BART Breaks Ground

The official date for the start of construction was June 19, 1964, with President Lyndon B. Johnson presiding at the groundbreaking for the laying of 4.4 miles of track between Concord and Walnut Creek.

The Heart of BART

The heart of BART lies in a tube in a trench, 135 feet below the surface of San Francisco Bay at its deepest point.

The Transbay Tube is not only an engineering achievement. It symbolizes the very essence of the BART concept. The concept of an under-the-Bay tube had been around for many vears. In October, 1920, Major General George W. Goethals, the builder of the Panama Canal, made his public proposal for building such a tube "in order to solve the acute transportation problems facing San Francisco and the East Bay communities." Goethals' proposal envisioned a two-level tribe to accommodate automobiles, trucks and trains. The alignment of Goethals' tube is almost exactly the same as the align-

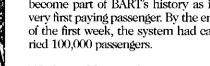
ment taken by BART's Transbay Tube. The tube consists of 57 steel and concrete sections, constructed on the west side of the Bay and floated to a spot above their designated position on the floor of the Bay. The sections were lowered into place into a trench. 70 to 100 feet deep, which was dredged out of the Bay bottom between Oakland and San Francisco. The first section was placed in position in February 1967, and the last in April 1969.

lion, every dime coming from automobile tolls on state bridges crossing

knew they would not have enough money to complete the system as

consideration, the Legislature granted by authorizing the levy of a half-cent sales tax in the BART counties. BART projected sales-tax revenue.

began to be available for the project. Of the \$160 million base cost of



Puture rider compares his mode of trans-

The first prototype car was delivered turer, saddled with a nine-week strike and other delays, fell a full year behind. its delivery schedule.

which was on display in 1969.

Opening Day

September 11, 1972, was a great v in the history of the Bay Area as BART first opened the doors for service of the nation's shiny new transit

The public had already had a dimpse of the system during its development, the award-winning architecture of its stations, the linear park along portions of its aerial right-of-way, vorks of art commissioned to bring a certain richness to the system's interiors, and the Buck Rogers look to the coming off the assembly line. transit cars.This was the beginning of a new era, a renaissance of rail rapid transit. And now, at last, after a rocky road to completion, it was ready to be

The Transbay Tube cost \$180 milan exciting time. Now, on this warm, sunny day in September, large crowds gathered at BART's Lake Merritt Station in New Costs

In 1966, the District's Directors 26 miles of track from Fremont in designed in 1962 and later modified to MacArthur Station in North Oakland. meet the requirements of local comThe crowds were there to ride the new a maximum effort In April 1969, after three years of

the District's request for \$150 million hand for the new system's launching. was able to issue bonds against the at the time, B. R. Stokes, declared the At the same time, federal funds

BART's 450-car fleet, 64 percent was fare gate at the Lake Merritt Station eventually funded by federal grants. and walked through into the station to

very first paying passenger. By the end of the first week, the system had car-

morning was not just a local event. Members of the media from across the nation and around the world were on hand with local journalists to witness and record the occasion. One local newspaper summed it all up with a the system today. It was an aftercartoon which showed BART peaking thought, paid for by the local business out sheepishly from behind a curtain. community, redevelopment money The caption read: The Whole World is and some money from HUD. It is hard Watching, And so it was, After all, BART was the first all-new rail rapid transit system to be built in the United States in almost 60 years. It was in effect a new pioneer in ground transnical glitches. Gradually, after many portation And it would serve as the modifications to the equipment, the model for future new systems, such as system was performing well and ready those in Washington, D.C., and to move ahead with further improve-

Richard Nixon took a ride on the new gram, and replacing the seats, the intesystem, praising it highly as paving the rior walls and floors of the cars, and way to the future. He also announced making numerous modifications to a \$27 million grant to purchase addithe plan and facilities, BART invested tional ears. BART's initial order from over \$40 million in the program. But Rohr Corporation, the builder of the when the major modifications were BART Shines first BART cars, was for only 250 vehicles. BART ordered 200 more while calling the system the safest in the that BART truly showed the world cars from the first order were still

In January 1973, the Richmond line was opened, the Concord line in long-awaited direct service between came through with flying colors. The May 1973, the intra-San Francisco Richmond and San Francisco/Daly Bay Bridge had lost a section and was Service form Montgomery to Dalv City which in fact was the introduc- closed down, the Cypress Freeway of the year 2001, BART will have inveiled and put into service. It was City in November, 1973. Now BART had 33 stations open. But, everything closer together). That is, BART had San Francisco was closed, along with mile system to 43 stations and 103 wasn't smooth sailing for the fledgling solved many of its early technical the Embarcadero Freeway. For core miles of track with a fleet of nearly system, to say the least. The problems that now allowed it to oper-Bay Area commuters going between 700 transit cars offering, for the first September opening date had been at etrains at less than one station apart east and west bay, BART was the only Oakland and at 11 other stations along moved back twice during 1971 and instead of no less than one station game in town. Ridership went from 1972, and even getting the trains apart as had been the case.

