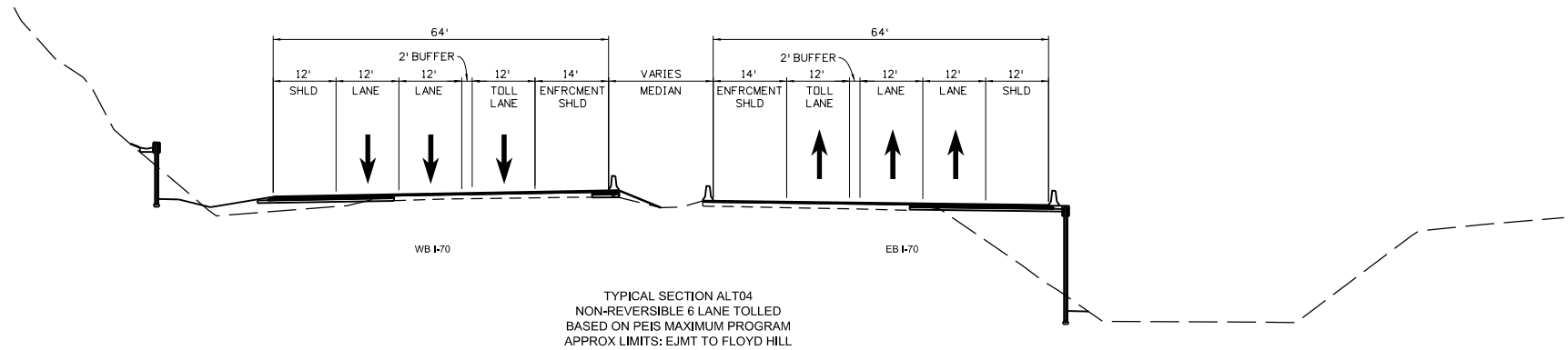
|                                       |   |
|---------------------------------------|---|
| Extent of Roadway Improvements        | EJMT to Floyd Hill  |
| General Purpose (GP) Lane Information | Additional capacity by widening existing (Non-reversible)       |
| Direction of Improvements             | Both directions (EB and WB)                                     |
| Design Speed                          | 55 mph  |
| Trucks, Private Buses, BRT            | Allowed in Toll Lane (Always in GP Lanes)                       |
| <b>Tolling</b>                        |   |
| Capacity Improvements                 | Dynamic priced toll for 3rd toll lane                           |
| Tunnels                               | Dynamic priced toll for EJMT 3rd Bore and Twin Tunnels 3rd Lane |
| Technology                            | Transponder and license plate recognition                       |
| <b>Schedule</b>                       |   |
| Construction Start                    | 2018 (Assumes 3 years NEPA)                                     |
| Construction Duration                 | 4 years   |
| First Year Operation                  | 2022  |
| Financial Period                      | 50 years  |

### Transit Information

|                        |  |
|------------------------|--|
| Termini                | Silverthorne-Denver, Service to GWS (CDOT Bus), Breckenridge-Denver (AGS)  |
| Special Infrastructure | AGS System; None for CDOT Bus  |
| Schedule               | Fall 2014 - CDOT Bus / After 2035 - AGS                                    |
| Stations               | 6 CDOT Bus Stations - GWS, Eagle, Vail, Frisco, Denver (2); 5 AGS Stations |
| <b>Type</b>            |  |
| CDOT Bus               | TBD by CDOT  |
| BRT                    | N/A  |
| AGS                    | In operation after 2035  |

### Special Structures

|   |               |
|---|---------------|
| Special Structures  | EJMT 3rd Bore |
| GP = General Purpose Lane EJMT = Eisenhower Johnson Memorial Tunnels GWS = Glenwood Springs |               |



# Alt04\_Opt02

## Maximum Program per PEIS

Maximum program per PEIS with 65 mph design speed including a 3rd bore at EJMT. Maximum program includes one additional non-reversible tolled lane (EB & WB) between EJMT and Floyd Hill.

### Roadway Information

|                                       |   |
|---------------------------------------|---|
| Extent of Roadway Improvements        | EJMT to Floyd Hill  |
| General Purpose (GP) Lane Information | Additional capacity by widening existing                              |
| Direction of Improvements             | Both directions (EB and WB)   |
| Design Speed                          | 65 mph  |
| Trucks, Private Buses, BRT            | Allowed in Toll Lane (Always in GP Lanes)                             |
| <b>Tolling</b>                        |   |
| Capacity Improvements                 | Dynamic priced toll for 3rd toll lane                                 |
| Tunnels                               | Dynamic priced toll for EJMT 3rd Bore and New & Twin Tunnels 3rd Lane |
| Technology                            | Transponder and license plate recognition                             |
| <b>Schedule</b>                       |   |
| Construction Start                    | 2018 (Assumes 3 years NEPA)   |
| Construction Duration                 | 4 years   |
| First Year Operation                  | 2022  |
| Financial Period                      | 50 years  |

