

EXHIBIT 2: MITIGATION MONITORING AND REPORTING PROGRAM FOR THE TRANSIT EFFECTIVENESS PROJECT

MONITORING AND REPORTING PROGRAM

Adopted Mitigation Measures	Responsibility for Implementation	Mitigation Schedule	Mitigation Action	Monitoring/Reporting Responsibility	Monitoring Schedule
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MITIGATION MEASURES AGREED TO BY SFMTA

Cultural and Paleontological Resources

Mitigation Measure M-CP-2a: Accidental Discovery of Archeological Resources

The following mitigation measure is required to avoid any potential adverse effect from the proposed project on accidentally discovered buried or submerged historical resources as defined in CEQA Guidelines Section 15064.5(a)(c). The project sponsor shall distribute the Planning Department archaeological and paleontological resource “ALERT” sheet to the project prime contractor; to any project subcontractor (including demolition, excavation, grading, foundation, pile driving, etc. firms); and to any utilities firm involved in soils disturbing activities within the project site. Prior to any soils disturbing activities being undertaken, each contractor is responsible for ensuring that the “ALERT” sheet is circulated to all field personnel, including machine operators, field crew, pile drivers, supervisory personnel, etc. The project sponsor shall provide the Environmental Review Officer (ERO) with a signed affidavit from the responsible parties (prime contractor, subcontractor(s), and utilities firm) to the ERO confirming that all field personnel have received copies of the Alert Sheet.

SFMTA and project contractors

Prior to soils disturbance activities

SFMTA to distribute Planning Department “ALERT” sheet and provide signed affidavit from project contractor, subcontractor(s) and utilities firm(s) stating that all field personnel have received copies of the “ALERT” sheet.

ERO to receive signed affidavit.

Prior to any soil disturbing activities.

Following distribution of “ALERT” sheet but prior to any soils disturbing activities.

EXHIBIT 2: MITIGATION MONITORING AND REPORTING PROGRAM (continued)

MONITORING AND REPORTING PROGRAM

Adopted Mitigation Measures	Responsibility for Implementation	Mitigation Schedule	Mitigation Action	Monitoring/Reporting Responsibility	Monitoring Schedule
Should any indication of an archaeological resource be encountered during any soils disturbing activity of the project, the project Head Foreman and/or project sponsor shall immediately notify the ERO and shall immediately suspend any soils disturbing activities in the vicinity of the discovery until the ERO has determined what additional measures should be undertaken.	SFMTA and project contractor's Head Foreman	During soils disturbance activities	SFMTA and project contractor's Head Foreman to inform ERO and suspend soils disturbing activities.	ERO to determine if additional measures are necessary	During soils disturbance activities
If the ERO determines that an archaeological resource may be present within the project site, the project sponsor shall retain the services of an archaeological consultant from the pool of qualified archaeological consultants maintained by the Planning Department archaeologist. The archaeological consultant shall advise the ERO as to whether the discovery is an archaeological resource, retains sufficient integrity, and is of potential scientific/historical/cultural significance. If an archaeological resource is present, the archaeological consultant shall identify and evaluate the archaeological resource. The archaeological consultant shall make a recommendation as to what action, if any, is warranted. Based on this information, the ERO may require, if warranted, specific additional measures to be implemented by the project sponsor. Measures might include: preservation in situ of the archaeological resource, an archaeological monitoring program, or an archaeological testing program. If an archaeological monitoring program or archaeological testing program is required, it shall be consistent with the Environmental Planning division guidelines for such programs. The ERO may also require that the project sponsor immediately implement a site security program if the archaeological resource is at risk from vandalism, looting, or other damaging actions.	SFMTA and project archaeological consultant	When determined necessary by the ERO	If required, SFMTA to retain an archaeological consultant from the pool of qualified archaeological consultants. Project archaeological consultant to advise ERO regarding the status of the archeological resource. ERO to determine whether the need for an archaeological monitoring program, an archaeological testing program, or site security program is needed.	ERO to determine if additional measures are necessary to implement	

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EXHIBIT 2: MITIGATION MONITORING AND REPORTING PROGRAM (continued)

MONITORING AND REPORTING PROGRAM					
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<p>The project archaeological consultant shall submit a Final Archeological Resources Report (FARR) to the ERO that evaluates the historical significance of any discovered archaeological resource and describing the archaeological and historical research methods employed in the archaeological monitoring/data recovery program(s) undertaken. Information that may put at risk any archaeological resource shall be provided in a separate removable insert within the final report.</p> <p>Copies of the Draft FARR shall be sent to the ERO for review and approval. Once approved by the ERO, copies of the FARR shall be distributed as follows: California Archaeological Site Survey Northwest Information Center (NWIC) shall receive one (1) copy and the ERO shall receive a copy of the transmittal of the FARR to the NWIC. The Environmental Planning division of the Planning Department shall receive one bound copy, one unbound copy, and one unlocked searchable Portable Document Format (PDF) copy on CD of the FARR along with copies of any formal site recordation forms (CA DPR 523 series) and/or documentation for nomination to the NRHP/CRHR. In instances of high public interest or interpretive value, the ERO may require a different final report content, format, and distribution than that presented above.</p>	<p>SFMTA and project archaeological consultant</p>	<p>When determined necessary by the ERO</p>	<p>SFMTA and project archaeological consultant to prepare draft and final FARR</p>	<p>ERO to review and approve final FARR</p>	

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EXHIBIT 2: MITIGATION MONITORING AND REPORTING PROGRAM (continued)