Southern Alameda County to into operation on September 11 required system and to hear opening day from BART's engineers speeches from various dignitaries who and staff. had traveled from near and far to be on October 2, a train went off the end of the track At precisely 12 noon, following the at the Fremont Station ceremonies, BART's General Manager and into the lot, setting off a public clamor for investigations and fixes.

Technical Problems

Due to the technical

system open and eight two-car trains began circulating along the line. Gertrude Guild, of Oakland, then inserted her ticket into the automatic become part of BART's history as its ing day, transbay service could not

ments. However, on January 17, 1979. a train fire in the Transbay Tube changed BART forever. It resulted in On September 27. President BART assessing its overall safety pro-

> In 1980 BART reached another afternoon the Loma Prieta earthquake milestone when it finally opened the put BART to the test and the system



problems the system had had from its open- SamTrans contribution to BART displayed at Colma groundbreaking.

Whole World is Watching BART's initial run that September

the California Public Utilities Commission, BART's safety regulatory agency, gave the okay-and only after the safety of the operation was clearly

demonstrated.

Another major milestone was reached with the opening of the 34th station, the station that was not part of the original plan–the Embacadero Station, one of the busiest stations on today to imagine BART without the

begin until September 16, 1974, after

Embarcadero Station Over the next seven years a great effort was put forth to correct the tech It wasn't until October 17, 1989

world today.



of a new era for BART.



BART Central—the nerve center of the system.

look, and a double function. These were called the C cars and could be used as both a lead car or a mid-train car, unlike the original fleet which had two different cars—the A, with the slant nose, and the B which would serve as a mid-train car. Also, a new track through downtown Oakland was constructed, a turn-back at Daly City. which would be critical to further improvements to train frequency, a new computer system, and several other capital investments.

what it was made of. At 5:04 in the tion of close headways (running trains had collapsed, and highway 280 in grown the original 34-station, 71.5-

that's what it takes."

As one national newspato Warm Springs putting BART on the per put. it was "BART's Shining Hour." doorstep of Santa Clara County. It was also the beginning include the eight-mile extension in

Second Generation: New Transit Cars Many of the new riders stayed with Throughout the new decade, BART BART after the bridge opened, and the made strides to improve. New transit people of the Bay Area saw that the cars were purchased with a brand new investment they had made in their transit system was a very good one.

BART today carries about 250,000 passengers a day, operating 43 trains during peak periods. Since first opening, the system has carried about one billion passengers over 12 billion passenger miles with one of the best safety records in the world

Putting the

BART is embarked on the largest construction program since the sys- 2.100-space parking structure, adiatem was built more than a quarter cent surface parking for 900 vehicles. century ago — a \$2.6 billion, 10-year and internal bus and auto circulation expansion that will propel the rapidrail system into the 21st century

When in full operation by the end time, direct service into San

Wilson said, "We're going to Airport, are currently under construcput everything out there tion. There is also the potential for and run the wheels off it if another five and a half mile extension in Southern Alameda County that would extend the line from Fremont

Completed expansion projects

North Concord/Martinez and Pittsburg/Bay Point, and the 14 mile extension to stations at Castro Vallev and Dublin/Pleasanton in Alameda The Colma Station in San Mateo County, the fifth station so far com-

pleted in the expansion plan, is the iumping off point for the extension to San Francisco International Airport. Located 1.6 miles south of the Daly City BART Station, the Colma Station and 1,400-space parking structure

Groundbreaking on the \$1.167 billion BART extension to San Francisco International Airport was held in November 1997. The four-station line Metropolitan Transportation Comwill extend 7.4 miles from the Colma BART Station to Millbrae, with an additional 1.3 miles of track running east-west directly into the new International Terminal that is being built at the airport.

Transportation Foundation's presti-

gious "Tranny" award in 1997.

Subway stations with above-ground parking facilities will be built in South San Francisco and San Bruno, with an above ground station at Millbrae that will allow easy cross-platform transfers between BART and Caltrain, the Peninsula commuter rail service. The Millbrae BART Station will also offer a

by the people.

to light a city of 100,000.