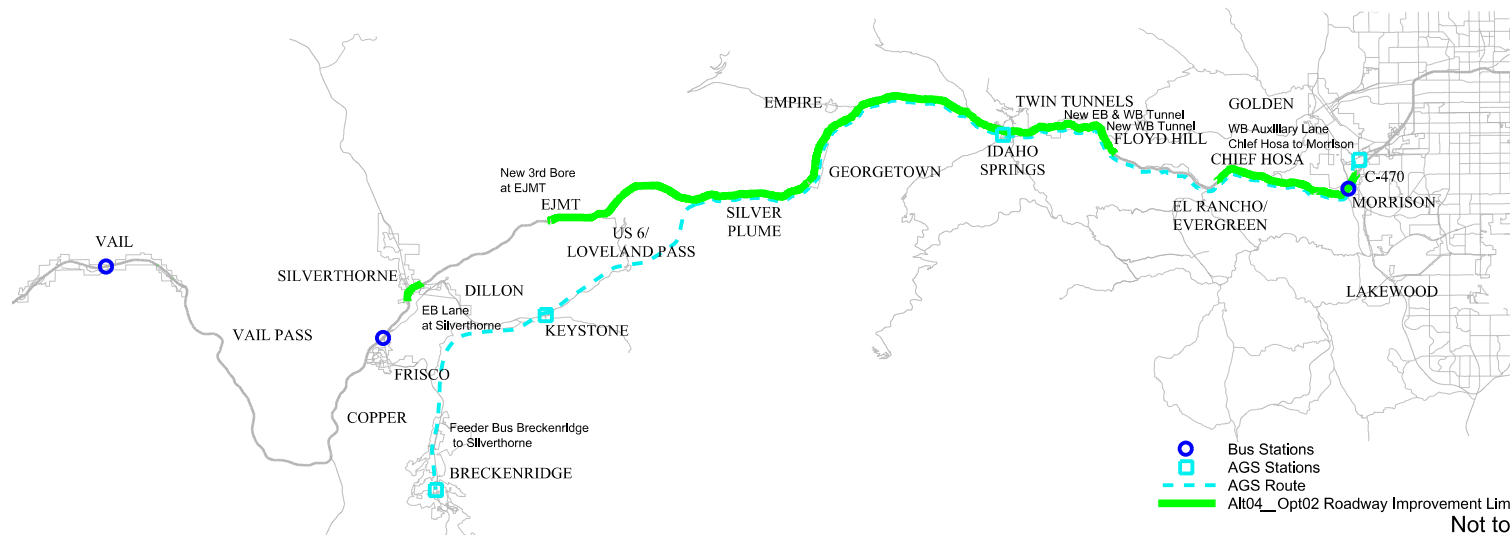
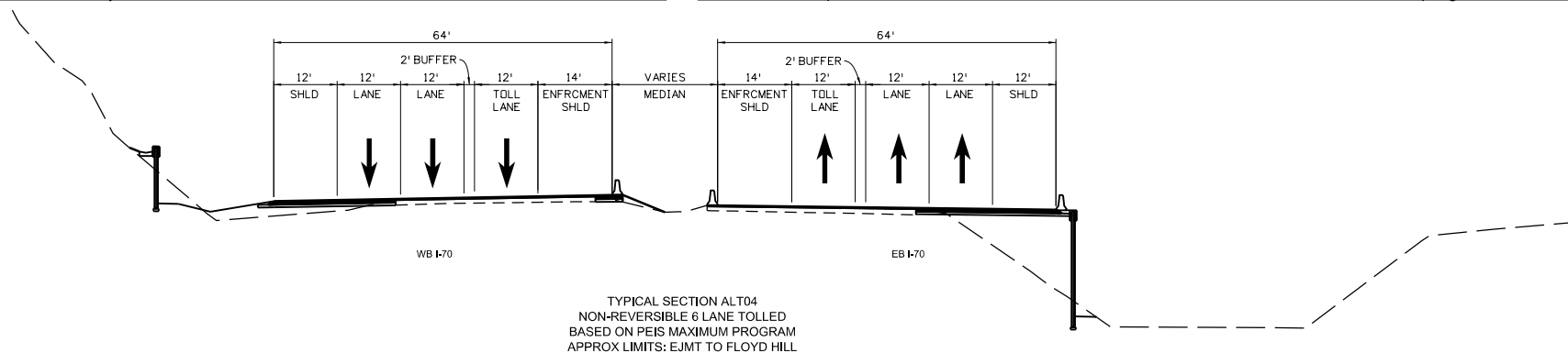
### Transit Information

|                        |  |
|------------------------|--|
| Termini                | Silverthorne-Denver, Service to GWS (CDOT Bus), Breckenridge-Denver (AGS)  |
| Special Infrastructure | AGS System; None for CDOT Bus  |
| Schedule               | Fall 2014 - CDOT Bus / After 2035 - AGS                                    |
| Stations               | 6 CDOT Bus Stations - GWS, Eagle, Vail, Frisco, Denver (2); 5 AGS Stations |
| <b>Type</b>            |  |
| CDOT Bus               | TBD by CDOT  |
| BRT                    | N/A  |
| AGS                    | In operation after 2035  |

### Special Structures

|                    |  |
|--------------------|--|
| Special Structures | EJMT 3rd Bore  |
|                    | New EB & WB Tunnel at Hidden Valley, New WB Tunnel near SH 6 |

GP = General Purpose Lane EJMT = Eisenhower Johnson Memorial Tunnels GWS = Glenwood Springs



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Print Date: 1/16/2014

# Alt05\_Opt01

## Permanent Peak Period Shoulder Lane

Widen the existing roadway to accommodate one additional left side managed lane (EB & WB) for use during peak times, during non-peak times operates as a standard shoulder. Provide full width shoulder on right side.

