



BSV Phase II - Environmental Commitments Record Legend

LEGEND

Blue Text	Indicates updates since last quarterly report
---	Indicates N/A or no update/activity is applicable to this quarterly report
"gray row"	Indicates mitigation measure complete or N/A
Acronyms	
AEOC	Arena Entertainment and Operations Committee
ARTP	Archaeological Resources Treatment Plan
BAAQMD	Bay Area Air Quality Management District
Caltrans	California Department of Transportation
CEOP	Construction Education and Outreach Plan
CHSRA	California High Speed Rail Authority
CMP	Containment Management Plan
COMP	Construction Outreach Management Program
CP	Consulting Parties
CTMP	Construction Transportation Management Plan
CWG	Community Working Groups
ESCP	Emergency Services Coordination
FHA	Federal Highway Administration
FRA	Federal Railroad Administration
FST	Floating Slab Track
FTA	Federal Transit Administration
ISA	Initial Site Assessment
IST	Isolated Slab Track
NA	Native American
PA	Programmatic Agreement
RAPs	Remedial Action Plans
ROD	Record of Decision
RWQCB	Regional Water Quality Control Board
SHPO	State Historic Preservation Officer
SJRRRC	San Joaquin Regional Rail Commission
SIWC	San Jose Water Company
TCP	Traffic Control Plans
VTA	Santa Clara Valley Transportation Authority
Timeframe for Implementation letter codes:	
C	Construction
D	Design
P	Post Construction
Responsible Party codes: VTA and/or C = Contractor	
Compliance Status letter codes:	
IC	In Compliance
OU	Out of Compliance
CC	Complete and Closed
N/A	Not Applicable

Source Document Abbreviations		
Santa Clara Valley Transportation Authority, Board of Directors		
BOD ATT-A	April 5, 2018, Board Memorandum. Attachment A-Recommended Project Description	
Supplemental Environmental Impact Statement (SEIS), Subsequent Environmental Impact Report (SEIR)		
Vol-1		Volume 1
CH-1	Chapter 1	Executive Summary
CH-2	Chapter 2	Alternatives
CH-3	Chapter 3	NEPA and CEQA Transportation Operation Analysis
CH-4	Chapter 4	NEPA Alternatives Analysis of Operations
CH-5	Chapter 5	NEPA Alternatives Analysis of Construction
CH-6	Chapter 6	CEQA Alternatives Analysis of Construction and Operation
CH-7	Chapter 7	Other NEPA and CEQA Considerations
CH-8	Chapter 8	Section 4(f) of the Department of Transportation Act of 1966
CH-9	Chapter 9	Financial Considerations
CH-10	Chapter 10	Agency and Community Participation
Vol-2		Volume 2. Responses to Comments
ROD		Federal Transit Administration Record of Decision
VTA Sustainability Practices		
VTA-Green		VTA Green Building Policy 400.004
VTA-Sust		VTA Sustainable Landscaping Policy CMA-CL-PL-7120

BSV Phase II - Environmental Commitments Record														
Mitigation Monitoring & Reporting Program														
Env Doc Chapter / Mitigation Topic	Environmental Document Chapter	Mitigation Topic	MMRP Code			Source Document	Summary	Mitigation Measure	Location	Implementation				Quarter Mitigation Completed
			Chrono #	Measure #						Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post-construction (P)	Responsible Party	
											2024			
											Q3			
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transportation	Develop and Implement a Construction Education and Outreach Plan	1	-MMRP-TRA-CNST-01	A-Vol-1, ROD	Develop a Construction Education and Outreach Plan (CEOP)	Develop and implement a Construction Education and Outreach Plan: VTA will develop a Construction Education and Outreach Plan (CEOP) in coordination with the Cities of San Jose and Santa Clara to foster communication between VTA, various municipalities, and the public during construction. VTA will develop the CEOP after the environmental process is complete and implement it prior to construction. The CEOP will ensure that VTA coordinates construction activities with existing business operations and other development projects to minimize disruption and delays. The CEOP will also establish a process that will address the concerns of businesses and their customers, property owners, residents, and commuters. The CEOP will be incorporated into the plans and specifications of all contracts through which the BART Extension will be implemented. Critical components of the CEOP will include, but are not limited to, the following requirements (MMRP-TRA-CNST-A-02 through A-17).	Program-wide	D	C	VTA	IC	This is a summary mitigation measure. For individual components of the CEOP please refer to MMRP-TRA-CNST-A-02 through A-16, below. The CEOP was prepared in two parts, as follows: Part A: Planning Phase Part B: Construction The CEOP was added as a reference document in the VTA-CSJ and VTA-CSC Cooperative Agreements.	
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transportation	Develop and Implement a Construction Education and Outreach Plan	2	-MMRP-TRA-CNST-02	A-Vol-1, ROD	Establish Community Outreach Field Office	Develop and implement a Construction Education and Outreach Plan: Establish field office(s) accessible to the public with dedicated community outreach staff and defined hours.	Program-wide	D	C	VTA	IC	The Santa Clara Station field office will be incorporated into the 1st floor of the 2830 De La Cruz project office. The search for a location for the 28th Street/Little Portugal field office is still underway. The Downtown-Diridon Field office is currently under construction in conjunction with the new VTA Downtown Service Center. It is anticipated to be opened in 2024.	
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transportation	Develop and Implement a Construction Education and Outreach Plan	3	-MMRP-TRA-CNST-03	A-Vol-1, ROD	Provide Project Hotline	Develop and implement a Construction Education and Outreach Plan: Provide and maintain a 24-hour/7-day a week project hotline for emergencies.	Program-wide	D	C	VTA	IC	In Q3 2024, VTA maintained the public outreach phone number and email for project inquiries (English 408-321-2345, Spanish, Tagalog, Chinese, Vietnamese, Korean & Portuguese: 408-321-2300. TTY: 408-321-2330 and vtabar@vtabsv.com).	
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transportation	Develop and Implement a Construction Education and Outreach Plan	4	-MMRP-TRA-CNST-04	A-Vol-1, ROD	Conduct Business Operational Surveys	Develop and implement a Construction Education and Outreach Plan: Conduct preconstruction operational surveys of businesses located adjacent to construction areas to ascertain hours of operation, access, deliveries, customer base, special circumstances, and key contacts.	Program-wide	D	C	VTA	IC	VTA conducted pre-construction operational as well as access and service needs interviews for over 50 businesses, institutions and schools in the project corridor adjacent to future potential construction staging areas in Q4 2020. Coordination with new and existing businesses near expected construction areas is ongoing to prevent impacts to the businesses.	
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transportation	Develop and Implement a Construction Education and Outreach Plan	5	-MMRP-TRA-CNST-05	A-Vol-1, ROD	Coordinate on Other Construction Projects	Develop and implement a Construction Education and Outreach Plan: Coordinate with cities to obtain information about upcoming adjacent construction projects to minimize disruptions and delays.	Program-wide	D	C	VTA	IC	In Q3 2024 meetings were held with City of San Jose's Arena Entertainment and Operations Committee (AEOC) on 7/11/24, 8/8/24, 9/12/24. One meeting was held with Downtown West (DTW).	
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transportation	Develop and Implement a Construction Education and Outreach Plan	6	-MMRP-TRA-CNST-06	A-Vol-1, ROD	Engage with Stakeholders	Develop and implement a Construction Education and Outreach Plan: Inform and engage partner agencies, stakeholders, including VTA's BART Silicon Valley Phase II Community Working Groups, business organizations, business owners, tenants, the media, and the public on a regular and frequent basis.	Program-wide	D	C	VTA	IC	VTA held six in-person CWG meetings (7/23-7/25, 7/31, 8/1, 9/18) In Q3 2024, BSVII held one (1) program-wide meeting with the City of San Jose staff on 7/9/24 . CTMP Coordination meeting with SAP/Sharks (8/26/24), City of San Jose (7/26/24, 8/9/24), City of Santa Clara CP3/CP4 meeting (7/25/24)	
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transportation	Develop and Implement a Construction Education and Outreach Plan	7	-MMRP-TRA-CNST-07	A-Vol-1, ROD	Engage Public	Develop and implement a Construction Education and Outreach Plan: Conduct public workshops, meetings, or webinars for community members. Hold regular meetings with the surrounding businesses and residents throughout the course of construction.	Program-wide	D	C	VTA	IC	VTA attended one (1) Public Tabling Event (9/8/24)	
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transportation	Develop and Implement a Construction Education and Outreach Plan	8	-MMRP-TRA-CNST-08	A-Vol-1, ROD	Distribute Project Information	Develop and implement a Construction Education and Outreach Plan: Distribute and post project information and advanced construction notification via the project website, social and traditional media, signage, face-to-face visits, flyers, mailers, emails, and other communication methods as appropriate.	Program-wide	D	C	VTA	IC	In Q3 2024: • 2 construction notices were issued and published; • 26 Social Media posts were shared • Take-One Article (Fall Edition)	
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transportation	Develop and Implement a Construction Education and Outreach Plan	9	-MMRP-TRA-CNST-09	A-Vol-1, ROD	Develop Project Signage Program	Develop and implement a Construction Education and Outreach Plan: Develop a project signage program identifying project corridor, station areas, construction timeline, and funding.	Program-wide	D	C	VTA	IC	Project signage is at the West Portal and includes project identification, the corridor, and contractor field office signs. VTA is continuing to work with the tunnel and trackwork contractor to develop a signage plan for upcoming Project stages.	
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transportation	Develop and Implement a Construction Education and Outreach Plan	10	-MMRP-TRA-CNST-10	A-Vol-1, ROD	Display Maps and Construction Schedule	Develop and implement a Construction Education and Outreach Plan: Display maps and construction schedule information in project field office(s) and around the construction area.	Program-wide	D	C	VTA	IC	Project signage containing schedule information has been posted at the West Portal. VTA is continuing to work with the tunnel and trackwork contractor to develop signage for upcoming Project stages.	

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																D	C	P	VTA	IC
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transportation	Develop and Implement a Construction Education and Outreach Plan	11	-MMRP-TRA-CNST-11	Vol-1, ROD	Display Parking and Access	Develop and Implement a Construction Education and Outreach Plan: Increase visibility of alternative parking and access via signage, website postings, and other communication methods.	Program-wide	D	C		VTA	IC	In Q3 2024, VTA launched the project microsite with project information and transparency information. No parking has been impacted by construction activities to date.						
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transportation	Develop and Implement a Construction Education and Outreach Plan	12	-MMRP-TRA-CNST-12	Vol-1, ROD	Maintain Media Relations	Develop and Implement a Construction Education and Outreach Plan: Maintain media relations (i.e., news releases, news articles, and interviews).	Program-wide	D	C		VTA	IC	The media covered the project 45 times and VTA wrote 3 blogs in Q3 2024.						
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transportation	Develop and Implement a Construction Education and Outreach Plan	13	-MMRP-TRA-CNST-13	Vol-1, ROD	Designate Community Outreach Personnel	Develop and Implement a Construction Education and Outreach Plan: Designate community outreach personnel available on site for the duration of the construction project.	Program-wide	D	C		VTA	IC	VTA designated project staff that will lead outreach within each work area and the CP2 Contractor has two Community Construction Relationship Offices (CCROs) that will be available during construction. Office hours will be established once the field offices are completed.						
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transportation	Develop and Implement a Construction Education and Outreach Plan	14	-MMRP-TRA-CNST-14	Vol-1, ROD	Promote Access to Businesses	Develop and Implement a Construction Education and Outreach Plan: Work with property owners and business owners in the station areas to promote access to businesses during construction, including enhanced signage.	Program-wide	D	C		VTA	IC	The VTA Board of Director's approved the implementation and funding of the Business Resource Program (BRP) on March 7, 2024. In Q3 2024, VTA continued to establish implementation of the four Program elements that will identify ways VTA can help alleviate disruptions and support the business community during construction. Coordination with VTA on how to administer the contract process for DFA and Local Resource Network (LRN) elements has been initiated and ongoing.						
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transportation	Develop and Implement a Construction Education and Outreach Plan	15	-MMRP-TRA-CNST-15	Vol-1, ROD	Market Businesses During Construction	Develop and Implement a Construction Education and Outreach Plan: Provide marketing assistance, technical business support, and cross-promotional efforts to businesses within the area impacted by construction to encourage customers to shop at businesses during construction.	Program-wide	D	C		VTA	IC	The VTA Board of Director's approved the implementation and funding of the Business Resource Program (BRP) on March 7, 2024. In Q3 2024, VTA continued to establish implementation of the four Program elements that will identify ways VTA can help alleviate disruptions and support the business community during construction. Coordination with VTA on how to administer the contract process for DFA and Local Resource Network (LRN) elements has been initiated and is ongoing.						
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transportation	Develop and Implement a Construction Education and Outreach Plan	16	-MMRP-TRA-CNST-16	Vol-1, ROD	Provide Notice of Utility Outages	Develop and Implement a Construction Education and Outreach Plan: Establish outreach to stakeholders to provide advanced notice of scheduled utility outages.	Program-wide	D	C		VTA	IC	No utility outages occurred in Q3 2024. Notice will be provided to stakeholders when utility outages are required in future quarters.						
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transportation	Develop and Implement a Construction Education and Outreach Plan	17	-MMRP-TRA-CNST-17	Vol-1, ROD	Proactive Multi-Language Community Involvement	Develop and Implement a Construction Education and Outreach Plan: Throughout development and implementation, the education and outreach activities will be comprehensive, seeking widespread involvement; proactive, with efforts geared toward obtaining input, as well as disseminating information; responsive to various needs, including multiple languages and alternative formats; and timely, accurate, and results-oriented.	Program-wide	D	C		VTA	IC	This is a summary mitigation measure. For individual components of the Construction Education and Outreach Plan (CEOP) please refer to MMRP-TRA-CNST-A-02 through A-16, above.						
Transportation/ Develop and Implement a Construction Transportation Management Plan	Transportation	Develop Construction Transportation Management Plan (CTMP)	18	-MMRP-TRA-CNST-01	Vol-1, ROD	Develop Construction Transportation Management Plan (CTMP)	<p>Develop and Implement a Construction Transportation Management Plan: After the environmental process is complete and prior to beginning any construction activity, VTA will work with the Cities of San Jose and Santa Clara to develop Master Cooperative Agreements that will direct all coordination and partnering efforts between VTA and the cities prior to and during construction of the BART Extension. One element of the Master Cooperative Agreements with the cities will be the Construction Outreach Management Program (COMP). One of the three parts of the COMP is Construction Transportation Management Plan (CTMP).</p> <p>VTA and its General Engineering Contractor will develop and implement the CTMP in partnership with the Cities of San Jose and Santa Clara to coordinate location-specific circulation and access within and around the construction areas for all modes, including automobiles, trucks and construction vehicles, bicyclists, pedestrians, and public transportation such as buses and light rail. The CTMP will be organized according to each of the ten major project elements listed from east to west along the alignment: East Tunnel Portal, Alum Rock/28th Street Station, 13th Street Ventilation Structure, Downtown San Jose Station, Diridon Station, Stockton Avenue Ventilation Structure, West Tunnel Portal, Newhall Maintenance Facility, and Santa Clara Station, and any offsite improvement locations. The CTMP will be tailored to address the site-specific circumstances and sequencing of construction at each of the ten areas. The CTMP will be developed in partnership with the applicable city and incorporated into all plans and specifications of all contracts through which the BART Extension will be implemented.</p> <p>Critical components of the CTMP are as follows: • Sequencing schedule depicting the proposed location and timing of construction activities on a routine basis for the</p>	Program-wide	D	C		VTA	IC	<p>KST developed a schedule and proposed timing of topics for internal VTA review and discussion with City of San Jose and Sharks.</p> <p>There were 2 meetings with stakeholders regarding CP2 CTMP1 and 5 meetings with stakeholders regarding CP2 CTMP1 in 2024 Q3.</p> <p>KST's CTMP scopes for the remainder of Contract Package 2 remains as follows: 1. West Portal Early Work Construction (Approved) 2. Downtown San Jose and Diridon Early Work Construction and Tunneling and Heavy Construction (In Progress) 3. West Portal Tunneling and Heavy Construction (On Hold) 4. East Portal and 28th St Early Work Construction and Tunneling and Heavy Construction (On Hold)</p> <p>The remaining CTMPs will be developed in the order of 2, 4, and 3.</p>						

