

# **APPENDIX A**

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## Mitigation Monitoring and Reporting Program



# Mitigation Monitoring and Reporting Program Paso Verde School



Prepared for:



Natomas Unified School District  
Facilities and Strategic Planning Department

Prepared by:



February 2019

# **MITIGATION MONITORING AND REPORTING PROGRAM**

## **CALIFORNIA ENVIRONMENTAL QUALITY ACT REQUIREMENT**

Where a California Environmental Quality Act (CEQA) document has identified significant environmental effects, Public Resources Code Section 21081.6 requires adoption of a “reporting or monitoring program for the changes to the project which it has adopted or made a condition of a project approval to mitigate or avoid significant effects on the environment.”

This Environmental Mitigation Monitoring and Reporting Program (MMRP) has been prepared to provide for the monitoring of mitigation measures required of the Paso Verde K–8 School (proposed project), as set forth in the Final Environmental Impact Report (EIR).

The Natomas Unified School District (NUSD) is the Lead Agency that must adopt the MMRP for development and operation of the project. This report will be kept on file with the Natomas Unified School District, 1901 Arena Boulevard, Sacramento, California 95834.

The CEQA Statutes and Guidelines provide direction for clarifying and managing the complex relationships between a lead agency and other agencies with implementing and monitoring mitigation measures. In accordance with CEQA Guidelines Section 15097(d), “each agency has the discretion to choose its own approach to monitoring or reporting; and each agency has its own special expertise.” This discretion will be exercised by implementing agencies at the time they undertake any of portion of the project, as identified in the EIR.

## **PURPOSE OF MITIGATION MONITORING AND REPORTING PROGRAM**

The intent of the MMRP is to ensure the effective implementation and enforcement of adopted mitigation measures. The MMRP is intended to be used by NUSD staff and others responsible for project implementation.

This document identifies the individual mitigation measures, the party responsible for monitoring implementation of the measure, the timing of implementation, and space to confirm implementation of the mitigation measures.

## **ROLES AND RESPONSIBILITIES**

The NUSD will oversee monitoring and documenting the implementation of mitigation measures. The NUSD or its construction contractor is responsible for fully understanding and effectively implementing all of the mitigation measures contained within this MMRP. Certain mitigation measures also will require that the NUSD coordinate or consult with one or more other public agencies in implementing mitigation measures specified herein.

## CHANGES TO MITIGATION MEASURES

Any substantive change in the MMRP is required to be reported in writing. Modifications to the mitigation measures may be made by the NUSD, subject to one of the following findings, and documented by evidence included in the public record:

- ▶ The mitigation measure included in the Final EIR and the MMRP is no longer required because the significant environmental impact identified in the Final EIR has been found not to exist, or to occur at a level which makes the impact less than significant as a result of changes in the project, changes in environment conditions, or other factors.

OR,

- ▶ The modified or substitute mitigation measure provides a level of environmental protection equal to, or greater than that afforded by the mitigation measure included in the Final EIR and the MMRP; and,
- ▶ The modified or substitute mitigation measure or measures do not have significant adverse effects on the environment in addition to, or greater than those which were considered by the responsible hearing parties in their decisions on the Final EIR and the proposed project; and,
- ▶ The modified or substitute mitigation measures are feasible, and the NUSD, through measures included in the MMRP or other NUSD procedures, can ensure implementation.

## SUPPORT DOCUMENTATION

Findings and related documentation supporting the findings involving modifications to mitigation measures shall be maintained in the project file with this MMRP and shall be made available to the public upon request.

This MMRP will be kept on file at:

Natomas Unified School District Education Center  
1901 Arena Boulevard  
Sacramento, CA 95834

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<b>3.1. Aesthetics</b>					
3.2-1	<p><b>Prepare and Implement a Lighting Plan</b></p> <p>To reduce impacts associated with light and glare, NUSD shall prepare and implement a lighting plan for the proposed project that includes the following elements:</p> <ul style="list-style-type: none"> <li>• Shield or screen lighting fixtures to direct the light downward and prevent light spill on adjacent properties.</li> <li>• Place and shield or screen flood and area lighting needed for security so as not to disturb adjacent residential areas and passing motorists.</li> <li>• Light fixtures that are of unusually high intensity or brightness (e.g., harsh mercury vapor, low-pressure sodium, or fluorescent bulbs) or that blink or flash, shall not be used. LED lighting shall be used where feasible.</li> <li>• Motion-controlled exterior nighttime lighting, rather than lighting that is always on, shall be used where feasible.</li> <li>• Use appropriate building materials (such as low-glare glass, low-glare building glaze or finish, neutral, earth-toned colored paint and roofing materials), shielded or screened lighting, and appropriately shielded lighting for signage, to prevent light and glare from adversely affecting adjacent housing and motorists on nearby roadways.</li> </ul>	Prior to the approval of improvement plans	NUSD and/or contractor(s)		
<b>3.2. Agricultural Resources</b>					
3.2-1	<p><b>Assist with Conservancy Agricultural Operations</b></p> <ul style="list-style-type: none"> <li>• The NUSD will assist TNBC with annual reporting requirements to the NUSD related to pesticide use at TNBC property within one-quarter mile of the Paso Verde School.</li> <li>• If the NUSD determines necessary, NUSD will assist with public communications to promote understanding of how State regulations ensure against public health effects related to lawful agricultural operations.</li> <li>• Consistent with the County's right-to-farm ordinance, the District will post a notification on the Paso Verde School website that property in the vicinity of the project site is designated for agricultural use in the General Plan, and that the District supports established agricultural operations that are operated in a manner consistent with applicable safety standards.</li> <li>• The NUSD will not take actions to stop or limit lawful agricultural operations conducted on TNBC property within one-quarter mile of the Paso Verde School.</li> </ul>	During school operations	NUSD and/or contractor(s)		

