

## BSV Phase II - Environmental Commitments Record 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
4500	Acronyms
	Arena Entertainment and Operations Committee
	Archaeological Resources Treatment Plan
	Bay Area Air Quality Management District
	California Department of Transportation
	Construction Education and Outreach Plan
	California High Speed Rail Authority
	Containment Management Plan
	Construction Outreach Management Program
	Consulting Parties
	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
SJRRC	San Joaquin Regional Rail Commission
SJWC	San Jose Water Company
TCP	Traffic Control Plans
VTA	Santa Clara Valley Transportation Authority
	Timeframe for Implementation letter codes:
С	Construction
D	Design
Р	Post Construction
R	lesponsible 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
	"gray row"  AEOC ARTP BAAQMD Caltrans CEOP CHSRA CMP COMP CP CTMP CWG ESCP FHA FRA FST FTA ISA IST NA PA RAPS ROD RWQCB SHPO SJRRC SJWC TCP VTA  C D P F F F F F F F F F F F F F F F F F F

Source Do	cument Ab	breviations
Santa Clar	a Valley Tr	ansportation Authority, Board of Directors
BOD ATT-A		8, Board Memorandum. Attachment A-Recommended Project Description
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Suppleme	ntal Enviro	nmental 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 Susta	inability Pr	ractices
VTA-Green		VTA Green Building Policy 400.004
VTA-Sust		VTA Sustainable Landscaping Policy CMA-CL-PL-7120

Valley Transportation								l Commitments Record						
Authority					Mi	itigation	Monitoring & Re	porting Program						
Env Doc Chapter / Mitigation Topic	Environmental Document Chapter	Mitigation Topic	Chrono#	MRP Cod	asure#	Source Document	Summary	Mitigation Measure	Location	Timeframe: Design (D)	Timeframe:Post-construction (P)	Responsible Party uoint	M	Quarter Mitigation Completed
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transportation	Develop and implement a Construction Education and Outreach Plan	1	-MMF TRA-C	RP- A- NST- 01	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 (EXDP) 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 ECDP after the environmental process complete and implement it prior to construction. The ECDP will ensure that VTA coordinates construction activities with establish a process that will address the concerns of businesses and their customers, property owners, residents, and commuters. The ECDP will be incorporated into the plans and specifications of all contracts through which the BART Extension will be implemented.  Critical components of the CEDP will linclude, but are not limited to, the following requirements (MMRP-TRA-CNST-A-O2 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-AO2 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	-MMF TRA-C	RP- A- NST- 02	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 K	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 Downstown-Dirion field office is currently under construction in conjunction with the new VTA Downstown 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	-MMF TRA-CI	RP- A- NST- 03	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 vtabart@vtabsv.com).	
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transportation	Develop and Implement a Construction Education and Outreach Plan	4	-MMF TRA-CI	RP- A- NST- 04	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 intensives 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 origing 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	-MMF TRA-C	RP- A- NST- 05	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	-MMF TRA-CI	RP- A- NST- 06	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	-MMF TRA-CI	RP- A- NST- 07	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	-MMF TRA-C	RP- A- NST- 08	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; • 2 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	-MMF TRA-C	RP- A- NST- 09	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 now; with the tunned 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	-MMF TRA-C	RP- A- NST- 10	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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Env Doc Chapter / Mitigation Topic	Environmental Document Chapter	Mitigation Topic	MN Chrono#	MRP Code  Measu	ıre#	Source Document	Summary	Mitigation Measure	Location	Timeframe: Design (D)	Timeframe: Construction (C)	Responsible Party	Complete States	Quarter Mitigation Completed
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transportation	Develop and Implement a Construction Education and Outreach Plan	11	-MMRP- TRA-CNST	A- T- 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	С	VTA	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	A- T- 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	С	VTA	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	A- T- 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	С	VTA	VTA designated project staff that will lead outreach within each work area and the CPZ 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	A- T- 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	С	VTA	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 inititated 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		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	С	VTA	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 dentify 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 inititated 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	A- T- 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	С	VTA	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	A- T- 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 discensinating information; responsive to various needs, including multiple languages and alternative formats; and timely, accurate, and results-oriented.	Program- wide	D	С	VTA	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-CNS1			Develop Construction Transportation Management Plan (CTMP)	levelop and Implement a Construction Transportation Management Plan: After the environmental process is complete and grize to beginning any construction activity, VTA will work with the Cities of San Joue 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 MART Extension. One element of the Master Cooperative Agreements with the cities prior to and during construction Outreach Management Program (COMP), One of the three parts of the COMP is Construction Transportation Management Plan (CTMP).  VTA and is General Engineering Control Indevelop and Implement the CTMP in partnership with the Cities of San Jose and Sarta Clara to coordinate location-specific circulation and access within and around the construction areas for all onces, including automobilies, trucks and construction vehicles, bicyclists, pedestrians, and public transportation such as buses and light rail. The CTMP will be target according to each of the ten major project elements listed from east to west along the alignment. East Tumed Portal, Julian Rock/Jab Street Station, 31sh Street Verification Structure, Downtourn San Jose Station, Diridon Station, Stockton Avenue Verification Structure, West Tumel Portal, Porta	Program- wide	D	c	VTA	IST developed a schedule and proposed thining of topics for internal VTA review and discussion with City of San Jose and Sharks.  There were 2 meetings with Stakeholders regarding CP2 CTMP1 and 5 meetings with stakeholders regarding CP2 CTMP1 in 2024 Q3.  ISTS 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 and Tunneling and Heavy Construction (On Hold)  4. East Portal and 28th 5s Early Work Construction and Tunneling and Heavy Construction (On Hold)  The remaining CTMPs will be developed in the order of 2, 4, and 3.	

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Env Doc Chapter / Mitigation Topic	Environmental Document Chapter	Mitigation Topic	MM Chrono#	MRP Code	ure#	Source Document	Vennma	Mitigation Measure	Location	Timeframe: Design (D)	Timeframe: Construction (c) and Timeframe:Post-construction (P) and and an arrangement of the construction (P)	Responsible Party	Quarter Mitigatic Complete
								duration of the project.  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.  Fluck 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-CNS		Vol-1, ROD	Develop Individual Traffic Control Plans (TCPs)	Develop and Implement a Construction Transportation Management Plan: After the CTMP has been approved, individual Traffic Control Plans (TCPs) will be developed for specific design elements a teach of the ten major project elements and throughout the 8-year duration of construction. The TCPs will address all modes including automobiles, trucks, and construction vehicles, bicyclists, pedestrians, and public transportation such as buses and light rail. The TCPs will be prepared by the contractor and approved by VTA and the applicable city prior to construction of the specific design element.	Program- wide	D	c	VTA	No TCPs were required for the construction work occurring at the West Portal site as part of the CP2 CTMPI in 03 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-CNS		Vol-1, ROD	Include Site-Specific Requirements in Traffic Control Plans (TCPs)	Develop and Implement a Construction Transportation Management Plan: The TCPs will include site-specific requirements such as the following.  Alternative access routes where practicable and wayfinding signage for all detours affecting roadway users, including vehicular traffic, trucks and construction whelides, 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 rerouting of bus contess 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 cowners, residents, and key stakeholders regarding lane and road closures that would affect parking, including both off-street and on-street parking.  Naps of all public valvailable 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	No TCPs were required for the construction work occurring at the West Portal site as part of the CP2 CTMP3 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-CNS C	-	Vol-1, ROD	Implement an Emergency Services Coordination Plan (ESCP)	Prepare and Implement an Emergency Services Coordination Plans After the environmental process is complete and prior to beginning any construction activity. VTA will work with the Clites of San Dose and Sharts Cart 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 policies services to develop the ESCP to millimite 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.  *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 time.  *VTA will work with the local fire and police departments on the detour routes.	Program- wide	D	С	VTA	A cooperative agreement has been created between VTA and the Cities of San Jose and Santa Clara, and an SESV milk created prior to heavy civil construction. Adjustments to the SESV milk 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-CNS	- ST	Vol-1, ROD	Provide Temporary Parking at Diridon	Provide Temporary Replacement Parking at Dividion (Dividon Station Only, NEPA ONLY MITIGATION MEASURE). VTA will provide 450 temporary replacement off-street parking spaces during construction to mitigate for parking impact 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	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 Stagring Area (CSA) will be activated. Responses to the REP 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	Improve Intersection at Coleman Ave. & Brokaw Rd.	implement intersection improvements at Coleman Avenue and Brokaw Road (for TOID): Change the signal control for Brokaw Road (the east and west leg; of this intersection) from Protected Left-Turn phasing to Spift Phase. Add a shared through/left-turn lane to the east and west approaches within the existing right-d-way. Change the existing shared through/light-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	d	c	VTA	c