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							duration of the project. <ul style="list-style-type: none"> Proposed phasing of construction, anticipated lane and street closures, detours, temporary signals, and street reconfigurations, including durations of all of the above and signage requirements that the contractor must follow. Truck haul routes. Location-specific requirements as applicable. In addition, VTA will work with the cities to minimize access and circulation construction impacts during special events, including Christmas in the Park, parades, and marathons.							
Transportation/ Develop and Implement a Construction Transportation Management Plan	Transportation	Develop Construction Transportation Management Plan (CTMP)	19	-MMRP-TRA-CNST-02	B-02	Vol-1, ROD	Develop Individual Traffic Control Plans (TCPs)	Program-wide	D	C	VTA	IC	No TCPs were required for the construction work occurring at the West Portal site as part of the CP2 CTMP1 in Q3 2024. Additional TCPs will be developed following the finalization of the contract specific CTMPs.	
Transportation/ Develop and Implement a Construction Transportation Management Plan	Transportation	Develop Construction Transportation Management Plan (CTMP)	20	-MMRP-TRA-CNST-03	B-03	Vol-1, ROD	Develop and Implement a Construction Transportation Management Plan: The TCPs will include site-specific requirements such as the following. <ul style="list-style-type: none"> Alternative access routes where practicable and wayfinding signage for all detours affecting roadway users, including vehicular traffic, trucks and construction vehicles, bicyclists, and pedestrians. Early signage of potential construction delays for all roadway users to choose alternate routes. Minimum requirements for pedestrians and bicyclists to provide safe travel corridors within and through construction areas or provide detour routes. Coordination between VTA and transit providers as necessary prior to construction to ensure that any necessary re-routing of bus routes and temporary relocation of bus stops during construction is done to minimize impacts on bus riders. Early signage of potential transit delays for transit riders to plan trips accordingly. Notification of the Cities of San Jose and Santa Clara, business owners, residents, and key stakeholders regarding lane and road closures that would affect parking, including both off-street and on-street parking. Maps of all publicly available off-street and on-street parking that will be removed during construction. Schedule of removal of each parking area. Requirement that construction workers must park in construction staging areas or other designated areas. In addition, in coordination with city partners, VTA will work with its contractors and the cities to restore parking as construction nears completion to the extent feasible.	Program-wide	D	C	VTA	IC	No TCPs were required for the construction work occurring at the West Portal site as part of the CP2 CTMP1 in Q3 2024. Additional TCPs will be developed following the finalization of the contract specific CTMPs.	
Transportation / Implement an Emergency Services Coordination Plan (ESCP)	Transportation	Implement an Emergency Services Coordination Plan (ESCP)	21	-MMRP-TRA-CNST-C	-	Vol-1, ROD	Prepare and Implement an Emergency Services Coordination Plan: After the environmental process is complete and prior to beginning any construction activity, VTA will work with the Cities of San Jose and Santa Clara to develop Master Cooperative Agreements that will direct all coordination and partnering efforts between VTA and the cities prior to and during construction of the BART Extension. One element of the Master Cooperative Agreements with the cities will be the COMP. One of the three parts of the COMP is the Emergency Services Coordination (ESCP). As local emergency service routes and response times could be affected by construction activities, VTA will coordinate with local fire and police services to develop the ESCP to minimize this impact. The ESCP will be incorporated into the plans and specifications of all contracts through which the BART Extension will be implemented. Critical components of coordination are as follows. <ul style="list-style-type: none"> VTA will inform the local fire and police departments of the construction schedule, and potential lane and road closures. VTA will work with emergency providers to ensure emergency access to residents and businesses and to maintain the cities' emergency service response times. VTA will work with the local fire and police departments on the detour routes. VTA will provide road signage for detours and provide manual traffic control on detour routes as necessary. 	Program-wide	D	C	VTA	IC	A cooperative agreement has been created between VTA and the Cities of San Jose and Santa Clara, and an ESCP will be created prior to heavy civil construction. Adjustments to the ESCP will be implemented should they arise throughout the duration of construction. Outreach notices are kept in the VTA Salesforce program and can be provided if requested.	
Transportation / Provide Temporary Replacement Parking at Diridon Station. NEPA ONLY MITIGATION MEASURE	Transportation	Provide Temporary Replacement Parking at Diridon Station. NEPA ONLY MITIGATION MEASURE	22	-MMRP-TRA-CNST-D	-	Vol-1, ROD	Provide Temporary Replacement Parking at Diridon (Diridon Station Only, NEPA ONLY MITIGATION MEASURE): VTA will provide 450 temporary replacement off-street parking spaces during construction to mitigate for parking impacts caused by the BART Extension construction. The temporary replacement parking will be provided prior to the removal of existing parking spaces.	Diridon Station		C	VTA	IC	Construction of the parking garage continued in Q3 2024 to progress and expected to be completed in Q4 2024. Operational date will be determined based on when the Diridon Construction Staging Area (CSA) will be activated. Responses to the RFP for a parking operator are being reviewed.	
Transportation/ Implement Intersection Improvements at Coleman Avenue and Brokaw Road (for TOJD)	Transportation	Implement Intersection Improvements at Coleman Avenue and Brokaw Road (for TOJD)	23	-MMRP-TRA-A	-	Vol-1, ROD	Implement Intersection Improvements at Coleman Avenue and Brokaw Road (for TOJD): Change the signal control for Brokaw Road (the east and west legs of this intersection) from Protected Left-Turn phasing to Split Phase. Add a shared through/left-turn lane to the east and west approaches within the existing right-of-way. Change the existing shared through/right-turn lanes to right-turn only lanes on the east and west approaches, and change the eastbound right-turn coding from Include to Overlap, indicating that many eastbound right turns would be able to turn right on red.	TOJD; Santa Clara		C	VTA	IC		

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Transportation/ Implement Intersection Improvements at Lafayette Street and Lewis Street (for TOJD)	Transportation	Implement Intersection Improvements at Lafayette Street and Lewis Street (for TOJD)	24	-MMRP-TRA-B	-	Vol-1, ROD	Improve Intersection at Lafayette St. & Lewis St.	TOJD; Santa Clara	C	P	VTA	IC											
Transportation/ Implement Intersection Improvements at the Intersection of Coleman Avenue and I880 Southbound Ramps (for TOJD)	Transportation	Implement Intersection Improvements at the Intersection of Coleman Avenue and I880 Southbound Ramps (for TOJD)	25	-MMRP-TRA-C	-	Vol-1, ROD	Improve Intersection at Coleman Ave. & I880 Southbound Ramps	TOJD; Santa Clara	C	P	VTA	IC											
Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	26	-MMRP-AQ-CNST-01	A-	Vol-1, ROD	Implement Dust Control Measures per Bay Area Air Quality Management District (BAAQMD)	Program-wide	C		VTA/C	IC	This is a summary measure, and has been applied as shown in the mitigation measures MMRP-AQ-CNST-A-02 through A-15 below.										
Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	27	-MMRP-AQ-CNST-02	A-	Vol-1, ROD	Water Exposed Surfaces	Program-wide	C		VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: Early works construction continued in Q3 2024 with site preparation, grading, and clearing and disposal of debris at the West Tunnel Portal. Regular site inspections confirmed dust suppression is applied consistently throughout the day.										
Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	28	-MMRP-AQ-CNST-03	A-	Vol-1, ROD	Maintain Soil Moisture Content	Program-wide	C		VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: Early works construction continued in Q3 2024 with site preparation, grading, and clearing and disposal of debris at the West Tunnel Portal. Regular site inspections confirmed dust suppression is applied consistently throughout the day to maintain a moisture level that will prevent dust emissions from leaving the site.										
Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	29	-MMRP-AQ-CNST-04	A-	Vol-1, ROD	Cover or Moisten Haul Trucks	Program-wide	C		VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: Early works construction continued in Q3 2024 with site preparation, grading, and clearing and disposal of debris and excess/contaminated soils at the West Tunnel Portal. Regular site inspections confirmed haul trucks filled with soils were moistened as they were being filled, and contents were covered prior to leaving the site.										
Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	30	-MMRP-AQ-CNST-05	A-	Vol-1, ROD	Use Wet Power Vacuum Street Sweepers	Program-wide	C		VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: Early works construction continued in Q3 2024 with site preparation, grading, and clearing and disposal of debris and excess/contaminated soils at the West Tunnel Portal. Regular site inspections confirmed a street sweeper with a wet power vacuum swept roadways regularly to prevent trackout.										

