

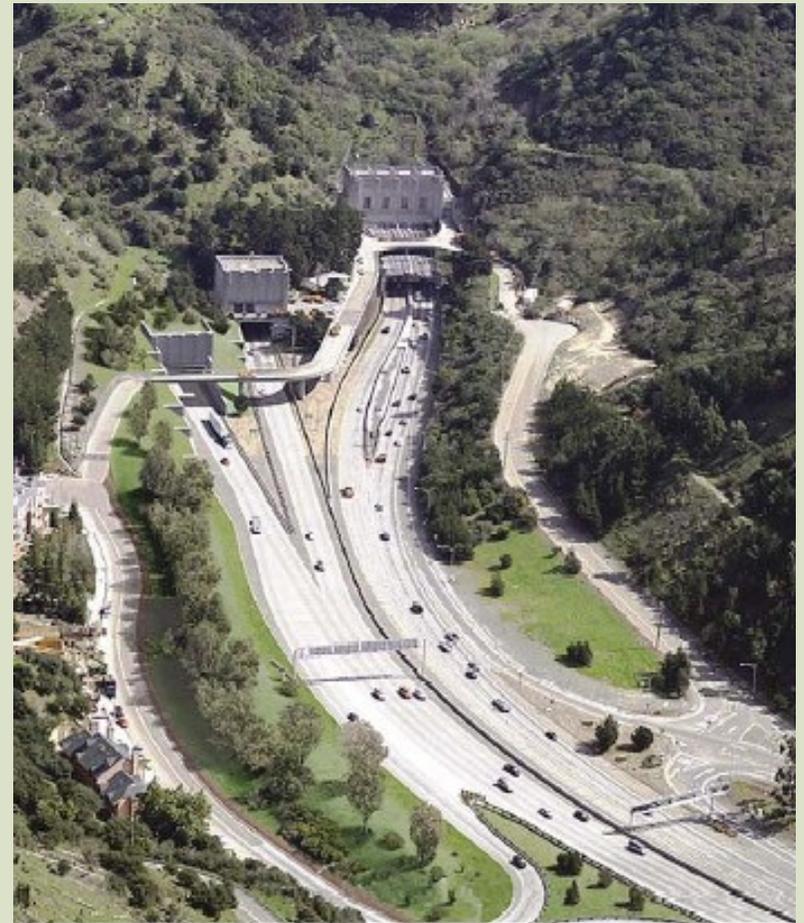
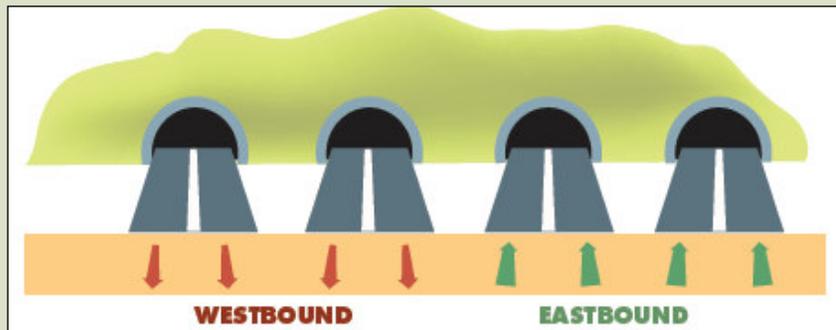
CALDECOTT
Improvement Project

Parkwoods
Construction Information Meeting
September 11, 2007



Proposed Project

- Two southern bores will serve eastbound traffic
- Northern bore and new bore will serve westbound traffic



Other Elements



- Emergency cross passages
- Replace Operations/Maintenance building
- **Alameda**
 - Construction of retaining walls and a noise barrier
 - Realignment of Routes 24/ 13 connector
 - Pavement overlay at Route 24/ Caldecott Lane interchange
 - Improvements to eastbound Route 24
 - Construction of right-turn lane @ Caldecott Lane/ Kay Street intersection
 - Signal at Kay Street and Broadway Intersection
- **Contra Costa**
 - _ Construction of retaining walls
 - Realignment of Westbound Fish Ranch Road on-ramp
 - Improvements to the Eastbound Fish Ranch on-ramp



