



3. OPERATIONS AND MAINTENANCE

3.1 PRELIMINARY OPERATIONS AND MAINTENANCE PLAN

3.1.a Overview

Golden Link Partners’ (GLP) integrated approach to maintenance uses a combination of resources, processes, and procedures developed to meet or exceed the Project performance standards. GLP’s experienced team understands the scope and desired outcomes of the Project.

Our multidisciplinary task forces active throughout the Proposal, development, and delivery of this Project, provide for optimization of O&M functions during the Construction Period and the O&M Period. Comprised of design, construction, and O&M personnel, these task forces have jointly reviewed constructability, maintainability, and operability of both typical and unique Project components, incorporating common solutions into the design and developing efficient approaches to resources to meet the distinct requirements of O&M before and after Substantial Completion.

We define analysis of these components for lifecycle performance and cost over the Term including handback requirements to ensure GLP has a unified approach to, and understanding of, the final design. Project task forces will continue to meet and coordinate upon NTP 1 through to Final Acceptance.

GLP has analyzed the O&M requirements in the Agreement, Division II – Section 4; Table 4.1 and 4.2, along with the relevant technical requirements from the Department’s maintenance manuals to develop an initial work plan for O&M during the Construction Period and the O&M Period. As design plans finalize and construction begins, we will update these plans with the necessary changes to meet or exceed the Department’s desired outcomes including:

<ul style="list-style-type: none">• Reporting<ul style="list-style-type: none">▪ Monthly and annual operations reports▪ Renewal reports▪ Sustainability reports	<ul style="list-style-type: none">• Asset performance outcomes• Incident response• Renewal• Handback
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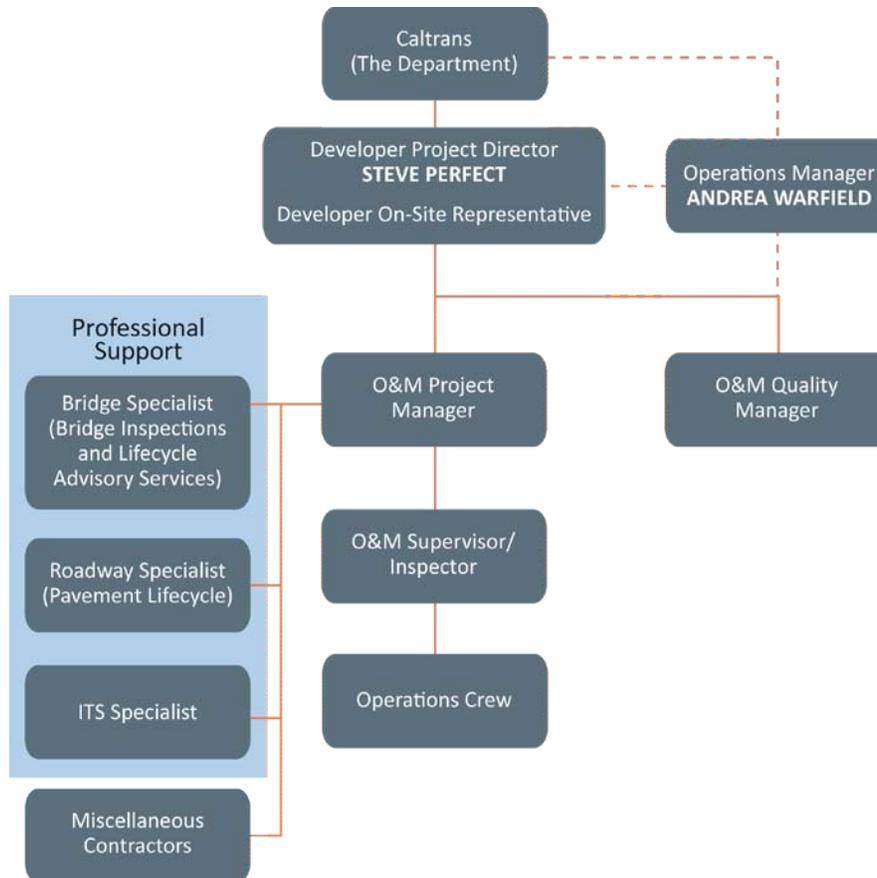
Organization

1 1.3.A GLP has developed our O&M organizational structure with consideration of the scope of the O&M work, specifically:

<ul style="list-style-type: none">• Providing for the maintenance and operations within the O&M Limits for the duration of the Term• Providing for the Project’s renewal work• Providing for first responded incident/emergency response and emergency repair

GLP’s approach is to maintain an efficiently staffed O&M office close to the Project site, both during the Construction Period and the O&M Period. Details of this organization are provided in Volume 2, Appendix 1, and illustrated in Figure 15.

Figure 15: O&M Organizational Chart



GLP’s operations manager and the O&M project manager will ensure the resources necessary are available to satisfy the varying obligations during the Construction Period and the O&M Period. Both individuals will have direct access to the Developer project director to ensure efficient interface and information transfer throughout the Project Term.

The operations manager will provide specialist advice to the O&M team, and the Developer, and act as a commercial liaison to the Department. The O&M project manager will be responsible for the daily management of the O&M work activities.

The operations manager will be fully supported by professional consultants for required inspections, incidental design for renewal work, and continued operability of the systems. A combination of in-house and Contractor support will provide the routine and periodic



maintenance requirements on the system as well as the incident and emergency management response.

Based on the workload in the final plans, GLP will secure the necessary staff to perform the expected work. The intent is to utilize local Contractors, as well as those from the DBJV to accomplish the O&M during construction. This staff will be adjusted for the O&M Period to accommodate the increased workload. In each case, GLP will supplement resources with Contractors as necessary.

Plans and Procedures

GLP has plans and procedures for the following items identified in the Division II, Section 4:

<ul style="list-style-type: none">• Health and safety• Traffic and maintenance of traffic training• Incident response• Emergency response• GLP’s Maintenance Manual• GLP’s Operations Manual• Meeting the Department’s Level of Service Handbook rating requirements• Tunnel system monitoring and reporting• Escort Service Plan	<ul style="list-style-type: none">• ITS monitoring and reporting• Quality management<ul style="list-style-type: none">▪ Process for reporting non-compliance:<ul style="list-style-type: none">– Points– Events– Availability• Coordination of permits and inspections• Obtaining government approvals
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GLP will develop a Draft Transition Plan for discussion with the Department, which will provide the tasks necessary to transfer the Project to the Department at the completion of the O&M Period.

3.1.b Internal Monitoring

GLP will monitor compliance for performance criteria through a daily work reporting Maintenance Management System as well as internal and external processes. Some examples of internal and external processes include:

Internal Process

GLP will conduct routine and required inspections and use a traffic operations center to detect work needs.

External Process

The use of a Maintenance Management System method of tracking customized to prompt the user on the necessary inputs to adhere to performance standards, effectively automating the procedures necessary for compliance. Once the inputs are entered, the system will generate notices and reports automatically on the success of compliance to include redundant



notification of the responsible party, as well as the operations manager. These notices can and will include subcontractors and other third parties as applicable.

In addition to the performance requirements for activities that occur on the system, there are a number of element categories that are subject to non-compliance including:

<ul style="list-style-type: none">• Department’s Level of Service Rating Program (LOS 2000)• O&M plans and reports• Renewal work plans and updates• Emergency reports	<ul style="list-style-type: none">• ITS data imports• Sustainability Management Plan• Permits• Incident and emergency response reports
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1 1.3.B.a These tasks will be treated as work orders in the Maintenance Management System, which will provide the same visibility to operations management of due dates and work accomplished. The system will have penalties associated with the appropriate performance outcomes related to the due dates and times. Based on the reporting of the accomplishment of a task, the system will automatically calculate payment adjustments if performance measures are missed. GLP will provide the Department one compliance report monthly that incorporates both of these categories of work for compliance.

3.1.c Tracking Non-Compliance Points

The backbone of the baseline data and the collection by asset of the work accomplished over time will be the Maintenance Management System, which will contain the complete inventory and condition of assets for the project. Each element of work will have the performance standard attached to enable the work planners to properly program activities to meet Project requirements. The work plan is captured in the system and the subsequent work is categorized as planned, reactive, preventive, and rehabilitative and reported to the system as work is accomplished. Work needs beyond those planned are reported daily to the system through:

<ul style="list-style-type: none">• The Department• Regulatory structure inspections	<ul style="list-style-type: none">• Daily maintenance patrol and system monitoring by staff and Contractors• Traffic operations center
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1 1.3.B.b Work added to the Maintenance Management System will contain date and time entries and will be defined by the performance outcome. Work accomplished will also contain date and time information. In addition, GLP will associate non-compliance event classification codes with the performance outcomes. Operations management will use this tool to both plan work and to ensure that work is being performed in compliance with the schedule requirements of the Project. The system will automatically prepare reports showing adherence or deviations from the performance criteria, including calculations of non-compliance points if applicable.



3.1.d Verifying Compliance

GLP will proactively execute our quality program to ensure that all O&M systems and resources are accurate and timely. As a part of GLP’s integrated team, the O&M quality manager fits into the overall quality organization, while still remaining independent of the O&M project manager and other O&M staff. Details of this quality organizational structure and GLP’s approach to quality management are located in Volume 1, Section 1.1.i. Developer’s Preliminary Quality Plan.

While the operations manager is responsible for day-to-day quality, safety, training, and adherence to O&M procedures and processes, the O&M quality manager is responsible for the development of a quality plan that adheres to the Department’s LOS 2000. The O&M quality manager will conduct the system evaluation and prepare the rating reports. In addition, the O&M quality manager will test the Maintenance Management System by selecting random work samples and checking those against actual accomplishments and the Non-Conformance Report.

The O&M quality manager will perform trend analysis and, in coordination with the operations manager, make recommendations for corrective action to increase staff training and awareness; add procedures or processes; and increase communication of challenges.

In addition, the O&M quality manager will be responsible for the following routine reports:

<ul style="list-style-type: none">• O&M Quality Plan• Quarterly and annual LOS 2000 rating reports• Quality audit reports	<ul style="list-style-type: none">• Performance Monitoring Report• Non-Conformance Report analysis• Corrective action plans (if required)
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3.1.e Implementation Plan

GLP’s approach to implementing a successful O&M plan is based on the team’s extensive experience in O&M and early and detailed planning. The interaction between design, construction, and maintenance staff provides for system assets that are maintainable, reliable, and cost effective over time.

1 1.3.B.c Decisions made throughout this process form the basis for the O&M Asset Management Plan. This plan overlays the actual infrastructure constructed with the anticipated routine and preventive maintenance needs over time. Integrated into these routine activities is the lifecycle cost for maintainability of each of the applicable structures. By analyzing this interrelationship, GLP will optimize the asset work efforts over time.

The Asset Management Plan is a living document, updated continuously over time. The routine and required inspections, actual work performed and performance of the assets as predicted



will be the basis for updating the Asset Management Plan and subsequently the rehabilitation plan. The O&M plan for construction and the O&M plan for operations are derived from the Asset Management Plan.

Deliverables

The draft O&M for construction and O&M operating plans will be delivered to the Department for review and comment 90 days prior to the start of operations. The final plans will be delivered 30 days prior to the start of operational activities. GLP will determine allocation of resources to meet the projected work needs by considering daily occurring work, periodic activities, local availability of resources, timeliness of activities, and licenses and certifications.

Resources

The O&M project manager will develop the operational resources required to meet the Project requirements by utilizing an efficient method of response to the routine activities of the Project and balancing with the expected workload. Periodic, occasional, or specialty work will be contracted to local Contractors. We intend to have redundancy for activities built into our subcontract plan to further ensure that timeliness requirements will be met and as an immediate source of forces for unexpected events and emergencies.

Any Contractor performing a portion of the O&M will be held to the same standards of safety and quality as our in-house staff. They are required to demonstrate adequate procedures and processes in place for training in these areas. In addition, they will participate in GLP's toolbox meetings for rehabilitation work. They will also be invited to our regularly scheduled training seminars.

Tools

The Maintenance Management System will be the primary tool that allows the O&M project manager to document actual work against planned work; make additions to the work plan on a daily basis as necessary; and monitor for conformance of system requirements.

3.1.f Approach to Routine Maintenance

1 **1.3.B.d** GLP's approach to routine maintenance includes a focus on preventive and routine maintenance to support the rehabilitation and successful handback plans as well as defining response times to the required elements. Our overall goal for operations is to meet or exceed Department expectations while performing operations in a safe manner for the operations staff, Contractor, and the traveling public.

Organization

GLP has developed a preliminary organization structure based on the response times necessary to meet the requirements of incident and emergency response due to equipment failures or events. GLP's O&M office will house the ITS operating systems, and the operations manager and O&M supervisors will work on shifts to provide the necessary coverage to meet the

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strictest response times of 10 minutes for incidents and emergency equipment repairs Monday through Friday from 6:00 am to 7:00 pm.

O&M technicians will also provide incident response and perform general routine maintenance such as pavement patching, vegetation removal, and preventive maintenance on the systems and ITS equipment.

GLP will train staff in maintenance of traffic procedures, safety procedures for working on active travel lanes, and overall customer service. Vehicles will contain toolboxes, safety equipment, and basic maintenance of traffic devices such as cones and signs. We will supply a trailer containing arrow boards in the event of an incident that requires lane closures.

O&M staff will be supported by Contractors and consultants for structures inspections, roadway condition assessments, traffic light inspections, system operability reviews and adjustments. GLP will maintain on-call contracts for critical roadway elements such as structures and systems.

Reporting

The O&M project manager will be in contact with the Department but ultimately report to the Developer project director and will be responsible for deliverables such as monthly and yearly reports, renewal reports, Maintenance Management System inventory data, and updates to the Sustainability Management Plan.

Emergency reporting will be performed by the staff member responsible for responding to the incident. The O&M project manager will provide due diligence on each emergency report sent to the Department by other staff and will also be responsible for ensuring that any necessary permits to perform work on the system are in place before work begins.

All O&M staff will be responsible for maintenance patrols. A benefit to the small size of the system is that alternating staff can and will ride and walk the system providing multiple views of the assets and their performances.

Maintenance Categories

Beyond activities included in response to incidents, there are major categories of work and corresponding performances requirements for each. The following represents a synopsis of our approach to routine maintenance in each of these categories.

Flexible Pavement

Flexible pavement on the system will be inspected in accordance with the Department's Maintenance Manual Volume II, Section 4 for the A Family. Once a year, GLP will perform a pavement condition assessment to determine the ride quality. We will analyze ride quality values approaching an International Roughness Index (IRI) of 95 add to the work program.

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Further, we will address ride quality issues exceeding an IRI of 95 within 90 days. Additional performance requirements include the following:

Performance Requirements	Timeline
Repair all cracks greater than or equal to 0.25 in. wide	90 days
Repair all settlement/depression greater than 1.5 in. deep over any 50 foot length	30 days
Repair all wheel ruts greater than 1.0 in. deep	90 days
Repair drip-track ruts over 0.5 in. deep	90 days
Repair alligator cracking in excess of 30 percent	90 days
Repair all potholes and slippage areas greater than 0.5 SQFT in area and/or 1.5 in. deep	24 hours

Flexible pavement requirements in Volume II of the Maintenance Manual which have a 90 day performance standard include pavement edges, shoulder and longitudinal joints, and paved shoulder repairs. Our patrols will routinely be aware of these conditions and we will plan preventive work in the maintenance program to reduce the occurrence of issues necessary to be performed within the timeliness standards. O&M technicians will perform routine flexible pavement repairs. Qualified Contractors will perform repairs beyond those considered routine, such as large base failures, partial mill and overlay, or other pavement treatments requiring specialty equipment.

Rigid Pavement and Bridge Decks

As with the flexible pavements, we will inspect rigid pavement on the system in accordance with Maintenance Manual Volume II, Section 4 for the A Family. GLP will perform pavement condition assessments for both flexible and rigid pavement concurrently to determine the ride quality. We will analyze ride quality values approaching an IRI of 95 add to the work program. Further, we will address ride quality issues exceeding an IRI of 95 within 90 days. Additional performance requirements include the following:

Performance Requirements	Timeline
Repair all cracks greater than or equal to 0.25 in. wide	90 days
Repair all settlement/depression greater than 1.5 in. deep over any 50 ft. long	30 days
Level adjacent slabs if the deviation at the joint exceeds 0.5 in.	90 days
Repair all spalls exceeding 4 in.	90 days
Repair all potholes and slippage areas greater than 0.5 SQFT in area and/or 1.5 in. deep	24 hours

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Rigid pavement requirements in Volume II of the Maintenance Manual that have a 90-day performance standard include transverse and longitudinal joints, shoulder joints, and seal coating.

As with flexible pavements, GLP daily patrols will routinely be aware of these conditions. We will plan for preventive work in the maintenance program to reduce the occurrence of issues necessary to be performed within the timeliness standards. O&M technicians will perform routine rigid pavement repairs. Qualified Contractors will perform repairs beyond those considered routine, such as large base failures, partial mill and overlay, or other pavement treatments requiring specialty equipment.

Slopes, Drainage, and Vegetation

We will inspect slopes, drainage structures, and vegetation in accordance with the Maintenance Manual Volume II, Section 4 for the C Family.

Performance requirements include the following:

Performance Requirements	Timeline
Maintain tree and shrub growth to provide at least a 17-ft. high clearance above all travel lanes and shoulders	7 days
Maintain mowable areas at a height between 3 in. and 6 in.	7 days
Maintain a narrow clear strip of 4 ft. next to pavement edges	7 days
Maintain all portions of the travel lanes, shoulders, curbs, gutters, and drainage structures free of plant growth and vegetation	7 days
Maintain all walls, barriers, and other roadway features free of undesirable vegetative growth	7 days
Repair or replace damaged and/or broken fences which no longer provide access control and/or a physical barrier	48 hours
Fences should be functional and free of unsightly rust and vegetation; fences and fence posts should be plumb and top rails should be level with no sag or deflections	30 days

Other applicable technical requirements for slopes, drainage, and vegetation control outlined in Maintenance Manual Volume I, Section C2 and Maintenance Manual Volume II, Section 4 include inspecting ditches, channels, culverts, drains, inlets, underdrains, and pipes for shape and serviceability; correcting vertical drops or depressions adjacent to shoulders; and ensuring visibility.

For fences, added requirements include notifying property owners of needed fence repair.

GLP's routine patrols will be aware of these conditions and will, when able, correct deficiencies upon discovery. We will perform planned mowing and pesticide treatments to meet Project

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requirements. Licensed individuals will apply pesticides and follow applicable regulations including Presidio Trust Roads and Grounds Integrated Pest Management Program Week Management Guidelines.

Retaining Walls

GLP will keep retaining wall weep holes open and be mindful of potential erosion on wall bases during routine inspections, especially following periods of heavy rain. Licensed professionals will inspect structures every two years and analyze inspections reports for changes in expected life of the retaining walls and the resulting information will provide updates to the rehabilitation and handback strategies.

Litter, Debris, and Graffiti

GLP will treat debris that causes a safety issue on the system as an incident, and respond to activities associated with debris removal within the Department's timeliness requirements. Further, we will dispose of debris recovered from the system in accordance with applicable laws and regulations.

We will inspect areas for litter and graffiti in accordance with Maintenance Manual Volume II, Section 4 for the D Family. GLP will meet performance requirements for litter and graffiti primarily by our routine patrols by removing upon discovery if there is a safety concern or as part of our full system-wide litter pick up.

GLP will also make efforts to identify potential local Adopt-a-Highway groups. Interested groups will receive safety training and we will provide them with safety vests and litterbags. Coordination with these groups will include scheduling litter pick up days in times of minimal traffic. We will also collect the litterbags when a scheduled pick up is complete.

Landscaping

Major landscape areas will be transitioned to the Presidio Trust in accordance with the Project documents. Minor landscaping remaining within the Project right-of-way will include grass and small-planted areas. We will routinely keep mowable areas between 3 in. and 6 in. in height. Further, we will maintain a 17-ft. high clearance above travel lanes and a clear strip of 4 ft. next to pavement edges.

Certified applicators will apply chemical treatments as necessary and GLP staff will clear undesirable growth from Project assets including structures and pavement.

Stormwater

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GLP will inspect drainage elements in accordance with Maintenance Manual Volume II, Section 4 for the C Family. We will treat standing water in the travelled lanes as an incident and resolve according to the procedures established for incident response.

GLP will inspect drainage elements in particular after heavy or prolonged rain events and perform periodic cleaning of debris if flow decreases occur.

Our patrols will be aware of unauthorized connections or discharges and will report these events.

Structures: Major and Minor Damage

GLP will perform regulatory inspections on system structures bi-annually, then add any routine, preventive, and repair activities identified by these inspections to the work program. Staff will bundle work elements requiring Contractors to the extent possible to provide efficiencies in quantities of work performed.

Our routine patrols will be aware of miscellaneous structural maintenance features such as weep holes, spall areas, cracks, or nesting birds and add identified needs to the work program.

GLP will wash tunnels on a quarterly basis and perform confined space air quality testing to ensure carbon monoxide levels are within parameters defined in the Contract.

GLP will treat damage to structures as an incident, and respond to activities associated with rehabilitation in accordance with the Incident Response Plan and the contract requirements.

Our first priority will be to make the area safe. Once that is achieved, we will restore traffic as quickly and safely as possible. GLP will repair minor damage using on-call structures services Contractors if the required repairs are beyond that which can be accomplished by O&M technicians. A licensed professional engineer will assess major repairs, evaluate proposed options, and then GLP will communicate selected repair options and associated schedules to the Department.

Systems

System maintenance and operability will consist of routine and preventive maintenance, repair or replacement, rehabilitation, or technology refresh in accordance with individual system performance and in compliance with the contract requirements and the renewal schedules. Systems include the following:

<ul style="list-style-type: none">• Tunnels• Fire protection/detection monitoring• Electrical power distribution	<ul style="list-style-type: none">• SCADA• Security• ITS and communication
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Project systems will follow quarterly preventive maintenance schedules. Each preventive maintenance check will include an analysis of the performance of the system based on its lifecycle. GLP will maintain spares and consumables applicable to each system at our operations facility. We will schedule early rehabilitation or replacement of systems performing below expectations as needed.

GLP will monitor system operability parameters through the integration of the ITS system. We will monitor systems for performance and repeat failures from our operations facility. Through this monitoring, we will schedule early interventions for systems trending toward operational failure and treat necessary emergency repairs as an incidents following accordance with Incident Response procedures.

Existing Communications

Damage to fiber optic cable or other communications elements will be temporarily corrected within four hours. We will have a qualified subcontractor on-call with the ability to respond quickly to both temporary and permanent repairs.

Electrical

GLP will monitor highway, tunnel, and sign lighting by our routine patrols both during the day and at night. Individuals will add any instances of non-functioning luminaries to the work plan in a schedule to ensure performance outcomes are met. We will treat any instance of three consecutive non-functioning luminaries as an emergency and deploy an on-call emergency Contractor for these instances if our technicians are unable to perform this work.

Our renewal plan for luminaries involves re-lamping the total Project by luminaries' type lifecycle. We will carefully monitor trends in luminary outages to ensure that the predicted lifecycles are consistent with actual performance on the system. GLP will continuously update adjustments based on this analysis during both the routine operations plan and the renewal plans to ensure optimum outcomes.

GLP will also evaluate opportunities for sustainability throughout the life of the Operating Period. As new technologies emerge and are applicable to the lighting needs of the Project, each will be evaluated for efficiencies, performance, and lifecycle costs. Potential new technologies include more efficient light bulbs and reflective sign markings that reduce or eliminate the need for sign lights.

Traffic Signals

A qualified Contractor will maintain traffic signals; routine maintenance will consist of scheduled preventive maintenance, spot repairs, and emergency call-outs. Our routine patrols will be aware of signalization issues and will report any instances of signal malfunctions to the Maintenance Management System for production of a work order and then email the work



orders directly to the Contractor. Either GLP patrols or supervisors will perform inspection of Contractor work, depending upon the nature of the work performed.

Traffic Guidance

Traffic guidance activities will be performed in accordance with Maintenance Manual Volume II, Section 4 for the M Family. Elements in this category include the following:

<ul style="list-style-type: none">• Pavement markings/delineators• Signage• Guardrail	<ul style="list-style-type: none">• Barrier walls• Attenuators
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Operationally, at least once a year, GLP will perform a night inspection to determine the effectiveness of the pavement markings. Markings at risk of failure will be added to the work program. Our routine patrols will be aware of miscellaneous missing markers or deficient spots. Technicians will perform spot repairs to striping and symbols and replace markers. We will coordinate routine work program with the renewal work program to ensure that maximum serviceable life of markings is achieved in relationship to scheduled pavement overlays that will include new markings.

Signs will be checked by GLP patrols for visibility, vertical position, graffiti, and damage. We will replace missing regulatory and warning signs immediately upon discovery. We will add other noted sign deficiencies not posing a safety concern to the work program within the defined response time criteria. Further, GLP will coordinate any signs recommended for relocation with the Department’s District Traffic Operations Unit. We will monitor signage changes over time that renders select signs obsolete throughout the O&M Period.

GLP will routinely inspect guardrails to ensure they are functioning as intended and note any spot painting need within the maintenance plan. We will secure the area surrounding a damaged guardrail with traffic cones or barriers immediately upon discovery to ensure safety. An emergency Contractor qualified in guardrail repair will respond within timeliness requirements.

GLP patrols will inspect barriers and attenuators to ensure they are functioning as intended. Damage to these elements will be addressed according to both the timeliness response criteria and with respect to safety.

3.1.g Incident and Emergency Response 1 1.3.B.e

1 1.3.B.i **Incident Response**
GLP will perform incident response in consideration of time, resources, and safety. We are aware that the Department, emergency response agencies, and/or environmental

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regulatory agencies may access the facility. Our O&M team will be aware of the needs of these agencies and support their activities on the system.

GLP's O&M team will include trained personnel to conduct regular maintenance activities on the Presidio Parkway and will provide the response capability in compliance with the performance requirements. Staff will respond with the fully outfitted vehicles for traffic control and minor spill containment within the specified response times as follows:

Activity	Timeline
Debris removal	30 minutes, Monday to Friday 6:00 a.m. to 7:00 p.m.
Debris removal	90 minutes
Spills and hazardous waste	30 minutes, 24 hours a day, 7 days a week
Systems emergencies	10 minutes, Monday to Friday 6:00 a.m. to 7:00 p.m.
Systems emergencies	60 minutes
Incident response	10 minutes, 24 hours a day, 7 days a week

Incident response communication will occur by emergency agencies, police, fire, and 911 notifications, traffic operations center notifications and routine operational patrols.

Upon arrival at the incident, GLP will initiate any necessary traffic control and immediately address unsafe conditions with appropriate maintenance measures. Our staff will arrive at the scene of an incident prepared in a vehicle equipped with traffic cones, message boards, and other emergency material such as absorbents for spills.

Should an incident require additional resources, procedures will be in place to provide for notification to the operations manager and stand-by staff. In addition, local Contractors will be on-call for support.

Activity	Timeline
Close one travel lane and clear incidents involving a vehicle breakdown or minor accident (no injuries); non-hazardous material spill or debris	30 minutes
Close one travel lane and clear incidents involving a single vehicle accident (with injuries)	40 minutes
Close all travel lanes closed in one direction and clear incidents involving a multiple vehicle accident (with multiple injuries, but no fire or fatalities)	80 minutes
Close all travel lanes closed in one direction and clear incidents involving a multiple vehicle accident (with multiple injuries/fatalities, with or without fire)	2 hours
Close all travel lanes closed in one direction and one or more travel lanes closed in the opposite direction and clear incidents involving a multiple vehicle accident (with multiple injuries/fatalities, with or without fire)	4 hours

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An emergency sign trailer located at the maintenance facility will be available for emergency use and equipped to provide a full road closure for an extended period.

Incident Response Staff Training

GLP will perform incident response training through a combination of in-house and national programs. At a minimum, our staff will have the following nationally recognized National Incident Management System (NIMS) training:

<ul style="list-style-type: none">• IS-700: NIMS, An Introduction• ICS-100 (IS-100): Introduction to the Incident Command System	<ul style="list-style-type: none">• ICS-200 (IS-200): ICS for Single Resources and Initial Action Incidents
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GLP, in coordination with responding agencies, will review major incidents in a workshop atmosphere to ensure that ideas for betterment are cross communicated and incorporated into any future joint response. Then, GLP will develop and revise procedures periodically based on actual scenarios and lessons learned.

Repair of Incident Damage

Once an incident has been cleared, GLP will conduct a summary investigation and report of infrastructure damages; implement temporary repairs to any damaged infrastructure to ensure safety of the public; and schedule permanent repairs as appropriate to the damage and to ensure system performance.

Emergency Response

GLP will incorporate the Department’s procedures and training for emergencies including spills occurring on the system. Our staff will provide an initial response to emergencies in 30 minutes and include the four steps of the Standardized Emergency Management System for preparedness, response, recovery, and mitigation.

Preparedness

GLP’s operations manager will coordinate with the California Office of Emergency Services (OES) and other local responders with jurisdiction as applicable. These may include:

<ul style="list-style-type: none">• Air Pollution Control District• CHP• Federal EPA and CAL/EPA• Local emergency responders including fire and rescue• RWQCB	<ul style="list-style-type: none">• San Francisco County Agricultural Commissioner• San Francisco Department of Public Health• State Department of Fish and Game• U.S. Coast Guard
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We will design early coordination meetings to ensure integration of the GLP response with the surrounding interfacing systems. GLP will develop a manual documenting emergency

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management procedures and update the manual throughout the O&M Period with lessons learned, agency reorganizations, or the advent of new technologies.

The O&M team will take advantage of the training offered by the OES. In addition, we propose to partner with the Department to provide joint training building on the Department's current programs and experiences and identifying any special training that could be developed. At a minimum, training will include emergency management and technical training on hazardous materials.

Response

Once on-site, our responders will identify the nature of the emergency as soon as practical. In the event of a natural disaster or incident that requires OES to perform the function of an incident commander, our staff will perform support to the emergency. We expect this to include traffic control, delineating detours, securing traffic lanes that are unsafe, and restoring the availability of lanes to allow the safe progress of traffic.

We will secure emergencies involving spills and potential contaminated waste and conduct preliminary identification of the extent of contamination will be determined based on existing information. We will designate a primary responsible person to coordinate with the Incident Commander and other responding agencies. Our first and ongoing focus will be to provide traffic control of the incident area.

Recovery

For emergencies where OES serves as the incident commander, GLP will perform recovery actions as described by the procedures manual developed in conjunction with the responding agencies.

Recovery for incidents involving spills or hazardous waste will include removal of debris that can be safely handled by the crews and traffic control and detours for the areas of the roadway that contain substances which are hazardous or not fully identified. GLP will identify the responsible party and follow through with obtaining the police report. GLP will support the responsible parties' efforts to contain and remove any contamination resulting for the incident. Should a determination be made that an agency responder will take the lead in substance removal, we will support their efforts in a like manner. Should GLP take a lead role in removal of any contamination, we will coordinate with the appropriate jurisdictional agency describing removal plans. Removal will be through specialty contractors and transporters having the appropriate licenses or registrations such as a Hazardous Water Hauler's Registration.

Mitigation

GLP will coordinate mitigation measures for major disasters with the Department. Our team is familiar with the federal government requirements for emergency reimbursement and we will ensure adequate documentation for mitigation work performed.

We will coordinate mitigation tasks relating to incidents of hazardous spills and/or damage to environmental features with the appropriate lead agency and the responsible party to the extent that party has been identified. Mitigation efforts will be performed with respect to applicable permits including encroachment and transportation permits.

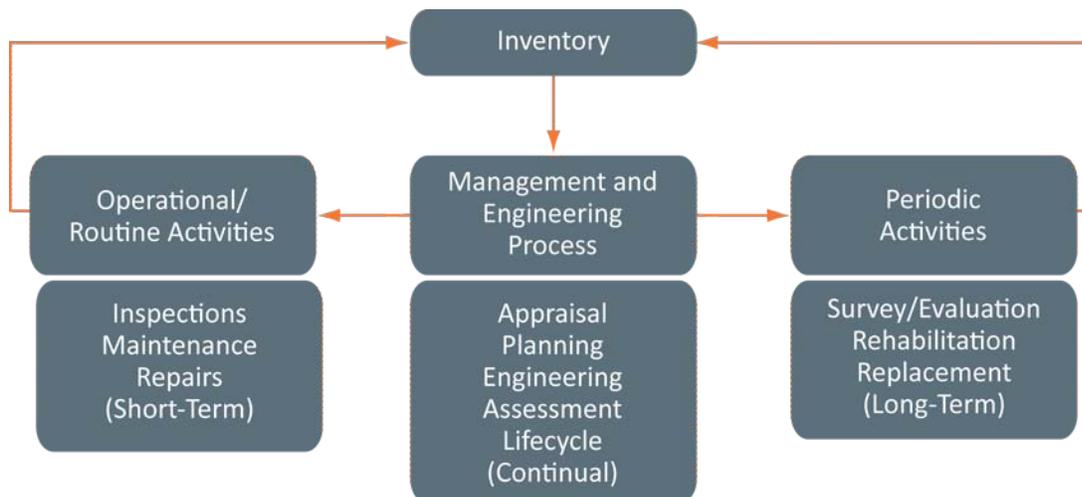
3.1.h Renewal

1 1.3.B.f From the commencement of the bidding process, GLP will analyze Project assets based on input from the lifecycle task force and the historical performance of similar items to determine their most likely consumption rate. From this analysis, we develop a rehabilitation schedule and program routine and preventive work to ensure that the renewal plan can be achieved.

During the Construction Period, GLP will closely QC work practices and materials that could impact lifecycle predictions to ensure that the lifecycle expectations will be achieved. The substantial completion and delivery of the assets as designed, and that meet the lifecycle expectations, will be validated through a series of inspections and quality programs, both internal and external. Operations will participate in the final inspections and punchlist development and will provide the view of the assets for the O&M Period.

Throughout the O&M Period, this plan is continually adjusted based on the actual behavior of the assets over time, condition assessments performed throughout the project period, and analysis of work performed on an individual asset. Over time, deterioration patterns will emerge and GLP will adjust the renewal work plan accordingly. These patterns will also provide indications of when early intervention may be necessary with the goal to achieve renewal in an effective and efficient manner.

Figure 16: Integrated Renewal Process



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This analysis allows the rehabilitation schedule to be updated each time there is additional or new information on the asset, including in the case of damage to the asset due to incidents or emergency. Following this process, the rehabilitation schedule will remain updated throughout the life of the O&M Period. At the end of the Term, we will provide a look-ahead rehabilitation strategy to the Department taking into consideration the performance handback expectations of the infrastructure.

