



Report to
PRESERVATION COMMISSION
City of Sacramento
915 I Street, Sacramento, CA 95814-2671
www.CityofSacramento.org

2

PUBLIC HEARING
March 7, 2012

Members of the Preservation Commission:

Subject: Sacramento Water Treatment Plant Rehabilitation Project; Historic Landmark Complex (M11-021)

Location/Council District:

101 Bercut Drive, Sacramento, CA 95811

Assessor's Parcel Numbers 001-0064-015-0000 and 001-0210-038-0000; also SHRA parcels 001-0210-024-0000 and 001-0061-025 for future purchase

Council District 3

Recommendation: Staff requests the Preservation Commission forward a recommendation of approval to the City Council on the proposed Sacramento Water Treatment Plant Rehabilitation Project at the historic Landmark complex known as the Sacramento River Water Treatment Plant. The subject site is currently developed with various facilities, infrastructure and equipment related to the operation of a water treatment plant. The proposal relates to various improvements to the on-site facilities and infrastructure. Note: the Sacramento Water Treatment Plant Rehabilitation Project includes work at the City's two water treatment plants, the Sacramento *River* Water Treatment Plant and the Fairbairn Treatment Plant; the project before the Preservation Commission involves only the Sacramento River plant.

Contact: David Hung, Associate Planner, (916) 808-5530;
Roberta Deering, Senior Planner for Historic Preservation, (916) 808-8259

Applicant: City of Sacramento, Department of Utilities, Attn: Bill Zehnder, Senior Engineer, (916) 808-1910, 1395 35th Avenue, Sacramento, CA 95822

Property Owner: City of Sacramento, Attn: Bill Zehnder, Senior Engineer, (916) 808-1910

Summary: The proposal includes new structures, demolition, and site work, including: demolition of the existing non-historic East Basin, electrical substation, the decommissioned "911 Call Center" structure and adjacent portable building; decommissioning of the historic Pump Station, Head House, the West Filter Complex

and the non-historic West Basin; and, construction of new High Service Pump Station, new Electrical Building and ancillary equipment structures, new Dewatering Building, addition to existing East Filter Complex, new Basins 3 and 4, new Thickener Tanks and Thickened Sludge Pump Station, and various site improvements. The work is on the site of a listed City-designated historic Landmark complex. A Mitigated Negative Declaration and Mitigation Reporting Program have been prepared for the project.

The primary issues before the Commission are the siting and design of the proposed new work in relation to the site, other structures on site, including the historic structures and the site's significant historic features and characteristics.

Table 1: Project Information
General Plan designation: Public/Quasi-Public
Special Planning District designation: River District SPD
Historic Resource designation: Landmark
Existing zoning of site: Heavy Industrial Special Planning District (M-2-SPD)
Existing use of site: Water Treatment Plant
Property area: 40 acres

Background Information: The subject site is currently developed with various facilities, infrastructure and equipments related to the operation of the water treatment plant for the City of Sacramento. The site – related to certain specific structures and site features, is a listed historic Landmark property (see attached Landmark designation ordinance for contributing resources and significant features and characteristics). Staff notes that the Commission's review on this project is outlined in the Historic Preservation Chapter, 17.134, of the City Code related to City-owned listed historic properties, in that the Preservation review results in a recommendation to the City on the project.

January 4, 2012, Preservation Commission Review and Comment Meeting: Preliminary concepts for the project were presented to the Preservation Commission as a Review and Comment item on January 4, 2012. A summary of those comments are shown below, with staff response after each comment where applicable.

General Comments on Exhibits

- A. Provide simplified site plan to show all existing structures, structures proposed to be removed and structures proposed to be added; this is to aid locating structures easily on the plan.

Staff response: See Attachment 4, Exhibits B and C.

- B. Provide landscape plans for the project, noting the landscape plans need to preserve axis, City Beautiful "park-like" setting, and preservation of site lines, as move plant forward.

Staff response: See Attachment 5, Exhibits A and B.

- C. Provide graphics showing simulations of both the new and existing structures together and the spatial relationship between them.
Staff response: See Attachment 6 for views from Sketchup model.
- D. Final plans should incorporate details on massing of existing structures on the site, site lines being preserved, City Beautiful setting being preserved.
Staff response: Attached exhibits show that this is the case.
- E. Provide additional photos of existing structures and overall site, possibly computer imagery with massing between existing and proposed.
Staff response: See Attachment 3, Photos P and Q, for additional pictures on existing basins and filter complex.

