



**DRAFT MITIGATION MONITORING AND REPORTING PROGRAM  
 FOR STANISLAUS ELEMENTARY SCHOOL 1,2,3-TCP MITIGATION PROJECT**

The following is a Mitigation Monitoring and Reporting Program (MMRP) for Stanislaus Elementary School 1,2,3-TCP Mitigation Project located in Modesto, and Unincorporated Stanislaus County, California. This MMRP has been prepared pursuant to Section 15097 of the CEQA Guidelines and Section 21081.6 of the Public Resources Code. This MMRP lists all applicable Project Mitigation Measures (MM), Standard Conditions (SC), and environmental commitments for executing Best Management Practices provided by the Project Applicant that are required to be implemented with the Project under existing Plans, Programs, and Policies for environmental resource protection. This MMRP includes implementation timing and responsible party to ensure proper enforcement of all MMs to reduce Project impacts. The City of Modesto, as the Lead Agency, will utilize the MMRP to document the implementation of Project mitigation and BMP environmental commitments, which ensure all project impacts are reduced to less than significance pursuant to The California Environmental Quality Act (CEQA).

Issue	Potentially Significant Impact reduced to Less than Significant with Mitigation Incorporated	Recommended Mitigation Measure	Timing	Responsible Party	Date Completed and Initials
Aesthetics	d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?	<b>MM AES-01: Construction Lighting Plan-</b> Prior to Project approval, the City of Modesto Utilities Department shall verify that Plans and Specifications for the Project show temporary lighting measures prior to and throughout nighttime construction activities (dusk to dawn) which minimize lighting on adjacent parcels. Plans and Specifications for the Project shall include directing light sources away from residential properties and structures that may be occupied on a 24-hour basis such as hotels. City inspectors shall verify that uplighting is minimized to the maximum extent by angling light sources down and fitting light sources with covered bulbs, shields, and dimmers and temporary boundary fencing around active areas of construction throughout the duration of nighttime construction.	Prior to start of construction and throughout construction	City Engineer, Project contractor, and City inspectors	Initials: _____ Date: _____
		<b>MM AES-02: Coordination with Private Landowners-</b> At least four (4) weeks prior to the start of construction, the City and the contractor shall coordinate with private owners and obtain written landowner approval for construction activities on private property in the form of a signature on the plan sheet showing the proposed work. Restoration work on private property shall be agreed upon approved by the landowner and the City in advance of construction. Restoration shall be certified by the landowner and the City upon completion as adequately meeting the City's private landowner's requirements.	At least four (4) weeks prior to the start of construction and upon completion of construction	The City of Modesto Engineering Department, Project Contractor	Initials: _____ Date: _____
Agriculture and Forestry Resources	b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?	<b>MM AG-01: Buffer and Setback Guidelines-</b> Throughout Project construction and earthworks, the City Inspectors shall verify that Project contractor incorporates and implements the following measures where portions of the	Throughout Project	City inspectors and Project contractor	Initials: _____



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		<p>Project Alignment and the adjoining agricultural operation share a common parcel line:</p> <ul style="list-style-type: none"> <li>- <b>Buffer:</b> Establish a 6-foot-high chain link fence with a shade cloth between construction activities within the public right-of-way and agricultural land uses;</li> <li>- <b>Refuse Disposal and Containers:</b> Refuse containers with fastened lids shall be placed and used in areas of active construction and staging. Refuse containers shall be emptied and the refuse removed from the construction areas and disposed of off-site at an appropriate disposal site at the end of each day.</li> <li>- <b>Site Inspections:</b> At the beginning and end of each day, the Project contractor shall conduct a site inspection so that all debris is removed from the Project Site.</li> </ul>	<p>construction and earthworks.</p>		<p>Date: _____</p>
		<p>See Mitigation Measure <b>MM HYDRO-02: Stormwater BMPs throughout Project Construction.</b></p>	<p>Prior to Project construction and the issuance of building permits.</p>	<p>City of Modesto Engineering Department, Project Contractor</p>	<p>Initials: _____ Date: _____</p>
<p><b>Air Quality</b></p>	<p>a) Conflict with or obstruct implementation of the applicable air quality plan?</p>	<p><b>MM AQ-01: Dust Control and Construction Emissions-</b> Throughout Project construction the contractor shall implement appropriate dust control best management practices, such as regular sweeping of track-out areas, covered haul loads and cover stockpiles, as well as check equipment idling so that equipment that is not actively in use is not left idling more than 5 minutes.</p>			
<p><b>Biological Resources</b></p> <p><b>Biological Resources</b></p>	<p>a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?</p>	<p><b>MM BIO-01: Pre-construction Bird and Wildlife Clearance Surveys, Training, Monitoring, and Inspections</b></p> <p>a) Migratory Birds and Birds of Prey Survey and Report: Pre-construction clearance surveys shall be conducted fifteen (15) days and three (3) days prior to construction, for nesting migratory birds, raptors, and birds of prey, by the City’s Qualified Biologist. A negative survey report from the City’s Qualified Biologist shall be on file with the City prior to the start of any vegetation removal or ground disturbing activities so that no nesting birds, including birds of prey or raptors, will be disturbed during construction. The City’s Biologist conducting the clearance survey should document a</p>	<p>Three days prior to Project construction if Project activities occur between February 1<sup>st</sup> and August 31<sup>st</sup>.</p>	<p>Project Biologist, City of Modesto Engineering Department</p>	<p>Initials: _____ Date: _____</p>