MONITORING AND REPORTING PROGRAM

Adopted Mitigation Measures	Responsibility for Implementation	Mitigation Schedule	Mitigation Action	Monitoring/Reporting Responsibility	Monitoring Schedule
<p>Mitigation Measure M-CP-2b: Archaeological Monitoring</p> <p>Based on the reasonable potential that archaeological resources may be present within the project site, the following measures shall be undertaken to avoid any potentially significant adverse effect from the proposed project on buried or submerged historical resources. Once engineering design details for the identified projects (OWE.1, OWE.1 Variant,SCI.2, TTRP.9 and TTRP.22_2) and other projects in archaeologically sensitive areas, as identified by the Environmental Review Officer, are known, the project sponsor shall consult with the Planning Department archeologist regarding the specific aspects of these proposals that would require monitoring. If required by the Planning Department archeologist, the project sponsor shall retain the services of an archaeological consultant from the pool of qualified archaeological consultants maintained by the Planning Department archeologist. The archaeological consultant shall undertake an archaeological monitoring program. All plans and reports prepared by the consultant as specified herein shall be submitted first and directly to the Environmental Review Officer (ERO) for review and comment, and shall be considered draft reports subject to revision until final approval by the ERO. Archaeological monitoring and/or data recovery programs required by this measure could suspend construction of the project for up to a maximum of four weeks. At the direction of the ERO, the suspension of <i>construction</i> can be extended beyond four weeks only if such a suspension is the only feasible means to reduce to a less than significant level potential effects on a significant archaeological resource as defined in <i>CEQA Guidelines</i> Sect. 15064.5 (a)(c).</p>	SFMTA and Planning Department	Prior to soils disturbance	<p>SFMTA to consult with Planning Department archaeologist.</p> <p>If required, SFMTA to choose archaeological consultant from the pool of qualified archaeological consultants</p>	Project archeological consultant, Planning Department	<p>Consultation with Planning Department Archeologist to occur once engineering design details for the identified projects are known; timeline for subsequent actions determined following meeting.</p>

EXHIBIT 2: MITIGATION MONITORING AND REPORTING PROGRAM (continued)

MONITORING AND REPORTING PROGRAM

Adopted Mitigation Measures	Responsibility for Implementation	Mitigation Schedule	Mitigation Action	Monitoring/Reporting Responsibility	Monitoring Schedule
<p><i>Archaeological monitoring program (AMP).</i> The archaeological monitoring program shall minimally include the following provisions:</p> <ul style="list-style-type: none"> ▪ The archaeological consultant, project sponsor, and ERO shall meet and consult on the scope of the AMP reasonably prior to any project-related soils disturbing activities commencing. The ERO, in consultation with the project archaeologist, shall determine what project activities shall be archaeologically monitored. In most cases, any soils disturbing activities, such as demolition, foundation removal, excavation, grading, utilities installation, foundation work, driving of piles (foundation, shoring, etc.), site remediation, etc., shall require archaeological monitoring because of the potential risk these activities pose to archaeological resources and to their depositional context. ▪ The archaeological consultant shall advise all project contractors to be on the alert for evidence of the presence of the expected resource(s), of how to identify the evidence of the expected resource(s), and of the appropriate protocol in the event of apparent discovery of an archaeological resource. ▪ The archaeological monitor(s) shall be present on the project site according to a schedule agreed upon by the archaeological consultant and the ERO until the ERO has, in consultation with the archaeological consultant, determined that project construction activities could have no effects on significant archaeological deposits. ▪ The archaeological monitor shall record and be authorized to collect soil samples and artifactual/ecofactual material as warranted for analysis. 	<p>SFMTA and project archaeological consultant, in consultation with ERO</p> <p>Archaeological monitor and SFMTA and SFMTA's construction contractors</p>	<p>If archaeological monitoring is implemented, prior to any soils-disturbing activities, and during soils disturbing construction at any location.</p> <p>If monitoring is implemented, as construction contractors are retained, prior to any soils-disturbing activities</p> <p>If monitoring is implemented, schedules for monitoring to be established in the AMP, in consultation with ERO</p>	<p>Project archaeological consultant to prepare Archaeological Monitoring Program (AMP) in consultation with the ERO</p> <p>Archaeological consultant to advise all construction contractors</p> <p>Archaeological monitor shall temporarily redirect construction activities as necessary and consult with ERO</p>	<p>SFMTA and project archaeological consultant, in consultation with ERO</p> <p>Archaeological monitor to observe construction according to the schedules established in the AMP for each site.</p>	<p>Considered complete on finding by ERO that AMP is implemented.</p>

EXHIBIT 2: MITIGATION MONITORING AND REPORTING PROGRAM (continued)

MONITORING AND REPORTING PROGRAM					
Adopted Mitigation Measures	Responsibility for Implementation	Mitigation Schedule	Mitigation Action	Monitoring/ Reporting Responsibility	Monitoring Schedule
<ul style="list-style-type: none"> ▪ If an intact archaeological deposit is encountered, all soils disturbing activities in the vicinity of the deposit shall cease. The archaeological monitor shall be empowered to temporarily redirect demolition/excavation/ pile driving/construction crews and heavy equipment until the deposit is evaluated. If in the case of pile driving activity (foundation, shoring, etc.), the archaeological monitor has cause to believe that the pile driving activity may affect an archaeological resource, the pile driving activity shall be terminated until an appropriate evaluation of the resource has been made in consultation with the ERO. The archaeological consultant shall immediately notify the ERO of the encountered archaeological deposit. The archaeological consultant shall, after making a reasonable effort to assess the identity, integrity, and significance of the encountered archaeological deposit, present the findings of this assessment to the ERO. 					