The major rehabilitation projects anticipated in the O&M Period include the following:

<ul style="list-style-type: none">• Pavement surfaces (concrete and asphalt)• Bridges• Tunnels• Retaining walls	<ul style="list-style-type: none">• Sign structures• Major culverts and drainage control structures• Lighting
--	---

Pavement and Structures Renewal

In addition to ongoing O&M work and monitoring requirements, the Contractor is responsible for preparing a set of rehabilitation schedules for the work. The initial scheduling of activities will be based on a technical evaluation of the assets conducted during the O&M Period. As part of the asset management plan, the rehabilitation plan will be continuously developed as necessary to meet the Technical Requirements. This rehabilitation plan may supersede Figures 17 and 18 based on the ongoing technical evaluation.

Figure 17 indicates the expected rehabilitation schedule for the roadways. Figure 18 indicates a similar schedule of activities for the bridge and tunnel structures on the Project.

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Figure 17: Rehabilitation Schedule – Structures

STRUCTURES REHABILITATION SCHEDULE																														
Bridges	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Railing Repair					●					●					●					●					●					●
Painting of Structural Steel															●															●
Cleaning of Expansion Joints		●		●		●		●		●		●		●		●		●		●		●		●		●		●		●
Replacement of Plate Anchors																					●									
Replacement of Neoprene Sheet																					●									
Replacement of Joint Seal for Type B Expansion Joints											●														●					●
Replacement of Joint Seal for Type A Expansion Joints																		●												●
Replacement of Joint Filler for Non-Expansion Joints											●														●					●
Replacement of Bearings																														●
Repair Concrete Spalls																					●									
Cleaning and Repair of Deck Drains				●				●			●				●					●					●				●	●
Polyester Concrete Deck Overlay																					●									
Inspections	●		●	●	●		●		●		●		●	●	●		●		●		●		●	●	●		●		●	

Tunnels	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Repair Concrete Spalls					●					●					●					●					●					●
Leakage Repairs (Epoxy Injection)																														●
Chain Link Fence Replacement										●											●									●
Joint Repairs																					●									
Inspections					●					●					●					●						●				●

Retaining Walls	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Repair Concrete Spalls															●					●					●					●
Crack Repair Maintenance					●																									●
Anti-Graffiti Treatment										●											●									●
Railing Repair										●											●									●
Inspections					●					●											●									●



Figure 18: Rehabilitation Schedule – Roadways

ROADWAY REHABILITATION SCHEDULE																															
Mainline	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
Full-Depth CRCP Repairs (0.1% of total pavement area)										●					●						●					●					●
Re-Seal Longitudinal joints in CRCP															●																●
Diamond Grinding																															●

Asphalt Ramps/Roads	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
Crack Sealing										●																●					
Mill-and-Pave in Traffic Lanes															●																●

Technology Renewal

Technology renewal will be defined by equipment lifecycle parameters. Preventive maintenance will be a routine part of the operations plan. Spares will be available for technology maintenance needs to meet schedule requirements and allow for system reliability and availability. Technology refresh will occur in accordance with lifecycle parameters, expectations, and actual technology performance and when new technologies prove advantageous to the Project.

3.1.i Facilities

GLP intends to maintain a facility located on the Presidio Trust Lands. The maintenance facility will have office space to house our operations center, our anticipated staff, and an area for storage of system refresh items such as CCTV cameras and electronic equipment. Storage needs beyond a climate-controlled area will be necessary for items such as select signs, miscellaneous consumables, safety equipment, pavement patching material, pavement markers, and specialty tools. We anticipate a total inside area of 2,000 SQFT, storage capacity of 1,000 SQFT, and parking for up to six vehicles.

3.1.j Safety

1 **1.3.B.g** The O&M Safety Plan for the O&M Period of the Project will build on the construction safety plan with additional specific requirements incorporated to reflect the final assets and conditions of the system. O&M staff will be required to attend periodic training related to their specific work functions as well as general training for performing tasks on an active roadway. Subcontractors will be held to the same or equivalent



safety procedures relevant to the tasks they are performing. The main responsibility for safety will be with the individual staff and will be measured as part of their performance evaluations.

Safety training topics will include required safety equipment necessary for individual activities; a review of Material Safety Data Sheet sheets and how to analyze them; and general public safety. In addition, working on an active travel way requires constant reminders to technicians to be aware of their safety and protection and to take responsibility to ensure they are protected by available barriers or guardrails. These lessons will be repeated in tool box meetings and regular safety meetings.

O&M staff will be trained in standard first aid and the O&M project manager will ensure that this training is refreshed when necessary for each employee.

GLP's overall approach to safety on the Project will be to minimize worker exposure to active traffic for routine maintenance activities. To the extent possible, work will be performed at times of minimal traffic flows and with adequate traffic control in place. Work requiring multiple full lane closures or moving operations within the travel lanes will be supplemented with subcontractors and equipment to be sure that shadow vehicles, Traffic Management Act procedures, and advanced warning equipment are in place for major work.

In addition to the required safety training, GLP will hold safety reviews after incidents with all levels of staff and Contractors involved to assess actions and results. Lessons learned will be incorporated into existing procedures and then communicated to both operations and to subcontractors where applicable.

GLP's operations manager will additionally ensure that training is current for life safety issues including incidents that may occur in our operations facilities, the traffic operations facility, the tunnels, and other confined spaces.

Our day-to-day focus on safety will include development of a Safety Management Plan and compliance with safety design standards including a plan for continuous updates with safety design standards. Other safety practices include ongoing training, traffic safety training, safety improvement reviews, and life safety code training.

3.1k Handback Plan

1 1.3.B.h GLP has initiated a lifecycle approach in preparing the designs for the pavement, ancillary roadway items, and structures to balance initial cost of construction and a Project-specific regime of maintenance and rehabilitation to achieve the Technical Requirements and comply with the handback provisions.

As detailed in Volume 1, Section 1.1.a Design Management Concept, during the bidding process GLP will institute a lifecycle task force comprised of representatives from the Developer, DBJV

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and the O&M to determine the most efficient approach to fulfilling the technical requirements over the term of the concession.

As part of this lifecycle analysis, GLP developed a rehabilitation activity matrix addressing procedures for monitoring, measuring and predicting asset consumption during the O&M Period along with the appropriate strategies for maintenance and rehabilitation activities. This matrix will become the intervention baseline for the Developer's Asset Management Plan, implemented to ensure that the handback requirements will be met.

Upon selection as the Preferred Proposer, GLP will establish an Asset Management Group that will include the Developer and their lifecycle advisors to implement the Asset Management Plan throughout the Term.

From the outset of construction, the Asset Management Group will closely monitor QC of work items that could impact lifecycle predictions to ensure that the lifecycle expectations will be achieved. Delivering a quality project that meets the lifecycle expectations will be validated through a QC/QA program managed by the design-build team and quality verification inspections coupled with internal and external quality audits managed by the Developer.

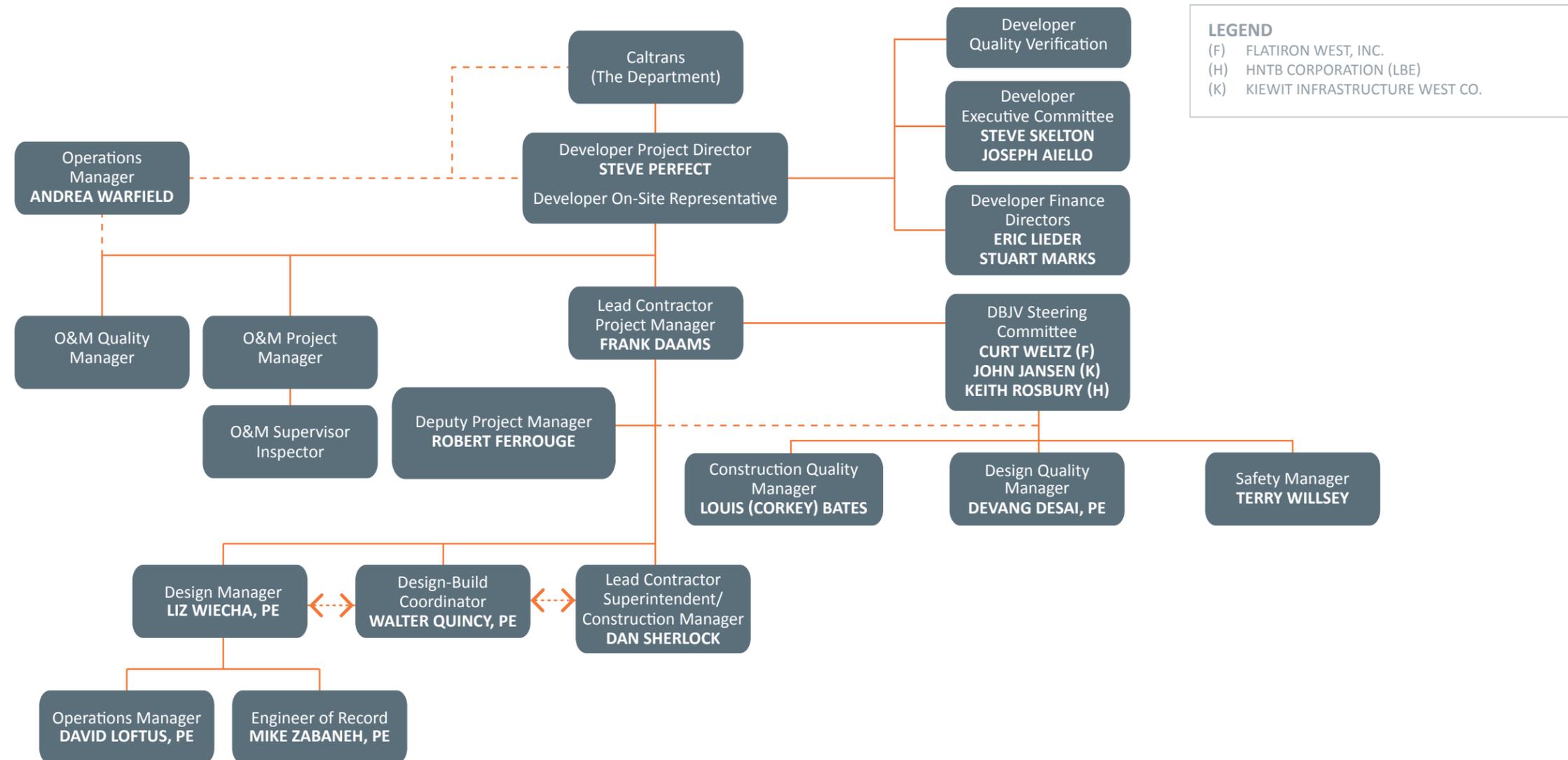
Throughout the O&M Period, using analyzed data collected from inspection and testing programs, GLP will forecast maintenance and rehabilitation and adjust the base case accordingly. Further, we will carefully record asset conditions, work required, and asset performance in the Maintenance Management System. We will routinely analyze this data routinely analyzed for trends, anticipated lifecycle deterioration curves against actual in place performance, and the relationship to the established rehabilitation schedule.

Ultimately, the schedule for short, medium, and long-term maintenance and rehabilitation will be based on these forecasts as well as annual inspection and testing results with an objective of fully satisfying, the handback requirements required under the Agreement.

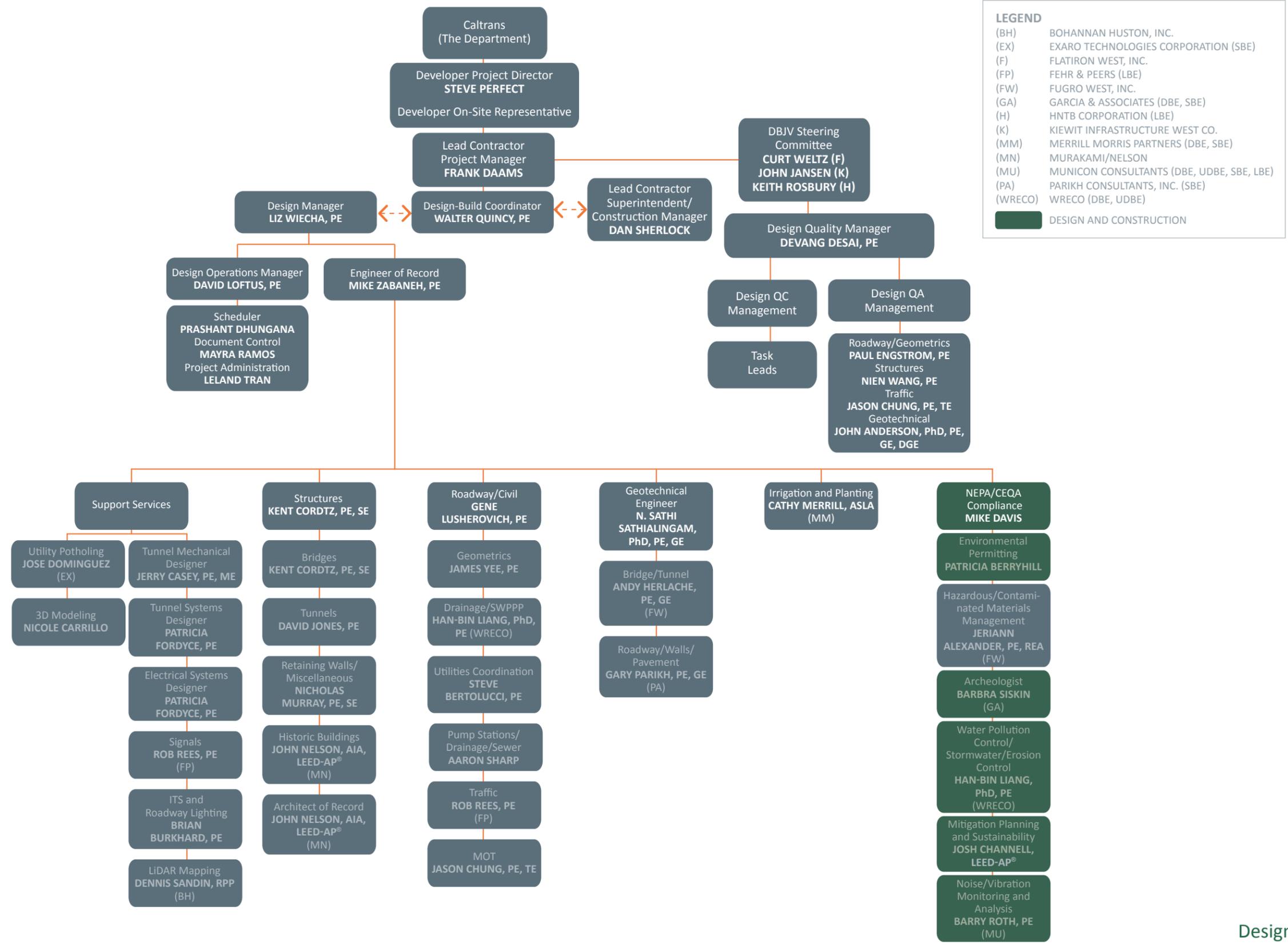
GLP will facilitate handback through our continuous discussion with the Department on the rehabilitation plans combined with renewal strategy presented in the last years of the O&M Period.

Appendix 1 Organizational Charts





LEGEND
 (F) FLATIRON WEST, INC.
 (H) HNTB CORPORATION (LBE)
 (K) KIEWIT INFRASTRUCTURE WEST CO.

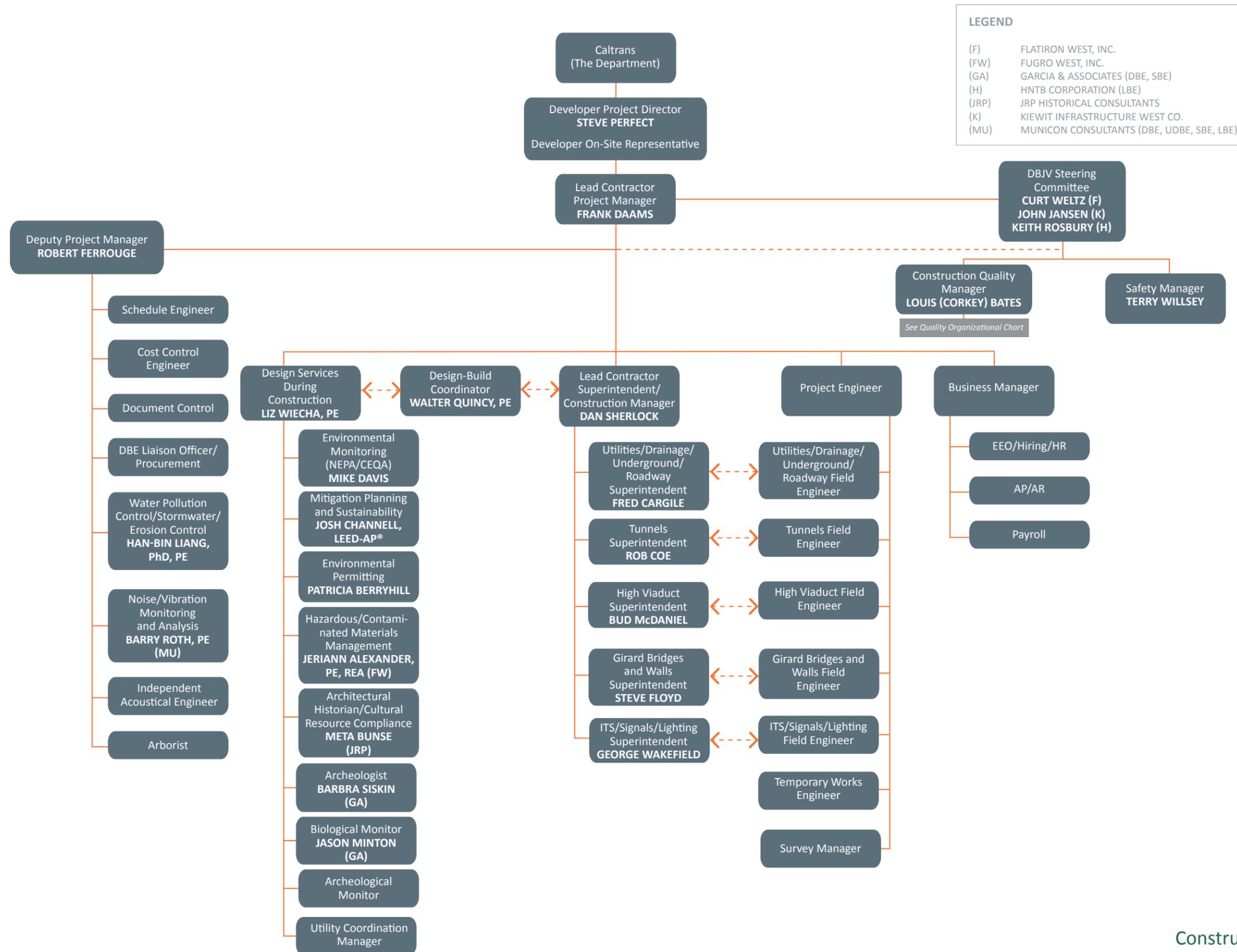


LEGEND

(BH)	BOHANNAN HUSTON, INC.
(EX)	EXARO TECHNOLOGIES CORPORATION (SBE)
(F)	FLATIRON WEST, INC.
(FP)	FEHR & PEERS (LBE)
(FW)	FUGRO WEST, INC.
(GA)	GARCIA & ASSOCIATES (DBE, SBE)
(H)	HNTB CORPORATION (LBE)
(K)	KIEWIT INFRASTRUCTURE WEST CO.
(MM)	MERRILL MORRIS PARTNERS (DBE, SBE)
(MN)	MURAKAMI/NELSON
(MU)	MUNICON CONSULTANTS (DBE, UDBE, SBE, LBE)
(PA)	PARIKH CONSULTANTS, INC. (SBE)
(WRECO)	WRECO (DBE, UDBE)

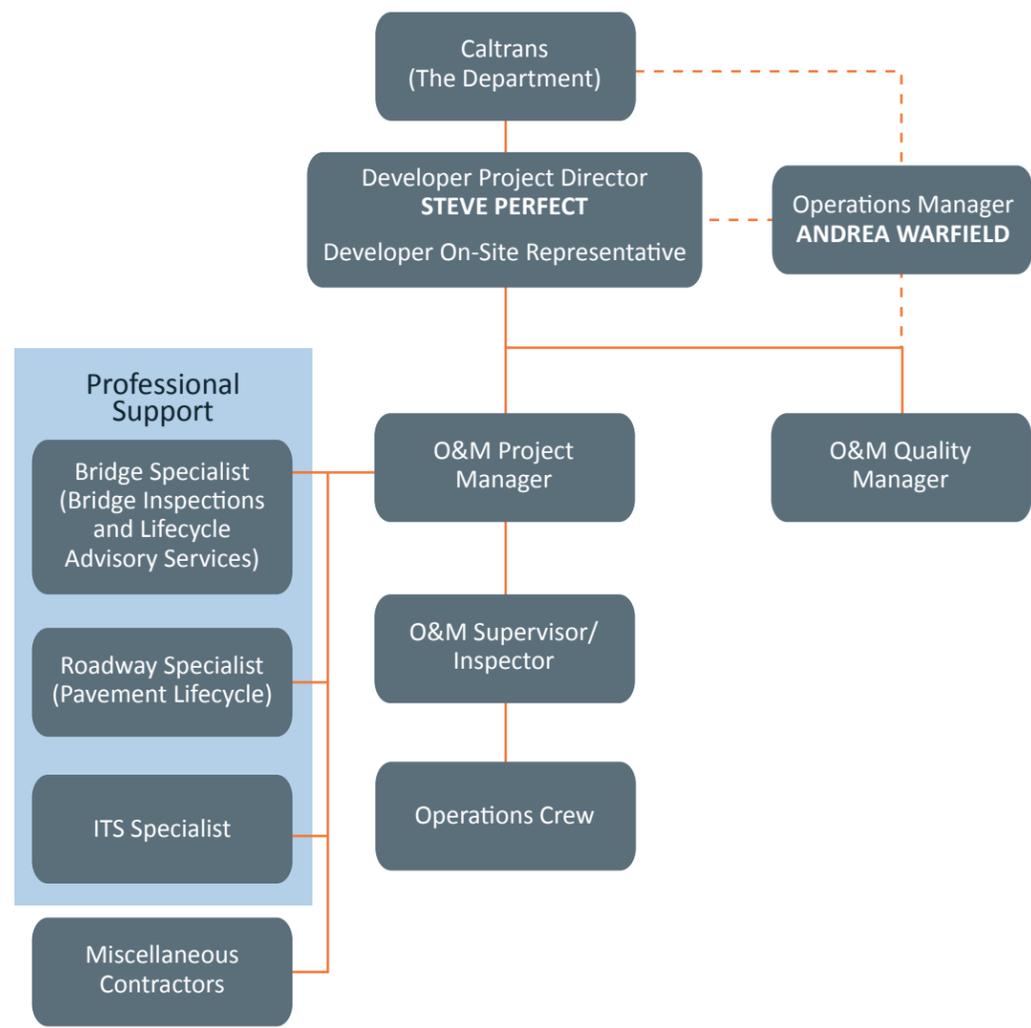
 DESIGN AND CONSTRUCTION

Design Organizational Chart

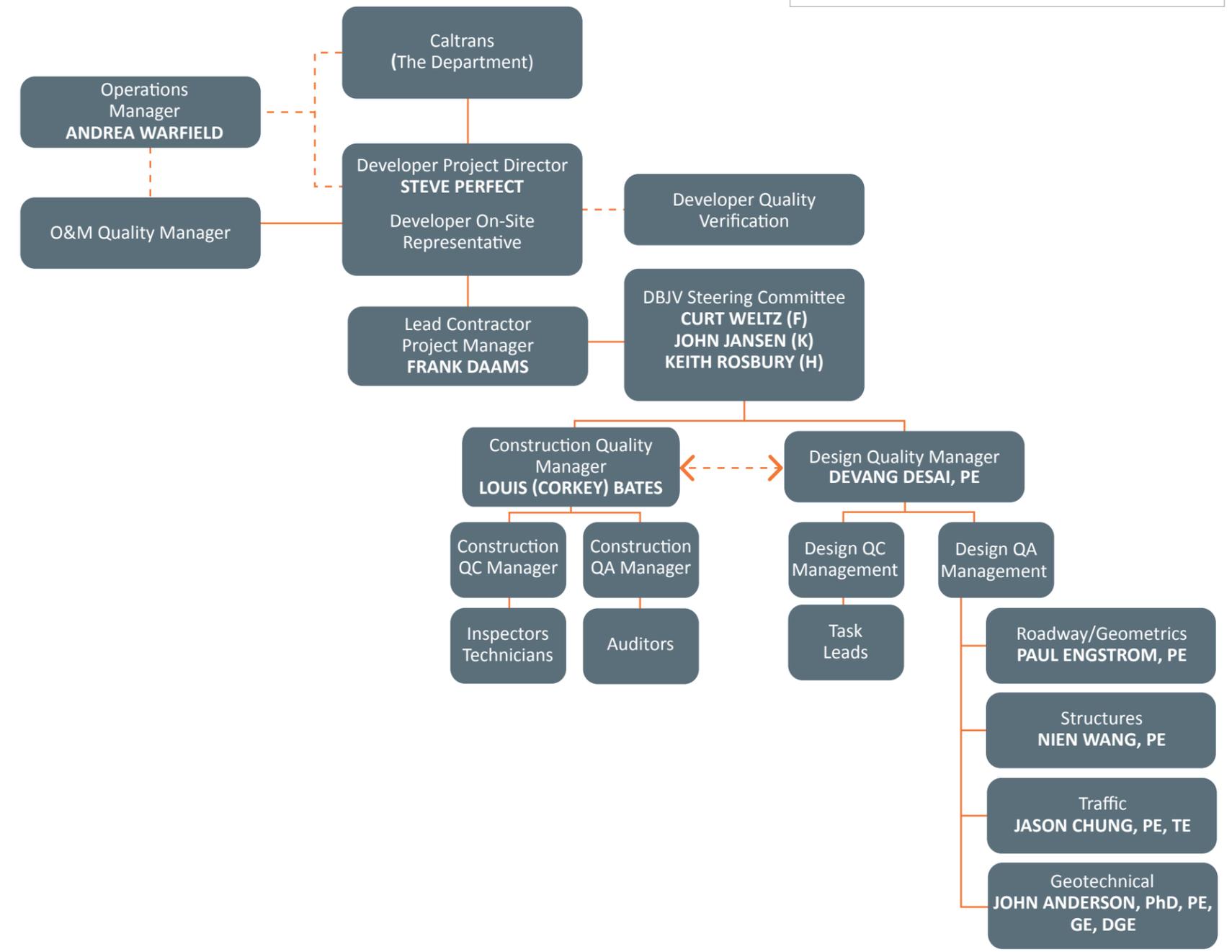


Construction Organizational Chart

LEGEND
 (F) FLATIRON WEST, INC.
 (H) HNTB CORPORATION (LBE)
 (K) KIEWIT INFRASTRUCTURE WEST CO.



O&M Organizational Chart



Quality Organizational Chart

3.2 SYSTEM INTEGRATION PLAN

3.2.a Intelligent Transportation System Integration **1** 1.3.C

Lead Engineering Firm HNTB has been providing comprehensive traffic management services and has been planning and designing innovative ITS using state-of-the-art technologies since the 1960's. HNTB has been following the growth of ITS which can help reduce greenhouse gas emissions by limiting congestion. Key personnel assigned to this task have more than 20 years of experience in this specialized discipline – notably on another Department design-build project, the I-405 Sepulveda Pass Widening project in District 7.

For the Presidio Parkway Project (Project), ITS elements are required to provide optimal management of the freeway and arterial facilities. As required in the RFP, essential elements will include ramp metering, traffic signals, vehicle detection, message signs, cameras, and other intelligent sensors. This equipment will be connected through wireless and fiber communication to the Department's existing traffic operations system as well to a remote monitoring/control system operated by GLP. The data delivered to all three operations centers will enhance the management of this segment of U.S. 101.

GLP's design adheres to the prescribed locations such as for detection locations, ramp metering, extinguishable message signs, dynamic message signs, and variable message signs. In response to the station and offset callouts for ITS equipment, we include minor adjustments to the placement of detection stations near the portals of the tunnels to improve maintenance access. Our design for other equipment addresses appropriate placement for CCTVs, cabinets, and controllers. We will place connectivity to the Department's existing fiber network at an appropriate location within the Project limits.

The proximity of the Project to the northbound Golden Gate Bridge toll facility will provide a vital network communication link to the Department's District 4 operations and will complement the facility's operations. Upstream variable message signs can be used to convey the operational status of the toll facility.

GLP's operations will interface with the Department's operations center through a local network router. The ITS devices will be assigned private addresses in a separate local area network. GLP understands that accurate and useful traveler information for the motoring public will be needed during construction. As demonstrated by our team members on the I-405 Sepulveda Pass and the Farrington Highway High-Capacity Transit Corridor design-build projects, ITS design for construction will be the first effort concurrent with the Traffic Management Plan.

GLP's methodology includes essential steps for advanced traffic management of ITS: detection, verification, and notification. Information on travel conditions begins with vehicle detection.

The detection information will go to the Department’s traffic operations system as well as GLP’s O&M center. We will verify traffic volume and counts by cameras on the system to ascertain travel conditions. Finally, message sets developed by the Department’s traffic operations system will be sent out to dynamic messages signs and websites showing congestion conditions.

Detection

As depicted in Figure 19, the deployment of vehicle detection equipment made by Sensys will provide GLP the ability to monitor travel speeds and congestion. Sensys vehicle detection devices can be installed in roadways for lane detection in less than 10 minutes—significant time savings over traditional invasive loop detection, which can take hours. The devices are wireless and battery operated requiring no wiring or lead in cables. Since the maintenance-of-traffic plan will require temporary lane closures or lane changes, the re-use of the Sensys detection device will allow quick adaptation to re-striping. This will mitigate the need for long duration MOT plans during installation. The re-use of these devices will continue all the way to permanent installation. Furthermore, these same devices can be used for actuation of traffic and ramp meter signals.

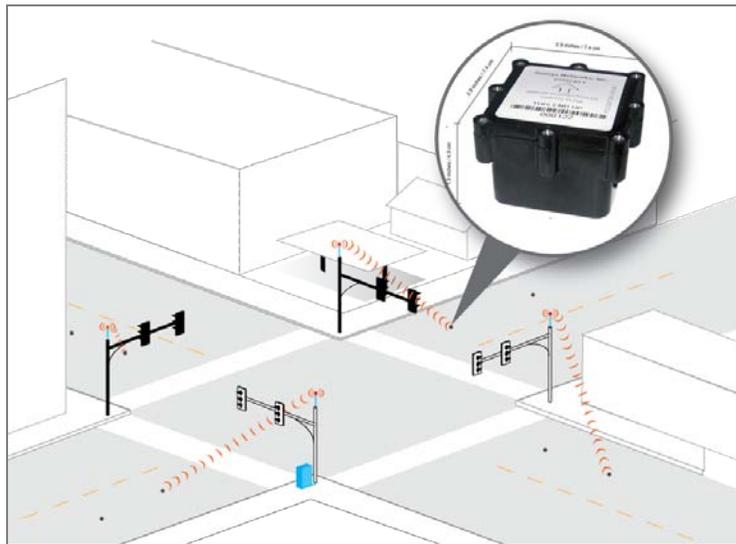


Figure 19: A Sensys Device Provides the Ability to Monitor Vehicle Travel Speeds and Congestion

The location of detection stations follows the locations as indicated in the RFP. However, GLP proposes relocating the stations currently inside the tunnel portals to just outside the tunnel portals, less than 140 ft. difference, to provide greater ease in maintenance without affecting the intended detection.

Verification

Verification of travel conditions will be necessary to monitor the effect of construction stages and traffic signal timing during construction. We will install temporary, and when possible, permanent cameras for this purpose. GLP will install cameras in high conflict areas to ensure proper responses if incidents occur.

GLP will provide traffic management operations during construction to monitor traffic data and camera images. This process provides viewing capabilities and full integration with the

Department's existing network. This operation will evolve to an ultimate traffic management system that will be maintained for the life of the Term.

We have strategically placed cameras in our design at the center of horizontal curves and at locations that provide good visibility inside tunnels.

Notification

During construction, we will notify the public through the use of remotely-placed portable dynamic message signs. Through a wireless network, the precise location of these signs will be known at anytime through GPS equipment installed in the sign. The signs will provide messages regarding travel times, incidents, alternate routes, and travel conditions. We will install ultimate permanent signs as early as possible for integration into the Department's traffic operations system.

Messages will also be developed in concurrence with the Department's existing traffic operations system for use on the highway advisory radio system, which will have been installed under the first phase of this Project. Sign locations are in accordance with RFP requirements.

Connection to Existing Network

GLP will install ITS accouterments such as cabinets, enclosures, pullboxes, fiber vaults, shelters, antennas, ramp metering installations, and poles only when their installation will not be harmed or altered by other construction activities. Once raceways are terminated, fiber and cabling will be blown or pulled in for connection to equipment. Further, we will test the fiber trunk and drop cables as well as at the interface to the Department's existing fiber network.

Prior to deployment GLP will bench test the CCTV, variable and changeable message signs, controllers and their supporting hardware. Once installed, we will field test the various ITS elements from GLP's operations. Once the newly constructed system has been proven operational, it will be tested from the Department's traffic management center and the Caldecott Tunnel.

The network protocol and software will be compatible with the Department's current system. As a result, data streams from the ITS devices should be readily accessible to all operations centers within the Department's network.

Prior to hardwire termination of equipment to the Department's traffic operations system, we will deploy a secure wireless network consisting of cellular and unlicensed point-to-multipoint radios to provide full temporary operation of ITS equipment as needed. This approach will allow for detection of incidents, verification of conditions, notification to the public, and response to events from the start of construction through to completion.



3.2.b Systems Operational Support

The system integration planned for the operations of this Project will allow monitoring of critical assets both at the GLP facility and the Department's traffic operations system. Operations will have the ability to monitor, track, and correct potential operability compliance as well as detect incidents on the system that are unusual or cause damage.

GLP will link tunnel operating systems to the ITS to provide for notification at the operations facility of failures of devices or systems approaching operability parameters below those required. While systems on the project will have routine preventive maintenance scheduled, the addition of the integrated system in the operations facility will aid in meeting the performance requirements of the Project and in the overall safety of the system.