Existing Facilities

- F. Concern expressed about the need to survey historic buildings/structures proposed to be decommissioned (e.g. the Historic Pump Station and Head House) and coordinate mothballing needs. Provide information about possible retooling of the historic facilities on the site; historic facilities need to be maintained and kept from deteriorating until new “use” found for them.
Staff response: Refer to Mitigation Reporting Program for mothball process and planning for the future of historic facilities proposed for decommissioning.

Building Design Comments

- G. The Commission concurs that Concept 1 (Spanish Contemporary) is preferred.
Staff response: The project is proceeding with the Spanish Contemporary design.
- H. Consider simplifying design of new structures even more:
 - 1. Metal screening on proposed Pump Station Building seems too ornate;
 - 2. Existing historic structures on site are relatively plain and light design; concerned about use of so much “terracotta” on building sides, since it is used extensively on historic building roofs; suggested consider using change in texture more on walls versus change in texture and color.**Staff response: The metal screening is eliminated; staff recommends using tonal change rather than color change on walls; see Attachment 4, Exhibit G for this option, though staff recommends maintaining “silver” roof color. Terra cotta color is found at the existing treatment plant now only on roofs of vertically-oriented structures, and staff recommends this vocabulary be retained for new structures at the site. Since the new buildings on the site are horizontally-oriented, staff recommends retaining the originally-proposed “silver” roof color for both new buildings.**
- I. Provide more details at the final review on the metal roofing proposed in this project, including information about thickness of metal parts and connections between walls and cornice.
Staff response: See Attachment 4, Exhibit G.
- J. Plans need to show extent of HVAC systems on rooftops, relative to parapet height/screening, for all new structures. Include sight line exhibits as viewed from Interstate-5.

Staff response: Roof-top equipment will not be visible from I-5; see Attachment 4, Exhibit H.

- K. The Quatrefoil window w/ornamental iron design is a nice feature.

Staff response: This feature has been kept in the design.

- L. Concept 1 (Spanish Contemporary) design could benefit from incorporating more verticality on the window openings.

Staff response: Staff has been apprised that the openings locations are in part designed to accommodate pipe/conduit along the interior walls.

- M. Provide opportunities for natural lighting in buildings; sets of windows minimizing need for fixtures.

Staff response: Staff has been apprised that the openings proposed are for both ventilation and natural light.

Public/Neighborhood Outreach and Comments: The project was noticed for the March 7, 2012 Preservation Commission meeting via US Mail to property owners within 300 feet of the subject site and to community associations in the area including the River District, Sacramento Old City Association, CCAN, Downtown Sacramento Partnership and the Sacramento Preservation Roundtable. The site was also posted with a notice of the hearing. As of the time of this report's printing, no comments on the proposed project had been received by Staff.

Environmental Considerations: The initial study prepared for the project determined that the proposed project is an anticipated subsequent project of the 2030 General Plan Master EIR, that the proposed project is consistent with the 2030 General Plan of use for the project site, that the discussions of cumulative impacts, growth-inducing impacts, and irreversible significant effects in the Master EIR are adequate for the proposed project, and that the proposed project would have additional significant environmental effects not previously examined in the Master EIR. A Mitigated Negative Declaration (MND) was prepared and circulated for public review for a 30-day period from January 18, 2012 to February 17, 2012.

No comment letters on the MND were received during the public review process. The Environmental Services Manager has determined that adoption of the Mitigated Negative Declaration and Mitigation Reporting Program are appropriate actions under the California Environmental Quality Act (CEQA). The initial study/draft mitigated negative declaration for the Sacramento Water Treatment Plant's Rehabilitation project is available at the Community Development Department's webpage located at the following link:

<http://www.cityofsacramento.org/dsd/planning/environmental-review/eirs/>

The draft Mitigation Reporting Program can be found under Attachment 9 of this report.

Policy Considerations: The proposed project is consistent with the land use designation and applicable policies of the 2030 General Plan, including its' Historic and Cultural Resources Element, and the River District Specific Plan and Special Planning District.

General Plan: Land Use and Urban Design Policies

The 2030 General Plan was adopted by City Council on March 3, 2009. The 2030 General Plan's goals, policies, and implementation programs define a roadmap to achieving Sacramento's vision to be the most livable city in America. The 2030 General Plan designation of the subject site is Public/Quasi-Public which allows for neighborhood-serving commercial uses. The 2030 General Plan has identified goals and policies under the Land Use and Urban Design Element. Some of the goals and policies supported by this project are:

LU 8.1.6 Architecture and Planning that Complements Adjoining Uses. *The City shall strive to ensure that the City-owned buildings, sites, and infrastructure are designed to be compatible in scale, mass, character, and architecture with the district or neighborhood in which they are located.*

General Plan: Historic & Cultural Resources Goals Policies

Staff finds the project is generally consistent with the General Plan goal to identify and preserve the city's historic and cultural resources in order to enrich our sense of place and our understanding of the city's prehistory and history.