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	<p>a) Continued...</p>	<p>negative survey with a brief letter report indicating that no impacts to active avian nests will occur and copies of the report kept on file in the construction management office for the Project and at City Hall. If there is a lapse in construction longer than 7 days, pre-construction surveys and reports shall be repeated by the City's Qualified Biologist and kept on file with the City and construction management office.</p> <p>b) Crew Training: Crew training shall be provided by the City's Qualified Biologist prior to construction to inform construction staff of the types of birds and wildlife that may be encountered during construction and the appropriate next steps that should be taken to avoid take.</p> <p>c) Active Nests: If an active avian nest is discovered, construction activities should stay outside of a no-disturbance buffer established by the City's Qualified Biologist. The size of the no-disturbance buffer will be determined by the City's Qualified Biologist and will depend on the level of noise and/or surrounding anthropogenic disturbances, line of sight between the nest and the construction activity, type and duration of construction activity, ambient noise, species habituation, and topographical barriers. These factors will be evaluated on a case-by-case basis when developing buffer distances. Limits of construction to avoid an active nest will be established and installed by the City's Qualified Biologist in the field with flagging, fencing, or other appropriate barriers; and construction personnel will be instructed on the sensitivity of nest areas.</p> <p>d) Monitoring and Inspections: The contractor shall inspect construction and materials staging/stockpiles daily at the start and end of each day for wildlife and verify that storage areas are covered and secured, and that debris/refuse is removed from the job site daily. If wildlife is encountered within construction and staging areas, the contractor shall immediately contact the City's Qualified Biologist to determine and implement appropriate handling, establishment of a buffer, and next steps for passive relocation and entrapment prevention. A Qualified Biological monitor should be present to</p>			



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		<p>delineate the boundaries of buffer areas and to monitor any type of wildlife present near construction so that active nests, protected species, and nesting behavior are not adversely affected by the construction activity. Once the young have fledged and left the nest, or the nest otherwise becomes inactive or wildlife is protected under natural conditions, construction activities within the buffer area can occur. If wildlife is encountered within construction areas or within buffers, the City's Qualified Biologist shall be immediately notified to determine and implement the appropriate next steps.</p> <p><b>MM BIO-02: Swainson's hawk:</b></p> <p>a) Swainson's hawk: Prior to start of construction, a preconstruction Swainson's Hawk survey shall be conducted within a minimum of a half-mile radius around the Project in accordance with the five-period schedule, provided by the Swainson's Hawk Technical Advisory Committee, as follows:</p> <ul style="list-style-type: none"> <li>• January to March 20- One (1) Survey, All Day</li> <li>• March 20 to April 5- Three (3) Surveys, Sunrise to 1000 / 1600 to Sunset</li> <li>• April 5 to April 20- Three (3) Surveys, Sunrise to 1200 / 1630 to Sunset</li> <li>• April 21 to June 10- Monitoring</li> <li>• June 10 to July 30- Three (3) Surveys, Sunrise to 1200 / 1600 to Sunset</li> </ul> <p>b) Swainson's hawk Nests: If an occupied nest of the SWHA is found and may be impacted by construction, the City's Biologist should consult with CDFW and demonstrate compliance with CESA. In addition, the City's Biologist shall establish an adequate buffer between construction activities and the active nests that will prevent disruption of the nests until the young have fledged the nests.</p>			
<b>Cultural Resources</b>	b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to § 15064.5?	<b>MM CUL-01: Worker Environmental Awareness Training (WEAP).</b> Prior to the initiation of ground-disturbing activities, the City shall hire a Qualified Archaeologist according U.S. Secretary of the Interior Professional	Prior to the initiation of ground-	City of Modesto Engineering Department,	Initials: _____



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Cultural Resources	b) Continued...	<p>Qualifications Standards for Archaeology to write and prepare a WEAP training program. The City may provide personnel to deliver the WEAP training to field personnel regarding archaeological resources and the possibility of buried prehistoric or historic cultural deposits. If any subsurface cultural resources are encountered during Project construction activities within 50 feet of the encounter shall be halted and the City and the City's qualified archeologist shall be called to examine these materials, determine their significance, and implement the appropriate next steps such as:</p> <ul style="list-style-type: none"> <li>a) Preservation in place, or</li> <li>b) Excavation, recovery, and curation by qualified professionals.</li> </ul>	disturbing activities.	Project Archeologist, Field personnel, Project contractor	Date: _____
		<p><b>MM CUL-02: Cultural Resources Discovery.</b> In the event that field personnel encounter buried cultural materials, work in the immediate vicinity of the find should cease and a qualified archaeologist shall be called to assess the significance of the find. The qualified archaeologist shall have the authority to stop or divert construction excavation as necessary. If the qualified archaeologist finds that any cultural resources present meet eligibility requirements for listing on the California Register or the National Register, plans for the treatment, evaluation, and mitigation of impacts to the find will need to be developed. Prehistoric or historic cultural materials that may be encountered during ground-disturbing activities include:</p> <ul style="list-style-type: none"> <li>- historic artifacts such as glass bottles and fragments, cans, nails, ceramic and pottery fragments, and other metal objects;</li> <li>- historic structural or building foundations, walkways, cisterns, pipes, privies, and other structural elements;</li> <li>- prehistoric flaked-stone artifacts and debitage (waste material), consisting of obsidian, basalt, and or cryptocrystalline silicates;</li> <li>- groundstone artifacts, including mortars, pestles, and grinding slabs;</li> <li>- dark, greasy soil that may be associated with charcoal, ash, bone, shell, flaked stone, groundstone, and fire affected rocks.</li> </ul>	Throughout construction	City of Modesto Engineering Department, Contractor, Project Archeologist	Initials: _____ Date: _____
	c) Disturb any human remains, including those interred outside of dedicated cemeteries?	<b>MM CUL-03: Human Remains:</b> If human remains are encountered during the undertaking, State Health and Safety Code Section 7050.5 states that no disturbance shall occur until the County Coroner has made a determination of origin and disposition pursuant to Public Resources Code Section 5097.98.	Throughout Construction	Contractor, County Coroner, City of Modesto	Initials: _____ Date: _____