### Roadway Information

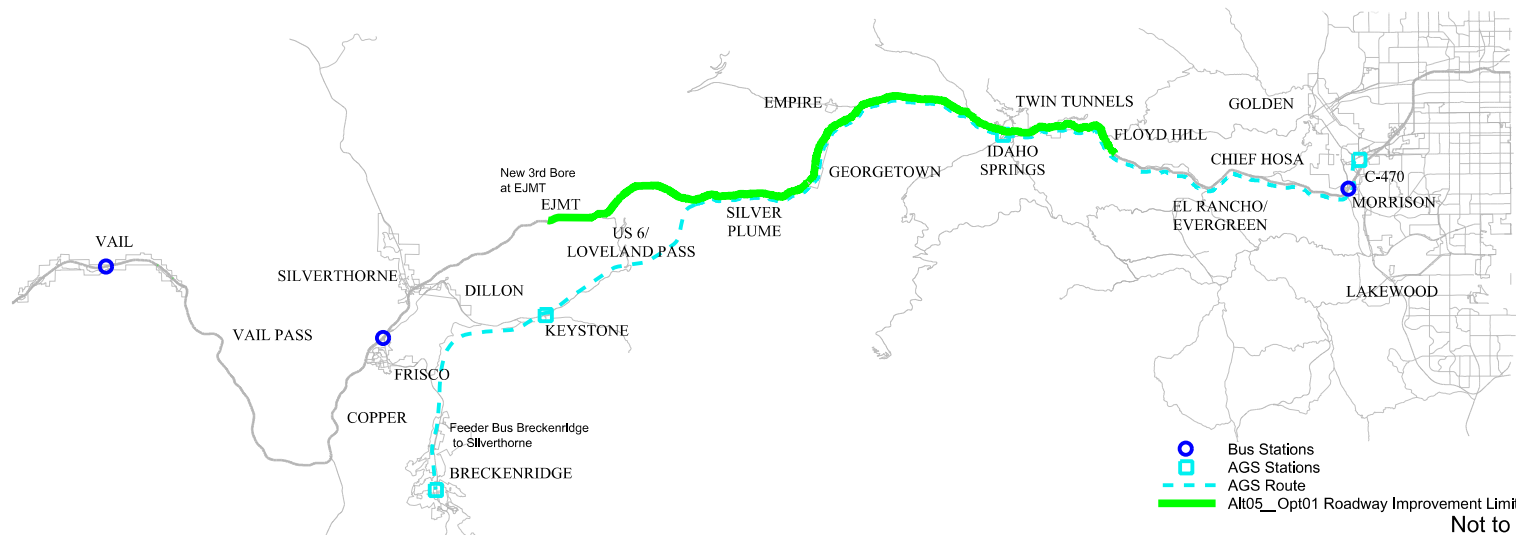
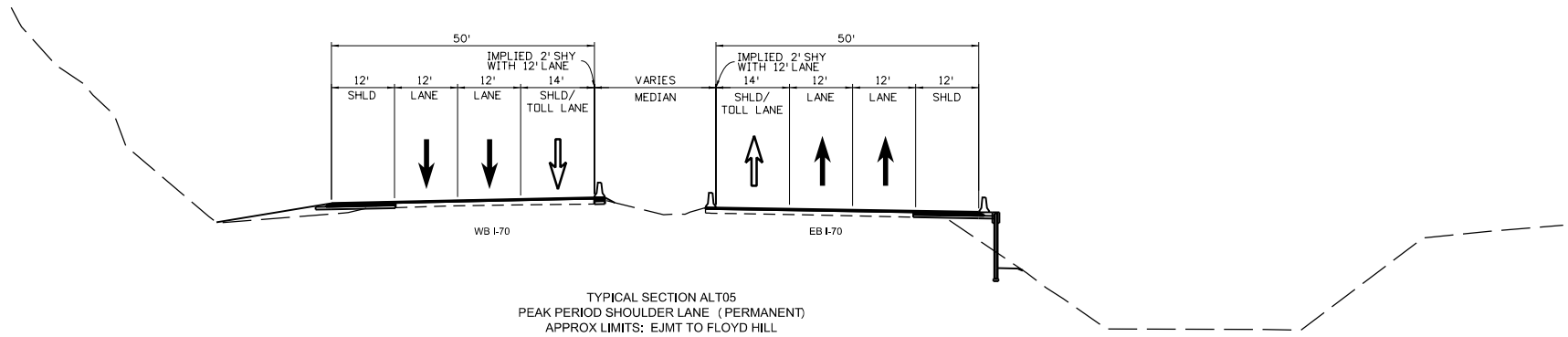
|                                       |   |
|---------------------------------------|---|
| Extent of Roadway Improvements        | EJMT to Floyd Hill  |
| General Purpose (GP) Lane Information | Additional capacity by widening existing                        |
| Direction of Improvements             | Both directions (EB and WB)                                     |
| Design Speed                          | Match Existing  |
| Trucks, Private Buses, BRT            | Allowed in Peak Period Lane (Always in GP Lanes)                |
| <b>Tolling</b>                        |   |
| Capacity Improvements                 | Dynamic priced toll for EB & WB Peak Period Shoulder Lanes      |
| Tunnels                               | Dynamic priced toll for EJMT 3rd Bore and Twin Tunnels 3rd Lane |
| Technology                            | Transponder and license plate recognition                       |
| <b>Schedule</b>                       |   |
| Construction Start                    | 2019 (Assumes 4 years NEPA)                                     |
| Construction Duration                 | 4 years   |
| First Year Operation                  | 2023  |
| Financial Period                      | 50 years  |