HCR 2.1.10 Early Consultation. *The City shall minimize potential impacts to historic and cultural resources by consulting with property owners, land developers, and the building industry early in the development review process.*

HCR 2.1.11 Compatibility with Historic Context. *The City shall review proposed new development, alterations, and rehabilitation/remodels for compatibility with the surrounding historic context. The City shall pay special attention to the scale, massing, and relationship of proposed new development to surrounding historic resources.*

HCR 2.1.16 Preservation Project Review. *The City shall review and evaluate proposed preservation projects and development projects involving Landmark parcels and parcels within Historic Districts based on adopted criteria and standards.*

Central City Community Plan Policies

CC.HCR 1.1 Preservation. *The City shall support programs for the preservation of historically and architecturally significant structures which are important to the unique character of the Central City.*

River District Special Planning District

The project meets the following goals of the River District:

1. Allow for the retention and continued operation of industrial and service-oriented uses.
2. Encourage the preservation of historic structures.

Rehabilitation Standards

For Preservation review specifically, the following is the list of the Secretary of the Interior's Rehabilitation Standards for the Treatment of Historic Properties, with the Standards most applicable to this project in bold text:

1. *A property will be used as it was historically or be given a new use that requires minimal change to its distinctive materials, features, spaces, and spatial relationships.*
2. ***The historic character of a property will be retained and preserved. The removal of distinctive materials or alteration of features, spaces, and spatial relationships that characterize a property will be avoided.***
3. *Each property will be recognized as a physical record of its time, place, and use. Changes that create a false sense of historical development, such as adding conjectural features or elements from other historic properties, will not be undertaken.*
4. *Changes to a property that have acquired historic significance in their own right will be retained and preserved.*
5. *Distinctive materials, features, finishes, and construction techniques or examples of craftsmanship that characterize a property will be preserved.*
6. *Deteriorated historic features will be repaired rather than replaced. Where the severity of deterioration requires replacement of a distinctive feature, the new feature will match the old in design, color, texture, and where possible, materials. Replacement of missing features will be substantiated by documentary and physical evidence.*
7. *Chemical or physical treatments, if appropriate, will be undertaken using the gentlest means possible. Treatments that cause damage to historic materials will not be used.*
8. *Archaeological resources will be protected and preserved in place. If such resources must be disturbed, mitigation measures will be undertaken.*
9. ***New additions, exterior alterations, or related new construction will not destroy historic materials, features, and spatial relationships that characterize the property. The new work shall be differentiated from the old and will be compatible with the historic materials, features, size, scale and proportion, and massing to protect the integrity of the property and its environment.***
10. ***New additions and adjacent or related new construction will be undertaken in such a manner that, if removed in the future, the essential form and integrity of the historic property and its environment would be unimpaired.***

Property's/Historic District's Character-Defining Features:

Contributing features per the City's Landmark listing include: Four principal structures in landscaped, City-Beautiful inspired park-like setting of lawn with shrubs and trees on the main plant site, including: 1) the Pumping Station, its form, materials, classical revival elements, quoined corners and centered entry with encircling frieze with incised inscription; tall rectangular multi-paned metal sash windows; 2) the Head House (Old Plant Control and Laboratory Building) 2-story, octagonal, cream-colored concrete and stucco structure with clay-tiled conical roof and cupola, exterior circular drum between walls and roof's inscribed names of well-known scientists and inventors and two inscriptions; 3) the original portion of the Concrete Filter Building attached to the Head House on the east, long 1-1/2 story, multi-windowed flat roofed structure partly below grade; and 4) the Coagulant Building, plaster sided rectangular building with encircling frieze with incised inscription, and classical revival elements, . Also included is the associated historic Water Intake Structure in Sacramento River to the west of Plant (no longer in service and no longer part of the plant property,) on an axis with the Pump Station, Head House, and Filter Building.

The Landmark complex, located at **101 Bercut Drive** (001-0210-038) and associated structure in the Sacramento River west of the plant, meets Criterion i. "Associated with events that have made a significant contribution to the broad patterns of the history of the city and region," and iii — "Embodies the distinctive characteristics of a type, period or method of construction," and iv — "Represents the work of an important creative individual or master." (See attached Historic Survey form.)

Project Design & Staff Evaluation:

Site Design

Staff recommends approval of the proposed site plan, noting that the historic axis at the site is preserved and the new structures will not alter the spatial relationships or the park-like setting of the historic portions of the plant complex. The proposed new tank structures at the east end of the site are to be constructed in an area that is at a much lower grade than the rest of the plant's grade and therefore will have relatively minimal visual impacts, vs if they were to be constructed at the grade of the adjoining portion of the plant. Staff also notes that the entire complex is essentially a very large machine and much of the siting is based upon the functional needs of a water treatment facility.