EXHIBIT 2: MITIGATION MONITORING AND REPORTING PROGRAM (continued)

MONITORING AND REPORTING PROGRAM

Adopted Mitigation Measures	Responsibility for Implementation	Mitigation Schedule	Mitigation Action	Monitoring/Reporting Responsibility	Monitoring Schedule
<p><i>Consultation with Descendant Communities:</i> On discovery of an archaeological site¹ associated with descendant Native Americans or the Overseas Chinese, an appropriate representative² of the descendant group and the ERO shall be contacted. The representative of the descendant group shall be given the opportunity to monitor archaeological field investigations of the site and to consult with ERO regarding appropriate archaeological treatment of the site, of recovered data from the site, and, if applicable, any interpretative treatment of the associated archaeological site. A copy of the Final Archaeological Resources Report shall be provided to the representative of the descendant group. If the ERO, in consultation with the archaeological consultant, determines that a significant archaeological resource is present and that the resource could be adversely affected by the proposed project, at the discretion of the project sponsor, either:</p> <p>A) The proposed project shall be re-designed so as to avoid any adverse effect on the significant archaeological resource; or</p> <p>B) An archaeological data recovery program shall be implemented, unless the ERO determines that the archaeological resource is of greater interpretive than research significance and that interpretive use of the resource is feasible.</p>	<p>Archaeological monitor and SFMTA and SFMTA's construction contractors</p>	<p>For the duration of soil-disturbing activities, the representative of the descendant group shall be given the opportunity to monitor archaeological field investigations on the site and consult with the ERO regarding appropriate archaeological treatment of the site, of recovered data from the site, and, if applicable, any interpretative treatment of the associated archaeological site.</p>	<p>SFMTA shall contact ERO and descendant group representative upon discovery of an archaeological site.</p>	<p>Project archaeological consultant shall prepare a FARR in consultation with the ERO.</p> <p>A copy of the FARR shall be provided to the representative of the descendant group</p>	<p>Considered complete on notification of the appropriate descendant group, provision of an opportunity to monitor construction site work, and completion and approval of the FARR by ERO, if necessary.</p>

¹ The term "archaeological site" is intended here to minimally include any archaeological deposit, feature, burial, or evidence of burial.

² An "appropriate representative" of the descendant group is here defined to mean, in the case of Native Americans, any individual listed in the current Native American Contact List for the City and County of San Francisco maintained by the California Native American Heritage Commission, and in the case of the Overseas Chinese, the Chinese Historical Society of America.

EXHIBIT 2: MITIGATION MONITORING AND REPORTING PROGRAM (continued)

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Adopted Mitigation Measures	Responsibility for Implementation	Mitigation Schedule	Mitigation Action	Monitoring/Reporting Responsibility	Monitoring Schedule
<p>If an archaeological data recovery program is required by the ERO, the archaeological data recovery program shall be conducted in accord with an archaeological data recovery plan (ADRP). The project archaeological consultant, project sponsor, and ERO shall meet and consult on the scope of the ADRP. The archaeological consultant shall prepare a draft ADRP that shall be submitted to the ERO for review and approval. The ADRP shall identify how the proposed data recovery program will preserve the significant information the archaeological resource is expected to contain. That is, the ADRP will identify what scientific/historical research questions are applicable to the expected resource, what data classes the resource is expected to possess, and how the expected data classes would address the applicable research questions. Data recovery, in general, should be limited to the portions of the historical property that could be adversely affected by the proposed project. Destructive data recovery methods shall not be applied to portions of the archaeological resources if nondestructive methods are practical.</p> <p>The scope of the ADRP shall include the following elements:</p> <ul style="list-style-type: none"> ▪ <i>Field Methods and Procedures.</i> Descriptions of proposed field strategies, procedures, and operations. ▪ <i>Cataloguing and Laboratory Analysis.</i> Description of selected cataloguing system and artifact analysis procedures. ▪ <i>Discard and Deaccession Policy.</i> Description of and rationale for field and post-field discard and deaccession policies. 	<p>SFMTA and project archaeological consultant, in consultation with ERO</p>	<p>Considered complete once verification of curation occurs.</p>	<p>Consultant to prepare Archaeological Data Recovery Program in consultation with ERO.</p>	<p>Final ADRP to be submitted to ERO</p>	<p>Considered complete on finding by ERO that ADRP is implemented.</p>

EXHIBIT 2: MITIGATION MONITORING AND REPORTING PROGRAM (continued)

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<ul style="list-style-type: none"> ▪ <i>Interpretive Program.</i> Consideration of an on-site/off-site public interpretive program during the course of the archaeological data recovery program. ▪ <i>Security Measures.</i> Recommended security measures to protect the archaeological resource from vandalism, looting, and non-intentionally damaging activities. ▪ <i>Final Report.</i> Description of proposed report format and distribution of results. ▪ <i>Curation.</i> Description of the procedures and recommendations for the curation of any recovered data having potential research value, identification of appropriate curation facilities, and a summary of the accession policies of the curation facilities. 					