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<b>3.3. Air Quality</b>					
3.3-1a	<p><b>Implement the SMAQMD Basic Construction Emission Control Practices</b></p> <p>NUSD shall require that the construction contractor comply with Basic Construction Emission Control Practices identified by the SMAQMD and listed below or as they may be updated in the future:</p> <ul style="list-style-type: none"> <li>• Water all exposed surfaces two times daily. Exposed surfaces include, but are not limited to soil piles, graded areas, unpaved parking areas, staging areas, and access roads.</li> <li>• Cover or maintain at least two feet of free board space on haul trucks transporting soil, sand, or other loose material on the site. Any haul trucks that would be traveling along freeways or major roadways should be covered.</li> <li>• Use wet power vacuum street sweepers to remove any visible track out mud or dirt onto adjacent public roads at least once a day. Use of dry powered sweeping is prohibited.</li> <li>• Limit vehicle speeds on unpaved roads to 15 miles per hour (mph).</li> <li>• All roadways, driveways, sidewalks, parking lots to be paved should be completed as soon as possible. In addition, building pads should be laid as soon as possible after grading unless seeding or soil binders are used.</li> <li>• Minimize idling time either by shutting equipment off when not in use or reducing the time of idling to 5 minutes [required by California Code of Regulations, Title 13, sections 2449(d) and 2485]. Provide clear signage that posts this requirement for workers at the entrances to the site.</li> <li>• Maintain all construction equipment in proper working condition according to manufacturer's specifications. The equipment must be checked by a certified mechanic and determine to be running in proper condition before it is operated.</li> </ul>	During construction	NUSD and/or contractor(s)		
3.3-1b	<p><b>Implement the SMAQMD Enhanced Exhaust Control Practices</b></p> <p>NUSD shall require that the construction contractor adheres to the following SMAQMD Enhanced Exhaust Control Practices as listed below, or as they may be updated in the future, which are shown to be effective in reducing NO<sub>x</sub> emissions:</p> <ul style="list-style-type: none"> <li>• Submit to SMAQMD a comprehensive inventory of all off-road construction equipment, equal to or greater than 50 horsepower, that would be used an aggregate of 40 or more hours during any portion of the</li> </ul>	Prior to and during construction and at least 4 business days prior to the use of heavy-duty off-road equipment	NUSD and/or contractor(s)		

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	<p>construction project. The inventory shall include the horsepower rating, engine production year, and projected hours of use for each piece of equipment. The inventory shall be updated and submitted monthly throughout the duration of the project, except that an inventory shall not be required for any 30-day period in which no construction activity occurs.</p> <ul style="list-style-type: none"> <li>• Provide a plan, for approval by SMAQMD, demonstrating that the heavy-duty (50 horsepower [hp] or more) off-road vehicles to be used in the construction project, including owned, leased, and subcontractor vehicles, will achieve a project wide fleet-average of 20% NO<sub>x</sub> reduction and 45% particulate reduction compared to the most current California Air Resources Board (ARB) fleet average that exists at the time of construction. SMAQMD's Construction Mitigation Calculator can be used to identify an equipment fleet that achieves this reduction.</li> <li>• Acceptable options for reducing emissions may include use of late-model engines, low-emission diesel products, alternative fuels, engine retrofit technology, after-treatment products, and/or other options as they become available.</li> <li>• At least 4 business days prior to the use of heavy-duty off-road equipment, the project representative shall provide SMAQMD with the anticipated construction timeline including start date, and name and phone number of the project manager and on-site foreman.</li> <li>• Ensure that emissions from all off-road diesel powered equipment do not exceed 40 percent opacity for more than three minutes in any one hour. Any equipment found to exceed 40 percent opacity (or Ringelmann 2.0) shall be repaired immediately. Non-compliant equipment shall be documented and a summary provided to the lead agency and SMAQMD monthly. A visual survey of all in-operation equipment shall be made at least weekly, and a monthly summary of the visual survey results shall be submitted throughout the duration of the project, except that the monthly summary shall not be required for any 30-day period in which no construction activity occurs. The monthly summary shall include the quantity and type of vehicles surveyed as well as the dates of each survey.</li> <li>• SMAQMD staff and/or other officials may conduct periodic site inspections to determine compliance.</li> </ul>				

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3.3-1c	<p><b>Use Current Phase Equipment for all Construction Off-Road Vehicles and Equipment</b></p> <p>NUSD shall require that the construction contractor use current phase off-road construction vehicles and equipment (currently Tier 4) for construction-related activities, if commercially available.</p>	During construction	NUSD and/or contractor(s)		
3.3-1d	<p><b>Off-site Mitigation Fee</b></p> <p>If, after application of the above pollutant control measures, emissions would still exceed the SMAQMD-recommended threshold for NO<sub>x</sub> during construction, NUSD shall participate in SMAQMD's off-site mitigation fee program. The mitigation fee, if needed, will be set at a level that would bring NO<sub>x</sub> emissions to a less-than-significant level (i.e., less than 85 lbs./day). The off-site mitigation fee may be needed if there is limited availability of equipment that meets or exceeds ARB's standard (currently Tier 4) for heavy-duty diesel engines use, and if the application of other mitigation measures would not bring NO<sub>x</sub> emissions below the SMAQMD threshold during construction. Calculation of fees, if needed, shall occur in consultation with SMAQMD prior to initiating construction.</p>	Prior to initiating construction	NUSD		
3.3-4	<p><b>Install Air Filtration</b></p> <p>NUSD shall require its contractor(s) to install air filtration for all classroom spaces with air filtration with a Minimum Efficiency Reporting Value (MERV) of 13 or greater for heating, ventilation and air conditioning (HVAC) systems.</p>	Prior to occupancy	NUSD and/or contractor(s)		
<b>3.4. Biological Resources</b>					
3.4-1a	<p><b>Implement Avoidance and Minimization Measures to Protect Giant Garter Snake</b></p> <p>NUSD will implement the following applicable standard avoidance and minimization measures contained in the Programmatic Consultation with the U.S. Army Corps of Engineers<sup>1</sup> and adapted for this project, listed below.</p> <p><i>Programmatic Avoidance and Minimization Measures</i></p> <ul style="list-style-type: none"> <li>• Confine movement of heavy equipment to existing roadways to minimize habitat disturbance.</li> <li>• Construction activity within habitat should be conducted between May 1 and October 1. This is the active period for giant garter snakes and direct</li> </ul>	Prior to and during construction and 24-hours prior to construction activities in areas of suitable habitat for giant garter snakes	NUSD and/or contractor(s)		

<sup>1</sup> Programmatic Consultation with the U.S Army Corps of Engineers. 404 Permitted Projects with Relatively Small Effects on the Giant Garter Snake within Butte, Colusa, Glenn, Fresno, Merced, Sacramento, San Joaquin, Solano, Stanislaus, Sutter and Yolo Counties, California. Appendix C Standard Avoidance and Minimization Measures During Construction Activities in Giant Garter Snake (*Thamnophis gigas*) Habitat.