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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.	Implement Intersection Improvements at Lafayette Street and Lewis Street (for TOJD): Shift the westbound approach lanes on Lewis Street to the south to allow for the current through/ight-turn lane to operate as a separate right-turn lane and a separate through lane. A shift of approximately 15 etc would increase the current through/ight-turn lane without 20 feet, which would allow adequate room for right-turning vehicles to proceed past vehicles traveling straight through the intersection and make the right turn onto northbound Lafayette Street. The westbound approach and receiving lanes would be slightly offset as a result, which can be addressed with dashed pavement markings across the intersection.	TOJD; Santa Clara		СР	VTA	κ	
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 1880 Southbound Ramps (for TOJD)	25	-MMRP- TRA-C		Vol-1, ROD	Improve Intersection at Coleman Ave. & I880 Southbound Ramps	Implement Intersection Improvements at the Intersection of Coleman Avenue and 1880 Southbound Ramps (for TOID): Convert the second (center) left-turn lane on the I-880 off-ramp (the Intersection's westbound approach) to a shared left/right-turn lane. Replace the lane control signs and the pavement markings on the off-ramp to reflect the new lane usage.	TOJD; Santa Clara		СР	VTA	к	
Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	26	-MMRP- AQ-CNST	- A- 01	Vol-1, ROD	Implement Dust Control Measures per Bay Area Air Quality Management District (BAAQMD)	Implement Dust Control Measures: VTA will require construction contractors to implement basic construction mitigation measures and additional construction mitigation measures recommended by Bay Area Air Quality Management District (BAAQMD) to reduce fugitive dust emissions. Emission reduction measures will include the following applicable measures (MMMP-AQ-CNST-A-02 through A-15, below) or similar performing measures (additional measures may be identified by BAAQMD or the contractor, as appropriate).	Program- wide		U	VTA C	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	- A- 02	Vol-1, ROD	Water Exposed Surfaces	Implement Dust Control Measures: The contractor will water all exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, unpaved access roads) two times per day or as needed to control dust. In times of drought, an effective combination of dust controls may be used in lieu of watering, such as soil binders/stabilizers, or watering may be used to form a crust on undisturbed areas.	Program- wide		С	VTA,	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 (IGC) has been selected and is preparing the three Design-Bid-Boulid 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	- A- - 03	Vol-1, ROD	Maintain Soil Moisture Content	Implement Dust Control Measures: The contractor will water all exposed surfaces at a frequency that will maintain a minimum soil moisture content of 12 percent. Moisture content can be verified by lab samples or a moisture probe, although such verification is typically visual. No visible dust emissions are permitted to leave the construction area.	Program- wide		С	VTA,	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 (EGC) has been selected and is preparing the three Design-Bid Suild 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	- A- 04	Vol-1, ROD	Cover or Moisten Haul Trucks	Implement Dust Control Measures: The contractor will cover or moisten all haul trucks that transport soil, sand, or other loose material offsite such that there are no dust emissions.	Program- wide		С	VTA 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 (EGC) 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 hall 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	- A- 05	Vol-1, ROD	Use Wet Power Vacuum Street Sweepers	Implement Dust Control Measures: The contractor will remove all visible mud or dirt track-out onto adjacent public roads using wet power vacuum street sweepers at least once per day, or more frequently if needed to control track-out during active soil hauling operations. The use of dry power sweeping is prohibited.	Program- wide		c	VTA,	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 deneral Engineering Consultant (IGC) 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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					Τ			Implement Dust Control Measures: The contractor will limit all vehicle speeds on unpaved roads to 15 mph.					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	
Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	31	-MMRP- AQ-CNST-	A- 06	Vol-1, ROD	Limit Vehicle Speed		Program- wide		Ċ	VTA/ C	Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.	
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		С	VTA/ C	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Sartat Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (ECP) has been selected and is preparing the three Design-Bit-Boild 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 claring and disposal of eibris and excess/contaminated soils at the West Tunnel Portal. Paving operations have not beginn on site, and building pask will be established after grading operations have been completed. Therefore this measure will be implemented in future quarters.	
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 compaints. 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	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 (EGC) has been selected and is preparing the three Design-8ii-8 baild plan, specification, and estimate (PS&E) packages.  CP For CP-2 Tunnel and Trackwork: THIS MEASURE IS COMPLETE for CP2, See Q2 2024.	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	The four contract packages and current design status is as follows: For CP-1 Syrtem, CP-3 Newshild Yard/Sarta Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (ESC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) package.  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.	
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	Early works construction continued in Q3 2024 with site preparation, grading, and clearing and disposal of debirs, and excess/contaminated soils at the West Tunnel Portal. Fencing and screening continued through Q3 2024.	
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	The four contract packages and current design status is as follows:  For CP-1 Systems, CP-3-Newbild Pard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (ESC) has been selected and is preparing the three Design-Bid-Biuld 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 solis 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.	

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r Quality/ plement Dust Control Measures	Air Quality	implement Dust Contro Measures	37	-MMRP- AQ-CNST-			Ground- ng Activities	Implement Dust Control Measures: The contractor will limit the simultaneous occurrence of excavation, grading, and ground-disturbing construction activities in the same area. The contractor will phase activities to reduce the amount of disturbed surfaces at any one time.	Program- wide		c	VTA/ 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 (IGEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages, For CP-2 Tunnel and Trackwork: Entity works construction continued in Q3 2024 with site preparation, grading, and clearing and disposal of debris and excess/contaminated soils at the West Tunnel Portral. Construction activities were conducted in phases through different sections of the site to reduce dust emissions and increase site safety and access.	
r Quality/ plement Dust Control Measures	Air Quality	Implement Dust Contro Measures	38	-MMRP- AQ-CNST-			nstruction nces/Exits	Implement Dust Control Measures: All trucks and equipment, including their tires, will use designated construction entrances/exits that have been constructed with rock, rumble strips, or other features to remove dirt from tires.	Program- wide		c	VTA/ 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 (EGC) has been selected and is preparing the three Design-Bid-Baildi plan, specification, and estimate (PS&E) packages.  For CP-2 Tunnel and Tractwork: Early works construction continued in Q3 2024 with site preparation, grading, and dearing and disposal of debris and excess/contaminated soils at the West Tunnel Portal. Three construction entrances/exists have been installed - one at Brokaw Road, one at Newhall Drive, and one at Newhall Street. The Entrances/exists have been installed - and accumulated sediment is regularly cleaned out to prevent trackout onto the public roadways.	
r Quality/ plement Dust Control Measures	Air Quality	Implement Dust Contro Measures	39	-MMRP- AQ-CNST-		ol-1, Erosion	ediment and n Control evices	Implement Dust Control Measures: The contractor will install sediment and erosion control devices on sites with a slope greater than 1 percent to prevent silt runoff from entering public roadways.	Program- wide		c	VTA/ 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 (EGC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork:  Error 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.	
· Quality/ plement Dust Control Measures	Air Quality	implement Dust Contro Measures	40	-MMRP- AQ-CNST-		Operation	Dust During n of Concrete h Plants	Implement Dust Control Measures: The contractor will include the following control measures as consistent with BAAQMD permitting requirements during the operation of concrete batch plants:  of the construction contractor will ensure that the outlet PMID grain loading for the baghouse will not exceed 0.01 grains per dry standard cubic foot.  of the construction contractor will properly maintain the baghouse and keep the baghouse in good operating condition at all times. The construction contractor will equip the baghouse with a device for measuring the pressure drop across the baghouse.  of the construction contractor will not discharge an air contaminant into the atmosphere for a period or periods aggregating more than 3 minutes in any hour, which is as dark or darker than a Kingelmann 1.0.  of the construction contractor will abstractosciples, converyors and unpaved roads as necessary with water sprays to maintain compliance with BAAQMD rules and regulations.	Program- wide		c	VTA/ 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 (EGC has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.  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.	
r Quality/ se U.S. Environmental Protection gency (EPA) Tier 4 or cleaner ggines	Air Quality	Use U.S. Environmental Protection Agency (EPA) Tier 4 or cleaner engines	41	-MMRP- AQ-CNST- B		OD Enviro Protecti (EPA) Tier	e U.S. onmental ion Agency 4 or Cleaner igines	Use U.S. Environmental Protection Agency (EPA) Tier 4 or cleaner engines: VTA will ensure that all construction contracts tisplated that all off-road, disender-powered equipment used furing construction will be equipmed with EPA Tier 4 or cleaner engines, except for specialized construction equipment for which an EPA Tier 4 engine is not available. This mittigation measure assumes emission reductions compared with emissions from an average fleet-wide Tier 2 engine.	Program- wide		c	VTA/ C	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newbild Yard/Sarta Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (IGEC) has been selected and is preparing their Design Bid-Build plan, specification, and estimate (PS&E) packages.  For CP-2 Tunnel and Trackwork:  ET his militation measure was included in the CP2 Conformed set under Vol 1 General Requirements, Section 0.15 70 Demporary 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.	

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Air Quality/ Maintain Construction Equipment	Air Quality	Maintain Construction Equipment	42	-MMR AQ-CN: C		Vol-1, ROD	Maintain Construction Equipment	Maintain Construction Equipment: The contractor will maintain and properly tune all construction equipment in accordance with the manufacturer's specifications. A certified mechanic will check all equipment to determine proper running condition prior to operation.	Program- wide		O	VTA/ 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-8u-8u-lid plan, specification, and estimate (PS&E) packages.  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.	
Air Quality/ Minimize Idling Times	Air Quality	Minimize Idling Times	43	-MMR AQ-CN: D		Vol-1, ROD	Minimize Idling Times	Minimize (dling Times: The contractor will ensure that all idling times are minimized, either by shutting equipment off when not in use or by reducing the maximum idling time to 5 minutes (as required by California Airborne Toxic Control Measures, Ittle 3, Section 2485 of the California Code of Regulations). The contractor will provide clear signage for construction workers at all access points.	Program- wide		C	VTA/ C	The four contract packages and current design status is as follows: for CP-1 Systems, CP-3-Newhall Yard/Sarnt Clara Station, and CP-4 Underground stations, a General Engineering Consultan (GEC) has been elected and its preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. for CP-2 Tunnel and Tracknows: Early works construction continued in 03.2024 with site preparation, grading, and clearing and disposal of debris and excess/contaminated soils. Environmental inspector spec checks ensured equipment and vehicles minimized idling times by either shutting engines off when noticed, or reduced to 5 minutes.	
Air Quality/ Use Equipment Meeting AR8 Certification Standards	Air Quality	Use Equipment Meetin ARB Certification Standards	g 44	-MMR AQ-CN: E		Vol-1, ROD	Use Equipment Meeting Air Resources Board (ARB) Certification Standards	Use Equipment Meeting ARB Certification Standards: All contractors will use equipment that meets ARB's most recent certification standard for off-road heavy-duty diesel engines.	Program- wide		С	VTA/ 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 Coustant (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:  CE acity works construction continued in Q3 2024 with site preparation, grading, and  clearing and disposal of debris and excess/contaminated solis at the West Tunnel  Portal. KST provided documentation to VTA that all equipment used on site meets  ARB's most recent certification standard.	
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	-MMR AQ-CN: F		Vol-1, ROD	Ensure Diesel Trucks Comply with U.S. Environmental Protection Agency (EPA) Emissions Standards	Ensure Heavy-Duty Diesel Trucks Will Comply with EPA Emissions Standards: VTA and contractors will ensure that construction contracts stipulate that all on-road, heavy-duty diesel trucks with a gross vehicle weight rating of 19,500 pounds or greater will comply with EPA 2007 on-road emission standards for PMI0 and NO (0.1 and 0.20 gram per brake horsepower hour, respectively). These PMI0 and NOX standards were phased in through the 2007 and 2010 mode wars on a percentage-of-sales basic (50 percent of sales for 2007 to 2009 and 100 percent of sales in 2010). This mitigation measure assumes that all on-road, heavy-duty diesel trucks will be model year 2010 and newer and compliant with EPA 2007 on-road emission standards.			C	VTA/ 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 (ECP) 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 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.	
Air Quality/ Use Low-Sulfur Fuel	Air Quality	Use Low-Sulfur Fuel	46	-MMR AQ-CN: G		Vol-1, ROD	Use Low-Sulfur Fuel	Use Low-Sulfur Fuel: The contractor will use low-sulfur fuel (diesel with 15 parts per million or less) in all construction equipment.	Program- wide		С	VTA/ C	Low-sulfur diesel fuel has been a requirement in California since 2012.  THIS MEASURE IS COMPLETE AND CLOSED. See Q2 2024.	Q2 2024
Air Quality/ Locate Construction Areas Away from Sensitive Receptors	Air Quality	Locate Construction Areas Away from Sensitive Receptors	47	-MMR AQ-CN		Vol-1, ROD	Locate Construction Away from Sensitive Receptors	Locate Construction Areas Away from Sensitive Receptors: The contractor will locate all construction equipment and staging areas away from sensitive receptors and fresh-air intake vents to buildings and air conditioners, where feasible.	Program- wide		C	VTA/ C	The four contract packages and current design status is as follows: for CP-1 System, CP-3 Newhall MCS/Sarra Clans 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 Trackovnt:  E alry 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.	

