

The California
Regional Broadband Consortia's

Recommended
Strategic Broadband Corridors

Final Report - December 31, 2019



Prepared By:

Valley Vision, Connected Capital Area
Broadband Consortium and
Tom West, North Bay/North Coast Consortium

With Funding Support From:

The California Emerging Technology Fund

and Technical Support From:

Geographical Information Center,
California State University Chico

In Partnership With:

Regional Broadband Consortia
California Department of Transportation
California Transportation Commission
California Department of Technology
California Broadband Council
California Public Utilities Commission
California Forward
California Association of Councils of Government (CalCOG)

INTRODUCTION

This document provides recommendations to the California Department of Transportation (CalTrans) and the California Transportation Commission (CTC) on transportation corridors that are priorities for strategic development of joint use/dig once projects for needed broadband infrastructure and deployment, through collaboration with the State's network of Regional Broadband Consortia funded by the California Public Utilities Commission (CPUC) and the statewide network of Councils of Government (COGs) and local transportation agencies.

The Strategic Broadband Corridors Project (SBC Project) was initiated in September 2018 [at a meeting on Strategic Corridors hosted by the California Department of Technology and the California Broadband Council](#) to support implementation of the statutory "Dig Once" Policy (AB 1549 legislation) that required **Caltrans** to develop guidance to facilitate deployment of wired broadband in State rights-of-ways (ROW). The meeting brought together representatives from State Agencies, Internet Service Providers (ISPs), Regional Broadband Consortia, transportation organizations, and other organizations to develop approaches that would build upon and advance "Dig Once" policies to inform the CTC Draft Comprehensive Multimodal Corridor Planning Guidelines and CalTrans Draft Corridor Planning Guidebook.

At the meeting, stakeholders discussed the concept of "strategic corridors" to support broadband deployment in which conduit would be installed in conjunction with transportation projects even if no ISP or public agency would be in the trench at the time of construction. Caltrans highlighted its next steps in "Dig-Once" policy implementation, including the need to identify these so-called "corridor gaps." Representatives of the Regional Broadband Consortia volunteered to work together to develop regional lists and a statewide map of "Strategic Broadband Corridors" that CalTrans and the CTC could consider for inclusion. This was the origin of the SBC Project, the ultimate goal of which was to coordinate the planning and development of broadband and transportation projects with Caltrans and the CTC.

Following the meeting, the Broadband Consortia, led by Tom West of the North Bay/North Coast Consortium and Martha Van Rooijen of the Inland Empire Regional Broadband Consortium, identified a list of SBCs in an initial draft report in November. The Geographical Information Center (GIS) at the Center for Economic Development, California State University Chico and manager of the Northeastern California Connect Consortium and the Upstate California Broadband Consortium, providing a statewide map depicting the corridors. Following a series of meetings and communications with State Agency officials and the California Broadband Council through the fall, 2018, and revisions of the recommended corridors, in

December 2018 the CTC adopted the recommended “Strategic Broadband Corridors” report as part of its Guidelines and Caltrans also accepted them.

At the March 2019 California Broadband Council meeting, Caltrans provided an update on the identification of strategic corridors and the Dig Once program. The absence of existing opportunities and excess capacity was noted for the rural areas; the need for better dialogue with the industry was identified; and it was stated that Caltrans was working with the CPUC on next steps and industry engagement.

At a Digital Inclusion Roundtable hosted in June of 2019 in Sacramento by CETF and California Forward (CaFWD), Caltrans noted that while the draft report was a promising first step, it was overly broad. It listed *almost every major transportation corridor in California* and did not indicate which “strategic broadband corridors” might be most important for Caltrans to consider. It was recommended that the Consortia further narrow the list by choosing three “priority” corridors per region.