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												2024 Q3											
Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	31	-MMRP-AQ-CNST-A-06	Vol-1, ROD	Limit Vehicle Speed	Implement Dust Control Measures: The contractor will limit all vehicle speeds on unpaved roads to 15 mph.	Program-wide	C	VTA/C	IC	<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: Early works construction continued in Q3 2024 with site preparation, grading, and clearing and disposal of debris and excess/contaminated soils at the West Tunnel Portal. Signage has been posted along established construction roadways limiting speeds to 15mph within the site.</p>											
Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	32	-MMRP-AQ-CNST-A-07	Vol-1, ROD	Complete Paving ASAP	Implement Dust Control Measures: The contractor will complete all paving operations on roadways, driveways, and sidewalks as soon as possible. The contractor will also lay building pads as soon as possible after grading, unless seeding or a soil binder is used.	Program-wide	C	VTA/C	IC	<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: Early works construction continued in Q3 2024 with site preparation, grading, and clearing and disposal of debris and excess/contaminated soils at the West Tunnel Portal. Paving operations have not begun on site, and building pads will be established after grading operations have been completed. Therefore this measure will be implemented in future quarters.</p>											
Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	33	-MMRP-AQ-CNST-A-08	Vol-1, ROD	Post Signage Regarding Dust Complaints	Implement Dust Control Measures: The contractor will post a publicly visible sign that includes the telephone number and name of the person to contact at VTA regarding dust complaints. This person will respond and take corrective action within 48 hours. The BAAQMD phone number will also be visible to ensure compliance with applicable regulations.	Program-wide	C	VTA/C	CC-CP2	<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: THIS MEASURE IS COMPLETE for CP2. See Q2 2024.</p>	CP2 - Q2 2024										
Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	34	-MMRP-AQ-CNST-A-09	Vol-1, ROD	Suspend Earth Moving Activities When Windy	Implement Dust Control Measures: The contractor will suspend all excavation, grading, and/or demolition activities when average wind speeds exceed 20 mph.	Program-wide	C	VTA/C	IC	<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: Early works construction continued in Q3 2024 with site preparation, grading, and clearing and disposal of debris and excess/contaminated soils at the West Tunnel Portal. Supervisors regularly check the weather forecast to confirm wind speeds will not exceed 20mph. If the forecast indicates high wind speeds of over 20mph, excavation, grading, and/or demolition activities will be suspended.</p>											
Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	35	-MMRP-AQ-CNST-A-10	Vol-1, ROD	Install Windbreaks	Implement Dust Control Measures: The contractor will install windbreaks (e.g., fences with screening) on the windward side(s) of disturbed construction areas where feasible. Windbreaks should have 50 percent (maximum) air porosity.	Program-wide	C	VTA/C	IC	<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: Early works construction continued in Q3 2024 with site preparation, grading, and clearing and disposal of debris and excess/contaminated soils at the West Tunnel Portal. Fencing and screening continued through Q3 2024.</p>											
Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	36	-MMRP-AQ-CNST-A-11	Vol-1, ROD	Plant Vegetation ASAP	Implement Dust Control Measures: The contractor will plant vegetative ground cover (e.g., fast-germinating native grass seed) in disturbed areas as soon as possible and water appropriately until vegetation is established.	Program-wide	C	VTA/C	IC	<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: Early works construction continued in Q3 2024 with site preparation, grading, and clearing and disposal of debris and excess/contaminated soils at the West Tunnel Portal. Vegetative ground cover will be planted as soon as possible, but due to the continual work activities at the West Tunnel Portal, air quality measures AQ-CNST-A-02 through A-10, and AQ-CNST-A-12 through A-15 will be applied.</p>											

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			Chrono #	Measure #					Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post-construction (P)	Responsible Party	
Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	37	-MMRP-AQ-CNST-12	Vol-1, ROD	Phase Ground-Disturbing Activities	Program-wide	C	VTA/C	C	<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3 Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: Early works construction continued in Q3 2024 with site preparation, grading, and clearing and disposal of debris and excess/contaminated soils at the West Tunnel Portal. Construction activities were conducted in phases through different sections of the site to reduce dust emissions and increase site safety and access.</p>		
Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	38	-MMRP-AQ-CNST-13	Vol-1, ROD	Use Construction Entrances/Exits	Program-wide	C	VTA/C	C	<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3 Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: Early works construction continued in Q3 2024 with site preparation, grading, and clearing and disposal of debris and excess/contaminated soils at the West Tunnel Portal. Three construction entrances/exits have been installed - one at Brokaw Road, one at Newhall Drive, and one at Newhall Street. The entrances/exits have been installed per TC-1 specifications in CASQA's BMP Handbook, and accumulated sediment is regularly cleaned out to prevent trackout on the public roadways.</p>		
Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	39	-MMRP-AQ-CNST-14	Vol-1, ROD	Install Sediment and Erosion Control Devices	Program-wide	C	VTA/C	C	<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3 Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: Early works construction continued in Q3 2024 with site preparation, grading, and clearing and disposal of debris and excess/contaminated soils. Sediment and erosion control best management practices (BMPs) have been installed in accordance with the site-specific SWPPP. Regular SWPPP inspections ensured and confirmed maintenance of the BMPs on site.</p>		
Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	40	-MMRP-AQ-CNST-15	Vol-1, ROD	Control Dust During Operation of Concrete Batch Plants	Program-wide	C	VTA/C	C	<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3 Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: For Q3 2024, construction or operation of concrete batch plants has not commenced, therefore this measure will be implemented in future quarters.</p>		
Air Quality/ Use U.S. Environmental Protection Agency (EPA) Tier 4 or cleaner engines	Air Quality	Use U.S. Environmental Protection Agency (EPA) Tier 4 or cleaner engines	41	-MMRP-AQ-CNST-B	Vol-1, ROD	Use U.S. Environmental Protection Agency (EPA) Tier 4 or Cleaner Engines	Program-wide	C	VTA/C	C	<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3 Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: This mitigation measure was included in the CP2 Conformed set under Vol 1 General Requirements, Section 01 57 00 Temporary Controls. An equipment list was provided by the contractor specifying EPA Tier 4 (or cleaner) engines, and environmental inspector spot checks confirmed the use of the specified equipment.</p>		



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			Chrono #	Measure #					Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post-construction (P)	Responsible Party		Compliance Status	2024
															Q3
Air Quality/ Maintain Construction Equipment	Air Quality	Maintain Construction Equipment	42	-MMRP-AQ-CNST-C	-	Vol-1, ROD	Maintain Construction Equipment	Program-wide	C	VTA/C	K	<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3 Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: All equipment was certified by a mechanic prior to operation on site in Q3 2024. Spot checks by equipment operators are performed prior to the start of each day, and a certified staff mechanic is called if any maintenance is required.</p>			
Air Quality/ Minimize Idling Times	Air Quality	Minimize Idling Times	43	-MMRP-AQ-CNST-D	-	Vol-1, ROD	Minimize Idling Times	Program-wide	C	VTA/C	K	<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3 Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: Early works construction continued in Q3 2024 with site preparation, grading, and clearing and disposal of debris and excess/contaminated soils. Environmental inspector spot checks ensured equipment and vehicles minimized idling times by either shutting engines off when noticed, or reduced to 5 minutes.</p>			
Air Quality/ Use Equipment Meeting ARB Certification Standards	Air Quality	Use Equipment Meeting ARB Certification Standards	44	-MMRP-AQ-CNST-E	-	Vol-1, ROD	Use Equipment Meeting Air Resources Board (ARB) Certification Standards	Program-wide	C	VTA/C	K	<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3 Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: Early works construction continued in Q3 2024 with site preparation, grading, and clearing and disposal of debris and excess/contaminated soils at the West Tunnel Portal. KST provided documentation to VTA that all equipment used on site meets ARB's most recent certification standard.</p>			
Air Quality/ Ensure Heavy-Duty Diesel Trucks Will Comply with EPA Emissions Standards	Air Quality	Ensure Heavy-Duty Diesel Trucks Will Comply with EPA Emissions Standards	45	-MMRP-AQ-CNST-F	-	Vol-1, ROD	Ensure Diesel Trucks Comply with U.S. Environmental Protection Agency (EPA) Emissions Standards	Program-wide	C	VTA/C	K	<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3 Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: Early works construction continued in Q2 2024 with site preparation, grading, and clearing and disposal of debris and excess/contaminated soils at the West Tunnel Portal. KST provided documentation to VTA that all equipment used on site meets EPA's 2007 emissions standards.</p>			
Air Quality/ Use Low-Sulfur Fuel	Air Quality	Use Low-Sulfur Fuel	46	-MMRP-AQ-CNST-G	-	Vol-1, ROD	Use Low-Sulfur Fuel	Program-wide	C	VTA/C	CC	<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3 Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: Low-sulfur diesel fuel has been a requirement in California since 2012.</p> <p>THIS MEASURE IS COMPLETE AND CLOSED. See Q2 2024.</p>	Q2 2024		
Air Quality/ Locate Construction Areas Away from Sensitive Receptors	Air Quality	Locate Construction Areas Away from Sensitive Receptors	47	-MMRP-AQ-CNST-H	-	Vol-1, ROD	Locate Construction Away from Sensitive Receptors	Program-wide	C	VTA/C	K	<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3 Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: Early works construction continued in Q3 2024 with site preparation, grading, and clearing and disposal of debris and excess/contaminated soils at the West Tunnel Portal. Construction equipment and staging areas are kept away from the identified sensitive receptors near Brokaw Road, and away from any air conditioning and building fresh-air intake vents.</p>			

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			Chrono #	Measure #					Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post-construction (P)	Responsible Party	
Air Quality/ Use Low-Volatile Organic Compound (VOC) Coatings	Air Quality	Use Low-Volatile Organic Compound (VOC) Coatings	48	-MMRP-AQ-CNST-1	Vol-1, ROD	Use Low-Volatile Organic Compound (VOC) Coatings	Program-wide	C		VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (P&E) packages. For CP-2 Tunnel and Trackwork: This mitigation measure was included in the CP2 Conformed set under Vol 1 General Requirements, Section 01 35 74 Sustainability Requirements and Section 01 57 00 Temporary Controls. No coatings were required in Q3 2024, therefore this measure will be applied in future quarters as necessary.	
Biological Resources and Wetlands/ Avoid Nesting Bird Season	Biological Resources and Wetlands	Avoid Nesting Bird Season	49	-MMRP-BIO-CNST-A	Vol-1, ROD	Avoid Nesting Bird Season	Program-wide	C		VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (P&E) packages. For CP-2 Tunnel and Trackwork: Nesting bird surveys were performed on July 15, 2024 and August 12, 2024 prior to tree trimming and removal. No active bird nests were observed on site or in the surrounding buffers, therefore tree trimming and removal activities were cleared to proceed.	
Biological Resources and Wetlands/ Conduct Preconstruction/Predisturbance Surveys for Nesting Birds	Biological Resources and Wetlands	Conduct Preconstruction/Predisturbance Surveys for Nesting Birds	50	-MMRP-BIO-CNST-B	Vol-1, ROD	Conduct Preconstruction/Predisturbance Surveys for Nesting Birds	Program-wide	D	C	VTA/C	IC	Please refer to the documentation under MMRP-BIO-CNST-A.	
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Trees	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Trees	51	-MMRP-BIO-CNST-01	Vol-1, ROD	Conduct Preconstruction Surveys for Roosting Bats	Program-wide	D	C	VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (P&E) packages. For CP-2 Tunnel and Trackwork: A roosting bat survey was performed on July 15, 2024 prior to tree trimming and removal. No bats or signs of bat presence was observed on site, however suitable habitat was identified along the northwestern boundary of the site. The trees with potential bat habitat were recorded and flagged for monitoring, but tree removal has been postponed to future quarters.	
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Trees	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Trees	52	-MMRP-BIO-CNST-02	Vol-1, ROD	No Disturbance to Bat Roosting Trees Between April 1 and September 15	Program-wide	D	C	VTA/C	IC	Please refer to the documentation under MMRP-BIO-CNST-C-01.	
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Trees	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Trees	53	-MMRP-BIO-CNST-03	Vol-1, ROD	Remove Bat Roosting Trees between September 15 and October 30	Program-wide	D	C	VTA/C	IC	Please refer to the documentation under MMRP-BIO-CNST-C-01.	

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			Chrono #	Measure #					Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post-construction (P)	Responsible Party	Compliance Status	Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post-construction (P)		Responsible Party	Compliance Status						
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Trees	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Trees	54	-MMRP- BIO-CNST-04	Vol-1, ROD	Remove Trees in Pieces	Program-wide	D	C		VTA/C	IC	Please refer to the documentation under MMRP-BIO-CNST-C-01.												
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Trees	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Trees	55	-MMRP- BIO-CNST-05	Vol-1, ROD	Ensure Maternity Roost is Undisturbed until September 15	Program-wide	D	C		VTA/C	IC	Please refer to the documentation under MMRP-BIO-CNST-C-01.												
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Trees	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Trees	56	-MMRP- BIO-CNST-06	Vol-1, ROD	Biologists to Monitor Tree Removal	Program-wide	D	C		VTA/C	IC	Please refer to the documentation under MMRP-BIO-CNST-C-01.												
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	57	-MMRP- BIO-CNST-07	Vol-1, ROD	Conduct Roosting Bat Surveys at Buildings	Program-wide	D	C		VTA/C	IC	CP2 will be performing the demolition in advance of the other contract packages. Future surveys will be performed as needed by the other contract packages. For CP-2 Tunnel and Trackwork: This mitigation measure was included in the CP2 Conformed set under Vol 1 General Requirements, Section 01 35 71. Biological Resources Requirements. No buildings were removed or demolished in Q3 2024, therefore this measure will be implemented in future quarters.												
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	58	-MMRP- BIO-CNST-08	Vol-1, ROD	Conduct Roosting Bat Surveys Within 24 Hours of Building Demolition	Program-wide	D	C		VTA/C	IC	Please refer to the documentation under MMRP-BIO-CNST-C-07.												
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	59	-MMRP- BIO-CNST-09	Vol-1, ROD	Conduct Roosting Bat Surveys Within 24 Hours of Building Demolition	Program-wide	D	C		VTA/C	IC	Please refer to the documentation under MMRP-BIO-CNST-C-07.												
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	60	-MMRP- BIO-CNST-10	Vol-1, ROD	Implement Roosting Bat Protective Measures	Program-wide	D	C		VTA/C	IC	Please refer to the documentation under MMRP-BIO-CNST-C-07.												
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	61	-MMRP- BIO-CNST-11	Vol-1, ROD	Conduct Follow-Up Roosting Bat Surveys at Buildings	Program-wide	D	C		VTA/C	IC	Please refer to the documentation under MMRP-BIO-CNST-C-07.												