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								Use Low-Volatile Organic Compound (VOC) Coatings: All contractors will use low-VOC (i.e., ROG) coatings that are beyond BAAQMO requirements (i.e., Regulation 8, Rule 3: Architectural Coatings (VOC content is limited to 100 grams per litter for first coating and 150 grams per litter for non-falls coating).		Timel	Timeframe	Res	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 (ECE) has been selected and is preparing	
ir Quality/ se Low-Volatile Organic ompound (VOC) Coatings	Air Quality	Use Low-Volatile Organic Compound (VOC) Coatings	48	-MMRI AQ-CNS I		Vol-1, ROD	Use Low-Volatile Organic Compound (VOC) Coatings		Program- wide	c	S	VTA/ C	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 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.	
ological Resources and etlands/ oroid Nesting Bird Season	Biological Resources and Wetlands	Avoid Nesting Bird Season	49	-MMRI BIO-CN A		Vol-1, ROD	Avoid Nesting Bird Season	Avoid Nesting Bird Season: To the extent feasible, the contractor will schedule all construction (particularly tree removal and pruning) activities to avoid the bird nesting season (January 1-August 31). If such activities are scheduled to take place outside the nesting season, the contractor will avoid all effects on nesting birds, including raptor, protected under Migratory Bird Treaty Act (MBTA) and California Fish and Game Code. The nesting season for most birds in Santa Clara County typically extends from February 1 through August 31, although some birds (e.g., raptors and hummingbirds) may nest as early as January 1 if a period of favorable weather persists.	Program- wide	c	c	VTA/ 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 (ECE) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&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.	
ological Resources and etlands/ induct construction/Predisturbance rveys for Nesting Birds	Biological Resources and Wetlands	Conduct Preconstruction/Predi urbance Surveys for Nesting Birds	ist 50	-MMRI BIO-CN B		Vol-1, ROD	Conduct Preconstruction/Predi sturbance Surveys for Nesting Birds	Conduct Preconstruction/Predisturbance Surveys for Nesting Birds: if it is not possible to schedule construction activities that involve tree removal or pruning between September 1 and annuary 1, then a qualified biologist will conduct preconstruction/predisturbance surveys for nesting brids to ensure that no nests will be disturbed during construction activities. These surveys will be conducted no more than 48 hours prior to the initiation of construction. During each survey, a qualified biologist will inspect all potential nesting habitats (e.g., trees, shrubs, gresshands, and buildings) in accessible areas within 300 feet of impact areas for raptor nests and within 100 feet of impact areas for nests of non-raptors. If an active nest (i.e., a nest white ggs or young, or any completed raptor nest) is found sufficiently dose to work areas to be disturbed by these activities, the biologist, in consultation with the California Department of Fish and Wildlife (CDPW), will determine the extent of a disturbance-free buffer zone to be established around the nest (typically 300 feet for other species), to ensure that no nests of species protected by the M8TA and California Fish and Game Code will be disturbed as a result of construction activities.	Program- wide	D	c	VTA/ C	Please refer to the documentation under MMRP-8IO-CNST-A.	
iological Resources and letlands/ onduct Preconstruction Surveys or Roosting Bat and Implement rotective Measures- Trees	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Trees	51	-MMRI BIO-CN	P- C- IST 01	Vol-1, ROD	Conduct Preconstruction Surveys for Roosting Bats	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures-Trees: If tree removal or trimming cannot be conducted between September 15 and October 30, qualified biologists will examine trees for suitable but-contain plabital before tree removal or trimming. The biologists will identify high-quality habitat features (e.g., large tree cavities, basal hollows, loose or peeling bark, larger snags, palm trees with intact thatch) and search the area around these features for bats and bat signs (e.g., guano, culled insect parts, stainling, Riparian wooldan, orchards, and stands of mature broadled free are considered potential habitat for solitary foliage-roosting bat species. Because signs of bat use are not easily found, and trees cannot be completely surveyed for bat roots, VTA will implement the protective measures listed below (in MMRP-BIO-CNST-C-02 through C-06) for trees containing high-quality habitat features.	Program- wide	D	<b>E</b>	VTA/ 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 Gerean Engineering Consultant (ECF, Dats been selected and is preparing the three Design-Bid-Bidl Bidl plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: A roosting bat survey was performed on July 15, 2024 prior to tree trimming and or 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.	
iological Resources and Vetlands/ onduct Preconstruction Surveys or Roosting Bat and Implement rotective Measures- Trees	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Trees	52	-MMRI BIO-CN	P- C- IST 02	Vol-1, ROD	No Disturbance to Bat Roosting Trees Between April 1 and September 15	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures-Trees: The contractor will not remove or disturb trees providing bat roosting habitat between April 1 and September 15 (the maternity period) to avoid effects on pregnant females and active maternity roosts (whether colonial or solitary).	Program- wide	D	c	VTA/ C	Please refer to the documentation under MMRP-8IO-CNST-C-01.	
iological Resources and Vetlands/ onduct Preconstruction Surveys or Roosting Bat and Implement rotective Measures- Trees	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Trees	53	-MMRI BIO-CN	P- C- IST 03	Vol-1, ROD	Remove Bat Roosting Trees between September 15 and October 30	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures. Trees: The contractor will limit the removal of trees that provide but roosting habitat to between September 15 and October 30, which corresponds to when bats have not yet entered torpor or would be caring for nonvolant young (i.e., young that are unable to fly).	Program- wide	D	2	VTA/ C	Please refer to the documentation under MMRP-BIO-CNST-C-01.	

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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	C- 04	Vol-1, ROD	Remove Trees in Pieces	Conduct Preconstruction Surveys for Roosting Bat and implement Protective Measures-Trees: The contractor will remove trees in pieces rather than felling an entire tree.	Program- wide	D C	,	VTA/ C	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	C- 05	Vol-1, ROD	Ensure Maternity Roost is Undisturbed until September 15	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures-Trees: If a maternity roost is found, whether solitary or colonial, the contractor will ensure that roost remains undisturbed until September 15 or until a qualified biologist has determined the roost is no longer active.	Program- wide	D C	,	VTA/ C	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	C- 7 06	Vol-1, ROD	Biologists to Monitor Tree Removal	Conduct Preconstruction Surveys for Roosting Bat and implement Protective Measures- Trees: if avoidance of non- maternity roost trees is not possible, and tree removal or trimming must occur between October 30 and August 31, qualified biologists will monitor tree trimming/removal of the habitat. If possible, tree trimming or removal almould occur in the late afternoon or evening when it is close to the time that bats would normally arouse. Prior to trimming or removal of trees providing suitable roosting habitat, the contractor will shake each tree gently and allow several minutes to pass before felling trees or removing limbs to allow bats time to arouse and leave the tree. Biologists should search downed vegetation for dead and hijured bats. The contractor will report the presence of dead or injured bats that are species of special concern to CDPW. The biologist will prepare a biological monitoring report, which will be provided to VTA and CDFW.	Program- wide	D C	,	VTA/ C	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	C- 07	Vol-1, ROD	Conduct Roosting Bat Surveys at Buildings	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings: Prior to the building removal or demolition, qualified biologists will conduct daytime surveys to assess the building(s) for potential bat roosting habitat, and to look for bats and bat sign. Qualified biologists will now knowledge of the natural history of the specied student could occur and sufficient experience determining bat occupancy in buildings and bat survey techniques. The biologists will examine both the inside and outside of the building for potential roosting habitat, as well as roots of entry to the buildings. The biologists will note and map on drawings of the buildings the locations of any roosting bats, signs of bat use, and entry and early points. The biologists will also photograph roost site as feasible. The habitat assessment suverys should be conducted as far in advance of demolition as possible to allow time for planning and coordinating with CDFW, should bats be found.  Depending on the results of the habitat assessment, VTA and its representatives will take the following steps (MMRP-BIO-CNST-C-08 through C-18).	Program- wide	D C	,	VTA/ C	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.  On 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	C- 08	Vol-1, ROD	Conduct Roosting Bat Surveys Within 24 Hours of Building Demolition	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures-Buildings: If the building(s) can be adequately assessed (i.e., all areas of the building can be examined) and no habitat or limited habitat for crosting bats is present and no signs of bat use are present, qualified biologists will conduct a preconstruction survey of the interior and exterior of the building(s) within 24 hours of demolition. If bats are found roosting during the preconstruction survey, biologists will contact CDFW for direction on how to proceed.	Program- wide	D C	,	VTA/ C	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	C- 09	Vol-1, ROD	Conduct Roosting Bat Surveys Within 24 Hours of Building Demolition	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures-Buildings: If moderate or high potential habita is present but there are no signs of but use, VT-will implement measures under the guidance of a qualified bat biologist to exclude bats from using the building(s) as a roost site, such as sealing off entry points. Prior to installing exclusion measures, qualified biologists will exarvey the building(s) to ensure than to bat are present. Additionally, biologists will conduct a preconstruction survey of the interior and exterior of the building(s) within 24 hours of demolition to confirm that no bats are present. If bats are found roosting during the preconstruction survey, biologists will contact CDPW for direction on how to proceed.	Program- wide	D C	,	VTA/ C	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	C- 10	Vol-1, ROD	Implement Roosting Bat Protective Measures	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures-Buildings: If moderate or high potential habitat is present and bats or bat sign are observed, or if exclusion measures are not installed as described above, or the buildings) provides suitable habitat but could not be adequately assessed, VTA will implement the following protective measures (MMRP-BIO-CNST-C-11 through C-13).	Program- wide	D C	,	VTA/ C	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	C- 11	Vol-1, ROD	Conduct Follow-Up Roosting Bat Surveys at Buildings	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures-Buildings: Biologists will conduct follow-up surveys to determine if bats are still present. If species identification is required by CDFW, biologists will use night vision goggles and active acoustic monitoring using full spectrum bat detectors during the surveys. VTA will determine a survey plan (number, timing, and type of surveys) in coordination with CDFW.	Program- wide	D C	,	VTA/ C	Please refer to the documentation under MMRP-BIO-CNST-C-07.	