Ridership on the BART-SFO Extension is projected to reach nearly 70,000 trips per day by the year 2010. including nearly 20,000 daily trips to the airport. Direct BART service along World War, community government the line, including direct service into San Francisco International Airport, is scheduled to begin by the end of the

Funding for all BART extensions in the East Bay was entirely local and included sales tax, bridge tolls and grants, the San Mateo County Transportation District (SamTrans) were honored with the California and BART capital resources. The \$1.167 billion BART-SFO

Extension is being funded by the San Francisco International Airport, SamTrans, the California Transportation Commission, the regional mission, and \$750 million from the Federal Transit Administration.

Visitor Muhammad Ali takes a ride.

BART-A-FACTS

• BART is governed by a nine member board of directors elected directly

BART is a rapid transit system that carries about 270,000 people a day.

BART has five train lines: Richmond-Daly City/Colma, Fremont-Daly City.

Fremont-Richmond, Pittsburg/Bay Point-Colma, Dublin/Pleasanton-

There are 39 stations serving the fully automated BART system. The

system. The ticket machines are automatic and so are the fare gates.

rails' electricity is supplied by Bonneville Power, WAPA, and PG&E.

• The third rail provides 1000 volts DC to power BART trains. The third

trains run on automatic control and are supervised by a central computer

BART gets an electric bill just like people get at home. Only it costs a lit-

tle more—about \$18 to \$20 million annually! BART uses enough power

• The BART system has 95 miles of track in four Bay Area counties:

San Francisco, Alameda, Contra Costa, and San Mateo.

ægislature Lends A Hand

Then in 1949, the California Legislature passed a bill authorizing the formation of a regional district in the Bay Area to provide rapid transit

and military officials were concerned

about the postwar transportation

scene in the San Francisco Bay Area.

Study Proposed

an amendment to the original 1949 enabling legislation. The amendment created the San Francisco Bay Area Rapid Transit Commission and appropriated \$50,000-approximately \$200,0000 today for the Commission to "study and investigate the rapid transit problems in the Bay Area."

Legislature.

State Creates BART

approved the creation of the Bay Area Rapid Transit District, consisting of Alameda, Contra Costa, Marin, San Francisco, and San Mateo Counties. Santa Clara County was included in the early stages of the legislation, but at the request of county officials, it was dropped from the final bill.

By the summer of 1961, the final engineering plan, completed by the PBTB and approved by BART Directors, was ready for submission to

San Mateo County Supervisors were cool to the plan, and in

Vision to Reality: A Transit Renaissance December, 1961, they pulled to Even before the end of the Second county out of the plan altogether.

With the District-wide tax base now reduced, Marin County Supervisors followed suit and pulled their county out early in 1962.

A joint Army-Navy Board of So the PBTB planners went back to the drawing boards and prepared a Enquiry had already considered the desirability of an Alameda-San fifth plan for a system in the remaining three counties. This final plan wa Francisco bridge from a "national" defense view point." In 1941, this completed in the spring of 1962. It was board had recommended against its approved by BART and submitted to construction. In 1943, the same the county supervisors. The proposed system was now Army-Navy Board was reactivated

and told to take another look at the reduced to approximately 71.5 miles of double track, linking the west and need and teasibility of an additional east sides of the bay through the After considering nearly two dozen Transbay Tube, 31 miles of aerial conpossible plans and holding public struction and 24 miles of construction hearings, the Joint Board in 1947 at grade. The underground portion called for a high-speed electric train included about 11 miles of subway. system to serve both sides of the bay five miles of tunnels and four miles of between Oakland and San Francisco. sub-aqueous tube.

The plan called for a \$792 million general obligation bond issue to pay for basic construction, excluding the tube and transit cars. (The tube now was to be financed and built by the California Toll Bridge Authority and BART intended to pay for the passenger cars by the issuance of revenue

Losing San Mateo and Marin

Counties was bad enough, but without

Contra Costa County's potential tax

participation, a truncated two-county

Four of the Contra Costa County

Supervisors had already gone on

system wasn't feasible.

In 1951, the Legislature approved

Joseph Silva Makes a Difference Supervisors in Alameda and San Francisco Counties approved the plan and slated the issuance of \$792 million in general obligation bonds for the November ballot. The plan was due to don't want the bonds, okay, that's their In 1957 the transit commission Supervisors didn't vote to put in the

made its recommendation to the bond issue on the November ballot, the whole project would be forgotten.