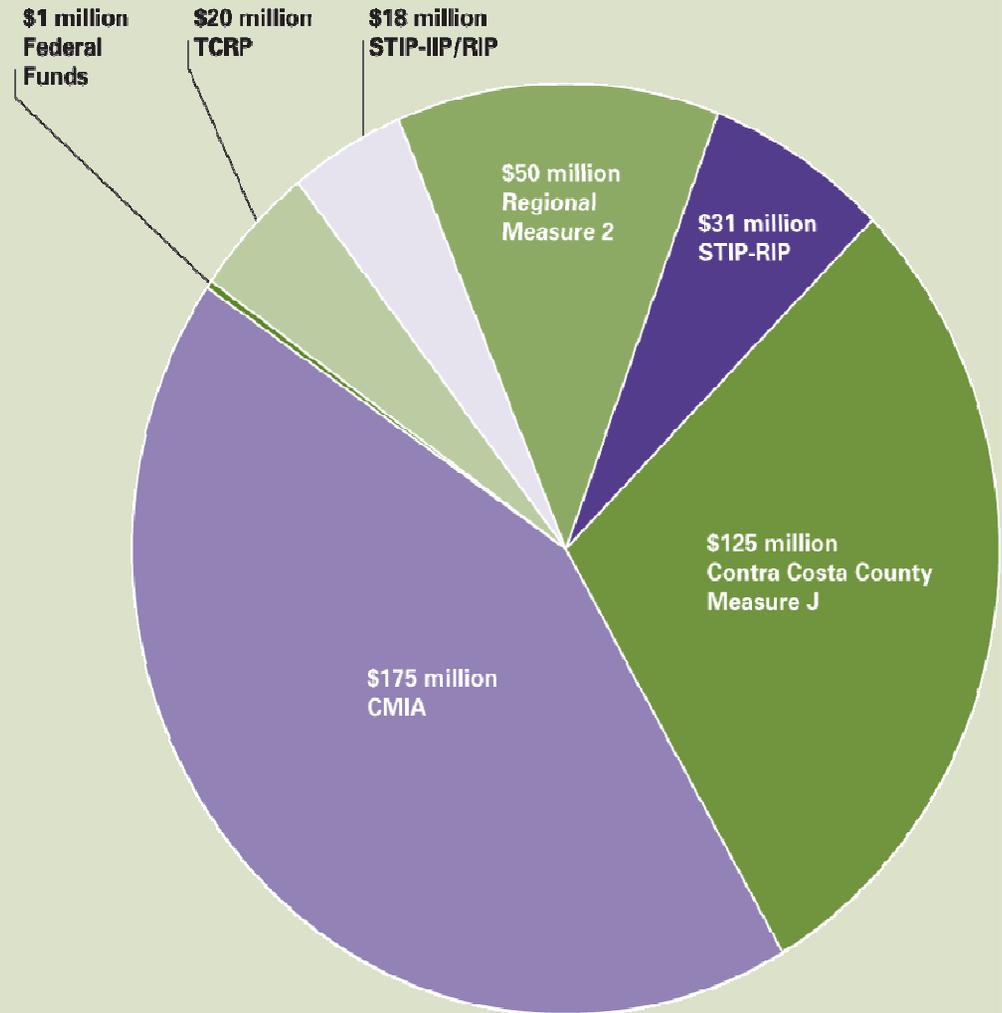
Project Benefits

- Relieve congestion in non-peak direction
- Eliminate daily lane reversals
- Enhance safety
- Provide additional capacity during emergency



Cost and Funding

- Total Project Cost (Future \$): \$420 million
- Available Funding: \$420 million
- The Project is fully funded



Schedule



- Release of the Final Environmental Document: September 2007
- Completion of Design: Summer 2008
- Begin Construction: Summer 2009
- Complete Construction: Winter 2013/2014



Proposed 2-Lane Tunnel: West Portal



Proposed 2-Lane Tunnel: East Portal



Concerns During Construction



- Construction Staging
- Noise
- Handling of Spoils
- Dust
- Fire Safety
- Traffic



Estimated Construction Timeline



| PROJECT STAGES | DURATION | | | | |
|---------------------------|----------|--------|--------|--------|--------|
| | YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 | YEAR 5 |
| Mobilization | █ | | | | |
| Retaining Walls/Soundwall | █ | | | | |
| Tunnel | | █ | █ | █ | |
| 4th Bore Approaches | | | | █ | |
| Finish Retaining Walls | | | | | █ |
| Permanent Soundwall | | | | | █ |
| Caldecott Lane Ramp | | | | | █ |
| Hwy 24/Hwy 13 Connector | █ | | | | |
| Fish Ranch Rd Onramp | | | | | █ |
| Southern Bores Approaches | | | | | █ |