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	<p>mortality is lessened, because snakes are expected to actively move and avoid danger.</p> <ul style="list-style-type: none"> <li>• Confine clearing to the minimal area necessary to facilitate construction activities. Flag and designate avoided giant garter snake habitat within or adjacent to the project area as Environmentally Sensitive Areas. These areas shall be avoided by all construction personnel.</li> <li>• Construction personnel will receive worker environmental awareness training that will instruct workers to recognize giant garter snakes and their habitat, and procedures to follow if a snake is observed on or near the site.</li> <li>• 24-hours prior to construction activities, the project biologist will survey areas of suitable habitat within the project site for giant garter snakes. Survey of the project area will be repeated if there is a lapse in construction activity of two weeks or greater. If a snake is encountered during construction, construction will cease until appropriate corrective measures have been completed or it has been determined that the snake will not be harmed. Any sightings will be reported to the USFWS immediately at (916) 414-6600, and to the CDFW at (916) 358-2384.</li> <li>• After completion of construction activities within suitable habitat, remove any temporary fill and construction debris that could be used as over-wintering sites and, wherever feasible, restore disturbed areas to pre-project conditions. If temporary fill or construction debris is to be removed between October 1 and April 30, it shall be inspected by a qualified biologist prior to removal to assure that giant garter snake are not using it as hibernaculae.</li> </ul> <p><b><i>Project-Specific Avoidance and Minimization Measures</i></b>                      NUSD will also implement the following additional avoidance and minimization measures:</p> <ul style="list-style-type: none"> <li>• Once the biologist determines there are no giant garter snakes present in the construction area, NUSD will install temporary exclusion fencing around work areas that are within 200 feet of aquatic habitat where suitable upland habitat is present, to prevent giant garter snakes from entering the work area during construction. The fencing will be maintained for the duration of the construction activities. If exclusion fencing is not installed, a qualified biological monitor will be present during all activities in suitable habitat within 200 feet of giant garter snake aquatic habitat. A qualified biological monitor will be present during any work within the West Drainage Canal.</li> </ul>				

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	<p><b>Consistency with the NBHCP</b></p> <ul style="list-style-type: none"> <li>The project's avoidance and minimization measures are consistent with the measures outlined in the NBHCP for work in areas adjacent to suitable giant garter snake habitat. In addition, NUSD will implement the following avoidance and minimization measure from the NBHCP:</li> <li>No plastic, monofilament, jute, or similar erosion control matting that could entangle snakes will be used anywhere in the project area. Acceptable erosion control materials include coconut coir matting, tackified hydro-seeding compounds, or other material approved by CDFW and USFWS.</li> </ul>				
3.4-1b	<p><b>Provide Compensatory Swainson's Hawk Foraging Habitat and Conduct Biological Surveys to Avoid Active Nests during Construction</b> NUSD will implement the following Swainson's hawk mitigation measures.</p> <p><b>Nesting Habitat:</b> NUSD will not initiate intensive construction activity, such as heavy equipment operation, within ¼ mile of an active Swainson's hawk nest between March 1 and September 15 (the nesting season). The project biologist will conduct nesting surveys of known nests or appropriate nesting habitat adjacent to the project site. If surveys show there are no active nests within the distances specified above, then no additional mitigation will be required.</p> <p>If active nests are found and disturbances such as construction will occur during the nesting season, a no-disturbance buffer will be established around the active nest. No project activity will commence within the buffer areas until a qualified biologist has determined, in coordination with CDFW, the young have fledged, the nest is no longer active, or reducing the buffer would not result in nest abandonment. Per the NBHCP and CDFW guidelines, the recommended no-disturbance buffer for Swainson's hawk nests is ¼-mile in situations where the nest is within ¼ mile of existing urban development, and ½ mile if the nest is over ¼-mile from existing urban development, but the size of the buffer may be decreased if a qualified biologist, in consultation with CDFW, determines that such an adjustment would not be likely to adversely affect the nest.</p> <p>Active Swainson's hawk nests within ¼ mile will be monitored by a qualified biologist during construction activities if the activity has potential to cause nest abandonment of fledging. If construction activities cause the nesting bird to vocalize, make defensive flights at intruders, get up from a brooding position, or fly off the nest, then the no-disturbance buffer will be increased until the agitated behavior ceases. The exclusionary buffer will</p>	Prior to and during construction	NUSD and/or contractor(s)		

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	<p>remain in place until the chicks have fledged or as otherwise determined appropriate by a qualified biologist.</p> <p><b>Foraging Habitat:</b> Under CDFW guidelines, the following ratios apply for projects within 1 mile of an active nest tree:</p> <ul style="list-style-type: none"> <li>• one acre of habitat management land on agricultural lands or other suitable habitats for each acre of development (1:1 ratio) with at least 10 percent met by fee title acquisition or a conservation easement allowing for the active management of the habitat, with the remaining 90 percent protected by a conservation easement.</li> </ul> <p>Because of the high value of foraging habitat within the Natomas Basin to the recovery and survival of the Central Valley population of Swainson’s hawk, the likely presence of active nests within 1 mile of the project site, and the County ordinance requirement to mitigate loss of AG-80 lands at a minimum 1:1 ratio, NUSD will replace each acre of foraging habitat lost as a result of implementing the project by creating 1 acre of higher quality foraging habitat on lands that are currently used for lower foraging quality crops such as corn, safflower, and sunflower, or unsuitable crops such as orchards and vineyards, rotating in, as necessary, to other field and grain crops that still provide high-quality foraging value. The total acreage of foraging habitat lost shall be calculated based on final designs, but shall not exceed 20 acres. Rice fields will not be used for conversion to alfalfa because that would potentially result in an adverse effect on giant garter snake. The mitigation habitat will be located within 1 mile of suitable nesting habitat and within 2 miles of an active nest. This mitigation would result in greater compensation than under the NBHCP, which only requires mitigation at a ratio of 0.5:1. NUSD’s proposed mitigation also goes beyond what is described in the County ordinance and CDFW guidelines, which specify only that applicants replace lost foraging habitat with similar habitat and not that they provide higher quality foraging habitat. The replacement habitat will be managed for Swainson’s hawk foraging values in perpetuity. NUSD will provide for the long-term management of the habitat management lands by funding a management endowment (the interest on which will be used for managing the lands) at the applicable rate. The funds will be provided to CDFW in a manner consistent with CDFW policy for land acquisition.</p> <p>Alternatively, NUSD may participate in a fee program, such as that operated by TNBC, that is demonstrated to meet applicable minimum requirements for foraging habitat mitigation, as outlined above.</p> <p>Alternatively, NUSD can participate in the County’s program, which</p>				