All Checks Are OK
PRESIDIO PARKWAY PROJECT V3.32 (BID MODEL) BASE CASE
TIFIA & BOND SOLUTION

31 Mar 2011 30 Apr 2011 31 May 2011 30 Jun 2011 31 Jul 2011 31 Aug 2011 30 Sep 2011 31 Oct 2011 30 Nov 2011
 Pre-Closing Pre-Closing Pre-Closing Pre-Closing Pre-Closing Pre-Closing Construction Construction Construction

OUTOUTS - APPENDIX D-2 (2)

9. OPERATIONS DURING CONSTRUCTION

Cost item	Model Reference	Total	Mar 2011	Apr 2011	May 2011	Jun 2011	Jul 2011	Aug 2011	Sep 2011	Oct 2011	Nov 2011
O&M during construction – fixed cost operations	App d-2 (2) worksheet - Row 155										
Staffing	App d-2 (2) worksheet - Row 156	2,312	-	-	-	-	-	-	66	66	66
Policing	App d-2 (2) worksheet - Row 157	-	-	-	-	-	-	-	-	-	-
Security monitoring	App d-2 (2) worksheet - Row 158	1,531	-	-	-	-	-	-	44	44	44
Utilities	App d-2 (2) worksheet - Row 159	49	-	-	-	-	-	-	1	1	1
Company accounting and tax	App d-2 (2) worksheet - Row 160	-	-	-	-	-	-	-	-	-	-
Lender support costs (LTA fees, legal fees)	App d-2 (2) worksheet - Row 161	-	-	-	-	-	-	-	-	-	-
Agreement required construction insurance	App d-2 (2) worksheet - Row 162	182	-	-	-	-	-	-	5	5	5
Other insurance (please specify)	App d-2 (2) worksheet - Row 163	-	-	-	-	-	-	-	-	-	-
Permits	App d-2 (2) worksheet - Row 164	-	-	-	-	-	-	-	-	-	-
Inspection and reporting	App d-2 (2) worksheet - Row 165	40	-	-	-	-	-	-	1	1	1
Maintenance patrols	App d-2 (2) worksheet - Row 166	-	-	-	-	-	-	-	-	-	-
Other direct costs	App d-2 (2) worksheet - Row 167	829	-	-	-	-	-	-	24	24	24
TOTAL	App d-2 (2) worksheet - Row 168	4,944	-	-	-	-	-	-	141	141	141
O&M during construction – variable cost operations	App d-2 (2) worksheet - Row 169										
Staffing	App d-2 (2) worksheet - Row 170	135	-	-	-	-	-	-	4	4	4
Moveable barrier	App d-2 (2) worksheet - Row 171	2,381	-	-	-	-	-	-	68	68	68
Other direct costs	App d-2 (2) worksheet - Row 172	354	-	-	-	-	-	-	10	10	10
Vehicle/equipment leasing	App d-2 (2) worksheet - Row 173	195	-	-	-	-	-	-	6	6	6
TOTAL	App d-2 (2) worksheet - Row 174	3,065	-	-	-	-	-	-	87	87	87

All Checks Are OK
PRESIDIO PARKWAY PROJECT V3.32 (BID MODEL) BASE CASE
TIFIA & BOND SOLUTION

31 Dec 2011 31 Jan 2012 29 Feb 2012 31 Mar 2012 30 Apr 2012 31 May 2012 30 Jun 2012 31 Jul 2012 31 Aug 2012
 Construction Construction Construction Construction Construction Construction Construction Construction Construction

OUTOUTS - APPENDIX D-2 (2)

9. OPERATIONS DURING CONSTRUCTION

Cost item	Model Reference	Total	Dec 2011	Jan 2012	Feb 2012	Mar 2012	Apr 2012	May 2012	Jun 2012	Jul 2012	Aug 2012
O&M during construction – fixed cost operations	App d-2 (2) worksheet - Row 155										
Staffing	App d-2 (2) worksheet - Row 156	2,312	66	66	66	66	66	66	66	67	67
Policing	App d-2 (2) worksheet - Row 157	-	-	-	-	-	-	-	-	-	-
Security monitoring	App d-2 (2) worksheet - Row 158	1,531	44	44	44	44	44	44	44	45	45
Utilities	App d-2 (2) worksheet - Row 159	49	1	1	1	1	1	1	1	1	1
Company accounting and tax	App d-2 (2) worksheet - Row 160	-	-	-	-	-	-	-	-	-	-
Lender support costs (LTA fees, legal fees)	App d-2 (2) worksheet - Row 161	-	-	-	-	-	-	-	-	-	-
Agreement required construction insurance	App d-2 (2) worksheet - Row 162	182	5	5	5	5	5	5	5	5	5
Other insurance (please specify)	App d-2 (2) worksheet - Row 163	-	-	-	-	-	-	-	-	-	-
Permits	App d-2 (2) worksheet - Row 164	-	-	-	-	-	-	-	-	-	-
Inspection and reporting	App d-2 (2) worksheet - Row 165	40	1	1	1	1	1	1	1	1	1
Maintenance patrols	App d-2 (2) worksheet - Row 166	-	-	-	-	-	-	-	-	-	-
Other direct costs	App d-2 (2) worksheet - Row 167	829	24	24	24	24	24	24	24	24	24
TOTAL	App d-2 (2) worksheet - Row 168	4,944	141	144	144						
O&M during construction – variable cost operations	App d-2 (2) worksheet - Row 169										
Staffing	App d-2 (2) worksheet - Row 170	135	4	4	4	4	4	4	4	4	4
Moveable barrier	App d-2 (2) worksheet - Row 171	2,381	68	68	68	68	68	68	68	69	69
Other direct costs	App d-2 (2) worksheet - Row 172	354	10	10	10	10	10	10	10	10	10
Vehicle/equipment leasing	App d-2 (2) worksheet - Row 173	195	6	6	6	6	6	6	6	6	6
TOTAL	App d-2 (2) worksheet - Row 174	3,065	87	89	89						

All Checks Are OK
 PRESIDIO PARKWAY PROJECT V3.32 (BID MODEL) BASE CASE
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28 Feb 2014 31 Mar 2014 30 Apr 2014 31 May 2014 30 Jun 2014 31 Jul 2014 31 Aug 2014 30 Sep 2014 31 Oct 2014
 Construction Construction Construction Construction Construction Construction Construction Construction Construction

OUTOUTS - APPENDIX D-2 (2)

9. OPERATIONS DURING CONSTRUCTION

Cost item	Model Reference	Total	Feb 2014	Mar 2014	Apr 2014	May 2014	Jun 2014	Jul 2014	Aug 2014	Sep 2014	Oct 2014
O&M during construction – fixed cost operations	App d-2 (2) worksheet - Row 155										
Staffing	App d-2 (2) worksheet - Row 156	2,312	62	54	54	54	54	55	55	55	58
Policing	App d-2 (2) worksheet - Row 157	-	-	-	-	-	-	-	-	-	-
Security monitoring	App d-2 (2) worksheet - Row 158	1,531	41	36	36	36	36	36	36	36	38
Utilities	App d-2 (2) worksheet - Row 159	49	1	1	1	1	1	1	1	1	1
Company accounting and tax	App d-2 (2) worksheet - Row 160	-	-	-	-	-	-	-	-	-	-
Lender support costs (LTA fees, legal fees)	App d-2 (2) worksheet - Row 161	-	-	-	-	-	-	-	-	-	-
Agreement required construction insurance	App d-2 (2) worksheet - Row 162	182	5	4	4	4	4	4	4	4	5
Other insurance (please specify)	App d-2 (2) worksheet - Row 163	-	-	-	-	-	-	-	-	-	-
Permits	App d-2 (2) worksheet - Row 164	-	-	-	-	-	-	-	-	-	-
Inspection and reporting	App d-2 (2) worksheet - Row 165	40	1	1	1	1	1	1	1	1	1
Maintenance patrols	App d-2 (2) worksheet - Row 166	-	-	-	-	-	-	-	-	-	-
Other direct costs	App d-2 (2) worksheet - Row 167	829	22	19	19	19	19	20	20	20	21
TOTAL	App d-2 (2) worksheet - Row 168	4,944	134	115	115	115	115	118	118	118	124
O&M during construction – variable cost operations	App d-2 (2) worksheet - Row 169										
Staffing	App d-2 (2) worksheet - Row 170	135	4	3	3	3	3	3	3	3	3
Moveable barrier	App d-2 (2) worksheet - Row 171	2,381	64	55	55	55	55	57	57	57	60
Other direct costs	App d-2 (2) worksheet - Row 172	354	10	8	8	8	8	8	8	8	9
Vehicle/equipment leasing	App d-2 (2) worksheet - Row 173	195	5	5	5	5	5	5	5	5	5
TOTAL	App d-2 (2) worksheet - Row 174	3,065	83	71	71	71	71	73	73	73	77

All Checks Are OK
 PRESIDIO PARKWAY PROJECT V3.32 (BID MODEL) BASE CASE
 TIFIA & BOND SOLUTION

30 Nov 2014 31 Dec 2014 31 Jan 2015 28 Feb 2015 31 Mar 2015 30 Apr 2015 31 May 2015 30 Jun 2015
 Construction Construction Sub. Completion Sub. Completion Sub. Completion Sub. Completion Operation Operation

OUTOUTS - APPENDIX D-2 (2)

9. OPERATIONS DURING CONSTRUCTION

Cost item	Model Reference	Total	Nov 2014	Dec 2014	Jan 2015	Feb 2015	Mar 2015	Apr 2015	May 2015	Jun 2015
O&M during construction – fixed cost operations	App d-2 (2) worksheet - Row 155									
Staffing	App d-2 (2) worksheet - Row 156	2,312	58	58	-	-	-	-	-	-
Policing	App d-2 (2) worksheet - Row 157	-	-	-	-	-	-	-	-	-
Security monitoring	App d-2 (2) worksheet - Row 158	1,531	38	38	-	-	-	-	-	-
Utilities	App d-2 (2) worksheet - Row 159	49	1	1	-	-	-	-	-	-
Company accounting and tax	App d-2 (2) worksheet - Row 160	-	-	-	-	-	-	-	-	-
Lender support costs (LTA fees, legal fees)	App d-2 (2) worksheet - Row 161	-	-	-	-	-	-	-	-	-
Agreement required construction insurance	App d-2 (2) worksheet - Row 162	182	5	5	-	-	-	-	-	-
Other insurance (please specify)	App d-2 (2) worksheet - Row 163	-	-	-	-	-	-	-	-	-
Permits	App d-2 (2) worksheet - Row 164	-	-	-	-	-	-	-	-	-
Inspection and reporting	App d-2 (2) worksheet - Row 165	40	1	1	-	-	-	-	-	-
Maintenance patrols	App d-2 (2) worksheet - Row 166	-	-	-	-	-	-	-	-	-
Other direct costs	App d-2 (2) worksheet - Row 167	829	21	21	-	-	-	-	-	-
TOTAL	App d-2 (2) worksheet - Row 168	4,944	124	124	-	-	-	-	-	-
O&M during construction – variable cost operations	App d-2 (2) worksheet - Row 169									
Staffing	App d-2 (2) worksheet - Row 170	135	3	3	-	-	-	-	-	-
Moveable barrier	App d-2 (2) worksheet - Row 171	2,381	60	60	-	-	-	-	-	-
Other direct costs	App d-2 (2) worksheet - Row 172	354	9	9	-	-	-	-	-	-
Vehicle/equipment leasing	App d-2 (2) worksheet - Row 173	195	5	5	-	-	-	-	-	-
TOTAL	App d-2 (2) worksheet - Row 174	3,065	77	77	-	-	-	-	-	-

All Checks Are OK
PRESIDIO PARKWAY PROJECT V3.32 (BID MODEL) BASE CASE
TIFIA & BOND SOLUTION

31 Mar 2011 30 Apr 2011 31 May 2011 30 Jun 2011 31 Jul 2011 31 Aug 2011 30 Sep 2011 31 Oct 2011 30 Nov 2011
 Pre-Closing Pre-Closing Pre-Closing Pre-Closing Pre-Closing Pre-Closing Construction Construction Construction

OUTOUTS - APPENDIX D-2 (2)

10. MAINTENANCE DURING CONSTRUCTION

Cost item	Model Reference	Total	Mar 2011	Apr 2011	May 2011	Jun 2011	Jul 2011	Aug 2011	Sep 2011	Oct 2011	Nov 2011
Variable Costs	App d-2 (2) worksheet - Row 180										
Flexible Pavement	App d-2 (2) worksheet - Row 181	7	-	-	-	-	-	0	0	0	0
Rigid Pavement	App d-2 (2) worksheet - Row 182	13	-	-	-	-	-	0	0	0	0
Slopes, Drainage and Vegetation	App d-2 (2) worksheet - Row 183	-	-	-	-	-	-	-	-	-	-
Vegetation control	App d-2 (2) worksheet - Row 184	-	-	-	-	-	-	-	-	-	-
Fencing	App d-2 (2) worksheet - Row 185	-	-	-	-	-	-	-	-	-	-
Retaining walls	App d-2 (2) worksheet - Row 186	2	-	-	-	-	-	0	0	0	0
Litter and Debris	App d-2 (2) worksheet - Row 187	-	-	-	-	-	-	-	-	-	-
Debris removal	App d-2 (2) worksheet - Row 188	12	-	-	-	-	-	0	0	0	0
Litter removal	App d-2 (2) worksheet - Row 189	20	-	-	-	-	-	1	1	1	1
Graffiti removal	App d-2 (2) worksheet - Row 190	10	-	-	-	-	-	0	0	0	0
Contaminated Materials/Fuel Spills	App d-2 (2) worksheet - Row 191	18	-	-	-	-	-	0	0	0	0
Landscaping	App d-2 (2) worksheet - Row 192	-	-	-	-	-	-	-	-	-	-
Drains and drainage	App d-2 (2) worksheet - Row 193	6	-	-	-	-	-	0	0	0	0
Erosion Control	App d-2 (2) worksheet - Row 194	-	-	-	-	-	-	-	-	-	-
Structures	App d-2 (2) worksheet - Row 195	-	-	-	-	-	-	-	-	-	-
Major Damage	App d-2 (2) worksheet - Row 196	-	-	-	-	-	-	-	-	-	-
Minor Damage	App d-2 (2) worksheet - Row 197	8	-	-	-	-	-	0	0	0	0
Bridge Deck	App d-2 (2) worksheet - Row 198	-	-	-	-	-	-	-	-	-	-
ITS and Communications	App d-2 (2) worksheet - Row 199	-	-	-	-	-	-	-	-	-	-
ITS Systems Operability	App d-2 (2) worksheet - Row 200	270	-	-	-	-	-	8	8	8	8
ITS Maintenance	App d-2 (2) worksheet - Row 201	-	-	-	-	-	-	-	-	-	-
Existing Communications Links	App d-2 (2) worksheet - Row 202	-	-	-	-	-	-	-	-	-	-
Electrical	App d-2 (2) worksheet - Row 203	-	-	-	-	-	-	-	-	-	-
Highway Lighting	App d-2 (2) worksheet - Row 204	-	-	-	-	-	-	-	-	-	-
Sign Lighting	App d-2 (2) worksheet - Row 205	-	-	-	-	-	-	-	-	-	-
Traffic Signals	App d-2 (2) worksheet - Row 206	-	-	-	-	-	-	-	-	-	-
Traffic Guidance	App d-2 (2) worksheet - Row 207	-	-	-	-	-	-	-	-	-	-
Pavement Markings/Delineators	App d-2 (2) worksheet - Row 208	52	-	-	-	-	-	1	1	1	1
Signage	App d-2 (2) worksheet - Row 209	2	-	-	-	-	-	0	0	0	0
Guardrail	App d-2 (2) worksheet - Row 210	4	-	-	-	-	-	0	0	0	0
Barrier Wall	App d-2 (2) worksheet - Row 211	8	-	-	-	-	-	0	0	0	0
Attenuators	App d-2 (2) worksheet - Row 212	-	-	-	-	-	-	-	-	-	-
Moveable Barriers	App d-2 (2) worksheet - Row 213	-	-	-	-	-	-	-	-	-	-
Storm Maintenance/Major Damage	App d-2 (2) worksheet - Row 214	-	-	-	-	-	-	-	-	-	-
Incident Response	App d-2 (2) worksheet - Row 215	55	-	-	-	-	-	2	2	2	2
TOTAL	App d-2 (2) worksheet - Row 216	486	-	-	-	-	-	14	14	14	14
		8,495	-	-	-	-	-	242	242	242	242

All Checks Are OK
PRESIDIO PARKWAY PROJECT V3.32 (BID MODEL) BASE CASE
TIFIA & BOND SOLUTION

28 Feb 2014 31 Mar 2014 30 Apr 2014 31 May 2014 30 Jun 2014 31 Jul 2014 31 Aug 2014 30 Sep 2014 31 Oct 2014
 Construction Construction Construction Construction Construction Construction Construction Construction Construction

OUTOUTS - APPENDIX D-2 (2)

10. MAINTENANCE DURING CONSTRUCTION

Cost item	Model Reference	Total	Feb 2014	Mar 2014	Apr 2014	May 2014	Jun 2014	Jul 2014	Aug 2014	Sep 2014	Oct 2014
Variable Costs	App d-2 (2) worksheet - Row 180										
Flexible Pavement	App d-2 (2) worksheet - Row 181	7	0	0	0	0	0	0	0	0	0
Rigid Pavement	App d-2 (2) worksheet - Row 182	13	0	0	0	0	0	0	0	0	0
Slopes, Drainage and Vegetation	App d-2 (2) worksheet - Row 183	-	-	-	-	-	-	-	-	-	-
Vegetation control	App d-2 (2) worksheet - Row 184	-	-	-	-	-	-	-	-	-	-
Fencing	App d-2 (2) worksheet - Row 185	-	-	-	-	-	-	-	-	-	-
Retaining walls	App d-2 (2) worksheet - Row 186	2	0	0	0	0	0	0	0	0	0
Litter and Debris	App d-2 (2) worksheet - Row 187	-	-	-	-	-	-	-	-	-	-
Debris removal	App d-2 (2) worksheet - Row 188	12	0	0	0	0	0	0	0	0	0
Litter removal	App d-2 (2) worksheet - Row 189	20	1	0	0	0	0	0	0	0	1
Graffiti removal	App d-2 (2) worksheet - Row 190	10	0	0	0	0	0	0	0	0	0
Contaminated Materials/Fuel Spills	App d-2 (2) worksheet - Row 191	18	0	0	0	0	0	0	0	0	0
Landscaping	App d-2 (2) worksheet - Row 192	-	-	-	-	-	-	-	-	-	-
Drains and drainage	App d-2 (2) worksheet - Row 193	6	0	0	0	0	0	0	0	0	0
Erosion Control	App d-2 (2) worksheet - Row 194	-	-	-	-	-	-	-	-	-	-
Structures	App d-2 (2) worksheet - Row 195	-	-	-	-	-	-	-	-	-	-
Major Damage	App d-2 (2) worksheet - Row 196	-	-	-	-	-	-	-	-	-	-
Minor Damage	App d-2 (2) worksheet - Row 197	8	0	0	0	0	0	0	0	0	0
Bridge Deck	App d-2 (2) worksheet - Row 198	-	-	-	-	-	-	-	-	-	-
ITS and Communications	App d-2 (2) worksheet - Row 199	-	-	-	-	-	-	-	-	-	-
ITS Systems Operability	App d-2 (2) worksheet - Row 200	270	7	6	6	6	6	6	6	6	7
ITS Maintenance	App d-2 (2) worksheet - Row 201	-	-	-	-	-	-	-	-	-	-
Existing Communications Links	App d-2 (2) worksheet - Row 202	-	-	-	-	-	-	-	-	-	-
Electrical	App d-2 (2) worksheet - Row 203	-	-	-	-	-	-	-	-	-	-
Highway Lighting	App d-2 (2) worksheet - Row 204	-	-	-	-	-	-	-	-	-	-
Sign Lighting	App d-2 (2) worksheet - Row 205	-	-	-	-	-	-	-	-	-	-
Traffic Signals	App d-2 (2) worksheet - Row 206	-	-	-	-	-	-	-	-	-	-
Traffic Guidance	App d-2 (2) worksheet - Row 207	-	-	-	-	-	-	-	-	-	-
Pavement Markings/Delineators	App d-2 (2) worksheet - Row 208	52	1	1	1	1	1	1	1	1	1
Signage	App d-2 (2) worksheet - Row 209	2	0	0	0	0	0	0	0	0	0
Guardrail	App d-2 (2) worksheet - Row 210	4	0	0	0	0	0	0	0	0	0
Barrier Wall	App d-2 (2) worksheet - Row 211	8	0	0	0	0	0	0	0	0	0
Attenuators	App d-2 (2) worksheet - Row 212	-	-	-	-	-	-	-	-	-	-
Moveable Barriers	App d-2 (2) worksheet - Row 213	-	-	-	-	-	-	-	-	-	-
Storm Maintenance/Major Damage	App d-2 (2) worksheet - Row 214	-	-	-	-	-	-	-	-	-	-
Incident Response	App d-2 (2) worksheet - Row 215	55	1	1	1	1	1	1	1	1	1
TOTAL	App d-2 (2) worksheet - Row 216	486	13	11	11	11	11	12	12	12	12
		8,495	230	198	198	198	198	202	202	202	213

All Checks Are OK
PRESIDIO PARKWAY PROJECT V3.32 (BID MODEL) BASE CASE
TIFIA & BOND SOLUTION

30 Nov 2014 31 Dec 2014 31 Jan 2015 28 Feb 2015 31 Mar 2015 30 Apr 2015 31 May 2015 30 Jun 2015
 Construction Construction Sub. Completion Sub. Completion Sub. Completion Sub. Completion Operation Operation

OUTOUTS - APPENDIX D-2 (2)

10. MAINTENANCE DURING CONTRUCTION

Cost item	Model Reference	Total	Nov 2014	Dec 2014	Jan 2015	Feb 2015	Mar 2015	Apr 2015	May 2015	Jun 2015
Variable Costs	App d-2 (2) worksheet - Row 180									
Flexible Pavement	App d-2 (2) worksheet - Row 181	7	0	0	-	-	-	-	-	-
Rigid Pavement	App d-2 (2) worksheet - Row 182	13	0	0	-	-	-	-	-	-
Slopes, Drainage and Vegetation	App d-2 (2) worksheet - Row 183	-	-	-	-	-	-	-	-	-
Vegetation control	App d-2 (2) worksheet - Row 184	-	-	-	-	-	-	-	-	-
Fencing	App d-2 (2) worksheet - Row 185	-	-	-	-	-	-	-	-	-
Retaining walls	App d-2 (2) worksheet - Row 186	2	0	0	-	-	-	-	-	-
Litter and Debris	App d-2 (2) worksheet - Row 187	-	-	-	-	-	-	-	-	-
Debris removal	App d-2 (2) worksheet - Row 188	12	0	0	-	-	-	-	-	-
Litter removal	App d-2 (2) worksheet - Row 189	20	1	1	-	-	-	-	-	-
Graffiti removal	App d-2 (2) worksheet - Row 190	10	0	0	-	-	-	-	-	-
Contaminated Materials/Fuel Spills	App d-2 (2) worksheet - Row 191	18	0	0	-	-	-	-	-	-
Landscaping	App d-2 (2) worksheet - Row 192	-	-	-	-	-	-	-	-	-
Drains and drainage	App d-2 (2) worksheet - Row 193	6	0	0	-	-	-	-	-	-
Erosion Control	App d-2 (2) worksheet - Row 194	-	-	-	-	-	-	-	-	-
Structures	App d-2 (2) worksheet - Row 195	-	-	-	-	-	-	-	-	-
Major Damage	App d-2 (2) worksheet - Row 196	-	-	-	-	-	-	-	-	-
Minor Damage	App d-2 (2) worksheet - Row 197	8	0	0	-	-	-	-	-	-
Bridge Deck	App d-2 (2) worksheet - Row 198	-	-	-	-	-	-	-	-	-
ITS and Communications	App d-2 (2) worksheet - Row 199	-	-	-	-	-	-	-	-	-
ITS Systems Operability	App d-2 (2) worksheet - Row 200	270	7	7	-	-	-	-	-	-
ITS Maintenance	App d-2 (2) worksheet - Row 201	-	-	-	-	-	-	-	-	-
Existing Communications Links	App d-2 (2) worksheet - Row 202	-	-	-	-	-	-	-	-	-
Electrical	App d-2 (2) worksheet - Row 203	-	-	-	-	-	-	-	-	-
Highway Lighting	App d-2 (2) worksheet - Row 204	-	-	-	-	-	-	-	-	-
Sign Lighting	App d-2 (2) worksheet - Row 205	-	-	-	-	-	-	-	-	-
Traffic Signals	App d-2 (2) worksheet - Row 206	-	-	-	-	-	-	-	-	-
Traffic Guidance	App d-2 (2) worksheet - Row 207	-	-	-	-	-	-	-	-	-
Pavement Markings/Delineators	App d-2 (2) worksheet - Row 208	52	1	1	-	-	-	-	-	-
Signage	App d-2 (2) worksheet - Row 209	2	0	0	-	-	-	-	-	-
Guardrail	App d-2 (2) worksheet - Row 210	4	0	0	-	-	-	-	-	-
Barrier Wall	App d-2 (2) worksheet - Row 211	8	0	0	-	-	-	-	-	-
Attenuators	App d-2 (2) worksheet - Row 212	-	-	-	-	-	-	-	-	-
Moveable Barriers	App d-2 (2) worksheet - Row 213	-	-	-	-	-	-	-	-	-
Storm Maintenance/Major Damage	App d-2 (2) worksheet - Row 214	-	-	-	-	-	-	-	-	-
Incident Response	App d-2 (2) worksheet - Row 215	55	1	1	-	-	-	-	-	-
TOTAL	App d-2 (2) worksheet - Row 216	486	12	12	-	-	-	-	-	-
		8,495	213	213	-	-	-	-	-	-

OUTOUTS - APPENDIX D-2 (3)

11. OPERATING COSTS

Cost Item	Model Reference	Total							
Fixed Costs	App d-2 (3) worksheet - Row 111								
Staffing	App d-2 (3) worksheet - Row 112	43,752							
Policing	App d-2 (3) worksheet - Row 113	-							
Security monitoring	App d-2 (3) worksheet - Row 114	18,459							
Utilities	App d-2 (3) worksheet - Row 115	601							
Company accounting and tax	App d-2 (3) worksheet - Row 116	-							
Lender support costs (LTA fees, legal fees)	App d-2 (3) worksheet - Row 117	-							
Agreement required construction insurance	App d-2 (3) worksheet - Row 118	2,254							
Other insurance (please specify)	App d-2 (3) worksheet - Row 119	-							
Permits	App d-2 (3) worksheet - Row 120	-							
Inspection and reporting	App d-2 (3) worksheet - Row 121	1,628							
Maintenance patrols* (included in Staffing Costs)	App d-2 (3) worksheet - Row 122	-							
Reporting	App d-2 (3) worksheet - Row 123	751							
Integrated Maintenance Management System	App d-2 (3) worksheet - Row 124	801							
Maintenance Patrols	App d-2 (3) worksheet - Row 125	-							
Other direct costs	App d-2 (3) worksheet - Row 126	20,349							
TOTAL	App d-2 (3) worksheet - Row 127	88,595							

All Checks Are OK
PRESIDIO PARKWAY PROJECT V3.32 (BID MODEL) BASE CASE TIFIA & BOND SOLUTION

31 Mar 2014 30 Jun 2014 30 Sep 2014 31 Dec 2014 31 Mar 2015 30 Jun 2015 30 Sep 2015 31 Dec 2015
 Construction Construction Construction Construction Sub. Completion Sub. Completion Operation Operation

OUTOUTS - APPENDIX D-2 (3)

11. OPERATING COSTS

Cost Item	Model Reference	Total	Mar 2014	Jun 2014	Sep 2014	Dec 2014	Mar 2015	Jun 2015	Sep 2015	Dec 2015
Fixed Costs	App d-2 (3) worksheet - Row 111									
Staffing	App d-2 (3) worksheet - Row 112	43,752	-	-	-	-	259	259	265	265
Policing	App d-2 (3) worksheet - Row 113	-	-	-	-	-	-	-	-	-
Security monitoring	App d-2 (3) worksheet - Row 114	18,459	-	-	-	-	109	109	112	112
Utilities	App d-2 (3) worksheet - Row 115	601	-	-	-	-	4	4	4	4
Company accounting and tax	App d-2 (3) worksheet - Row 116	-	-	-	-	-	-	-	-	-
Lender support costs (LTA fees, legal fees)	App d-2 (3) worksheet - Row 117	-	-	-	-	-	-	-	-	-
Agreement required construction insurance	App d-2 (3) worksheet - Row 118	2,254	-	-	-	-	13	13	14	14
Other insurance (please specify)	App d-2 (3) worksheet - Row 119	-	-	-	-	-	-	-	-	-
Permits	App d-2 (3) worksheet - Row 120	-	-	-	-	-	-	-	-	-
Inspection and reporting	App d-2 (3) worksheet - Row 121	1,628	-	-	-	-	10	10	10	10
Maintenance patrols* (included in Staffing Costs)	App d-2 (3) worksheet - Row 122	-	-	-	-	-	-	-	-	-
Reporting	App d-2 (3) worksheet - Row 123	751	-	-	-	-	4	4	5	5
Integrated Maintenance Management System	App d-2 (3) worksheet - Row 124	801	-	-	-	-	5	5	5	5
Maintenance Patrols	App d-2 (3) worksheet - Row 125	-	-	-	-	-	-	-	-	-
Other direct costs	App d-2 (3) worksheet - Row 126	20,349	-	-	-	-	121	121	123	123
TOTAL	App d-2 (3) worksheet - Row 127	88,595	-	-	-	-	525	525	537	537

OUTOUTS - APPENDIX D-2 (3)

Operation Operation Operation Operation Operation Operation Operation Operation Operation

11. OPERATING COSTS

Cost Item	Model Reference	Total	Mar 2016	Jun 2016	Sep 2016	Dec 2016	Mar 2017	Jun 2017	Sep 2017	Dec 2017	Mar 2018
Fixed Costs	App d-2 (3) worksheet - Row 111										
Staffing	App d-2 (3) worksheet - Row 112	43,752	260	260	266	266	265	265	271	271	272
Policing	App d-2 (3) worksheet - Row 113	-	-	-	-	-	-	-	-	-	-
Security monitoring	App d-2 (3) worksheet - Row 114	18,459	110	110	112	112	112	112	114	114	115
Utilities	App d-2 (3) worksheet - Row 115	601	4	4	4	4	4	4	4	4	4
Company accounting and tax	App d-2 (3) worksheet - Row 116	-	-	-	-	-	-	-	-	-	-
Lender support costs (LTA fees, legal fees)	App d-2 (3) worksheet - Row 117	-	-	-	-	-	-	-	-	-	-
Agreement required construction insurance	App d-2 (3) worksheet - Row 118	2,254	13	13	14	14	14	14	14	14	14
Other insurance (please specify)	App d-2 (3) worksheet - Row 119	-	-	-	-	-	-	-	-	-	-
Permits	App d-2 (3) worksheet - Row 120	-	-	-	-	-	-	-	-	-	-
Inspection and reporting	App d-2 (3) worksheet - Row 121	1,628	10	10	10	10	10	10	10	10	10
Maintenance patrols* (included in Staffing Costs)	App d-2 (3) worksheet - Row 122	-	-	-	-	-	-	-	-	-	-
Reporting	App d-2 (3) worksheet - Row 123	751	4	4	5	5	5	5	5	5	5
Integrated Maintenance Management System	App d-2 (3) worksheet - Row 124	801	5	5	5	5	5	5	5	5	5
Maintenance Patrols	App d-2 (3) worksheet - Row 125	-	-	-	-	-	-	-	-	-	-
Other direct costs	App d-2 (3) worksheet - Row 126	20,349	121	121	124	124	123	123	126	126	127
TOTAL	App d-2 (3) worksheet - Row 127	88,595	526	526	538	538	536	536	548	548	551

All Checks Are OK
PRESIDIO PARKWAY PROJECT V3.32 (BID MODEL) BASE CASE TIFIA & BOND SOLUTION

30 Jun 2018 30 Sep 2018 31 Dec 2018 31 Mar 2019 30 Jun 2019 30 Sep 2019 31 Dec 2019 31 Mar 2020 30 Jun 2020

OUTOUTS - APPENDIX D-2 (3)

Operation Operation Operation Operation Operation Operation Operation Operation Operation

11. OPERATING COSTS

Cost Item	Model Reference	Total	Jun 2018	Sep 2018	Dec 2018	Mar 2019	Jun 2019	Sep 2019	Dec 2019	Mar 2020	Jun 2020
Fixed Costs	App d-2 (3) worksheet - Row 111										
Staffing	App d-2 (3) worksheet - Row 112	43,752	272	278	278	286	286	292	292	312	312
Policing	App d-2 (3) worksheet - Row 113	-	-	-	-	-	-	-	-	-	-
Security monitoring	App d-2 (3) worksheet - Row 114	18,459	115	117	117	121	121	123	123	132	132
Utilities	App d-2 (3) worksheet - Row 115	601	4	4	4	4	4	4	4	4	4
Company accounting and tax	App d-2 (3) worksheet - Row 116	-	-	-	-	-	-	-	-	-	-
Lender support costs (LTA fees, legal fees)	App d-2 (3) worksheet - Row 117	-	-	-	-	-	-	-	-	-	-
Agreement required construction insurance	App d-2 (3) worksheet - Row 118	2,254	14	14	14	15	15	15	15	16	16
Other insurance (please specify)	App d-2 (3) worksheet - Row 119	-	-	-	-	-	-	-	-	-	-
Permits	App d-2 (3) worksheet - Row 120	-	-	-	-	-	-	-	-	-	-
Inspection and reporting	App d-2 (3) worksheet - Row 121	1,628	10	10	10	11	11	11	11	12	12
Maintenance patrols* (included in Staffing Costs)	App d-2 (3) worksheet - Row 122	-	-	-	-	-	-	-	-	-	-
Reporting	App d-2 (3) worksheet - Row 123	751	5	5	5	5	5	5	5	5	5
Integrated Maintenance Management System	App d-2 (3) worksheet - Row 124	801	5	5	5	5	5	5	5	6	6
Maintenance Patrols	App d-2 (3) worksheet - Row 125	-	-	-	-	-	-	-	-	-	-
Other direct costs	App d-2 (3) worksheet - Row 126	20,349	127	129	129	133	133	136	136	145	145
TOTAL	App d-2 (3) worksheet - Row 127	88,595	551	563	563	579	579	592	592	631	631

All Checks Are OK
PRESIDIO PARKWAY PROJECT V3.32 (BID MODEL) BASE CASE TIFIA & BOND SOLUTION

30 Sep 2020 31 Dec 2020 31 Mar 2021 30 Jun 2021 30 Sep 2021 31 Dec 2021 31 Mar 2022 30 Jun 2022 30 Sep 2022

OUTOUTS - APPENDIX D-2 (3)

Operation Operation Operation Operation Operation Operation Operation Operation Operation