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			Chrono #	Measure #	Vol-#					ROD	Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post-construction (P)	Responsible Party	Compliance Status																				
																D	C		P	VTA/C	IC														
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	62	-MMRP- BIO-CNST- 12	C-12	Vol-1, ROD	Install Bat Roosting Exclusion Measures	Program-wide	D	C		VTA/C	IC	Please refer to the documentation under MMRP-BIO-CNST-C-07.																					
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	63	-MMRP- BIO-CNST- 13	C-13	Vol-1, ROD	Conduct Roosting Bat Surveys Within 24 Hours of Building Demolition	Program-wide	D	C		VTA/C	IC	Please refer to the documentation under MMRP-BIO-CNST-C-07.																					
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	64	-MMRP- BIO-CNST- 14	C-14	Vol-1, ROD	Implement Roosting Bat Protective Measures	Program-wide	D	C		VTA/C	IC	Please refer to the documentation under MMRP-BIO-CNST-C-07.																					
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	65	-MMRP- BIO-CNST- 15	C-15	Vol-1, ROD	No Building Demolition While Bats Are Present	Program-wide	D	C		VTA/C	IC	Please refer to the documentation under MMRP-BIO-CNST-C-07.																					
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	66	-MMRP- BIO-CNST- 16	C-16	Vol-1, ROD	Only Remove Roosting Building Habitat Prior to Hibernation	Program-wide	D	C		VTA/C	IC	Please refer to the documentation under MMRP-BIO-CNST-C-07.																					
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	67	-MMRP- BIO-CNST- 17	C-17	Vol-1, ROD	Install Roosting Bat Exclusion Devices	Program-wide	D	C		VTA/C	IC	Please refer to the documentation under MMRP-BIO-CNST-C-07.																					
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	68	-MMRP- BIO-CNST- 18	C-18	Vol-1, ROD	Provide Compensatory Mitigation for Roosting Bat Habitat	Program-wide	D	C		VTA/C	IC	Please refer to the documentation under MMRP-BIO-CNST-C-07.																					

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Env Doc Chapter / Mitigation Topic	Environmental Document Chapter	Mitigation Topic	MMRP Code		Source Document	Summary	Mitigation Measure	Location	Implementation				2024 Q3	Quarter Mitigation Completed	
			Chrono #	Measure #					Timeline: Design (D)	Timeline: Construction (C)	Timeline: Post-construction (P)	Responsible Party			Compliance Status
Biological Resources and Wetlands/ Protect Riparian Habitat	Biological Resources and Wetlands	Protect Riparian Habitat	69	-MMRP-BIO-CNSTD	Vol-1, ROD	Protect Riparian Habitat	Contractors will not use night lighting for construction activities and staging in the riparian area.	Guadalupe River ; Los Gatos creek	C		VTA/C	C	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3 Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (P&E) packages. For CP-2 Tunnel and Trackwork: No construction occurred near Guadalupe River and Los Gatos Creek in Q3 2024, therefore this measure will be implemented in future quarters.		
Biological Resources and Wetlands/ Conduct Preconstruction Tricolored Blackbird Nesting Surveys and Determine Appropriate Action	Biological Resources and Wetlands	Conduct Preconstruction Tricolored Blackbird Nesting Surveys and Determine Appropriate Action	70	-MMRP-BIO-CNSTE	Vol-1, ROD	Conduct Preconstruction Tricolored Blackbird Nesting Surveys	Conduct Preconstruction Tricolored Blackbird Nesting Surveys and Determine Appropriate Action: There are and have been no known tricolored blackbird nesting colonies in the BART Extension area within the last 5 years. However, to avoid direct effects of construction activities on potential nesting tricolored blackbird colonies, VTA will implement the following procedures. This mitigation measure incorporates survey, avoidance, and minimization guidelines taken directly from Condition 17 of the Santa Clara Valley Habitat Plan (SCVHP) (Santa Clara County 2012). A qualified biologist will conduct a field investigation to identify and map potential nesting substrate. Nesting substrate generally includes flooded, thorny, or spiny vegetation (e.g., cattails, bulrushes, willows, blackberries, thistles, or nettles). If potential nesting substrate is found, VTA may revise the construction staging areas to avoid all areas within a 250-foot buffer around the potential nesting habitat, and biologists will conduct appropriate surveys. If VTA chooses not to avoid the potential nesting habitat and the 250-foot buffer, biologists will conduct additional nesting surveys.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Biological Resources and Wetlands/ Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility)	Biological Resources and Wetlands	Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility)	71	-MMRP-BIO-CNST-F-01	Vol-1, ROD	Implement Burrowing Owl Measures	Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility): To avoid or minimize direct effects of construction activities on burrowing owls, VTA will implement the procedures described below (MMRP-BIO-CNST-F-02 to F-15). This mitigation measure incorporates survey, avoidance, and minimization guidelines taken directly from Condition 15 of the SCVHP (SCVHA 2012).	Newhall Maintenance Facility	D	C	VTA/C	C	This is a summary mitigation measure; please refer to the following measures MMRP-BIO-CNST-F-02 to F-15 related to burrowing owls for the breeding and non-breeding season, respectively. Note that these measures only apply at the Newhall Maintenance Facility, which is the only area on the project with burrowing owl habitat.		
Biological Resources and Wetlands/ Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility)	Biological Resources and Wetlands	Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility)	72	-MMRP-BIO-CNST-F-02	Vol-1, ROD	Conduct Preconstruction Burrowing Owl Surveys	Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility): Prior to any ground disturbance related to BART Extension Alternative activities, a qualified biologist will conduct preconstruction surveys in all suitable habitat areas as identified by SCVHA. The purpose of the preconstruction surveys is to document the presence or absence of burrowing owls on the construction site, particularly in areas within 250 feet of construction activity. To maximize the likelihood of detecting owls, the preconstruction survey will last a minimum of 3 hours. The survey will begin 1 hour before sunrise and continue until 2 hours after sunrise (3 hours total) or begin 2 hours before sunset and continue until 1 hour after sunset. Additional time may be required at large construction sites. The biologist will conduct a minimum of two surveys (if owls are detected on the first survey, a second survey is not needed). The biologist will count all owls observed and map their location. Surveys will conclude no more than 2 calendar days prior to construction. Therefore, the project proponent must begin surveys no more than 4 days prior to construction (2 days of surveying plus up to 2 days between surveys and construction). To avoid last minute changes in schedule or contracting that may occur if burrowing owls are found, VTA may also conduct a preliminary survey up to 14 days before construction. This preliminary survey may count as the first of the two required surveys as long as the second survey concludes no more than 2 calendar days in advance of construction.	Newhall Maintenance Facility	D	C	VTA/C	CC	THIS MEASURE IS COMPLETE AND CLOSED. See Q2 2024.	Q2 2024	
Biological Resources and Wetlands/ Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility): Avoidance Measures: Breeding Season (February 1–August 31)	Biological Resources and Wetlands	Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility): Avoidance Measures: Breeding Season (February 1–August 31)	73	-MMRP-BIO-CNST-F-03	Vol-1, ROD	Avoid Burrowing Owls During Breeding Season	Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility): Avoidance Measures: Breeding Season (February 1–August 31) - In order to allow covered activities to go forward in burrowing owl habitat, VTA will employ avoidance measures described below to ensure that direct take does not occur. If evidence of burrowing owls is found during the breeding season (February 1–August 31), VTA will avoid all nest sites that could be disturbed by construction during the remainder of the breeding season or while the nest is occupied by adults or young (occupation includes individuals or family groups foraging on or near the site following fledging). Avoidance will include establishment of a 250-foot non-disturbance buffer zone around nests. Construction may occur outside of the 250-foot non-disturbance buffer zone.	Newhall Maintenance Facility	D	C	VTA/C	CC	THIS MEASURE IS COMPLETE AND CLOSED. See Q2 2024.	Q2 2024	

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Env Doc Chapter / Mitigation Topic	Environmental Document Chapter	Mitigation Topic	MMRP Code			Source Document	Summary	Mitigation Measure	Location	Implementation				2024 Q3				Quarter Mitigation Completed									
			Chrono #	Measure #						Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post-construction (P)	Responsible Party	Compliance Status													
Biological Resources and Wetlands/ Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility): Avoidance Measures: Breeding Season (February 1–August 31)	Biological Resources and Wetlands	Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility): Avoidance Measures: Breeding Season (February 1–August 31)	74	-MMRP-BIO-CNST-F-04	Vol-1, ROD	Construction inside 250-foot Owl Buffer	Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action-Avoidance Measures: Breeding Season (February 1–August 31) - Construction may take place inside of the 250-foot non-disturbance buffer during the breeding season if the following occurs: • The nest is not disturbed, and • VTA develops an avoidance, minimization, and monitoring plan that will be reviewed by CDFW, USFWS, and SCVHA prior to construction based on the following criteria (MMRP-BIO-CNST-F-05 through F-09):	Newhall Maintenance Facility	D	C		VTA/C	CC					THIS MEASURE IS COMPLETE AND CLOSED. See Q2 2024.	Q2 2024								
Biological Resources and Wetlands/ Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility): Avoidance Measures: Breeding Season (February 1–August 31)	Biological Resources and Wetlands	Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility): Avoidance Measures: Breeding Season (February 1–August 31)	75	-MMRP-BIO-CNST-F-05	Vol-1, ROD	Owl Avoidance and Minimization Plan Approval	Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action-Avoidance Measures: Breeding Season (February 1–August 31) CDFW, USFWS, and the SCVHA approves the avoidance and minimization plan provided by VTA. CDFW, USFWS, and SCVHA will have 21 calendar days to respond to a request from VTA to review the proposed construction monitoring plan. If these parties do not respond within 21 calendar days, it will be presumed that they concur with the proposal and work can commence.	Newhall Maintenance Facility	D	C		VTA/C	CC					THIS MEASURE IS COMPLETE AND CLOSED. See Q2 2024.	Q2 2024								
Biological Resources and Wetlands/ Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility): Avoidance Measures: Breeding Season (February 1–August 31)	Biological Resources and Wetlands	Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility): Avoidance Measures: Breeding Season (February 1–August 31)	76	-MMRP-BIO-CNST-F-06	Vol-1, ROD	Determine Baseline Owl Behavior	Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action-Avoidance Measures: Breeding Season (February 1–August 31) A qualified biologist monitors the owls for at least 3 days prior to construction to determine baseline nesting and foraging behavior (i.e., behavior without construction).	Newhall Maintenance Facility	D	C		VTA/C	CC					THIS MEASURE IS COMPLETE AND CLOSED. See Q2 2024.	Q2 2024								
Biological Resources and Wetlands/ Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility): Avoidance Measures: Breeding Season (February 1–August 31)	Biological Resources and Wetlands	Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility): Avoidance Measures: Breeding Season (February 1–August 31)	77	-MMRP-BIO-CNST-F-07	Vol-1, ROD	Survey Owl Behavior During Construction	Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action-Avoidance Measures: Breeding Season (February 1–August 31) The same qualified biologist monitors the owls during construction and finds no change in owl nesting and foraging behavior in response to construction activities.	Newhall Maintenance Facility	D	C		VTA/C	CC					THIS MEASURE IS COMPLETE AND CLOSED. See Q2 2024.	Q2 2024								
Biological Resources and Wetlands/ Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility): Avoidance Measures: Breeding Season (February 1–August 31)	Biological Resources and Wetlands	Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility): Avoidance Measures: Breeding Season (February 1–August 31)	78	-MMRP-BIO-CNST-F-08	Vol-1, ROD	Cease Construction if Owl Behavior Changes	Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action-Avoidance Measures: Breeding Season (February 1–August 31) If there is any change in owl nesting and foraging behavior as a result of construction activities, these activities will cease within the 250-foot buffer. Construction cannot resume within the 250-foot buffer until the adults and juveniles from the occupied burrows have moved out of the construction area.	Newhall Maintenance Facility	D	C		VTA/C	CC					THIS MEASURE IS COMPLETE AND CLOSED. See Q2 2024.	Q2 2024								

