

**Mitigation Monitoring and Reporting Program**  
for  
**Mission Inn Booster Installation & Pressure Rezoning**

Prepared for

City of Riverside Public Utilities Department  
3901 Orange Street  
Riverside, CA 92501

June 2016

## INTRODUCTION

The Mission Inn Booster Installation & Pressure Rezoning Project includes the installation of approximately 1,900 linear feet (LF) of replacement 4- and 6-inch diameter cast iron water mains with 8-inch diameter ductile iron pipeline, the installation of approximately 2,200 LF of new 8- and 12-inch diameter discharge pipeline, the installation of approximately 750 LF of new 12-inch diameter suction pipeline. To add, the Project includes the abandonment and demolition of the Rubidoux and Marry Evans booster stations, and the consolidation of three existing pressure zones (Rubidoux 1066, Mary Evans 1150, and the surrounding Gravity 997 zone) into one pressure zone which will be known as Rubidoux 1115. The proposed Project will take place in order to address the issues of low water pressure, insufficient fire flow, booster station operation deficiencies and aged and existing undersized water mains within the existing Rubidoux 1066 and Mary Evans 1150 pressure zones.

The Project will be constructed in two distinct phases. Pipeline construction (phase 1) is anticipated to occur from July 2016 to February 2017. Booster Station construction (phase 2) is anticipated to occur from July 2017 to March 2018. Demolition of the old booster station will be completed by April 2018. No nighttime construction is anticipated for the Project.

The Mitigation Monitoring and Report Program for the Project.

## MITIGATION MONITORING AND REPORTING PROGRAM

A written monitoring report has been compiled to verify implementation of adopted mitigation measures. The following table provides a summary format for the written report, including identification of the various mitigation measures, applicable implementation stage, identification of the responsible monitoring party, and verification of implementation of each mitigation measure.

The following clarifies the meaning of each column in the following table:

Impact Category:	Identifies potentially affected resource/ environmental condition.
Mitigation Measure:	Those measures that will be implemented to minimize possible significant environmental impacts.
Implementing Timing:	The phase of the project in which implementation and compliance will be monitored.
Responsible Monitoring Party:	Entity responsible for monitoring implementation of the mitigation measure.
Monitoring/Reporting Method:	Identifies mechanism by which implementation will be verified.
Compliance Verification:	To be signed and dated by the City of Riverside Public Utilities Department upon receipt of written verification of each mitigation measure.

Impact Category	Mitigation Measure	Implementation Timing	Responsible Monitoring Party	Monitoring/Reporting Method	Compliance Verification
Aesthetics	<b>MM AES 1 (same as MM CR 1):</b> To reduce potential direct and indirect impacts to Mount Rubidoux, the Buena Vista Bridge, and the Seventh Street Historic District, Mount Rubidoux Historic District, Colony Heights Historic District, Evergreen Quarter Historic District, and Loring Park, the exterior treatment of the Mission Inn Booster Station shall be generally consistent to the nearest historic features in the viewshed, which is the Buena Vista Bridge and its accompanying stone walls, through the use of treated concrete in muted color without creating a false impression of being historical in origin. Landscaping shall be planted and maintained around the booster station and electrical transformer in substantial conformance with the conceptual landscaping shown in Figure 6A. The historic stone wall along Mt. Rubidoux Drive shall not be damaged or altered as a result of Project-related construction, operation, or maintenance.	Design of the Project	Riverside Public Utilities Department or construction contractor	Riverside Public Utilities Department through approval of the final site plan for the Project prior to construction	
Biological Resources	<b>MM BIO 1:</b> If feasible, removal of any trees or vegetation shall be done during the non-nesting season (September to February). If construction cannot be limited to the non-nesting season, a qualified biologist shall check the trees for potential nesting sites no more than three (3) days prior to any tree removal activities. If nesting birds are present, the area shall be avoided and the trees undisturbed until the young have fledged as determined by the qualified biologist. Avoidance will involve a prescribed 500-foot buffer zone for birds of prey and a 100- to 300-foot buffer zone for songbirds from sensitive locations.	Prior to any construction-related or maintenance related mowing between September to February	Riverside Public Utilities Department, construction contractor and qualified biologist, if necessary	Project Schedule and Pre-construction Nesting Bird Survey Report, if necessary	