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		<p>The County Coroner must be notified of the find immediately. If the remains are determined to be prehistoric, the Coroner will notify the Native American Heritage Commission (NAHC), which will determine and notify a Most Likely Descendant (MLD). With the permission of the landowner or his/her authorized representative, the MLD may inspect the site of the discovery. The MLD shall complete the inspection within 48 hours of notification by the NAHC.</p>		Engineering Department	
Energy	a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during Project construction or operation?	<p><b>MM EN-01: Idling Regulation for On-Road Diesel-Fueled Equipment.</b> Throughout Project construction, on-road diesel-fueled equipment weighing more than 10,000 pounds must comply with California Air Resources Board (CARB) adopted idling regulation which states that heavy duty vehicles are prohibited from idling more than five (5) minutes in any one location. This regulation will be enforced throughout Project construction by the Project contractor and inspections by the City of Modesto Engineering Department and/or Utilities Department.</p>	Throughout Project construction	Project contractor, City Inspector	Initials: _____  Date: _____
Geology and Soils	b) Result in substantial soil erosion or the loss of topsoil?	<p><b>MM GEO-01: Site Clearing.</b> Prior to site grading, the Contractor shall clear all construction areas of existing structures including all asphalt concrete pavements, rubble, deleterious debris, if any, and any other surface and subsurface items designated for removal to expose undisturbed firm and stable native soils. This work shall be verified by the City Inspector. Where practical, the clearing should extend a minimum of five feet beyond the limits of the proposed structure areas of the site. Existing underground utilities to be abandoned should be completely removed, including existing trench backfill. Depressions from removal of underground structures (e.g., foundations, utilities, etc.) should be cleaned of loose soil and properly backfilled pursuant to <b>MM GEO-10: Utility Trench Backfill.</b></p>	Prior to site grading.	Geotechnical Engineer, Project contractor, City of Modesto Engineering Department	Initials: _____  Date: _____
Geology and Soils	b) Continued...	<p><b>MM GEO-02: Stripping.</b> After completion of clearing operations, the Contractor shall remove any remaining vegetation and organically contaminated topsoil should be removed by stripping. Materials from stripping may be stockpiled for later use or disposed of off-site and should not be used in general fill construction, but may be used in non-structural areas, provided they are kept at least five feet from structural areas, moisture conditions and compacted. Compliance shall be verified by the City or County Inspector.</p>	Upon clearing operations.	Geotechnical Engineer, Project contractor, City of Modesto Engineering Department	Initials: _____  Date: _____



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<p><b>Geology and Soils</b></p>	<p>b) Continued...</p>	<p><b>MM GEO-03: Discing.</b> Depending on site conditions and quantity of organics at time of grading, discing may be suitable in lieu of stripping. However, the decision must be made by a licensed Geotechnical Engineer at the time of earthwork construction. Discing operation, if approve, should be observed by the Geotechnical Engineer’s representative and be continuous until the organics are adequately mixed into the surface soils to provide a compactable mixture of soil containing minor amounts of organic matter. Pockets or concentrations of organics will not be allowed. Compliance shall be verified by the Inspector.</p>	<p>Throughout Project construction.</p>	<p>Geotechnical Engineer, Project contractor, City of Modesto Engineering Department</p>	<p>Initials: _____ Date: _____</p>
		<p><b>MM GEO- 04: Aeration for Soils with High Moisture Content.</b> Upon the discovery of high moisture content within subgrade soils and excavated soils, considerable aeration to reach a moisture content that will permit the specified degree of compaction to be achieved shall be implemented by the Contractor and verified by Inspector. Aeration may include deep ripping to the top of the hardpan, mixing wetter soils with drier soils onsite, and/or windrows to dry the existing subgrade soils and the Project schedule should allow for adequate drying of the subgrade to achieve compactable moisture content.</p>	<p>Upon the discovery of high moisture content within subgrade soils and excavated soils.</p>	<p>Geotechnical Engineer, Project contractor, City of Modesto Engineering Department</p>	<p>Initials: _____ Date: _____</p>
		<p><b>MM GEO-05: Existing Pavement.</b> Existing Pavement and flatworks (asphalt concrete and concrete) that are not incorporated into the new design should be broken up and removed from the site. Alternatively, pulverized asphalt and Portland cement concrete rubble may be used as fill by the Contractor as verified by the Inspector provided it is processes into fragments less than three inches in largest dimension, is mixed with soil or aggregate base to form a compactable mixture, and its use is approved by the Owner.</p>	<p>Throughout Project construction.</p>	<p>Geotechnical Engineer, Project contractor, City of Modesto Engineering Department</p>	<p>Initials: _____ Date: _____</p>
		<p><b>MM GEO-06: Scarification and Compaction.</b> Compaction of all subgrade soils should be performed using a heavy, self-propelled, sheepsfoot compactor capable of achieving the required compaction and must be performed by the Contractor in the presence of the Geotechnical Engineers’ representative. It is recommended that construction bid documents contain unit price (price per cubic pard) for additional excavation due to unstable wet soil or the presence of unsuitable materials and replacement with engineered fill.</p>	<p>Throughout Project construction.</p>	<p>Geotechnical Engineer, Project contractor, City of Modesto Engineering Department</p>	<p>Initials: _____ Date: _____</p>