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										Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post-construction (P)	Responsible Party			Compliance Status
Biological Resources and Wetlands/ Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility): Avoidance Measures: Breeding Season (February 1–August 31)	Biological Resources and Wetlands	Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility): Avoidance Measures: Breeding Season (February 1–August 31)	79	-MMRP-BIO-CNST-F-09	Vol-1, ROD	Excavate Owl Burrow to Prevent Reoccupation	Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action-Avoidance Measures: Breeding Season (February 1–August 31) If monitoring indicates that the nest is abandoned prior to the end of the nesting season and the burrow is no longer in use by owls, the non-disturbance buffer zone may be removed. The biologist will excavate the burrow to prevent reoccupation after receiving approval from CDFW, USFWS, and SCVHA.	Newhall Maintenance Facility	D	C	VTA/C	CC	THIS MEASURE IS COMPLETE AND CLOSED. See Q2 2024.	Q2 2024		
Biological Resources and Wetlands/ Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action-Avoidance Measures: Non-Breeding Season (September 1–January 31)	Biological Resources and Wetlands	Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action-Avoidance Measures: Non-Breeding Season (September 1–January 31)	80	-MMRP-BIO-CNST-F-10	Vol-1, ROD	Establish Buffers Around Occupied Burrows	Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action-Avoidance Measures: Non-Breeding Season (September 1–January 31) During the non-breeding season (September 1–January 31), VTA will establish a 250-foot non-disturbance buffer around occupied burrows as determined by a qualified biologist. Construction activities outside of this 250-foot buffer are allowed. Construction activities within the non-disturbance buffer are allowed if the following criteria (MMRP-BIO-CNST-F-11 through F-15) are met in order to prevent owls from abandoning important overwintering sites.	Newhall Maintenance Facility	D	C	VTA/C	CC	THIS MEASURE IS COMPLETE AND CLOSED. See Q2 2024.	Q2 2024		
Biological Resources and Wetlands/ Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action-Avoidance Measures: Non-Breeding Season (September 1–January 31)	Biological Resources and Wetlands	Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action-Avoidance Measures: Non-Breeding Season (September 1–January 31)	81	-MMRP-BIO-CNST-F-11	Vol-1, ROD	Determine Baseline Owl Behavior	Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action-Avoidance Measures: Non-Breeding Season (September 1–January 31) A qualified biologist monitors the owls for at least 3 days prior to construction to determine baseline foraging behavior (i.e., behavior without construction).	Newhall Maintenance Facility	D	C	VTA/C	CC	THIS MEASURE IS COMPLETE AND CLOSED. See Q2 2024.	Q2 2024		
Biological Resources and Wetlands/ Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action-Avoidance Measures: Non-Breeding Season (September 1–January 31)	Biological Resources and Wetlands	Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action-Avoidance Measures: Non-Breeding Season (September 1–January 31)	82	-MMRP-BIO-CNST-F-12	Vol-1, ROD	Survey Owl Behavior During Construction	Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action-Avoidance Measures: Non-Breeding Season (September 1–January 31) The same qualified biologist monitors the owls during construction and finds no change in owl foraging behavior in response to construction activities. Monitoring must continue as described here for the non-breeding season as long as the burrow remains active.	Newhall Maintenance Facility	D	C	VTA/C	CC	THIS MEASURE IS COMPLETE AND CLOSED. See Q2 2024.	Q2 2024		
Biological Resources and Wetlands/ Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action-Avoidance Measures: Non-Breeding Season (September 1–January 31)	Biological Resources and Wetlands	Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action-Avoidance Measures: Non-Breeding Season (September 1–January 31)	83	-MMRP-BIO-CNST-F-13	Vol-1, ROD	Cease Construction if Owl Behavior Changes	Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action-Avoidance Measures: Non-Breeding Season (September 1–January 31) If there is any change in owl nesting and foraging behavior as a result of construction activities, these activities will cease within the 250-foot buffer.	Newhall Maintenance Facility	D	C	VTA/C	CC	THIS MEASURE IS COMPLETE AND CLOSED. See Q2 2024.	Q2 2024		

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			Chrono #	Measure #					Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post-construction (P)	Responsible Party	Compliance Status										
Biological Resources and Wetlands/ Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action-Avoidance Measures: Non-Breeding Season (September 1-January 31)	Biological Resources and Wetlands	Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action-Avoidance Measures: Non-Breeding Season (September 1-January 31)	84	-MMRP-BIO-CNST-	F-14	Vol-1, ROD Excavate Owl Burrow to Prevent Reoccupation	Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action-Avoidance Measures: Non-Breeding Season (September 1-January 31) If the owls are gone for at least 1 week, VTA may request approval from CDFW, USFWS, and SCVHA for a qualified biologist to excavate usable burrows to prevent owls from re-occupying the site. After all usable burrows are excavated, the buffer zone will be removed and construction may continue. Monitoring must continue as described above for the non-breeding season as long as the burrow remains active.	Newhall Maintenance Facility	D	C		VTA/C	CC					THIS MEASURE IS COMPLETE AND CLOSED. See Q2 2024.	Q2 2024				
Biological Resources and Wetlands/ Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action-Avoidance Measures: Non-Breeding Season (September 1-January 31) Construction Monitoring	Biological Resources and Wetlands	Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action-Avoidance Measures: Non-Breeding Season (September 1-January 31)	85	-MMRP-BIO-CNST-	F-15	Vol-1, ROD Maintain Non-Disturbance Owl Buffer Zones	Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action-Avoidance Measures: Non-Breeding Season (September 1-January 31) Construction Monitoring Based on the avoidance, minimization, and monitoring plan developed (as required above), during construction, VTA will establish and maintain the non-disturbance buffer zones if applicable. A qualified biologist will monitor the site consistent with the requirements described above to ensure that buffers are enforced and owls are not disturbed. The biological monitor will also conduct training of construction personnel on the avoidance procedures, buffer zones, and protocols in the event that a burrowing owl flies into an active construction zone.	Newhall Maintenance Facility	D	C		VTA/C	CC					THIS MEASURE IS COMPLETE AND CLOSED. See Q2 2024.	Q2 2024				
Cultural Resources/ Implement Programmatic Agreement and Archaeological Resources Treatment Plan	Cultural Resources	Implement Programmatic Agreement and Archaeological Resources Treatment Plan	86	-MMRP-CUL-CNST-A	-	Vol-1, ROD Implement Programmatic Agreement (PA) and Archaeological Resources Treatment Plan (ARTP)	Implement Programmatic Agreement and Archaeological Resources Treatment Plan: A Programmatic Agreement (PA) and a supporting Archaeological Resources Treatment Plan (ARTP) have been developed and will be executed in consultation with interested Native Americans, the California State Historic Preservation Officer (SHPO), the Advisory Council on Historic Preservation, the California Department of Transportation (Caltrans) District 4, the Cities of San Jose and Santa Clara, the Peninsula Corridor Joint Powers Board, and the South Bay Historical Railroad Society. The PA and ARTP will be implemented prior to and during construction of the BART Extension. The ARTP specifies the National Register of Historic Places criteria applicable for evaluation, procedures to implement the Section 106 process in the field, and standards of evaluation that will be appropriate given the locations and kinds of cultural properties predicted. The ARTP presents methods that combine pre-testing where possible (i.e., on open lots or undeveloped lands); testing after demolition of extant structures but before new ground-disturbing construction begins; construction-phase monitoring where appropriate; and standards for data recovery. Areas within the Area of Potential Effects (APE) where potential resources have been identified, or that are designated as highly sensitive for buried resources, will be field investigated, concentrating on, but not confined to, the area of direct effect. The ARTP meets The Secretary of the Interior's Standards and Guidelines for Archaeology and Historic Preservation (U.S. Department of the Interior, National Park Service, 1983, as amended and annotated).	Program-wide	D	E		VTA	IC					VTA is implementing the Archaeological Resources Treatment Plan (ARTP). Results will be reported to all Consulting Parties (CPs) to the Programmatic Agreement (PA) Annual Report. In Q3 2024, archaeological planning and investigations are ongoing.					
Geology, Soils, and Seismicity/ Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards	Geology, Soils, and Seismicity	Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards	87	-MMRP-GEO-CNST-	A-01	Vol-1, ROD Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards	Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards: If BART Extension stations, system facilities, or portions of the alignment are determined to be in areas exceeding pertinent codes and standards including the California Building Code and BART Facilities Standards Design Criteria for liquefaction, VTA will implement the following methods (MMRP-GEO-CNST-A-01 through A-06) during construction to minimize the potential impacts. VTA will determine the exact methods to reduce impacts from liquefaction during final engineering.	Program-wide	D	C	P	VTA/C	IC					This is a summary measure, and has been applied as seen in the mitigation measures MMRP-GEO-CNST-A-01 through A-06 below.					
Geology, Soils, and Seismicity/ Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards	Geology, Soils, and Seismicity	Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards	88	-MMRP-GEO-CNST-	A-02	Vol-1, ROD Use Pile Foundations as a Means of Ground Densification	Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards: • VTA may use pile foundations or equivalent measures as a means of ground densification as a cost-effective mitigation measure for the seismic liquefaction hazard. (Also see MMRP-GEO-CNST-A-06).	Program-wide	D	C	P	VTA/C	IC					Please refer to the documentation under MMRP-GEO-CNST-A-06.					
Geology, Soils, and Seismicity/ Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards	Geology, Soils, and Seismicity	Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards	89	-MMRP-GEO-CNST-	A-03	Vol-1, ROD Support Parking Garages on Piles	Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards: • VTA will support parking garages at the stations on piles or equivalent geotechnically sound support. (Also see MMRP-GEO-CNST-A-06).	Program-wide	D	C	P	VTA/C	IC					Please refer to the documentation under MMRP-GEO-CNST-A-06.					

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			Chrono #	Measure #						Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post-construction (P)	Responsible Party		Compliance Status	2024 Q3							
Geology, Soils, and Seismicity/ Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards	Geology, Soils, and Seismicity	Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards	90	-MMRP- GEO- CNST-	A-04	Vol-1, ROD	Integrate Subgrade Improvements for Shallow Foundations	Program-wide	D	C	P	VTA/C	IC	Please refer to the documentation under MMRP-GEO-CNST-A-06.									
Geology, Soils, and Seismicity/ Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards	Geology, Soils, and Seismicity	Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards	91	-MMRP- GEO- CNST-	A-05	Vol-1, ROD	Mitigate Liquefaction-Related Uplift of Underground Facilities	Program-wide	D	C	P	VTA/C	IC	Please refer to the documentation under MMRP-GEO-CNST-A-06.									
Geology, Soils, and Seismicity/ Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards	Geology, Soils, and Seismicity	Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards	92	-MMRP- GEO- CNST-	A-06	Vol-1, ROD	Consider Other Liquefaction Hazard Mitigation Measures	Program-wide	D	C	P	VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: Early works construction continued in Q3 2024 at the West Tunnel Portal, but foundation construction of peripheral facilities, tunneling, and deep station excavation requiring liquefaction controls has not begun. This measure will be applied in future quarters.									
Geology, Soils, and Seismicity/ Implement Preconstruction and Post-construction Building Condition Surveys for Settlement	Geology, Soils, and Seismicity	Implement Preconstruction and Post-construction Building Condition Surveys for Settlement	93	-MMRP- GEO- CNST-	B-01	Vol-1, ROD	Conduct Preconstruction Building Condition Surveys	Program-wide	D	C	P	VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: VTA performed exterior and interior surveys at 3 historic properties in Q1 2024. In Q3 2024 , draft report preparation is complete, and the report for one previously surveyed property was updated to reflect building modifications.									
Geology, Soils, and Seismicity/ Implement Preconstruction and Post-construction Building Condition Surveys for Settlement- Historic Buildings	Geology, Soils, and Seismicity	Implement Preconstruction and Post-construction Building Condition Surveys for Settlement- Historic Buildings	94	-MMRP- GEO- CNST-	B-02	Vol-1, ROD	Prepare Condition Assessment Reports for Historic Buildings	Program-wide	D	C	P	VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: VTA performed exterior and interior surveys at 3 historic properties in Q1 2024. In Q3 2024 , draft report preparation is complete, and the report for one previously surveyed property was updated to reflect building modifications.									