### Transit Information

|                        |  |
|------------------------|--|
| Termini                | Silverthorne-Denver, Service to GWS (CDOT Bus), Breckenridge-Denver (AGS)  |
| Special Infrastructure | AGS System; None for CDOT Bus  |
| Schedule               | Fall 2014 - CDOT Bus / After 2035 - AGS                                    |
| Stations               | 6 CDOT Bus Stations - GWS, Eagle, Vail, Frisco, Denver (2); 5 AGS Stations |
| <b>Type</b>            |  |
| CDOT Bus               | TBD by CDOT  |
| BRT                    | N/A  |
| AGS                    | In operation after 2035  |

### Special Structures

|   |               |
|---|---------------|
| Special Structures  | EJMT 3rd Bore |
| GP = General Purpose Lane EJMT = Eisenhower Johnson Memorial Tunnels GWS = Glenwood Springs |               |



Not to Scale  
Print Date: 1/16/2014

# Alt06\_Opt01

## Temporary Peak Period Shoulder Lane

Using the existing roadway, accommodate one additional WB left side managed lane for use during peak times; during non-peak times operates as a standard shoulder. No twelve foot wide shoulders are available during peak periods. During non-peak periods, twelve foot breakdown shoulder is on left side instead of right. Construction of WB peak period lane from Empire to Floyd Hill only. (This alternative assumes EB direction peak period lane from Empire to Floyd Hill is constructed.)

### Roadway Information

|                                       |  |
|---------------------------------------|--|
| Extent of Roadway Improvements        | Empire to Floyd Hill                             |
| General Purpose (GP) Lane Information | Additional capacity by restriping existing       |
| Direction of Improvements             | WB Only Direction                                |
| Design Speed                          | Match Existing                                   |
| Trucks, Private Buses, BRT            | Allowed in Peak Period Lane (Always in GP Lanes) |

### Tolling

|                       |  |
|-----------------------|--|
| Capacity Improvements | Dynamic priced toll for EB & WB Peak Period Shoulder Lanes |
| Tunnels               | Dynamic priced toll for Twin Tunnels 3rd Lanes             |
| Technology            | Transponder and license plate recognition                  |

### Schedule

|                       |                               |
|-----------------------|-------------------------------|
| Construction Start    | 2016 (Assumes 1.5 years NEPA) |
| Construction Duration | 3 years                       |
| First Year Operation  | 2019                          |
| Financial Period      | 50 years                      |

### Transit Information

|                        |  |
|------------------------|--|
| Termini                | Silverthorne-Denver, Service to GWS (CDOT Bus), Breckenridge-Denver (AGS)  |
| Special Infrastructure | AGS System; None for CDOT Bus  |
| Schedule               | Fall 2014 - CDOT Bus / After 2035 - AGS                                    |
| Stations               | 6 CDOT Bus Stations - GWS, Eagle, Vail, Frisco, Denver (2); 5 AGS Stations |