11. OPERATING COSTS

Cost Item	Model Reference	Total	Sep 2020	Dec 2020	Mar 2021	Jun 2021	Sep 2021	Dec 2021	Mar 2022	Jun 2022	Sep 2022
Fixed Costs	App d-2 (3) worksheet - Row 111										
Staffing	App d-2 (3) worksheet - Row 112	43,752	319	319	290	290	296	296	296	296	303
Policing	App d-2 (3) worksheet - Row 113	-	-	-	-	-	-	-	-	-	-
Security monitoring	App d-2 (3) worksheet - Row 114	18,459	134	134	122	122	125	125	125	125	128
Utilities	App d-2 (3) worksheet - Row 115	601	4	4	4	4	4	4	4	4	4
Company accounting and tax	App d-2 (3) worksheet - Row 116	-	-	-	-	-	-	-	-	-	-
Lender support costs (LTA fees, legal fees)	App d-2 (3) worksheet - Row 117	-	-	-	-	-	-	-	-	-	-
Agreement required construction insurance	App d-2 (3) worksheet - Row 118	2,254	16	16	15	15	15	15	15	15	16
Other insurance (please specify)	App d-2 (3) worksheet - Row 119	-	-	-	-	-	-	-	-	-	-
Permits	App d-2 (3) worksheet - Row 120	-	-	-	-	-	-	-	-	-	-
Inspection and reporting	App d-2 (3) worksheet - Row 121	1,628	12	12	11	11	11	11	11	11	11
Maintenance patrols* (included in Staffing Costs)	App d-2 (3) worksheet - Row 122	-	-	-	-	-	-	-	-	-	-
Reporting	App d-2 (3) worksheet - Row 123	751	5	5	5	5	5	5	5	5	5
Integrated Maintenance Management System	App d-2 (3) worksheet - Row 124	801	6	6	5	5	5	5	5	5	6
Maintenance Patrols	App d-2 (3) worksheet - Row 125	-	-	-	-	-	-	-	-	-	-
Other direct costs	App d-2 (3) worksheet - Row 126	20,349	148	148	135	135	138	138	138	138	141
TOTAL	App d-2 (3) worksheet - Row 127	88,595	645	645	587	587	600	600	600	600	613

All Checks Are OK
PRESIDIO PARKWAY PROJECT V3.32 (BID MODEL) BASE CASE TIFIA & BOND SOLUTION

31 Dec 2022 31 Mar 2023 30 Jun 2023 30 Sep 2023 31 Dec 2023 31 Mar 2024 30 Jun 2024 30 Sep 2024 31 Dec 2024

OUTOUTS - APPENDIX D-2 (3)

Operation Operation Operation Operation Operation Operation Operation Operation Operation

11. OPERATING COSTS

Cost Item	Model Reference	Total	Dec 2022	Mar 2023	Jun 2023	Sep 2023	Dec 2023	Mar 2024	Jun 2024	Sep 2024	Dec 2024
Fixed Costs	App d-2 (3) worksheet - Row 111										
Staffing	App d-2 (3) worksheet - Row 112	43,752	303	302	302	309	309	310	310	317	317
Policing	App d-2 (3) worksheet - Row 113	-	-	-	-	-	-	-	-	-	-
Security monitoring	App d-2 (3) worksheet - Row 114	18,459	128	127	127	130	130	131	131	134	134
Utilities	App d-2 (3) worksheet - Row 115	601	4	4	4	4	4	4	4	4	4
Company accounting and tax	App d-2 (3) worksheet - Row 116	-	-	-	-	-	-	-	-	-	-
Lender support costs (LTA fees, legal fees)	App d-2 (3) worksheet - Row 117	-	-	-	-	-	-	-	-	-	-
Agreement required construction insurance	App d-2 (3) worksheet - Row 118	2,254	16	16	16	16	16	16	16	16	16
Other insurance (please specify)	App d-2 (3) worksheet - Row 119	-	-	-	-	-	-	-	-	-	-
Permits	App d-2 (3) worksheet - Row 120	-	-	-	-	-	-	-	-	-	-
Inspection and reporting	App d-2 (3) worksheet - Row 121	1,628	11	11	11	11	11	12	12	12	12
Maintenance patrols* (included in Staffing Costs)	App d-2 (3) worksheet - Row 122	-	-	-	-	-	-	-	-	-	-
Reporting	App d-2 (3) worksheet - Row 123	751	5	5	5	5	5	5	5	5	5
Integrated Maintenance Management System	App d-2 (3) worksheet - Row 124	801	6	6	6	6	6	6	6	6	6
Maintenance Patrols	App d-2 (3) worksheet - Row 125	-	-	-	-	-	-	-	-	-	-
Other direct costs	App d-2 (3) worksheet - Row 126	20,349	141	140	140	144	144	144	144	147	147
TOTAL	App d-2 (3) worksheet - Row 127	88,595	613	611	611	625	625	628	628	642	642

All Checks Are OK
PRESIDIO PARKWAY PROJECT V3.32 (BID MODEL) BASE CASE TIFIA & BOND SOLUTION

31 Mar 2025 30 Jun 2025 30 Sep 2025 31 Dec 2025 31 Mar 2026 30 Jun 2026 30 Sep 2026 31 Dec 2026 31 Mar 2027

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Operation Operation Operation Operation Operation Operation Operation Operation Operation

11. OPERATING COSTS

Cost Item	Model Reference	Total	Mar 2025	Jun 2025	Sep 2025	Dec 2025	Mar 2026	Jun 2026	Sep 2026	Dec 2026	Mar 2027
Fixed Costs	App d-2 (3) worksheet - Row 111										
Staffing	App d-2 (3) worksheet - Row 112	43,752	326	326	333	333	322	322	329	329	329
Policing	App d-2 (3) worksheet - Row 113	-	-	-	-	-	-	-	-	-	-
Security monitoring	App d-2 (3) worksheet - Row 114	18,459	137	137	140	140	136	136	139	139	139
Utilities	App d-2 (3) worksheet - Row 115	601	4	4	5	5	4	4	5	5	5
Company accounting and tax	App d-2 (3) worksheet - Row 116	-	-	-	-	-	-	-	-	-	-
Lender support costs (LTA fees, legal fees)	App d-2 (3) worksheet - Row 117	-	-	-	-	-	-	-	-	-	-
Agreement required construction insurance	App d-2 (3) worksheet - Row 118	2,254	17	17	17	17	17	17	17	17	17
Other insurance (please specify)	App d-2 (3) worksheet - Row 119	-	-	-	-	-	-	-	-	-	-
Permits	App d-2 (3) worksheet - Row 120	-	-	-	-	-	-	-	-	-	-
Inspection and reporting	App d-2 (3) worksheet - Row 121	1,628	12	12	12	12	12	12	12	12	12
Maintenance patrols* (included in Staffing Costs)	App d-2 (3) worksheet - Row 122	-	-	-	-	-	-	-	-	-	-
Reporting	App d-2 (3) worksheet - Row 123	751	6	6	6	6	6	6	6	6	6
Integrated Maintenance Management System	App d-2 (3) worksheet - Row 124	801	6	6	6	6	6	6	6	6	6
Maintenance Patrols	App d-2 (3) worksheet - Row 125	-	-	-	-	-	-	-	-	-	-
Other direct costs	App d-2 (3) worksheet - Row 126	20,349	152	152	155	155	150	150	153	153	153
TOTAL	App d-2 (3) worksheet - Row 127	88,595	660	660	674	674	653	653	667	667	667

All Checks Are OK
PRESIDIO PARKWAY PROJECT V3.32 (BID MODEL) BASE CASE TIFIA & BOND SOLUTION

30 Jun 2027 30 Sep 2027 31 Dec 2027 31 Mar 2028 30 Jun 2028 30 Sep 2028 31 Dec 2028 31 Mar 2029 30 Jun 2029

OUTOUTS - APPENDIX D-2 (3)

Operation Operation Operation Operation Operation Operation Operation Operation Operation

11. OPERATING COSTS

Cost Item	Model Reference	Total	Jun 2027	Sep 2027	Dec 2027	Mar 2028	Jun 2028	Sep 2028	Dec 2028	Mar 2029	Jun 2029
Fixed Costs	App d-2 (3) worksheet - Row 111										
Staffing	App d-2 (3) worksheet - Row 112	43,752	329	337	337	373	373	381	381	344	344
Policing	App d-2 (3) worksheet - Row 113	-	-	-	-	-	-	-	-	-	-
Security monitoring	App d-2 (3) worksheet - Row 114	18,459	139	142	142	157	157	161	161	145	145
Utilities	App d-2 (3) worksheet - Row 115	601	5	5	5	5	5	5	5	5	5
Company accounting and tax	App d-2 (3) worksheet - Row 116	-	-	-	-	-	-	-	-	-	-
Lender support costs (LTA fees, legal fees)	App d-2 (3) worksheet - Row 117	-	-	-	-	-	-	-	-	-	-
Agreement required construction insurance	App d-2 (3) worksheet - Row 118	2,254	17	17	17	19	19	20	20	18	18
Other insurance (please specify)	App d-2 (3) worksheet - Row 119	-	-	-	-	-	-	-	-	-	-
Permits	App d-2 (3) worksheet - Row 120	-	-	-	-	-	-	-	-	-	-
Inspection and reporting	App d-2 (3) worksheet - Row 121	1,628	12	13	13	14	14	14	14	13	13
Maintenance patrols* (included in Staffing Costs)	App d-2 (3) worksheet - Row 122	-	-	-	-	-	-	-	-	-	-
Reporting	App d-2 (3) worksheet - Row 123	751	6	6	6	6	6	7	7	6	6
Integrated Maintenance Management System	App d-2 (3) worksheet - Row 124	801	6	6	6	7	7	7	7	6	6
Maintenance Patrols	App d-2 (3) worksheet - Row 125	-	-	-	-	-	-	-	-	-	-
Other direct costs	App d-2 (3) worksheet - Row 126	20,349	153	157	157	173	173	177	177	160	160
TOTAL	App d-2 (3) worksheet - Row 127	88,595	667	682	682	755	755	772	772	697	697

All Checks Are OK
PRESIDIO PARKWAY PROJECT V3.32 (BID MODEL) BASE CASE TIFIA & BOND SOLUTION

30 Sep 2029 31 Dec 2029 31 Mar 2030 30 Jun 2030 30 Sep 2030 31 Dec 2030 31 Mar 2031 30 Jun 2031 30 Sep 2031

OUTOUTS - APPENDIX D-2 (3)

Operation Operation Operation Operation Operation Operation Operation Operation Operation

11. OPERATING COSTS

Cost Item	Model Reference	Total	Sep 2029	Dec 2029	Mar 2030	Jun 2030	Sep 2030	Dec 2030	Mar 2031	Jun 2031	Sep 2031
Fixed Costs	App d-2 (3) worksheet - Row 111										
Staffing	App d-2 (3) worksheet - Row 112	43,752	352	352	353	353	361	361	371	371	379
Policing	App d-2 (3) worksheet - Row 113	-	-	-	-	-	-	-	-	-	-
Security monitoring	App d-2 (3) worksheet - Row 114	18,459	148	148	149	149	152	152	157	157	160
Utilities	App d-2 (3) worksheet - Row 115	601	5	5	5	5	5	5	5	5	5
Company accounting and tax	App d-2 (3) worksheet - Row 116	-	-	-	-	-	-	-	-	-	-
Lender support costs (LTA fees, legal fees)	App d-2 (3) worksheet - Row 117	-	-	-	-	-	-	-	-	-	-
Agreement required construction insurance	App d-2 (3) worksheet - Row 118	2,254	18	18	18	18	19	19	19	19	20
Other insurance (please specify)	App d-2 (3) worksheet - Row 119	-	-	-	-	-	-	-	-	-	-
Permits	App d-2 (3) worksheet - Row 120	-	-	-	-	-	-	-	-	-	-
Inspection and reporting	App d-2 (3) worksheet - Row 121	1,628	13	13	13	13	13	13	14	14	14
Maintenance patrols* (included in Staffing Costs)	App d-2 (3) worksheet - Row 122	-	-	-	-	-	-	-	-	-	-
Reporting	App d-2 (3) worksheet - Row 123	751	6	6	6	6	6	6	6	6	7
Integrated Maintenance Management System	App d-2 (3) worksheet - Row 124	801	6	6	6	6	7	7	7	7	7
Maintenance Patrols	App d-2 (3) worksheet - Row 125	-	-	-	-	-	-	-	-	-	-
Other direct costs	App d-2 (3) worksheet - Row 126	20,349	164	164	164	164	168	168	173	173	176
TOTAL	App d-2 (3) worksheet - Row 127	88,595	712	712	715	715	731	731	752	752	768

All Checks Are OK
PRESIDIO PARKWAY PROJECT V3.32 (BID MODEL) BASE CASE TIFIA & BOND SOLUTION

31 Dec 2031 31 Mar 2032 30 Jun 2032 30 Sep 2032 31 Dec 2032 31 Mar 2033 30 Jun 2033 30 Sep 2033 31 Dec 2033

OUTOUTS - APPENDIX D-2 (3)

Operation Operation Operation Operation Operation Operation Operation Operation Operation

11. OPERATING COSTS

Cost Item	Model Reference	Total	Dec 2031	Mar 2032	Jun 2032	Sep 2032	Dec 2032	Mar 2033	Jun 2033	Sep 2033	Dec 2033
Fixed Costs	App d-2 (3) worksheet - Row 111										
Staffing	App d-2 (3) worksheet - Row 112	43,752	379	367	367	375	375	375	375	384	384
Policing	App d-2 (3) worksheet - Row 113	-	-	-	-	-	-	-	-	-	-
Security monitoring	App d-2 (3) worksheet - Row 114	18,459	160	155	155	158	158	158	158	162	162
Utilities	App d-2 (3) worksheet - Row 115	601	5	5	5	5	5	5	5	5	5
Company accounting and tax	App d-2 (3) worksheet - Row 116	-	-	-	-	-	-	-	-	-	-
Lender support costs (LTA fees, legal fees)	App d-2 (3) worksheet - Row 117	-	-	-	-	-	-	-	-	-	-
Agreement required construction insurance	App d-2 (3) worksheet - Row 118	2,254	20	19	19	19	19	19	19	20	20
Other insurance (please specify)	App d-2 (3) worksheet - Row 119	-	-	-	-	-	-	-	-	-	-
Permits	App d-2 (3) worksheet - Row 120	-	-	-	-	-	-	-	-	-	-
Inspection and reporting	App d-2 (3) worksheet - Row 121	1,628	14	14	14	14	14	14	14	14	14
Maintenance patrols* (included in Staffing Costs)	App d-2 (3) worksheet - Row 122	-	-	-	-	-	-	-	-	-	-
Reporting	App d-2 (3) worksheet - Row 123	751	7	6	6	6	6	6	6	7	7
Integrated Maintenance Management System	App d-2 (3) worksheet - Row 124	801	7	7	7	7	7	7	7	7	7
Maintenance Patrols	App d-2 (3) worksheet - Row 125	-	-	-	-	-	-	-	-	-	-
Other direct costs	App d-2 (3) worksheet - Row 126	20,349	176	171	171	175	175	175	175	178	178
TOTAL	App d-2 (3) worksheet - Row 127	88,595	768	744	744	760	760	760	760	777	777

All Checks Are OK
PRESIDIO PARKWAY PROJECT V3.32 (BID MODEL) BASE CASE TIFIA & BOND SOLUTION

31 Mar 2034 30 Jun 2034 30 Sep 2034 31 Dec 2034 31 Mar 2035 30 Jun 2035 30 Sep 2035 31 Dec 2035 31 Mar 2036

OUTOUTS - APPENDIX D-2 (3)

Operation Operation Operation Operation Operation Operation Operation Operation Operation

11. OPERATING COSTS

Cost Item	Model Reference	Total	Mar 2034	Jun 2034	Sep 2034	Dec 2034	Mar 2035	Jun 2035	Sep 2035	Dec 2035	Mar 2036
Fixed Costs	App d-2 (3) worksheet - Row 111										
Staffing	App d-2 (3) worksheet - Row 112	43,752	385	385	393	393	393	393	402	402	443
Policing	App d-2 (3) worksheet - Row 113	-	-	-	-	-	-	-	-	-	-
Security monitoring	App d-2 (3) worksheet - Row 114	18,459	162	162	166	166	166	166	169	169	187
Utilities	App d-2 (3) worksheet - Row 115	601	5	5	5	5	5	5	6	6	6
Company accounting and tax	App d-2 (3) worksheet - Row 116	-	-	-	-	-	-	-	-	-	-
Lender support costs (LTA fees, legal fees)	App d-2 (3) worksheet - Row 117	-	-	-	-	-	-	-	-	-	-
Agreement required construction insurance	App d-2 (3) worksheet - Row 118	2,254	20	20	20	20	20	20	21	21	23
Other insurance (please specify)	App d-2 (3) worksheet - Row 119	-	-	-	-	-	-	-	-	-	-
Permits	App d-2 (3) worksheet - Row 120	-	-	-	-	-	-	-	-	-	-
Inspection and reporting	App d-2 (3) worksheet - Row 121	1,628	14	14	15	15	15	15	15	15	16
Maintenance patrols* (included in Staffing Costs)	App d-2 (3) worksheet - Row 122	-	-	-	-	-	-	-	-	-	-
Reporting	App d-2 (3) worksheet - Row 123	751	7	7	7	7	7	7	7	7	8
Integrated Maintenance Management System	App d-2 (3) worksheet - Row 124	801	7	7	7	7	7	7	7	7	8
Maintenance Patrols	App d-2 (3) worksheet - Row 125	-	-	-	-	-	-	-	-	-	-
Other direct costs	App d-2 (3) worksheet - Row 126	20,349	179	179	183	183	183	183	187	187	206
TOTAL	App d-2 (3) worksheet - Row 127	88,595	779	779	797	797	796	796	813	813	898

All Checks Are OK
PRESIDIO PARKWAY PROJECT V3.32 (BID MODEL) BASE CASE TIFIA & BOND SOLUTION

30 Jun 2036 30 Sep 2036 31 Dec 2036 31 Mar 2037 30 Jun 2037 30 Sep 2037 31 Dec 2037 31 Mar 2038

OUTOUTS - APPENDIX D-2 (3)

Operation Operation Operation Operation Operation Operation Operation Operation

11. OPERATING COSTS

Cost Item	Model Reference	Total	Jun 2036	Sep 2036	Dec 2036	Mar 2037	Jun 2037	Sep 2037	Dec 2037	Mar 2038
Fixed Costs	App d-2 (3) worksheet - Row 111									
Staffing	App d-2 (3) worksheet - Row 112	43,752	443	453	453	423	423	432	432	418
Policing	App d-2 (3) worksheet - Row 113	-	-	-	-	-	-	-	-	-
Security monitoring	App d-2 (3) worksheet - Row 114	18,459	187	191	191	178	178	182	182	177
Utilities	App d-2 (3) worksheet - Row 115	601	6	6	6	6	6	6	6	6
Company accounting and tax	App d-2 (3) worksheet - Row 116	-	-	-	-	-	-	-	-	-
Lender support costs (LTA fees, legal fees)	App d-2 (3) worksheet - Row 117	-	-	-	-	-	-	-	-	-
Agreement required construction insurance	App d-2 (3) worksheet - Row 118	2,254	23	23	23	22	22	22	22	22
Other insurance (please specify)	App d-2 (3) worksheet - Row 119	-	-	-	-	-	-	-	-	-
Permits	App d-2 (3) worksheet - Row 120	-	-	-	-	-	-	-	-	-
Inspection and reporting	App d-2 (3) worksheet - Row 121	1,628	16	17	17	16	16	16	16	16
Maintenance patrols* (included in Staffing Costs)	App d-2 (3) worksheet - Row 122	-	-	-	-	-	-	-	-	-
Reporting	App d-2 (3) worksheet - Row 123	751	8	8	8	7	7	7	7	7
Integrated Maintenance Management System	App d-2 (3) worksheet - Row 124	801	8	8	8	8	8	8	8	8
Maintenance Patrols	App d-2 (3) worksheet - Row 125	-	-	-	-	-	-	-	-	-
Other direct costs	App d-2 (3) worksheet - Row 126	20,349	206	211	211	197	197	201	201	195
TOTAL	App d-2 (3) worksheet - Row 127	88,595	898	918	918	857	857	876	876	847

All Checks Are OK
PRESIDIO PARKWAY PROJECT V3.32 (BID MODEL) BASE CASE TIFIA & BOND SOLUTION

30 Jun 2038 30 Sep 2038 31 Dec 2038 31 Mar 2039 30 Jun 2039 30 Sep 2039 31 Dec 2039 31 Mar 2040

OUTOUTS - APPENDIX D-2 (3)

Operation Operation Operation Operation Operation Operation Operation Operation

11. OPERATING COSTS

Cost Item	Model Reference	Total	Jun 2038	Sep 2038	Dec 2038	Mar 2039	Jun 2039	Sep 2039	Dec 2039	Mar 2040
Fixed Costs	App d-2 (3) worksheet - Row 111									
Staffing	App d-2 (3) worksheet - Row 112	43,752	418	428	428	428	428	437	437	439
Policing	App d-2 (3) worksheet - Row 113	-	-	-	-	-	-	-	-	-
Security monitoring	App d-2 (3) worksheet - Row 114	18,459	177	180	180	180	180	184	184	185
Utilities	App d-2 (3) worksheet - Row 115	601	6	6	6	6	6	6	6	6
Company accounting and tax	App d-2 (3) worksheet - Row 116	-	-	-	-	-	-	-	-	-
Lender support costs (LTA fees, legal fees)	App d-2 (3) worksheet - Row 117	-	-	-	-	-	-	-	-	-
Agreement required construction insurance	App d-2 (3) worksheet - Row 118	2,254	22	22	22	22	22	23	23	23
Other insurance (please specify)	App d-2 (3) worksheet - Row 119	-	-	-	-	-	-	-	-	-
Permits	App d-2 (3) worksheet - Row 120	-	-	-	-	-	-	-	-	-
Inspection and reporting	App d-2 (3) worksheet - Row 121	1,628	16	16	16	16	16	16	16	16
Maintenance patrols* (included in Staffing Costs)	App d-2 (3) worksheet - Row 122	-	-	-	-	-	-	-	-	-
Reporting	App d-2 (3) worksheet - Row 123	751	7	7	7	7	7	8	8	8
Integrated Maintenance Management System	App d-2 (3) worksheet - Row 124	801	8	8	8	8	8	8	8	8
Maintenance Patrols	App d-2 (3) worksheet - Row 125	-	-	-	-	-	-	-	-	-
Other direct costs	App d-2 (3) worksheet - Row 126	20,349	195	199	199	199	199	203	203	204
TOTAL	App d-2 (3) worksheet - Row 127	88,595	847	866	866	866	866	885	885	888

All Checks Are OK
PRESIDIO PARKWAY PROJECT V3.32 (BID MODEL) BASE CASE TIFIA & BOND SOLUTION

30 Jun 2040 30 Sep 2040 31 Dec 2040 31 Mar 2041 30 Jun 2041 30 Sep 2041 31 Dec 2041 31 Mar 2042 30 Jun 2042

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Operation Operation Operation Operation Operation Operation Operation Operation Operation

11. OPERATING COSTS

Cost Item	Model Reference	Total	Jun 2040	Sep 2040	Dec 2040	Mar 2041	Jun 2041	Sep 2041	Dec 2041	Mar 2042	Jun 2042
Fixed Costs	App d-2 (3) worksheet - Row 111										
Staffing	App d-2 (3) worksheet - Row 112	43,752	439	448	448	447	447	457	457	468	468
Policing	App d-2 (3) worksheet - Row 113	-	-	-	-	-	-	-	-	-	-
Security monitoring	App d-2 (3) worksheet - Row 114	18,459	185	189	189	188	188	193	193	198	198
Utilities	App d-2 (3) worksheet - Row 115	601	6	6	6	6	6	6	6	6	6
Company accounting and tax	App d-2 (3) worksheet - Row 116	-	-	-	-	-	-	-	-	-	-
Lender support costs (LTA fees, legal fees)	App d-2 (3) worksheet - Row 117	-	-	-	-	-	-	-	-	-	-
Agreement required construction insurance	App d-2 (3) worksheet - Row 118	2,254	23	23	23	23	23	24	24	24	24
Other insurance (please specify)	App d-2 (3) worksheet - Row 119	-	-	-	-	-	-	-	-	-	-
Permits	App d-2 (3) worksheet - Row 120	-	-	-	-	-	-	-	-	-	-
Inspection and reporting	App d-2 (3) worksheet - Row 121	1,628	16	17	17	17	17	17	17	17	17
Maintenance patrols* (included in Staffing Costs)	App d-2 (3) worksheet - Row 122	-	-	-	-	-	-	-	-	-	-
Reporting	App d-2 (3) worksheet - Row 123	751	8	8	8	8	8	8	8	8	8
Integrated Maintenance Management System	App d-2 (3) worksheet - Row 124	801	8	8	8	8	8	8	8	9	9
Maintenance Patrols	App d-2 (3) worksheet - Row 125	-	-	-	-	-	-	-	-	-	-
Other direct costs	App d-2 (3) worksheet - Row 126	20,349	204	208	208	208	208	212	212	218	218
TOTAL	App d-2 (3) worksheet - Row 127	88,595	888	908	908	905	905	924	924	949	949

All Checks Are OK
PRESIDIO PARKWAY PROJECT V3.32 (BID MODEL) BASE CASE TIFIA & BOND SOLUTION

30 Sep 2042 31 Dec 2042 31 Mar 2043 30 Jun 2043 30 Sep 2043 31 Dec 2043 31 Mar 2044 30 Jun 2044

OUTOUTS - APPENDIX D-2 (3)

Operation Operation Operation Operation Operation Operation Operation Operation

11. OPERATING COSTS

Cost Item	Model Reference	Total	Sep 2042	Dec 2042	Mar 2043	Jun 2043	Sep 2043	Dec 2043	Mar 2044	Jun 2044
Fixed Costs	App d-2 (3) worksheet - Row 111									
Staffing	App d-2 (3) worksheet - Row 112	43,752	479	479	475	475	486	486	486	486
Policing	App d-2 (3) worksheet - Row 113	-	-	-	-	-	-	-	-	-
Security monitoring	App d-2 (3) worksheet - Row 114	18,459	202	202	201	201	205	205	205	205
Utilities	App d-2 (3) worksheet - Row 115	601	7	7	7	7	7	7	7	7
Company accounting and tax	App d-2 (3) worksheet - Row 116	-	-	-	-	-	-	-	-	-
Lender support costs (LTA fees, legal fees)	App d-2 (3) worksheet - Row 117	-	-	-	-	-	-	-	-	-
Agreement required construction insurance	App d-2 (3) worksheet - Row 118	2,254	25	25	24	24	25	25	25	25
Other insurance (please specify)	App d-2 (3) worksheet - Row 119	-	-	-	-	-	-	-	-	-
Permits	App d-2 (3) worksheet - Row 120	-	-	-	-	-	-	-	-	-
Inspection and reporting	App d-2 (3) worksheet - Row 121	1,628	18	18	18	18	18	18	18	18
Maintenance patrols* (included in Staffing Costs)	App d-2 (3) worksheet - Row 122	-	-	-	-	-	-	-	-	-
Reporting	App d-2 (3) worksheet - Row 123	751	8	8	8	8	8	8	8	8
Integrated Maintenance Management System	App d-2 (3) worksheet - Row 124	801	9	9	9	9	9	9	9	9
Maintenance Patrols	App d-2 (3) worksheet - Row 125	-	-	-	-	-	-	-	-	-
Other direct costs	App d-2 (3) worksheet - Row 126	20,349	223	223	221	221	226	226	226	226
TOTAL	App d-2 (3) worksheet - Row 127	88,595	969	969	963	963	984	984	984	984

All Checks Are OK
PRESIDIO PARKWAY PROJECT V3.32 (BID MODEL) BASE CASE TIFIA & BOND SOLUTION

30 Sep 2044 31 Dec 2044 31 Mar 2045 30 Jun 2045 30 Sep 2045 31 Dec 2045 31 Mar 2046 30 Jun 2046

OUTOUTS - APPENDIX D-2 (3)

Operation Operation Post Op. Post Op. Post Op. Post Op. Post Op. Post Op.

11. OPERATING COSTS

Cost Item	Model Reference	Total	Sep 2044	Dec 2044	Mar 2045	Jun 2045	Sep 2045	Dec 2045	Mar 2046	Jun 2046
Fixed Costs	App d-2 (3) worksheet - Row 111									
Staffing	App d-2 (3) worksheet - Row 112	43,752	497	497	-	-	-	-	-	-
Policing	App d-2 (3) worksheet - Row 113	-	-	-	-	-	-	-	-	-
Security monitoring	App d-2 (3) worksheet - Row 114	18,459	210	210	-	-	-	-	-	-
Utilities	App d-2 (3) worksheet - Row 115	601	7	7	-	-	-	-	-	-
Company accounting and tax	App d-2 (3) worksheet - Row 116	-	-	-	-	-	-	-	-	-
Lender support costs (LTA fees, legal fees)	App d-2 (3) worksheet - Row 117	-	-	-	-	-	-	-	-	-
Agreement required construction insurance	App d-2 (3) worksheet - Row 118	2,254	26	26	-	-	-	-	-	-
Other insurance (please specify)	App d-2 (3) worksheet - Row 119	-	-	-	-	-	-	-	-	-
Permits	App d-2 (3) worksheet - Row 120	-	-	-	-	-	-	-	-	-
Inspection and reporting	App d-2 (3) worksheet - Row 121	1,628	18	18	-	-	-	-	-	-
Maintenance patrols* (included in Staffing Costs)	App d-2 (3) worksheet - Row 122	-	-	-	-	-	-	-	-	-
Reporting	App d-2 (3) worksheet - Row 123	751	9	9	-	-	-	-	-	-
Integrated Maintenance Management System	App d-2 (3) worksheet - Row 124	801	9	9	-	-	-	-	-	-
Maintenance Patrols	App d-2 (3) worksheet - Row 125	-	-	-	-	-	-	-	-	-
Other direct costs	App d-2 (3) worksheet - Row 126	20,349	231	231	-	-	-	-	-	-
TOTAL	App d-2 (3) worksheet - Row 127	88,595	1,006	1,006	-	-	-	-	-	-

All Checks Are OK
PRESIDIO PARKWAY PROJECT V3.32 (BID MODEL) BASE CASE TIFIA & BOND SOLUTION

30 Sep 2046 31 Dec 2046

OUTOUTS - APPENDIX D-2 (3)

Post Op. Post Op.

11. OPERATING COSTS

Cost Item	Model Reference	Total	Sep 2046	Dec 2046
Fixed Costs	App d-2 (3) worksheet - Row 111			
Staffing	App d-2 (3) worksheet - Row 112	43,752	-	-
Policing	App d-2 (3) worksheet - Row 113	-	-	-
Security monitoring	App d-2 (3) worksheet - Row 114	18,459	-	-
Utilities	App d-2 (3) worksheet - Row 115	601	-	-
Company accounting and tax	App d-2 (3) worksheet - Row 116	-	-	-
Lender support costs (LTA fees, legal fees)	App d-2 (3) worksheet - Row 117	-	-	-
Agreement required construction insurance	App d-2 (3) worksheet - Row 118	2,254	-	-
Other insurance (please specify)	App d-2 (3) worksheet - Row 119	-	-	-
Permits	App d-2 (3) worksheet - Row 120	-	-	-
Inspection and reporting	App d-2 (3) worksheet - Row 121	1,628	-	-
Maintenance patrols* (included in Staffing Costs)	App d-2 (3) worksheet - Row 122	-	-	-
Reporting	App d-2 (3) worksheet - Row 123	751	-	-
Integrated Maintenance Management System	App d-2 (3) worksheet - Row 124	801	-	-
Maintenance Patrols	App d-2 (3) worksheet - Row 125	-	-	-
Other direct costs	App d-2 (3) worksheet - Row 126	20,349	-	-
TOTAL	App d-2 (3) worksheet - Row 127	88,595	-	-

OUTOUTS - APPENDIX D-2 (3)

12. ROUTINE MAINTENANCE COSTS

Cost Item	Model Reference	Total								
Variable Costs	App d-2 (3) worksheet - Row 132									
Flexible Pavement	App d-2 (3) worksheet - Row 133	90			-	-	-	-	-	-
Rigid Pavement	App d-2 (3) worksheet - Row 134	155			-	-	-	-	-	-
Slopes, Drainage and Vegetation	App d-2 (3) worksheet - Row 135									
Vegetation control	App d-2 (3) worksheet - Row 136	-			-	-	-	-	-	-
Fencing	App d-2 (3) worksheet - Row 137	-			-	-	-	-	-	-
Retaining walls	App d-2 (3) worksheet - Row 138	125			-	-	-	-	-	-
Litter and Debris	App d-2 (3) worksheet - Row 139									
Debris removal	App d-2 (3) worksheet - Row 140	1,603			-	-	-	-	-	-
Litter removal	App d-2 (3) worksheet - Row 141	-			-	-	-	-	-	-
Graffiti removal	App d-2 (3) worksheet - Row 142	125			-	-	-	-	-	-
Contaminated Materials/Fuel Spills	App d-2 (3) worksheet - Row 143	267			-	-	-	-	-	-
Landscaping	App d-2 (3) worksheet - Row 144	498			-	-	-	-	-	-
Drains and drainage	App d-2 (3) worksheet - Row 145	75			-	-	-	-	-	-
Erosion Control	App d-2 (3) worksheet - Row 146	-			-	-	-	-	-	-
Structures	App d-2 (3) worksheet - Row 147									
Major Damage	App d-2 (3) worksheet - Row 148	-			-	-	-	-	-	-
Minor Damage	App d-2 (3) worksheet - Row 149	351			-	-	-	-	-	-
Bridge Deck	App d-2 (3) worksheet - Row 150	-			-	-	-	-	-	-
Tunnel Systems	App d-2 (3) worksheet - Row 151									
Mechanical Systems Operability	App d-2 (3) worksheet - Row 152	467			-	-	-	-	-	-
Fire Protection/Detection Systems Operability	App d-2 (3) worksheet - Row 153	-			-	-	-	-	-	-
Electrical Power Distribution Systems Operability	App d-2 (3) worksheet - Row 154	-			-	-	-	-	-	-
SCADA Systems Operability	App d-2 (3) worksheet - Row 155	-			-	-	-	-	-	-
Security Systems Operability	App d-2 (3) worksheet - Row 156	-			-	-	-	-	-	-
Tunnel Air Quality	App d-2 (3) worksheet - Row 157	-			-	-	-	-	-	-
Tunnel Washing	App d-2 (3) worksheet - Row 158	14,192			-	-	-	-	-	-
ITS and Communications	App d-2 (3) worksheet - Row 159									
ITS Systems Operability	App d-2 (3) worksheet - Row 160	-			-	-	-	-	-	-
ITS Maintenance	App d-2 (3) worksheet - Row 161	83			-	-	-	-	-	-
Existing Communications Links	App d-2 (3) worksheet - Row 162	-			-	-	-	-	-	-
Electrical	App d-2 (3) worksheet - Row 163									
Highway and Tunnel Lighting	App d-2 (3) worksheet - Row 164	1,252			-	-	-	-	-	-
Sign Lighting	App d-2 (3) worksheet - Row 165	-			-	-	-	-	-	-
Traffic Signals	App d-2 (3) worksheet - Row 166	-			-	-	-	-	-	-
Traffic Guidance	App d-2 (3) worksheet - Row 167									
Pavement Markings/Delineators	App d-2 (3) worksheet - Row 168	1,441			-	-	-	-	-	-
Signage	App d-2 (3) worksheet - Row 169	29			-	-	-	-	-	-
Guardrail	App d-2 (3) worksheet - Row 170	103			-	-	-	-	-	-
Barrier Wall	App d-2 (3) worksheet - Row 171	100			-	-	-	-	-	-
Attenuators	App d-2 (3) worksheet - Row 172	50			-	-	-	-	-	-
Storm Maintenance/Major Damage	App d-2 (3) worksheet - Row 173	351			-	-	-	-	-	-
Incident Response	App d-2 (3) worksheet - Row 174	2,504			-	-	-	-	-	-
TOTAL	App d-2 (3) worksheet - Row 175	23,862			-	-	-	-	-	-