Valley Vision, manager of the Connected Capital Area Broadband Consortium, and its partners — CETF, CalCOG, CaFWD, and California State University Chico along with North Bay/North Coast Consortium — agreed to coordinate next steps. These included:

- Obtaining the list of updated strategic broadband corridors from the Broadband Consortia, with updating mapping of the corridors statewide by Chico State, and preparing the next version of the report;
- Convening of a Strategic Broadband Corridors Planning Session in September 2019 at Valley Vision in Sacramento attended by state agencies, CALCOG Regional Transportation Agencies Members, the Consortia, and ISPs to discuss issues and barriers to implementation of Dig Once Policies, including the need for permitting consistency across Caltrans Districts and need for clarification of transportation funding eligibility for broadband projects, and updates on the process of information sharing between Caltrans and the CPUC on mapping of existing broadband connectivity (accounting for confidentiality issues), among other areas;
- Discussion with Rural Counties Task Force members convened by CalCOG in September 2019 to discuss corridor projects and deployment issues, joint use and funding;
- Provision of SHOPP (State Highway Operation and Protection Program) project information by CalCOG for alignment with strategic corridors mapping.
- [Presentation of a status report at the October 2019 California Broadband Council Meeting](#), which highlighted opportunities for dig once/joint use policies and coordinated planning across agencies and investments; funding eligibility for broadband

infrastructure deployment; permitting challenges and variations across Caltrans districts; constraints of CASF funding and potential for alignment with other state infrastructure investments; need for increased collaboration between broadband consortia and regional transportation agencies/councils of governments; and need for continued consultation and collaboration with the California Broadband Council and state agencies.

- Presentation of an update at a broadband-focused session at the California Economic Summit in November 2019 hosted by CA Forward, and discussion of policy recommendations for Broadband for All (Californians), which the Governor announced at the Summit; and
- Meeting at the Governor’s Office in December to discuss Broadband for All initiatives, including Strategic Broadband Corridors, with the California Department of Technology, CETF, CA Forward, several consortia and other partners.

Throughout this process, several of the Regional Broadband Consortia participated in the Strategic Broadband Corridors Task Force convened by the California Broadband Council to assist with moving the process forward, including coordination with Caltrans and the CPUC. Caltrans initiated a coordination process on Dig Once design guidelines and broadband projects, review of California Encroachment process and dialogue with industry representatives and continued to work with the CPUC to develop an MOU for data sharing and project collaboration. Within the regions, the Broadband Consortia continued to work with Caltrans district offices and COGs/ transportation agencies to advance joint use/dig once policies and projects. The work continues into 2020.

This report provides the updated list of the recommended strategic broadband corridors, with three priority routes identified per region.

1. Identifies the three priority corridors for each region. The legend for priority corridors is:

Priority #1 Corridor
Priority #2 Corridor
Priority #3 Corridor

2. Updates the Statewide Map that includes all Strategic Corridor (See: Map 1 on page 15).
3. Adds a Statewide Map that includes only Priority Strategic Corridors (See: Map 2 on page 16).

STRATEGIC CORRIDORS BY REGIONAL BROADBAND CONSORTIA AREA

- I. **REDWOOD COAST CONSORTIA (RCCC)**
 - Del Norte, Humboldt, Trinity Counties
- II. **NORTH BAY NORTH COAST BROADBAND CONSORTIUM (NBNBCB)**
 - Marin, Mendocino, Napa and Sonoma Counties

PRIORITY STRATEGIC ROUTES	
Route	Description
CA-1	Starting at US-101 at Leggett (Mendocino County), going along the coast to Bay Bridge (Marin County).
CA- 128-101- 253-128	Rte 128 starting in Winters (Yolo County) thru Napa County to Geyserville (Sonoma County); Rte 101 Geyserville to Ukiah (Mendocino County); Rte 253 Ukiah to Boonville; and Rte 128 Boonville to Albion connecting to Rte 1.
US-101	Starting at the Oregon Border (Del Norte) going to in the Bay Area (200 Paul Street, San Francisco) through the counties of: <ol style="list-style-type: none"> 1. Del Norte (where it would interconnect with the existing fiber on US 199 going from Crescent City to the Oregon Border); 2. Humboldt (where it would interconnect with existing fiber on the CA 36 corridor and CA 299 fiber corridor currently being implemented. Both these routes go east to interconnect with fiber on i-5); 3. Mendocino; 4. Sonoma; and 5. Marin counties.