Mitigation Monitoring and Reporting Program  
Mission Inn Booster Installation & Pressure Rezoning

Impact Category	Mitigation Measure	Implementation Timing	Responsible Monitoring Party	Monitoring/Reporting Method	Compliance Verification
Cultural Resources	<b>MM CR 1 (same as MM AES 1):</b> To reduce potential direct and indirect impacts to Mount Rubidoux, the Buena Vista Bridge, and the Seventh Street Historic District, Mount Rubidoux Historic District, Colony Heights Historic District, Evergreen Quarter Historic District, and Loring Park, the exterior treatment of the Mission Inn Booster Station shall be generally consistent to the nearest historic features in the viewshed, which is the Buena Vista Bridge and its accompanying stone walls, through the use of treated concrete in muted color without creating a false impression of being historical in origin. Landscaping shall be planted and maintained around the booster station and electrical transformer in substantial conformance with the conceptual landscaping shown in Figure 6A. The historic stone wall along Mt. Rubidoux Drive shall not be damaged or altered as a result of Project-related construction, operation, or maintenance.	Design of the Project	Riverside Public Utilities Department or construction contractor	Riverside Public Utilities Department through approval of the final site plan for the Project prior to construction	
Cultural Resources	<b>MM CR 2:</b> To reduce impacts to cultural and/or archaeological resources resulting from an inadvertent discovery during construction at Loring Park, all initial ground disturbing activities at Loring Park shall be monitored by a qualified professional archaeologist and a Morongo Band of Mission Indians-affiliated Native American Monitor. Should any cultural and/or archaeological resources be inadvertently discovered during construction, construction activities in the vicinity of the discovery shall immediately halt, construction shall be moved to other parts of the Project site, the Soboba Band of Luiseño Indians shall be notified, and the significance of the resource(s) shall be determined. If the find is determined to be a	During construction	Riverside Public Utilities Department, construction contractor, qualified archaeologist, and Morongo Band of Mission Indians affiliated Native American Monitor	Cultural Resources Report, if needed	

Mitigation Monitoring and Reporting Program  
Mission Inn Booster Installation & Pressure Rezoning

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	historical or unique archaeological resource, as defined in Section 15064.5 of the California Code of Regulations (State <i>CEQA Guidelines</i> ) or a tribal cultural resource as defined in California Public Resources Code 21074 ( <i>CEQA Statue</i> ), reburial, avoidance, or other appropriate measures shall be implemented.				
Cultural Resources	<b>MM CR 3:</b> To reduce impacts to cultural and/or archaeological resource resulting from construction within 9 <sup>th</sup> Street and Redwood Drive, and decommissioning of the Rubidoux Booster Station, all initial ground disturbing activities within 9 <sup>th</sup> Street, Redwood Drive, and the Rubidoux Booster Station shall be monitored by a qualified professional archaeologist. Should any cultural and/or archaeological resources be or inadvertently discovered during construction, construction activities in the vicinity of the discovery shall immediately halt, construction shall be moved to other parts of the Project site, the Soboba Band of Luiseño Indians shall be notified, and the significance of the resource(s) shall be determined. If the find is determined to be a historical or unique archaeological resource, as defined in Section 15064.5 of the California Code of Regulations (State <i>CEQA Guidelines</i> ) or a tribal cultural resource as defined in California Public Resources Code 21074 ( <i>CEQA Statue</i> ), reburial, avoidance, or other appropriate measures shall be implemented.	During construction	Riverside Public Utilities Department, construction contractor, qualified archaeologist, and Soboba Band Luiseño Indians, if necessary	Cultural Resources Report, if needed	
Cultural Resources	<b>MM CR 4:</b> Should any paleontological resources be uncovered during construction, construction activities in the vicinity of the discovery shall be moved and a qualified paleontological resources specialist will be retained to evaluate the resources. If the find is determined to be significant, avoidance or other	During construction	Riverside Public Utilities Department, construction contractor and qualified paleontologist, if necessary	Paleontological Resources Report, if needed	