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Env Doc Chapter / Mitigation Topic	Environmental Document Chapter	Mitigation Topic	MMRP Code		Source Document	Summary	Mitigation Measure	Location	Implementation				Quarter Mitigation Completed										
			Chrono #	Measure #					Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post-construction (P)	Responsible Party		Compliance Status	2024 Q3								
Geology, Soils, and Seismicity/ Monitor Ground Surface during Tunneling Activities	Geology, Soils, and Seismicity	Monitor Ground Surface during Tunneling Activities	95	-MMRP-GEO-CNST-C	Vol-1, ROD	Monitor Ground Surface During Tunneling Activities	Monitor Ground Surface during Tunneling Activities: The contractor will conduct ground surface monitoring prior to and after tunneling by licensed land surveyors. The contractor will mount survey monitoring points on potentially affected structures and representative historic buildings, including the most susceptible structures, select utilities susceptible to settlement, and in representative locations immediately adjacent to streams within the settlement trough along the tunnel alignment to monitor ground movements and effects of tunnel boring. The contractor must obtain approval from VTA and the historic QP to install any monitoring devices or crack gauges on or in historic buildings that require alteration of the building. The contractor will provide settlement monitoring data to VTA immediately upon completion of the field survey and use the data to assist in minimizing adverse effects along the tunnel alignment.	Program-wide	D	C		VTA/C	IC	The relevant contract packages and current design status is as follows: For CP-1 Systems, CP-3 Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: This measure did not apply in Q3 2024 because underground tunnels and stations construction has not commenced.									
Geology, Soils, and Seismicity/ Monitor Settlement Effects around Cut-and-Cover Excavations	Geology, Soils, and Seismicity	Monitor Settlement Effects around Cut-and-Cover Excavations	96	-MMRP-GEO-CNST-D	Vol-1, ROD	Monitor Settlement Effects around Cut-and-Cover Excavation	Monitor Settlement Effects around Cut-and-Cover Excavations: For the cut and cover activities, the contractor will perform building and ground surface monitoring prior to, during, and after construction to survey the effects of cut-and-cover activities on structures, historic buildings, and utilities. The contractor will mount survey monitoring points on all potentially affected structures and historic buildings, including the most susceptible structures, select utilities susceptible to settlement, and in representative locations within the limit of influence around the cut-and-cover excavations to monitor any effects of settlement. The contractor must obtain approval from VTA and the historic QP to install any monitoring devices or crack gauges on or in historic buildings that require alteration of the building. Survey monitoring points will be field surveyed by licensed land surveyors at a frequency determined by the preconstruction building survey or Condition Assessment Report (for historic buildings). The contractor will provide settlement field survey monitoring data to VTA immediately upon completion of the field survey. The data will be used to direct real-time modifications to shoring and ground treatment practices and procedures as appropriate to minimize adverse effects within the limit of influence around the cut-and-cover excavations.	Program-wide	D	C		VTA/C	IC	The relevant contract packages and current design status is as follows: For CP-1 Systems, CP-3 Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: This measure did not apply in Q3 2024 because underground tunnels and stations construction has not commenced.									
Geology, Soils, and Seismicity/ Implement Preconstruction Condition Surveys for Utilities	Geology, Soils, and Seismicity	Implement Preconstruction Condition Surveys for Utilities	97	-MMRP-GEO-CNST-E	Vol-1, ROD	Implement Preconstruction Condition Surveys for Utilities	Implement Preconstruction Condition Surveys for Utilities: The contractor will conduct preconstruction condition surveys of utilities deemed to be potentially at risk due to surface settlement or ground movement at BART Extension and TOD sites. The contractor will monitor major utilities deemed to be at risk during construction and will coordinate with utility providers prior to installation of utility monitoring points.	Program-wide	D	C		VTA/C	IC	The relevant contract packages and current design status is as follows: For CP-1 Systems, CP-3 Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: This measure did not apply in Q3 2024 because underground tunnels and stations construction has not commenced.									
Geology, Soils, and Seismicity/ Minimize Excavation Bottom Failure Impacts	Geology, Soils, and Seismicity	Minimize Excavation Bottom Failure Impacts	98	-MMRP-GEO-CNST-F	Vol-1, ROD	Minimize Excavation Bottom Failure Impacts	Minimize Excavation Bottom Failure Impacts: If excavation bottom fails due to bottom heave, piping, or blow-out, the contractor will implement the following measures. • Remove water found in the pervious sand layer via dewatering. • Install deep sheeting. The sheet pile may also function as a cut-off to prevent sand boiling at the bottom of excavation due to excessive hydrostatic pressure within the loose soils. • Based on the boring data, encountering of the loose soils at the foundation subgrade may be anticipated at isolated locations for excavation of the stations. Deeper shoring may be required to penetrate through the aquifer to prevent the occurrence of the sand boiling condition. Deep soil mixing may have to be considered under this condition if drivability of the shoring sheet pile through the dense to very dense sand at depths is a geotechnical concern due to the vibration and/or noise impact on the surrounding environment.	Program-wide	D	C	P	VTA/C	IC	The relevant contract packages and current design status is as follows: For CP-1 Systems, CP-3 Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: This measure did not apply in Q3 2024 because underground tunnels and stations construction has not commenced.									
Geology, Soils, and Seismicity/ Minimize Disturbance of Sensitive Deposits at the Excavation Subgrade	Geology, Soils, and Seismicity	Minimize Disturbance of Sensitive Deposits at the Excavation Subgrade	99	-MMRP-GEO-CNST-G	Vol-1, ROD	Minimize Disturbance of Sensitive Deposits at the Excavation Subgrade	Minimize Disturbance of Sensitive Deposits at the Excavation Subgrade: In areas where clay and saturated sand deposits are sufficiently disturbed during construction activities at the bottom of an excavation and soft and loose saturated soil deposits are encountered, VTA will ensure that the contractor constructs a working platform as described below. • Over-excavate 18 inches below the native subgrade. • Place a stabilizing geotextile fabric or a geogrid at the bottom of the over-excavation. • Backfill the over-excavation with Class 2 Aggregate Base, Structural Backfill, or other bridging material. • Overlap the ends of the geotextile fabric on top of the bridging material for a minimum distance of 2 feet.	Program-wide	D	C		VTA/C	IC	The relevant contract packages and current design status is as follows: For CP-1 Systems, CP-3 Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: In Q3 2024, design for minimization for disturbance of sensitive deposits is underway.									
Geology, Soils, and Seismicity/ Incorporate Design Specifications to Minimize Effects from Expansive Soils	Geology, Soils, and Seismicity	Incorporate Design Specifications to Minimize Effects from Expansive Soils	100	-MMRP-GEO-CNST-H	Vol-1, ROD	Incorporate Design Specifications to Minimize Effects from Expansive Soils	Incorporate Design Specifications to Minimize Effects from Expansive Soils: VTA will ensure that the following specifications are incorporated into the BART Extension's final design when encountering expansive soils: • Deepen foundations to below the zone of moisture fluctuation. • Use mat foundations that are designed to resist the deflections associated with expansive soil. • Design perimeter footings to a minimum depth of 24 inches below the lowest adjacent grade to reduce the impact from the uplift pressure in expansive soils. • For any expansive soil in the upper 18 inches of building pads, lime treat or replace with low to non-expansive soil with a Plasticity Index of 12 or less. • Use moisture barriers to minimize the variation of change in the moisture content within the expansive soil.	Program-wide	D	C		VTA/C	IC	The relevant contract packages and current design status is as follows: For CP-1 Systems, CP-3 Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: In Q3 2024, design to minimize effects from expansive soils is underway.									

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			Chrono #	Measure #					2024						
									Q3						
									Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post-construction (P)	Responsible Party		Compliance Status	
Geology, Soils, and Seismicity/ Stop Construction if Paleontological Resources are Discovered and Determine Appropriate Action	Geology, Soils, and Seismicity	Stop Construction if Paleontological Resources are Discovered and Determine Appropriate Action	101	-MMRP-GEO-CNST-1	-	Vol-1, ROD	Stop Construction if Paleontological Resources are Discovered	Stop Construction if Paleontological Resources are Discovered and Determine Appropriate Action: If suspected paleontological resources are encountered during grading and site preparation activities, the contractor will halt all work in the immediate vicinity of the find until a qualified paleontologist can evaluate the find and make recommendations. Paleontological resource materials may include resources such as fossils, plant impressions, or animal tracks preserved in rock. If the qualified paleontologist determines that the discovery represents a potentially significant paleontological resource, additional investigations and fossil recovery may be required to mitigate adverse impacts from implementation of the BART Extension. Construction will not resume until the resource-appropriate measures are recommended or the materials are determined to be not significant.	Program-wide	D	C	VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3 Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: Early works construction continued in Q3 2024 with site preparation, grading, and clearing and disposal of debris and excess/contaminated soils at the West Tunnel Portal. No paleontological resources were discovered at the West Tunnel Portal in Q3 2024. If paleontological resources are found, the contractor will halt work and a qualified paleontologist will evaluate the findings and make recommendations.	
Greenhouse Gas Emissions/ Implement Energy Efficiency Measures (for TOJD)	Greenhouse Gas Emissions	Implement Energy Efficiency Measures (TOJD)	102	-MMRP-GHG-A	-	Vol-1, ROD	Implement Energy Efficiency Measures (TOJD)	Implement Energy Efficiency Measures (for TOJD): TOJD energy efficiency shall be 15 percent better than the 2013 Title 24, Part 11 requirements or shall meet the Title 24, Part 11 requirements that are applicable at the time of issuance of the building permits for individual phases, whichever is more stringent.	TOJD		C	VTA/C	IC	TOD is not included in CP1 through CP4. Once TOD contracts are underway these measures will be addressed.	
Greenhouse Gas Emissions/ Participate in Food Waste Programs (for TOJD)	Greenhouse Gas Emissions	Participate in Food Waste Programs (TOJD)	103	-MMRP-GHG-B	-	Vol-1, ROD	Participate in Food Waste Programs (TOJD)	Participate in Food Waste Programs (for TOJD): Restaurants shall be required to participate 100 percent in any extant City food waste programs. This mitigation measure shall be included as a mandatory performance standard for all agreements with developers of the TOJDs.	TOJD			P	VTA/C	IC	TOD is not included in CP1 through CP4. Once TOD contracts are underway these measures will be addressed.
Greenhouse Gas Emissions/ Utilize Electrical Landscaping Equipment (for TOJD)	Greenhouse Gas Emissions	Utilize Electrical Landscaping Equipment (TOJD)	104	-MMRP-GHG-C	-	Vol-1, ROD	Utilize Electrical Landscaping Equipment (TOJD)	Utilize Electrical Landscaping Equipment (for TOJD): TOJDs shall include installation of electrical outlets near all maintained landscaping areas to allow for the use of electrical landscaping equipment. This mitigation measure shall be included as a mandatory performance standard for all agreements with developers of the TOJDs.	TOJD	D		VTA/C	IC	TOD is not included in CP1 through CP4. Once TOD contracts are underway these measures will be addressed.	
Greenhouse Gas Emissions/ Provide Preferential Parking for Electric Vehicles (for TOJD)	Greenhouse Gas Emissions	Provide Preferential Parking for Electric Vehicles (TOJD)	105	-MMRP-GHG-D-01	-	Vol-1, ROD	Provide Preferential Parking for Electric Vehicles (TOJD)	Provide Preferential Parking for Electric Vehicles (for TOJD): TOJDs shall provide preferential parking in all parking lots for electric vehicles and shall also provide charging equipment, as follows (MMRP-GHG-D-02 through D-03). This mitigation measure shall be included as a mandatory performance standard for all agreements with developers of the TOJDs.	TOJD	D		VTA/C	IC	TOD is not included in CP1 through CP4. Once TOD contracts are underway these measures will be addressed.	
Greenhouse Gas Emissions/ Provide Preferential Parking for Electric Vehicles- TOJD Residential Use	Greenhouse Gas Emissions	Provide Preferential Parking for Electric Vehicles (TOJD Residential)	106	-MMRP-GHG-D-02	-	Vol-1, ROD	Provide Preferential Parking for Electric Vehicles (TOJD Residential)	Provide Preferential Parking for Electric Vehicles- TOJD Residential Use: A total of 10 percent of the required parking spaces shall be provided with a listed cabinet, box, or enclosure and connected to a conduit that links the parking spaces to the electrical service in a manner approved by the building and safety official. Of the listed cabinets, boxes, or enclosures provided, 50 percent shall have the necessary electric vehicle supply equipment installed to provide active charging stations that are ready for use by residents. The remainder shall be installed at such time as they are needed for use by residents. Electrical vehicle batteries and charging technology may change substantially over the next 15 years. As such, the local jurisdiction shall have the discretion to modify the specific requirements for this measure over time, provided that 10 percent of the spaces have electrical service and 5 percent have active charging, depending on what the technology at the time requires.	TOJD	D		VTA/C	IC	TOD is not included in CP1 through CP4. Once TOD contracts are underway these measures will be addressed.	
Greenhouse Gas Emissions/ Provide Preferential Parking for Electric Vehicles- TOJD Commercial Use	Greenhouse Gas Emissions	Provide Preferential Parking for Electric Vehicles (TOJD Commercial)	107	-MMRP-GHG-D-03	-	Vol-1, ROD	Provide Preferential Parking for Electric Vehicles (TOJD Commercial)	Provide Preferential Parking for Electric Vehicles- TOJD Commercial Use: New commercial uses shall provide the electrical service capacity necessary as well as all conduits and related equipment necessary to serve 2 percent of the parking spaces with charging stations. Of these parking spaces, 50 percent shall initially be provided with the equipment necessary to function as online charging stations upon completion of development. The remainder shall be installed at such time as they are needed for use by customers, employees, or other users. Electrical vehicle batteries and charging technology may change substantially over the next 15 years. As such, the local jurisdiction shall have the discretion to modify the specific requirements for this measure over time, provided that 2 percent of the spaces have electrical service and 1 percent have active charging, depending on what the technology at the time requires.	TOJD	D		VTA/C	IC	TOD is not included in CP1 through CP4. Once TOD contracts are underway these measures will be addressed.	