OTHER STRATEGIC ROUTES	
Route	Description
CA-3	Callahan to Douglas City (Rte 36)
CA-20	Starting at US-101 at Calpella (Mendocino County) and going east to Williams (Colusa County) where it interconnects with fiber on I-5.

CA 116 & 12	Starting at US-101 at Rohnert Park (Sonoma County) going east through Napa County to Suisun City (Solano County) to interconnect with fiber on I-80.
CA 29 & 53	Starting at CA-12 in Napa County going north to interconnect with the CA-20 in Clearlake (Lake County).
CA-162	Develop a non-diverse spur between US-101 corridor in Longvale and Covelo (Mendocino County).
CA-20	Go west between Willits on US-101 and Fort Bragg and interconnect to CA-1 (Mendocino County).
CA-116 & 12	Start on US-101 in Rohnert Park go west on CA-116 to Sebastopol and then on CA-12 to Bodega Bay to interconnect to the CA-1 (Sonoma County).

III. NORTHEASTERN CALIFORNIA CONNECT CONSORTIUM (NECCC)

- Siskiyou, Modoc-Lassen, Shasta, Tehama-Butte and Plumas Counties

IV. UPSTATE CALIFORNIA CONNECT CONSORTIUM (UCCC)

- Glenn, Colusa and Lake Counties

PRIORITY STRATEGIC ROUTES	
Route	Description
1-5	Sacramento North to Oregon border.
CA-20	Yuba City to US 101.
CA-44	Entire route.
CA-29	Rutherford North to Upper Lake.
CA-139	Entire Route.

OTHER STRATEGIC ROUTES	
Route	Description
CA-161	Entire route.
CA-162	From Jct. of route 99 to Oroville.
CA-172	Entire route.
CA-175	Middletown north to Jct. with route 29.
CA-191	Entire route.
CA-299	Redding East to Alturas.
CA-3	Yreka South to Callahan.
CA-32	Entire route.
CA-36	Red Bluff East to Johnstonville.
US-395	Nevada border North to Oregon border.
I-505	From Jct. of I 5 to Winters.
CA-53	From Jct. of route 20 to Lower Lake.

CA-70	Oroville East to Jct. of US 395.
CA-89	Old Station North to Jct. of I-5.
CA-96	From Jct. of I 5 to Somes Bar.
US-97	Weed to Jct. of route 161.
CA-99	Red Bluff to Woodland.
CA128	From Jct. of 29 to Winters.

V. EAST BAY BROADBAND CONSORTIUM (EBBC)
- Alameda, Contra Costa and Solano Counties

PRIORITY STRATEGIC ROUTES	
Route	Description
CA-12	Entire Solano County from west border through Fairfield and Rio Vista to Lodi (San Joaquin County).
CA-4	Entire Contra Costa County from I-80 through many under/unserved communities to Stockton (San Joaquin County).
CA-24	Oakland to Walnut Creek.

OTHER STRATEGIC ROUTES	
Route	Description
I-880 & 80	From the southern border of Alameda County through Contra Costa and Solano Counties into Sacramento County.
I-680	From the southern border of Alameda County to I-80 in Solano County.
I-580	Oakland to I-5.

VI. CONNECTED CAPITAL AREA BROADBAND CONSORTIUM (CCABC)
- Sacramento, Sutter, Yolo and Yuba Counties

PRIORITY STRATEGIC ROUTES	
Route	Description
I-5	Start south border of Sacramento County and go northwest to the northern border of Yolo County.
CA-113	From I-80 in Davis (Yolo County) north to Tudor (Sutter County) to interconnect with CA-99.
CA-45	From Knights Landing (Yolo County) northwest to Meridian on CA-20 (Colusa County).