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	requires mitigation of Swainson’s hawk foraging habitat by: (1) providing replacement land or paying a fee if the impact is less than 40 acres; or (2) only by providing replacement land if impacts are 40 acres or more. The first option would apply to the proposed project since it would disturb less than 40 acres of land area. The applicable impact fee and administrative fee would apply.				
3.4-1c	<p><b>Provide Burrowing Owl Mitigation per CDFW Protocol</b></p> <p>NUSD will implement the following steps as required by the CDFW protocol (CDFW 2012):</p> <ul style="list-style-type: none"> <li>• To avoid minimize, and mitigate potential impacts on burrowing owl, NUSD will retain a qualified biologist to conduct focused breeding and nonbreeding season surveys for burrowing owls in areas of suitable habitat on and within 500 feet of the project site. Surveys will be conducted in accordance with Appendix D of CDFW’s Staff Report on Burrowing Owl Mitigation (2012).</li> <li>• If no occupied burrows are found, a letter report documenting the survey methods and results will be submitted to NUSD and CDFW and no further mitigation will be required.</li> <li>• If an active burrow is found during the nonbreeding season (September 1 through January 31) and cannot be avoided, owls will be relocated to suitable habitat outside of the project area using passive or active methodologies developed in consultation with CDFW. This may include active relocation to TNBC habitat reserve areas if approved by CDFW and the TNBC reserve managers. No burrowing owls will be excluded from occupied burrows until a burrowing owl exclusion and relocation plan is developed by NUSD and approved by CDFW.</li> <li>• If an active burrow is found during the breeding season (February 1 through August 31), occupied burrows will not be disturbed and will be provided with a 150- to 500-foot protective buffer unless a qualified biologist verifies through noninvasive means that either: (1) the birds have not begun egg laying, or (2) juveniles from the occupied burrows are foraging independently and are capable of independent survival. The size of the buffer will depend on the time of year and level of disturbance, as outlined in the CDFW Staff Report (2012, pg 9). Once the fledglings are capable of independent survival, the owls will be relocated to suitable habitat outside the project area in accordance with a burrowing owl exclusion and relocation plan developed in consultation with CDFW and the burrow will be destroyed to prevent owls from reoccupying it. No</li> </ul>	Prior to construction and during the breeding and nonbreeding season in areas of suitable habitat	NUSD and/or contractor(s)		

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	<p>burrowing owls will be excluded from occupied burrows until a burrowing owl exclusion and relocation plan is approved by CDFW. Following owl exclusion and burrow demolition, the site will be monitored by a qualified biologist to ensure burrowing owls do not recolonize the site prior to construction.</p> <ul style="list-style-type: none"> <li>• If active burrowing owl nests are found on the project site and these nest sites are lost as a result of implementing the project, NUSD will mitigate the loss through preservation of other known nest sites in Sacramento County, at a minimum ratio of 1:1. NUSD will develop a mitigation and monitoring plan for the compensatory mitigation areas.</li> <li>• The mitigation and monitoring plan will include detailed information on the habitats present within the preservation areas, the long-term management and monitoring of these habitats, legal protection for the preservation areas (e.g., conservation easement, declaration of restrictions), and funding mechanism information (e.g., endowment). All burrowing owl mitigation lands will be preserved in perpetuity and incompatible land uses will be prohibited in habitat conservation areas.</li> <li>• NUSD will transfer said burrowing owl mitigation land, through either conservation easement or fee title, to a third-party, nonprofit conservation organization (Conservation Operator) with CDFW named as a third-party beneficiary.</li> </ul>				
3.4-1d	<p><b>Provide Mitigation for Other Special-Status and Nesting Birds</b> NUSD will implement the following measures to protect other special-status and nesting birds during project construction:</p> <ul style="list-style-type: none"> <li>• NUSD's project biologist will conduct a preconstruction survey to identify active raptor nests on and within one-half mile of proposed construction activity no more than 14 days and no less than 7 days before any construction activity begins during the breeding season - between February 15 and August 31. The biologist will also conduct a preconstruction survey for active nests on and within one-quarter mile of the project site. If no active nests are found, then no further mitigation will be required.</li> <li>• If active nests are found, impacts will be avoided by establishing appropriate buffers, in consultation with CDFW. No project activity will commence within the buffer area until the biologist confirms that the nest is no longer active. If the biologist determines that construction activities threaten to destroy an occupied nest or significantly disrupt breeding or rearing of young, a no-construction buffer zone (e.g., 50-foot diameter for</li> </ul>	Prior to construction and during construction and no more than 14 days and no less than 7 days before any construction activity begins during the breeding season	NUSD and/or contractor(s)		

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	passerines and 300-foot diameter for raptors) would be designated by the biologist; construction may only resume within this zone after it has been determined that breeding has ceased and any young birds have fledged.				
3.4-1e	<p><b>Avoid Take of Western Pond Turtles</b></p> <p>NUSD will implement the following measures to avoid the potential loss of western pond turtles:</p> <ul style="list-style-type: none"> <li>• A qualified biologist will conduct a preconstruction survey for western pond turtle no more than 48 hours prior to work within 200 feet of suitable aquatic habitat.</li> <li>• If pond turtles are observed, a qualified biologist, with approval from CDFW, will relocate pond turtles to the nearest area with suitable aquatic habitat that will not be disturbed by project-related construction activities. If nesting activity is observed, an appropriate exclusion buffer will be determined in consultation with CDFW.</li> <li>• A qualified biological monitor will be present during ground disturbance activities within 200 feet of aquatic western pond turtle habitat.</li> </ul>	No more than 48 hours prior to work within 200 feet of suitable aquatic habitat and during construction	NUSD and/or contractor(s)		
<b>3.5. Cultural Resources</b>					
3.5-1a	<p><b>Provide Construction Crews with Information Regarding the Potential to Encounter Previously Unrecorded Archaeological Resources</b></p> <p>Before the start of any earthmoving activities, NUSD will retain a qualified archaeologist to inform construction personnel involved with earthmoving activities regarding the types of cultural resources or features that could be encountered during construction. These include, but are not limited to flaked stone tools or ground stone milling tools. Historic-era artifacts may include, but are not limited to ceramic, glass, or metal objects, nails, and miscellaneous hardware. The archaeologist will provide information regarding the regulatory protections afforded to archaeological resources and procedures to follow if archaeological resources are exposed during excavation, including notifying NUSD representatives.</p>	Before the start of any earthmoving activities	NUSD and/or contractor(s)		
3.5-1b	<p><b>Conduct Archaeological Monitoring During Initial Excavation</b></p> <p>During the initial excavation for the proposed wastewater infrastructure in the primary access roadway, a qualified geoarchaeologist will assess the potential for the presence of buried archaeological sites, including TCRs and human remains. Native American Tribal representatives will be provided with a schedule for the excavations for the wastewater infrastructure and NUSD will extend an invitation for tribal monitors to observe the work.</p>	During the initial excavation for the proposed wastewater infrastructure in the primary access roadway	NUSD and/or contractor(s)		