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<b>Geology and Soils</b>	b) Continued...	<p><b>MM GEO-07: Engineered Fill Construction.</b> If imported fill materials are required for the Project, imported fill materials should be granular materials with a Plasticity Index of 15 or less; an expansion Index of 20 or less; an organic content less than four percent; do not contain particles greater than three inches in maximum dimension, and shall be within a compactable moisture content. The Geotechnical Engineer must approve the imported fill three days prior to being transported on the Project Site and the contract must have appropriate documentation that the imported fill is clean of known contamination per DTSC and within acceptable corrosion limits.</p>	If fill materials are required for the Project.	Geotechnical Engineer, Project contractor, City of Modesto Engineering Department	Initials: _____ Date: _____
		<p><b>MM GEO-08: Excavation and Fill Slopes.</b> Permanent excavation and fill slopes should be constructed by the Contractor and verified by the Inspector as no steeper than two horizontals to one vertical (2H:1V) and should be vegetated as soon as practical following grading to minimize erosion in addition to the implementation of the following erosion control measures pursuant to <b>MM HYDRO-01: Local SWPPP</b> and <b>MM HYDRO-02: Stormwater BMPs Throughout Project Construction.</b></p>	Throughout Project construction.	Geotechnical Engineer, Project contractor, City of Modesto Engineering Department	Initials: _____ Date: _____
		<p><b>MM GEO-09: Monitoring during Excavation.</b> Throughout earthworks and excavation activities, the Geotechnical Engineer's representative shall be present on a regular basis during all earthwork operations to observe and test the engineered fill and to verify compliance with Geotechnical Engineer recommendations as well as Project plans and specifications.</p>	Throughout Project construction.	Geotechnical Engineer, Project contractor, City of Modesto Engineering Department	Initials: _____ Date: _____
		<p><b>MM GEO-10: Utility Trench Backfill.</b> Utility trench backfill shall be mechanically compacted by the Contractor and verified by the Inspector as engineered fill. Bedding and initial backfill around and over the pipe should conform to the pipe manufacturers recommendations for the pipe materials selected and applicable sections of the governing agency standards. On-site soils shall be used as trench backfill. Utility backfills should be placed in thin lift, thoroughly moisture conditioned to at least the optimum moisture content, and compacted to at least 90 percent of the maximum dry density as determined by ASTM D1557. Within the upper six inches of pavement subgrade soil compaction of untreated soils should be increased to at least 95 percent relative compaction at less than the optimum moisture content. The lift thickness will depend on the type of compaction equipment used to backfill utility trenches.</p>	Throughout Project construction.	Geotechnical Engineer, Project contractor, City of Modesto Engineering Department	Initials: _____ Date: _____





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<b>Geology and Soils</b>	b) Continued...	<p><b>MM GEO-11: Pavement Design.</b> New pavements should match adjacent pavement sections and be constructed in accordance with design requirements of the applicable jurisdiction, Kiernan Avenue (CalTrans) Tully Road (County of Stanislaus) Dale Road (City of Modesto). Recommended construction per the Project Geotechnical Engineer is as follows:</p> <p style="text-align: center;">PAVEMENT DESIGN ALTERNATIVES</p> <table border="1" data-bbox="659 506 1394 823"> <thead> <tr> <th rowspan="2">Traffic Index (TI)</th> <th rowspan="2">Pavement Use</th> <th colspan="2">Pavement Subgrades R-value= 40</th> </tr> <tr> <th>Type A Asphalt Concrete (inches)</th> <th>Class 2 Aggregate Base (inches)</th> </tr> </thead> <tbody> <tr> <td>4.5</td> <td>Automobile Parking</td> <td>2 ½ *</td> <td>4.0</td> </tr> <tr> <td rowspan="2">6.0</td> <td rowspan="2">Entry-Exit Drives, Truck Traffic and Fire Lanes</td> <td>3</td> <td>7.0</td> </tr> <tr> <td>3 ½ *</td> <td>6.0</td> </tr> </tbody> </table> <p>Notes: *= Asphalt concrete thickness includes CALTRANS factor for safety.</p> <p>The upper six inches of pavement subgrade soils should be compacted to at least 95 percent relative compaction at no less than the optimum moisture content (ASTM D1577). Pavement subgrades should be proof-rolled with a fully loaded, water truck to placement of aggregate base to identify soft/unstable areas that may require removal and re-compaction. In addition, there should be at least six inches of PCC pavement in areas subject to heavy wheel loading; and supported on at least four inches of compacted Class 2 aggregate base on the prepared subgrade.</p>	Traffic Index (TI)	Pavement Use	Pavement Subgrades R-value= 40		Type A Asphalt Concrete (inches)	Class 2 Aggregate Base (inches)	4.5	Automobile Parking	2 ½ *	4.0	6.0	Entry-Exit Drives, Truck Traffic and Fire Lanes	3	7.0	3 ½ *	6.0	Upon the implementation of new pavement.	Geotechnical Engineer, Project contractor, City of Modesto Engineering Department	Initials: _____ Date: _____
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Type A Asphalt Concrete (inches)			Class 2 Aggregate Base (inches)																		
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	f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	<p><b>MM PALEO-01: Paleontological Monitoring.</b> Prior to the initiation of earthworks and ground distributing activities, the City of Modesto Utilities Department is responsible for hiring a qualified paleontologist and developing a paleontological resource mitigation program that will be put in place to monitor, salvage, and curate any recovered fossils from the study area. The City Utilities Department will verify that paleontological monitoring is implemented during earthwork in native soils.</p>	Prior to the initiation of earthworks and ground disturbing activities.	City of Modesto Utilities Department, Project contractor	Initials: _____ Date: _____																