OTHER STRATEGIC ROUTES	
Route	Description
I-505	Start at I-80 (Solano County) and go northeast through Yolo County and interconnect with I-5 north of Zamora.

CA-99	From I-5 (Sacramento County) to Yuba City (Sutter County) to interconnect with CA-20.
CA-20	Along the southern border of Sutter Buttes Park (Sutter County).
CA-84	From Rio Vista (Solano County) on CA-12 to West Sacramento (Yolo County).
CA-160	From Rio Vista (Solano County) on CA-12 to downtown Sacramento (Sacramento County).
CA-104	From CA-99 (Sacramento County) east to eastern border of the County.
CA-220	From CA-84 (Solano County) east to CA-160 (Sacramento County) County).
CA-16	From Rancho Murrieta Golf and Country Club (Sacramento County) east to CA-49 (Amador County).
CA-65	From CA-70 (Yuba County) southeast to Lincoln (Placer County).
E-20	From the E-21 Jct. east to CA-49 Jct. (Yuba County).
E-21	From the northern border of Yuba County south to Collin's Lake (Yuba County).
E-49	Northeast corner of Yuba County.

VII. GOLD COUNTRY BROADBAND CONSORTIUM (GCBC)

- El Dorado, Nevada, Sierra, Placer and Alpine Counties

PRIORITY STRATEGIC CORRIDORS	
Route	Description
I-80	East from Roseville to Nevada Line (Nevada, Sierra and Placer counties).
CA-20	East and West out of Grass Valley (Nevada County).
CA-89	North from Truckee (Nevada County) to Sierraville, Satley, Calpine (Sierra County) and then continue to CA-70 (Plumas County).

VIII. GOLD COUNTRY BROADBAND CONSORTIUM (GCBC)

- Tahoe Basin Project

PRIORITY STRATEGIC CORRIDORS	
Route	Description
US 50	El Dorado County and City of South Lake Tahoe
CA-89	South from Truckee to Tahoe City and on south to CA-50 at South Lake Tahoe.
CA-267	Truckee to Kings Beach

PRIORITY STRATEGIC CORRIDORS	
Route	Description

CA-49	North from Nevada City (Nevada County) to Loyalton (Sierra County).
CA-49	South from Nevada City to Placerville (El Dorado County) and then continue on to County line.
CA-89	From South Lake Tahoe to CA-88 in Sorenson (Alpine County).
CA-20	East from Nevada City to intersect with 1-80 at Emigrant Gap and then on I- 80 to Truckee to CA-89 and then south to South Lake.
CA-267	South from Truckee to Kings Beach.
CA-28	From Kings Beach to Route CA-89 to Tahoe City.
US-50	East from El Dorado County border to the Nevada Line, through Twin Bridges.
CA-88	Jackson (Amador County) to Route CA-89 (Alpine County).
CA-4	East from Angels Camp (Calaveras County) to Route CA-89.
CA-174	South from Route CA 49 to Colfax on I-80.
CA-193	From Cool on CA-49 south to Placerville on US-50.
CA-65	Rocklin to Roseville off 1-80 to Lincoln to county border.

IX. CENTRAL SIERRA CONNECT BROADBAND CONSORTIUM (CSC)

- Amador, Calaveras, Tuolumne, Mariposa and Alpine Counties

PRIORITY STRATEGIC CORRIDORS	
Route	Description
CA-49	Starting just north of Nipinnawasee running north through Mariposa, Tuolumne, Calaveras and Amador counties to just north of Plymouth.
CA-108	From Northeast of Knights Ferry running through Tuolumne County to Dardanelle.
CA-88	Start Camanche Village and go through Amador County northeast to US-395 at Minden.
CA-4	From Telegraph City running northeast through Calaveras County to Bear Valley.

PRIORITY STRATEGIC CORRIDORS	
Route	Description
CA-26	From Rancho Calaveras to West Point.
CA-12	From Wallace to San Andreas.