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Env Doc Chapter / Mitigation Topic	Environmental Document Chapter	Mittigation Topic	Min Chrono#	MRP Code	ure#	Source Document	Summary	Mitigation Measure	Location		Timeframe: Construction (C)	Responsible Party uoist	2024 Q3	Quarter Mitigation Completed
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-CNS		Vol-1, ROD	Install Bat Roosting Exclusion Measures	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures-Buildings: Based on the timing of demolition, the extent of bat sign or occupied habitat, and the species present (if determined), the qualified biologists will work with VTA and CDFW to develop a plan to discourage or exclude but use prior to demolition. The plan many include installing exclusion measures or using light or other means to deter bats from using the building to roost.	Program- wide	D	c	VTA/ C	Please refer to the documentation under MMRP-8IO-CNST-C-07.  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	63	-MMRP- BIO-CNS		Vol-1, ROD	Conduct Roosting Bat Surveys Within 24 Hours of Building Demolition	Conduct Preconstruction Surveys for Roosting Bit and Implement Protective Measures-Buildings: Biologists will conduct a preconstruction survey of the interior and exterior of the building within 24 hours of demolition.	Program- wide	D	С	VTA/ C	Please refer to the documentation under MMRP-BIO-CNST-C-07.  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	64	-MMRP- BIO-CNS		Vol-1, ROD	Implement Roosting Bat Protective Measures	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures-Buildings: Depending on the species of bats present, size of the bat roost, and timing of the demolition, additional protective measures may be necessary. If Au dietermine appropriate measures in coordination with CDPW. These measures may include those listed below (MMRP-BIO-CNST-C-15 through C-17).	Program- wide	D	c	VTA/ C	Please refer to the documentation under MMRP-8IO-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-CNS		Vol-1, ROD	No Building Demolition While Bats Are Present	Canduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures-Buildings: To avoid effects on maternity colonic or hilternating bats, the contractor will not demolish a building while bats are present, generally between April 1 and September 15 (maternity season) and from October 30 to March 1 (hibernation).	Program- wide	۵	С	VTA/ C	Please refer to the documentation under MMRP-BIO-CNST-C-07.  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	66	-MMRP- BIO-CNS		Vol-1, ROD	Only Remove Roosting Building Habitat Prior to Hibernation	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures-Bulldings: The contractor will remove only roosting habitat following the maternity season and prior to bibarration, generally between September 15 and October 30, unless the contractor first installs exclusionary devices (as described below). The contractor may use other measures, such as using lights to deter bat roosting, if developed in coordination with and approved by CDFW.	Program- wide	D	С	VTA/ C	Please refer to the documentation under MMRP-BIO-CNST-C-07.  C	
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-CNS		Vol-1, ROD	Install Roosting Bat Exclusion Devices	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures-Bulldings: The contractor will install exclusion devices before the maternity season and prior to hibernation, generally from March 1–30 or September 15–October 30 to preclude bats from occupying a roost site during demolition. Exclusionary devices will only be installed by or under the supervision of an experienced bat biologist.	Program- wide	D	c	VTA/ C	Please refer to the documentation under MMRP-BIO-CNST-C-07.  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	68	-MMRP- BIO-CNS	- С- Т 18	Vol-1, ROD	Provide Compensatory Mitigation for Roosting Bat Habitat	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures-Buildings: CDFW may require compensatory mitigation for the loss of roosting habitat depending on the species present and size of the bat roost. Compensation, if required, will be determined in consultation with CDFW, and may include construction and monitoring of suitable replacement habitat on or near the BART Extension site.	Program- wide	D	c	VTA/ C	Please refer to the documentation under MMRP-8IG-CNST-C-07.	

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Env Doc Chapter / Mitigation Topic	Environmental Document Chapter	Mitigation Topic	Chrono#	MRP Code	e#	Source Document	Summary	Mitigation Measure	Location		Timeframe: Construction (C) and Timeframe: Post-construction (P)	Responsible Party	2024 Q3	Quarter Mitigation Completed
Biological Resources and Wetlands/ Protect Riparian Habitat	Biological Resources and Wetlands	Protect Riparian Habitat	69	-MMRP- BIO-CNST- D		Vol-1, ROD	Protect Riparian Habitat	Protect Riparian Habitat: VTA will design all BANT Extension facilities to avoid temporary and permanent adverse effects on riparian habitat. VTA will signify as environmentally sensitive areas on plans all riparian forest areas identified along the Guadaluge River and Los Gatos Creek and will ensure such habitat its marked with protective or ange fencing or flagging during construction to avoid disturbance or accidental intrusion by workers or equipment. Contractors will not use night lighting for construction activities and staging in the riparian area.	Guadalupe River ; Los Gatos creek		c	VTA/ 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 (EGC) has been selected and is preparing the three Design-Bitd shuld plan, specification, and estimate (PS&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 Mesting Surveys and Determine Appropriate Action	Biological Resources and Wetlands	Conduct Preconstruction Tricolored Blackbird Nesting Surveys and Determine Appropriate Action	70	-MMRP- BIO-CNST- E		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 Syears. However, to avoid direct effects of construction activities on potential nesting tricolored blackbird colonies, IVA will implement the following procedures. This mitigation measure incorporates survey, avoidance, and minimization guidelines taken directly from Condition 17 of the Santa Clara Valley Halstitz Plant (SCHV) [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, thisties, or nettles). If potential nesting substrate is found V.VT may review the construction staging areas to avoid all areas within a 250 of buffer around the potential nesting habitat, and biologists will conduct appropriate surveys. If VTA chooses not to avoid the potential inesting habitat and the 250-foot buffer, biologists will conduct additional nesting surveys.	N/A	N/ A	i/ N/ A 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 Fadilty): To avoid or minimize direct effects of construction activities on burrowing owls, VTA will implement the procedures described below (MMMP-BIO-CNST+02 to F-IS). This miligation measure incorporates survey, avoidance, and minimization guidelines taken directly from Condition 15 of the SCVHP (SCVHA 2012).	Newhall Maintenanc e Facility	D	с	VTA/ 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 Mainternance 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 Fealettly). 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 active.  To maximize the likelihood of detecting owls, the preconstruction survey will last a minimum of 3 hours. The survey will begin 1 hour before survise and continue until 1 hours after sunrise (3 hours total) or begin 2 hours before sunset and continue until 1 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 sovid 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 Maintenanc e Facility	D	c	VTA/ C	THIS MEASURE IS COMPLETE AND CLOSED. See Q2 2024.	Q2 2024
Biological Resources and Wetlands/ Conduct Preconstruction Burrowing OW 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 around nests. Construction may occur outside of the 250-foot non-disturbance buffer zone.	Newhall Maintenanc e Facility	D	c	VTA/ C	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	Chrono#	MRP Code	ire#	Source Document	Summary	Mitigation Measure	Location	Timeframe: Design (D)	Timeframe: Construction (C)	Responsible Party	Q3 Q3 Q3	Quarter Mitigation Completed
Biological Resources and Wetsinds/ 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-host 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 Maintenanc e Facility	D	С	VTA/ C	THIS MEASURE IS COMPLETE AND CLOSED. See Q2 2024.	Q2 2024
Biological Resources and Wetlands/ Conduct Preconstruction Burrowing Dwi Surveys and Determine Appropriate Action for Newhall Maintenance Facility: Avoidance Measures: Breeding Sesson (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).  COPW, USPMS, and the ScVMA appross the avoidance and minimization plan provided by VTA. CDFW, USFWS, and SCVMA will have 21 calendar days to respond to a request from VTA to review the proposed construction monitoring plan. If these parties of not respond within 21 calendar days, it will be presumed that they concur with the proposal and work can commence.	Newhall Maintenanc e Facility	D	c	VTA/ C	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	<sub>r-</sub> 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 Maintenanc e Facility	D	С	VTA/ C	a a	Q2 2024
Biological Resources and Wetlands/ Conduct Preconstruction Burrowing Owl Surveys and Determine Apopropriate 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	<sub>7-</sub> 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 Maintenanc e Facility	D	С	VTA/ C	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 Meaurres Preceding 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 1August 31)	78	-MMRP- BIO-CNST	<sub>-</sub> 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 (Februay 1 – Jusqust 31) If there is any change in own 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 Maintenanc e Facility	D	С	VTA/ C	THIS MEASURE IS COMPLETE AND CLOSED. See Q2 2024.  CC	Q2 2024

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Env Doc Chapter / Mitigation Topic	Environmental Document Chapter	Mitigation Topic	MM Chrono#	MRP Code	ıre#	Source Document	Summary	Mitigation Measure	Location	Timeframe: Design (D)	Timeframe: Construction (C) and Timeframe:Post-construction (P) and Timeframe:Post-construction (P)	Responsible Party uoist	2024 Q3	Quarter Mitigation Completed
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	r- F-09	Vol-1, ROD	Excavate Owl Burrow to Prevent Reoccupation	Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action- Avoilance 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-Sturbance buffer soon may be removed. The biologist will excavate the burrow to prevent reoccupation after receiving approval from CDFW, USPWS, and SCVHA.	Newhall Maintenanc e Facility	D	c	VTA/ C	THIS MEASURE IS COMPLETE AND CLOSED. See Q2 2024.	Q2 2024
Biological Resources and Wetlands/ Conduct Preconstruction Burrowing OW 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	<sub>r-</sub> F-10	Vol-1, ROD	Establish Buffers Around Occupied Burrows	Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Pacility and Determine Appropriate Action- Avoilance 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  accupied 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-8IO-CNST-F-  11 through F-15) are met in order to prevent owls from abandoning important overwintering sites.	Newhall Maintenanc e Facility	D	с	VTA/ C	THIS MEASURE IS COMPLETE AND CLOSED. See Q2 2024.	Q2 2024
Biological Resources and Wetlands/ Conduct Peconstruction Burrowing Ob 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	r. F-11	Vol-1, ROD	Determine Baseline Owl Behavior	Conduct Preconstruction Burrowing Onf Surveys at Newhall Maintenance Facility and Determine Appropriate Action- Avoidance Measures: Non-Breeding Season. (September 1-January 31).  A qualified biologist monitors the owns for at least 3 days prior to construction to determine baseline foraging behavior (i.e., behavior without construction).	Newhall Maintenanc e Facility	D	с	VTA/ C	THIS MEASURE IS COMPLETE AND CLOSED. See Q2 2024.	Q2 2024
Biological Resources and Wetlandy/ 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	r. F-12	Vol-1, ROD	Survey Owl Behavior During Construction	Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action- Avoilance 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 Maintenanc e Facility	D	c	VTA/ C	THIS MEASURE IS COMPLETE AND CLOSED. See Q2 2024.	Q2 2024
Biological Resources and Wetlandy/ 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	<sub>F-</sub> F-13		Cease Construction if Owl Behavior Changes	Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action- Avoilance 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-bot burfer.	Newhall Maintenanc e Facility	D	c	VTA/ C	THIS MEASURE IS COMPLETE AND CLOSED. See Q2 2024.  CC	Q2 2024