- 1. Landscape:** Applicant has provided a design narrative (see Attachment 5) which is summarized below.

Proposed landscape improvements will include:

- Planting along the north, south and east sides of the new Floc/Sed Basin.
- Access road frontage planting between the new filter structure and the access road to the south.

- Planting on the north and southeast sides of the new High Service Pump Station.
- Planting around the new Dewatering Building.
- Planting around the new Thickeners.

The general landscape approach is to:

- Provide a sense of continuity between the new and existing pieces of the facility.
- Aesthetically enhance the user and visitor experience and compliment the Spanish Contemporary style of new and existing structures on the site while also addressing views into the facility from neighboring properties, roads and highways.
- Some of the improvements serve a functional role in stabilizing slopes disturbed by or created by new construction.
- Improvements should implement sustainable concepts where appropriate while keeping within the capabilities of the facilities' current maintenance practices.

Specific landscape strategies are:

- Planting design will incorporate drought-tolerant, native or naturalized plants that will facilitate lower overall water-use.
- Plant species already present on the site (i.e. Salvia, Magnolia, Myoporum) can be included, where appropriate in the palette, to help create a sense of continuity between the new and old improvements.
- Plant material shall address long term sustainability and maintenance requirements including: watering, fertilizing, and pruning requirements of individual species. Frequency of maintenance and access by and safety of maintenance personnel shall also be considered.

- 2. Access, Circulation and Parking:** There are no substantial changes to access, circulation and parking as a result of the proposed improvements.
- 3. Site Features:** The site consists of various buildings, basins, sludge lagoons, reservoir and sludge drying area. The new pump station and ancillary electrical buildings are located at the northwest corner of the site, visible from Interstate 5, and the new dewatering building is located at the northeast portion of the site. Staff notes that the new structures' locations and siting appear to be consistent with the site's significant features and characteristics.

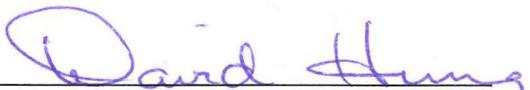
Building Design

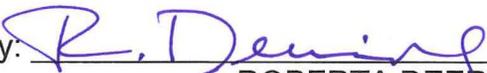
Staff supports the proposed Spanish Contemporary design over the alternative Neo-Classical Modern design, as it reflects the significance, refinements and design qualities extant in the historic pump station and other structures in the complex, rather than being more of a background building (such as with the Neo-Classical Modern design). The pump station is an important structure in the complex and its design should reflect this design hierarchy, albeit conveyed with a contemporary

vocabulary. The addition to the East Filter shall match the existing complex symmetrically. The new Basins 3 and 4 shall match existing Basins 1 and 2. The Thickener Tank and Pump Station on the east end of the site shall be mostly underground with approximately four feet above finished grade.

1. **Scale/Massing/Orientation/Height:** Staff supports the proposed scale, massing, orientation and height of the proposed new structures. Staff notes that the height of most of the new structures will be approximately 35 feet from grade, meaning that they will be relatively visible from surrounding public rights-of-way. Staff notes Attachment 4, Exhibit H showing that there will be no visibility of rooftop equipment on the new pump station building due to its height and its parapet height and relationship of height of the adjacent freeway.
2. **Materials:** The new buildings will be constructed with cast-in-place concrete. The proposed Spanish Contemporary design features painted exposed steel for door frames, canopies and overhangs, prefinished metal components for trim, window frames, louvers and coping. Staff recommends the tonal change, vs. terra cotta color change, option for the pump station building wall treatment, with retention of the “silver” roof.
3. **Fenestration:** Staff supports the proposed fenestration design scheme, noting that it appears to be scaled appropriately and complements the building design.

Conclusion: Staff recommends the Preservation Commission forward a recommendation of approval to the City Council for the Sacramento Water Treatment Plant Rehabilitation Project.