X. INYO-MONO BROADBAND CONSORTIUM (IMBC)

- Inyo and Mono Counties

XI. EASTERN SIERRA CONNECT REGIONAL BROADBAND CONSORTIUM (ESCRBC)

- Kern County

PRIORITY STRATEGIC CORRIDORS	
Route	Description
CA-168	From Bishop to the community of Aspendell.
CA-136	From the Jct. of US 395 to Keeler.
CA-190	From the Jct. of US 395 to Death Valley National Park.

PRIORITY STRATEGIC CORRIDORS	
Route	Description
CA-120	From Lee Vining on US 395 west to Mono County line (at Yosemite National Park).
CA-203	From The Village in Mammoth Lakes into Reds Meadow/Devils Postpile.
CA-127	I-15 to Furnace Creek.
CA-178	Inyokern to Kernville.
CA-178	Kernville to CA-99.

XII. SAN JOAQUIN VALLEY REGIONAL BROADBAND CONSORTIUM (SJVRCB)

- San Joaquin, Stanislaus, Merced, Madera, Fresno, Kings, Tulare and Kern Counties

PRIORITY STRATEGIC CORRIDORS	
Route	Description
CA-140	From Yosemite Village west through Mariposa and Merced to I-5.
CA-108	From CA-99 Modesto to CA-49 Jamestown
CA-65	From Exeter south to CA-99 In Bakersfield.

PRIORITY STRATEGIC CORRIDORS	
Route	Description
CA-99	From the northern border of San Joaquin County to I-5 in Kern County.
I-5	From the northern border of San Joaquin County to the southern border of Kern County.
I-205	From I-580 to I-5
CA-120	From I-5 east through Manteca to Yosemite Village to CA-140 and CA-41.
CA-12	From I-80 Fairfield to CA-49 Jackson
CA-4	From Oakley to CA-49 Angels Camp

CA-41	From Yosemite Village, CA-140 south through Fresno to Kettleman City on I-5.
CA-43	From Selma on CA-99 south to I-5 in Kern County.
CA-198	From I-5 east through Lemoore, Hanford, Visalia, Sequoia NP, and Kings Canyon NP to CA-180.
CA-180	From Mendota east through Fresno to CA-198 in Kings Canyon NP.
CA-152	From I-5 east to Fairmead on CA-99.

XIII. CENTRAL COAST BROADBAND CONSORTIUM (CCBC)

- Monterey, Santa Cruz and San Benito Counties

PRIORITY STRATEGIC CORRIDORS	
Route	Description
US-101	Through Monterey and San Benito Counties from Gilroy (Santa Clara County) to Paso Robles (San Luis Obispo County).
CA-25	Through San Benito County from Gilroy (Santa Clara County) to CA-198.
CA-1	Through Santa Cruz and Monterey Counties (including Swanton Road loop).

PRIORITY STRATEGIC CORRIDORS	
Route	Description
CA-17	Through Santa Cruz County from Los Gatos to Santa Cruz.
CA-152	Through Santa Cruz County from Gilroy (Santa Clara County) to Watsonville.

XIV. BROADBAND CONSORTIUM OF THE PACIFIC COAST (BCPC)

- San Luis Obispo, Santa Barbara and Ventura Counties

PRIORITY STRATEGIC CORRIDORS	
Route	Description
CA150	From Carpinteria on US-101 east to Santa Paula on CA-126.
CA-154	From US-101 north of Los Olivos southeast to Santa Barbara.
CA-41	From Morro Bay on CA-1 northeast to Kettleman City (Kings County) on I-5.

PRIORITY STRATEGIC CORRIDORS	
Route	Description
US-101	From northern border of San Luis Obispo County south to the southern border of Ventura County.
CA-1	From northern border of San Luis Obispo County south to the southern border of Ventura County.
CA-46	From Cambria on CA-1 east to Lost Hills (Kern County) on I-5.