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Env Doc Chapter / Mitigation Topic	Environmental Document Chapter	Mitigation Topic	MMRP Code		Source Document	Summary	Mitigation Measure	Location	Implementation				Quarter Mitigation Completed										
			Chrono #	Measure #					Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post-construction (P)	Responsible Party		Compliance Status	2024 Q3								
Hazardous Materials/ Prepare Remedial Action Plans	Hazardous Materials	Prepare Remedial Action Plans	108	-MMRP-HAZ-CNST-A	-	Vol-1, ROD	Prepare Remedial Action Plans	Project wide	D						<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: The Remedial Action Plan for the entire BSV2 Project which includes tunnel (CP-2), stations (CP-3) and maintenance yard (CP-4), was approved by the RWQCB for use on 8/3/2021. VTA CP-2 Contractor, KSTIV, as per the requirements of the Contaminant Management Plan and Remedial Action Plan, has submitted a Contaminant Management and Disposal Plan (CMDP) which provides guidelines on how Contractor will manage, handle, treat and dispose previously identified contaminated/hazardous materials found within the project limits. The CMDP has been approved by VTA (2023) and will be updated periodically once new information is acquired by KSTIV, such as analytical data from Downtown San Jose, Diridon, and 28th Street.</p> <p>In Q3 2024, early works construction activity at West Portal involved excavation and disposal of lead and asbestos impacted soil, as well as remediation of abandoned concrete vault.</p>								
Noise and Vibration/ Incorporate FTA Criteria Compliant Construction Noise and Vibration Specifications	Noise and Vibration	Incorporate FTA Criteria Compliant Construction Noise and Vibration Specifications	109	-MMRP-NV-CNST-A	-	Vol-1, ROD	Incorporate FTA Criteria Compliant Construction Noise and Vibration Specifications	Project wide	D	C		CC-CP2			<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: Section 01 81 20 Noise and Vibration Control has been included in the project specifications and is provided in all bid documents.</p> <p>THIS MEASURE IS COMPLETE FOR CP2. See Q2 2024.</p>								
Noise and Vibration/ Locate Equipment as Far as Feasible from Sensitive Sites	Noise and Vibration	Locate Equipment as Far as Feasible from Sensitive Sites	110	-MMRP-NV-CNST-B	-	Vol-1, ROD	Locate Equipment as Far as Feasible from Sensitive Sites	Project wide		C					<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: Early works construction continued in Q3 2024 with site preparation, grading, and clearing and disposal of debris and excess/contaminated soils at the West Tunnel Portal. All stationary equipment has been located as far as feasible from noise and vibration sensitive sites. Construction of grout batch plants, grout silos, mixers and pumps will be placed away from sensitive sites and will be acoustically treated if necessary.</p>								
Noise and Vibration /Construct Temporary Noise Barriers	Noise and Vibration	Construct Temporary Noise Barriers	111	-MMRP-NV-CNST-C	-	Vol-1, ROD	Construct Temporary Noise Barriers	Project wide: 28TH Street/Little Portugal (Alum Rock)	D	C					<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: Quarterly updates to the Construction Noise and Vibration Monitoring Plan (CNVMP) list the construction activities, noise levels, and measures taken to keep noise and vibration levels within the applicable thresholds.</p> <p>Early works construction continued in Q3 2024 with site preparation, grading, and clearing and disposal of debris and excess/contaminated soils at the West Tunnel Portal. No noise barriers /noise control blankets were required in the approved CNVP for the projected noise levels, and daily noise monitoring is performed to verify adherence to noise thresholds.</p>								

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Env Doc Chapter / Mitigation Topic	Environmental Document Chapter	Mitigation Topic	MMRP Code		Source Document	Summary	Mitigation Measure	Location	Implementation				Quarter Mitigation Completed			
			Chrono #	Measure #					Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post-construction (P)	Responsible Party		Compliance Status	2024 Q3	
Noise and Vibration/ Operate Equipment to Minimize Annoying Noise and Vibration	Noise and Vibration	Operate Equipment to Minimize Annoying Noise and Vibration	112	-MMRP-NV-CNSTD	Vol-1, ROD	Operate Equipment to Minimize Annoying Noise and Vibration	Program-wide	C	VTA/C	IC	<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3 Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: Early works construction continued in Q3 2024 with site preparation, grading, and clearing and disposal of debris and excess/contaminated soils at the West Tunnel Portal. Spot checks by civil & environmental inspectors confirmed the following measures have been implemented: • Electric equipment is being used instead of diesel-powered equipment, hydraulic tools instead of pneumatic impact tools, and electric instead of air- or gasoline-driven saws, where feasible. • Augering drill-rig for setting piles is being used in lieu of impact pile drivers, where feasible. • Equipment is used to minimize banging, clattering, buzzing, and other annoying types of noises, especially near residential areas during nighttime hours. • Idling equipment is turned off, whenever possible. • Haul truck beds are lined with rubber or sand to reduce noise, if needed and requested by VTA, and hoppers, conveyor transfer points, storage bins, and chutes are lined or covered with sound-deadening material. • During nighttime and weekends, strobe warning lights and/or back-up observers during any back-up operations are used, where permitted by the local jurisdiction.</p>					
Noise and Vibration/ Route Construction Trucks along Truck Routes Least Disturbing to Residents	Noise and Vibration	Route Construction Trucks along Truck Routes Least Disturbing to Residents	113	-MMRP-NV-CNSTE	Vol-1, ROD	Route Construction Trucks along Truck Routes Least Disturbing to Residents	Program-wide	C	VTA/C	IC	<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3 Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: The Construction Transportation Management Plan (CTMP) for CP2 Early Works-West Tunnel Portal has been approved and includes these items to reduce noise near sensitive receptors and near residences. The CTMP has been phased to accommodate the contractor's work schedule. Early works construction continued in Q3 2024 at the West Tunnel Portal, and truck loading/unloading zones and routes have been identified and followed to minimize disturbance to residents.</p>					
Noise and Vibration/ Secure Steel and Concrete Plates over Excavated Holes and Trenches	Noise and Vibration	Secure Steel and Concrete Plates over Excavated Holes and Trenches	114	-MMRP-NV-CNSTF	Vol-1, ROD	Secure Steel and Concrete Plates over Excavated Holes and Trenches	Program-wide	C	VTA/C	IC	<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3 Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: Early works construction continued in Q3 2024 with site preparation, grading, and clearing and disposal of debris and excess/contaminated soils at the West Tunnel Portal. No steel plates were required in Q3 2024. This measure will be implemented in future quarters as necessary.</p>					
Noise and Vibration/ Use Best Available Practices to Reduce Noise and Vibration	Noise and Vibration	Use Best Available Practices to Reduce Noise and Vibration	115	-MMRP-NV-CNSTG	Vol-1, ROD	Use Best Available Practices to Reduce Noise and Vibration	Program-wide	C	VTA/C	IC	<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3 Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: Early works construction continued in Q3 2024 with site preparation, grading, and clearing and disposal of debris and excess/contaminated soils at the West Tunnel portal. Quarterly updates to the Construction Noise and Vibration Monitoring Plan (CNVMP) list the construction activities, noise levels, and measures taken to keep noise and vibration levels within the applicable thresholds.</p>					


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			Chrono #	Measure #					Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post-construction (P)	Responsible Party	Compliance Status										
Noise and Vibration/ Adhere to Local Jurisdiction Construction Time Periods, to the Extent Feasible	Noise and Vibration	Adhere to Local Jurisdiction Construction Time Periods, to the Extent Feasible	116	-MMRP-NV-CNST-H	-	Vol-1, ROD	Adhere to Local Jurisdiction Construction Time Periods	Program-wide	D	C		VTA/C	IC	<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: Quarterly updates to the Construction Noise and Vibration Monitoring Plan (CNVMP) list the construction activities, noise levels, and measures taken to keep noise and vibration levels within the applicable thresholds. The Q2 2024 CNVMP update can be found in the project folder 109-135 NV-Noise & Vibration. The Construction Transportation Management Plan (CTMP) for CP2 Early Works-West Tunnel Portal has been approved and includes the approved work hours.</p> <p>Early works construction continued in Q3 2024 with site preparation, grading, and clearing and disposal of debris and excess/contaminated soils at the West Tunnel Portal, and KST adhered to local jurisdiction construction time periods to the extent feasible. Daily noise monitoring is performed to verify adherence to noise thresholds.</p>									
Noise and Vibration/ Perform Preconstruction Ambient Noise Measurements at All CSAs	Noise and Vibration	Perform Preconstruction Ambient Noise Measurements at All CSAs	117	-MMRP-NV-CNST-I	-	Vol-1, ROD	Perform Preconstruction Ambient Noise Measurements at Construction Staging Areas (CSA)	Program-wide	D	C		VTA/C	IC	<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: Preconstruction ambient noise monitoring was performed on December 1, 2022, and continued through December 10, 2022 at the West Portal.</p> <p>Further preconstruction noise monitoring will be performed in future quarters at the underground stations and East Tunnel portal.</p>									
Noise and Vibration/ Implement a Construction Noise Control and Monitoring Plan	Noise and Vibration	Implement a Construction Noise Control and Monitoring Plan	118	-MMRP-NV-CNST-J	-	Vol-1, ROD	Implement a Construction Noise Control and Monitoring Plan	Program-wide	D	C		VTA/C	IC	<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: Quarterly updates to the Construction Noise and Vibration Monitoring Plan (CNVMP) and the Construction Noise and Vibration Control Plan (CNVCP) list the construction activities, noise levels, and measures taken to keep noise and vibration levels within the applicable thresholds. Daily construction noise monitoring was initiated on April 22, 2024 and is provided to VTA each week.</p>									
Noise and Vibration/ Require Minimum Qualifications for the Acoustical Engineer	Noise and Vibration	Require Minimum Qualifications for the Acoustical Engineer	119	-MMRP-NV-CNST-K	-	Vol-1, ROD	Require Minimum Qualifications for the Acoustical Engineer	Program-wide	D	C		VTA/C	CC-CP2	<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: In Q4 2022, the CP-2 contractor submitted and approved the qualifications of an Acoustical Engineer in accordance with this measure.</p> <p>THIS MEASURE IS COMPLETE FOR CP2. See Q2 2024.</p>	CP2 - Q2 2024								

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												Mitigation Monitoring & Reporting Program											
Env Doc Chapter / Mitigation Topic	Environmental Document Chapter	Mitigation Topic	MMRP Code			Source Document	Summary	Mitigation Measure	Location	Implementation				Quarter Mitigation Completed									
			Chrono #	Measure #							Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post-construction (P)		Responsible Party	Compliance Status	2024 Q3						
Noise and Vibration/ Prohibit Operation of Noise-Generating Equipment Prior to Acceptance of Noise Control and Monitoring Plan	Noise and Vibration	Prohibit Operation of Noise-Generating Equipment Prior to Acceptance of Noise Control and Monitoring Plan	120	-MMRP-NV-CNST-L	-	Vol-1, ROD	Prohibit Operation of Noise-Generating Equipment Prior to Acceptance of Noise Plan	Program-wide	C		VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: The Construction Noise and Vibration Monitoring Plan (CNVMP) and the Construction Noise and Vibration Control Plan (CNVCP) were accepted in Q2 2024 prior to the start of construction. In Q3 2024 , early works construction continued with grading, excavation, backfill, utility work and installation of instrumentation at the West Tunnel Portal. No noise-generating equipment was operated on site prior to the acceptance of these plans. This measure will be implemented in future quarters at the underground stations and East Tunnel portal.										
Noise and Vibration/ Install Long-Term Noise Monitors at CSAs during all Construction Phases	Noise and Vibration	Install Long-Term Noise Monitors at CSAs during all Construction Phases	121	-MMRP-NV-CNST-M-01	M-01	Vol-1, ROD	Install Stationary Long-Term Noise Monitors at Construction Staging Areas (CSA)	Program-wide	D	C	VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: Long-term noise monitors have been installed at 2 locations by sensitive noise-receptors at the West Tunnel Portal. Noise monitoring data has been provided to VTA on a weekly basis in Q3 2024, and includes the construction activities, the daytime and nighttime noise levels, and spot-check noise monitoring locations and data. This measure will be implemented in future quarters at the underground stations and East Tunnel portal.										
Noise and Vibration/ Install Long-Term Noise Monitors at CSAs during all Construction Phases	Noise and Vibration	Install Long-Term Noise Monitors at CSAs during all Construction Phases	122	-MMRP-NV-CNST-M-02	M-02	Vol-1, ROD	Conduct Weekly Noise Sampling with Hand-Held Monitors	Program-wide	D	C	VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: In Q3 2024 , 30-minute hand-held noise monitoring data has been provided to VTA on a weekly basis, and includes the construction activities, the daytime and nighttime noise levels, and spot-check noise monitoring locations and data.										
Noise and Vibration/ Ensure Equipment is Pre-certified to Meet Noise Limits	Noise and Vibration	Ensure Equipment is Pre-certified to Meet Noise Limits	123	-MMRP-NV-CNST-N	-	Vol-1, ROD	Ensure Equipment is Pre-certified to Meet Noise Limits	Program-wide	D	C	VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: The Construction Noise and Vibration Control Plan (CNVCP) lists the construction activities, equipment to be used during these activities, and the noise levels for the activities and the equipment. The equipment listed in the CNVCP has been guaranteed by the vendor to meet the noise limits for the work location and project. The Q3 2024 quarterly update to the CNVCP included the construction activities, equipment, and noise levels for Q3 2024, confirming construction equipment does not exceed the noise limits.										