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Hazards and Hazardous Materials	b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?	<b>MM HAZ-01: Coordination with Stanislaus Union School District.</b> Prior to start of Project construction, the Contractor shall provide the construction schedule to the Stanislaus Union School District, specifically Stanislaus Elementary School so that construction occurs when the school site is not in use. The contractor shall coordinate with the school district on an ongoing basis during construction and shall keep records of this coordination at the Project Site for review by the grading and building inspectors. sufficiently strong and well enough anchored to prevent the introduction of foreign material into the well and to protect the public from a potentially hazardous situation.	Prior to start of construction and ongoing during construction	Project contractor	Initials: _____ Date: _____
Hazards and Hazardous Materials	b) Continued...	<b>MM HAZ-02: Hazardous Materials Manifest and Plan.</b> Prior to the issuance of permits, the contractor shall provide a manifest of construction materials and a plan for proper handling, disposal, contingency, and emergency response to the City of Modesto Engineering Department, Stanislaus Consolidated Fire Protection District, and Stanislaus County for verification of adequate contingency measures for storage, use, and handling of potentially hazardous materials used, stored, and handled onsite during construction. Contractor compliance shall be monitored throughout construction. In the unlikely event of hazardous materials discovery within the Project Area, the Contractor shall notify the City of Modesto, as well as coordinate with Stanislaus Consolidated Fire Protection District and Stanislaus County.	Prior to the issuance of permits	Project Contractor, City of Modesto Engineering Department, Stanislaus Consolidated Fire Protection District, Stanislaus County	Initials: _____ Date: _____



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	<p>d) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?</p> <p>f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?</p>	<p><b>MM HAZ-01: Coordination with Stanislaus Union School District.</b> Prior to start of Project construction, the Contractor shall provide the construction schedule to the Stanislaus Union School District, specifically Stanislaus Elementary School so that construction occurs when the school site is not in use. The contractor shall coordinate with the school district on an ongoing basis during construction and shall keep records of this coordination at the Project Site for review by the grading and building inspectors.</p> <p>See <b>MM TRAF-01: Traffic Control Plan (TCP).</b></p>	<p>Prior to the start of Project construction</p> <p>The TCP shall be approved by the City prior to Construction and implemented throughout construction</p>	<p>Project contractor</p> <p>Project contractor, Stanislaus Union School District</p> <p>City of Modesto City Engineering Staff, Licensed Traffic Engineer</p>	<p>Initials: _____ Date: _____</p> <p>Initials: _____ Date: _____</p> <p>Initials: _____ Date: _____</p>
Hydrology and Water Quality	a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?	<p><b>MM HYDRO-01: Local SWPPP.</b> Prior to Plan approval and Bid Award, the City of Modesto Utilities staff shall verify that a Local SWPPP is developed and incorporated in the plan set for implementation during Project construction for construction areas. The Local SWPPP should identify the Water Quality Manager for the Project, be kept on site in the construction trailer for the duration of construction and shall incorporate daily updates on water quality compliance activities by the Water Quality Manager, conforming with the approved Local SWPPP. The objectives of the Local SWPPP are to identify pollutant sources from construction that may affect the quality of stormwater discharge, to implement source control practices for each pollutant source, and to either filter or contain and dispose of polluted water and materials prior to discharge from construction areas. The intent of the SWPPP is to minimize pollutants in stormwater discharges from the Project into the existing drainage system from construction, and to protect receiving water quality and beneficial uses downstream. The Local SWPPP may include, but is not limited to, the following elements:</p>	<p>Prior to the approval of Project Plans and start of Project construction. Implemented throughout construction</p>	<p>City of Modesto Engineering Staff, Project Contractor</p>	<p>Initials: _____ Date: _____</p>
Hydrology and Water Quality	a) Continued...	<p>a. Detail erosion control measures pursuant to CASQA Factsheet EC-1 to EC-16 implementing BMPs intended to control sedimentation and erosion in disturbed areas during construction activities. BMPs include:</p>			



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Hydrology and Water Quality	a) Continued...	<ul style="list-style-type: none"> <li>i. Incorporation of erosion control into the construction schedule (EC-1);</li> <li>ii. Minimal land disturbance and avoidance measures in sensitive land areas (EC-2) including natural water bodies or natural drainage systems.</li> <li>iii. Stabilization measures in disturbed areas via Hydraulic mulch (EC-3), Hydroseeding (EC-4), Soil binders (EC-5), straw mulch (EC-6), geotextiles and mats (EC-7), wood mulching (EC-8), compost blankets (EC-14), nonvegetative stabilization (EC-16);</li> <li>iv. Collect sediment-laden runoff in temporary sediment basins (EC-9), velocity dissipation devices (EC-10), slop drains (EC-11), streambank stabilization (EC-12); Soil testing prior to start of construction to ensure selection of appropriate BMPs and prepare soil for vegetation enhancements (EC-15);</li> </ul> <ol style="list-style-type: none"> <li>2. Detail sediment control measures pursuant to CASQA Factsheet SE-1 to SE-14 implementing soil prevention and control measures:               <ul style="list-style-type: none"> <li>i. Protect all stockpiles from stormwater run-on using temporary perimeter sediment barriers such as compost berms (SE-13), temporary silt dikes (SE-12), fiber rolls (SE-5), silt fences (SE-1), sandbags (SE-8), gravel bags (SE-6), or biofilter bags (SE-14).</li> </ul> </li> <li>3. Detail drain inlet protection in the public right-of-way pursuant to CASQA Factsheet SE-10 implement SE-2, Sediment Basin or SE-3, Sediment Trap and/or used in conjunction with other drainage control, erosion control, and sediment control BMPs to protect the site;</li> <li>4. Detail stabilized entrance and egress from construction site to minimize track-out.</li> <li>5. Detail on-site concrete wash out area to minimize track-out.</li> <li>6. Detail stockpile management, material storage &amp; delivery areas to minimize dust and control loose materials.</li> <li>7. Detail solid waste management practices implementing waste disposal in covered waste receptacles.</li> <li>8. Detail location of temporary sanitary waste facilities implementing proper disposal practices including:               <ul style="list-style-type: none"> <li>i. Place covered trash and recycling cans in accessible areas for use near active construction.</li> </ul> </li> </ol>			