EXHIBIT 2: MITIGATION MONITORING AND REPORTING PROGRAM (continued)

MONITORING AND REPORTING PROGRAM

Adopted Mitigation Measures	Responsibility for Implementation	Mitigation Schedule	Mitigation Action	Monitoring/Reporting Responsibility	Monitoring Schedule
<p><i>Human Remains, Associated or Unassociated Funerary Objects.</i> The treatment of human remains and of associated or unassociated funerary objects discovered during any soils disturbing activity shall comply with applicable State and federal Laws, including immediate notification of the Coroner of the City and County of San Francisco and, in the event of the Coroner's determination that the human remains are Native American remains, notification of the California State Native American Heritage Commission who shall appoint a Most Likely Descendant (MLD) (Pub. Res. Code Sec. 5097.98). The archaeological consultant, project sponsor, and MLD shall make all reasonable efforts to develop an agreement for the treatment of, with appropriate dignity, human remains and associated or unassociated funerary objects (<i>CEQA Guidelines</i> Sec. 15064.5(d)). The agreement should take into consideration the appropriate excavation, removal, recordation, analysis, curation, possession, and final disposition of the human remains and associated or unassociated funerary objects.</p>	<p>SFMTA and project archaeological consultant, in consultation with ERO</p>	<p>Ongoing throughout soils-disturbing activities</p>	<p>If applicable, upon discovery of human remains and/or associated or unassociated funerary objects, the consultant shall notify the Coroner of the City and County of San Francisco, and in the event of the Coroner's determination that the human remains are Native American remains, notification of the California State Native American Heritage Commission who shall appoint a Most Likely Descendant (MLD) who, along with the archaeological consultant and the SFMTA, shall make reasonable efforts to develop an agreement for the treatment of human remains and/or associated or unassociated funerary objects</p>	<p>Project archaeological consultant and/or archaeological monitor</p>	<p>Considered complete on notification of the San Francisco County Coroner and NAHC, if necessary.</p>

EXHIBIT 2: MITIGATION MONITORING AND REPORTING PROGRAM (continued)

MONITORING AND REPORTING PROGRAM

Adopted Mitigation Measures	Responsibility for Implementation	Mitigation Schedule	Mitigation Action	Monitoring/Reporting Responsibility	Monitoring Schedule
<p><i>Final Archaeological Resources Report.</i> The archaeological consultant shall submit a Draft Final Archaeological Resources Report (FARR) to the ERO that evaluates the historical significance of any discovered archaeological resource and describes the archaeological and historical research methods employed in the archaeological testing/monitoring/data recovery program(s) undertaken. Information that may put at risk any archaeological resource shall be provided in a separate removable insert within the draft final report.</p> <p>Copies of the Draft FARR shall be sent to the ERO for review and approval. Once approved by the ERO copies of the FARR shall be distributed as follows: California Archaeological Site Survey Northwest Information Center (NWIC) shall receive one (1) copy and the ERO shall receive a copy of the transmittal of the FARR to the NWIC. The Environmental Planning division of the Planning Department shall receive one bound, one unbound, and one unlocked searchable PDF copy on CD of the FARR along with copies of any formal site recordation forms (CA DPR 523 series) and/or documentation for nomination to the NRHP/CRHR. In instances of high public interest or interpretive value, the ERO may require a different final report content, format, and distribution than that presented above.</p>	<p>SFMTA and project archaeological consultant, in consultation with ERO</p>	<p>If applicable, upon completion of cataloguing and analysis of recovered data and findings</p> <p>If applicable, upon approval of Final Archaeological Resources Report by ERO</p>	<p>If applicable, consultant to prepare draft and final Archeological Resources Report reports.</p>	<p>If applicable, the ERO to review and approve the Final Archeological Resources Report</p> <p>If applicable, consultant to transmit final, approved documentation to NWIC and San Francisco Planning Department</p> <p>If applicable, consultant shall prepare all plans and recommendations for interpretation by the consultant shall be submitted first and directly to the ERO for review and comment, and shall be considered draft reports subject to revision until final approval by the ERO.</p>	<p>Considered complete on approval of final FARR.</p>

EXHIBIT 2: MITIGATION MONITORING AND REPORTING PROGRAM (continued)

MONITORING AND REPORTING PROGRAM					
Adopted Mitigation Measures	Responsibility for Implementation	Mitigation Schedule	Mitigation Action	Monitoring/Reporting Responsibility	Monitoring Schedule
<p>Mitigation Measure M-CP-3: Paleontological Resources Accidental Discovery</p> <p>In order to avoid any potential adverse effect in the event of accidental discovery of a paleontological resource during construction of the project, the project sponsor shall be responsible for ensuring that all project contractors and subcontractors involved in soil-disturbing activities associated with the project comply with the following procedures in the event of discovery of a paleontological resource. Paleontological remains, or resource, can take the form of whole or portions of marine shell, bones, tusk, horn and teeth from fish, reptiles, mammals, and lower order animals. In the case of Megafauna, the remains, although partial, may be large in scale. Also paleontological resources include petrified wood and rock impressions of plant or animal parts.</p> <p>Should any indication of a paleontological resource be encountered during any soil- disturbing activity of the project, the project foreman and/or project sponsor shall immediately notify the City Planning Department's Environmental Review Officer (ERO) and one of its designated paleontologists (currently, Dr. Jean De Mouthe/Dr. Peter Roopnarine in the Geology Department of the California Academy of Sciences) and immediately suspend any soil-disturbing activities in the vicinity of the discovery until the ERO has determined what additional measures are needed.</p>	<p>SFMTA and project contractor's Head Foreman</p>	<p>During construction</p>	<p>Project contractor/SFMTA to notify the ERO and one of its designated paleontologists and suspend soils-disturbing activities.</p>	<p>SFMTA and ERO</p>	<p>During construction, upon indication that a paleontological resource has been encountered</p>

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MONITORING AND REPORTING PROGRAM