Respectfully submitted by: 
DAVID HUNG
Associate Planner

Approved by: 
ROBERTA DEERING
Senior Planner for Historic Preservation

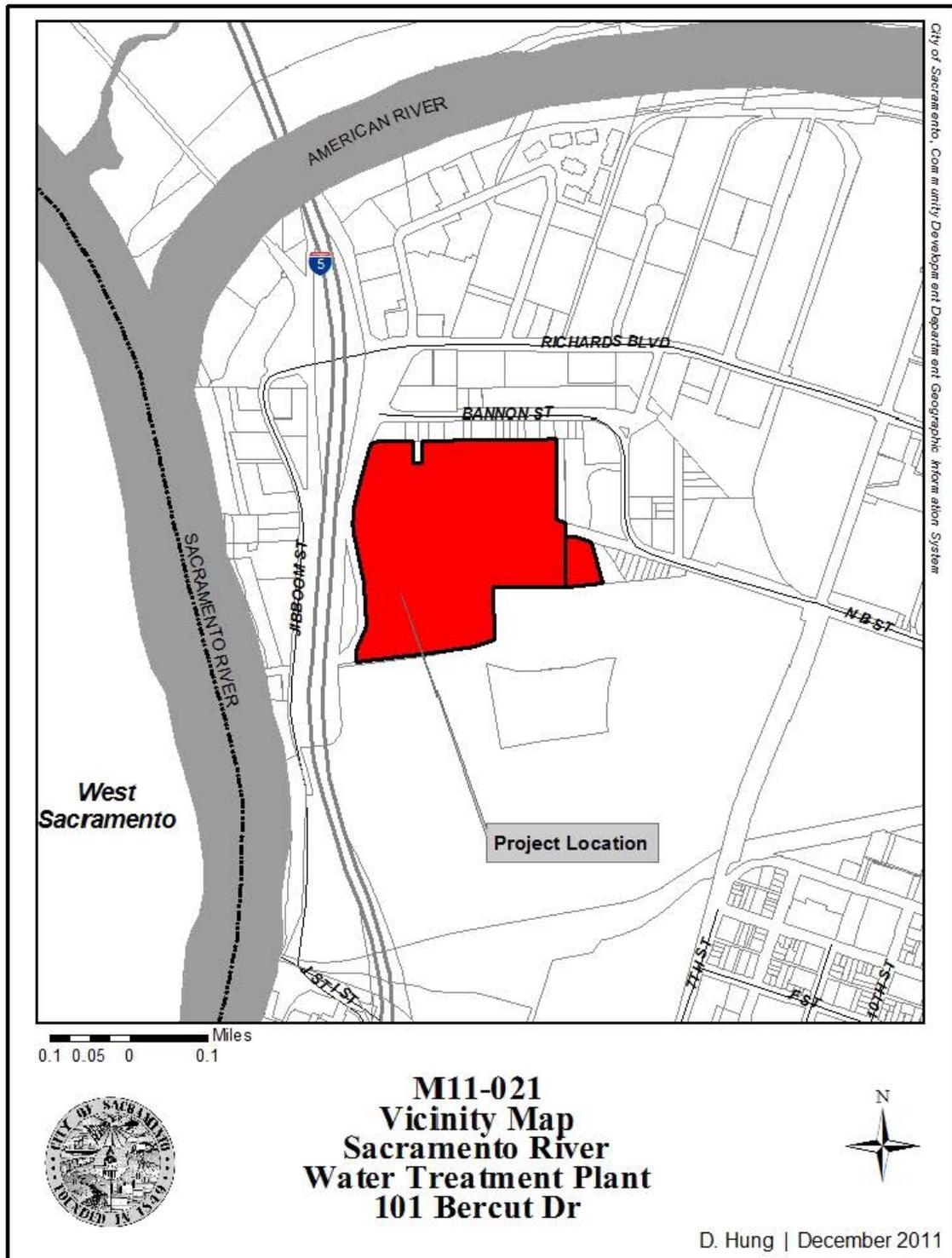
Recommendation Approved:

WILLIAM CROUCH, AIA, FRAIA, AICP,
NCARB, CBO, Casp, LEED (AP)
Preservation Director/Urban Design Manager

