

ATTACHMENT 1

STREET NETWORK ELEMENTS FOR ALTERNATIVES A, B AND C

Existing Conditions - existing land use, traffic volumes, roadways, intersection lane and traffic control configurations.

Year 2025 – Alternative A) Pleasanton intersection capacity enhancements - Existing + Approved Pleasanton Land Development, plus regional 2025 development with buildout of the Livermore and Dublin General Plans.

Over the next 20 years, this alternative assumes that the following regional network element will be constructed:

- An HOV lane on eastbound I-580 from ~~Santa Rita Road~~**Hacienda** to Greenville Road. - *revised as a result of Triangle Study*
- Isabel at I-580 Interchange
- Isabel/Route 84 widening to 4 lanes from Pigeon Pass to Stanley, and 6 lanes from Stanley to I-580
- Dublin Boulevard extension to Livermore as 6-lane divided roadway with a 4-lane section through the unincorporated area.
- Jack London extension to El Charro Road as a 4-lane roadway.
- El Charro Road widening to 6 lanes from I-580 to Jack London
- East Dublin Properties roadway network
- New Livermore General Plan roadway network including only 2 lanes on First Street through downtown.
- **An HOV lane on north 680 from Milpitas to SR 84 – CalTrans planned improvement**

Pleasanton Roadway network changes assumed over the next 20 years:

- ~~23-17~~ New Traffic Signals at the following intersections:
 - Bernal Avenue at I-680 southbound ramps
 - Bernal Avenue at Kottinger Drive
 - Bernal Avenue at Main Street
 - Bernal Avenue at Nevada Street
 - ~~Busch Road at Ironwood Parkway~~ – *already constructed*
 - ~~Foothill Road at Castlewood Drive~~ – *in County jurisdiction*
 - Hopyard Road at Del Valle Parkway
 - Santa Rita Road at Francisco Street
 - Stoneridge Mall Road at Deodar Way
 - Stoneridge Mall Road at Embarcadero Court
 - Sunol Boulevard at Castlewood Drive
 - Sunol Boulevard at I-680 northbound
 - Sunol Boulevard at I-680 southbound
 - ~~Valley Avenue at Blackbird Drive~~ – *not compatible with community character*
 - ~~Valley Avenue at Boulder Street~~ – *already constructed*
 - Valley Avenue at Case/Junipero
 - ~~Valley Avenue at Crestline Road~~ – *not compatible with community character*
 - ~~Valley Avenue at Hansen Drive~~ – *not compatible with community character*

- Valley Avenue at Koll Center south
 - Valley Avenue at Paseo Santa Cruz north
 - Valley Avenue at Paseo Santa Cruz south
 - West Las Positas Boulevard at Muirwood Drive
 - West Las Positas Boulevard at Payne Road
- Significant intersection changes:
 - Bernal Avenue at Angela Street – right turn only from Angela during peak hours
 - Bernal Avenue at Meadowlark widening associated with Arroyo Del Valle bridge widening
 - Bernal Avenue at Puerto Vallarta – right turns only from Puerto Vallarta during peak hours
 - Bernal Avenue at Vineyard Avenue widening associated with Arroyo Del Valle bridge widening
 - First Street at Vineyard/Ray – convert east/west to protected/permissive left turn phasing
 - Foothill Road at Canyon Way – convert #1 southbound through into third left turn lane, restripe eastbound to create triple left turn, widen eastbound Canyon Way to receive traffic from three left turn lanes
 - Foothill Road at Deodar Way – remove crosswalk on Foothill
 - Foothill Road at Laurel Creek Way - remove crosswalk on Foothill
 - Foothill Road at Stoneridge Drive – unsplit east/west signal operations and convert the #1 southbound through into a third southbound left turn lane
 - Deodar Way – remove north crosswalk
 - ~~Gibraltar Drive at Chabot Drive – eliminate the north/south split phasing and east/west left turn arrows~~ – **change completed**
 - Hacienda Drive at I-580 eastbound – modify signal and striping to convert #2 left turn to a left/right option lane
 - Hacienda at Owens modifications for triple eastbound and southbound left turns and no crosswalk on north leg.
 - Hacienda Drive at West Las Positas Boulevard – unsplit north/south signal phasing
 - Hopyard Road at I-580 eastbound – modify signal to provide a eastbound right/northbound through overlap period
 - Hopyard Road at I-580 westbound – restripe the off-ramp to convert the #2 left turn lane into a left/right turn option lane
 - Hopyard at Owens for triple eastbound left turn, a new southbound right turn only lane, and a second westbound right turn only lane.
 - ~~Hopyard Road at Stoneridge Drive – restripe and modify signal to convert #1 northbound through lane into a third left turn lane~~ – **change completed**
 - ~~Johnson Drive at Providian Way – unsplit east/west signal phasing and remove north/south left turn arrows~~ – **change completed**
 - Main Street at Ray Street – add protected/permissive southbound left turn arrows
 - Santa Rita Road at Black Avenue – prohibit traffic from exiting the Santa Rita frontage road opposite Black Avenue. Reroute this traffic to the new signal at Francisco Street. Eliminate the north crosswalk at the intersection.
 - Santa Rita Road at Pimlico/I-580 – eliminate the south crosswalk