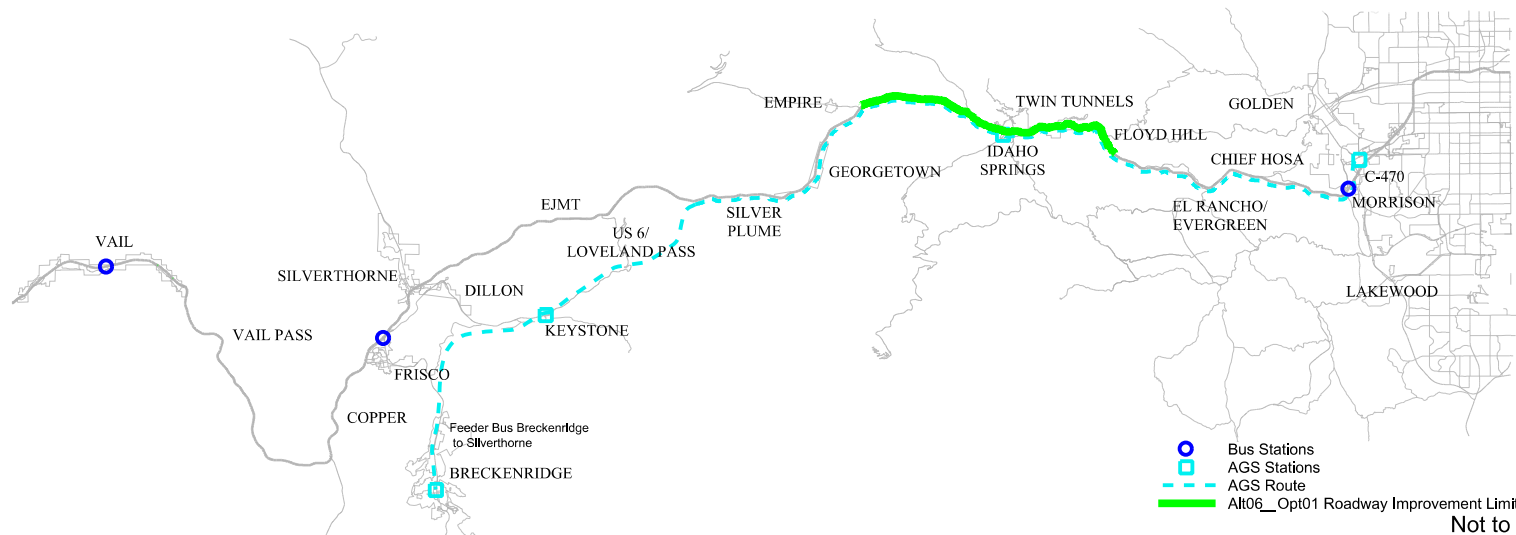
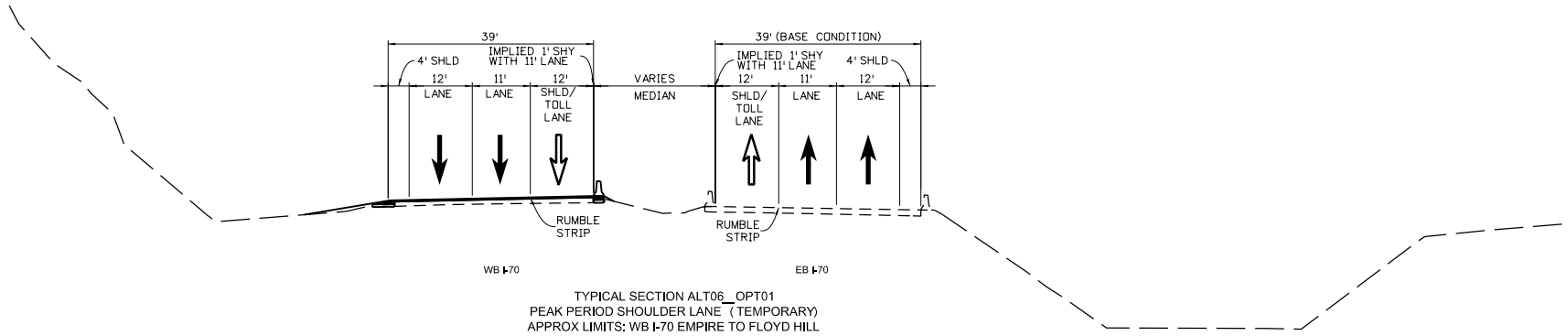
### Type

|          |                         |
|----------|-------------------------|
| CDOT Bus | TBD by CDOT             |
| BRT      | N/A                     |
| AGS      | In operation after 2035 |

### Special Structures

|                    |  |
|--------------------|--|
| Special Structures |  |
|--------------------|--|

GP = General Purpose Lane EJMT = Eisenhower Johnson Memorial Tunnels GWS = Glenwood Springs



- Bus Stations
- AGS Stations
- AGS Route
- Alt06\_Opt01 Roadway Improvement Limits