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3.5-1c	<p><b>Stop Work if Prehistoric or Historic Subsurface Cultural Resources are Discovered, Consult a Qualified Archaeologist to Assess the Significance of the Find, and Conduct Resource Documentation and Data Recovery as Needed</b></p> <p>If unrecorded cultural resources (e.g., midden, unusual amounts of shell, animal bone, bottle glass, ceramics, structure/building remains, etc.) are encountered during construction, all ground-disturbing activities will be restricted within a 100-foot radius of the find or a distance determined by a qualified professional archaeologist to be appropriate based on the potential for disturbance of additional cultural resource materials. A qualified archaeologist will identify the materials, determine their potential to meet the definition of a significant cultural resource in Section 15064.5 or a TCR under AB 52, and formulate appropriate measures for their treatment. Potential treatment methods for significant and potentially significant resources may include, but would not be limited to, no action (i.e., resources determined not to be significant), avoidance of the resource through changes in construction methods or project design, or testing and data recovery, in accordance with applicable State requirements and/or in consultation with affiliated Native American Tribal representative/s.</p>	During construction	NUSD and/or contractor(s)		
3.5-1d	<p><b>Prepare and Submit an Archaeological Testing Plan</b></p> <p>If cultural resources are discovered, the qualified archaeologist will prepare and submit to NUSD an archaeological testing plan. The testing plan will identify the types of archaeological resources that could be affected by the development, the testing method to be used, and the locations recommended for testing. The purpose of the testing plan will be to determine the potential for the presence or absence of archaeological resources in subsurface contexts; identify any archaeological resources found; and evaluate their significance. The archaeologist will submit a report outlining any additional required measures, including additional archaeological testing and/or data recovery.</p>	During construction	NUSD and/or contractor(s)		
3.5-1e	<p><b>Implement Data Recovery Measures, Where Necessary, for Important Archaeological Resources</b></p> <p>Data recovery will be implemented if an adverse impact on a unique or significant archaeological resource cannot be avoided. NUSD will prepare an archaeological data recovery plan that identifies what scientific/historical research questions are applicable to the resource, what data classes the resource is expected to possess, and how the data would address the applicable research questions. Data recovery may include cataloging, artifact analysis, development of interpretive material, and curation. Data recovery</p>	During construction	NUSD and/or contractor(s)		

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	will be limited to areas that could be adversely affected by construction. If the archaeological resource is associated with the Native American inhabitation, NUSD will consult with the relevant tribes and invite a Native American who is traditionally and culturally affiliated with the geographic area to observe the removal of native material.				
3.5-1f	<p><b>Conduct Construction Monitoring</b></p> <p>If cultural resources are discovered, NUSD will determine the need for archaeological monitoring. If monitoring is needed, NUSD will provide a cultural resource monitor. The monitor will log construction activities, observations, types of equipment used, and any new archeological discovery (including the cultural material observed and its location). Photographs will be taken, as necessary, to supplement the documentation. The logs, including photographs, will be signed and dated and submitted to NUSD in a monitoring report. NUSD will determine which activities should be monitored and when monitoring will cease.</p> <p>If an intact archaeological deposit is encountered, the monitor will temporarily halt or redirect ground-disturbing activities and equipment until the resource is evaluated. The archaeologist will immediately notify NUSD, assess the significance of the encountered archaeological deposit, and present the findings to NUSD with recommendations regarding resource avoidance and/or mitigation.</p>	During construction	NUSD and/or contractor(s)		
3.5-1g	<p><b>Prepare and Submit an Archaeological Resources Report</b></p> <p>The archaeological consultant will submit an archaeological resources report to NUSD that evaluates the historical significance of any discovered archaeological resource and describes the archaeological and historical research methods employed in the archaeological testing/monitoring/data recovery program(s) undertaken.</p>	After completion of construction	NUSD and/or contractor(s)		
3.5-2	<p><b>Stop Work If Human Skeletal Remains Are Uncovered, and Follow the Procedures Set Forth in CEQA Guidelines Section 15064.5(e)(1)</b></p> <p>In the event of the accidental discovery or recognition of any human remains, NUSD will take the following steps:</p> <p>(1) No further excavation or disturbance of the project site or any nearby area reasonably suspected to overlie adjacent human remains will occur until:</p> <p>(A) the coroner of Sacramento County has been contacted to determine that no investigation of the cause of death is required, and</p> <p>(B) if the coroner determines the remains to be Native American:</p>	During construction	NUSD and/or contractor(s)		