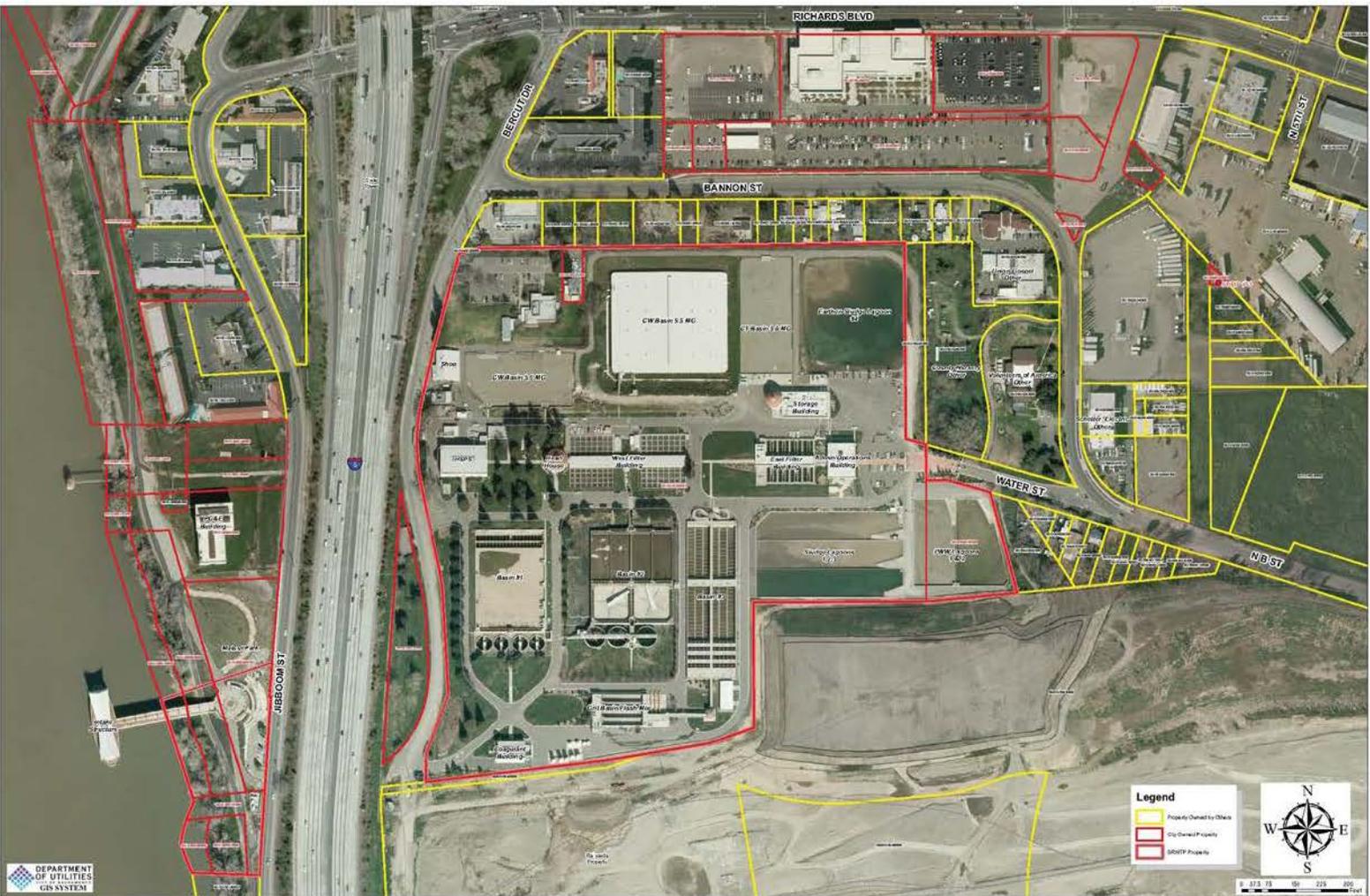
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Attachment 1: Vicinity Map