Not to Scale  
Print Date: 1/16/2014

| <b>I-70 Mountain Corridor Traffic and Revenue Study - Assumptions</b> |  |  |
|---|--|--|
| <b>Draft Framework for Discussion 12-05-2013</b>                      |  |  |
| <b>Level 1 Traffic and Revenue Study</b>                              |  | <b>Justification</b>   |
| <b>Trip Descriptors and Market Segments</b>                           |  |  |
| Trip purposes   | As defined in PEIS Corridor Model: Home-based work; local non-work; front range day recreation; stay at hotel, resort, or forest; corridor to airport / front range; corridor day recreation; second homes; visit friends and family; out of state air; gaming trips   | The PEIS does a good job at identifying the market segments and sub segments for the corridor. We will use these for level 1 and corroborate / adjust based on the SP survey results in level 2.   |
| Trip lengths  | Calculated for each OD pair and trip purpose represented in the Corridor Model   | Utilizing the existing trip duration data is appropriate for level 1 screening.  |
| Origin / Destination of trips   | As specified in Corridor Model and benchmarked to AirSage O/D data obtained for AGS study.   | Utilizing the existing OD data is appropriate for level 1 screening.   |
| Peak Travel Season  | Peak season: Winter weekend days (Friday after Thanksgiving to April 15th, 48/year). Summer weekend days (69 per year) Source: PEIS  | We will use the same seasons of travel as designated in the PEIS in order to appropriately compare across results. The peak travel seasons are defined by 12 winter weekends in a year (a total of 48 days) running from the Friday after Thanksgiving to April 15th; and 17 summer weekends in a year (a total of 69 days). The remaining 23 weekends in the year (92 days) are considered off-peak for the purposes of this analysis.  |
| Vehicle occupancy rate  | Work trips: 1.1; local non-work trips, home-based other, and non-home based: 1.7; other trip purposes: 2.7. Source: PEIS   | We will use these PEIS values for level 1 screening and corroborate / adjust based on the SP survey results during level 2.  |
| Population, households, income, employment                            | As evaluated in PEIS; the Corridor Model will be updated with 2010 demographics  | We will use same sources as PEIS for the socioeconomic data  |
| <b>Model Run Parameters</b>   |  |  |
| Base year   | 2010   | to provide an updated baseline for the forecasts   |
| Forecast year   | 2025 (PEIS forecast year)  | The PEIS includes travel demand forecasts in the Corridor for the years 2025, 2035, and 2050. The 2035 travel demand forecasts, performed to have a forecast 20 years out, were factored from the 2025 travel demand forecasts and is subject to the same uncertainties as the 2025 forecast. Our 2035 forecast will be extrapolated based on land use forecasts from the ROD study. The 2050 forecasts were developed to identify long-term solutions for the Corridor and model the long-term cash flow. To account for increasing variability of projecting into the future, the 2050 travel demand will be estimated as a range, as was the case for the PEIS.   |
| Future years  | 2035 and 2050 (to match PEIS future years)   |  |
| Sensitivity Test  | Modeling all existing highway lanes with toll applied. Toll = initial toll rate for autos and trucks as specified below. This sensitivity test includes CDOT bus up to 2035 and AGS post-2035  | The toll rates for the sensitivity test are equivalent to those used to evaluate the managed lanes alternatives to allow for a direct comparison.  |
| Existing traffic volumes (all vehicles)                               | C-DOT traffic counts 2012 to be used as a benchmark for volumes represented in the Corridor Model  | Utilizing the existing traffic volume data is appropriate for level 1 screening. We are conducting traffic counts for the winter days to improve the model's accuracy  |
| Toll structure  | Based on cents/mile. Optimized rates for specific day types based on model sensitivity tests (toll response curves). Fixed tunnel charges will be analyzed separately.   | Standard industry practice   |
| Initial toll rate auto (/mi)  | \$0.10 - Range to be tested: initial rate \$0.05 - \$1.00  | We will extend the range to include a rate 5 cents lower than the base toll rate to evaluate the impact of a lower rate  |
| Initial toll rate truck (/mi)   | \$0.30 - Range to be tested: initial rate \$0.15-\$3.00  | We will extend the range to include a rate 5 cents lower than the base toll rate to evaluate the impact of a lower rate  |
| Value of Time (VOTs) - 2013 dollars                                   | VOT for transit: \$8-\$25/hr. Source: Colorado AGS Mode Choice Model spreadsheet from SDG SP Survey Results<br>VOT for home-based work; front range day recreation; stay at hotel resort or forest; second homes; and out of state air: \$12.52/hr. Source: PEIS (Pg. A-149 Technical Report)<br>VOT for local non-work; corridor to airport / front range; corridor day recreation; visit friends and family: \$6.27/hr. Source: PEIS (Pg. A-149 Technical Report)<br>VOT for trucks: \$54 in peak; \$26 in off-peak. Source: DRCOG Model   | The VOTs proposed come directly from existing studies of the corridor including the PEIS (Pg. A-149 Technical Report) and the AGS study (Colorado AGS Mode Choice Model spreadsheet from SDG SP Survey Results). We are utilizing the same VOTs provided in earlier studies in order to compare across results. The PEIS VOTs match the market segments and sub segments we will evaluate; the AGS study provides a VOT for transit; and the DRCOG model provides VOT for freight vehicles during peak and off-peak, which is critical to evaluate their willingness to pay for managed lanes. The values were updated from their original year to 2013 dollars. We will use these numbers as a starting point, but given that they do seem low when compared to the USDOT guidelines ("Revised Departmental Guidance on Valuation of Travel Time in Economic Analysis" Sept. 28, 2011 <a href="http://www.dot.gov/office-policy/transportation-policy/revised-departmental-guidance-valuation-travel-time-economic">http://www.dot.gov/office-policy/transportation-policy/revised-departmental-guidance-valuation-travel-time-economic</a> ), we will test a range of numbers and evaluate based on the results. |
| <b>Traffic growth</b>   |  |  |
| Car / commercial / through / out-of-state traffic                     | Based on PEIS demographic assumptions, benchmarked to DRCOG and AGS growth assumptions   | Utilizing PEIS data benchmarked to assumptions in other studies is appropriate for level 1 screening.  |
| Analysis Periods  | As established by the PEIS AM peak period: 6:00 AM to 9:59 AM; Midday or Noon period: 10:00 AM to 2:59 PM; PM peak period: 3:00 PM to 6:59 PM; Night period: 7:00 PM to 5:59 AM the next day   | We are utilizing the same analysis periods as the PEIS in order to compare across results.   |
| Peak Days of the week   | Thursday - Sunday inclusive  | We are utilizing the same analysis periods as the PEIS in order to compare across results  |
| Mix of traffic  | Trucks represent all day average 10% of traffic. As stated in the PEIS: "On weekends, truck and recreational vehicle use is most dominant in Garfield and Eagle counties: seven to eight percent, respectively. In the rest of the Corridor, truck and recreational vehicle use is about three to four percent of person trips. On summer weekdays, truck and recreational vehicle use is most dominant in Glenwood Canyon at 12 to 14 percent, followed by Clear Creek County at nine or ten percent, then Silverthorne to the Loveland Pass interchange with nine percent, and finally the Edwards to Vail East Entrance and Jefferson County segments tying with eight percent. (The fraction of heavy vehicles in Jefferson County represents a smaller percentage, but the greatest number of these vehicle trips in both directions combined.)" (Pg. 7 of the Technical Report). | We are utilizing the same analysis periods as the PEIS in order to compare across results  |
| Unmet demand  | Estimated through comparison of capacity constrained vs. unconstrained model runs  | This is the simplest way to identify unmet demand in level 1 screening. The results are rough given that the trip rates  |