Adopted Mitigation Measures	Responsibility for Implementation	Mitigation Schedule	Mitigation Action	Monitoring/Reporting Responsibility	Monitoring Schedule
<p>If the ERO determines that a potentially-significant paleontological resource may be present within the project site, the project sponsor shall retain the services of a qualified paleontological consultant with expertise in California paleontology to design and implement a Paleontological Resources Mitigation Plan (PRMMP). The PRMMP shall include a description of discovery procedures; sampling and data recovery procedures; procedures for the preparation, identification, analysis, and curation of fossil specimens and data recovered; and procedures for the preparation and distribution of a final paleontological discovery report (PDR) documenting the paleontological find.</p> <p>The PRMMP shall be consistent with the Society for Vertebrate Paleontology Standard Guidelines for the mitigation of construction-related adverse impacts to paleontological resources and the requirements of the designated repository for any fossils collected. In the event of a verified paleontological discovery, the remaining construction and soil-disturbing activities within those geological units specified as paleontologically sensitive in the PRMMP shall be monitored by the project paleontological consultant.</p> <p>The consultant's work shall be conducted in accordance with this mitigation measure and at the direction of the City's ERO. Plans and reports prepared by the consultant shall be submitted for review and approval by the ERO.</p>	<p>SFMTA and project paleontological consultant in consultation with the ERO.</p>	<p>The project paleontological consultant to consult with the ERO as indicated; completed when ERO accepts final report</p>	<p>SFMTA to retain appropriately qualified consultant to prepare PRMMP, carry out monitoring, and reporting</p>	<p>ERO to approve final PRMMP</p> <p>Project paleontological consultant shall provide brief monthly reports to ERO during monitoring or as identified in the PRMMP, and notify the ERO immediately if work should stop for data recovery during monitoring.</p> <p>The ERO to review and approve the final documentation as established in the PRMMP</p>	<p>Considered complete on approval of final PRMMP.</p> <p>Considered complete on approval of final documentation by ERO.</p>

EXHIBIT 2: MITIGATION MONITORING AND REPORTING PROGRAM (continued)

MONITORING AND REPORTING PROGRAM					
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<i>Hazards and Hazardous Materials</i>					
<p>Mitigation Measure M-HZ-1: Hazardous Materials Soil Testing</p> <p>In order to protect both construction workers and the public from exposure to hazardous materials in soils encountered during construction of the proposed project, the project sponsor agrees to adhere to the following requirements.</p> <p>1) Any soil excavated and then, encapsulated under concrete and/or asphalt covering within the same area as its excavation shall not require testing for the presence of hazardous materials in levels exceeding those acceptable to government agencies unless the TEP project or construction manager determines any extenuating circumstances exist, such as odors, unusual color or presence of foreign material. The reuse, remediation, or disposal of any soil tested and found to contain hazardous materials under these circumstances shall be in compliance with the requirements of the San Francisco Department of Public Health (DPH) and other agencies. The project sponsor shall be responsible for reporting the test results of any soil with hazardous material content to DPH within 21 days of the completion of testing, accompanied with a map showing the excavation location.</p> <p>2) Any excavated soil not reused and encapsulated under concrete and/or asphalt covering within the same area as its excavation, shall be tested for the presence of hazardous materials in levels exceeding those acceptable to government agencies, before it is moved from the area of excavation. The transportation and disposal of the soil shall be in</p>	SFMTA	Soil and groundwater test results containing any hazardous materials shall be submitted to the Department of Public Health (DPH) within 21 days of the completion of testing.	SFMTA project construction contractor shall be responsible for the implementation of Steps 1 – 3.	Department of Public Health	Considered complete on review and approval by DPH of the soil and groundwater testing results, along with maps showing the location of the excavated soil and/or groundwater containing the hazardous materials.

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<p>compliance with DPH, state, and federal requirements. The project sponsor shall be responsible for reporting the test results of any soil with hazardous material content to DPH within 21 days of the completion of testing, accompanied with a map showing the excavation location.</p> <p>3) If the proposed excavation activities encounter groundwater, the groundwater shall be tested for hazardous materials. Copies of the test results shall be submitted to DPH within 21 days of the completion of testing. Any dewatering shall adhere to DPH, SFPUC, and state requirements.</p> <p>In the event that a subsequent ordinance or regulations are adopted by DPH governing the handling and testing of hazardous materials encountered during construction within the public right-of-way, DPH shall be given the option to require the project sponsor to adhere to the implementation of the new ordinance or regulations in lieu of the above requirements if they provide similar safety protection for both construction workers and the public.</p>					

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MITIGATION MEASURES IN DEIR					
<i>Transportation and Circulation</i>					
<p>Mitigation Measure M-TR-8: Optimization of Intersection Operations</p> <p>The final design of program-level TTRPs that include TPS Toolkit elements from the Lane Modifications and Pedestrian Improvements categories shall integrate design elements from the following intersection geometries and traffic control measures to the greatest extent feasible without compromising the purpose of the project. Potential intersection geometry optimization measures include left or right turn pockets, turn prohibitions, restriping to add additional mixed-flow capacity, lane widening to provide for transit-only or mixed-flow lanes, and parking prohibitions. Potential traffic control measures include signalization, exclusive signal phases, and changes to the signal cycle. The final design shall ensure that transit, pedestrian, and bicycle travel are accommodated, is within the confines of feasible traffic engineering solutions, and does not conflict with overall City policies related to transportation.</p>	SFMTA	During development of detailed designs for the program-level TTRP proposals.	Optimize intersection geometries and traffic control measures	SFMTA, Planning Department	Prior to completion of detailed designs for the program-level TTRP proposals.
<p>Mitigation Measure M-TR-10: Provision of Replacement Commercial Loading Spaces</p> <p>Where feasible, the SFMTA shall install new commercial loading spaces of similar length on the same block and side of the street, or within 250 feet on adjacent side streets, of where commercial loading spaces would be permanently removed, in order to provide equally convenient loading space(s). These loading spaces shall only be replaced on streets with commercial uses.</p>	SFMTA	During development of detailed designs for the program-level TTRP proposals.	Where feasible, install new commercial loading spaces.	SFMTA with review by Planning Department,	Prior to or concurrent with the removal of on-street commercial loading spaces.