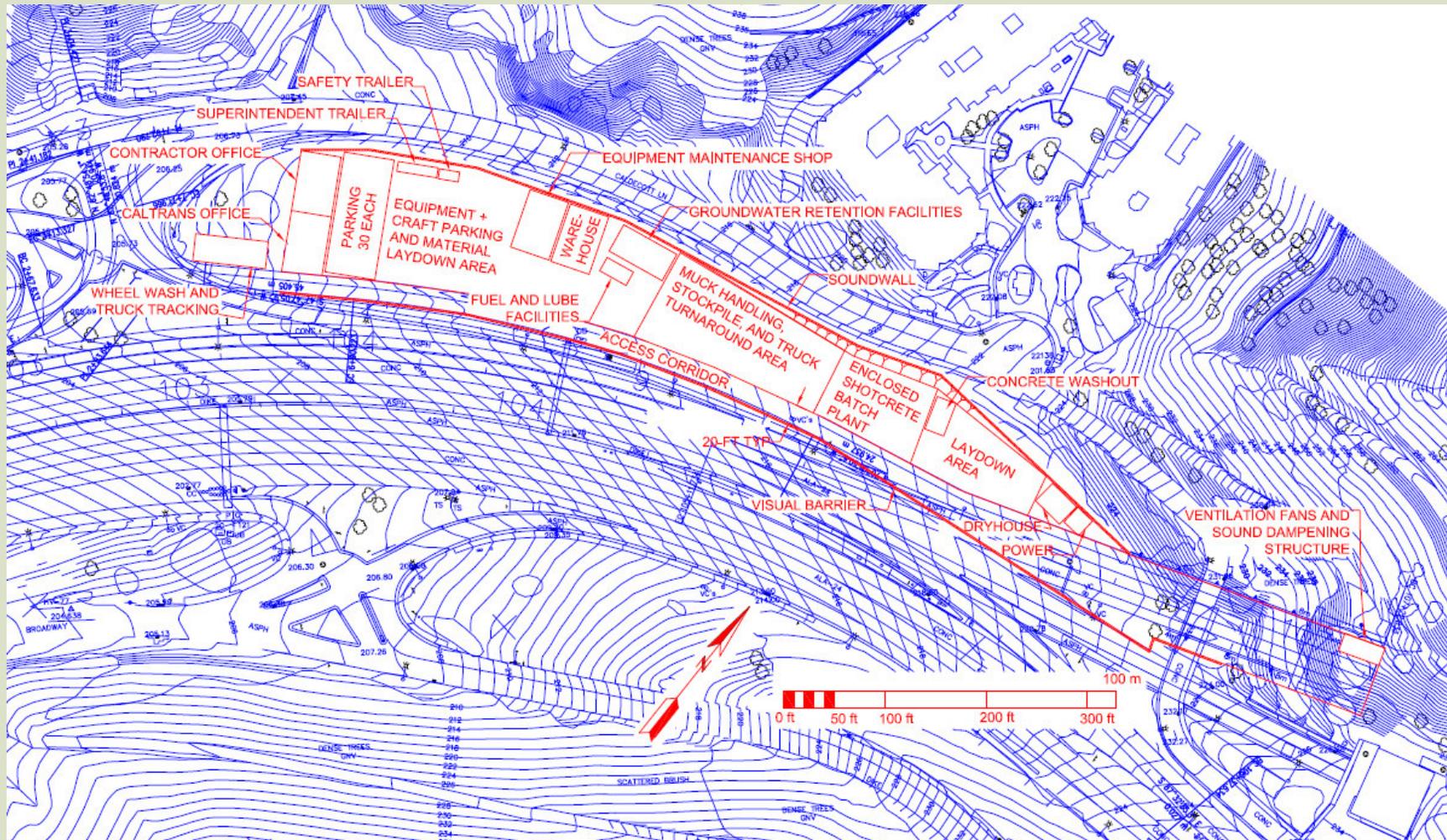
Tunnel Excavation

- Tunnel excavation primarily by roadheader

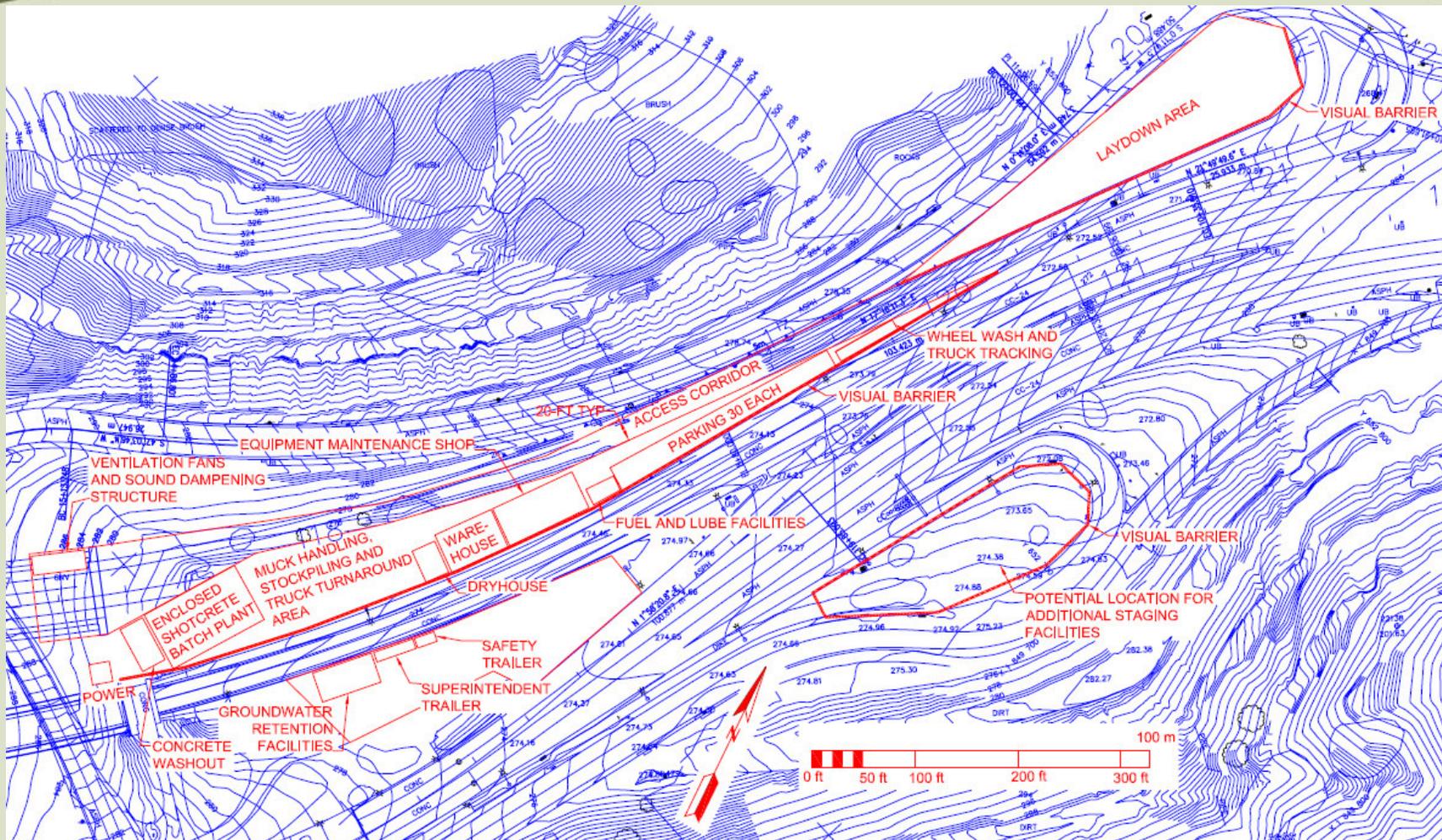


Access Tunnel 9-20-04
Setup Alpine Roadheader

Conceptual Construction Staging Area - West



Conceptual Construction Staging Area - East



West Portal Staging Area

Requirements:

- Level
- Minimum 1.5 acres
- Immediately adjacent to tunnel portal



Tunnel Construction Approach

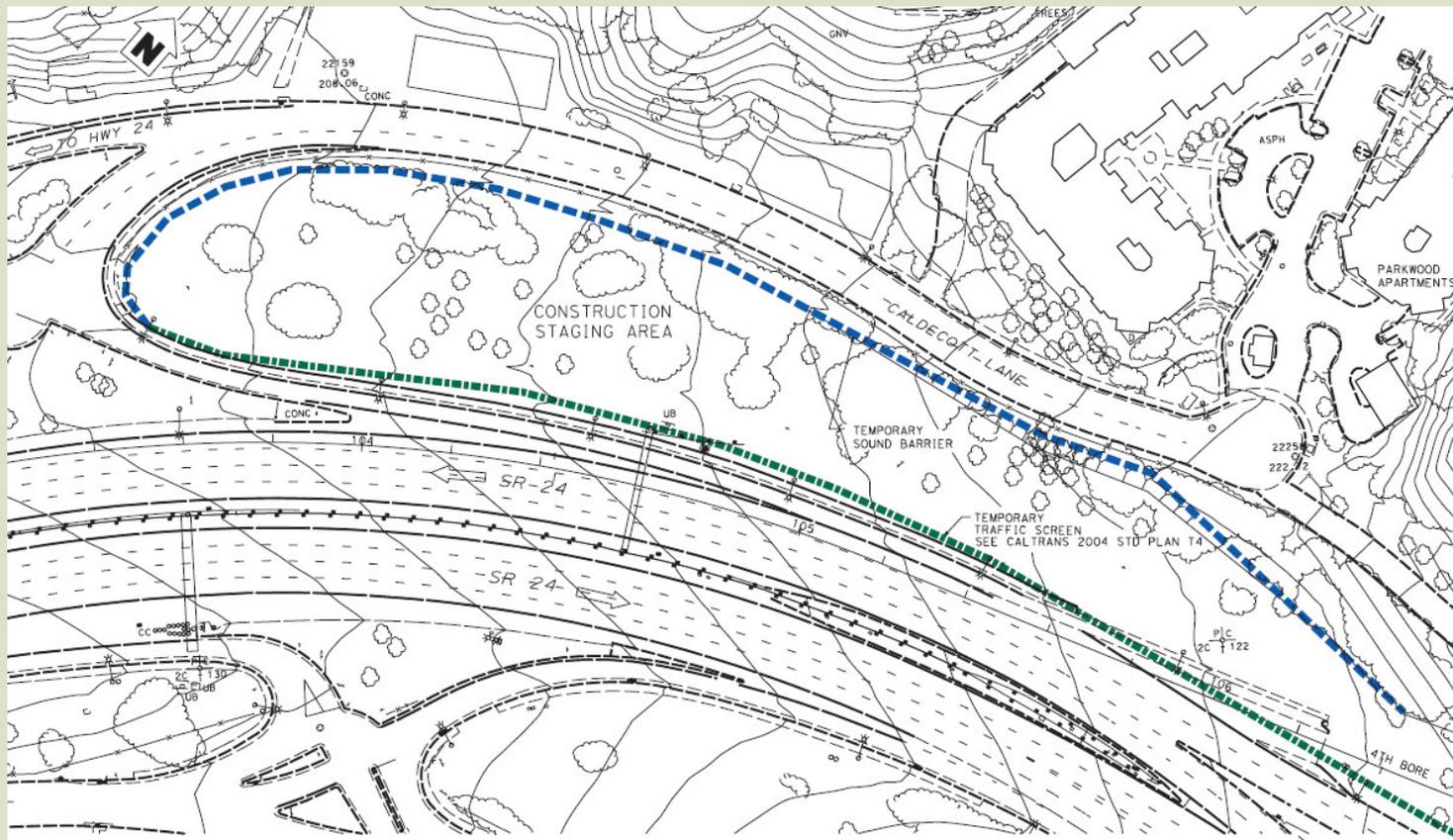


- Tunnel excavation
 - around-the-clock-construction activity
 - from both sides
- If construction is limited to one side
 - Increases project duration by 14 months
 - Increases construction cost by \$45 million
 - Increases risk for significant delays



Temporary Soundwall

- 1,000 feet long, 35-40 feet high
- Sound-isolating and sound-absorbing



Noise Abatement Measures



- Night time construction noise levels will be limited
- Off-hauling and blasting will not be allowed at night
- Concrete batch plant and fans will be enclosed
- Noise of construction activities will be monitored



Soundwall Simulation



Fire Safety



- Flammable vegetation will be cleared
- Construction equipment will be well maintained
- Smoking will be prohibited
- Construction sites will be wetted down on a regular basis to control dust, lessening the fire hazard
- Construction will not result in road closures that limit emergency egress



Traffic Mitigation Measures



- Construction personnel parking at remote locations or inside the staging areas
- Construction equipment will not be staged on Caldecott Lane
- Construction traffic will have minimal impact on Route 24



Handling of Spoils/Dust Control Measures



- Temporary stockpiles will be wet down to control dust
- Trucks hauling spoils from site will be covered
- Wheel washes will be provided
- Streets will be swept on a regular basis



Proposed Wall - No Treatment



Conceptual Wall Treatment #1



Conceptual Wall Treatment #2



Conceptual Wall Treatment #3



Conceptual Wall Treatment #4