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Biological Resources and Wetlands/ Conduct Preconstruction Jurrowing OW Surveys at Newhall Maintenance Facility and Jetermine Appropriate Action- woidance Measures: Non- reeding Season (September I-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	-MMRI BIO-CN		4 Vol-1		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. VIT may request approval from CDFW, USFWS, and SCVHA for a qualified biologist to excave 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 Maintenanc e Facility	: D	С	v	TA/ C	THIS MEASURE IS COMPLETE AND CLOSED. See Q2 2024.	Q2 2024
iological Resources and /retlands/ onduct Preconstruction urrowing Owl Surveys at Newhall laintenance Facility and etermine Appropriate Action-voidance Measures: Non-reeding Season (Eeptember —January 31) Construction fonitoring	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	-MMRI BIO-CN		5 Vol-1		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 had neveloped (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 files into an active construction zone.	Newhall Maintenanc e Facility	: D	С	v	TA/ C	THIS MEASURE IS COMPLETE AND CLOSED. See Q2 2024.	Q2 2024
ultural Resources/ piplement Programmatic greement and Archaeological esources Treatment Plan	Cultural Resources	Implement Programmatic Agreement and Archaeological Resources Treatment Plan	86	-MMRI CUL-CN A		Vol-1 ROD		Imple ment 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 Office (SHO), the Advisory Council on Historic Preservation, the California Department of Transportation (California) District 4, the Cities of San Jose and Santa Clarar, the Peninsula Corridor Joint Powers Board, and the South Bay Historical Railforad 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); esting after demolition of extant structures but before new ground-distributing construction begins; construction-phase monitoring where appropriate; and standards for data recovery. Areas within the Area of Potential Effects (APE) here potential resources have been demitted, 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	C	V	TA MM	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.	
eology, Soils, and Seismicity/ corporate Design Specifications Minimize Effects from quefaction Hazards	Geology, Soils, and Seismicity	Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards	87	-MMRI GEO- CNST-	P- A- 01	Vol-1 ROD		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 Sacilities Sandards Seligin Criteria for liquefaction, VTA will implement the following methods (MMBP-GEO-CNST-A-D1 through A-O6) during construction to minimize the potential impacts. VTA will determine the exact methods to reduce impacts from liquefaction during final engineering.	Program- wide	D	С	PV	TA/ C	This is a summary measure, and has been applied as seen in the mitigation measures MMRP-GEO-CNST-A-01 through A-06 below.	
eology, Soils, and Seismicity/ ncorporate Design Specifications o Minimize Effects from Iquefaction Hazards	Geology, Soils, and Seismicity	Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards	88	-MMRI GEO- CNST-	P- A- 02	Vol-1 ROD		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 sessinic liquefaction hazard.  (Also see MMRP-GEO-CNST-A-06).	Program- wide	D	С	P	TA/ C	Please refer to the documentation under MMRP-GEO-CNST-A-06.	
eology, Soils, and Seismicity/ corporate Design Specifications Minimize Effects from quefaction Hazards	Geology, Soils, and Seismicity	Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards	89	-MMRI GEO- CNST-	P- A- 03	Vol-1 ROD		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	С	PV	TA/ C	Please refer to the documentation under MMRP-GEO-CNST-A-06.	

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Env Doc Chapter / Mitigation Topic	Environmental Document Chapter	Mitigation Topic	Chrono#	MRP Code		Source Document	Summary	Mitigation Measure	Location	Timeframe: Design (D)	Timeframe: Construction (C)	Responsible Party	Q3 Q3 Q3 Q3	Quarter Mitigation Completed
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	Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards:  *For shallow foundations for other peripheral facilities around the stations and pawement and parking lot, VTA will implement the following if necessary:  o Use additional reinforcement, construction joints, and grade beams.  o Integrates byparde improvements (using geotestile fabric and structural fill), and other methods to accommodate potential ground settlements.  (Also see MMRP-GEO-CNST-A-06).	Program- wide	D	СР	VTA/ C	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	Incorporate Design Specifications to Minimize Effects from Uquefaction Hazards: To mitigate potential liquefaction- related uplift of the BART Extension's underground tunnels and stations situated below the water table in liquefiable sols. VTA will ensure that the construction contractor either applies anchors or designs the structures' concrete foundations and walls thick enough to make the total weight of the structures large enough to completely counteract the liquefaction- related uplift force. (Also see MMRP-GEO-CNST-A-06).	Program- wide	D	СР	VTA/ C	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	Incorporate Design Specifications to Minimize Effects from Uquefaction Hazards: Other liquefaction hazard mitigation measures used in previous BART projects that may be considered for the BART Extension are as follows. In oil-situ treatment/dessification with/other-placement stone columns. In oil-situe treatment/dessification with/other-placement stone columns. In oil-situe treatment of liquefaction prone soils with compacted engineered fill.	Program- wide	D	C P	VTA/ 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 Teigniering Consultant (EGC) has been selected and is preparing the three Design-Bid-Baulid 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.	1
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	Implement Preconstruction and Post-construction Building Condition Surveys for Settlement: VTA will conduct preconstruction building condition surveys of the interiors and exteriors of select structures, both historic and non-historic buildings, within the settlement trough along the tunnel alignment and within the limit of influence around the cut-and- cover exervations to assess the baseline condition of each property that could be affected by project-induced settlement. These surveys will include written and photographic (video and still) records, including written discriptions and photos of any cracks. VTA will also conduct post-construction building condition surveys of the same structures. VTA will compare the results of these surveys with the preconstruction condition surveys on that any construction-related effects of tunneling and cut-and-cover construction on structures can be assessed.  For the cut-and-cover activities, surveys will be performed prior to any construction in the cut-and-cover work area to establish the baseline building condition. For construction of the tunnel via Tunnel Boring Machiner (TBM), surveys will be performed as close to the planned dates of tunneling a spossible so that the results are as current as possible. Therefore, surveys will be performed prior to passage of the TBMs, with some surveys conducted once tunneling has commenced.	Program- wide	D	СР	VTA/ C	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Cara Station, and CP-4 Underground Stations, a General Engineering Consultant (ECI) has been selected and is preparing the three Design-Bid-Baulid 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 Seitmicity/ 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-	P- B- 02	Vol-1, ROD	Prepare Condition Assessment Reports for Historic Buildings	Implement Preconstruction and Post-construction Building Condition Surveys for Settlement-Historic Buildings: For historic structures, the Condition Assessment Report, in accordance with Section 106, will be prepared along with the preconstruction building condition surveys. Results will be used by a structural engineer in coordination with the historic Qualified Professional (QP) to identify structural settlement thresholds for each historic structure prior to construction. If an anticipated maximum settlement due to tunneling or cut and-cover activities would cause more than cosmetic damage, then ground treatment technologies outlined in Section 5.3.1.4, Ground Treatment, will be employed to further reduce settlement to within building, specific structural settlement thresholds. 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 consistation with FTA and SHPD.  For historic structures, surveys prior to either cut-and-cover or tunneling will be performed enough in advance of the construction to allow adequate time for any necessary ground treatment that may be required to reduce settlement to be performed.	Program- wide	D	СР	VTA/ 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 Tenjmering Consultant (EGC) 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	Chrono#	MRP Code	ure#	Source Document	Summary	Mitigation Measure	Location	Timeframe: Design (D)	Timeframe: Construction (C) dd	Responsible Party	Q3	Quarter Mitigation Completed
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, each cut titlities susceptible to settlement, and in representative locations immediately adjacent to streams within the settlement trough along the tunne silignment to monitor ground movements and effects of number boing. The contractor must obtain approari 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	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 (EGC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.  For CP-2 Tunnel and Tractwork:  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-anc 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 utilises. 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 am monitoring devices or crack gauges on or in historic buildings that require alteration of the building. Survey monitoring points will be field surveyed by licensel and 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 relat-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	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 (GE) 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 survey of utilities deemed to be potentially at risk due to surface settlement or ground movement at BART Extension and TOID 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	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 (EGC) 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 03 3024 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 flydrostatic 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 deem to very dense sand at depths is a geotechnical concern due to the vibration and/o noise impact on the surrounding environment.	Program- wide	D	СР	VTA/ C	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 (EGC) has been selected and is preparing the three Design-Bid-Boulid plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork:  This measured ind not apply in G3 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 contract constructs a working platform as described below.  • Over-excavate 18 inches below the native subgrade.  • Place a stabilizing geotestile fabric or a geogrif 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 geotestile fabric on top of the bridging material for a minimum distance of 2 feet.	Program- wide	D	c	VTA/ C	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 (EGC) 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, Sails, 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.  • 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 upilif 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	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 (EGC) has been selected and is preparing the three Design-Bid-Sulid plan, specification, and estimate (PS&E) packages.  For CP-2 Tunnel and Trackwork:  C in Q3 2024, design to minimize effects from expansive soils is underway.	

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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-I		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 half 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 resource such as fossils, plant impressions, or a minist tracts 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 miligrate adverse imposts 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	۵	С	VTA/ C	The four contract packages and current design status is as follows: for CP-1 Systems, CP-3 NewHoll Pard/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 C3 3024 with site preparation, grading, and clearing and disposal of debris and excess/contaminated soils at the West Tunnel Portal. No 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 TOID): TOID 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.	ДОТ		С	VTA/ C	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 TOID): 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 TOIDs.	TOJD		P	VTA/ C	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 TOID): TOIDs 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 TOIDs.	DLOT	D		VTA/ C	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		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-Do2 through D-03). This mitigation measure shall be included as a mandatory performance standard for all agreements with developers of the TOJDs.	DLOT	D		VTA/ C	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. TOID Residential Use: A total of 10 percent of the required parking spaces shall be provided with a listed calamie, box or endourse 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 calinets, boxes, or endourse provided, 50 percent shall have the encessary electric vehicles spacyle squiment 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. Extensionally, and the state of the	DIOT	D		VTA/ C	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 Commercial)	107	-MMRP- GHG-D	- D- 03	Vol-1, ROD	Provide Preferential Parking for Electric Vehicles (TOJD Commercial)	Provide Perferential Parking for Electric Vehicles: TOID Commercial Use: New commercial uses shall provide the electric service apact recessary as well as all conduits and related equipment necessary to serve 2 percent of the parking spaces with charging stations. Of these parking spaces, 26 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 betteries 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 3 percent have active charging, depending on what the technology at the time requires.	DIOT	D		VTA/ C	TOD is not included in CP1 through CP4. Once TOD contracts are underway these measures will be addressed.	