All Checks Are OK
PRESIDIO PARKWAY PROJECT V3.32 (BID MODEL) BASE CASE TIFIA & BOND SOLUTION

31 Mar 2014 30 Jun 2014 30 Sep 2014 31 Dec 2014 31 Mar 2015 30 Jun 2015 30 Sep 2015 31 Dec 2015
 Construction Construction Construction Construction Sub. Completion Sub. Completion Operation Operation

OUTOUTS - APPENDIX D-2 (3)

12. ROUTINE MAINTENANCE COSTS

Cost Item	Model Reference	Total	Mar 2014	Jun 2014	Sep 2014	Dec 2014	Mar 2015	Jun 2015	Sep 2015	Dec 2015
Variable Costs	App d-2 (3) worksheet - Row 132									
Flexible Pavement	App d-2 (3) worksheet - Row 133	90	-	-	-	-	1	1	1	1
Rigid Pavement	App d-2 (3) worksheet - Row 134	155	-	-	-	-	1	1	1	1
Slopes, Drainage and Vegetation	App d-2 (3) worksheet - Row 135									
Vegetation control	App d-2 (3) worksheet - Row 136	-	-	-	-	-	-	-	-	-
Fencing	App d-2 (3) worksheet - Row 137	-	-	-	-	-	-	-	-	-
Retaining walls	App d-2 (3) worksheet - Row 138	125	-	-	-	-	1	1	1	1
Litter and Debris	App d-2 (3) worksheet - Row 139									
Debris removal	App d-2 (3) worksheet - Row 140	1,603	-	-	-	-	10	10	10	10
Litter removal	App d-2 (3) worksheet - Row 141	-	-	-	-	-	-	-	-	-
Graffiti removal	App d-2 (3) worksheet - Row 142	125	-	-	-	-	1	1	1	1
Contaminated Materials/Fuel Spills	App d-2 (3) worksheet - Row 143	267	-	-	-	-	2	2	2	2
Landscaping	App d-2 (3) worksheet - Row 144	498	-	-	-	-	3	3	3	3
Drains and drainage	App d-2 (3) worksheet - Row 145	75	-	-	-	-	0	0	0	0
Erosion Control	App d-2 (3) worksheet - Row 146	-	-	-	-	-	-	-	-	-
Structures	App d-2 (3) worksheet - Row 147									
Major Damage	App d-2 (3) worksheet - Row 148	-	-	-	-	-	-	-	-	-
Minor Damage	App d-2 (3) worksheet - Row 149	351	-	-	-	-	2	2	2	2
Bridge Deck	App d-2 (3) worksheet - Row 150	-	-	-	-	-	-	-	-	-
Tunnel Systems	App d-2 (3) worksheet - Row 151									
Mechanical Systems Operability	App d-2 (3) worksheet - Row 152	467	-	-	-	-	3	3	3	3
Fire Protection/Detection Systems Operability	App d-2 (3) worksheet - Row 153	-	-	-	-	-	-	-	-	-
Electrical Power Distribution Systems Operability	App d-2 (3) worksheet - Row 154	-	-	-	-	-	-	-	-	-
SCADA Systems Operability	App d-2 (3) worksheet - Row 155	-	-	-	-	-	-	-	-	-
Security Systems Operability	App d-2 (3) worksheet - Row 156	-	-	-	-	-	-	-	-	-
Tunnel Air Quality	App d-2 (3) worksheet - Row 157	-	-	-	-	-	-	-	-	-
Tunnel Washing	App d-2 (3) worksheet - Row 158	14,192	-	-	-	-	84	84	86	86
ITS and Communications	App d-2 (3) worksheet - Row 159									
ITS Systems Operability	App d-2 (3) worksheet - Row 160	-	-	-	-	-	-	-	-	-
ITS Maintenance	App d-2 (3) worksheet - Row 161	83	-	-	-	-	0	0	1	1
Existing Communications Links	App d-2 (3) worksheet - Row 162	-	-	-	-	-	-	-	-	-
Electrical	App d-2 (3) worksheet - Row 163									
Highway and Tunnel Lighting	App d-2 (3) worksheet - Row 164	1,252	-	-	-	-	7	7	8	8
Sign Lighting	App d-2 (3) worksheet - Row 165	-	-	-	-	-	-	-	-	-
Traffic Signals	App d-2 (3) worksheet - Row 166	-	-	-	-	-	-	-	-	-
Traffic Guidance	App d-2 (3) worksheet - Row 167									
Pavement Markings/Delineators	App d-2 (3) worksheet - Row 168	1,441	-	-	-	-	9	9	9	9
Signage	App d-2 (3) worksheet - Row 169	29	-	-	-	-	0	0	0	0
Guardrail	App d-2 (3) worksheet - Row 170	103	-	-	-	-	1	1	1	1
Barrier Wall	App d-2 (3) worksheet - Row 171	100	-	-	-	-	1	1	1	1
Attenuators	App d-2 (3) worksheet - Row 172	50	-	-	-	-	0	0	0	0
Storm Maintenance/Major Damage	App d-2 (3) worksheet - Row 173	351	-	-	-	-	2	2	2	2
Incident Response	App d-2 (3) worksheet - Row 174	2,504	-	-	-	-	15	15	15	15
TOTAL	App d-2 (3) worksheet - Row 175	23,862	-	-	-	-	142	142	145	145

OUTOUTS - APPENDIX D-2 (3)

Operation Operation Operation Operation Operation Operation Operation Operation Operation

12. ROUTINE MAINTENANCE COSTS

Cost Item	Model Reference	Total	Mar 2016	Jun 2016	Sep 2016	Dec 2016	Mar 2017	Jun 2017	Sep 2017	Dec 2017	Mar 2018
Variable Costs	App d-2 (3) worksheet - Row 132										
Flexible Pavement	App d-2 (3) worksheet - Row 133	90	1	1	1	1	1	1	1	1	1
Rigid Pavement	App d-2 (3) worksheet - Row 134	155	1	1	1	1	1	1	1	1	1
Slopes, Drainage and Vegetation	App d-2 (3) worksheet - Row 135										
Vegetation control	App d-2 (3) worksheet - Row 136	-	-	-	-	-	-	-	-	-	-
Fencing	App d-2 (3) worksheet - Row 137	-	-	-	-	-	-	-	-	-	-
Retaining walls	App d-2 (3) worksheet - Row 138	125	1	1	1	1	1	1	1	1	1
Litter and Debris	App d-2 (3) worksheet - Row 139										
Debris removal	App d-2 (3) worksheet - Row 140	1,603	10	10	10	10	10	10	10	10	10
Litter removal	App d-2 (3) worksheet - Row 141	-	-	-	-	-	-	-	-	-	-
Graffiti removal	App d-2 (3) worksheet - Row 142	125	1	1	1	1	1	1	1	1	1
Contaminated Materials/Fuel Spills	App d-2 (3) worksheet - Row 143	267	2	2	2	2	2	2	2	2	2
Landscaping	App d-2 (3) worksheet - Row 144	498	3	3	3	3	3	3	3	3	3
Drains and drainage	App d-2 (3) worksheet - Row 145	75	0	0	0	0	0	0	0	0	0
Erosion Control	App d-2 (3) worksheet - Row 146	-	-	-	-	-	-	-	-	-	-
Structures	App d-2 (3) worksheet - Row 147										
Major Damage	App d-2 (3) worksheet - Row 148	-	-	-	-	-	-	-	-	-	-
Minor Damage	App d-2 (3) worksheet - Row 149	351	2	2	2	2	2	2	2	2	2
Bridge Deck	App d-2 (3) worksheet - Row 150	-	-	-	-	-	-	-	-	-	-
Tunnel Systems	App d-2 (3) worksheet - Row 151										
Mechanical Systems Operability	App d-2 (3) worksheet - Row 152	467	3	3	3	3	3	3	3	3	3
Fire Protection/Detection Systems Operability	App d-2 (3) worksheet - Row 153	-	-	-	-	-	-	-	-	-	-
Electrical Power Distribution Systems Operability	App d-2 (3) worksheet - Row 154	-	-	-	-	-	-	-	-	-	-
SCADA Systems Operability	App d-2 (3) worksheet - Row 155	-	-	-	-	-	-	-	-	-	-
Security Systems Operability	App d-2 (3) worksheet - Row 156	-	-	-	-	-	-	-	-	-	-
Tunnel Air Quality	App d-2 (3) worksheet - Row 157	-	-	-	-	-	-	-	-	-	-
Tunnel Washing	App d-2 (3) worksheet - Row 158	14,192	84	84	86	86	86	86	88	88	88
ITS and Communications	App d-2 (3) worksheet - Row 159										
ITS Systems Operability	App d-2 (3) worksheet - Row 160	-	-	-	-	-	-	-	-	-	-
ITS Maintenance	App d-2 (3) worksheet - Row 161	83	0	0	1	1	1	1	1	1	1
Existing Communications Links	App d-2 (3) worksheet - Row 162	-	-	-	-	-	-	-	-	-	-
Electrical	App d-2 (3) worksheet - Row 163										
Highway and Tunnel Lighting	App d-2 (3) worksheet - Row 164	1,252	7	7	8	8	8	8	8	8	8
Sign Lighting	App d-2 (3) worksheet - Row 165	-	-	-	-	-	-	-	-	-	-
Traffic Signals	App d-2 (3) worksheet - Row 166	-	-	-	-	-	-	-	-	-	-
Traffic Guidance	App d-2 (3) worksheet - Row 167										
Pavement Markings/Delineators	App d-2 (3) worksheet - Row 168	1,441	9	9	9	9	9	9	9	9	9
Signage	App d-2 (3) worksheet - Row 169	29	0	0	0	0	0	0	0	0	0
Guardrail	App d-2 (3) worksheet - Row 170	103	1	1	1	1	1	1	1	1	1
Barrier Wall	App d-2 (3) worksheet - Row 171	100	1	1	1	1	1	1	1	1	1
Attenuators	App d-2 (3) worksheet - Row 172	50	0	0	0	0	0	0	0	0	0
Storm Maintenance/Major Damage	App d-2 (3) worksheet - Row 173	351	2	2	2	2	2	2	2	2	2
Incident Response	App d-2 (3) worksheet - Row 174	2,504	15	15	15	15	15	15	15	15	16
TOTAL	App d-2 (3) worksheet - Row 175	23,862	142	142	145	145	144	144	148	148	148

OUTOUTS - APPENDIX D-2 (3)

Operation Operation Operation Operation Operation Operation Operation Operation Operation

12. ROUTINE MAINTENANCE COSTS

Cost Item	Model Reference	Total	Jun 2018	Sep 2018	Dec 2018	Mar 2019	Jun 2019	Sep 2019	Dec 2019	Mar 2020	Jun 2020
Variable Costs	App d-2 (3) worksheet - Row 132										
Flexible Pavement	App d-2 (3) worksheet - Row 133	90	1	1	1	1	1	1	1	1	1
Rigid Pavement	App d-2 (3) worksheet - Row 134	155	1	1	1	1	1	1	1	1	1
Slopes, Drainage and Vegetation	App d-2 (3) worksheet - Row 135										
Vegetation control	App d-2 (3) worksheet - Row 136	-	-	-	-	-	-	-	-	-	-
Fencing	App d-2 (3) worksheet - Row 137	-	-	-	-	-	-	-	-	-	-
Retaining walls	App d-2 (3) worksheet - Row 138	125	1	1	1	1	1	1	1	1	1
Litter and Debris	App d-2 (3) worksheet - Row 139										
Debris removal	App d-2 (3) worksheet - Row 140	1,603	10	10	10	10	10	11	11	11	11
Litter removal	App d-2 (3) worksheet - Row 141	-	-	-	-	-	-	-	-	-	-
Graffiti removal	App d-2 (3) worksheet - Row 142	125	1	1	1	1	1	1	1	1	1
Contaminated Materials/Fuel Spills	App d-2 (3) worksheet - Row 143	267	2	2	2	2	2	2	2	2	2
Landscaping	App d-2 (3) worksheet - Row 144	498	3	3	3	3	3	3	3	4	4
Drains and drainage	App d-2 (3) worksheet - Row 145	75	0	0	0	0	0	1	1	1	1
Erosion Control	App d-2 (3) worksheet - Row 146	-	-	-	-	-	-	-	-	-	-
Structures	App d-2 (3) worksheet - Row 147										
Major Damage	App d-2 (3) worksheet - Row 148	-	-	-	-	-	-	-	-	-	-
Minor Damage	App d-2 (3) worksheet - Row 149	351	2	2	2	2	2	2	2	2	2
Bridge Deck	App d-2 (3) worksheet - Row 150	-	-	-	-	-	-	-	-	-	-
Tunnel Systems	App d-2 (3) worksheet - Row 151										
Mechanical Systems Operability	App d-2 (3) worksheet - Row 152	467	3	3	3	3	3	3	3	3	3
Fire Protection/Detection Systems Operability	App d-2 (3) worksheet - Row 153	-	-	-	-	-	-	-	-	-	-
Electrical Power Distribution Systems Operability	App d-2 (3) worksheet - Row 154	-	-	-	-	-	-	-	-	-	-
SCADA Systems Operability	App d-2 (3) worksheet - Row 155	-	-	-	-	-	-	-	-	-	-
Security Systems Operability	App d-2 (3) worksheet - Row 156	-	-	-	-	-	-	-	-	-	-
Tunnel Air Quality	App d-2 (3) worksheet - Row 157	-	-	-	-	-	-	-	-	-	-
Tunnel Washing	App d-2 (3) worksheet - Row 158	14,192	88	90	90	93	93	95	95	101	101
ITS and Communications	App d-2 (3) worksheet - Row 159										
ITS Systems Operability	App d-2 (3) worksheet - Row 160	-	-	-	-	-	-	-	-	-	-
ITS Maintenance	App d-2 (3) worksheet - Row 161	83	1	1	1	1	1	1	1	1	1
Existing Communications Links	App d-2 (3) worksheet - Row 162	-	-	-	-	-	-	-	-	-	-
Electrical	App d-2 (3) worksheet - Row 163										
Highway and Tunnel Lighting	App d-2 (3) worksheet - Row 164	1,252	8	8	8	8	8	8	8	9	9
Sign Lighting	App d-2 (3) worksheet - Row 165	-	-	-	-	-	-	-	-	-	-
Traffic Signals	App d-2 (3) worksheet - Row 166	-	-	-	-	-	-	-	-	-	-
Traffic Guidance	App d-2 (3) worksheet - Row 167										
Pavement Markings/Delineators	App d-2 (3) worksheet - Row 168	1,441	9	9	9	9	9	10	10	10	10
Signage	App d-2 (3) worksheet - Row 169	29	0	0	0	0	0	0	0	0	0
Guardrail	App d-2 (3) worksheet - Row 170	103	1	1	1	1	1	1	1	1	1
Barrier Wall	App d-2 (3) worksheet - Row 171	100	1	1	1	1	1	1	1	1	1
Attenuators	App d-2 (3) worksheet - Row 172	50	0	0	0	0	0	0	0	0	0
Storm Maintenance/Major Damage	App d-2 (3) worksheet - Row 173	351	2	2	2	2	2	2	2	2	2
Incident Response	App d-2 (3) worksheet - Row 174	2,504	16	16	16	16	16	17	17	18	18
TOTAL	App d-2 (3) worksheet - Row 175	23,862	148	152	152	156	156	159	159	170	170

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12. ROUTINE MAINTENANCE COSTS

Cost Item	Model Reference	Total	Sep 2020	Dec 2020	Mar 2021	Jun 2021	Sep 2021	Dec 2021	Mar 2022	Jun 2022	Sep 2022
Variable Costs	App d-2 (3) worksheet - Row 132										
Flexible Pavement	App d-2 (3) worksheet - Row 133	90	1	1	1	1	1	1	1	1	1
Rigid Pavement	App d-2 (3) worksheet - Row 134	155	1	1	1	1	1	1	1	1	1
Slopes, Drainage and Vegetation	App d-2 (3) worksheet - Row 135										
Vegetation control	App d-2 (3) worksheet - Row 136	-	-	-	-	-	-	-	-	-	-
Fencing	App d-2 (3) worksheet - Row 137	-	-	-	-	-	-	-	-	-	-
Retaining walls	App d-2 (3) worksheet - Row 138	125	1	1	1	1	1	1	1	1	1
Litter and Debris	App d-2 (3) worksheet - Row 139										
Debris removal	App d-2 (3) worksheet - Row 140	1,603	12	12	11	11	11	11	11	11	11
Litter removal	App d-2 (3) worksheet - Row 141	-	-	-	-	-	-	-	-	-	-
Graffiti removal	App d-2 (3) worksheet - Row 142	125	1	1	1	1	1	1	1	1	1
Contaminated Materials/Fuel Spills	App d-2 (3) worksheet - Row 143	267	2	2	2	2	2	2	2	2	2
Landscaping	App d-2 (3) worksheet - Row 144	498	4	4	3	3	3	3	3	3	3
Drains and drainage	App d-2 (3) worksheet - Row 145	75	1	1	0	0	1	1	1	1	1
Erosion Control	App d-2 (3) worksheet - Row 146	-	-	-	-	-	-	-	-	-	-
Structures	App d-2 (3) worksheet - Row 147										
Major Damage	App d-2 (3) worksheet - Row 148	-	-	-	-	-	-	-	-	-	-
Minor Damage	App d-2 (3) worksheet - Row 149	351	3	3	2	2	2	2	2	2	2
Bridge Deck	App d-2 (3) worksheet - Row 150	-	-	-	-	-	-	-	-	-	-
Tunnel Systems	App d-2 (3) worksheet - Row 151										
Mechanical Systems Operability	App d-2 (3) worksheet - Row 152	467	3	3	3	3	3	3	3	3	3
Fire Protection/Detection Systems Operability	App d-2 (3) worksheet - Row 153	-	-	-	-	-	-	-	-	-	-
Electrical Power Distribution Systems Operability	App d-2 (3) worksheet - Row 154	-	-	-	-	-	-	-	-	-	-
SCADA Systems Operability	App d-2 (3) worksheet - Row 155	-	-	-	-	-	-	-	-	-	-
Security Systems Operability	App d-2 (3) worksheet - Row 156	-	-	-	-	-	-	-	-	-	-
Tunnel Air Quality	App d-2 (3) worksheet - Row 157	-	-	-	-	-	-	-	-	-	-
Tunnel Washing	App d-2 (3) worksheet - Row 158	14,192	103	103	94	94	96	96	96	96	98
ITS and Communications	App d-2 (3) worksheet - Row 159										
ITS Systems Operability	App d-2 (3) worksheet - Row 160	-	-	-	-	-	-	-	-	-	-
ITS Maintenance	App d-2 (3) worksheet - Row 161	83	1	1	1	1	1	1	1	1	1
Existing Communications Links	App d-2 (3) worksheet - Row 162	-	-	-	-	-	-	-	-	-	-
Electrical	App d-2 (3) worksheet - Row 163										
Highway and Tunnel Lighting	App d-2 (3) worksheet - Row 164	1,252	9	9	8	8	8	8	8	8	9
Sign Lighting	App d-2 (3) worksheet - Row 165	-	-	-	-	-	-	-	-	-	-
Traffic Signals	App d-2 (3) worksheet - Row 166	-	-	-	-	-	-	-	-	-	-
Traffic Guidance	App d-2 (3) worksheet - Row 167										
Pavement Markings/Delineators	App d-2 (3) worksheet - Row 168	1,441	10	10	10	10	10	10	10	10	10
Signage	App d-2 (3) worksheet - Row 169	29	0	0	0	0	0	0	0	0	0
Guardrail	App d-2 (3) worksheet - Row 170	103	1	1	1	1	1	1	1	1	1
Barrier Wall	App d-2 (3) worksheet - Row 171	100	1	1	1	1	1	1	1	1	1
Attenuators	App d-2 (3) worksheet - Row 172	50	0	0	0	0	0	0	0	0	0
Storm Maintenance/Major Damage	App d-2 (3) worksheet - Row 173	351	3	3	2	2	2	2	2	2	2
Incident Response	App d-2 (3) worksheet - Row 174	2,504	18	18	17	17	17	17	17	17	17
TOTAL	App d-2 (3) worksheet - Row 175	23,862	174	174	158	158	162	162	162	162	165

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12. ROUTINE MAINTENANCE COSTS

Cost Item	Model Reference	Total	Dec 2022	Mar 2023	Jun 2023	Sep 2023	Dec 2023	Mar 2024	Jun 2024	Sep 2024	Dec 2024
Variable Costs	App d-2 (3) worksheet - Row 132										
Flexible Pavement	App d-2 (3) worksheet - Row 133	90	1	1	1	1	1	1	1	1	1
Rigid Pavement	App d-2 (3) worksheet - Row 134	155	1	1	1	1	1	1	1	1	1
Slopes, Drainage and Vegetation	App d-2 (3) worksheet - Row 135										
Vegetation control	App d-2 (3) worksheet - Row 136	-	-	-	-	-	-	-	-	-	-
Fencing	App d-2 (3) worksheet - Row 137	-	-	-	-	-	-	-	-	-	-
Retaining walls	App d-2 (3) worksheet - Row 138	125	1	1	1	1	1	1	1	1	1
Litter and Debris	App d-2 (3) worksheet - Row 139										
Debris removal	App d-2 (3) worksheet - Row 140	1,603	11	11	11	11	11	11	11	12	12
Litter removal	App d-2 (3) worksheet - Row 141	-	-	-	-	-	-	-	-	-	-
Graffiti removal	App d-2 (3) worksheet - Row 142	125	1	1	1	1	1	1	1	1	1
Contaminated Materials/Fuel Spills	App d-2 (3) worksheet - Row 143	267	2	2	2	2	2	2	2	2	2
Landscaping	App d-2 (3) worksheet - Row 144	498	3	3	3	4	4	4	4	4	4
Drains and drainage	App d-2 (3) worksheet - Row 145	75	1	1	1	1	1	1	1	1	1
Erosion Control	App d-2 (3) worksheet - Row 146	-	-	-	-	-	-	-	-	-	-
Structures	App d-2 (3) worksheet - Row 147										
Major Damage	App d-2 (3) worksheet - Row 148	-	-	-	-	-	-	-	-	-	-
Minor Damage	App d-2 (3) worksheet - Row 149	351	2	2	2	2	2	2	2	3	3
Bridge Deck	App d-2 (3) worksheet - Row 150	-	-	-	-	-	-	-	-	-	-
Tunnel Systems	App d-2 (3) worksheet - Row 151										
Mechanical Systems Operability	App d-2 (3) worksheet - Row 152	467	3	3	3	3	3	3	3	3	3
Fire Protection/Detection Systems Operability	App d-2 (3) worksheet - Row 153	-	-	-	-	-	-	-	-	-	-
Electrical Power Distribution Systems Operability	App d-2 (3) worksheet - Row 154	-	-	-	-	-	-	-	-	-	-
SCADA Systems Operability	App d-2 (3) worksheet - Row 155	-	-	-	-	-	-	-	-	-	-
Security Systems Operability	App d-2 (3) worksheet - Row 156	-	-	-	-	-	-	-	-	-	-
Tunnel Air Quality	App d-2 (3) worksheet - Row 157	-	-	-	-	-	-	-	-	-	-
Tunnel Washing	App d-2 (3) worksheet - Row 158	14,192	98	98	98	100	100	101	101	103	103
ITS and Communications	App d-2 (3) worksheet - Row 159										
ITS Systems Operability	App d-2 (3) worksheet - Row 160	-	-	-	-	-	-	-	-	-	-
ITS Maintenance	App d-2 (3) worksheet - Row 161	83	1	1	1	1	1	1	1	1	1
Existing Communications Links	App d-2 (3) worksheet - Row 162	-	-	-	-	-	-	-	-	-	-
Electrical	App d-2 (3) worksheet - Row 163										
Highway and Tunnel Lighting	App d-2 (3) worksheet - Row 164	1,252	9	9	9	9	9	9	9	9	9
Sign Lighting	App d-2 (3) worksheet - Row 165	-	-	-	-	-	-	-	-	-	-
Traffic Signals	App d-2 (3) worksheet - Row 166	-	-	-	-	-	-	-	-	-	-
Traffic Guidance	App d-2 (3) worksheet - Row 167										
Pavement Markings/Delineators	App d-2 (3) worksheet - Row 168	1,441	10	10	10	10	10	10	10	10	10
Signage	App d-2 (3) worksheet - Row 169	29	0	0	0	0	0	0	0	0	0
Guardrail	App d-2 (3) worksheet - Row 170	103	1	1	1	1	1	1	1	1	1
Barrier Wall	App d-2 (3) worksheet - Row 171	100	1	1	1	1	1	1	1	1	1
Attenuators	App d-2 (3) worksheet - Row 172	50	0	0	0	0	0	0	0	0	0
Storm Maintenance/Major Damage	App d-2 (3) worksheet - Row 173	351	2	2	2	2	2	2	2	3	3
Incident Response	App d-2 (3) worksheet - Row 174	2,504	17	17	17	18	18	18	18	18	18
TOTAL	App d-2 (3) worksheet - Row 175	23,862	165	165	165	168	168	169	169	173	173

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12. ROUTINE MAINTENANCE COSTS

Cost Item	Model Reference	Total	Mar 2025	Jun 2025	Sep 2025	Dec 2025	Mar 2026	Jun 2026	Sep 2026	Dec 2026	Mar 2027
Variable Costs	App d-2 (3) worksheet - Row 132										
Flexible Pavement	App d-2 (3) worksheet - Row 133	90	1	1	1	1	1	1	1	1	1
Rigid Pavement	App d-2 (3) worksheet - Row 134	155	1	1	1	1	1	1	1	1	1
Slopes, Drainage and Vegetation	App d-2 (3) worksheet - Row 135										
Vegetation control	App d-2 (3) worksheet - Row 136	-	-	-	-	-	-	-	-	-	-
Fencing	App d-2 (3) worksheet - Row 137	-	-	-	-	-	-	-	-	-	-
Retaining walls	App d-2 (3) worksheet - Row 138	125	1	1	1	1	1	1	1	1	1
Litter and Debris	App d-2 (3) worksheet - Row 139										
Debris removal	App d-2 (3) worksheet - Row 140	1,603	12	12	12	12	12	12	12	12	12
Litter removal	App d-2 (3) worksheet - Row 141	-	-	-	-	-	-	-	-	-	-
Graffiti removal	App d-2 (3) worksheet - Row 142	125	1	1	1	1	1	1	1	1	1
Contaminated Materials/Fuel Spills	App d-2 (3) worksheet - Row 143	267	2	2	2	2	2	2	2	2	2
Landscaping	App d-2 (3) worksheet - Row 144	498	4	4	4	4	4	4	4	4	4
Drains and drainage	App d-2 (3) worksheet - Row 145	75	1	1	1	1	1	1	1	1	1
Erosion Control	App d-2 (3) worksheet - Row 146	-	-	-	-	-	-	-	-	-	-
Structures	App d-2 (3) worksheet - Row 147										
Major Damage	App d-2 (3) worksheet - Row 148	-	-	-	-	-	-	-	-	-	-
Minor Damage	App d-2 (3) worksheet - Row 149	351	3	3	3	3	3	3	3	3	3
Bridge Deck	App d-2 (3) worksheet - Row 150	-	-	-	-	-	-	-	-	-	-
Tunnel Systems	App d-2 (3) worksheet - Row 151										
Mechanical Systems Operability	App d-2 (3) worksheet - Row 152	467	3	3	4	4	3	3	4	4	4
Fire Protection/Detection Systems Operability	App d-2 (3) worksheet - Row 153	-	-	-	-	-	-	-	-	-	-
Electrical Power Distribution Systems Operability	App d-2 (3) worksheet - Row 154	-	-	-	-	-	-	-	-	-	-
SCADA Systems Operability	App d-2 (3) worksheet - Row 155	-	-	-	-	-	-	-	-	-	-
Security Systems Operability	App d-2 (3) worksheet - Row 156	-	-	-	-	-	-	-	-	-	-
Tunnel Air Quality	App d-2 (3) worksheet - Row 157	-	-	-	-	-	-	-	-	-	-
Tunnel Washing	App d-2 (3) worksheet - Row 158	14,192	106	106	108	108	105	105	107	107	107
ITS and Communications	App d-2 (3) worksheet - Row 159										
ITS Systems Operability	App d-2 (3) worksheet - Row 160	-	-	-	-	-	-	-	-	-	-
ITS Maintenance	App d-2 (3) worksheet - Row 161	83	1	1	1	1	1	1	1	1	1
Existing Communications Links	App d-2 (3) worksheet - Row 162	-	-	-	-	-	-	-	-	-	-
Electrical	App d-2 (3) worksheet - Row 163										
Highway and Tunnel Lighting	App d-2 (3) worksheet - Row 164	1,252	9	9	10	10	9	9	9	9	9
Sign Lighting	App d-2 (3) worksheet - Row 165	-	-	-	-	-	-	-	-	-	-
Traffic Signals	App d-2 (3) worksheet - Row 166	-	-	-	-	-	-	-	-	-	-
Traffic Guidance	App d-2 (3) worksheet - Row 167										
Pavement Markings/Delineators	App d-2 (3) worksheet - Row 168	1,441	11	11	11	11	11	11	11	11	11
Signage	App d-2 (3) worksheet - Row 169	29	0	0	0	0	0	0	0	0	0
Guardrail	App d-2 (3) worksheet - Row 170	103	1	1	1	1	1	1	1	1	1
Barrier Wall	App d-2 (3) worksheet - Row 171	100	1	1	1	1	1	1	1	1	1
Attenuators	App d-2 (3) worksheet - Row 172	50	0	0	0	0	0	0	0	0	0
Storm Maintenance/Major Damage	App d-2 (3) worksheet - Row 173	351	3	3	3	3	3	3	3	3	3
Incident Response	App d-2 (3) worksheet - Row 174	2,504	19	19	19	19	18	18	19	19	19
TOTAL	App d-2 (3) worksheet - Row 175	23,862	178	178	182	182	176	176	180	180	180

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12. ROUTINE MAINTENANCE COSTS

Cost Item	Model Reference	Total	Jun 2027	Sep 2027	Dec 2027	Mar 2028	Jun 2028	Sep 2028	Dec 2028	Mar 2029	Jun 2029
Variable Costs	App d-2 (3) worksheet - Row 132										
Flexible Pavement	App d-2 (3) worksheet - Row 133	90	1	1	1	1	1	1	1	1	1
Rigid Pavement	App d-2 (3) worksheet - Row 134	155	1	1	1	1	1	1	1	1	1
Slopes, Drainage and Vegetation	App d-2 (3) worksheet - Row 135										
Vegetation control	App d-2 (3) worksheet - Row 136	-	-	-	-	-	-	-	-	-	-
Fencing	App d-2 (3) worksheet - Row 137	-	-	-	-	-	-	-	-	-	-
Retaining walls	App d-2 (3) worksheet - Row 138	125	1	1	1	1	1	1	1	1	1
Litter and Debris	App d-2 (3) worksheet - Row 139										
Debris removal	App d-2 (3) worksheet - Row 140	1,603	12	12	12	14	14	14	14	13	13
Litter removal	App d-2 (3) worksheet - Row 141	-	-	-	-	-	-	-	-	-	-
Graffiti removal	App d-2 (3) worksheet - Row 142	125	1	1	1	1	1	1	1	1	1
Contaminated Materials/Fuel Spills	App d-2 (3) worksheet - Row 143	267	2	2	2	2	2	2	2	2	2
Landscaping	App d-2 (3) worksheet - Row 144	498	4	4	4	4	4	4	4	4	4
Drains and drainage	App d-2 (3) worksheet - Row 145	75	1	1	1	1	1	1	1	1	1
Erosion Control	App d-2 (3) worksheet - Row 146	-	-	-	-	-	-	-	-	-	-
Structures	App d-2 (3) worksheet - Row 147										
Major Damage	App d-2 (3) worksheet - Row 148	-	-	-	-	-	-	-	-	-	-
Minor Damage	App d-2 (3) worksheet - Row 149	351	3	3	3	3	3	3	3	3	3
Bridge Deck	App d-2 (3) worksheet - Row 150	-	-	-	-	-	-	-	-	-	-
Tunnel Systems	App d-2 (3) worksheet - Row 151										
Mechanical Systems Operability	App d-2 (3) worksheet - Row 152	467	4	4	4	4	4	4	4	4	4
Fire Protection/Detection Systems Operability	App d-2 (3) worksheet - Row 153	-	-	-	-	-	-	-	-	-	-
Electrical Power Distribution Systems Operability	App d-2 (3) worksheet - Row 154	-	-	-	-	-	-	-	-	-	-
SCADA Systems Operability	App d-2 (3) worksheet - Row 155	-	-	-	-	-	-	-	-	-	-
Security Systems Operability	App d-2 (3) worksheet - Row 156	-	-	-	-	-	-	-	-	-	-
Tunnel Air Quality	App d-2 (3) worksheet - Row 157	-	-	-	-	-	-	-	-	-	-
Tunnel Washing	App d-2 (3) worksheet - Row 158	14,192	107	109	109	121	121	124	124	112	112
ITS and Communications	App d-2 (3) worksheet - Row 159										
ITS Systems Operability	App d-2 (3) worksheet - Row 160	-	-	-	-	-	-	-	-	-	-
ITS Maintenance	App d-2 (3) worksheet - Row 161	83	1	1	1	1	1	1	1	1	1
Existing Communications Links	App d-2 (3) worksheet - Row 162	-	-	-	-	-	-	-	-	-	-
Electrical	App d-2 (3) worksheet - Row 163										
Highway and Tunnel Lighting	App d-2 (3) worksheet - Row 164	1,252	9	10	10	11	11	11	11	10	10
Sign Lighting	App d-2 (3) worksheet - Row 165	-	-	-	-	-	-	-	-	-	-
Traffic Signals	App d-2 (3) worksheet - Row 166	-	-	-	-	-	-	-	-	-	-
Traffic Guidance	App d-2 (3) worksheet - Row 167										
Pavement Markings/Delineators	App d-2 (3) worksheet - Row 168	1,441	11	11	11	12	12	13	13	11	11
Signage	App d-2 (3) worksheet - Row 169	29	0	0	0	0	0	0	0	0	0
Guardrail	App d-2 (3) worksheet - Row 170	103	1	1	1	1	1	1	1	1	1
Barrier Wall	App d-2 (3) worksheet - Row 171	100	1	1	1	1	1	1	1	1	1
Attenuators	App d-2 (3) worksheet - Row 172	50	0	0	0	0	0	0	0	0	0
Storm Maintenance/Major Damage	App d-2 (3) worksheet - Row 173	351	3	3	3	3	3	3	3	3	3
Incident Response	App d-2 (3) worksheet - Row 174	2,504	19	19	19	21	21	22	22	20	20
TOTAL	App d-2 (3) worksheet - Row 175	23,862	180	184	184	203	203	208	208	188	188