| <b>I-70 Mountain Corridor Traffic and Revenue Study - Assumptions</b> |   |   |
|---|---|---|
| <b>Draft Framework for Discussion 12-05-2013</b>                      |   |   |
| <b>Level 1 Traffic and Revenue Study</b>                              |   | <b>Justification</b>  |
| Induced demand  | Calculated from improvement in generalized cost of travel; each alternative as compared to no build future condition  | This is a simple way to calculate induced demand in level 1 screening. We will conduct a deeper analysis in level 2 in order to corroborate/improve this first cut.   |
| Diverted traffic for tolling estimation purposes                      | As calculated through the capacity constrained network model  | The East side of the corridor presents a segment with an alternate route to I-70. We will calculate diverted traffic in that area through the capacity constrained network model and estimate any impact on revenue expected from |
| Assignment for Managed Lanes (ML)                                     | The split between free lanes and managed lanes will take place in the traffic assignment step. We will manually adjust for expected ridership from AGS, BRT, and the CDOT bus as projected in earlier studies. The effect of managed lanes on the AGS ridership will not be modeled.  | Level 1 will use ridership estimates from the AGS Study. The Parsons team in conjunction with the Transit ITF will finalize the BRT ridership that we will utilize.   |
| <b>Operations</b>   |   |   |
| Lane widths and geometrics  | All alternatives will be modeled using full AASHTO Standards. Lane widths and geometrics will be used to determine capacities for Level 1   | As agreed with FHWA and CDOT  |
| Minimum shoulder width  | Based on TRB Highway Capacity Manual (HCM) or material provided by Parsons Engineering Team   | Per industry standards  |
| Vehicle lane capacity   | For managed lanes, we will use HCM speed-flow curves for freeways adjusted for number of entry points, lane width, truck utilization, grade, and other relevant factors (appropriate for managed lanes where open road tolling is implemented).<br>Capacity assumptions used by Parsons to determine the number of exit lanes:<br>• 1,700 max vehicles per hour per lane (veh/hr./ln) for direct connector ramps<br>• 1,500 max veh/hr./ln for diamond/traditional ramps<br>• 1,300 max veh/hr./ln for loop ramps   | Provided by Parsons Engineering Team  |
| Grade   | Derived from topographical mapping or material provided by Parsons Engineering Team   |   |
| Percent grade   | Derived from topographical mapping or material provided by Parsons Engineering Team   |   |
| Interchange configuration   | Alt03 and 04: standard diamond interchanges as they currently exist, except where operational improvements are needed.<br>Alt01 and 02: (1) For a weave access type, standard diamonds similar to existing configurations except where operational improvements are needed. Exit/entrance to managed lanes occurs outside of the ramp gores at appropriate distances to allow merge and weave movements across the GP lanes. (2) For a direct connect access, diamond interchanges with a direct connect in the middle and a combination of roundabouts and median separation to control directional access to the reversible lanes. (3) Direct system-to-system connection for the connections onto US 40, C-470, and other areas. | Provided by Parsons Engineering Team  |
| Trucks allowed on toll lanes  | Yes, except for Options 04 (maximum program with managed lane) and 05 (hard shoulder running)   | As agreed with CDOT and Parsons Engineering team  |
| Buses allowed on toll lanes   | Yes, except for Options 04 (maximum program with managed lane) and 05 (hard shoulder running)   | As agreed with CDOT and Parsons Engineering team  |
| HOV implementation  | No  | As agreed with CDOT and Parsons Engineering team, and in line with Parsons financial analysis   |
| Days of year of lane closure  | Based on historical data for lane closures on the corridor due to weather, construction, or accidents   | Utilizing historical data available for days of year of road/lane closures is appropriate for level 1 screening.  |
| <b>Construction Costs</b>   |   |   |
| Estimating Format   | Spreadsheet based workbooks for each Alternative  | Consistent with standard formatting   |
| Roadway, Structures, & Tunnels  | Construction line items based on PEIS Estimates; Additional items added to reflect recently developed options & replace some allowances with specific line items  | Consistent with standard estimating procedures w/ ITF collaboration   |
| Transit   | AGS - Estimates directly from 2013 AGS Study  | Recent study information used   |
| Transit   | BRT - Developed estimates from "ground-up" assumptions for rolling stock and stations. Construction line items aligned with roadway and structure line items.   | Consistent with standard estimating procedures w/ ITF collaboration   |
| Transit   | Circulator/Connector Bus Systems - Based on costs from existing systems (Summit Stage, RFTA). Scaled to match T&R options   | Consistent with standard estimating procedures w/ ITF collaboration   |
| Mitigation  | Mitigation for historic, wildlife protection, and water quality based on PEIS data - updated by Issue Task Forces   | Consistent with standard estimating procedures w/ ITF collaboration   |
| Right-of-Way  | Estimated per Federal Regulations   | Consistent with standard estimating procedures & specified guidelines   |
| Operations & Maintenance  | CDOT cost data for items currently maintained by CDOT. Other items as determined through similar projects. Carried through Issue Task Force.  | Consistent with standard estimating procedures w/ ITF collaboration   |
| Other   | Design, Environmental Clearances, and Construction Management are based on percentage of capital costs. CSS cost information provided by CDOT   | Consistent with standard estimating procedures w/ ITF collaboration   |
| <b>Transit Assumptions</b>  |   |   |
| <b>AGS</b>  |   |   |
| Mode share  | 9-11% (Source: AGS study). Ridership will be subtracted prior to mode split step in the model   | We are utilizing AGS study figures in order to compare across results   |
| Fare  | \$.26/mi., established by the AGS committee   | We are utilizing AGS study figures in order to compare across results   |
| Frequency   | 30 minute service in peak period (6 hours/day); hourly service for remaining 12 hours of the day (18 hour day service span). Source: AGS Study  | We are utilizing AGS study figures in order to compare across results   |
| Capex and O&M Cost  | \$11-\$32 Billion for full option, \$5.5-\$18 Billion for MOS costs. Source: AGS Study  | We are utilizing AGS study figures in order to compare across results   |
| Revenue forecast  | Will use traffic forecast parameters as defined in the PEIS and ROD analysis unless updated information is available from current studies or traffic collection information.  | We are utilizing AGS study figures in order to compare across results   |