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Hydrology and Water Quality	a) Continued...	<ul style="list-style-type: none"> <li>ii. Cover and maintain dumpsters. Check frequently for leaks. Never clean a dumpster by hosing it down on-site where wash water can enter the storm drain system.</li> <li>iii. Dispose of trash daily.</li> <li>iv. Sweeping areas around dumpsters and prohibiting the disposal of liquid chemicals or waste in dumpsters.</li> </ul> 9. List name and contact number of person responsible for implementation of and adherence to Local SWPPP. 10. State size of project in square feet or acres or cubic yards.			
		<p><b>MM HYDRO-02: Stormwater BMPs throughout Project Construction.</b> Prior to start of Project construction and on an ongoing basis throughout construction, the City of Modesto Utilities Department shall verify that Best Management Practices for Construction from the SWPPP or functional equivalent are implemented by the contractor and verified with inspections throughout construction activities. Inspections by the City of Modesto will ensure that the Project contractor maintains the following BMPs for general business practice, vehicle maintenance, clean up, education, and erosion prevention:</p> <p>General Business Practice</p> <ul style="list-style-type: none"> <li>1. Schedule activities such as excavation, saw cutting, and paving during dry weather.</li> <li>2. Keep materials out of the rain. Store them under cover with temporary roofs or plastic sheets/tarps, protected from rainfall, runoff, and wind.</li> <li>3. Use as little water as possible for dust control to avoid excess runoff of sediment.</li> <li>4. Keep pollutants off exposed surfaces.</li> <li>5. Make sure portable toilets are in good working order. Check frequently for leaks.</li> </ul> <p>Vehicle Maintenance</p> <ul style="list-style-type: none"> <li>6. Maintain all vehicles and heavy equipment per manufacturers specifications. Inspect frequently for leaks.</li> <li>7. Designate one area for vehicle parking, vehicle refueling, and routine equipment maintenance. The designated area should be</li> </ul>	Prior to Project construction and the issuance of permits. Implemented throughout construction	City of Modesto Engineering Department, Project Contractor	Initials: _____ Date: _____



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<p>Hydrology and Water Quality</p>	<p>a) Continued...</p>	<p>well away from gutters and storm drains and fitted with spill containment.</p> <ol style="list-style-type: none"> <li>8. Perform major vehicle maintenance and vehicle/equipment washing off site.</li> <li>9. Use drip pans or drop cloths to catch drips and spills.</li> <li>10. Do not use diesel fuel to lubricate equipment or parts.</li> </ol> <p>Clean Up</p> <ol style="list-style-type: none"> <li>11. Ensure that there are appropriate spill kits on site and that all employees are trained on the locations and use of the kits.</li> <li>12. Never hose down streets to clean up tracked dirt. Use wet/dry sweep or vacuum methods.</li> <li>13. Clean up leaks, drips, and other spills immediately. This will prevent contaminated soil or residue on paved surfaces.</li> <li>14. Never hose down surfaces where materials have spilled. Use dry cleanup methods whenever possible.</li> <li>15. Clean up spills on dirt areas by digging up and properly disposing of contaminated soil.</li> <li>16. Sweep up dry spilled materials immediately. Never attempt to bury them or “wash them away” with water.</li> <li>17. Report significant spills to the appropriate spill response agencies immediately.</li> </ol> <p>Employee and Client Education</p> <ol style="list-style-type: none"> <li>18. Educate your employees. Include water quality training in new employee orientations and conduct annual review sessions.</li> <li>19. Educate your customers. Post BMPs where clients and employees can see them. Handling Materials and Wastes</li> <li>20. Practice source reduction – minimize waste when ordering materials. Only order the amounts needed to complete the job.</li> <li>21. Use recycled and recyclable materials whenever possible.</li> <li>22. Never bury waste materials or leave them in the street.</li> <li>23. Dispose of all waste properly.</li> </ol> <p>Erosion Prevention</p> <ol style="list-style-type: none"> <li>24. Reestablish stable upper/top crust on disturbed surfaces. This includes application of water or chemical stabilizers. Re-</li> </ol>			



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Hydrology and Water Quality		vegetation (permanent or temporary) is an excellent form of erosion control for any site. 25. Avoid excavation and grading activities during wet weather. 26. Construct diversion dikes to channel runoff around the site. Line channels with grass or roughened pavement to reduce runoff velocity. 27. Plant permanent vegetation as soon as possible, once excavation and grading activities are complete.			
	b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the Project may impede sustainable groundwater management of the basin?  b) Continued...		Prior to the issuances of permits.	City of Modesto Engineering Department, Project contractor	Initials: _____  Date: _____
	e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?	See <b>MM HYDRO-02: Stormwater BMPs through Project Construction.</b>	Prior to Project construction and the issuance of permits.	City of Modesto Engineering Department, Project Contractor	Initials: _____  Date: _____
Noise	b) Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the Project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?	<b>MM NOI-01: Construction Noise.</b> Throughout Project construction, the following construction noise impacts must be implemented by the Project contractor and City of Modesto Utilities Department in order for noise levels during construction activities to be considered less than significant:  1. During all Project Site excavation and grading on-site, construction contractors shall equip all construction equipment, fixed or mobile, with properly operating and maintained mufflers, consistent with manufacturer standards. 2. The contractor shall place all stationary construction equipment so that emitted noise is directed away from the noise sensitive receptors nearest the Project site. One-inch plywood or acoustical	Throughout Project construction	City of Modesto Utilities Department, Project contractor	Initials: _____  Date: _____