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			Chrono #	Measure #					Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post-construction (P)	Responsible Party		Compliance Status	2024 Q3								
Noise and Vibration/ Implement a Complaint Resolution Procedure	Noise and Vibration	Implement a Complaint Resolution Procedure	124	-MMRP-NV-CNST-0	-	Vol-1, ROD	Implement a Noise and Vibration Complaint Resolution Procedure	Program-wide	D	C		VTA/C	CC/CP2	IC	<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: The contractor developed a complaint resolution procedure in Q2 2024 to address noise and vibration concerns. A project representative's phone number is publicly available to contact for any concerns, and the representative will follow up with the person that filed the complaint to determine next steps and remediate any issues.</p> <p>Therefore, THIS MEASURE IS COMPLETE FOR CP2.</p>	CP2 - Q2 2024							
Noise and Vibration/ Implement a Construction Vibration Control and Monitoring Plan	Noise and Vibration	Implement a Construction Vibration Control and Monitoring Plan	125	-MMRP-NV-CNST-P-01		Vol-1, ROD	Prepare a Construction Vibration Control and Monitoring Plan	Program-wide	D	C		VTA/C	IC	<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: The Construction Noise and Vibration Monitoring Plan (CNVMP) and Construction Noise and Vibration Control Plan (CNVCP) were both accepted in Q2 2024. The plans outline monitoring equipment, procedures, measurement locations, frequencies, and durations, and will be updated quarterly, once construction begins, in accordance with Section 1.07.8.5 in 01 81 20 Noise and Vibration Control. Results will be documented and submitted to VTA as required in 01 81 20 Noise and Vibration Control.</p> <p>The contractor has installed continuous vibration monitoring equipment at 2 locations at the West Tunnel Portal in Q3 2024, and provides daily monitoring data to VTA on a weekly basis. Vibration levels did not exceed the thresholds for any sensitive structures, utilities, or buildings Q3 2024.</p>									
Noise and Vibration/ Implement a Construction Vibration Control and Monitoring Plan	Noise and Vibration	Implement a Construction Vibration Control and Monitoring Plan	126	-MMRP-NV-CNST-P-02		Vol-1, ROD	Halt Construction if Levels Exceed Allowable Vibration Limits	Program-wide	D	C		VTA/C	IC	<p>Please refer to the documentation under MMRP-NV-CNST-P-01.</p>									
Noise and Vibration/ Implement a Construction Vibration Control and Monitoring Plan	Noise and Vibration	Implement a Construction Vibration Control and Monitoring Plan	127	-MMRP-NV-CNST-P-03		Vol-1, ROD	Do Not Exceed the FTA Construction Vibration Damage Criteria	Program-wide	D	C		VTA/C	IC	<p>Please refer to the documentation under MMRP-NV-CNST-P-01.</p>									

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			Chrono #	Measure #							Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post-Construction (P)			Responsible Party	Compliance Status						
Noise and Vibration/ Implement a Construction Vibration Control and Monitoring Plan	Noise and Vibration	Implement a Construction Vibration Control and Monitoring Plan	128	-MMRP-NV-CNST-04	P-04	Vol-1, ROD	Measure Building Vibration in Vertical Direction and Utilities In Accordance with Meter Instructions For non-historic structures, if construction vibration exceeds the structural or nuisance threshold, the contractor must stop construction and adjust construction methods to meet appropriate vibration limits so that the threshold is not exceeded again.	Program-wide	D	C		VTA/C	IC	Please refer to the documentation under MMRP-NV-CNST-P-01.									
Noise and Vibration/ Implement a Construction Vibration Control and Monitoring Plan- Historic structures	Noise and Vibration	Implement a Construction Vibration Control and Monitoring Plan- Historic structures	129	-MMRP-NV-CNST-05	P-05	Vol-1, ROD	Notify Qualified Professional (QP) if Historic Building Construction Vibration Approaches Threshold Implement a Construction Vibration Control and Monitoring Plan- Historic structures: For historic structures, if construction vibration approaches the structural damage threshold, the historic QP will be notified immediately, in real time. If construction vibration exceeds the structural damage threshold, Contractor must notify the historic QP and VTA immediately, in real time, and stop all vibration-inducing construction work immediately to adjust methods. The contractor will adjust work methods and techniques to meet appropriate vibration limits so that the threshold is not exceeded again before work is restarted. In the event of inadvertent, construction-related damage to historic buildings, repairs will be conducted in accordance with the Secretary of the Interior's Standards for the Treatment of Historic Properties and consistent with 36 CFR 800.13(b). VTA and the historic QP will implement these repairs in consultation with FTA and SHPO.	Program-wide	D	C		VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: The Construction Noise and Vibration Monitoring Plan (CNVMP) and Construction Noise and Vibration Control Plan (CNVCP) were both accepted in Q2 2024. The plans outline monitoring equipment, procedures, measurement locations, frequencies, and durations, and will be updated quarterly, once construction begins, in accordance with Section 1.07.B.5 in 01 81 20 Noise and Vibration Control. Results will be documented and submitted to VTA as required in 01 81 20 Noise and Vibration Control. The contractor has installed continuous vibration monitoring equipment at 2 locations at the West Tunnel Portal in Q3 2024. Vibration levels did not exceed the thresholds for any historic buildings in Q3 2024. If construction activities approach the vibration thresholds near historic buildings, the historic QP will be notified, and if they exceed the thresholds work will cease and the contractor will notify the historic QP and VTA.									
Noise and Vibration/ Perform Vertical Direction Vibration Monitoring	Noise and Vibration	Perform Vertical Direction Vibration Monitoring	130	-MMRP-NV-CNST-Q	-	Vol-1, ROD	Perform Vertical Direction Vibration Monitoring Perform Vertical Direction Vibration Monitoring: The contractor will perform continuous vertical direction vibration (root mean square) monitoring on the ground at the nearest representative residential structure during muck extraction and supply train operations in the tunnels. These measurements will be repeated for a minimum of 1 week at approximately 1-mile intervals along the tunnel construction until it is demonstrated that the levels are below the FTA thresholds.	Program-wide	D	C		VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: The Construction Noise and Vibration Monitoring Plan (CNVMP) and Construction Noise and Vibration Control Plan (CNVCP) were both accepted in Q2 2024. The plans require continuous vertical direction vibration monitoring during muck extraction. In Q3 2024, no continuous vertical direction vibration monitoring was required because muck extraction has not yet commenced.									
Noise and Vibration/ Implement Preconstruction and Post-Construction Building Condition Surveys for Vibration	Noise and Vibration	Implement Preconstruction and Post-Construction Building Condition Surveys for Vibration	131	-MMRP-NV-CNST-01	R-01	Vol-1, ROD	Implement Preconstruction and Post-Construction Building Condition Surveys for Vibration Implement Preconstruction and Post-Construction Building Condition Surveys for Vibration: Prior to construction or release of the TBM and cut-and-cover construction contract(s), the contractor will survey all structures that may be potentially impacted by construction vibration and submit the results to VTA for approval. Preconstruction building condition surveys of the interiors and exteriors of these structures will be conducted by independent surveyors to assess the baseline condition of each property that could be affected by construction vibration. The surveys will include written and photographic (video and still) records, including written descriptions and photos of any cracks.	Program-wide	D	C	P	VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: No preconstruction building condition surveys were performed in Q3 2024. This measure will be implemented in future quarters as necessary.									

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Noise and Vibration/ Implement Preconstruction and Post-Construction Building Condition Surveys for Vibration-Historic Buildings	Noise and Vibration	Implement Preconstruction and Post-Construction Building Condition Surveys for Vibration-Historic Buildings	132	-MMRP-NV-CNST-R-02	Vol-1, ROD	Prepare Condition Assessment Reports for Historic Buildings	Implement Preconstruction and Post-Construction Building Condition Surveys for Vibration-Historic Buildings: For historic structures, the Condition Assessment Report in accordance with Section 106 will be prepared along with the preconstruction building condition surveys. The surveys will be performed prior to any vibration-inducing construction to establish baseline building conditions. The results of the preconstruction surveys will be utilized to establish the structure types and determine which vibration thresholds apply in consultation with a qualified structural engineer and a qualified architectural historian or a historic architect, as outlined in Mitigation Measure NV-CNST-P. Surveys will be conducted in all historic buildings or structures where vibration is expected to approach the applicable limit, and in non-historic buildings based on the building type and condition. VTA will determine the list of historic structures that may be affected by the project in consultation with a qualified structural engineer and the historic CP. Vibration will be monitored as required in Mitigation Measure NV-CNST-P to avoid adverse effects on properties during construction activities. The post-construction survey results will be compared with preconstruction condition surveys so that any construction vibration effects on structures can be assessed. For historic structures, a Condition Assessment Report in accordance with Section 106, will be conducted after construction is complete. In the event of inadvertent, construction-related damage to historic buildings, repairs will be conducted in accordance with the Secretary of the Interior's Standards for the Treatment of Historic Properties and consistent with 36 CFR 800.13(b). VTA and the historic CP will implement these repairs in consultation with FTA and SHPO.	Program-wide	D	C	P	VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: VTA received Condition Assessment Reports (CAR) for 5 locations in Q1 2023. In Q1 2024, VTA conducted surveys at 3 historic properties. In Q3 2024, the final CARs were completed for the 3 historic properties, and an additional historic property was updated to reflect the changed conditions of the building.									
Noise and Vibration/ Implement Measures to Reduce Vibration from Muck Extraction and Supply Trains	Noise and Vibration	Implement Measures to Reduce Vibration from Muck Extraction and Supply Trains	133	-MMRP-NV-CNST-S	Vol-1, ROD	Implement Measures to Reduce Vibration from Muck Extraction and Supply Trains	Implement Measures to Reduce Vibration from Muck Extraction and Supply Trains: The contractor will ensure that muck extraction and supply train operations do not result in groundborne vibration in excess of 72 VdB at nearby residences. Measures that can be implemented include, but are not limited to, placement of ballast mats underneath tracks on which the muck extraction train rides or the use of a conveyor in place of a train.	Tunnel Alignment		C		VTA/C	IC	The relevant contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork - This mitigation measure was included in the CP2 Conformed set under Vol 1 General Requirements, Section 01 81 20 Noise and Vibration Control; limited Notice to Proceed 1 issued 6/09/22. This measure was not required in Q3 2024 because muck extraction has not yet commenced.									
Noise and Vibration/ Implement Noise Reduction Treatments at Ancillary Facilities	Noise and Vibration	Implement Noise Reduction Treatments at Ancillary Facilities	134	-MMRP-NV-A	Vol-1, ROD	Implement Noise Reduction Treatments at Ancillary Facilities	Implement Noise Reduction Treatments at Ancillary Facilities: The contractor will implement noise reduction treatments at ancillary facilities such as tunnel ventilation shafts, pressure relief shafts, traction power substations, and emergency backup generators such that noise levels comply with applicable Cities of San Jose and Santa Clara noise criteria at nearby developed land uses. Treatments that will be implemented, if necessary, include but are not limited to: • Sound attenuators and acoustical absorptive treatments in ventilation shafts and facilities. • Sound attenuators for the tunnel emergency ventilation fans. • Perimeter noise walls (nominally an 8-foot-high wall) placed around emergency generators.	Systems (Ventilation Structures, Traction Power Substations, Emergency Backup Generators)		C		VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: This measure was not required in Q3 2024 because construction at ancillary facilities has not commenced.									
Noise and Vibration/ Reduce Groundborne Noise Levels	Noise and Vibration	Reduce Groundborne Noise Levels	135	-MMRP-NV-B	Vol-1, ROD	Reduce Groundborne Noise Levels	Reduce Groundborne Noise Levels: The contractor will implement an Isolated Slab Track (IST) as the mitigation strategy for groundborne noise. An IST is a form of floating slab track (FST). The IST system is constructed with a continuous elastomeric mat instead of discrete elastomeric pads that are typically used for an FST system. An IST can be designed to provide from 10 to 13 dBA of noise reduction. This strategy can also be used under a crossover. The locations for implementing this measure are shown in Tables 4.12-21 through 4.12-25 (summarized in DRBMP-NV-A). The project's final design will determine the specific mitigation strategy, which could include alternative strategies that similarly achieve the FTA groundborne noise criteria.	Tunnel Alignment		C		VTA/C	IC	The relevant contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork - This mitigation measure was included in the CP2 Conformed set under Vol 2 Design Criteria Manual (DCM) Section 7.5 Trackway; limited Notice to Proceed 1 issued 6/09/22. This measure was not required in Q3 2024 because construction of trackways has not commenced.									
Utilities/ Prepare a San Jose Water Supply Infrastructure Capacity Assessment and Participate in the Improvements	Utilities	Prepare a San Jose Water Supply Infrastructure Capacity Assessment	136	-MMRP-UTIL-A	Vol-1, ROD	Prepare a San Jose Water Supply Infrastructure Capacity Assessment	Prepare a San Jose Water Supply Infrastructure Capacity Assessment: VTA will coordinate with San Jose Water Company (SJWC) and prepare a Cooperative Agreement to establish the BART Extension Alternative's participation in improvements to offsite water supply infrastructure. The SJWC may conduct a detailed engineering study and flow analysis to determine the extent of these impacts. The contractor will implement capacity-relief upgrades during the utility relocation phase of construction in accordance with SJWC requirements. The contractor will ensure that all construction activities follow the provisions outlined in this environmental document, including implementation of Mitigation Measure TRA-CNST-A to reduce potential impacts and increase participation.	28th Street/Little Portugal Station (Alum Rock); Downtown San Jose Station; Diridon Station	D		P	VTA	IC	TOD is not included in CP1 through CP4. Once TOD contracts are underway these measures will be addressed.									

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Visual Quality and Aesthetics/ Minimize Light and Glare (for TOJD)	Visual Quality and Aesthetics	Minimize Light and Glare (for TOJD)	141	-MMRP-AES-A	-	Vol-1, ROD	Minimize Light and Glare (for TOJD)	TOJD	D	C			IC	TOD is not included in CP1 through CP4. Once TOD contracts are underway these measures will be addressed.									
Water Resources, Water Quality, and Floodplains/ Design and Implement Stormwater Control Measures	Water Resources, Water Quality, and Floodplains	Design and Implement Stormwater Control Measures	142	-MMRP-WQ-A	-	Vol-1, ROD	Design and Implement Stormwater Control Measures	Program-wide	D	C	P	VTA/C	IC	<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3 Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: A combined programmatic SWPPP as well as a site-specific SWPPP for West Tunnel Portal were updated and accepted in Q2 2024. The SWPPP for the West Tunnel Portal was amended in Q3 2024 to reflect changes in work phasing and site winterization.</p>									