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	<p>(1) the coroner shall contact the Native American Heritage Commission within 24 hours (Health and Safety Code Section 7050[c]);</p> <p>(2) the NAHC shall identify the person or persons it believes to be the most likely descendant from the deceased Native American pursuant to the provisions of Public Resources Code Section 5097.98; and</p> <p>(3) the most likely descendant may make recommendations to the NUSD/contractors, for means of treating or disposing of, with appropriate dignity, the human remains and any associated grave goods, as provided in Public Resources Code Section 5097.98; or</p> <p>(2) Where the following conditions occur, NUSD/contractors shall rebury the Native American remains and associated grave goods with appropriate dignity on the property in a location not subject to further subsurface disturbance:</p> <p>(A) the NAHC is unable to identify a most likely descendant or the most likely descendant fails to make a recommendation within 24 hours after being notified by the commission;</p> <p>(B) the most likely descendant identified fails to make a recommendation; or</p> <p>(C) NUSD rejects the recommendation of the most likely descendant, and mediation by the NAHC fails to provide measures acceptable to NUSD.</p>				
<b>3.8. Hazards and Hazardous Materials</b>					
3.8-2	<p><b>Stop Work if Unknown Hazards and Hazardous Materials are Encountered during Construction, Retain a Licensed Professional to Investigate Unknown Hazards and Hazardous Materials, and Implement Required Measures, as Necessary</b></p> <p>If, during site preparation and construction activities, evidence of hazardous materials contamination is observed or suspected (e.g., stained or odorous soil or groundwater), construction activities shall cease immediately in the area of the find. If such contamination is observed or suspected, the contractor shall retain a qualified hazardous materials specialist to assess the site and collect and analyze soil and/or water samples, as necessary. If contaminants are identified in the samples, the contractor shall notify and consult with the appropriate federal, state, and/or local agencies. Measures to remediate contamination and protect worker health and the environment shall be implemented in accordance with federal, State, and local regulations before construction activities may resume at the site where contamination is</p>	During site preparation and during construction	NUSD and/or construction contractor(s)		

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	encountered.				
3.8-3a	<p><b>Prohibit Plants That Would Attract Hazardous Wildlife, Maintain Detention Facility, and Monitor Site for Hazardous Wildlife</b></p> <p>The project landscape architect will review the landscape plan with a qualified wildlife damage management biologist or using guidance for plants near airports from the FAA, USDA, Cooperative Extension, and/or with other recognized experts to confirm the plant list prior to construction.</p> <p>NUSD will maintain the detention facility so that it continues to drain within 48 hours of a 24-hour storm event, and make improvements, if necessary, to achieve this performance standard. NUSD will monitor the site for the presence of hazardous wildlife and, if necessary, retain a qualified wildlife damage management biologist to prepare and execute a management strategy, in communication with the Sacramento County Department of Airports, to discourage hazardous wildlife on-site.</p>	Prior to construction and during school operations	NUSD and/or contractor(s)		
3.8-3b	<p>Prepare an Avigation Easement before Occupancy of the School Site and Provide Notice of Aircraft Operations</p> <p>Prior to the occupancy of structures associated with the Paso Verde School on those parcels located wholly or partially within Airport Safety Zone 4 and 6, NUSD shall execute and record an avigation easement to the County of Sacramento as owner of Sacramento International Airport that acknowledges the location of the airport relative to the project site, acknowledges that aircraft will continue to operate, and agrees that NUSD will not install structures that would obstruct air navigation. NUSD will collaborate with the Sacramento County Department of Airports on a mutually agreeable avigation easement that addresses the interests of NUSD and the County as they relate to operation of the school and the Sacramento International Airport. A form of notice shall also be created to be provided by NUSD to notify parents of students that all land within the school site is or may be at a future date be exposed to low and frequent airport overflights, aircraft noise, vibrations, fumes, dust, fuel particles, and all other effects that may be caused or may have been caused by the operation of aircraft landing at, taking off from, or operating at or on Sacramento International Airport. NUSD will also provide the Sacramento County Department of Airports an opportunity to review and comment on the proposed language of such notice prior to distributing it to parents.</p>	Prior to occupancy	NUSD and/or contractor(s)		
3.8-3c	<p><b>Use of Site Consistent with the Airport Land Use Compatibility Plan</b></p> <p>The NUSD will restrict use of areas of the project site that are in Safety Zone 4, consistent with the guidance in the Sacramento International Airport Land</p>	During school operations	NUSD		

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	Use Compatibility Plan. NUSD will ensure that the site plan and the ongoing operation of the school will avoid use of any school-curriculum-related use within Safety Zone 4, including physical education and recess. In addition, the emergency procedures developed for the Paso Verde School will include evacuation drills that do not involve the use of any areas within Safety Zone 4.				
3.8-4	<p><b>Demonstrate Compliance with the California Fire Code, California Building Code, and City of Sacramento Fire Department Requirements and Standards</b></p> <p>Prior to the approval of project designs and issuance of grading permits, the NUSD shall demonstrate to compliance with California Fire Code requirements and City of Sacramento Fire Department standards, including those related to defensible space; fuel breaks; access road length, dimensions, and finished surfaces for firefighting equipment; fire hydrant placement; and fire flow availability. The NUSD shall further demonstrate that ignition-resistant building materials have been incorporated into project designs consistent with the California Building Code. The NUSD shall keep grasses and weeds on the undeveloped portion of the property mowed to a height of 4 inches or less.</p>	Prior to the approval of project designs and issuance of grading permits	NUSD and/or contractor(s)		
<b>3.9. Hydrology and Water Quality</b>					
3.9-1a	<p><b>Acquire Appropriate Regulatory Permits and Prepare and Implement a SWPPP and BMPs</b></p> <p>Prior to the start of grading, NUSD shall obtain coverage under the SWRCB's NPDES stormwater permit for general construction activity (Order 2009-0009-DWQ as amended by Order No. 2012-0006-DWQ), including preparation and submittal of a project-specific SWPPP at the time the NOI is filed with the CVRWQCB. The SWPPP and other appropriate plans shall identify and specify:</p> <ul style="list-style-type: none"> <li>the use of an effective combination of robust erosion and sediment control BMPs and construction techniques to reduce the potential for runoff and the release, mobilization, and exposure of pollutants. These may include but would not be limited to temporary erosion control and soil stabilization measures, sedimentation ponds, inlet protection, perforated riser pipes, check dams, and silt fences;</li> <li>the implementation of non-stormwater management controls, permanent post-construction BMPs, and inspection and maintenance responsibilities;</li> <li>the pollutants that are likely to be used during construction that could be</li> </ul>	Prior to start of grading and during construction	NUSD and/or contractor(s)		