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Noise	b) Noise	<p>blankets capable of achieving a reduction level of at least 10 dB shall be used to keep equipment noise from exceeding the 80 dBA noise level standard.</p> <ol style="list-style-type: none"> <li>3. Equipment shall be shut off and not left to idle when not in use.</li> <li>4. Whenever possible, electric power will be used in lieu of internal combustion engine power.</li> <li>5. The contractor shall locate equipment staging in areas that will create the greatest distance between construction-related noise/vibration sources and sensitive receptors nearest the Project site during all Project construction.</li> <li>6. Jackhammers, pneumatic equipment, and all other portable stationary noise sources shall be shielded, and noise shall be directed away from sensitive receptors.</li> <li>7. The Project proponent shall mandate that the construction contractor prohibit the use of music or sound amplification on the Project site during construction.</li> <li>8. The construction contractor shall limit haul truck deliveries to the same hours specified for construction equipment.</li> <li>9. The quietest equipment available will be utilized when feasible; and,</li> <li>10. Haul routes that affect the fewest number of people will be utilized whenever possible.</li> <li>11. Construction activities near and at the school site shall be limited to only when the school is not in use.</li> </ol>			
Public Services	a) Result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for any of the public services:	<p><b>MM PUB-01: Coordination with Local Agencies for Traffic Control.</b> Prior to start of construction, Modesto’s City Engineering Division must ensure coordination is facilitated between local agencies and special districts within Modesto City Limits and Stanislaus County including Stanislaus Consolidated Fire Protection District, Modesto Fire Department, California Highway Patrol, Stanislaus County Sheriff’s Department, Stanislaus School District, and Modesto Police Department. Coordination between Local Agencies shall involve the review of the Project’s traffic control plan and construction schedule prior to City of Modesto’s approval to ensure all agency Best Management Practices and standards are incorporated into the traffic control plan. This coordination shall also include Stanislaus Elementary School so that installation of the service pipe does not occur during school</p>	Prior to start of construction	City of Modesto’s Engineering Department, Modesto City Limits and Stanislaus County including Stanislaus Consolidated Fire Protection District, Modesto Fire Department,	Initials: _____ Date: _____





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Public Services	i. Fire Protection? ii. Police Protection?	hours or pick-up and drop-off times to avoid conflicts with the operation of the school.		California Highway Patrol, Stanislaus County Sherrif's Department, and Modesto Police Department	
	iii. Schools?	<b>MM HAZ-02: Coordination with Stanislaus Union School District.</b> Prior to start of Project construction, the Contractor shall provide the construction schedule to the Stanislaus Union School District, specifically Stanislaus Elementary School so that construction occurs when the school site is not in use. The contractor shall coordinate with the school district on an ongoing basis during construction and shall keep records of this coordination at the Project Site for review by the grading and building inspectors.	Prior to the start of Project construction.	Project contractor, Stanislaus Union School District	Initials: _____ Date: _____
Transportation	b) Conflict or be inconsistent with CEQA Guidelines § 15064.3, subdivision (b)?  d) Result in inadequate emergency access?	<b>MM TRAF-01: Traffic Control Plan-</b> The City of Modesto Engineering Department shall approve a Traffic Control Plan prepared by a licensed traffic engineer, for all project-affected roadways and intersections prior to mobilization of the Project. The Traffic Control Plan shall comply with requirements in encroachment permits issued by Stanislaus County, City of Modesto and Caltrans. The Traffic Control Plan shall be implemented the contractor continuously during construction and shall include, but not be limited to, the following measures from CALTRANS, Stanislaus County, and the City of Modesto: <b>City of Modesto:</b> <b>1. Public Notification:</b> Two weeks, one week and 24 hours prior to beginning any work in an area or the project, provide written public notice to all residents, businesses, churches, property owners, tenants, and applicable parties adjacent to and within a 1/4-mile radius of the project area (Pursuant to Modesto Standard Specification No. 12.04 Traffic Control Requirements); <b>2. Right-of-way Lane Access:</b> A minimum of one 11-foot-wide lane shall be open in each direction at non intersections, and a minimum of one 11-foot-wide lane for each striped movement at an intersection, for traffic during working hours, unless otherwise described by the Contract Documents (Pursuant to Modesto Standard Specification No. 12.04 Traffic Control Requirements)	Prior to Project Mobilization	City of Modesto Engineering Department, Licensed Traffic Engineer, Project contractor	Initials: _____ Date: _____



Issue	Potentially Significant Impact reduced to Less than Significant with Mitigation Incorporated	Recommended Mitigation Measure	Timing	Responsible Party	Date Completed and Initials
Transportation	b), d) Continued...	<p><b>3. Work Schedule:</b> Normal work schedule is limited to the hours of 7:00 a.m. to 3:30 p.m. outside of the full path of the traveled way. Normal work schedule is limited to the hours of 8:30 a.m. to 3:30 p.m. when any work by the Contractor is within the traveled way, unless otherwise described by the Contract Documents (Pursuant to Modesto Standard Specification No. 12.04 Traffic Control Requirements)</p> <p><b>4. Private Driveways:</b> Notify the owner of the private driveway fifteen (15) calendar days prior to implementing the Traffic Control Plan (Pursuant to Modesto Standard Specification No. 12.04 Traffic Control Requirements);</p> <p><b>5. Trenches:</b> Backfill all trenches at the end of each workday (Pursuant to Modesto Standard Specification No. 12.04 Traffic Control Requirements);</p> <p><b>6. Aggregate base:</b> Provide aggregate base and compact all areas within the roadway and shoulder (Pursuant to Modesto Standard Specification No. 12.04 Traffic Control Requirements);</p> <p><b>7. Temporary Paving &amp; Delineators:</b> Provide temporary paving and temporary delineators or striping at the end of each workday (Pursuant to Modesto Standard Specification No. 12.04 Traffic Control Requirements);</p> <p><b>8. Schools:</b> Notify schools within ½ mile of the work zone, two weeks, one week and 24 hours before implementing the approved Traffic Control Plan in the vicinity of the school;</p> <p><b>9. Signs:</b> Post “No Parking, Tow Away” signs on barricades along the roadway at least 48 hours prior to the construction work in that area;</p> <p>City of Modesto’s BMPs are based on CATRANS standards and traffic control measures outlined within the CALTRANS Manual on Uniform Traffic Control Devices (CAMUTCD, 2014 Edition).</p>			
Transportation	b) Continued...	<p><b>MM TRAF-02: Encroachment Permit-</b> Prior to the issuance of permits and active Project construction, the City’s Engineering and Utilities Departments in coordination with Stanislaus County and CALTRANS, must obtain an approved encroachment permit for work within the public right-of-way with plans showing no new driveways along Kiernan. Throughout Project construction, the Project contractor will be responsible for the enforcement of the encroachment permit.</p>	Prior to the issuance permits and active Project construction	City of Modesto’s Engineering and Utilities Department, Stanislaus County, CALTRANS	Initials: _____ Date: _____
Utilities and Services	d) Generate solid waste in excess of state or local standards, or in excess of the capacity of local infrastructure, or	<p><b>SC UTL-01: Waste Management Plan-</b> Prior to Project construction, the City’s Utilities Department shall ensure Project specifications include standards conditions pertaining to good housekeeping practices. The City’s standard</p>	Prior to Project construction	City of Modesto Utilities Department	Initials: _____