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Hazardous Materials/ Prepare Remedial Action Plans	Hazardous Materials	Prepare Remedial Action Plans	108	-MMRP- HAZ-CNST- A	-	Vol-1, ROD	Prepare Remedial Action Plans	Prepare Remedial Action Plans: Prior to construction, VTA will prepare new and/or amended remedial action plans (RAPs) for the BART Extension, which will be approved by the Regional Water Quality Control Board (RWQCIS).  The RAPs will satisfy the key objectives of the Contaminant Management Plan (CMP) (e.g., characterization of soil and ballast quality relative to the maximum acceptable contaminant levels for reuse) and incorporate measures for managing only, ballast, and groundwater from the CMP (e.g., ampling and analysis, health and safety, socialing, offsite disposal, and treatment) to address all known and potential sources of environmental contamination identified in the October 2015 V17s BART Silicen Valley Planse II Extension Project Intilist Sice Assessment (IA), V17 will growford measures to safety regulatory notification requirements and approval measures (e.g., additional sampling and analysis), if necessary, for soil excretion and/or devetering sissociated with indivise covenants near the Dividon and Sorta Clara Stations and over the tunnel alignment's proper to the contaminant planners, such as solicitudes are not limited to, source removal of contaminanted materials, in-situ treatment, and implementation of engineering controls (e.g., vapor barriers) and/or institutional controls prior to building occupancy.	Project wide	D			The four contract packages and current design status is as follows:  for CP-1 Systems, CP-3-Newbla Yard/Sands Card Sation, and CP-4 Underground Stations, a General Engineering Consultant (SCC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) package 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 yeard (CP-4), was approved by the RWOCE for use on 8/3/2021. VTA.CP-2 Contractor, KSTV, as per the requirements of the Contaminant Management Plan and Remedial Action Plan, have 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 Downtowns An Jose, Dividen, and 28th Street.  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.	
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	Incorporate FTA Oriteria Compliant Construction Noise and Vibration Specifications VTA will incorporate a comprehensive construction noise and vibration specification into all construction bid documents requiring compliance with FTA criteria. VTA will emphasize the existence and importance of noise and vibration control specifications at pre-bid and preconstruction conferences.	Project wide	D	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 Sations, a General Engineering Consultant (GCC) has been selected and is preparing the three Design-Bild Suild plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork:  CC- Section 01 SE 20 Noise and Vibration Control has been included in the project specifications and is provided in all bild documents.  THIS MEASURE IS COMPLETE FOR CP2. See Q2 2024.	CP2 - Q2 2024
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	Locate Equipment as Far as Feasible from Sensitive Sites: The contractor will locate stationary equipment, such as generators and compressors as far as feasible from noise and vibration sensitive sites, and will acoustically treat such equipment. The contractor will also locate grout batch plants, grout slikes, misers, pumps, deep appring equipment, and similar noise and vibration generating equipment as far as feasible from noise sensitive sites, and acoustically treat the same if necessary.	Project wide		С		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 deneral Engineering Constitunt (ECF) has been selected and is preparing the three Design-Bid-Bould 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 C clearing and disposal of debris and excess/contaminated soils at the West Tunnel Portal. All stationary equipment has been located as far as fessible 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.	
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	Construct Temporary Noise Barriers: The contractor will install temporary noise barriers or noise control blankets in mea- between noisy activities and noise-sensitive receptors, where practical and effective. Temporary noise barriers can reduce construction noise by \$5 to \$5.08, depending on the height of the barrier and the placement of the barrier. To be most effective, the contractor will place the barrier as close as possible to the noise source or the sensitive receptor. Temporary barriers tend to be particularly effective because they can be easily moved as work progresses to optimize performance. If temporary noise arriers and site barvier and to compliance with the noise limit, the contractor may consider retrofitting existing windows and doors with new acoustically rated units for the residential structures.	Project wide; 28TH Street/Little Portugal (Alum Rock)	D	c		The four contract packages and current design status is as follows:  For CP-15 yethers, CP-3-Newbla Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Bidl yalon, specification, and estimate (PS&E) packages.  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.  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.	

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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-CNST- D	-	Vol-1, ROD	Operate Equipment to Minimize Annoying Noise and Vibration	Operate Equipment to Minimize Annoying Noise and Vibration: Contractors will implement the following measures:  • Use electric instead of dised-powered equipment, hydraulic tools instead of pneumatic impact tools, and electric instead of air- or gasoline-driven saws, where feasible.  • Use an augering drift-rig for setting piles in lieu of impact pile drivers, where feasible. • Operate equipment to as to minimize banging, clattering, buzzing, and other annoying types of noises, especially near residential areas during nighttime hours. • I'um off inding equipment, whenever possible. • I une half truck bods with rubber or sand to reduce noise, if needed and requested by VTA. Line or cover hoppers, conveyor transfer points, storage bins, and chutes with sound-deadening material. • During nighttime and weekends, use strobe warning lights and/or back-up observers during any back-up operations, where permitted by the local jurisdiction.	Program- wide	c	VTA/ C	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clars Station, and CP-4 Underground Stations, a demaral Engineering Consultant (EGC, bus been selected and is preparing the three Design-Bild Sulld plan, specification, and estimate (PSE) packages. For CP-2 Turnel 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 implemental chistead of diesel-powered equipment, hydraulic tods instead of pneumatic impact tods, and electric instead of air- or gasoline-driven sus, where feasible.  • Augering drifting for setting piles is being used in lieu of impact pile drivers, where feasible.  • Augering drifting for setting piles is being used in lieu of impact pile drivers, where feasible.  • Liguipment is used to minimize banging, clattering, buzzing, and other annoying types of noises, especially near residential areas during nighttime hours.  • Iding equipment is turned off, whenever possible.  • Halaul 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.	
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-CNST- E		Vol-1, ROD	Route Construction Trucks along Truck Routes Least Disturbing to Residents	Route Construction Trucks along Truck Routes Least Disturbing to Residents: The contractor will route construction- related truck traffic along truck routes and roadways that would cause the least disturbance to residents. The contractor related truck traffic along truck routes and roadways that would cause the least disturbance to residents. The contractor will lay out loading and unloading zones to minimize truck idiling near sensitive receptors and to minimize truck reversing so back-up alarms are minimized near residences.	Program- wide	С	VTA/ C	The four contract packages and current design status is as follows:  For CP-1 Syrtems, CP-3 Newshid YarQSanst Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (EEC) has been selected and is preparing the three Design-Bid-Biuld plan, specification, and estimate (PSRE) 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.	
Noise and Vibration/ Secure Steel and Concrete Plates over Excavated Holes and Trenche	Noise and Vibration	Secure Steel and Concrete Plates over Excavated Holes and Trenches	114	-MMRP- NV-CNST- F		Vol-1, ROD	Secure Steel and Concrete Plates over Excavated Holes and Trenches	Secure Steel and Concrete Plates over Excavated Holes and Trenches: The contractor will secure steel and/or concrete plates over excavated holes and trenches to reduce rattling when vehicles pass over. It complaints are received, the contractor will set blicker plates, stiffer beams beneath the plates, and/or rubber gaskets between the beams and plates to further reduce rattling noise and vibration.	Program- wide	С	VTA/ 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 (EGC Labs been selected and is preparing the three Design-8lid-8uild plan, specification, and estimate (PS&E) packages.  For CP-2 Tunnel and Trackwork:    Carly 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.	
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-CNST- G	-	Vol-1, ROD	Use Best Available Practices to Reduce Noise and Vibration	Use Best Available Practices to Reduce Noise and Vibration: The contractor will use the best available practices to reduce the potential for exceedances of noise and vibration criteria due to construction activities. This may require the use of equipment with special cahasat silencers, construction of temporary endosures or noise barriers around activities, and tracks for the tracked vehicles to be in good condition.	Program- wide	c	VTA/ C	The four contract packages and current design atatus is as follows: For CP-1 Systems, CP-3 Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (EGCE) has been selected and is preparing the three Design-Bit-Boulid 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 Note and Vibration Montroing Plan (CNVMP) list the construction activities, noise levels, and measures taken to keep noise and vibration levels within the applicable thresholds.	

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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	Adhere to Local Jurisdiction Construction Time Periods, to the Extent Feasible: The contractor will adhere to local  Jurisdiction construction time periods, to the extent feasible, recognizing that nighttime and weekend construction may be  mecessary and/or perferred by VTA and local jurisdictions to reduce other related environmental effects such as traffic.  VTA will coordinate with the cities of San Jose and Santa Clara on construction operations during nighttime and weekends,  and Application of the Company	Program- wide		C	VTA/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 deneral Teighnering Consultant (SCI) has been selected and is preparing the three Design-Bid-Bould plan, specification, and estimate (PS&E) packages.  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 20/2 KDVMP Update can be found in the project folder 109-135 NV-Noise & Vibration. The Construction Transportation Management Plan (CTMP) for CPE Early Work-West Tunnel Portal has been approved and includes the approved work hours.  Early works construction continued in G3 2024 with site preparation, grading, and clearing and disposal of debirs and excess/contaminated sols 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.	
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)	Perform Preconstruction Ambient Noise Measurements at All CSAs: The contractor will perform preconstruction ambient noise measurements at all construction staging areas, which include the tunnel portals, stations, and mid-tunnel ventilation sites. These measurements will document the noise environment just prior to start of construction at representative locations along the alignment. These measurements will be performed continuously over a minimum of 10 days (240 hours).	Program- wide	D		VTA/ 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 Teigineering Consultant (EGC) has been selected and is preparing the three Design-Bid-Bould plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: C Preconstruction ambient noise monitoring was performed on December 1, 2022, and continued through December 10, 2022 at the West Portal.  Further preconstruction noise monitoring will be performed in future quarters at the underground stations and East Tunnel portal.	
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	Implement a Construction Noise Control and Monitoring Plan: The contractor will submit a Noise Control and Monitoring Plan to VTA for approval. The plan will be prepared by a qualified acoustical engineer whose qualifications and proposed moise control and monitoring activities will be subject to approval of VTA prior to construction activities. The contractor will update the Noise Control and Monitoring Plan every 3 months and will include all the pertinent information about construction equipment and site layout, the projected noise levels, and the noise militigation measures that may be required to comply with the noise limits for each sensitive receptor. The Noise Control and Monitoring Plan will also outline the monitoring equipment and procedures the contractor will use to perform noise measurements and to identify noise-sensitive receptors in the immediate vicinity of construction operations, including details regarding the noise measurement locations, frequency, and duration of measurements. The contractor will use to perform noise measurements and monitoring Plan are immitted in the documentation to VTA weekly, in the event that levels exceed allowable noise limits, VTA will ensure that contracturally required corrective measures consistent with the Noise Control and Monitoring Plan are implemented.	Program- wide	D	С	VTA/ 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 Tenjinering Consultant (EGC) has been selected and is preparing the three Design-Bid-Saulid plan, specification, and estimate (PS&E) packages. 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. Bully construction noise monitoring was initiated on April 22, 2024 and is provided to VTA each week.	
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	Require Minimum Qualifications for the Acoustical Engineer: The minimum qualifications for the Acoustical Engineer will be a Bachelor of Science or Engineering degree, from a qualified program in engineering or physics offered by an accredited university or college, and 5 years in noise control engineering and construction noise analysis.	Program- wide	D	С	VTA/ C		CP2 - Q2 2024