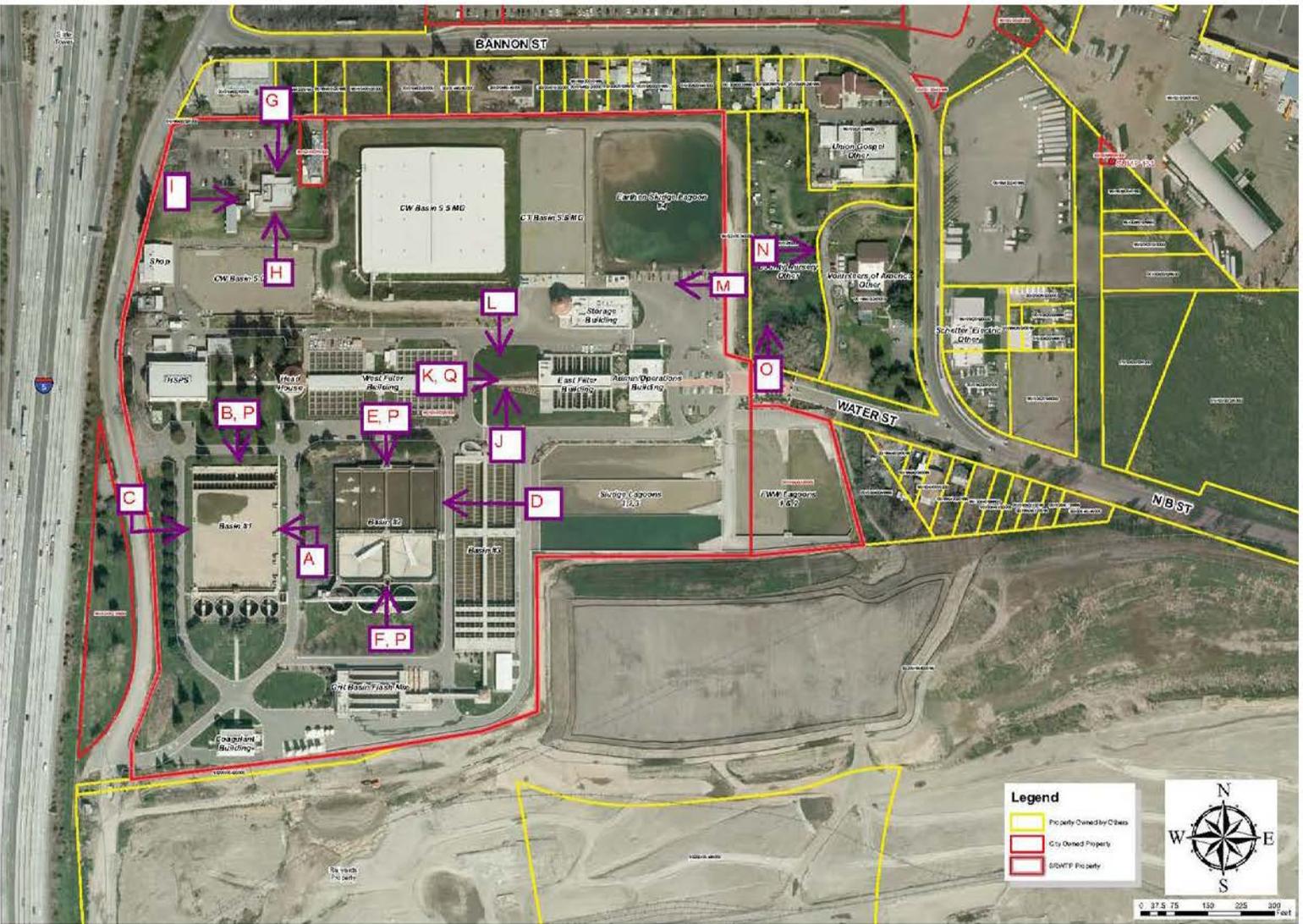
Attachment 2: Aerial View of Entire Site



Sacramento River Water Treatment Plant



Attachment 3: Site Photographs



Legend

A. Basin 1 East Elevation



B. Basin 1 North Elevation



C. Basin 1 West Elevation



D. Basin 2 East Elevation



E. Basin 2 North Elevation



F. Basin 2 South Elevation



G. Old 911 Center North Elevation



H. Old 911 Center South Elevation



I. Old 911 Center West Elevation



J. Location of New Filter Building Looking North



K. Location of New Filter Building Looking East



L. Location of New Filter Building Looking South



M. Location of New Dewatering Building Looking West



N. Area of Dewatering Thickener Tank and Pump Station (1)



O. Area of Dewatering Thickener Tank and Pump Station (2)



P. Basins 1 and 2 Photos



BASINS 1 & 2 (FLOC/SED BASINS)

SAC RIVER WTP - EXISTING BUILDINGS & STRUCTURES
SACRAMENTO WATER TREATMENT PLANTS REHABILITATION PROJECT

2/22/2012

Q. East Filter Complex Photos



EAST FILTER COMPLEX

SAC RIVER WTP - EXISTING BUILDINGS & STRUCTURES
SACRAMENTO WATER TREATMENT PLANTS REHABILITATION PROJECT

2/22/2012

Attachment 4: Architectural Documents

Exhibit 4A: Design Narrative

Introduction

The objective of this rehabilitation project is to decommission and/or replace the aging structures at the Sacramento River Water Treatment Plant, and to provide a new Dewatering Building to address solids handling deficiencies at the treatment plant. Many of the key structures at the plant were originally constructed in 1924. More structures were constructed during the 1930's and in 2003.

The existing Treated Water Pump Station, one of the original 1924 structures, is to be decommissioned and a new High Service Pump Station (HSPS) will be constructed to take its place. The architectural design for the core and shell of the HSPS is meant to be complementary to the existing structures, environmentally sensitive and aesthetically pleasing, while also being functional - taking into consideration concerns for maintenance, operations and security. The new HSPS, a 7,300 square foot building, will house eight 1,000 hp pumps, which will pump treated water out from the treatment plant to the distribution system throughout Sacramento. The building is strictly for process equipment, and is essentially one large room with a partial mezzanine above an electrical room. The mezzanine will contain HVAC equipment.

The new HSPS is located adjacent to Interstate 5, north of the existing historic pump station and one of the underground reservoirs, with the west elevation facing Bercut Drive and Interstate 5. The team has worked closely with the Department of Utilities staff and the engineering design team in providing the initial design objectives and principles for the basis of design.