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<p>Mitigation Measure M-TR-26: Intersection Restriping at 16th/Bryant streets</p> <p>The SFMTA shall reconfigure the proposed changes at the intersection of 16th/Bryant streets converting the westbound approach of 16th Street at Bryant Street from what is proposed to be a shared through-right turn lane to a through lane and a dedicated right-turn pocket adjacent to the through lane, and reconfigure the eastbound approach from what is proposed to be a separate through lane and a dedicated right-turn pocket adjacent to the through lane to a shared through/right lane</p>	SFMTA	During project implementation	Reconfigure westbound and eastbound approaches of 16th Street at Bryant Street	Planning Department, SFMTA	Prior to completion of detailed design for project-level improvements at 16th/Bryant streets.
<p>Mitigation Measure M-TR-48: Enforcement of Parking Violations</p> <p>On streets where implementation of project-level TTRPs would result in a net reduction of on-street commercial loading spaces, the SFMTA shall enforce parking regulations in transit-only lanes through the use of video cameras on transit vehicles and/ or other parking enforcement activities.</p>	SFMTA	Ongoing after implementation of TTRP improvements.	Enforce parking regulations and/or install video cameras on transit vehicles.	SFMTA	Ongoing
<p>Mitigation Measure M-C-TR-1: SFMTA Monitoring of Muni Service</p> <p>The SFMTA, shall, to the extent feasible and consistent with annual budget appropriations, continue to monitor Muni service citywide, reporting as required on service goals, including the capacity utilization standard, and where needed, and as approved by decision makers and under budgetary appropriations, strive to improve upon Muni operations, including peak hour transit capacity on screenlines and corridors.</p>	SFMTA	Ongoing, after implementation of TEP improvements.	SFMTA to monitor transit service goals and proposed improvements to Muni operations.	SFMTA	Ongoing.

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MONITORING AND REPORTING PROGRAM					
Adopted Mitigation Measures	Responsibility for Implementation	Mitigation Schedule	Mitigation Action	Monitoring/Reporting Responsibility	Monitoring Schedule
<p>Mitigation Measure M-C-TR-49: Explore the Implementation of Parking Management Strategies. SFMTA shall explore whether implementation of parking management strategies would be appropriate and effective in this and other parts of the City to more efficiently manage the supply of on-street parking over time.</p>	SFMTA	Ongoing during implementation of TEP.	Identify and explore new parking management strategies, particularly along the TTRP corridors	SFMTA report to SF Planning	Ongoing during project implementation.

EXHIBIT 2: MITIGATION MONITORING AND REPORTING PROGRAM (continued)

MONITORING AND REPORTING PROGRAM

IMPROVEMENT MEASURES FOR THE TRANSIT EFFECTIVENESS PROJECT

Improvement Measure I-TR-1: Construction Measures

During the construction of all TEP projects, the SFMTA shall require the following:

- 1) Construction contractors shall be prohibited from scheduling any truck trips, such as concrete mixers, heavy construction equipment and materials delivery, etc., to the construction sites during the a.m. (7 to 9 a.m.) and p.m. (4 to 6 p.m.) peak commute periods.
- 2) All construction activities shall adhere to the provisions in the City of San Francisco’s Regulations for Working in San Francisco Streets (Blue Book), including those addressing sidewalk and lane closures. To minimize construction impacts on nearby businesses and residents, the SFMTA shall alert motorists, bicyclists, and nearby property owners of upcoming construction through its existing website and other available means, such as distribution of flyers, emails, and portable message or informational signs. Information provided shall include contact name(s) for the SFMTA project manager, public information officer, and/or the SFMTA General Enforcement Division contact number (311).
- 3) Construction contractors shall encourage construction workers to use carpooling and transit to the construction site in order to minimize parking demand.

SFMTA and project construction contractor(s)

Throughout the construction duration for any TEP component requiring construction.

SFMTA and project construction contractor(s) to coordinate construction related activities with DPW, the Fire Department, the Planning Department, and any other City agencies.

SFMTA

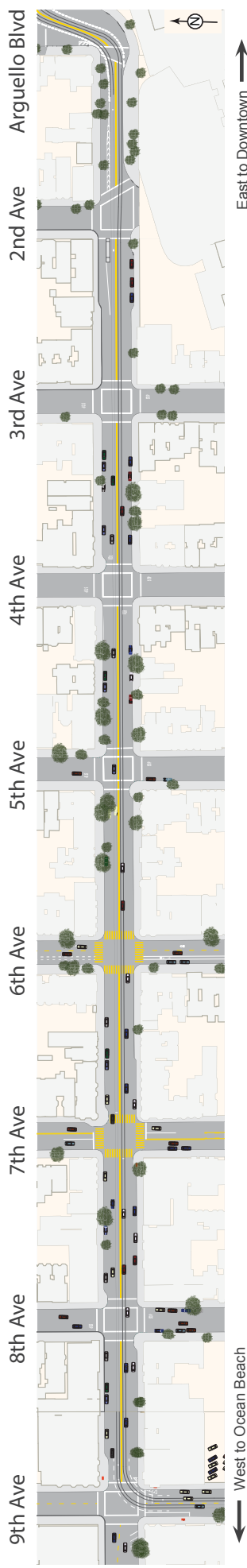
Considered complete after completion of construction activities.