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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	Prohibit Operation of Noise-Generating Equipment Prior to Acceptance of Noise Control and Monitoring Plan: The contractor will not operate noise-generating equipment at the construction site prior to acceptance of the Noise Control and Monitoring Plan.	Program- wide		c		The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Hewhil Yard/Shart Loria Station, and CP-4 Underground Stations, a General Engineering, Consultant (GEC) has been selected and is preparing the three Design-Bird-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	Vol-1, ROD	Install Stationary Long Term Noise Monitors at Construction Staging Areas (CSA)	install Long-Term Noise Monitors at CSAs during all Construction Phases. The contractor will install stationary noise monitors at all construction staging areas, which include the tunnel portals, stations, and mid-tunnel verifiation sites, during all the construction phases. Noise ampling will be performed continuously at representative monitoring locations nearest the most sensitive receptor at each location. A minimum of two stationary monitors will be required at the Downtown San because the construction of the stationary monitors. The monitoring locations may be moved as the construction of the contractors of the construction of the contractors. The monitoring locations may be reused as the construction of the contractor of the contractors of the contractors and the contractors. At the Alum Book/28th Street Station and the West Portal staging area, stationary noise monitors will also be initially installed and may be removed if the noise levels are in compliance with the noise limits when the full production construction activities are closest to the sensitive receptors. All data gathered by the contractor will be continuously available to VTA and submitted weekly to VTA for approval.	Program- wide	С	c		The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clairs Status, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-68 double plans, 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 ci3 3004, 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	Vol-1, ROD	Conduct Weekly Noise Sampling with Hand- Held Monitors	Install Long-Term Noise Monitors at CSAs during all Construction Phases: In addition to these stationary noise monitors, the contractor will conduct 30-minute noise sampling with hand-held monitors weekly at the station sites and at other construction sites, including the ventilation shafts and ago breaker stations, or ensure compliance with the noise criteria.  If required, additional noise monitoring site(s) may be added by VTA to address any specific situation or concern. The contractor will submit noise data to VTA for approval on a weekly basis, and will include details on location and type of construction activity and details, hongraphs, and sekrethes of noise monitoring locations. A qualified acoustical engineer will determine whether work was within thresholds or not, and indicate any steps taken during monitoring to lower noise levels to within limits.	Program- wide	E	c	VT	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newshall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (ECG) has been selected and its preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork:  16. 103 2024,3 d-3-minut 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	Ensure Equipment is Pre-certified to Meet Noise Limits: For major equipment to be used at the surface of the construction site for a total duration greater than 5 days, the contractor will ensure that the equipment is pre-certified by the acoustical regimene during field ensurements at each site or guaranteed by the equipment work to meet the noise limits developed for construction equipment as shown in Table 5-8. VTA will re-examine and develop the final limits to be applied during the engineering phase, and the contractor will verify these limits during intial and active performance of the work when the equipment arrives on site. The contractor will retest construction equipment at 6-month intervals while in use onsite. Any equipment used during construction may be subject to confirmatory noise level testing while performing the work at the request of VTA.	Program- wide	0	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 (ECC) has been selected and is preparing the three Design-Bid-Bid John, 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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Noise and Vibration/ Implement a Complaint Resolution Procedure	Noise and Vibration	Implement a Complaint Resolution Procedure	124	-MMRP- NV-CNST- O		Vol-1, ROD	Implement a Noise and Vibration Complaint Resolution Procedure	Implement a Complaint Resolution Procedure: The contractor will implement a complaint resolution procedure to rapidly address any noise and vibration problems that may develop during construction. After a complaint is received, the contractor will assign the complaint a case number and will contact the person making the complaint to receive further clarification on the concern. The contractor will then discuss the issue with the construction team to determine the appropriate action to resolve the issue. The contractor will then again contact the person making the complaint to describe how the issue has been resolved.	Program- wide	D	c	VTA/ 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 (PS&E) package for CP-2 Tunnel and Trackwork: The contractor developed a complaint resolution procedure in Q2 2024 to address on size 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 flied the complaint to determine next steps and remediate any issues. Therefore, THIS MEASURE IS COMPLETE for CP2.	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	Implement a Construction Vibration Control and Monitoring Plan: The contractor will be required to submit a Construction Vibration Control and Monitoring Plan to VTA for approval. The plan will be prepared by a qualified Vibration specialist whose qualifications and prosposed vibration control and monitoring activities will be subject to approval of VTA prior to construction activities. The Construction Vibration Control and Monitoring Plan will be updated every 3 months and include all the periment information about construction equipment and set leapout, the projected vibration levery 3 months and include all the periment information about construction equipment and set leapout, the projected vibration levery 3 months and the vibration control measures that may be required to comply with the vibration limits as outlined in this measure for each building type.  The Construction Vibration Control and Monitoring Plan will also outline the monitoring equipment and procedures the contractor will use to perform vibration measurements? For vibration-sensitive receptors in the vicinity of construction operations, including details regarding the vibration measurement locations, regenery, and duration of measurements as as the contraction. The plan will outline the protocol for monitoring existing cracks; in buildings over time, to determine any construction-related impacts. At a minimum, crack gauges will be installed on existing cracks prior to construction, and monitoring of the gauges will be performed continuously over the course of construction to assess whether new construction-related damage has occurred. The contractor must obtain approval from VTA and the QP to install any crack gauges on or in historic buildings that require alteration of the building.	Program- wide	D	c	VTA/ C	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Sarta Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (EGC) has been selected and is preparing the three Design-Bid-Baild 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 1.07.8. is not 312 00 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, 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.	
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	implement a Construction Vibration Control and Monitoring Plan: The results of vibration monitoring will be documented and submitted to VTA weekly, in the event that levels exceed allowable vibration limits, the work will be halted immediately to ensure that no structural damage occurs, and additional required corrective measures consistent with the Construction Vibration Control and Monitoring Plan will be implemented.  The contractor will initially conduct vibration monitoring daily at the nearest affected buildings during any construction activities that could induce vibration impacts, typically within 100 feet of any building, Wibration will also be monitored where vibration is expected to approach the applicable limit based on the building type and condition, as determined by VTA in coordination with the structural engineer for non-historic buildings, and VTA and the historic QP for historic buildings, building for stilling that are sensitive to Vibration will be coordinated with the utility companies and performed for the nearest affected vibration-sensitive utilities during any construction activities that could induce vibration impacts.	Program- wide	D	c	VTA/ C	Please refer to the documentation under MMRP-NV-CNST-P-01.	
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	Implement a Construction Wibation Control and Monitoring Plans.  The contractor will perform monitoring continuously at the closest receptor during all demolition and construction activities to ensure velocation levels will not exceed the FPX construction vibration dismage criteria for applicable building type, as follows: 0.12 peak particle velocity (PPV) (inches/second) for buildings that a extremely susceptible to vibration damage, 0.2 PPV (inches/second) for non-engineered times and masonry buildings, 0.3 PPV (inches/second) for engineered concrete and masonry (no plaster) buildings and 0.5 PPV (inches/second) for reinforced-concrete, steel or timber (no plaster) buildings.  For historic buildings, the vibration threshold will likely be between 0.12 to 0.2 PPV (inches/second) depending on the buildings' condition. The results of the preconstruction surveys and building Conditions Assessment Report as outlined in Militaction Messure NV-CRST-R will be utilized to confirm the structure types and determine which vibration thresholds apply in comulation with a qualified structural engineer and the historic QP.  For utilities, vibration thresholds will follow industry standards in coordination with utility companies, and typically adhere to a 0.5 PPV (inches/second) threshold.	Program- wide	D	c	VTA/ C	Please refer to the documentation under MMRP-NV-CNST-P-01.	