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12. ROUTINE MAINTENANCE COSTS

Cost Item	Model Reference	Total	Sep 2029	Dec 2029	Mar 2030	Jun 2030	Sep 2030	Dec 2030	Mar 2031	Jun 2031	Sep 2031
Variable Costs	App d-2 (3) worksheet - Row 132										
Flexible Pavement	App d-2 (3) worksheet - Row 133	90	1	1	1	1	1	1	1	1	1
Rigid Pavement	App d-2 (3) worksheet - Row 134	155	1	1	1	1	1	1	1	1	1
Slopes, Drainage and Vegetation	App d-2 (3) worksheet - Row 135										
Vegetation control	App d-2 (3) worksheet - Row 136	-	-	-	-	-	-	-	-	-	-
Fencing	App d-2 (3) worksheet - Row 137	-	-	-	-	-	-	-	-	-	-
Retaining walls	App d-2 (3) worksheet - Row 138	125	1	1	1	1	1	1	1	1	1
Litter and Debris	App d-2 (3) worksheet - Row 139										
Debris removal	App d-2 (3) worksheet - Row 140	1,603	13	13	13	13	13	13	14	14	14
Litter removal	App d-2 (3) worksheet - Row 141	-	-	-	-	-	-	-	-	-	-
Graffiti removal	App d-2 (3) worksheet - Row 142	125	1	1	1	1	1	1	1	1	1
Contaminated Materials/Fuel Spills	App d-2 (3) worksheet - Row 143	267	2	2	2	2	2	2	2	2	2
Landscaping	App d-2 (3) worksheet - Row 144	498	4	4	4	4	4	4	4	4	4
Drains and drainage	App d-2 (3) worksheet - Row 145	75	1	1	1	1	1	1	1	1	1
Erosion Control	App d-2 (3) worksheet - Row 146	-	-	-	-	-	-	-	-	-	-
Structures	App d-2 (3) worksheet - Row 147										
Major Damage	App d-2 (3) worksheet - Row 148	-	-	-	-	-	-	-	-	-	-
Minor Damage	App d-2 (3) worksheet - Row 149	351	3	3	3	3	3	3	3	3	3
Bridge Deck	App d-2 (3) worksheet - Row 150	-	-	-	-	-	-	-	-	-	-
Tunnel Systems	App d-2 (3) worksheet - Row 151										
Mechanical Systems Operability	App d-2 (3) worksheet - Row 152	467	4	4	4	4	4	4	4	4	4
Fire Protection/Detection Systems Operability	App d-2 (3) worksheet - Row 153	-	-	-	-	-	-	-	-	-	-
Electrical Power Distribution Systems Operability	App d-2 (3) worksheet - Row 154	-	-	-	-	-	-	-	-	-	-
SCADA Systems Operability	App d-2 (3) worksheet - Row 155	-	-	-	-	-	-	-	-	-	-
Security Systems Operability	App d-2 (3) worksheet - Row 156	-	-	-	-	-	-	-	-	-	-
Tunnel Air Quality	App d-2 (3) worksheet - Row 157	-	-	-	-	-	-	-	-	-	-
Tunnel Washing	App d-2 (3) worksheet - Row 158	14,192	114	114	115	115	117	117	120	120	123
ITS and Communications	App d-2 (3) worksheet - Row 159										
ITS Systems Operability	App d-2 (3) worksheet - Row 160	-	-	-	-	-	-	-	-	-	-
ITS Maintenance	App d-2 (3) worksheet - Row 161	83	1	1	1	1	1	1	1	1	1
Existing Communications Links	App d-2 (3) worksheet - Row 162	-	-	-	-	-	-	-	-	-	-
Electrical	App d-2 (3) worksheet - Row 163										
Highway and Tunnel Lighting	App d-2 (3) worksheet - Row 164	1,252	10	10	10	10	10	10	11	11	11
Sign Lighting	App d-2 (3) worksheet - Row 165	-	-	-	-	-	-	-	-	-	-
Traffic Signals	App d-2 (3) worksheet - Row 166	-	-	-	-	-	-	-	-	-	-
Traffic Guidance	App d-2 (3) worksheet - Row 167										
Pavement Markings/Delineators	App d-2 (3) worksheet - Row 168	1,441	12	12	12	12	12	12	12	12	12
Signage	App d-2 (3) worksheet - Row 169	29	0	0	0	0	0	0	0	0	0
Guardrail	App d-2 (3) worksheet - Row 170	103	1	1	1	1	1	1	1	1	1
Barrier Wall	App d-2 (3) worksheet - Row 171	100	1	1	1	1	1	1	1	1	1
Attenuators	App d-2 (3) worksheet - Row 172	50	0	0	0	0	0	0	0	0	0
Storm Maintenance/Major Damage	App d-2 (3) worksheet - Row 173	351	3	3	3	3	3	3	3	3	3
Incident Response	App d-2 (3) worksheet - Row 174	2,504	20	20	20	20	21	21	21	21	22
TOTAL	App d-2 (3) worksheet - Row 175	23,862	192	192	193	193	197	197	202	202	207

OUTOUTS - APPENDIX D-2 (3)

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12. ROUTINE MAINTENANCE COSTS

Cost Item	Model Reference	Total	Dec 2031	Mar 2032	Jun 2032	Sep 2032	Dec 2032	Mar 2033	Jun 2033	Sep 2033	Dec 2033
Variable Costs	App d-2 (3) worksheet - Row 132										
Flexible Pavement	App d-2 (3) worksheet - Row 133	90	1	1	1	1	1	1	1	1	1
Rigid Pavement	App d-2 (3) worksheet - Row 134	155	1	1	1	1	1	1	1	1	1
Slopes, Drainage and Vegetation	App d-2 (3) worksheet - Row 135										
Vegetation control	App d-2 (3) worksheet - Row 136	-	-	-	-	-	-	-	-	-	-
Fencing	App d-2 (3) worksheet - Row 137	-	-	-	-	-	-	-	-	-	-
Retaining walls	App d-2 (3) worksheet - Row 138	125	1	1	1	1	1	1	1	1	1
Litter and Debris	App d-2 (3) worksheet - Row 139										
Debris removal	App d-2 (3) worksheet - Row 140	1,603	14	13	13	14	14	14	14	14	14
Litter removal	App d-2 (3) worksheet - Row 141	-	-	-	-	-	-	-	-	-	-
Graffiti removal	App d-2 (3) worksheet - Row 142	125	1	1	1	1	1	1	1	1	1
Contaminated Materials/Fuel Spills	App d-2 (3) worksheet - Row 143	267	2	2	2	2	2	2	2	2	2
Landscaping	App d-2 (3) worksheet - Row 144	498	4	4	4	4	4	4	4	4	4
Drains and drainage	App d-2 (3) worksheet - Row 145	75	1	1	1	1	1	1	1	1	1
Erosion Control	App d-2 (3) worksheet - Row 146	-	-	-	-	-	-	-	-	-	-
Structures	App d-2 (3) worksheet - Row 147										
Major Damage	App d-2 (3) worksheet - Row 148	-	-	-	-	-	-	-	-	-	-
Minor Damage	App d-2 (3) worksheet - Row 149	351	3	3	3	3	3	3	3	3	3
Bridge Deck	App d-2 (3) worksheet - Row 150	-	-	-	-	-	-	-	-	-	-
Tunnel Systems	App d-2 (3) worksheet - Row 151										
Mechanical Systems Operability	App d-2 (3) worksheet - Row 152	467	4	4	4	4	4	4	4	4	4
Fire Protection/Detection Systems Operability	App d-2 (3) worksheet - Row 153	-	-	-	-	-	-	-	-	-	-
Electrical Power Distribution Systems Operability	App d-2 (3) worksheet - Row 154	-	-	-	-	-	-	-	-	-	-
SCADA Systems Operability	App d-2 (3) worksheet - Row 155	-	-	-	-	-	-	-	-	-	-
Security Systems Operability	App d-2 (3) worksheet - Row 156	-	-	-	-	-	-	-	-	-	-
Tunnel Air Quality	App d-2 (3) worksheet - Row 157	-	-	-	-	-	-	-	-	-	-
Tunnel Washing	App d-2 (3) worksheet - Row 158	14,192	123	119	119	122	122	122	122	124	124
ITS and Communications	App d-2 (3) worksheet - Row 159										
ITS Systems Operability	App d-2 (3) worksheet - Row 160	-	-	-	-	-	-	-	-	-	-
ITS Maintenance	App d-2 (3) worksheet - Row 161	83	1	1	1	1	1	1	1	1	1
Existing Communications Links	App d-2 (3) worksheet - Row 162	-	-	-	-	-	-	-	-	-	-
Electrical	App d-2 (3) worksheet - Row 163										
Highway and Tunnel Lighting	App d-2 (3) worksheet - Row 164	1,252	11	11	11	11	11	11	11	11	11
Sign Lighting	App d-2 (3) worksheet - Row 165	-	-	-	-	-	-	-	-	-	-
Traffic Signals	App d-2 (3) worksheet - Row 166	-	-	-	-	-	-	-	-	-	-
Traffic Guidance	App d-2 (3) worksheet - Row 167										
Pavement Markings/Delineators	App d-2 (3) worksheet - Row 168	1,441	12	12	12	12	12	12	12	13	13
Signage	App d-2 (3) worksheet - Row 169	29	0	0	0	0	0	0	0	0	0
Guardrail	App d-2 (3) worksheet - Row 170	103	1	1	1	1	1	1	1	1	1
Barrier Wall	App d-2 (3) worksheet - Row 171	100	1	1	1	1	1	1	1	1	1
Attenuators	App d-2 (3) worksheet - Row 172	50	0	0	0	0	0	0	0	0	0
Storm Maintenance/Major Damage	App d-2 (3) worksheet - Row 173	351	3	3	3	3	3	3	3	3	3
Incident Response	App d-2 (3) worksheet - Row 174	2,504	22	21	21	21	21	21	21	22	22
TOTAL	App d-2 (3) worksheet - Row 175	23,862	207	200	200	205	205	205	205	209	209

31 Mar 2034 30 Jun 2034 30 Sep 2034 31 Dec 2034 31 Mar 2035 30 Jun 2035 30 Sep 2035 31 Dec 2035 31 Mar 2036

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12. ROUTINE MAINTENANCE COSTS

Cost Item	Model Reference	Total	Mar 2034	Jun 2034	Sep 2034	Dec 2034	Mar 2035	Jun 2035	Sep 2035	Dec 2035	Mar 2036
Variable Costs	App d-2 (3) worksheet - Row 132										
Flexible Pavement	App d-2 (3) worksheet - Row 133	90	1	1	1	1	1	1	1	1	1
Rigid Pavement	App d-2 (3) worksheet - Row 134	155	1	1	1	1	1	1	1	1	2
Slopes, Drainage and Vegetation	App d-2 (3) worksheet - Row 135										
Vegetation control	App d-2 (3) worksheet - Row 136	-	-	-	-	-	-	-	-	-	-
Fencing	App d-2 (3) worksheet - Row 137	-	-	-	-	-	-	-	-	-	-
Retaining walls	App d-2 (3) worksheet - Row 138	125	1	1	1	1	1	1	1	1	1
Litter and Debris	App d-2 (3) worksheet - Row 139										
Debris removal	App d-2 (3) worksheet - Row 140	1,603	14	14	14	14	14	14	15	15	16
Litter removal	App d-2 (3) worksheet - Row 141	-	-	-	-	-	-	-	-	-	-
Graffiti removal	App d-2 (3) worksheet - Row 142	125	1	1	1	1	1	1	1	1	1
Contaminated Materials/Fuel Spills	App d-2 (3) worksheet - Row 143	267	2	2	2	2	2	2	2	2	3
Landscaping	App d-2 (3) worksheet - Row 144	498	4	4	4	4	4	4	5	5	5
Drains and drainage	App d-2 (3) worksheet - Row 145	75	1	1	1	1	1	1	1	1	1
Erosion Control	App d-2 (3) worksheet - Row 146	-	-	-	-	-	-	-	-	-	-
Structures	App d-2 (3) worksheet - Row 147										
Major Damage	App d-2 (3) worksheet - Row 148	-	-	-	-	-	-	-	-	-	-
Minor Damage	App d-2 (3) worksheet - Row 149	351	3	3	3	3	3	3	3	3	4
Bridge Deck	App d-2 (3) worksheet - Row 150	-	-	-	-	-	-	-	-	-	-
Tunnel Systems	App d-2 (3) worksheet - Row 151										
Mechanical Systems Operability	App d-2 (3) worksheet - Row 152	467	4	4	4	4	4	4	4	4	5
Fire Protection/Detection Systems Operability	App d-2 (3) worksheet - Row 153	-	-	-	-	-	-	-	-	-	-
Electrical Power Distribution Systems Operability	App d-2 (3) worksheet - Row 154	-	-	-	-	-	-	-	-	-	-
SCADA Systems Operability	App d-2 (3) worksheet - Row 155	-	-	-	-	-	-	-	-	-	-
Security Systems Operability	App d-2 (3) worksheet - Row 156	-	-	-	-	-	-	-	-	-	-
Tunnel Air Quality	App d-2 (3) worksheet - Row 157	-	-	-	-	-	-	-	-	-	-
Tunnel Washing	App d-2 (3) worksheet - Row 158	14,192	125	125	128	128	127	127	130	130	144
ITS and Communications	App d-2 (3) worksheet - Row 159										
ITS Systems Operability	App d-2 (3) worksheet - Row 160	-	-	-	-	-	-	-	-	-	-
ITS Maintenance	App d-2 (3) worksheet - Row 161	83	1	1	1	1	1	1	1	1	1
Existing Communications Links	App d-2 (3) worksheet - Row 162	-	-	-	-	-	-	-	-	-	-
Electrical	App d-2 (3) worksheet - Row 163										
Highway and Tunnel Lighting	App d-2 (3) worksheet - Row 164	1,252	11	11	11	11	11	11	11	11	13
Sign Lighting	App d-2 (3) worksheet - Row 165	-	-	-	-	-	-	-	-	-	-
Traffic Signals	App d-2 (3) worksheet - Row 166	-	-	-	-	-	-	-	-	-	-
Traffic Guidance	App d-2 (3) worksheet - Row 167										
Pavement Markings/Delineators	App d-2 (3) worksheet - Row 168	1,441	13	13	13	13	13	13	13	13	15
Signage	App d-2 (3) worksheet - Row 169	29	0	0	0	0	0	0	0	0	0
Guardrail	App d-2 (3) worksheet - Row 170	103	1	1	1	1	1	1	1	1	1
Barrier Wall	App d-2 (3) worksheet - Row 171	100	1	1	1	1	1	1	1	1	1
Attenuators	App d-2 (3) worksheet - Row 172	50	0	0	0	0	0	0	0	0	1
Storm Maintenance/Major Damage	App d-2 (3) worksheet - Row 173	351	3	3	3	3	3	3	3	3	4
Incident Response	App d-2 (3) worksheet - Row 174	2,504	22	22	23	23	22	22	23	23	25
TOTAL	App d-2 (3) worksheet - Row 175	23,862	210	210	215	215	214	214	219	219	242

30 Jun 2036 30 Sep 2036 31 Dec 2036 31 Mar 2037 30 Jun 2037 30 Sep 2037 31 Dec 2037 31 Mar 2038

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12. ROUTINE MAINTENANCE COSTS

Cost Item	Model Reference	Total	Jun 2036	Sep 2036	Dec 2036	Mar 2037	Jun 2037	Sep 2037	Dec 2037	Mar 2038
Variable Costs	App d-2 (3) worksheet - Row 132									
Flexible Pavement	App d-2 (3) worksheet - Row 133	90	1	1	1	1	1	1	1	1
Rigid Pavement	App d-2 (3) worksheet - Row 134	155	2	2	2	2	2	2	2	1
Slopes, Drainage and Vegetation	App d-2 (3) worksheet - Row 135									
Vegetation control	App d-2 (3) worksheet - Row 136	-	-	-	-	-	-	-	-	-
Fencing	App d-2 (3) worksheet - Row 137	-	-	-	-	-	-	-	-	-
Retaining walls	App d-2 (3) worksheet - Row 138	125	1	1	1	1	1	1	1	1
Litter and Debris	App d-2 (3) worksheet - Row 139									
Debris removal	App d-2 (3) worksheet - Row 140	1,603	16	17	17	15	15	16	16	15
Litter removal	App d-2 (3) worksheet - Row 141	-	-	-	-	-	-	-	-	-
Graffiti removal	App d-2 (3) worksheet - Row 142	125	1	1	1	1	1	1	1	1
Contaminated Materials/Fuel Spills	App d-2 (3) worksheet - Row 143	267	3	3	3	3	3	3	3	3
Landscaping	App d-2 (3) worksheet - Row 144	498	5	5	5	5	5	5	5	5
Drains and drainage	App d-2 (3) worksheet - Row 145	75	1	1	1	1	1	1	1	1
Erosion Control	App d-2 (3) worksheet - Row 146	-	-	-	-	-	-	-	-	-
Structures	App d-2 (3) worksheet - Row 147									
Major Damage	App d-2 (3) worksheet - Row 148	-	-	-	-	-	-	-	-	-
Minor Damage	App d-2 (3) worksheet - Row 149	351	4	4	4	3	3	3	3	3
Bridge Deck	App d-2 (3) worksheet - Row 150	-	-	-	-	-	-	-	-	-
Tunnel Systems	App d-2 (3) worksheet - Row 151									
Mechanical Systems Operability	App d-2 (3) worksheet - Row 152	467	5	5	5	5	5	5	5	4
Fire Protection/Detection Systems Operability	App d-2 (3) worksheet - Row 153	-	-	-	-	-	-	-	-	-
Electrical Power Distribution Systems Operability	App d-2 (3) worksheet - Row 154	-	-	-	-	-	-	-	-	-
SCADA Systems Operability	App d-2 (3) worksheet - Row 155	-	-	-	-	-	-	-	-	-
Security Systems Operability	App d-2 (3) worksheet - Row 156	-	-	-	-	-	-	-	-	-
Tunnel Air Quality	App d-2 (3) worksheet - Row 157	-	-	-	-	-	-	-	-	-
Tunnel Washing	App d-2 (3) worksheet - Row 158	14,192	144	147	147	137	137	140	140	136
ITS and Communications	App d-2 (3) worksheet - Row 159									
ITS Systems Operability	App d-2 (3) worksheet - Row 160	-	-	-	-	-	-	-	-	-
ITS Maintenance	App d-2 (3) worksheet - Row 161	83	1	1	1	1	1	1	1	1
Existing Communications Links	App d-2 (3) worksheet - Row 162	-	-	-	-	-	-	-	-	-
Electrical	App d-2 (3) worksheet - Row 163									
Highway and Tunnel Lighting	App d-2 (3) worksheet - Row 164	1,252	13	13	13	12	12	12	12	12
Sign Lighting	App d-2 (3) worksheet - Row 165	-	-	-	-	-	-	-	-	-
Traffic Signals	App d-2 (3) worksheet - Row 166	-	-	-	-	-	-	-	-	-
Traffic Guidance	App d-2 (3) worksheet - Row 167									
Pavement Markings/Delineators	App d-2 (3) worksheet - Row 168	1,441	15	15	15	14	14	14	14	14
Signage	App d-2 (3) worksheet - Row 169	29	0	0	0	0	0	0	0	0
Guardrail	App d-2 (3) worksheet - Row 170	103	1	1	1	1	1	1	1	1
Barrier Wall	App d-2 (3) worksheet - Row 171	100	1	1	1	1	1	1	1	1
Attenuators	App d-2 (3) worksheet - Row 172	50	1	1	1	0	0	0	0	0
Storm Maintenance/Major Damage	App d-2 (3) worksheet - Row 173	351	4	4	4	3	3	3	3	3
Incident Response	App d-2 (3) worksheet - Row 174	2,504	25	26	26	24	24	25	25	24
TOTAL	App d-2 (3) worksheet - Row 175	23,862	242	247	247	231	231	236	236	228

All Checks Are OK
PRESIDIO PARKWAY PROJECT V3.32 (BID MODEL) BASE CASE TIFIA & BOND SOLUTION

30 Jun 2038 30 Sep 2038 31 Dec 2038 31 Mar 2039 30 Jun 2039 30 Sep 2039 31 Dec 2039 31 Mar 2040

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12. ROUTINE MAINTENANCE COSTS

Cost Item	Model Reference	Total	Jun 2038	Sep 2038	Dec 2038	Mar 2039	Jun 2039	Sep 2039	Dec 2039	Mar 2040
Variable Costs	App d-2 (3) worksheet - Row 132									
Flexible Pavement	App d-2 (3) worksheet - Row 133	90	1	1	1	1	1	1	1	1
Rigid Pavement	App d-2 (3) worksheet - Row 134	155	1	2	2	2	2	2	2	2
Slopes, Drainage and Vegetation	App d-2 (3) worksheet - Row 135									
Vegetation control	App d-2 (3) worksheet - Row 136	-	-	-	-	-	-	-	-	-
Fencing	App d-2 (3) worksheet - Row 137	-	-	-	-	-	-	-	-	-
Retaining walls	App d-2 (3) worksheet - Row 138	125	1	1	1	1	1	1	1	1
Litter and Debris	App d-2 (3) worksheet - Row 139									
Debris removal	App d-2 (3) worksheet - Row 140	1,603	15	16	16	16	16	16	16	16
Litter removal	App d-2 (3) worksheet - Row 141	-	-	-	-	-	-	-	-	-
Graffiti removal	App d-2 (3) worksheet - Row 142	125	1	1	1	1	1	1	1	1
Contaminated Materials/Fuel Spills	App d-2 (3) worksheet - Row 143	267	3	3	3	3	3	3	3	3
Landscaping	App d-2 (3) worksheet - Row 144	498	5	5	5	5	5	5	5	5
Drains and drainage	App d-2 (3) worksheet - Row 145	75	1	1	1	1	1	1	1	1
Erosion Control	App d-2 (3) worksheet - Row 146	-	-	-	-	-	-	-	-	-
Structures	App d-2 (3) worksheet - Row 147									
Major Damage	App d-2 (3) worksheet - Row 148	-	-	-	-	-	-	-	-	-
Minor Damage	App d-2 (3) worksheet - Row 149	351	3	3	3	3	3	4	4	4
Bridge Deck	App d-2 (3) worksheet - Row 150	-	-	-	-	-	-	-	-	-
Tunnel Systems	App d-2 (3) worksheet - Row 151									
Mechanical Systems Operability	App d-2 (3) worksheet - Row 152	467	4	5	5	5	5	5	5	5
Fire Protection/Detection Systems Operability	App d-2 (3) worksheet - Row 153	-	-	-	-	-	-	-	-	-
Electrical Power Distribution Systems Operability	App d-2 (3) worksheet - Row 154	-	-	-	-	-	-	-	-	-
SCADA Systems Operability	App d-2 (3) worksheet - Row 155	-	-	-	-	-	-	-	-	-
Security Systems Operability	App d-2 (3) worksheet - Row 156	-	-	-	-	-	-	-	-	-
Tunnel Air Quality	App d-2 (3) worksheet - Row 157	-	-	-	-	-	-	-	-	-
Tunnel Washing	App d-2 (3) worksheet - Row 158	14,192	136	139	139	139	139	142	142	142
ITS and Communications	App d-2 (3) worksheet - Row 159									
ITS Systems Operability	App d-2 (3) worksheet - Row 160	-	-	-	-	-	-	-	-	-
ITS Maintenance	App d-2 (3) worksheet - Row 161	83	1	1	1	1	1	1	1	1
Existing Communications Links	App d-2 (3) worksheet - Row 162	-	-	-	-	-	-	-	-	-
Electrical	App d-2 (3) worksheet - Row 163									
Highway and Tunnel Lighting	App d-2 (3) worksheet - Row 164	1,252	12	12	12	12	12	13	13	13
Sign Lighting	App d-2 (3) worksheet - Row 165	-	-	-	-	-	-	-	-	-
Traffic Signals	App d-2 (3) worksheet - Row 166	-	-	-	-	-	-	-	-	-
Traffic Guidance	App d-2 (3) worksheet - Row 167									
Pavement Markings/Delineators	App d-2 (3) worksheet - Row 168	1,441	14	14	14	14	14	14	14	14
Signage	App d-2 (3) worksheet - Row 169	29	0	0	0	0	0	0	0	0
Guardrail	App d-2 (3) worksheet - Row 170	103	1	1	1	1	1	1	1	1
Barrier Wall	App d-2 (3) worksheet - Row 171	100	1	1	1	1	1	1	1	1
Attenuators	App d-2 (3) worksheet - Row 172	50	0	0	0	0	0	1	1	1
Storm Maintenance/Major Damage	App d-2 (3) worksheet - Row 173	351	3	3	3	3	3	4	4	4
Incident Response	App d-2 (3) worksheet - Row 174	2,504	24	24	24	24	24	25	25	25
TOTAL	App d-2 (3) worksheet - Row 175	23,862	228	233	233	233	233	238	238	239

All Checks Are OK
PRESIDIO PARKWAY PROJECT V3.32 (BID MODEL) BASE CASE TIFIA & BOND SOLUTION

30 Jun 2040 30 Sep 2040 31 Dec 2040 31 Mar 2041 30 Jun 2041 30 Sep 2041 31 Dec 2041 31 Mar 2042 30 Jun 2042

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12. ROUTINE MAINTENANCE COSTS

Cost Item	Model Reference	Total	Jun 2040	Sep 2040	Dec 2040	Mar 2041	Jun 2041	Sep 2041	Dec 2041	Mar 2042	Jun 2042
Variable Costs	App d-2 (3) worksheet - Row 132										
Flexible Pavement	App d-2 (3) worksheet - Row 133	90	1	1	1	1	1	1	1	1	1
Rigid Pavement	App d-2 (3) worksheet - Row 134	155	2	2	2	2	2	2	2	2	2
Slopes, Drainage and Vegetation	App d-2 (3) worksheet - Row 135										
Vegetation control	App d-2 (3) worksheet - Row 136	-	-	-	-	-	-	-	-	-	-
Fencing	App d-2 (3) worksheet - Row 137	-	-	-	-	-	-	-	-	-	-
Retaining walls	App d-2 (3) worksheet - Row 138	125	1	1	1	1	1	1	1	1	1
Litter and Debris	App d-2 (3) worksheet - Row 139										
Debris removal	App d-2 (3) worksheet - Row 140	1,603	16	16	16	16	16	17	17	17	17
Litter removal	App d-2 (3) worksheet - Row 141	-	-	-	-	-	-	-	-	-	-
Graffiti removal	App d-2 (3) worksheet - Row 142	125	1	1	1	1	1	1	1	1	1
Contaminated Materials/Fuel Spills	App d-2 (3) worksheet - Row 143	267	3	3	3	3	3	3	3	3	3
Landscaping	App d-2 (3) worksheet - Row 144	498	5	5	5	5	5	5	5	5	5
Drains and drainage	App d-2 (3) worksheet - Row 145	75	1	1	1	1	1	1	1	1	1
Erosion Control	App d-2 (3) worksheet - Row 146	-	-	-	-	-	-	-	-	-	-
Structures	App d-2 (3) worksheet - Row 147										
Major Damage	App d-2 (3) worksheet - Row 148	-	-	-	-	-	-	-	-	-	-
Minor Damage	App d-2 (3) worksheet - Row 149	351	4	4	4	4	4	4	4	4	4
Bridge Deck	App d-2 (3) worksheet - Row 150	-	-	-	-	-	-	-	-	-	-
Tunnel Systems	App d-2 (3) worksheet - Row 151										
Mechanical Systems Operability	App d-2 (3) worksheet - Row 152	467	5	5	5	5	5	5	5	5	5
Fire Protection/Detection Systems Operability	App d-2 (3) worksheet - Row 153	-	-	-	-	-	-	-	-	-	-
Electrical Power Distribution Systems Operability	App d-2 (3) worksheet - Row 154	-	-	-	-	-	-	-	-	-	-
SCADA Systems Operability	App d-2 (3) worksheet - Row 155	-	-	-	-	-	-	-	-	-	-
Security Systems Operability	App d-2 (3) worksheet - Row 156	-	-	-	-	-	-	-	-	-	-
Tunnel Air Quality	App d-2 (3) worksheet - Row 157	-	-	-	-	-	-	-	-	-	-
Tunnel Washing	App d-2 (3) worksheet - Row 158	14,192	142	145	145	145	145	148	148	152	152
ITS and Communications	App d-2 (3) worksheet - Row 159										
ITS Systems Operability	App d-2 (3) worksheet - Row 160	-	-	-	-	-	-	-	-	-	-
ITS Maintenance	App d-2 (3) worksheet - Row 161	83	1	1	1	1	1	1	1	1	1
Existing Communications Links	App d-2 (3) worksheet - Row 162	-	-	-	-	-	-	-	-	-	-
Electrical	App d-2 (3) worksheet - Row 163										
Highway and Tunnel Lighting	App d-2 (3) worksheet - Row 164	1,252	13	13	13	13	13	13	13	13	13
Sign Lighting	App d-2 (3) worksheet - Row 165	-	-	-	-	-	-	-	-	-	-
Traffic Signals	App d-2 (3) worksheet - Row 166	-	-	-	-	-	-	-	-	-	-
Traffic Guidance	App d-2 (3) worksheet - Row 167										
Pavement Markings/Delineators	App d-2 (3) worksheet - Row 168	1,441	14	15	15	15	15	15	15	15	15
Signage	App d-2 (3) worksheet - Row 169	29	0	0	0	0	0	0	0	0	0
Guardrail	App d-2 (3) worksheet - Row 170	103	1	1	1	1	1	1	1	1	1
Barrier Wall	App d-2 (3) worksheet - Row 171	100	1	1	1	1	1	1	1	1	1
Attenuators	App d-2 (3) worksheet - Row 172	50	1	1	1	1	1	1	1	1	1
Storm Maintenance/Major Damage	App d-2 (3) worksheet - Row 173	351	4	4	4	4	4	4	4	4	4
Incident Response	App d-2 (3) worksheet - Row 174	2,504	25	26	26	26	26	26	26	27	27
TOTAL	App d-2 (3) worksheet - Row 175	23,862	239	244	244	244	244	249	249	255	255

OUTOUTS - APPENDIX D-2 (3)

Operation Operation Operation Operation Operation Operation Operation Operation

12. ROUTINE MAINTENANCE COSTS

Cost Item	Model Reference	Total	Sep 2042	Dec 2042	Mar 2043	Jun 2043	Sep 2043	Dec 2043	Mar 2044	Jun 2044
Variable Costs	App d-2 (3) worksheet - Row 132									
Flexible Pavement	App d-2 (3) worksheet - Row 133	90	1	1	1	1	1	1	1	1
Rigid Pavement	App d-2 (3) worksheet - Row 134	155	2	2	2	2	2	2	2	2
Slopes, Drainage and Vegetation	App d-2 (3) worksheet - Row 135									
Vegetation control	App d-2 (3) worksheet - Row 136	-	-	-	-	-	-	-	-	-
Fencing	App d-2 (3) worksheet - Row 137	-	-	-	-	-	-	-	-	-
Retaining walls	App d-2 (3) worksheet - Row 138	125	1	1	1	1	1	1	1	1
Litter and Debris	App d-2 (3) worksheet - Row 139									
Debris removal	App d-2 (3) worksheet - Row 140	1,603	18	18	17	17	18	18	18	18
Litter removal	App d-2 (3) worksheet - Row 141	-	-	-	-	-	-	-	-	-
Graffiti removal	App d-2 (3) worksheet - Row 142	125	1	1	1	1	1	1	1	1
Contaminated Materials/Fuel Spills	App d-2 (3) worksheet - Row 143	267	3	3	3	3	3	3	3	3
Landscaping	App d-2 (3) worksheet - Row 144	498	5	5	5	5	6	6	6	6
Drains and drainage	App d-2 (3) worksheet - Row 145	75	1	1	1	1	1	1	1	1
Erosion Control	App d-2 (3) worksheet - Row 146	-	-	-	-	-	-	-	-	-
Structures	App d-2 (3) worksheet - Row 147									
Major Damage	App d-2 (3) worksheet - Row 148	-	-	-	-	-	-	-	-	-
Minor Damage	App d-2 (3) worksheet - Row 149	351	4	4	4	4	4	4	4	4
Bridge Deck	App d-2 (3) worksheet - Row 150	-	-	-	-	-	-	-	-	-
Tunnel Systems	App d-2 (3) worksheet - Row 151									
Mechanical Systems Operability	App d-2 (3) worksheet - Row 152	467	5	5	5	5	5	5	5	5
Fire Protection/Detection Systems Operability	App d-2 (3) worksheet - Row 153	-	-	-	-	-	-	-	-	-
Electrical Power Distribution Systems Operability	App d-2 (3) worksheet - Row 154	-	-	-	-	-	-	-	-	-
SCADA Systems Operability	App d-2 (3) worksheet - Row 155	-	-	-	-	-	-	-	-	-
Security Systems Operability	App d-2 (3) worksheet - Row 156	-	-	-	-	-	-	-	-	-
Tunnel Air Quality	App d-2 (3) worksheet - Row 157	-	-	-	-	-	-	-	-	-
Tunnel Washing	App d-2 (3) worksheet - Row 158	14,192	155	155	154	154	158	158	158	158
ITS and Communications	App d-2 (3) worksheet - Row 159									
ITS Systems Operability	App d-2 (3) worksheet - Row 160	-	-	-	-	-	-	-	-	-
ITS Maintenance	App d-2 (3) worksheet - Row 161	83	1	1	1	1	1	1	1	1
Existing Communications Links	App d-2 (3) worksheet - Row 162	-	-	-	-	-	-	-	-	-
Electrical	App d-2 (3) worksheet - Row 163									
Highway and Tunnel Lighting	App d-2 (3) worksheet - Row 164	1,252	14	14	14	14	14	14	14	14
Sign Lighting	App d-2 (3) worksheet - Row 165	-	-	-	-	-	-	-	-	-
Traffic Signals	App d-2 (3) worksheet - Row 166	-	-	-	-	-	-	-	-	-
Traffic Guidance	App d-2 (3) worksheet - Row 167									
Pavement Markings/Delineators	App d-2 (3) worksheet - Row 168	1,441	16	16	16	16	16	16	16	16
Signage	App d-2 (3) worksheet - Row 169	29	0	0	0	0	0	0	0	0
Guardrail	App d-2 (3) worksheet - Row 170	103	1	1	1	1	1	1	1	1
Barrier Wall	App d-2 (3) worksheet - Row 171	100	1	1	1	1	1	1	1	1
Attenuators	App d-2 (3) worksheet - Row 172	50	1	1	1	1	1	1	1	1
Storm Maintenance/Major Damage	App d-2 (3) worksheet - Row 173	351	4	4	4	4	4	4	4	4
Incident Response	App d-2 (3) worksheet - Row 174	2,504	27	27	27	27	28	28	28	28
TOTAL	App d-2 (3) worksheet - Row 175	23,862	261	261	259	259	265	265	265	265

All Checks Are OK
PRESIDIO PARKWAY PROJECT V3.32 (BID MODEL) BASE CASE TIFIA & BOND SOLUTION

30 Sep 2044 31 Dec 2044 31 Mar 2045 30 Jun 2045 30 Sep 2045 31 Dec 2045 31 Mar 2046 30 Jun 2046

OUTOUTS - APPENDIX D-2 (3)

Operation Operation Post Op. Post Op. Post Op. Post Op. Post Op. Post Op.