Mitigation Monitoring and Reporting Program  
Mission Inn Booster Installation & Pressure Rezoning

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	appropriate measures as identified by the paleontologist shall be implemented. Appropriate measures include a qualified paleontologist to be permitted to recover, evaluate; and curate the find(s) in accordance with current standards and guidelines.				
Hazards and Hazardous Materials	<b>MM TRANS 1:</b> During the design phase, the City or its Project contractor shall prepare a Construction Traffic Management Plan to the satisfaction of and approval by the City of Riverside Public Works Department, City of Riverside Police Department, and City of Riverside Fire Department prior to the initiation of any construction activities that requires a lane or roadway closure. The Construction Traffic Management Plan shall include the estimated day(s), time(s), and duration of any lane closures that are anticipated to be required due to Project construction.	During the design phase	Riverside Public Utilities Department and/or construction contractor	Construction Management Plan	
Noise	<b>MM NOI 1:</b> As part of the final design and equipping of the booster station, the booster station building shall use of building materials, noise attenuating louvres, and/or interior insulation such that the noise level 50 feet from the building shall not exceed 51 dBA when the pumps and ventilation fan are in operation.	Final Design and equipping of booster station	Riverside Public Utilities Department and/or construction contractor	Riverside Public Utilities Department through approval of the final site plan for the Project prior to construction	
Noise	<b>MM NOI 2:</b> To minimize noise impacts resulting from poorly tuned or improperly modified vehicles and construction equipment, all vehicles and construction equipment shall maintain equipment engines and mufflers in good condition and in proper tune per manufacturers' specifications to the satisfaction of the City of Riverside. Equipment maintenance records and equipment design specification data sheets shall kept and maintained by the contractor and	During construction	Riverside Public Utilities Department and/or construction contractor	City of Riverside Equipment Maintenance Records and Equipment Design Specification Data Sheets	

Mitigation Monitoring and Reporting Program  
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	available for review by the City upon request.				
Noise	<b>MM NOI 3:</b> To minimize noise from idling engines, all vehicles and construction equipment shall be prohibited from idling in excess of three (3) minutes when not in use.	During construction	Riverside Public Utilities Department and/or construction contractor	Project Schedule	
Noise	<b>MM NOI 4:</b> During construction, the Project contractor shall limit truck deliveries to the same hours specified for operation of construction equipment.	During construction	Riverside Public Utilities Department and/or construction contractor	Project Schedule	
Noise	<b>MM NOI 5:</b> To inform potential sensitive receivers of pending construction, the City shall give written notification to all property addresses, as shown on the latest Riverside County Assessors' roll within two-hundred (200) feet of the construction footprint/alignment no less than seven (7) days prior to the start of construction. The written notification shall include a tentative construction schedule and contact information for use by the public if specific noise issues arise.	Prior to construction	Riverside Public Utilities Department and/or construction contractor	Project Schedule	
Transportation and Traffic	<b>MM TRANS 1:</b> During the design phase, the City or its Project contractor shall prepare a Construction Traffic Management Plan to the satisfaction of and approval by the City of Riverside Public Works Department, City of Riverside Police Department, and City of Riverside Fire Department prior to the initiation of any construction activities that requires a lane or roadway closure. The Construction Traffic Management Plan shall include the estimated day(s), time(s), and duration of any lane closures that are anticipated to be required due to Project construction.	During the design phase	Riverside Public Utilities Department and/or construction contractor	Construction Management Plan	