Irving Street

Project Overview

Irving Street EXISTING CONDITIONS



Irving Street SUMMARY OF PROPOSED CHANGES



New Pedestrian Bulb on Irving St at 3rd Ave

- Improves pedestrian safety by reducing the crossing distance at intersections.



Sidewalk Bulb on Arguello Blvd at Irving St

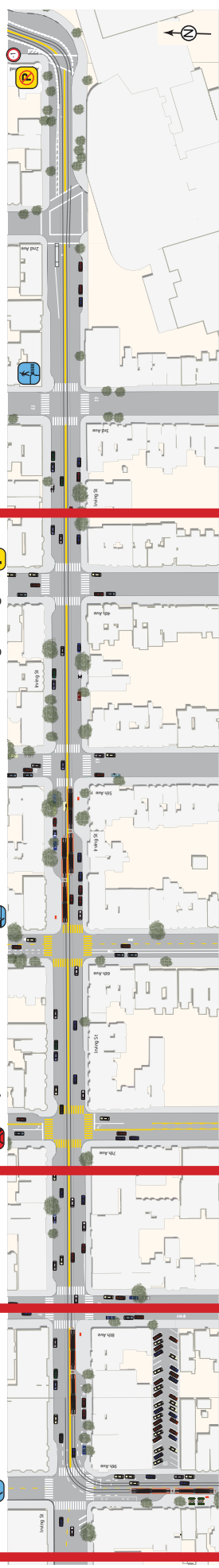
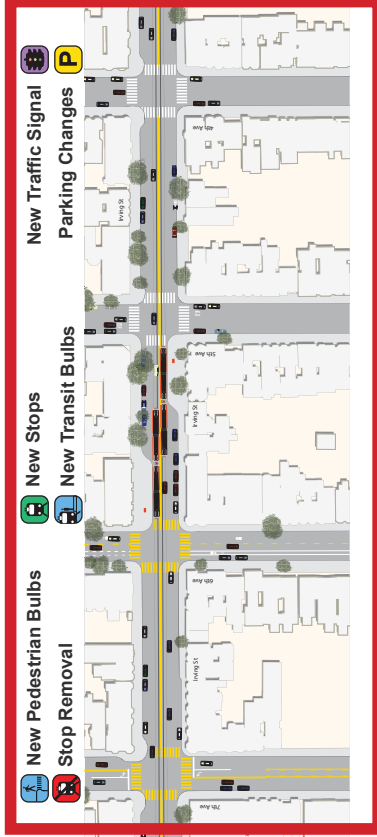
- Adding a bulb here will keep illegally parked cars away from the train's dynamic envelope.
- Train operators must slow down or stop when they are unsure if the train will have enough clearance around an obstacle. Preventing this would improve safety, reduce delays and make Muni more reliable.
- Would remove one parking space.

East to Downtown →

IRVING AND 9TH (see detailed board)



IRVING FROM 4TH TO 7TH (see detailed board)





Irving and 9th

Proposed Changes



Relocate Stops at Irving and 9th Ave to after traffic signal

- Placing the transit stops on the other side of the traffic light would let Muni get through the intersection prior to loading and unloading.
- All users of the intersection would benefit because the train would require less time to clear the intersection.
- Passengers would save time and Muni would be more reliable.



Pedestrian Bulbs at Irving and 9th Ave

- Improves pedestrian safety by reducing the crossing distance at the intersection. A shorter crossing distance for pedestrians also means less time stopped at red lights.
- Provides street space for potential streetscape amenities.



Remove Loading Zone on 9th Ave south of Irving

- 1 of 2 loading zones would be removed to provide space for the transit bulb.



New Parking on northbound 9th Ave at Irving

- Two metered parking spaces are made available on 9th Ave for parking because the existing stop will be relocated to Irving St.



Install Bulbs at Irving and 9th Ave

- Bulbs provide transit riders a safe place to wait for the train, and eliminate the need to board the train from the street. This makes boarding safer and faster.
- Widening the sidewalks from 12 feet to 24-29 feet would provide space for amenities like café seating, benches, transit shelters, bike racks, trees, and landscaping depending on community input. The existing "parklet" in front of Arizmendi could be incorporated into the design and made permanent.



Short-Term Parking on 8th Ave and on Irving St

- Two metered spaces, one on 8th Ave and one on Irving St, would be converted to 30 min parking.
- Restores two short term spaces displaced by the proposed transit bulb at 8th and Irving.





Irving from 4th to 7th

Proposed Changes



Remove Stops at 7th Ave and 4th Ave

- Fewer stops along the route means Muni can travel the same distance in less time.
- The transit stops at 4th and at 7th would be consolidated into a new stop between 5th and 6th.
- The average distance between stops would increase from 700 feet to 1000 feet.



New Stops between 5th and 6th Ave

- Adding stops in this location would space stops more evenly along the route.
- Even spacing provides a balance between time spent walking to or from a stop and time spent riding the train for the average person.