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	<p>present in stormwater drainage and nonstormwater discharges, including fuels, lubricants, and other types of materials used for equipment operation;</p> <ul style="list-style-type: none"> <li>• spill prevention and contingency measures, including measures to prevent or clean up spills of hazardous waste and of hazardous materials used for equipment operation, and emergency procedures for responding to spills;</li> <li>• personnel training requirements and procedures that shall be used to ensure that workers are aware of permit requirements and proper installation methods for BMPs specified in the SWPPP; and</li> <li>• the appropriate personnel responsible for supervisory duties related to implementation of the SWPPP.</li> </ul> <p>Where applicable, BMPs identified in the SWPPP shall be in place throughout all site work and construction/demolition activities and shall be used in all subsequent site development activities. BMPs may include, but are not limited to, such measures as those listed below.</p> <ul style="list-style-type: none"> <li>• Implementing temporary erosion and sediment control measures in disturbed areas to minimize discharge of sediment into nearby drainages as required by the CVRWQCB. These measures may include silt fences, staked straw bales or wattles, sediment/silt basins and traps, geofabric, sandbag dikes, and temporary vegetation.</li> <li>• Establishing permanent vegetative cover to reduce erosion in areas disturbed by construction by slowing runoff velocities, trapping sediment, and enhancing filtration and transpiration.</li> <li>• Using drainage swales, ditches, and earth dikes to control erosion and runoff by conveying surface runoff down sloping land, intercepting and diverting runoff to a watercourse or channel, preventing sheet flow over sloped surfaces, preventing runoff accumulation at the base of a grade, and avoiding flood damage along roadways and facility infrastructure.</li> <li>• A copy of the approved SWPPP shall be maintained and available at all times on the construction site.</li> </ul>				
3.9-1b	<p><b>Develop and Implement a Dewatering Plan and Groundwater Quality BMPs in the SWPPP</b></p> <p>The SWPPP developed and implemented as part of Mitigation Measure 3.9-1a shall specifically include a dewatering plan and measures to prevent/minimize sediment and contaminant releases into groundwater during excavations and methods to clean up releases if they do occur. If necessary, dewatering shall be performed in a manner that allows discharge to an infiltration basin approved by CVRWQCB. Measures to</p>	Prior to and during construction	NUSD and/or contractor(s)		

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	prevent/minimize sediment and contaminant releases into groundwater during excavations and methods to clean up releases may include using temporary berms or dikes to isolate construction activities; using vacuum trucks to capture contaminant releases; and maintaining absorbent pads and other containment and cleanup materials on-site to allow an immediate response to contaminant releases if they occur.				
3.9-2	<p><b>Coordinate with RD 1000, Prepare and Submit a Drainage Plan, and Implement Requirements Contained in the Plan</b></p> <p>NUSD shall coordinate with RD 1000 to design a drainage system that limits peak discharges into the RD 1000 drainage system per RD 1000 requirements. In addition, before the approval of grading plans and building permits, NUSD shall prepare a final drainage plan that incorporates CVRWQCB requirements to appropriately convey off-site upstream runoff through the project site, and demonstrate that project-related on-site runoff would be appropriately contained in detention basins and managed with through other improvements (e.g., source controls) to reduce flooding and hydromodification impacts. The drainage plan shall include, but is not limited to, the following items:</p> <ul style="list-style-type: none"> <li>• an accurate calculation of pre-project and post-project runoff scenarios, obtained using appropriate engineering methods (which may consist of those contained in the <i>Sacramento City/County Drainage Manual Volume 2: Hydrology Standards</i>), that accurately evaluates potential changes to runoff, including increased surface runoff;</li> <li>• runoff calculations for the 10-year and 100-year (0.01 AEP) storm events (and other, smaller storm events as required) shall be performed and the trunk drainage pipeline sizes confirmed based on alignments and detention facility locations finalized in the design phase;</li> <li>• a description of the proposed maintenance program for the on-site drainage system;</li> <li>• project-specific standards for installing drainage systems;</li> <li>• a description of on-site features designed to treat stormwater and maintain stormwater quality before it is discharged from the project site (e.g., vegetated swales, infiltration trenches, and constructed wetland filter strips); and</li> <li>• stormwater management BMPs that are designed to limit hydromodification. These may include, but are not limited to, the following:</li> </ul>	Prior to approval of grading plans and issuance of grading permits	NUSD and/or contractor(s)		

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	<ul style="list-style-type: none"> <li>– use of LID techniques to limit increases in stormwater runoff at the point of origination (these may include, but are not limited to: surface swales; replacement of conventional impervious surfaces with pervious surfaces [e.g., porous pavement]; impervious surfaces disconnection; and trees planted to intercept stormwater);</li> <li>– the use of detention basin inlet and outlet water control structures that are designed to reduce the rate of stormwater discharge;</li> <li>– enlarged detention basins to minimize flow changes and changes to flow duration characteristics;</li> <li>– minimize slope differences between any stormwater or detention facility outfall channel with the existing receiving channel gradient to reduce flow velocity; and</li> <li>– minimize to the extent possible detention basin sizes, embankments, culverts, and other encroachments into the channel and floodplain corridor, and utilize open bottom box culverts to allow sediment passage on smaller drainage courses.</li> </ul>				
3.9-3	<p><b>3.9-3: Develop and Implement a Best Management Practice and Water Quality Maintenance Plan</b></p> <p>Before final approval of improvement plans, a detailed BMP and water quality maintenance plan shall be prepared by a qualified engineer retained by NUSD. The plan shall finalize the water quality improvements and further detail the structural and nonstructural BMPs and LID features proposed for the project. The plan shall include the elements described below.</p> <ul style="list-style-type: none"> <li>• A quantitative hydrologic and water quality analysis of proposed conditions incorporating the proposed drainage design features, which shall include final water quality basin sizing and design configuration.</li> <li>• Pre-development and post-development calculations demonstrating that the proposed water quality BMPs and LID features meet or exceed requirements established by RD 1000 and Sacramento County and including details regarding the size, geometry, and functional timing of storage and release. Pollutants are removed from stormwater in detention basins through gravitational settling and biological processes depending on the type of basin.</li> <li>• Source control programs to control water quality pollutants on the project site, which may include but are not limited to recycling, street sweeping,</li> </ul>	Before final approval of improvement plans	NUSD and/or contractor(s)		