On June 4, 1957, The Legislature

record: two were for the plan, two were against. The deciding vote belonged to Supervisor Joseph S. Silva, a farmer from the County's northeastern comer. George Christopher, who was San Francisco's Mayor at the time, along

the supervisors of the five District with Oakland's Mayor John Houlihan. plus Adrian J. Falk. President of the District's Board of Directors, drove to Martinez to to talk to Silva on the

morning of the day set for the Contra to have a great transit system. You'll be Costa vote. Houlihan thought it was a know as the man who made it possiwaste of time. He figured that Silva ble. You'll have the deciding vote. Joe wouldn't approve the plan because of Silva of Contra Costa County. Just the disapproval of his former constituents: "Silva was a 'no' vote in my book." Houlihan later recalled. Christopher, Houlihan and Falk met Silva at a small doughnut and coffee shop on Alhambra Avenue early in the morning.. "There wasn't a single table in the place. All counter." Christopher recalled. "Joe, how can we meet here?" Christopher asked Silva. "We'll

vote to put the bond issue on the bal-

lot, "We hammered away at him, but

he wouldn't budge." Christopher

leaned over to Christopher and whis-

and let's get out of here." But the

daunted. He turned again to Silva:

"Look, Joe, this rapid transit thing is

going to happen some day, sooner or

later, no matter how you vote this

afternoon. The only question is when

it's going to happen. I know it's going to

Adrien J. Falk at San Francisco subway

Houlihan left the coffee shop, they still meet here at the counter." Silva didn't know how Silva was going to vote. The independent farmer from Brentwood kept his counsel til the last. And so the four men sat down on stools at the counter and talked about But when the rapid transit plan came the rapid transit proposal and the cruup for a vote that afternoon, Joseph S. cial vote set for the afternoon. The three visitors took turns talking to Silva but they couldn't get any kind of

Vote Says "Go" Then... sign from Silva that he was going to

think about that. Joe."

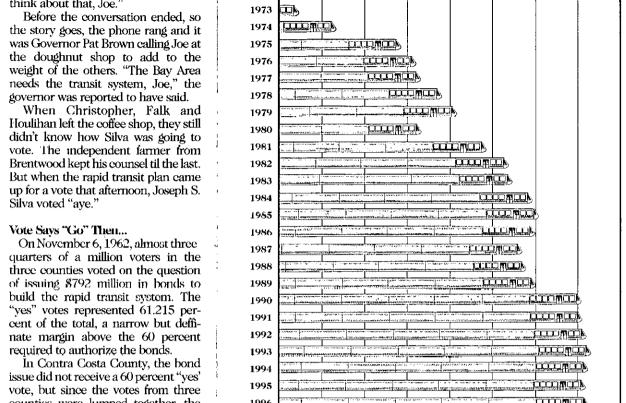
On November 6, 1962, almost three quarters of a million voters in the three counties voted on the question of issuing \$792 million in bonds to build the rapid transit system. The recalled, Houlihan was disgusted. He "ves" votes represented 61.215 perpered, "Tell him to go to hell, George cent of the total, a narrow but deffinate margin above the 60 percent Mayor of San Francisco was not yet required to authorize the bonds.

In Contra Costa County, the bond issue did not receive a 60 percent "ves" vote, but since the votes from three counties were lumped together, the bond issue passed-just! In Alameda County the "yes" vote was 60.039 percost a lot of money, but it's going to cent, about as close as you can get, but happen. Just vote this afternoon to get in San Francisco the favorable vote the bonds on the ballot. If the voters- was 66.888 percent, overriding the smaller "yes" tallies in the other two be voted on by the five-member decision, but give them the chance to counties. Yet even in Contra Costa Board of Supervisors of Contra Costa decide. I think the voters are going to County the "ves' vote reached 54.5 County in July. If the Contra Costa approve the plan. I think we're going percent showing that a majority of the county voters approved the plan and the issuance of the bonds.

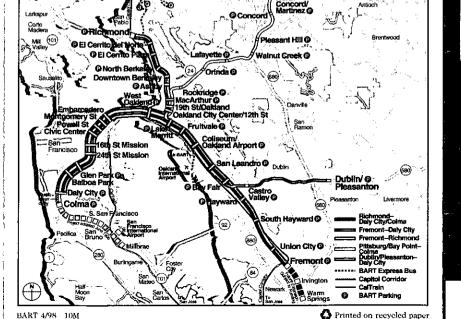
> Three weeks after the election, the four districts voters filed a suit in State Superior Court in Martinez. They charged that the voters had not been given sufficient facts about the project. that the fees to be paid under the the final engineering contract were excessive and that the contract itself was not properly awarded to PBTB by the District's directors. However, in May 1963, Judge

Martin E. Rothenberg disposed of all legal challenges, freeing the district move forward with its plan.

BART TRIPS BY FISCAL YEAR (Millions of riders)



10 20 30 40 50 60 70 80



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History

in the Making

Bringing the Bay Area together for twenty-five years



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