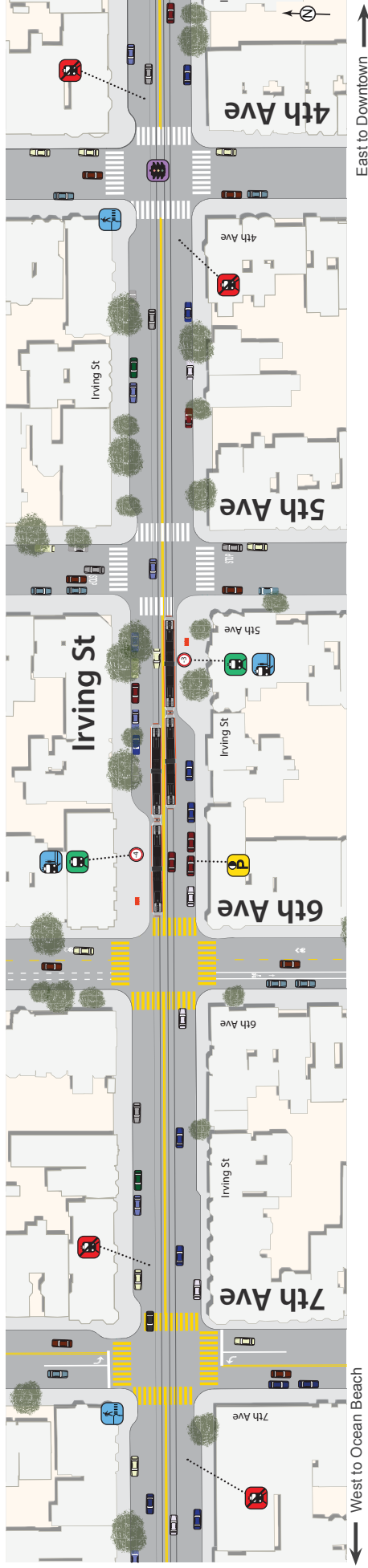
New Pedestrian Bulbs at 4th Ave and 7th Ave

- Improves pedestrian safety by reducing the crossing distance at intersections. A shorter crossing distance for pedestrians also means less time stopped at red lights.



New Traffic Signal at Irving St and 4th Ave

- Reduces the amount of stops the train makes along its route and makes it possible to introduce transit signal priority (TSP) at intersections.
- TSP keeps the light green for Muni as it approaches an intersection, saving time.



Install Transit Bulbs between 5th Ave and 6th Ave

- Bulbs provide customers a safe place to wait for their train. Customers would no longer have to wait on the sidewalk and board the train in the street.
- Provides for seamless boarding of trains from the sidewalk for only the first car of a two-car train.
- This makes boarding faster and saves time at each stop, making every passenger's journey shorter.
- Avoids extending the bulbs through driveways, and would remove three parking spaces on the south side of Irving and four spaces on the north side for a total of 7 spaces.
- Allows space for a potential future project to add high-level accessible platforms for wheelchair boarding.



New Passenger Loading Zone on Irving St at 6th Ave

- A new passenger loading zone (white zone) would be established at the corner of 6th Ave and Irving St, replacing an existing parking space.



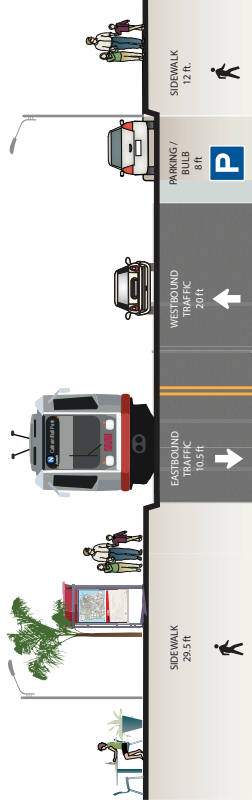
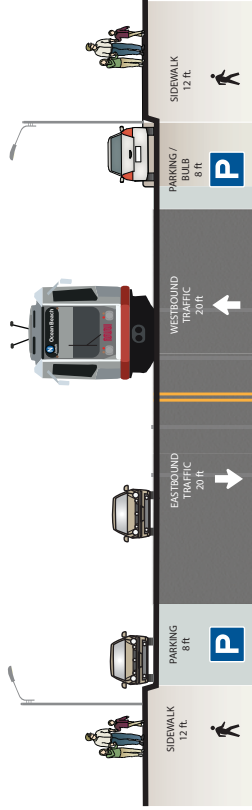
Irving Street

Cross-Sections

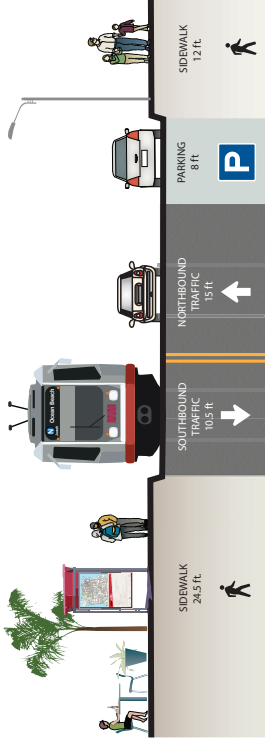
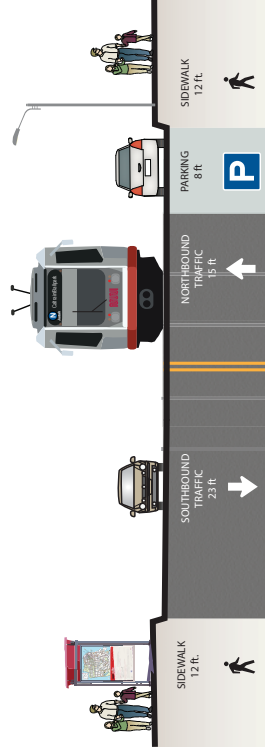
Existing Conditions

Proposed Changes

Irving Street at 9th Ave, facing west



9th Avenue at Irving St, facing north



Irving Street between 5th Ave and 6th Ave, facing west