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Utilities and Services	<p>otherwise impair the attainment of solid waste reduction goals?</p> <p>d) Continued...</p>	<p>plan check and review process will ensure the following measures are included in Project Specifications and maintain throughout active construction within the Project Area:</p> <ol style="list-style-type: none"> <li>1. <b>Site Clean Up:</b> The Contractor shall keep the project site clean and free of dust, mud, and debris resulting from the Contractor's operations. Daily clean up throughout the project shall be required as the Contractor progresses with the work. Extra precautions and cleanup efforts shall be made prior to weekends, holidays and predicted storm events.</li> <li>2. <b>Continuous Street Sweeping</b> throughout active construction.             <ul style="list-style-type: none"> <li>Spillage of earth, gravel, concrete, asphalt, or other materials resulting from hauling operations along or across any public traveled way shall be removed immediately by the Contractor at his expense. If site is not kept sufficiently clean, the City will take measures to clean it and back charge the Contractor.</li> </ul> </li> <li>3. <b>Solid Waste Management:</b> Refer to CASQA Factsheet WM-5 and WM-6.             <ol style="list-style-type: none"> <li>a. Select designated waste collection areas onsite.</li> <li>b. Inform trash-hauling contractors that you will accept only watertight dumpsters for onsite use. Inspect dumpsters for leaks and repair any dumpster that is not watertight.</li> <li>c. Locate containers in a covered area or in a secondary containment.</li> <li>d. Provide an adequate number of containers with lids or covers that can be placed over the container to keep rain out or to prevent loss of wastes when it is windy.</li> <li>e. Cover waste containers at the end of each workday and when it is raining.</li> <li>f. Plan for additional containers and more frequent pickup during the demolition phase of construction.</li> <li>g. Collect site trash daily, especially during rainy and windy conditions.</li> <li>h. Remove this solid waste promptly since erosion and sediment control devices tend to collect litter.</li> <li>i. Make sure that toxic liquid wastes (used oils, solvents, and paints) and chemicals (acids, pesticides, additives, curing compounds) are not disposed of in dumpsters designated for construction debris.</li> </ol> </li> </ol>			Date: _____



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Utilities and Services	d) Continued...	<ul style="list-style-type: none"> <li>j. Do not hose out dumpsters on the construction site. Leave dumpster cleaning to the trash hauling contractor.</li> <li>k. Arrange for regular waste collection before containers overflow.</li> <li>l. Clean up immediately if a container does spill. v Make sure that construction waste is collected, removed, and disposed of only at authorized disposal areas.</li> </ul> <p>4. <b>Material Storage and Delivery Area:</b> Refer to CASQA Factsheet WM-1.</p> <ul style="list-style-type: none"> <li>a. Chemicals must be stored in water tight containers with appropriate secondary containment or in a storage shed.</li> <li>b. Temporary storage areas should be located away from vehicular traffic.</li> <li>c. Material delivery and storage areas should be located away from waterways, if possible.</li> <li>d. Employees and subcontractors should be trained on the proper material delivery and storage practices.</li> </ul> <p>5. <b>Concrete Waste Management:</b> Refer to CASQA Factsheet WM-8.</p> <ul style="list-style-type: none"> <li>a. Store dry and wet materials under cover, away from drainage areas. Refer to WM-1, Material Delivery and Storage for more information.</li> <li>b. Perform washout of concrete trucks in designated areas only, where washout will not reach stormwater.</li> <li>c. Do not wash sweepings from exposed aggregate concrete into the street or storm drain. Collect and return sweepings to aggregate base stockpile or dispose in the trash.</li> </ul> <p>6. <b>Spill Prevention and Control:</b> Refer to CASQA Factsheet WM-3.</p> <ul style="list-style-type: none"> <li>a. Ensure that stockpile coverings are installed securely to protect from wind and rain.</li> </ul> <p>7. <b>Temporary Sanitary Waste Facilities:</b> Refer to CASQA WM-10</p> <ul style="list-style-type: none"> <li>a. Instruct employees and subcontractors how to safely differentiate between non-hazardous liquid waste and potential or known hazardous liquid waste.</li> <li>b. Instruct employees, subcontractors, and suppliers that it is unacceptable for any liquid waste to enter any storm drainage device, waterway, or receiving water.</li> <li>c. Educate employees and subcontractors on liquid waste generating activities and liquid waste storage and disposal procedures. v Hold regular meetings to discuss and reinforce disposal procedures (incorporate into regular safety meetings).</li> </ul>			



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Wildfire	a) Substantially impair an adopted emergency response plan or emergency evacuation plan?	See <b>MM TRAF-01: Traffic Control Plan.</b>	Upon the finalization of a detailed pipeline alignment design	City of Modesto City Engineering Staff, Licensed Traffic Engineer	Initials: _____ Date: _____