12. ROUTINE MAINTENANCE COSTS

Cost Item	Model Reference	Total	Sep 2044	Dec 2044	Mar 2045	Jun 2045	Sep 2045	Dec 2045	Mar 2046	Jun 2046
Variable Costs	App d-2 (3) worksheet - Row 132									
Flexible Pavement	App d-2 (3) worksheet - Row 133	90	1	1	-	-	-	-	-	-
Rigid Pavement	App d-2 (3) worksheet - Row 134	155	2	2	-	-	-	-	-	-
Slopes, Drainage and Vegetation	App d-2 (3) worksheet - Row 135									
Vegetation control	App d-2 (3) worksheet - Row 136	-	-	-	-	-	-	-	-	-
Fencing	App d-2 (3) worksheet - Row 137	-	-	-	-	-	-	-	-	-
Retaining walls	App d-2 (3) worksheet - Row 138	125	1	1	-	-	-	-	-	-
Litter and Debris	App d-2 (3) worksheet - Row 139									
Debris removal	App d-2 (3) worksheet - Row 140	1,603	18	18	-	-	-	-	-	-
Litter removal	App d-2 (3) worksheet - Row 141	-	-	-	-	-	-	-	-	-
Graffiti removal	App d-2 (3) worksheet - Row 142	125	1	1	-	-	-	-	-	-
Contaminated Materials/Fuel Spills	App d-2 (3) worksheet - Row 143	267	3	3	-	-	-	-	-	-
Landscaping	App d-2 (3) worksheet - Row 144	498	6	6	-	-	-	-	-	-
Drains and drainage	App d-2 (3) worksheet - Row 145	75	1	1	-	-	-	-	-	-
Erosion Control	App d-2 (3) worksheet - Row 146	-	-	-	-	-	-	-	-	-
Structures	App d-2 (3) worksheet - Row 147									
Major Damage	App d-2 (3) worksheet - Row 148	-	-	-	-	-	-	-	-	-
Minor Damage	App d-2 (3) worksheet - Row 149	351	4	4	-	-	-	-	-	-
Bridge Deck	App d-2 (3) worksheet - Row 150	-	-	-	-	-	-	-	-	-
Tunnel Systems	App d-2 (3) worksheet - Row 151									
Mechanical Systems Operability	App d-2 (3) worksheet - Row 152	467	5	5	-	-	-	-	-	-
Fire Protection/Detection Systems Operability	App d-2 (3) worksheet - Row 153	-	-	-	-	-	-	-	-	-
Electrical Power Distribution Systems Operability	App d-2 (3) worksheet - Row 154	-	-	-	-	-	-	-	-	-
SCADA Systems Operability	App d-2 (3) worksheet - Row 155	-	-	-	-	-	-	-	-	-
Security Systems Operability	App d-2 (3) worksheet - Row 156	-	-	-	-	-	-	-	-	-
Tunnel Air Quality	App d-2 (3) worksheet - Row 157	-	-	-	-	-	-	-	-	-
Tunnel Washing	App d-2 (3) worksheet - Row 158	14,192	161	161	-	-	-	-	-	-
ITS and Communications	App d-2 (3) worksheet - Row 159									
ITS Systems Operability	App d-2 (3) worksheet - Row 160	-	-	-	-	-	-	-	-	-
ITS Maintenance	App d-2 (3) worksheet - Row 161	83	1	1	-	-	-	-	-	-
Existing Communications Links	App d-2 (3) worksheet - Row 162	-	-	-	-	-	-	-	-	-
Electrical	App d-2 (3) worksheet - Row 163									
Highway and Tunnel Lighting	App d-2 (3) worksheet - Row 164	1,252	14	14	-	-	-	-	-	-
Sign Lighting	App d-2 (3) worksheet - Row 165	-	-	-	-	-	-	-	-	-
Traffic Signals	App d-2 (3) worksheet - Row 166	-	-	-	-	-	-	-	-	-
Traffic Guidance	App d-2 (3) worksheet - Row 167									
Pavement Markings/Delineators	App d-2 (3) worksheet - Row 168	1,441	16	16	-	-	-	-	-	-
Signage	App d-2 (3) worksheet - Row 169	29	0	0	-	-	-	-	-	-
Guardrail	App d-2 (3) worksheet - Row 170	103	1	1	-	-	-	-	-	-
Barrier Wall	App d-2 (3) worksheet - Row 171	100	1	1	-	-	-	-	-	-
Attenuators	App d-2 (3) worksheet - Row 172	50	1	1	-	-	-	-	-	-
Storm Maintenance/Major Damage	App d-2 (3) worksheet - Row 173	351	4	4	-	-	-	-	-	-
Incident Response	App d-2 (3) worksheet - Row 174	2,504	28	28	-	-	-	-	-	-
TOTAL	App d-2 (3) worksheet - Row 175	23,862	271	271	-	-	-	-	-	-

OUTOUTS - APPENDIX D-2 (3)

Post Op. Post Op.

12. ROUTINE MAINTENANCE COSTS

Cost Item	Model Reference	Total	Sep 2046	Dec 2046
Variable Costs	App d-2 (3) worksheet - Row 132			
Flexible Pavement	App d-2 (3) worksheet - Row 133	90	-	-
Rigid Pavement	App d-2 (3) worksheet - Row 134	155	-	-
Slopes, Drainage and Vegetation	App d-2 (3) worksheet - Row 135			
Vegetation control	App d-2 (3) worksheet - Row 136	-	-	-
Fencing	App d-2 (3) worksheet - Row 137	-	-	-
Retaining walls	App d-2 (3) worksheet - Row 138	125	-	-
Litter and Debris	App d-2 (3) worksheet - Row 139			
Debris removal	App d-2 (3) worksheet - Row 140	1,603	-	-
Litter removal	App d-2 (3) worksheet - Row 141	-	-	-
Graffiti removal	App d-2 (3) worksheet - Row 142	125	-	-
Contaminated Materials/Fuel Spills	App d-2 (3) worksheet - Row 143	267	-	-
Landscaping	App d-2 (3) worksheet - Row 144	498	-	-
Drains and drainage	App d-2 (3) worksheet - Row 145	75	-	-
Erosion Control	App d-2 (3) worksheet - Row 146	-	-	-
Structures	App d-2 (3) worksheet - Row 147			
Major Damage	App d-2 (3) worksheet - Row 148	-	-	-
Minor Damage	App d-2 (3) worksheet - Row 149	351	-	-
Bridge Deck	App d-2 (3) worksheet - Row 150	-	-	-
Tunnel Systems	App d-2 (3) worksheet - Row 151			
Mechanical Systems Operability	App d-2 (3) worksheet - Row 152	467	-	-
Fire Protection/Detection Systems Operability	App d-2 (3) worksheet - Row 153	-	-	-
Electrical Power Distribution Systems Operability	App d-2 (3) worksheet - Row 154	-	-	-
SCADA Systems Operability	App d-2 (3) worksheet - Row 155	-	-	-
Security Systems Operability	App d-2 (3) worksheet - Row 156	-	-	-
Tunnel Air Quality	App d-2 (3) worksheet - Row 157	-	-	-
Tunnel Washing	App d-2 (3) worksheet - Row 158	14,192	-	-
ITS and Communications	App d-2 (3) worksheet - Row 159			
ITS Systems Operability	App d-2 (3) worksheet - Row 160	-	-	-
ITS Maintenance	App d-2 (3) worksheet - Row 161	83	-	-
Existing Communications Links	App d-2 (3) worksheet - Row 162	-	-	-
Electrical	App d-2 (3) worksheet - Row 163			
Highway and Tunnel Lighting	App d-2 (3) worksheet - Row 164	1,252	-	-
Sign Lighting	App d-2 (3) worksheet - Row 165	-	-	-
Traffic Signals	App d-2 (3) worksheet - Row 166	-	-	-
Traffic Guidance	App d-2 (3) worksheet - Row 167			
Pavement Markings/Delineators	App d-2 (3) worksheet - Row 168	1,441	-	-
Signage	App d-2 (3) worksheet - Row 169	29	-	-
Guardrail	App d-2 (3) worksheet - Row 170	103	-	-
Barrier Wall	App d-2 (3) worksheet - Row 171	100	-	-
Attenuators	App d-2 (3) worksheet - Row 172	50	-	-
Storm Maintenance/Major Damage	App d-2 (3) worksheet - Row 173	351	-	-
Incident Response	App d-2 (3) worksheet - Row 174	2,504	-	-
TOTAL	App d-2 (3) worksheet - Row 175	23,862	-	-

OUTOUTS - APPENDIX D-2 (3)

13. RENEWALS AND REHABILITATION COSTS

Cost Item	Model Reference	Total							
Variable Costs	App d-2 (3) worksheet - Row 181								
Design/Professional Costs	App d-2 (3) worksheet - Row 182	2,239							
Roadway	App d-2 (3) worksheet - Row 183								
Pavement Mainline - Portland Cement Concrete pavement (including base)	App d-2 (3) worksheet - Row 184	3,672							
Pavement Mainline - Asphaltic Concrete pavement (including base)	App d-2 (3) worksheet - Row 185	5,483							
Pavement Ramps	App d-2 (3) worksheet - Row 186	-							
Pavement Cross Streets	App d-2 (3) worksheet - Row 187	38							
Drainage	App d-2 (3) worksheet - Row 188	-							
Signs, Markings and Signalization	App d-2 (3) worksheet - Row 189	688							
Traffic Management Systems and ITS	App d-2 (3) worksheet - Row 190	7,226							
Landscaping, planting, Irrigation and Hardscape	App d-2 (3) worksheet - Row 191	90							
Lighting	App d-2 (3) worksheet - Row 192	8,788							
Minor items (including barriers and fencing)	App d-2 (3) worksheet - Row 193	1,176							
Bridges and Tunnels	App d-2 (3) worksheet - Row 194								
Bridge foundations	App d-2 (3) worksheet - Row 195	-							
Bridge columns and superstructure (amounts include Tunnel structure costs)	App d-2 (3) worksheet - Row 196	35,006							
Tunnel structures	App d-2 (3) worksheet - Row 197	-							
Tunnel Systems	App d-2 (3) worksheet - Row 198								
Tunnel Ventilation Systems	App d-2 (3) worksheet - Row 199	4,139							
Fire Suppression Systems	App d-2 (3) worksheet - Row 200	1,826							
Fire Detection and Alarm	App d-2 (3) worksheet - Row 201	-							
SCADA System (Included in Traffic Management Systems and ITS)	App d-2 (3) worksheet - Row 202	-							
Electrical System (Included in Roadway Lighting)	App d-2 (3) worksheet - Row 203	-							
Illumination	App d-2 (3) worksheet - Row 204	9,130							
Drainage	App d-2 (3) worksheet - Row 205	149							
Other	App d-2 (3) worksheet - Row 206								
Vehicles and Equipment	App d-2 (3) worksheet - Row 207	-							
TOTAL	App d-2 (3) worksheet - Row 208	79,650							

31 Mar 2014 30 Jun 2014 30 Sep 2014 31 Dec 2014 31 Mar 2015 30 Jun 2015 30 Sep 2015 31 Dec 2015
 Construction Construction Construction Construction Sub. Completion Sub. Completion Operation Operation

OUTOUTS - APPENDIX D-2 (3)

13. RENEWALS AND REHABILITATION COSTS

Cost Item	Model Reference	Total	Mar 2014	Jun 2014	Sep 2014	Dec 2014	Mar 2015	Jun 2015	Sep 2015	Dec 2015
Variable Costs	App d-2 (3) worksheet - Row 181									
Design/Professional Costs	App d-2 (3) worksheet - Row 182	2,239	-	-	-	-	1	1	1	1
Roadway	App d-2 (3) worksheet - Row 183									
Pavement Mainline - Portland Cement Concrete pavement (including base)	App d-2 (3) worksheet - Row 184	3,672	-	-	-	-	7	7	7	7
Pavement Mainline - Asphaltic Concrete pavement (including base)	App d-2 (3) worksheet - Row 185	5,483	-	-	-	-	0	0	0	0
Pavement Ramps	App d-2 (3) worksheet - Row 186	-	-	-	-	-	-	-	-	-
Pavement Cross Streets	App d-2 (3) worksheet - Row 187	38	-	-	-	-	-	-	-	-
Drainage	App d-2 (3) worksheet - Row 188	-	-	-	-	-	-	-	-	-
Signs, Markings and Signalization	App d-2 (3) worksheet - Row 189	688	-	-	-	-	-	-	-	-
Traffic Management Systems and ITS	App d-2 (3) worksheet - Row 190	7,226	-	-	-	-	-	-	-	-
Landscaping, planting, Irrigation and Hardscape	App d-2 (3) worksheet - Row 191	90	-	-	-	-	-	-	-	-
Lighting	App d-2 (3) worksheet - Row 192	8,788	-	-	-	-	-	-	-	-
Minor items (including barriers and fencing)	App d-2 (3) worksheet - Row 193	1,176	-	-	-	-	-	-	-	-
Bridges and Tunnels	App d-2 (3) worksheet - Row 194									
Bridge foundations	App d-2 (3) worksheet - Row 195	-	-	-	-	-	-	-	-	-
Bridge columns and superstructure (amounts include Tunnel structure costs)	App d-2 (3) worksheet - Row 196	35,006	-	-	-	-	0	0	0	0
Tunnel structures	App d-2 (3) worksheet - Row 197	-	-	-	-	-	-	-	-	-
Tunnel Systems	App d-2 (3) worksheet - Row 198									
Tunnel Ventilation Systems	App d-2 (3) worksheet - Row 199	4,139	-	-	-	-	-	-	-	-
Fire Suppression Systems	App d-2 (3) worksheet - Row 200	1,826	-	-	-	-	-	-	-	-
Fire Detection and Alarm	App d-2 (3) worksheet - Row 201	-	-	-	-	-	-	-	-	-
SCADA System (Included in Traffic Management Systems and ITS)	App d-2 (3) worksheet - Row 202	-	-	-	-	-	-	-	-	-
Electrical System (Included in Roadway Lighting)	App d-2 (3) worksheet - Row 203	-	-	-	-	-	-	-	-	-
Illumination	App d-2 (3) worksheet - Row 204	9,130	-	-	-	-	-	-	-	-
Drainage	App d-2 (3) worksheet - Row 205	149	-	-	-	-	-	-	-	-
Other	App d-2 (3) worksheet - Row 206									
Vehicles and Equipment	App d-2 (3) worksheet - Row 207	-	-	-	-	-	-	-	-	-
TOTAL	App d-2 (3) worksheet - Row 208	79,650	-	-	-	-	9	9	9	9

31 Mar 2016 30 Jun 2016 30 Sep 2016 31 Dec 2016 31 Mar 2017 30 Jun 2017 30 Sep 2017 31 Dec 2017

OUTOUTS - APPENDIX D-2 (3)

Operation Operation Operation Operation Operation Operation Operation Operation

13. RENEWALS AND REHABILITATION COSTS

Cost Item	Model Reference	Total	Mar 2016	Jun 2016	Sep 2016	Dec 2016	Mar 2017	Jun 2017	Sep 2017	Dec 2017
Variable Costs	App d-2 (3) worksheet - Row 181									
Design/Professional Costs	App d-2 (3) worksheet - Row 182	2,239	1	1	1	1	1	1	2	2
Roadway	App d-2 (3) worksheet - Row 183									
Pavement Mainline Portland Cement Concrete pavement (including base)	App d-2 (3) worksheet - Row 184	3,672	7	7	7	7	7	7	8	8
Pavement Mainline Asphaltic Concrete pavement (including base)	App d-2 (3) worksheet - Row 185	5,483	2	2	2	2	0	0	0	0
Pavement Ramps	App d-2 (3) worksheet - Row 186	-	-	-	-	-	-	-	-	-
Pavement Cross Streets	App d-2 (3) worksheet - Row 187	38	-	-	-	-	-	-	-	-
Drainage	App d-2 (3) worksheet - Row 188	-	-	-	-	-	-	-	-	-
Signs, Markings and Signalization	App d-2 (3) worksheet - Row 189	688	-	-	-	-	-	-	-	-
Traffic Management Systems and ITS	App d-2 (3) worksheet - Row 190	7,226	-	-	-	-	-	-	-	-
Landscaping, planting, Irrigation and Hardscape	App d-2 (3) worksheet - Row 191	90	-	-	-	-	-	-	-	-
Lighting	App d-2 (3) worksheet - Row 192	8,788	15	15	15	15	3	3	3	3
Minor items (including barriers and fencing)	App d-2 (3) worksheet - Row 193	1,176	-	-	-	-	-	-	-	-
Bridges and Tunnels	App d-2 (3) worksheet - Row 194									
Bridge foundations	App d-2 (3) worksheet - Row 195	-	-	-	-	-	-	-	-	-
Bridge columns and superstructure (amounts include Tunnel structure costs)	App d-2 (3) worksheet - Row 196	35,006	50	50	51	51	0	0	0	0
Tunnel structures	App d-2 (3) worksheet - Row 197	-	-	-	-	-	-	-	-	-
Tunnel Systems	App d-2 (3) worksheet - Row 198									
Tunnel Ventilation Systems	App d-2 (3) worksheet - Row 199	4,139	-	-	-	-	-	-	-	-
Fire Suppression Systems	App d-2 (3) worksheet - Row 200	1,826	-	-	-	-	-	-	-	-
Fire Detection and Alarm	App d-2 (3) worksheet - Row 201	-	-	-	-	-	-	-	-	-
SCADA System (Included in Traffic Management Systems and ITS)	App d-2 (3) worksheet - Row 202	-	-	-	-	-	-	-	-	-
Electrical System (Included in Roadway Lighting)	App d-2 (3) worksheet - Row 203	-	-	-	-	-	-	-	-	-
Illumination	App d-2 (3) worksheet - Row 204	9,130	-	-	-	-	-	-	-	-
Drainage	App d-2 (3) worksheet - Row 205	149	-	-	-	-	-	-	-	-
Other	App d-2 (3) worksheet - Row 206									
Vehicles and Equipment	App d-2 (3) worksheet - Row 207	-	-	-	-	-	-	-	-	-
TOTAL	App d-2 (3) worksheet - Row 208	79,650	75	75	77	77	12	12	13	13

All Checks Are OK
PRESIDIO PARKWAY PROJECT V3.32 (BID MODEL) BASE CASE TIFIA & BOND SOLUTION

31 Mar 2018 30 Jun 2018 30 Sep 2018 31 Dec 2018 31 Mar 2019 30 Jun 2019 30 Sep 2019 31 Dec 2019

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Operation Operation Operation Operation Operation Operation Operation Operation

13. RENEWALS AND REHABILITATION COSTS

Cost Item	Model Reference	Total	Mar 2018	Jun 2018	Sep 2018	Dec 2018	Mar 2019	Jun 2019	Sep 2019	Dec 2019
Variable Costs	App d-2 (3) worksheet - Row 181									
Design/Professional Costs	App d-2 (3) worksheet - Row 182	2,239	2	2	2	2	62	62	63	63
Roadway	App d-2 (3) worksheet - Row 183									
Pavement Mainline - Portland Cement Concrete pavement (including base)	App d-2 (3) worksheet - Row 184	3,672	12	12	12	12	12	12	12	12
Pavement Mainline - Asphaltic Concrete pavement (including base)	App d-2 (3) worksheet - Row 185	5,483	5	5	6	6	3	3	3	3
Pavement Ramps	App d-2 (3) worksheet - Row 186	-	-	-	-	-	-	-	-	-
Pavement Cross Streets	App d-2 (3) worksheet - Row 187	38	-	-	-	-	-	-	-	-
Drainage	App d-2 (3) worksheet - Row 188	-	-	-	-	-	-	-	-	-
Signs, Markings and Signalization	App d-2 (3) worksheet - Row 189	688	-	-	-	-	-	-	-	-
Traffic Management Systems and ITS	App d-2 (3) worksheet - Row 190	7,226	-	-	-	-	-	-	-	-
Landscaping, planting, Irrigation and Hardscape	App d-2 (3) worksheet - Row 191	90	-	-	-	-	-	-	-	-
Lighting	App d-2 (3) worksheet - Row 192	8,788	127	127	129	129	-	-	-	-
Minor items (including barriers and fencing)	App d-2 (3) worksheet - Row 193	1,176	-	-	-	-	-	-	-	-
Bridges and Tunnels	App d-2 (3) worksheet - Row 194									
Bridge foundations	App d-2 (3) worksheet - Row 195	-	-	-	-	-	-	-	-	-
Bridge columns and superstructure (amounts include Tunnel structure costs)	App d-2 (3) worksheet - Row 196	35,006	82	82	83	83	66	66	67	67
Tunnel structures	App d-2 (3) worksheet - Row 197	-	-	-	-	-	-	-	-	-
Tunnel Systems	App d-2 (3) worksheet - Row 198									
Tunnel Ventilation Systems	App d-2 (3) worksheet - Row 199	4,139	-	-	-	-	-	-	-	-
Fire Suppression Systems	App d-2 (3) worksheet - Row 200	1,826	-	-	-	-	-	-	-	-
Fire Detection and Alarm	App d-2 (3) worksheet - Row 201	-	-	-	-	-	-	-	-	-
SCADA System (Included in Traffic Management Systems and ITS)	App d-2 (3) worksheet - Row 202	-	-	-	-	-	-	-	-	-
Electrical System (Included in Roadway Lighting)	App d-2 (3) worksheet - Row 203	-	-	-	-	-	-	-	-	-
Illumination	App d-2 (3) worksheet - Row 204	9,130	-	-	-	-	-	-	-	-
Drainage	App d-2 (3) worksheet - Row 205	149	-	-	-	-	-	-	-	-
Other	App d-2 (3) worksheet - Row 206									
Vehicles and Equipment	App d-2 (3) worksheet - Row 207	-	-	-	-	-	-	-	-	-
TOTAL	App d-2 (3) worksheet - Row 208	79,650	228	228	233	233	144	144	147	147

31 Mar 2020 30 Jun 2020 30 Sep 2020 31 Dec 2020 31 Mar 2021 30 Jun 2021 30 Sep 2021 31 Dec 2021

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Operation Operation Operation Operation Operation Operation Operation Operation

13. RENEWALS AND REHABILITATION COSTS

Cost Item	Model Reference	Total	Mar 2020	Jun 2020	Sep 2020	Dec 2020	Mar 2021	Jun 2021	Sep 2021	Dec 2021
Variable Costs	App d-2 (3) worksheet - Row 181									
Design/Professional Costs	App d-2 (3) worksheet - Row 182	2,239	2	2	2	2	1	1	1	1
Roadway	App d-2 (3) worksheet - Row 183									
Pavement Mainline Portland Cement Concrete pavement (including base)	App d-2 (3) worksheet - Row 184	3,672	11	11	11	11	5	5	5	5
Pavement Mainline Asphaltic Concrete pavement (including base)	App d-2 (3) worksheet - Row 185	5,483	5	5	5	5	1	1	1	1
Pavement Ramps	App d-2 (3) worksheet - Row 186	-	-	-	-	-	-	-	-	-
Pavement Cross Streets	App d-2 (3) worksheet - Row 187	38	-	-	-	-	-	-	-	-
Drainage	App d-2 (3) worksheet - Row 188	-	-	-	-	-	-	-	-	-
Signs, Markings and Signalization	App d-2 (3) worksheet - Row 189	688	-	-	-	-	-	-	-	-
Traffic Management Systems and ITS	App d-2 (3) worksheet - Row 190	7,226	104	104	106	106	31	31	32	32
Landscaping, planting, Irrigation and Hardscape	App d-2 (3) worksheet - Row 191	90	-	-	-	-	-	-	-	-
Lighting	App d-2 (3) worksheet - Row 192	8,788	27	27	28	28	-	-	-	-
Minor items (including barriers and fencing)	App d-2 (3) worksheet - Row 193	1,176	-	-	-	-	-	-	-	-
Bridges and Tunnels	App d-2 (3) worksheet - Row 194									
Bridge foundations	App d-2 (3) worksheet - Row 195	-	-	-	-	-	-	-	-	-
Bridge columns and superstructure (amounts include Tunnel structure costs)	App d-2 (3) worksheet - Row 196	35,006	58	58	59	59	1	1	1	1
Tunnel structures	App d-2 (3) worksheet - Row 197	-	-	-	-	-	-	-	-	-
Tunnel Systems	App d-2 (3) worksheet - Row 198									
Tunnel Ventilation Systems	App d-2 (3) worksheet - Row 199	4,139	-	-	-	-	-	-	-	-
Fire Suppression Systems	App d-2 (3) worksheet - Row 200	1,826	-	-	-	-	-	-	-	-
Fire Detection and Alarm	App d-2 (3) worksheet - Row 201	-	-	-	-	-	-	-	-	-
SCADA System (Included in Traffic Management Systems and ITS)	App d-2 (3) worksheet - Row 202	-	-	-	-	-	-	-	-	-
Electrical System (Included in Roadway Lighting)	App d-2 (3) worksheet - Row 203	-	-	-	-	-	-	-	-	-
Illumination	App d-2 (3) worksheet - Row 204	9,130	-	-	-	-	-	-	-	-
Drainage	App d-2 (3) worksheet - Row 205	149	-	-	-	-	-	-	-	-
Other	App d-2 (3) worksheet - Row 206									
Vehicles and Equipment	App d-2 (3) worksheet - Row 207	-	-	-	-	-	-	-	-	-
TOTAL	App d-2 (3) worksheet - Row 208	79,650	206	206	211	211	39	39	39	39

All Checks Are OK
PRESIDIO PARKWAY PROJECT V3.32 (BID MODEL) BASE CASE TIFIA & BOND SOLUTION

31 Mar 2022 30 Jun 2022 30 Sep 2022 31 Dec 2022 31 Mar 2023 30 Jun 2023 30 Sep 2023 31 Dec 2023

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Operation Operation Operation Operation Operation Operation Operation Operation

13. RENEWALS AND REHABILITATION COSTS

Cost Item	Model Reference	Total	Mar 2022	Jun 2022	Sep 2022	Dec 2022	Mar 2023	Jun 2023	Sep 2023	Dec 2023
Variable Costs	App d-2 (3) worksheet - Row 181									
Design/Professional Costs	App d-2 (3) worksheet - Row 182	2,239	7	7	7	7	2	2	2	2
Roadway	App d-2 (3) worksheet - Row 183									
Pavement Mainline □ Portland Cement Concrete pavement (including base)	App d-2 (3) worksheet - Row 184	3,672	34	34	35	35	11	11	12	12
Pavement Mainline □ Asphaltic Concrete pavement (including base)	App d-2 (3) worksheet - Row 185	5,483	12	12	12	12	1	1	1	1
Pavement Ramps	App d-2 (3) worksheet - Row 186	-	-	-	-	-	-	-	-	-
Pavement Cross Streets	App d-2 (3) worksheet - Row 187	38	-	-	-	-	-	-	-	-
Drainage	App d-2 (3) worksheet - Row 188	-	-	-	-	-	-	-	-	-
Signs, Markings and Signalization	App d-2 (3) worksheet - Row 189	688	-	-	-	-	-	-	-	-
Traffic Management Systems and ITS	App d-2 (3) worksheet - Row 190	7,226	1	1	1	1	23	23	23	23
Landscaping, planting, Irrigation and Hardscape	App d-2 (3) worksheet - Row 191	90	-	-	-	-	-	-	-	-
Lighting	App d-2 (3) worksheet - Row 192	8,788	346	346	353	353	3	3	3	3
Minor items (including barriers and fencing)	App d-2 (3) worksheet - Row 193	1,176	-	-	-	-	-	-	-	-
Bridges and Tunnels	App d-2 (3) worksheet - Row 194									
Bridge foundations	App d-2 (3) worksheet - Row 195	-	-	-	-	-	-	-	-	-
Bridge columns and superstructure (amounts include Tunnel structure costs)	App d-2 (3) worksheet - Row 196	35,006	95	95	97	97	1	1	1	1
Tunnel structures	App d-2 (3) worksheet - Row 197	-	-	-	-	-	-	-	-	-
Tunnel Systems	App d-2 (3) worksheet - Row 198									
Tunnel Ventilation Systems	App d-2 (3) worksheet - Row 199	4,139	-	-	-	-	-	-	-	-
Fire Suppression Systems	App d-2 (3) worksheet - Row 200	1,826	-	-	-	-	-	-	-	-
Fire Detection and Alarm	App d-2 (3) worksheet - Row 201	-	-	-	-	-	-	-	-	-
SCADA System (Included in Traffic Management Systems and ITS)	App d-2 (3) worksheet - Row 202	-	-	-	-	-	-	-	-	-
Electrical System (Included in Roadway Lighting)	App d-2 (3) worksheet - Row 203	-	-	-	-	-	-	-	-	-
Illumination	App d-2 (3) worksheet - Row 204	9,130	-	-	-	-	-	-	-	-
Drainage	App d-2 (3) worksheet - Row 205	149	-	-	-	-	10	10	10	10
Other	App d-2 (3) worksheet - Row 206									
Vehicles and Equipment	App d-2 (3) worksheet - Row 207	-	-	-	-	-	-	-	-	-
TOTAL	App d-2 (3) worksheet - Row 208	79,650	493	493	504	504	52	52	53	53

All Checks Are OK
PRESIDIO PARKWAY PROJECT V3.32 (BID MODEL) BASE CASE TIFIA & BOND SOLUTION

31 Mar 2024 30 Jun 2024 30 Sep 2024 31 Dec 2024 31 Mar 2025 30 Jun 2025 30 Sep 2025 31 Dec 2025

OUTOUTS - APPENDIX D-2 (3)

Operation Operation Operation Operation Operation Operation Operation Operation

13. RENEWALS AND REHABILITATION COSTS

Cost Item	Model Reference	Total	Mar 2024	Jun 2024	Sep 2024	Dec 2024	Mar 2025	Jun 2025	Sep 2025	Dec 2025
Variable Costs	App d-2 (3) worksheet - Row 181									
Design/Professional Costs	App d-2 (3) worksheet - Row 182	2,239	14	14	14	14	-	-	-	-
Roadway	App d-2 (3) worksheet - Row 183									
Pavement Mainline Portland Cement Concrete pavement (including base)	App d-2 (3) worksheet - Row 184	3,672	25	25	26	26	-	-	-	-
Pavement Mainline Asphaltic Concrete pavement (including base)	App d-2 (3) worksheet - Row 185	5,483	58	58	59	59	1	1	1	1
Pavement Ramps	App d-2 (3) worksheet - Row 186	-	-	-	-	-	-	-	-	-
Pavement Cross Streets	App d-2 (3) worksheet - Row 187	38	9	9	9	9	-	-	-	-
Drainage	App d-2 (3) worksheet - Row 188	-	-	-	-	-	-	-	-	-
Signs, Markings and Signalization	App d-2 (3) worksheet - Row 189	688	19	19	19	19	-	-	-	-
Traffic Management Systems and ITS	App d-2 (3) worksheet - Row 190	7,226	66	66	67	67	24	24	24	24
Landscaping, planting, Irrigation and Hardscape	App d-2 (3) worksheet - Row 191	90	-	-	-	-	-	-	-	-
Lighting	App d-2 (3) worksheet - Row 192	8,788	18	18	18	18	-	-	-	-
Minor items (including barriers and fencing)	App d-2 (3) worksheet - Row 193	1,176	-	-	-	-	-	-	-	-
Bridges and Tunnels	App d-2 (3) worksheet - Row 194									
Bridge foundations	App d-2 (3) worksheet - Row 195	-	-	-	-	-	-	-	-	-
Bridge columns and superstructure (amounts include Tunnel structure costs)	App d-2 (3) worksheet - Row 196	35,006	491	491	501	501	1	1	1	1
Tunnel structures	App d-2 (3) worksheet - Row 197	-	-	-	-	-	-	-	-	-
Tunnel Systems	App d-2 (3) worksheet - Row 198									
Tunnel Ventilation Systems	App d-2 (3) worksheet - Row 199	4,139	-	-	-	-	-	-	-	-
Fire Suppression Systems	App d-2 (3) worksheet - Row 200	1,826	-	-	-	-	-	-	-	-
Fire Detection and Alarm	App d-2 (3) worksheet - Row 201	-	-	-	-	-	-	-	-	-
SCADA System (Included in Traffic Management Systems and ITS)	App d-2 (3) worksheet - Row 202	-	-	-	-	-	-	-	-	-
Electrical System (Included in Roadway Lighting)	App d-2 (3) worksheet - Row 203	-	-	-	-	-	-	-	-	-
Illumination	App d-2 (3) worksheet - Row 204	9,130	-	-	-	-	-	-	-	-
Drainage	App d-2 (3) worksheet - Row 205	149	-	-	-	-	-	-	-	-
Other	App d-2 (3) worksheet - Row 206									
Vehicles and Equipment	App d-2 (3) worksheet - Row 207	-	-	-	-	-	-	-	-	-
TOTAL	App d-2 (3) worksheet - Row 208	79,650	699	699	714	714	25	25	25	25

31 Mar 2026 30 Jun 2026 30 Sep 2026 31 Dec 2026 31 Mar 2027 30 Jun 2027 30 Sep 2027 31 Dec 2027

OUTOUTS - APPENDIX D-2 (3)