| <b>I-70 Mountain Corridor Traffic and Revenue Study - Assumptions</b> |  |  |
|---|--|--|
| <b>Draft Framework for Discussion 12-05-2013</b>                      |  |  |
| <b>Level 1 Traffic and Revenue Study</b>                              |  | <b>Justification</b>   |
| Start year of operation   | 2035   |  |
| <b>BRT</b>  |  |  |
| Mode share  | BRT ridership will not be modeled; a mode share of 3-6% based on capacity limits with a low and high occupancy rate range will be subtracted prior to the mode split step in the model | As agreed in Transit ITF   |
| Fare  | \$.17/mi. same as the CDOT bus service   | Based on the expected fare for the CDOT bus service starting 2014              |
| Frequency   | 20 minute service in peak period (9 hours/day); hourly service for remaining 11 hours of the day (18 hour day service span). Source: Parsons Team; Transit ITF                         | Based on Parsons and Transit ITF analysis                                      |
| Capex and O&M Cost  | \$90.5 million, based on Transit ITF estimates   | As agreed with CDOT and Parsons Engineering team                               |
| Revenue forecast  | Based on mode share assumptions and fares  | As agreed in Transit ITF   |
| Start year of operation   | 2018   |  |
| <b>CDOT Bus</b>   |  |  |
| Mode share  | CDOT bus ridership will not be modeled; a mode share based on capacity limits with a low and high occupancy rate range will be subtracted prior to the mode split step in the model.   | As agreed in Transit ITF   |
| Fare  | \$.17/mi.  | Based on CDOT estimates  |
| Frequency   | Two round trips per day 2014-2017. Source: CDOT  | Based on CDOT estimates  |
| Capex and O&M Cost  | TBD; estimates being developed by CDOT   | Based on CDOT estimates  |
| Revenue forecast  | TBD; estimates being developed by CDOT   | Based on CDOT estimates  |
| Start year of operation   | 2014   |  |
| <b>Financial Assumptions</b>  |  |  |
| Build year  | See description of each alternative  | Based on estimates for each alternative  |
| Construction end year   | See description of each alternative  | Based on estimates for each alternative  |
| CPI   | 3%   | Standard industry practice   |
| Toll rate increase over CPI   | 0%   | Variable pricing based on congestion levels - no yearly increases based on CPI |
| Initial toll year   | See description of each alternative  | Based on estimates for each alternative; same as construction end year         |
| Toll days per year (Monday-Thursday)                                  | 200  | Number of Monday-Thursday in a standard year                                   |
| Toll days per year (Friday)   | 52   | Number of Fridays in a standard year   |
| Toll days per year (Saturday)   | 52   | Number of Saturdays in a standard year   |
| Toll days per year (Sunday + holiday)                                 | 61   | Number of Sundays and holidays in one average year                             |
| Annual O&M  | Calculated by T&R and Engineering Team   |  |
| Capex   | Calculated by T&R and Engineering Team   |  |
| Capex base year   | See description of each alternative  |  |
| WACC  | 8.25%  | Same assumption as Parsons financial analysis                                  |
| % Equity  | 25%  | Standard industry practice   |
| Debt service coverage ratio   | 160%   | Standard industry practice   |
| CSS Contingency Factor  | 27% for Design, 19% for Construction Items not meeting   | As determined by the CDOT team   |