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Authority					Mitigation Monitoring & Reporting Program							_		
Env Doc Chapter / Mitigation Topic	Environmental Document Chapter	Mitigation Topic	Chrono#	MRP Code	ure#	Source Document	Summary	Mitigation Measure	Location	Timeframe: Design (D)	Timeframe: Construction (C)	Responsible Party	Q3 Q3 Q3	Quarter Mitigation Completed
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		Vol-1, ROD	Measure Building Vibration in Vertical Direction and Utilities in Accordance with Meter Instructions	Implement a Construction Wibration Control and Monitoring Plan. The contractor will measure vibration in buildings in the vertical direction on the ground surface or building floor and for utilities in accordance with meter instructions and industry best practices. Ubration levels will be measured continuously during daily construction operations to ensure that peak vibration-generating work is captured. Daily monitoring will be performed during a continuous work shift (typically 8 hours) that includes the closest and most vibration-including work. The contractor will compare vibration in buildings against both structural damage and nuisance thresholds in terms of velocity levels in did or PPV. Wibration for utilities will be compared against structural damage thresholds in terms of PPV. If the measured vibration data are in compliance with the vibration limits after work has completed start-up and entered full-production mode (typically within 2 weeks to 30 days), vibration monitoring may be performed once a week instead of continuously each day if approved by VTA.  For non-historic structures, if construction wibration 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	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	- P- г- 05	Vol-1, ROD	Motify 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 immediately, in real and the historic plane of 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 inadverent, construction-related damage to historic buildings, repairs will be conducted in accordance with the Secretary of the Intentior'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	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 (EGC) 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 outliem enoitoning equipment, procedures, measurement locations, frequencies, and durations, and will be updated quarterly, once construction begins, in accordance with Section 1.07.5 is in 01 812 0 Noise and Vibration Control. Results will be documented as submitted to VTA as required in 01 81 20 Noise and Vibration Control. The contractor has installed continuous wibration 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 man historic buildings, the historic Qv 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	- I	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		С	VTA/ C	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Sarta Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (EGC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Turnel 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 wibration 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		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 building in the results to YIA 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	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 (IGC) 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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Authority			<u> </u>	Mitigation Monitoring & Reporting Program									-		
Env Doc Chapter / Mitigation Topic	Environmental Document Chapter	Mitigation Topic	Chrono#	MRP Code	e isure#	Source Document	Summary	Mitigation Measure	Location	Timeframe: Design (D)	Timeframe: Construction (C)	Responsible Party	Compliance Status		Quarter Mitigation Completed
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-CNS		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 105 will be perpended 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 stabilish 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 CPV.  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 with activities. The post-construction survey results will be compared with preconstruction conditions unveys so that any construction vibration with section of the surveys will be conducted in accordance with the Secretary of the interior's Standards or the Treatment of Historic Properties and consistent with 36 CFR 800.13(b). VTA and the historic Of will implement these repairs in consultation with FTA and SHPO.	Program- wide	D	C P	VTA/ C	IC IC	The Four contract packages and current design status is as follows: for CP-1 Systems (-2,7-3-Newhall Yard)Sarta Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GCC) has been selected and is preparing the three Design-Bit-Build plan, specification, and estimate (PS&E) packages.  For CP-2 Tunnel and Trackwork: VTA received Condition Assessment Reports (CARs) 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 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	-MMRF NV-CNS 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 induce, 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.	k Tunnel Alignment		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 (Constant (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	-MMRF NV-A	P	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 nearly developed land uses. Treatments that will be implemented, if necessary, include but are not limited to:  - Sound attenuator and accounts all aborepite 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)		С	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-8id-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	Р	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 mass that are typically used for an IST 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 4.12.2 if through 4.12.25 glummarized in DRBM-PVA). The project's fina design will determine the specific mitigation strategy, which could include alternative strategies that similarly achieve the FTA groundborne noise criteria.	ıl Tunnel Alignment		С	VTA/ C	IC	The relevant contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Sant Gan Satton, and CP-4 Inderground Statons, 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	-MMRF UTIL-A		Vol-1, ROD	Prepare a San Jose Water Supply Infrastructure Capacity Assessment	Pregare a San Jose Water Supply Infrastructure Capacity Assessment and Participate in the Improvements: VTA will coordinate with San Jose Water Company (SIVC) and prepare a Cooperative Agreement to establish the BART Extension Alternative's participation in improvements to diffite water supply infrastructure. The SIVIC 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 SIVIC 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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						MMRP Code							2024
Env Doc Chapter / Mitigation Topic	Environmental Document Chapter	Mitigation Topic	Chrono#	Measure	#		Summary	Mitigation Measure	Location	Timeframe: Design (D)	Timeframe: Construction (C)	Responsible Party	Q3  Quarter Miligation Completed
Utilities/ Prepare a Santa Clara Water Supply Infrastructure Capacity Assessment and Participate in the Improvements	Utilities	Prepare a Santa Clara Water Supply Infrastructure Capacity Assessment	137	-MMRP- UTIL-B	- Vol- ROE	1, Water Infrast	are a Santa Clara er Supply istructure icity Assessment	Prepare a Santa Clara Water Supply Infrastructure Capacity Assessment and Participate in the Improvements: VTA will coordinate with the City of Santa Clara Water and Sewer Utility (SCWSU) and prepare a Cooperative Agreement to establish the BART Extension Alternative's participation in improvements to offsite water supply infrastructure. The SCWSU may conduct a detailed engineering study and flow analysis to determine the extent of these impacts and participation.  The contractor will implement capacity-relief upgrades during the utility relocation phase of construction in accordance with Chapter 17.15.210 of the Santa Clara City Code. The contractor will ensure that all construction activities follow the provisions outlined in this environmental document, including implementation of the construction education and outreach plan, to reduce potential impacts.	Santa Clara Station	D	Р	VTA	TOD is not included in CP1 through CP4. Once TOD contracts are underway these measures will be addressed.
Utilities/ Prepare a San Jose Sewer Capacity Assessment and Participate in the Improvements	Utilities	Prepare a San Jose Sewer Capacity Assessment	138	-MMRP- UTIL-C	- Vo	Sewer	are a San Jose er Capacity ssment	Prepare a San Jose Sewer Capacity Assessment and Participate in the Improvements: VTA will coordinate with the San Jose Department of Public Works (SPPW) to prepare a Cooperative Agreement to establish the BART Extension Alternative's participation in improvements to offsite santary sewer capacity deficiencies. SIPV may conduct a detailed engineering study and hydraulic analysis to determine the extent of these impacts.  VTA will mitigate improacts on downstream sewer systems in San Jose brough payment of the Sanitary Sewer Connection Fee, as required, which is used to rehabilitate and enhance sewer capacity through San Jose's Sanitary Sewer Capital improvement Program. If payment to the Sanitary Sewer Connection Fee does not adequately mitigate potential offsite sewer capacity inspact related to the ARTE Extension, VTA will be responsible for direct uggrades to the sewer system. If sewer system overcapacity is a result of projected cumulative development, San Jose and VTA will develop a Cooperative Agreement to determine the BART Extension Alternative's participation in upgrades to the current system. The contractor will implement capacity-relief upgrades during the BART Extension's construction phase in accordance with policible's naise standards regarding sewer infrastructure improvements, Generally, the contractor will lorder sewer infrastructure improvements within the existing public right-of-way, with minimal potential to impact sensitive environmental resources. The contractor will ensure that construction activities follow the provisions outlined in this environmental document, including implementation of the construction education and outreach plan, to reduce potential impacts.	28th Street/Littl Portugal Station (Alum Rock Downtown San Jose Station; Diridon Station		Р	· VTA	TOD is not included in CP1 through CP4. Once TOD contracts are underway these measures will be addressed.
Utilities/ Prepare a Santa Clara Sewer Capacity Assessment and Participate in the Improvements	Utilities	Prepare a Santa Clara Sewer Capacity Assessment	139	-MMRP- UTIL-D	- Vo	Sewer	are a Santa Clara er Capacity ssment	Prepare a Santa Clara Sewer Capacity Assessment and Participate in the Improvements: VTA will coordinate with SCVSt. to prepare a Cooperative Agreement to establish the BART Extension Alternative's participation in improvements to offsite sanitary sewer capacity deficiencies. SCVSU may conduct a detailed engineering study and hydraulic analysis to determine the extent of these impacts.  VTA will mitigate impacts on downstream sewer systems in Santa Clara through payment of the Sanitary Sewer Connection Charge, as required, which is used to rehabilitate and enhance sewer capacity through Santa Clara's Capital improvement Program. If payment to the Sanitary Sewer Connection Charge does not adequately mitigate potential offsite sewer capacity through Santa Clara's Capital improvement Program. If payment to the Sanitary Sewer Connection Charge does not adequately mitigate potential offsite sewer capacity structure of the Sanitary Sewer Connection Charge does not adequately mitigate potential offsite sewer capacity structure of the Sanitary Sewer System overcapacity is a result of cumulative development, Santa Clara and VTA will develop a Cooperative Agreement to determine the BART Extension's Construction phase in accordance with Chapter 17.15.2.10-280 of the Sanita Clara City Code. Generally, the contractor will lost sewer infrastructure improvements with the easting public right-of-way, with minimal potential to impact sensitive environmental resources. The contractor will ensure that construction activities follow the provisions outlined in this environmental adocument, including implementation of the construction education and outreach plan, to reduce potential impacts.		D	P	VTA	TOD is not included in CP1 through CP4. Once TOD contracts are underway these measures will be addressed.
Visual Quality and Aesthetics/ Replace Trees	Visual Quality and Aesthetics	Replace Trees	140	-MMRP- AES-CNST- A	- Vo		Replace Trees	Replace Trees: The contractor will inventory trees that will be removed due to construction activities and will note each tree on construction plans before construction begins. VTA will compensate for any trees removed according to the following ratios.  VTA will replace all urban trees that are to be removed or lost as a result of the BART Extension to the extent feasible. VTA will complace trees with a diameter of less than 12 inches at a 2.1 ratio, and trees with a diameter of less than 12 inches at a 2.1 ratio, and trees with a diameter of less than 12 inches at a 2.1 ratio, and trees with a diameter of less than 12 inches at a 2.1 ratio, and trees with a diameter of less than 12 inches in diameter, and 2.1 for all trees with a diameter of 12 inches or more. VTA will irrigate and maintain these trees for a period of no less than 3 years. If VTA cannot replace trees at the stated ratios along the alignment, VTA will pay in-lied tess.  For any landscaping adjacent to the creeks and on VTA right of-way (ROW), VTA will adhere to the SCWWD's Guidelines and Standards for Land Use Near Streams regarding the use of native species near the creeks.		D	С	VTA/ 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 (ECE) has been selected and is preparing the three Design-Rid-Bull plan, specification, and estimate (PSRC) packages.  For CP-2 Turnel and Trackwork: In Q3 2024 six (6) Messcar Fan Palms (Washingtonia Robusto) and one (1) Tree of Heaven (Allonthus Altissimal) were removed from the Newhall Maintenance Yard. The inventory for the removed trees, including the size, if they are invensive/native, and the replacement ratio, can be found in the project sharepoint under the applicable ECR measure folder.

Valley Transportation————————————————————————————————————					_		II - Environmenta Monitoring & Re	al Commitments Record porting Program						
Env Doc Chapter / Mitigation Topic	Environmental Document Chapter	Mitigation Topic	MN Chrono#	MRP Code  Measur	re#	Source Document	Summary	Mitigation Measure	Location	Н	Timeframe: Construction (C) and Timeframe:Post-construction (P) and Timeframe:Post-construction (P)		Q2024 Q3 Q3	Quarter Mitigation Completed
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)	Minimize Light and Glare (for TOJD): For the TOJDs, the contractor will install low-profile, low-intensity outdoor lighting directed downward to minimize light and glare where feasible. The contractor will also install shielded futures for street and pedestrian lighting to minimize glare.	DLOT	D	С		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	besign and Implement Stormwater Control Measures: The BART Extension will be designed in accordance with the Phase II MS4 Permit, Section F.S.g. for post-construction stormwater management. Post-construction stormwater controls shall be implemented to reduce total runoff rates and associated pollutant discharges. VTA managering facilities will follow the VTA's Stormwater and Landscaping Design Criteria Manual. After designs are finalized, Stormwater Management Report, including detailed hydrologic and hydraul calculations, analysis, and conclusions, shall be prepared to document the final design for stormwater management and the storm drain system and for obtaining the requisite approvals, and will outline all required Operation and Maintenance needs recommended by the designer for the post-construction stormwater management facilities.	Program- wide	D	СР	VTA/ 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 (GC) has been selected and is preparing the three Design-Bid-Boulid plan, specification, and estimate (PS&C) packages. 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 QZ 2024. The SWPPP for the West Tunnel Portal Was amended in Q3 2024 to reflect changes in work phasing and site winterization.	