Operation Operation Operation Operation Operation Operation Operation Operation

13. RENEWALS AND REHABILITATION COSTS

Cost Item	Model Reference	Total	Mar 2026	Jun 2026	Sep 2026	Dec 2026	Mar 2027	Jun 2027	Sep 2027	Dec 2027
Variable Costs	App d-2 (3) worksheet - Row 181									
Design/Professional Costs	App d-2 (3) worksheet - Row 182	2,239	11	11	11	11	-	-	-	-
Roadway	App d-2 (3) worksheet - Row 183									
Pavement Mainline - Portland Cement Concrete pavement (including base)	App d-2 (3) worksheet - Row 184	3,672	7	7	7	7	-	-	-	-
Pavement Mainline - Asphaltic Concrete pavement (including base)	App d-2 (3) worksheet - Row 185	5,483	63	63	65	65	-	-	-	-
Pavement Ramps	App d-2 (3) worksheet - Row 186	-	-	-	-	-	-	-	-	-
Pavement Cross Streets	App d-2 (3) worksheet - Row 187	38	-	-	-	-	-	-	-	-
Drainage	App d-2 (3) worksheet - Row 188	-	-	-	-	-	-	-	-	-
Signs, Markings and Signalization	App d-2 (3) worksheet - Row 189	688	-	-	-	-	-	-	-	-
Traffic Management Systems and ITS	App d-2 (3) worksheet - Row 190	7,226	118	118	121	121	-	-	-	-
Landscaping, planting, Irrigation and Hardscape	App d-2 (3) worksheet - Row 191	90	-	-	-	-	-	-	-	-
Lighting	App d-2 (3) worksheet - Row 192	8,788	163	163	167	167	-	-	-	-
Minor items (including barriers and fencing)	App d-2 (3) worksheet - Row 193	1,176	-	-	-	-	-	-	-	-
Bridges and Tunnels	App d-2 (3) worksheet - Row 194									
Bridge foundations	App d-2 (3) worksheet - Row 195	-	-	-	-	-	-	-	-	-
Bridge columns and superstructure (amounts include Tunnel structure costs)	App d-2 (3) worksheet - Row 196	35,006	236	236	241	241	-	-	-	-
Tunnel structures	App d-2 (3) worksheet - Row 197	-	-	-	-	-	-	-	-	-
Tunnel Systems	App d-2 (3) worksheet - Row 198									
Tunnel Ventilation Systems	App d-2 (3) worksheet - Row 199	4,139	-	-	-	-	-	-	-	-
Fire Suppression Systems	App d-2 (3) worksheet - Row 200	1,826	-	-	-	-	-	-	-	-
Fire Detection and Alarm	App d-2 (3) worksheet - Row 201	-	-	-	-	-	-	-	-	-
SCADA System (Included in Traffic Management Systems and ITS)	App d-2 (3) worksheet - Row 202	-	-	-	-	-	-	-	-	-
Electrical System (Included in Roadway Lighting)	App d-2 (3) worksheet - Row 203	-	-	-	-	-	-	-	-	-
Illumination	App d-2 (3) worksheet - Row 204	9,130	-	-	-	-	-	-	-	-
Drainage	App d-2 (3) worksheet - Row 205	149	-	-	-	-	-	-	-	-
Other	App d-2 (3) worksheet - Row 206									
Vehicles and Equipment	App d-2 (3) worksheet - Row 207	-	-	-	-	-	-	-	-	-
TOTAL	App d-2 (3) worksheet - Row 208	79,650	599	599	612	612	-	-	-	-

All Checks Are OK
PRESIDIO PARKWAY PROJECT V3.32 (BID MODEL) BASE CASE TIFIA & BOND SOLUTION

31 Mar 2028 30 Jun 2028 30 Sep 2028 31 Dec 2028 31 Mar 2029 30 Jun 2029 30 Sep 2029 31 Dec 2029

OUTOUTS - APPENDIX D-2 (3)

Operation Operation Operation Operation Operation Operation Operation Operation

13. RENEWALS AND REHABILITATION COSTS

Cost Item	Model Reference	Total	Mar 2028	Jun 2028	Sep 2028	Dec 2028	Mar 2029	Jun 2029	Sep 2029	Dec 2029
Variable Costs	App d-2 (3) worksheet - Row 181									
Design/Professional Costs	App d-2 (3) worksheet - Row 182	2,239	-	-	-	-	42	42	43	43
Roadway	App d-2 (3) worksheet - Row 183									
Pavement Mainline - Portland Cement Concrete pavement (including base)	App d-2 (3) worksheet - Row 184	3,672	-	-	-	-	40	40	40	40
Pavement Mainline - Asphaltic Concrete pavement (including base)	App d-2 (3) worksheet - Row 185	5,483	3	3	3	3	190	190	194	194
Pavement Ramps	App d-2 (3) worksheet - Row 186	-	-	-	-	-	-	-	-	-
Pavement Cross Streets	App d-2 (3) worksheet - Row 187	38	-	-	-	-	-	-	-	-
Drainage	App d-2 (3) worksheet - Row 188	-	-	-	-	-	-	-	-	-
Signs, Markings and Signalization	App d-2 (3) worksheet - Row 189	688	-	-	-	-	-	-	-	-
Traffic Management Systems and ITS	App d-2 (3) worksheet - Row 190	7,226	36	36	37	37	61	61	63	63
Landscaping, planting, Irrigation and Hardscape	App d-2 (3) worksheet - Row 191	90	-	-	-	-	22	22	23	23
Lighting	App d-2 (3) worksheet - Row 192	8,788	19	19	20	20	4	4	4	4
Minor items (including barriers and fencing)	App d-2 (3) worksheet - Row 193	1,176	-	-	-	-	111	111	113	113
Bridges and Tunnels	App d-2 (3) worksheet - Row 194									
Bridge foundations	App d-2 (3) worksheet - Row 195	-	-	-	-	-	-	-	-	-
Bridge columns and superstructure (amounts include Tunnel structure costs)	App d-2 (3) worksheet - Row 196	35,006	66	66	67	67	196	196	201	201
Tunnel structures	App d-2 (3) worksheet - Row 197	-	-	-	-	-	-	-	-	-
Tunnel Systems	App d-2 (3) worksheet - Row 198									
Tunnel Ventilation Systems	App d-2 (3) worksheet - Row 199	4,139	-	-	-	-	-	-	-	-
Fire Suppression Systems	App d-2 (3) worksheet - Row 200	1,826	-	-	-	-	-	-	-	-
Fire Detection and Alarm	App d-2 (3) worksheet - Row 201	-	-	-	-	-	-	-	-	-
SCADA System (Included in Traffic Management Systems and ITS)	App d-2 (3) worksheet - Row 202	-	-	-	-	-	-	-	-	-
Electrical System (Included in Roadway Lighting)	App d-2 (3) worksheet - Row 203	-	-	-	-	-	-	-	-	-
Illumination	App d-2 (3) worksheet - Row 204	9,130	-	-	-	-	-	-	-	-
Drainage	App d-2 (3) worksheet - Row 205	149	-	-	-	-	-	-	-	-
Other	App d-2 (3) worksheet - Row 206									
Vehicles and Equipment	App d-2 (3) worksheet - Row 207	-	-	-	-	-	-	-	-	-
TOTAL	App d-2 (3) worksheet - Row 208	79,650	124	124	127	127	666	666	681	681

All Checks Are OK
PRESIDIO PARKWAY PROJECT V3.32 (BID MODEL) BASE CASE TIFIA & BOND SOLUTION

31 Mar 2030 30 Jun 2030 30 Sep 2030 31 Dec 2030 31 Mar 2031 30 Jun 2031 30 Sep 2031 31 Dec 2031

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Operation Operation Operation Operation Operation Operation Operation Operation

13. RENEWALS AND REHABILITATION COSTS

Cost Item	Model Reference	Total	Mar 2030	Jun 2030	Sep 2030	Dec 2030	Mar 2031	Jun 2031	Sep 2031	Dec 2031
Variable Costs	App d-2 (3) worksheet - Row 181									
Design/Professional Costs	App d-2 (3) worksheet - Row 182	2,239	7	7	7	7	-	-	-	-
Roadway	App d-2 (3) worksheet - Row 183									
Pavement Mainline □ Portland Cement Concrete pavement (including base)	App d-2 (3) worksheet - Row 184	3,672	35	35	36	36	-	-	-	-
Pavement Mainline □ Asphaltic Concrete pavement (including base)	App d-2 (3) worksheet - Row 185	5,483	14	14	14	14	1	1	1	1
Pavement Ramps	App d-2 (3) worksheet - Row 186	-	-	-	-	-	-	-	-	-
Pavement Cross Streets	App d-2 (3) worksheet - Row 187	38	-	-	-	-	-	-	-	-
Drainage	App d-2 (3) worksheet - Row 188	-	-	-	-	-	-	-	-	-
Signs, Markings and Signalization	App d-2 (3) worksheet - Row 189	688	-	-	-	-	33	33	34	34
Traffic Management Systems and ITS	App d-2 (3) worksheet - Row 190	7,226	1	1	1	1	-	-	-	-
Landscaping, planting, Irrigation and Hardscape	App d-2 (3) worksheet - Row 191	90	-	-	-	-	-	-	-	-
Lighting	App d-2 (3) worksheet - Row 192	8,788	411	411	420	420	-	-	-	-
Minor items (including barriers and fencing)	App d-2 (3) worksheet - Row 193	1,176	-	-	-	-	-	-	-	-
Bridges and Tunnels	App d-2 (3) worksheet - Row 194									
Bridge foundations	App d-2 (3) worksheet - Row 195	-	-	-	-	-	-	-	-	-
Bridge columns and superstructure (amounts include Tunnel structure costs)	App d-2 (3) worksheet - Row 196	35,006	113	113	115	115	1	1	1	1
Tunnel structures	App d-2 (3) worksheet - Row 197	-	-	-	-	-	-	-	-	-
Tunnel Systems	App d-2 (3) worksheet - Row 198									
Tunnel Ventilation Systems	App d-2 (3) worksheet - Row 199	4,139	-	-	-	-	-	-	-	-
Fire Suppression Systems	App d-2 (3) worksheet - Row 200	1,826	-	-	-	-	-	-	-	-
Fire Detection and Alarm	App d-2 (3) worksheet - Row 201	-	-	-	-	-	-	-	-	-
SCADA System (Included in Traffic Management Systems and ITS)	App d-2 (3) worksheet - Row 202	-	-	-	-	-	-	-	-	-
Electrical System (Included in Roadway Lighting)	App d-2 (3) worksheet - Row 203	-	-	-	-	-	-	-	-	-
Illumination	App d-2 (3) worksheet - Row 204	9,130	-	-	-	-	-	-	-	-
Drainage	App d-2 (3) worksheet - Row 205	149	-	-	-	-	-	-	-	-
Other	App d-2 (3) worksheet - Row 206									
Vehicles and Equipment	App d-2 (3) worksheet - Row 207	-	-	-	-	-	-	-	-	-
TOTAL	App d-2 (3) worksheet - Row 208	79,650	580	580	593	593	34	34	35	35

All Checks Are OK
PRESIDIO PARKWAY PROJECT V3.32 (BID MODEL) BASE CASE TIFIA & BOND SOLUTION

31 Mar 2032 30 Jun 2032 30 Sep 2032 31 Dec 2032 31 Mar 2033 30 Jun 2033 30 Sep 2033

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13. RENEWALS AND REHABILITATION COSTS

Cost Item	Model Reference	Total	Mar 2032	Jun 2032	Sep 2032	Dec 2032	Mar 2033	Jun 2033	Sep 2033
Variable Costs	App d-2 (3) worksheet - Row 181								
Design/Professional Costs	App d-2 (3) worksheet - Row 182	2,239	2	2	2	2	-	-	-
Roadway	App d-2 (3) worksheet - Row 183								
Pavement Mainline Portland Cement Concrete pavement (including base)	App d-2 (3) worksheet - Row 184	3,672	8	8	8	8	-	-	-
Pavement Mainline Asphaltic Concrete pavement (including base)	App d-2 (3) worksheet - Row 185	5,483	7	7	7	7	36	36	36
Pavement Ramps	App d-2 (3) worksheet - Row 186	-	-	-	-	-	-	-	-
Pavement Cross Streets	App d-2 (3) worksheet - Row 187	38	-	-	-	-	-	-	-
Drainage	App d-2 (3) worksheet - Row 188	-	-	-	-	-	-	-	-
Signs, Markings and Signalization	App d-2 (3) worksheet - Row 189	688	-	-	-	-	-	-	-
Traffic Management Systems and ITS	App d-2 (3) worksheet - Row 190	7,226	135	135	138	138	28	28	29
Landscaping, planting, Irrigation and Hardscape	App d-2 (3) worksheet - Row 191	90	-	-	-	-	-	-	-
Lighting	App d-2 (3) worksheet - Row 192	8,788	35	35	36	36	-	-	-
Minor items (including barriers and fencing)	App d-2 (3) worksheet - Row 193	1,176	-	-	-	-	-	-	-
Bridges and Tunnels	App d-2 (3) worksheet - Row 194								
Bridge foundations	App d-2 (3) worksheet - Row 195	-	-	-	-	-	-	-	-
Bridge columns and superstructure (amounts include Tunnel structure costs)	App d-2 (3) worksheet - Row 196	35,006	103	103	105	105	1,424	1,424	1,455
Tunnel structures	App d-2 (3) worksheet - Row 197	-	-	-	-	-	-	-	-
Tunnel Systems	App d-2 (3) worksheet - Row 198								
Tunnel Ventilation Systems	App d-2 (3) worksheet - Row 199	4,139	-	-	-	-	-	-	-
Fire Suppression Systems	App d-2 (3) worksheet - Row 200	1,826	-	-	-	-	-	-	-
Fire Detection and Alarm	App d-2 (3) worksheet - Row 201	-	-	-	-	-	-	-	-
SCADA System (Included in Traffic Management Systems and ITS)	App d-2 (3) worksheet - Row 202	-	-	-	-	-	-	-	-
Electrical System (Included in Roadway Lighting)	App d-2 (3) worksheet - Row 203	-	-	-	-	-	-	-	-
Illumination	App d-2 (3) worksheet - Row 204	9,130	-	-	-	-	-	-	-
Drainage	App d-2 (3) worksheet - Row 205	149	-	-	-	-	12	12	12
Other	App d-2 (3) worksheet - Row 206								
Vehicles and Equipment	App d-2 (3) worksheet - Row 207	-	-	-	-	-	-	-	-
TOTAL	App d-2 (3) worksheet - Row 208	79,650	289	289	296	296	1,500	1,500	1,533

31 Dec 2033 31 Mar 2034 30 Jun 2034 30 Sep 2034 31 Dec 2034 31 Mar 2035 30 Jun 2035

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13. RENEWALS AND REHABILITATION COSTS

Cost Item	Model Reference	Total	Dec 2033	Mar 2034	Jun 2034	Sep 2034	Dec 2034	Mar 2035	Jun 2035
Variable Costs	App d-2 (3) worksheet - Row 181								
Design/Professional Costs	App d-2 (3) worksheet - Row 182	2,239	-	1	1	1	1	2	2
Roadway	App d-2 (3) worksheet - Row 183								
Pavement Mainline - Portland Cement Concrete pavement (including base)	App d-2 (3) worksheet - Row 184	3,672	-	10	10	11	11	8	8
Pavement Mainline - Asphaltic Concrete pavement (including base)	App d-2 (3) worksheet - Row 185	5,483	36	47	47	48	48	38	38
Pavement Ramps	App d-2 (3) worksheet - Row 186	-	-	-	-	-	-	-	-
Pavement Cross Streets	App d-2 (3) worksheet - Row 187	38	-	-	-	-	-	-	-
Drainage	App d-2 (3) worksheet - Row 188	-	-	-	-	-	-	-	-
Signs, Markings and Signalization	App d-2 (3) worksheet - Row 189	688	-	24	24	24	24	-	-
Traffic Management Systems and ITS	App d-2 (3) worksheet - Row 190	7,226	29	86	86	88	88	72	72
Landscaping, planting, Irrigation and Hardscape	App d-2 (3) worksheet - Row 191	90	-	-	-	-	-	-	-
Lighting	App d-2 (3) worksheet - Row 192	8,788	-	179	179	183	183	4	4
Minor items (including barriers and fencing)	App d-2 (3) worksheet - Row 193	1,176	-	-	-	-	-	-	-
Bridges and Tunnels	App d-2 (3) worksheet - Row 194								
Bridge foundations	App d-2 (3) worksheet - Row 195	-	-	-	-	-	-	-	-
Bridge columns and superstructure (amounts include Tunnel structure costs)	App d-2 (3) worksheet - Row 196	35,006	1,455	1,641	1,641	1,677	1,677	1,488	1,488
Tunnel structures	App d-2 (3) worksheet - Row 197	-	-	-	-	-	-	-	-
Tunnel Systems	App d-2 (3) worksheet - Row 198								
Tunnel Ventilation Systems	App d-2 (3) worksheet - Row 199	4,139	-	-	-	-	-	-	-
Fire Suppression Systems	App d-2 (3) worksheet - Row 200	1,826	-	-	-	-	-	-	-
Fire Detection and Alarm	App d-2 (3) worksheet - Row 201	-	-	-	-	-	-	-	-
SCADA System (Included in Traffic Management Systems and ITS)	App d-2 (3) worksheet - Row 202	-	-	-	-	-	-	-	-
Electrical System (Included in Roadway Lighting)	App d-2 (3) worksheet - Row 203	-	-	-	-	-	-	-	-
Illumination	App d-2 (3) worksheet - Row 204	9,130	-	-	-	-	-	-	-
Drainage	App d-2 (3) worksheet - Row 205	149	12	-	-	-	-	-	-
Other	App d-2 (3) worksheet - Row 206								
Vehicles and Equipment	App d-2 (3) worksheet - Row 207	-	-	-	-	-	-	-	-
TOTAL	App d-2 (3) worksheet - Row 208	79,650	1,533	1,989	1,989	2,033	2,033	1,613	1,613

All Checks Are OK
PRESIDIO PARKWAY PROJECT V3.32 (BID MODEL) BASE CASE TIFIA & BOND SOLUTION

30 Sep 2035 31 Dec 2035 31 Mar 2036 30 Jun 2036 30 Sep 2036 31 Dec 2036 31 Mar 2037 30 Jun 2037

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13. RENEWALS AND REHABILITATION COSTS

Cost Item	Model Reference	Total	Sep 2035	Dec 2035	Mar 2036	Jun 2036	Sep 2036	Dec 2036	Mar 2037	Jun 2037
Variable Costs	App d-2 (3) worksheet - Row 181									
Design/Professional Costs	App d-2 (3) worksheet - Row 182	2,239	2	2	21	21	21	21	-	-
Roadway	App d-2 (3) worksheet - Row 183									
Pavement Mainline - Portland Cement Concrete pavement (including base)	App d-2 (3) worksheet - Row 184	3,672	9	9	104	104	106	106	-	-
Pavement Mainline - Asphaltic Concrete pavement (including base)	App d-2 (3) worksheet - Row 185	5,483	39	39	6	6	6	6	-	-
Pavement Ramps	App d-2 (3) worksheet - Row 186	-	-	-	-	-	-	-	-	-
Pavement Cross Streets	App d-2 (3) worksheet - Row 187	38	-	-	-	-	-	-	-	-
Drainage	App d-2 (3) worksheet - Row 188	-	-	-	-	-	-	-	-	-
Signs, Markings and Signalization	App d-2 (3) worksheet - Row 189	688	-	-	-	-	-	-	-	-
Traffic Management Systems and ITS	App d-2 (3) worksheet - Row 190	7,226	73	73	-	-	-	-	-	-
Landscaping, planting, Irrigation and Hardscape	App d-2 (3) worksheet - Row 191	90	-	-	-	-	-	-	-	-
Lighting	App d-2 (3) worksheet - Row 192	8,788	4	4	23	23	24	24	-	-
Minor items (including barriers and fencing)	App d-2 (3) worksheet - Row 193	1,176	-	-	-	-	-	-	-	-
Bridges and Tunnels	App d-2 (3) worksheet - Row 194									
Bridge foundations	App d-2 (3) worksheet - Row 195	-	-	-	-	-	-	-	-	-
Bridge columns and superstructure (amounts include Tunnel structure costs)	App d-2 (3) worksheet - Row 196	35,006	1,521	1,521	80	80	82	82	-	-
Tunnel structures	App d-2 (3) worksheet - Row 197	-	-	-	-	-	-	-	-	-
Tunnel Systems	App d-2 (3) worksheet - Row 198									
Tunnel Ventilation Systems	App d-2 (3) worksheet - Row 199	4,139	-	-	-	-	-	-	-	-
Fire Suppression Systems	App d-2 (3) worksheet - Row 200	1,826	-	-	-	-	-	-	-	-
Fire Detection and Alarm	App d-2 (3) worksheet - Row 201	-	-	-	-	-	-	-	-	-
SCADA System (Included in Traffic Management Systems and ITS)	App d-2 (3) worksheet - Row 202	-	-	-	-	-	-	-	-	-
Electrical System (Included in Roadway Lighting)	App d-2 (3) worksheet - Row 203	-	-	-	-	-	-	-	-	-
Illumination	App d-2 (3) worksheet - Row 204	9,130	-	-	-	-	-	-	-	-
Drainage	App d-2 (3) worksheet - Row 205	149	-	-	-	-	-	-	-	-
Other	App d-2 (3) worksheet - Row 206									
Vehicles and Equipment	App d-2 (3) worksheet - Row 207	-	-	-	-	-	-	-	-	-
TOTAL	App d-2 (3) worksheet - Row 208	79,650	1,648	1,648	234	234	239	239	-	-

All Checks Are OK
PRESIDIO PARKWAY PROJECT V3.32 (BID MODEL) BASE CASE TIFIA & BOND SOLUTION

30 Sep 2037 31 Dec 2037 31 Mar 2038 30 Jun 2038 30 Sep 2038 31 Dec 2038 31 Mar 2039 30 Jun 2039

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13. RENEWALS AND REHABILITATION COSTS

Cost Item	Model Reference	Total	Sep 2037	Dec 2037	Mar 2038	Jun 2038	Sep 2038	Dec 2038	Mar 2039	Jun 2039
Variable Costs	App d-2 (3) worksheet - Row 181									
Design/Professional Costs	App d-2 (3) worksheet - Row 182	2,239	-	-	78	78	79	79	5	5
Roadway	App d-2 (3) worksheet - Row 183									
Pavement Mainline - Portland Cement Concrete pavement (including base)	App d-2 (3) worksheet - Row 184	3,672	-	-	50	50	52	52	20	20
Pavement Mainline - Asphaltic Concrete pavement (including base)	App d-2 (3) worksheet - Row 185	5,483	-	-	27	27	27	27	20	20
Pavement Ramps	App d-2 (3) worksheet - Row 186	-	-	-	-	-	-	-	-	-
Pavement Cross Streets	App d-2 (3) worksheet - Row 187	38	-	-	-	-	-	-	-	-
Drainage	App d-2 (3) worksheet - Row 188	-	-	-	-	-	-	-	-	-
Signs, Markings and Signalization	App d-2 (3) worksheet - Row 189	688	-	-	-	-	-	-	23	23
Traffic Management Systems and ITS	App d-2 (3) worksheet - Row 190	7,226	-	-	154	154	158	158	110	110
Landscaping, planting, Irrigation and Hardscape	App d-2 (3) worksheet - Row 191	90	-	-	-	-	-	-	-	-
Lighting	App d-2 (3) worksheet - Row 192	8,788	-	-	506	506	517	517	-	-
Minor items (including barriers and fencing)	App d-2 (3) worksheet - Row 193	1,176	-	-	-	-	-	-	-	-
Bridges and Tunnels	App d-2 (3) worksheet - Row 194									
Bridge foundations	App d-2 (3) worksheet - Row 195	-	-	-	-	-	-	-	-	-
Bridge columns and superstructure (amounts include Tunnel structure costs)	App d-2 (3) worksheet - Row 196	35,006	-	-	315	315	322	322	53	53
Tunnel structures	App d-2 (3) worksheet - Row 197	-	-	-	-	-	-	-	-	-
Tunnel Systems	App d-2 (3) worksheet - Row 198									
Tunnel Ventilation Systems	App d-2 (3) worksheet - Row 199	4,139	-	-	-	-	-	-	-	-
Fire Suppression Systems	App d-2 (3) worksheet - Row 200	1,826	-	-	-	-	-	-	-	-
Fire Detection and Alarm	App d-2 (3) worksheet - Row 201	-	-	-	-	-	-	-	-	-
SCADA System (Included in Traffic Management Systems and ITS)	App d-2 (3) worksheet - Row 202	-	-	-	-	-	-	-	-	-
Electrical System (Included in Roadway Lighting)	App d-2 (3) worksheet - Row 203	-	-	-	-	-	-	-	-	-
Illumination	App d-2 (3) worksheet - Row 204	9,130	-	-	-	-	-	-	-	-
Drainage	App d-2 (3) worksheet - Row 205	149	-	-	-	-	-	-	-	-
Other	App d-2 (3) worksheet - Row 206									
Vehicles and Equipment	App d-2 (3) worksheet - Row 207	-	-	-	-	-	-	-	-	-
TOTAL	App d-2 (3) worksheet - Row 208	79,650	-	-	1,130	1,130	1,155	1,155	231	231

All Checks Are OK
PRESIDIO PARKWAY PROJECT V3.32 (BID MODEL) BASE CASE TIFIA & BOND SOLUTION

30 Sep 2039 31 Dec 2039 31 Mar 2040 30 Jun 2040 30 Sep 2040 31 Dec 2040 31 Mar 2041 30 Jun 2041

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Operation Operation Operation Operation Operation Operation Operation Operation

13. RENEWALS AND REHABILITATION COSTS

Cost Item	Model Reference	Total	Sep 2039	Dec 2039	Mar 2040	Jun 2040	Sep 2040	Dec 2040	Mar 2041	Jun 2041
Variable Costs	App d-2 (3) worksheet - Row 181									
Design/Professional Costs	App d-2 (3) worksheet - Row 182	2,239	5	5	39	39	40	40	2	2
Roadway	App d-2 (3) worksheet - Row 183									
Pavement Mainline - Portland Cement Concrete pavement (including base)	App d-2 (3) worksheet - Row 184	3,672	20	20	-	-	-	-	10	10
Pavement Mainline - Asphaltic Concrete pavement (including base)	App d-2 (3) worksheet - Row 185	5,483	20	20	205	205	209	209	0	0
Pavement Ramps	App d-2 (3) worksheet - Row 186	-	-	-	-	-	-	-	-	-
Pavement Cross Streets	App d-2 (3) worksheet - Row 187	38	-	-	-	-	-	-	-	-
Drainage	App d-2 (3) worksheet - Row 188	-	-	-	-	-	-	-	-	-
Signs, Markings and Signalization	App d-2 (3) worksheet - Row 189	688	23	23	-	-	-	-	-	-
Traffic Management Systems and ITS	App d-2 (3) worksheet - Row 190	7,226	113	113	-	-	-	-	-	-
Landscaping, planting, Irrigation and Hardscape	App d-2 (3) worksheet - Row 191	90	-	-	-	-	-	-	-	-
Lighting	App d-2 (3) worksheet - Row 192	8,788	-	-	25	25	26	26	5	5
Minor items (including barriers and fencing)	App d-2 (3) worksheet - Row 193	1,176	-	-	-	-	-	-	-	-
Bridges and Tunnels	App d-2 (3) worksheet - Row 194									
Bridge foundations	App d-2 (3) worksheet - Row 195	-	-	-	-	-	-	-	-	-
Bridge columns and superstructure (amounts include Tunnel structure costs)	App d-2 (3) worksheet - Row 196	35,006	54	54	90	90	92	92	0	0
Tunnel structures	App d-2 (3) worksheet - Row 197	-	-	-	-	-	-	-	-	-
Tunnel Systems	App d-2 (3) worksheet - Row 198									
Tunnel Ventilation Systems	App d-2 (3) worksheet - Row 199	4,139	-	-	-	-	-	-	-	-
Fire Suppression Systems	App d-2 (3) worksheet - Row 200	1,826	-	-	-	-	-	-	-	-
Fire Detection and Alarm	App d-2 (3) worksheet - Row 201	-	-	-	-	-	-	-	-	-
SCADA System (Included in Traffic Management Systems and ITS)	App d-2 (3) worksheet - Row 202	-	-	-	-	-	-	-	-	-
Electrical System (Included in Roadway Lighting)	App d-2 (3) worksheet - Row 203	-	-	-	-	-	-	-	-	-
Illumination	App d-2 (3) worksheet - Row 204	9,130	-	-	-	-	-	-	-	-
Drainage	App d-2 (3) worksheet - Row 205	149	-	-	-	-	-	-	-	-
Other	App d-2 (3) worksheet - Row 206									
Vehicles and Equipment	App d-2 (3) worksheet - Row 207	-	-	-	-	-	-	-	-	-
TOTAL	App d-2 (3) worksheet - Row 208	79,650	236	236	359	359	367	367	17	17

All Checks Are OK
PRESIDIO PARKWAY PROJECT V3.32 (BID MODEL) BASE CASE TIFIA & BOND SOLUTION

30 Sep 2041 31 Dec 2041 31 Mar 2042 30 Jun 2042 30 Sep 2042 31 Dec 2042 31 Mar 2043

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OUTOUTS - APPENDIX D-2 (3)

13. RENEWALS AND REHABILITATION COSTS

Cost Item	Model Reference	Total	Sep 2041	Dec 2041	Mar 2042	Jun 2042	Sep 2042	Dec 2042	Mar 2043
Variable Costs	App d-2 (3) worksheet - Row 181								
Design/Professional Costs	App d-2 (3) worksheet - Row 182	2,239	2	2	165	165	169	169	75
Roadway	App d-2 (3) worksheet - Row 183								
Pavement Mainline Portland Cement Concrete pavement (including base)	App d-2 (3) worksheet - Row 184	3,672	10	10	438	438	447	447	-
Pavement Mainline Asphaltic Concrete pavement (including base)	App d-2 (3) worksheet - Row 185	5,483	0	0	481	481	492	492	43
Pavement Ramps	App d-2 (3) worksheet - Row 186	-	-	-	-	-	-	-	-
Pavement Cross Streets	App d-2 (3) worksheet - Row 187	38	-	-	-	-	-	-	-
Drainage	App d-2 (3) worksheet - Row 188	-	-	-	-	-	-	-	-
Signs, Markings and Signalization	App d-2 (3) worksheet - Row 189	688	-	-	-	-	-	-	43
Traffic Management Systems and ITS	App d-2 (3) worksheet - Row 190	7,226	-	-	56	56	58	58	247
Landscaping, planting, Irrigation and Hardscape	App d-2 (3) worksheet - Row 191	90	-	-	-	-	-	-	-
Lighting	App d-2 (3) worksheet - Row 192	8,788	5	5	213	213	218	218	-
Minor items (including barriers and fencing)	App d-2 (3) worksheet - Row 193	1,176	-	-	100	100	102	102	80
Bridges and Tunnels	App d-2 (3) worksheet - Row 194								
Bridge foundations	App d-2 (3) worksheet - Row 195	-	-	-	-	-	-	-	-
Bridge columns and superstructure (amounts include Tunnel structure costs)	App d-2 (3) worksheet - Row 196	35,006	0	0	197	197	201	201	43
Tunnel structures	App d-2 (3) worksheet - Row 197	-	-	-	-	-	-	-	-
Tunnel Systems	App d-2 (3) worksheet - Row 198								
Tunnel Ventilation Systems	App d-2 (3) worksheet - Row 199	4,139	-	-	334	334	341	341	341
Fire Suppression Systems	App d-2 (3) worksheet - Row 200	1,826	-	-	147	147	150	150	150
Fire Detection and Alarm	App d-2 (3) worksheet - Row 201	-	-	-	-	-	-	-	-
SCADA System (Included in Traffic Management Systems and ITS)	App d-2 (3) worksheet - Row 202	-	-	-	-	-	-	-	-
Electrical System (Included in Roadway Lighting)	App d-2 (3) worksheet - Row 203	-	-	-	-	-	-	-	-
Illumination	App d-2 (3) worksheet - Row 204	9,130	-	-	736	736	752	752	752
Drainage	App d-2 (3) worksheet - Row 205	149	-	-	-	-	-	-	15
Other	App d-2 (3) worksheet - Row 206								
Vehicles and Equipment	App d-2 (3) worksheet - Row 207	-	-	-	-	-	-	-	-
TOTAL	App d-2 (3) worksheet - Row 208	79,650	18	18	2,867	2,867	2,930	2,930	1,789

All Checks Are OK
PRESIDIO PARKWAY PROJECT V3.32 (BID MODEL) BASE CASE TIFIA & BOND SOLUTION

30 Jun 2043 30 Sep 2043 31 Dec 2043 31 Mar 2044 30 Jun 2044 30 Sep 2044 31 Dec 2044
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13. RENEWALS AND REHABILITATION COSTS

Cost Item	Model Reference	Total	Jun 2043	Sep 2043	Dec 2043	Mar 2044	Jun 2044	Sep 2044	Dec 2044
Variable Costs	App d-2 (3) worksheet - Row 181								
Design/Professional Costs	App d-2 (3) worksheet - Row 182	2,239	75	77	77	9	9	10	10
Roadway	App d-2 (3) worksheet - Row 183								
Pavement Mainline □ Portland Cement Concrete pavement (including base)	App d-2 (3) worksheet - Row 184	3,672	-	-	-	47	47	48	48
Pavement Mainline □ Asphaltic Concrete pavement (including base)	App d-2 (3) worksheet - Row 185	5,483	43	44	44	88	88	90	90
Pavement Ramps	App d-2 (3) worksheet - Row 186	-	-	-	-	-	-	-	-
Pavement Cross Streets	App d-2 (3) worksheet - Row 187	38	-	-	-	-	-	-	-
Drainage	App d-2 (3) worksheet - Row 188	-	-	-	-	-	-	-	-
Signs, Markings and Signalization	App d-2 (3) worksheet - Row 189	688	43	44	44	29	29	30	30
Traffic Management Systems and ITS	App d-2 (3) worksheet - Row 190	7,226	247	252	252	434	434	444	444
Landscaping, planting, Irrigation and Hardscape	App d-2 (3) worksheet - Row 191	90	-	-	-	-	-	-	-
Lighting	App d-2 (3) worksheet - Row 192	8,788	-	-	-	46	46	47	47
Minor items (including barriers and fencing)	App d-2 (3) worksheet - Row 193	1,176	80	82	82	-	-	-	-
Bridges and Tunnels	App d-2 (3) worksheet - Row 194								
Bridge foundations	App d-2 (3) worksheet - Row 195	-	-	-	-	-	-	-	-
Bridge columns and superstructure (amounts include Tunnel structure costs)	App d-2 (3) worksheet - Row 196	35,006	43	44	44	1,766	1,766	1,805	1,805
Tunnel structures	App d-2 (3) worksheet - Row 197	-	-	-	-	-	-	-	-
Tunnel Systems	App d-2 (3) worksheet - Row 198								
Tunnel Ventilation Systems	App d-2 (3) worksheet - Row 199	4,139	341	349	349	349	349	356	356
Fire Suppression Systems	App d-2 (3) worksheet - Row 200	1,826	150	154	154	154	154	157	157
Fire Detection and Alarm	App d-2 (3) worksheet - Row 201	-	-	-	-	-	-	-	-
SCADA System (Included in Traffic Management Systems and ITS)	App d-2 (3) worksheet - Row 202	-	-	-	-	-	-	-	-
Electrical System (Included in Roadway Lighting)	App d-2 (3) worksheet - Row 203	-	-	-	-	-	-	-	-
Illumination	App d-2 (3) worksheet - Row 204	9,130	752	769	769	769	769	786	786
Drainage	App d-2 (3) worksheet - Row 205	149	15	15	15	-	-	-	-
Other	App d-2 (3) worksheet - Row 206								
Vehicles and Equipment	App d-2 (3) worksheet - Row 207	-	-	-	-	-	-	-	-
TOTAL	App d-2 (3) worksheet - Row 208	79,650	1,789	1,829	1,829	3,691	3,691	3,772	3,772