- Santa Rita Road at Stoneridge Drive – restripe and modify signal to convert #1 northbound through into a third left turn lane
 - Santa Rita at Valley widening for triple southbound and double westbound left turns
 - Stanley Boulevard widening east of Main Street to accept double southbound left from Main Street.
 - Stoneridge Drive at Springdale Avenue
 - Stoneridge Drive at I-680 northbound – modify signal to allow a northbound right/westbound through overlap period
 - Sunol Boulevard at Sycamore Road – implement constrained gateway policy that provides adequate green time for east, west and southbound traffic in the afternoon, while allowing LOS F conditions northbound.
 - Valley Avenue at Koll Center Parkway north – unsplit east/west signal phasing
 - Vineyard Avenue at Ruby Hill Boulevard – continue constrained gateway policy that limits westbound through traffic in the morning to 200 vehicles per hour even though this creates LOS F conditions.
 - West Las Positas Boulevard at Hopyard Road – construct third westbound left turn lane
- Roadway Changes:
 - Bernal Avenue widening west, including Bridge over Arroyo Del Valle
 - Bernal Avenue widening east, including Bridge over Arroyo Del Valle
 - ~~Castlewood at Foothill to provide a short second westbound lane~~ – *County jurisdiction*
 - Stanley Boulevard widening east of Bernal Avenue to allow three eastbound through lanes at intersection
 - Happy Valley Bypass Road
 - I-680 southbound on-ramp widening from Bernal Avenue to accommodate two westbound left turn lanes
 - ~~Spring Street one-way westbound between First Street and Railroad Street~~ – *no longer under consideration*
 - ~~Valley Avenue extension to Case/Junipero~~ – *will be completed by end of 2006*
 - Valley Avenue widening north of Bernal to create a new southbound right turn only lane and accommodate three eastbound left turn lanes

Year 2025 Alternative B) – Pleasanton intersection and roadway capacity enhancements - Existing + Approved Pleasanton Land Development, plus regional 2025 development with buildout of the Livermore and Dublin General Plans.

This traffic forecast included all of the Group 2 changes at intersections to reduce congestion, and added several additional intersection changes, roadway widenings and roadway extensions included in the 1996 General Plan. Roadway widenings that were found to contribute very little to congestion relief were omitted from this run. The Stoneridge Extension and the West Las Positas Interchange were also omitted from this model run.

1996 General Plan Roadway Network changes assumed over the next 20 years in this alternative traffic model run:

- Roadway extensions:

- El Charro Road extension to Stanley Boulevard as a 4-lane divided roadway
- Nevada Street extension to First Street with one lane in each direction and a 2-way left turn lane
- ~~Rose Avenue extension to Valley Avenue with one lane in each direction and a 2-way left turn lane~~ – **County right of way required which is not available**
- Roadway widening:
 - Bernal Avenue between ~~Foothill Road~~**Meadowlark** and I-680 – 4-lane divided roadway
 - **Bernal Avenue between Meadowlark and Foothill – 3 lane roadway – based on decision made regarding configuration of new bridge**
 - Bernal Avenue between I-680 and Valley Avenue – 6-lane divided roadway
 - ~~Bernal Avenue between Sunol/First and Independence Drive – 4 lane divided roadway~~ – **incompatible with neighborhood character**
 - ~~Bernal Avenue between Angela Street and Nevada Street – 4 lane divided roadway~~ – **incompatible with neighborhood character**
 - Busch Road between Valley Avenue and El Charro Road – 4-lane divided roadway
 - Foothill Road between I-580 and Stoneridge Drive – 6-lane divided roadway
 - ~~Foothill Road between Stoneridge Drive and Muirwood Drive South – 4 lane divided roadway~~ – **No further widening of Foothill Road planned**
 - ~~Hopyard Road between Valley Avenue and Division Street – 4 lane divided roadway~~ – **incompatible with neighborhood character**
 - ~~Old Santa Rita Road south of Rosewood Drive – 4 lane divided roadway~~ – **not needed**
 - ~~Rosewood Drive west of Santa Rita Road – 6 lane divided roadway~~ – **not needed**
 - Stanley Boulevard between Main Street and First Street - one lane in each direction and a 2-way left turn lane
 - ~~Vineyard Avenue from Bernal Avenue to 4,000 feet east of Bernal Avenue – 4 lane divided roadway~~ – **2-lane design approved by City Council**
 - ~~West Las Positas Boulevard between Foothill Road and Payne Road – 4 lane divided roadway~~ – **not needed without interchange**
 - ~~West Las Positas Boulevard east of Fairlands Drive – 4 lane divided road~~ – **not needed**
- 1996 General Plan Roadway Network changes NOT assumed over the next 20 years in this alternative traffic model run:
 - Dublin Canyon Way – not widened to 4-lane divided road
 - Stoneridge Drive not widened to 6-lanes east of Santa Rita Road and not extended to El Charro Road or Staples Ranch Area
 - West Las Positas Interchange at I-680 not assumed to be constructed.
- ~~3-2~~ New Traffic Signal controlled intersections:
 - Busch Road at El Charro Road
 - El Charro Road at Stanley Boulevard
 - ~~Valley Avenue at Rose Avenue~~ – **no Rose Avenue extension**
- Significant intersection changes:
 - Bernal Avenue at Case/Old Bernal – widen west side of street to add a southbound right turn only lane on Old Bernal Avenue

- o ~~Gibraltar Drive at Willow Road—eliminate east/west left turn arrows – *change completed*~~
- o Valley Avenue at Busch Road – widen Busch Road to provide a second right turn lane to Valley Avenue
- o Bernal Avenue at Valley Avenue – convert eastbound right turn only lane into a through/right option lane

ALTERNATIVE C IS NOT PART OF THE “WORKING DRAFT” CIRCULATION NETWORK

Year 2025 Alternative C) Pleasanton intersection and roadway capacity enhancements - Existing + Approved Pleasanton Land Development, plus regional 2025 development with buildout of the Livermore and Dublin General Plans.

This traffic forecast included all of the Group 3 changes at intersections to reduce congestion, and all of the roadway widening and extensions. In addition, this traffic model forecast assumes the extension of Stoneridge Drive to El Charro Road and the construction of the West Las Positas Interchange.

Additional 1996 General Plan Roadway Network changes assumed over the next 20 years in this alternative traffic model run:

- Roadway Projects:
 - o Stoneridge Drive extension to El Charro Road as a 4-lane divided roadway
 - o The Las Positas Boulevard Interchange at I-680
 - o Important note: This model run does not assume the westbound I-580 flyover to southbound I-680. This project will likely eliminate some freeway connections at the Stoneridge Drive Interchange and would likely increase traffic using the interchange at West Las Positas Boulevard.
- 1996 General Plan Roadway Network changes NOT assumed over the next 20 years in this alternative traffic model run:
 - o Dublin Canyon Way – not widened to 4-lane divided road
- Significant intersection changes:
 - o Bernal Avenue at Vineyard/Tawny – Install protected/permissive north/south left turn arrows
 - o Hopyard Road at West Las Positas Boulevard – convert the #1 northbound through lane into a third northbound left turn lane
 - o Santa Rita Road at Stoneridge Drive – maintain the existing northbound double left turn and three through lanes, and convert the existing #1 eastbound right turn lane into a third through lane
 - o Stoneridge Drive at West Las Positas Boulevard – convert #3 northeast bound through lane into a right turn only lane