CA-58	From Santa Margarita on US-101 east to Buttonwillow (Kern County) on 1-5.
CA-229	From San Miguel south to Garden Farms to interconnect with CA-58.
CA-166	From Guadalupe on CA-1 east to Cuyama and Maricopa (Kern County).
CA-135	From Orcutt southeast to Los Alamos.
CA-246	From Lompoc east to Santa Ynez.
CA-12	From the CA-154 south along the backside of the cities of Santa Barbara, Montecito and Carpinteria to the CA-150.
CA-176	From Santa Maria south to the CA-154.
CA-33	From Ventura north to Ojai on CA-150.
CA-33	From Ojai east through the mountains to the county line, CA-166, and then north.
CA-126	From Ventura east to Santa Clarita (Los Angeles County) on I-5.
CA-118	From Saticoy on CA-126 east to CA-118 in Moorpark.
CA-23	From Fillmore and CA-126 to CA-118 in Moorpark.

XV. INLAND EMPIRE REGIONAL BROADBAND CONSORTIUM (IERBC)

- Riverside and San Bernardino Counties

PRIORITY STRATEGIC CORRIDORS	
Route	Description
CA-247	San Bernardino County.
CA-62	Riverside and San Bernardino Counties.
CA-18	San Bernardino County.

PRIORITY STRATEGIC CORRIDORS	
Route	Description
I-10	Riverside and San Bernardino Counties.
I-15	Riverside and San Bernardino Counties.
I-40	San Bernardino County.
I-215	Riverside and San Bernardino Counties
E-220 (Proposed)	Planned extension between Victorville and Palmdale in San Bernardino County.
CA-38	San Bernardino County.
CA-60	Riverside County.
CA-66	San Bernardino County.
CA-74	Riverside County.
CA-78	Riverside County.
CA-79	Riverside County.
CA-86	Riverside County.
CA-91	Riverside County.

CA-71	Riverside County. Riverside County from CA-91 to I-210
CA-111	Riverside County.
CA-127	San Bernardino County.
CA-138	San Bernardino County.
CA-210	San Bernardino County.
CA-243	Riverside and San Bernardino Counties.
CA-371	Riverside County.
US 95	Riverside and San Bernardino Counties.
I-15	Nevada Stateline to I-210.
US-395	From CA-58 in Kramer south to I-15.

XVI. SOUTHERN BORDER BROADBAND CONSORTIUM (SBBC)
- San Diego and Imperial Counties

PRIORITY STRATEGIC CORRIDORS	
Route	Description
I-8	Starting off in Winterhaven on the Arizona border running west through Imperial County and ending in San Diego County.
I-805 & I-15	In San Diego County that intersect with the CA-163, CA-125, and CA-54.
CA-98 & 7	Running along the border with Mexico, in Imperial County.

PRIORITY STRATEGIC CORRIDORS	
Route	Description
CA-78	Starting off Blythe (San Bernardino County going west through Imperial County and ending in Escondido (San Diego County on I-15; it interconnects with the CA-86, CA-111, and CA-115 in Imperial County.
CA-111 & 115	In Imperial County in very rural areas of the county.
I-5	On the coast (San Diego County), interconnecting the CA-56, CA-78 and CA-76.
CA-52, 54, 125 94	All intersect in San Diego County.

Note: Los Angeles County Regional Broadband Consortium did not participate at this time. San Francisco, San Mateo, Santa Clara and Orange counties are not represented by a consortium.

Map 1 and Map 2 follow.

Map 1 is an updated statewide map that was submitted November 1, 2018. It includes two changes. Route 1 in Mendocino and Sonoma counties was extended from Bodega Bay through Marin County to the Bay Bridge. Route 3 was added from Callahan to Douglas City.

Map 2 is a statewide map that shows only the three priority routes in each regional consortium region, prepared in September 2019 by Chico State.

CA Regional Consortia - Strategic Broadband Corridors



CA Regional Consortia - Strategic Broadband Corridor Priorities