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	<p>storm drain cleaning, hazardous waste collection, waste minimization, prevention of spills and illegal dumping, and effective management of trash collection areas.</p> <ul style="list-style-type: none"> <li>• A management component for the proposed basin that shall include management and maintenance requirements for the design features and BMPs.</li> <li>• LID control measures shall be integrated into the BMP and water quality maintenance plan. These may include, but are not limited to:                             <ul style="list-style-type: none"> <li>– surface swales;</li> <li>– replacement of conventional impervious surfaces with pervious surfaces (e.g., porous pavement);</li> <li>– impervious surfaces disconnection; and</li> <li>– trees or other types of landscaping planted to intercept stormwater runoff.</li> </ul> </li> </ul>				
3.9-5b	<p><b>Coordinate with RD 1000 Regarding Project Design to Protect Existing Flood-Stage Water Levels in RD 1000 Drainage Canals</b></p> <p>Before the approval of grading plans, site improvements, and/or issuance of building permits, NUSD shall coordinate with RD 1000 regarding the design of project-related drainage facilities and stormwater discharge into the West Drainage Canal. NUSD shall provide evidence, to the satisfaction of RD 1000, that project-related discharges would maintain current canal stages for the 100-year (0.01 AEP) and 200-year (0.005 AEP) storm events in the RD 1000 interior drainage system per ULDC standards.</p>	Before the approval of grading plans, site improvements and/or issuance of building permits	NUSD and/or contractor(s)		
3.9-5c	<p><b>Implement Requirements of Sacramento County Floodplain Management Ordinance</b></p> <p>Before the approval of grading plans, NUSD shall submit for, and obtain, a Floodplain Management Permit from the County Floodplain Administrator. NUSD shall comply with the standards set forth in the Sacramento County Floodplain Management Ordinance (Sacramento County Zoning Code, SZC-2014-0007), which includes obtaining a Floodplain Management Permit (Chapter 5, Section 905.01). The NUSD shall provide all information identified in Section 905.01 and as is prescribed by the Floodplain Administrator.</p> <p>In addition to the above, as part of the Floodplain Management Permit, NUSD shall comply with any other conditions imposed by the Sacramento County Floodplain Administrator including the dedication of easements. The</p>	Before the approval of grading plans	NUSD		

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	Floodplain Administrator may also require that NUSD enter into a written agreement with the County holding the County of Sacramento and the Sacramento County Water Agency free from liability for any harm that may occur to any real or personal property or person by flooding (Chapter 5, Sections 905-06 and 905-07).				
<b>3.11. Noise and Vibration</b>					
3.11-1	<p><b>Use Noise-Suppression Devices on Construction Equipment, Limit Construction to Daytime Hours, and Locate Stationary Equipment Away from Sensitive Noise Receptors to Reduce Noise Levels During Construction</b></p> <p>NUSD will implement the following noise-reduction and noise-control measures during construction activities:</p> <ul style="list-style-type: none"> <li>• Construction equipment will be properly maintained per manufacturers' specifications and fitted with the feasible noise suppression devices (e.g., mufflers, silencers, wraps).</li> <li>• All impact tools will be shrouded or shielded, and all intake and exhaust ports on power equipment will be muffled or shielded.</li> <li>• Construction will take place between the hours of 7:00 a.m. and 6:00 p.m. Monday through Saturday, and between the hours of 9:00 a.m. and 6:00 p.m. on Sunday.</li> <li>• Construction equipment will be shut down when not in use and will not idle for extended periods of time near noise-sensitive receptors.</li> <li>• Fixed/stationary equipment (e.g., generators, compressors, cement mixers) will be located as far as practicable from noise-sensitive receptors.</li> <li>• Noise control blanket barriers will be used during construction near noise-sensitive uses.</li> <li>• Residences within 500 feet of construction sites shall be notified of the construction schedule in writing prior to the beginning of construction. Designate a "construction liaison" that would be responsible for responding to any local complaints about construction noise. The liaison would determine the cause of the noise complaints (e.g., starting too early, bad muffler, etc.) and institute reasonable measures to correct the problem. Conspicuously post a telephone number for the liaison at the construction site. If conflicts occurred which were irresolvable by the above mitigation measures, erect temporary noise control blanket barriers on the eastern side of noise-generating equipment operating within 500 feet of occupied residences.</li> </ul>	During construction	NUSD and/or contractor(s)		

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3.11-5	<p><b>Ensure Appropriate Noise Levels for Interior Learning Spaces</b></p> <p>NUSD shall comply with Title 24, Part 11, California Green Building Standards Chapter 5 and the California Department of Education, Division of the State Architect Project Submittal Guidelines related to interior classroom noise levels. The school shall incorporate building materials and, if necessary, other design techniques needed to achieve a total background noise of no more than 45 dBA (L<sub>eq</sub>) for existing and forecast conditions, including the effects of both exterior-source noise and building service and utility noise.</p>	Prior to approval of improvement plans	NUSD and/or contractor(s)		
<b>3.13. Transportation</b>					
3.13-5	<p><b>3.13-5: Prepare and Implement a Construction Traffic Control Plan</b></p> <p>The NUSD shall prepare and implement a traffic control plan per City Code 12.20.030 to the satisfaction of the City Traffic Engineer for construction activities that may affect road rights-of-way, in order to facilitate travel of emergency vehicles on affected roadways. The traffic control plan must illustrate the location of the proposed work area; provide a diagram showing the location of areas where the public right-of-way would be closed or obstructed and the placement of traffic control devices necessary to perform the work; show the proposed phases of traffic control; and identify any time periods when traffic control would be in effect and the time periods when work would prohibit access to private property from a public right-of-way. Measures typically used in traffic control plans include advertising of planned lane closures, warning signage, and a flag person to direct traffic flows when needed. During construction, access to the existing surrounding land uses shall be maintained at all times, with detours used, as necessary, during road closures. The plan may be modified by to eliminate or avoid traffic conditions that are hazardous to the safety of the public.</p>	Prior to and during construction	NUSD		
<b>3.14 Utilities and Service Systems</b>					
3.14-6	<p><b>Collaborate with SMUD to Prepare Utility Service Plans for Electrical Services and Submit Written Verification to the City that Adequate Infrastructure is Available Before Issuance of Building Permits</b></p> <p>The NUSD shall prepare a utility service plan that identifies the electrical infrastructure sizing and locations to serve the school facilities. The NUSD shall provide utility service plans to SMUD for any improvements that are proposed within the SMUD transmission line easement. Before issuance of building permits, the NUSD shall submit to the City written verification that SMUD has adequate electrical infrastructure available to meet the demand of</p>	Prior to issuance of building permits	NUSD and/or contractor(s)		

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	the school facilities.				