Ancillary Electrical Buildings will be located directly south of the new HSPS. These buildings hold electrical transformers and gear required for powering the pumps and other new equipment at the facility.

The new Dewatering Building, 7,100 square feet in size, will hold equipment that serves to remove excess water from sludge, a by-product of the water treatment process. The sludge must be mostly dry before it can be transported off-site for disposal. This building is located in the northeast area of the facility, adjacent to the Chemical Building and the Administration Building, both constructed in 2003.

Design Concepts

Our approach to the exterior of the new buildings is to create a sense of community - past and present - and complement the existing historic fabric of the water treatment campus architecture. With the use of cast-in-place concrete systems on the exterior of all new buildings we have created a consistent application of materials that already exists at the plant today while still allowing us the ability to create interest with patterns and texture.

Our design concepts follow these key architectural goals:

- Complement the historical buildings on site
- Functional and flexible design
- Durable and easy to maintain
- Utilize sustainable strategies

- Consider visibility from public roads/highways

The design concepts are based on early design charrettes and engineering requirements. The layout, placement and concept of the existing site organization stem from the process and treatment components currently on site. The flow, sediment, treatment, storage and distribution have pre-determined the placement of new buildings based on uninterrupted service and operational needs of the facility. Two design options have been proposed for the architecture of the new buildings.

Style Option One – Spanish Contemporary

This design of the High Service Pump Station (HSPS) and Dewatering Building is inspired by the Spanish Mission language of the existing buildings. Buff/gray colored stucco and terracotta colored tile form the basis of the palette and texture for the new buildings. Using form liner panels and colored concrete, the design presents both smooth and textured form finishes that take a contemporary interpretation of Spanish Mission style, respecting the historic architecture.

Materials and surface finishes also take into consideration operations, general maintenance of the building and equipment, security and sustainable strategies, as well as cost and constructability factors.

The form of the elevation assembly is designed around a horizontal ribbed pattern. The color and texture captures a similar rhythm and color of the clay tile roof of one of the historic structures, the Head House building.



Clay tile roof on historic Head House building.

The horizontal pattern is approximately 18 inches on center. This helps in breaking down the scale and height of the building while adding interest in shade and shadow with the scalloping of the façade. The colors of buff/gray and terracotta recall the primary California Spanish mission palette and are meant to complement the existing historic buildings on site.

Other materials are prefinished metal components for trim, window frames, louvers and coping; painted exposed steel for door frames, canopies, and overhangs; and glazing. Smaller punched openings on a patterned grid are anticipated to be glass block for durability and ease of maintenance.

Style Option Two – Neo Classical Modern

This design of the buildings is based off of the Neo-classical language of the historic pump station. Light blue-gray and buff colored stucco cover the existing cast-in-place concrete structure. Windows are symmetrically positioned on a regular grid on the façade. Using smooth form liner panels, a similar modular grid will establish a complementary spacing and hierarchy to blend in with the original pump station.

The elevation design of option two is more modest and minimal, and the approach is to serve more purely as a back drop to the historic buildings on campus. The style is aligned with Neo-classical lines, smooth in texture, attention to symmetry (where possible), with a defined base, wall and cornice. The existing historic pump station serves as the basis of this design.



Original Treated Water Pump Station, with Neo-classical design elements.

Materials and surface finishes will be similar to option one for operation and general maintenance purposes, while still providing durability.

These two options were presented and discussed with City Preservation and Design Review staff in a preliminary meeting, and the consensus of direction was to continue to refine option one.

Structural Building System

The structural system for the HSPS consists of approximately 20 foot by 38 foot modular bays, dimensions based on pump spacing and required clearances. The structural grid for the Dewatering Building is to be determined. Walls for all buildings are cast-in-place concrete. Roof structures are steel

beams and girders with concrete fill over medium gauge metal deck. The foundations consist of concrete pad footings and pilasters at points of structural support for the concrete walls.

Electrical Buildings

Cast-in-place concrete, similar to that of the site wall, will be used for the Electrical Buildings. The buildings will have similar character and components of color, texture and metal trim to match the Pump Station.

Ramps are provided where needed functionally, for a person in a wheelchair performing observation tasks. For the substation this will be required for access up to the control room. For areas serving other equipment, an individual will be able to observe from the exterior of the space.

Sustainability

The design team has reviewed the project carefully and compared it against the LEED rating system. We are aware of the challenges this project will face and are able to apply the principles of the LEED system in a creative yet appropriate way to achieve sustainable goals for the project. We plan to create a scorecard to track our detailed approach to the strategies we intend to incorporate in the various categories, such as energy and atmosphere, materials and resources, indoor environmental quality and innovation.

Applicable Codes

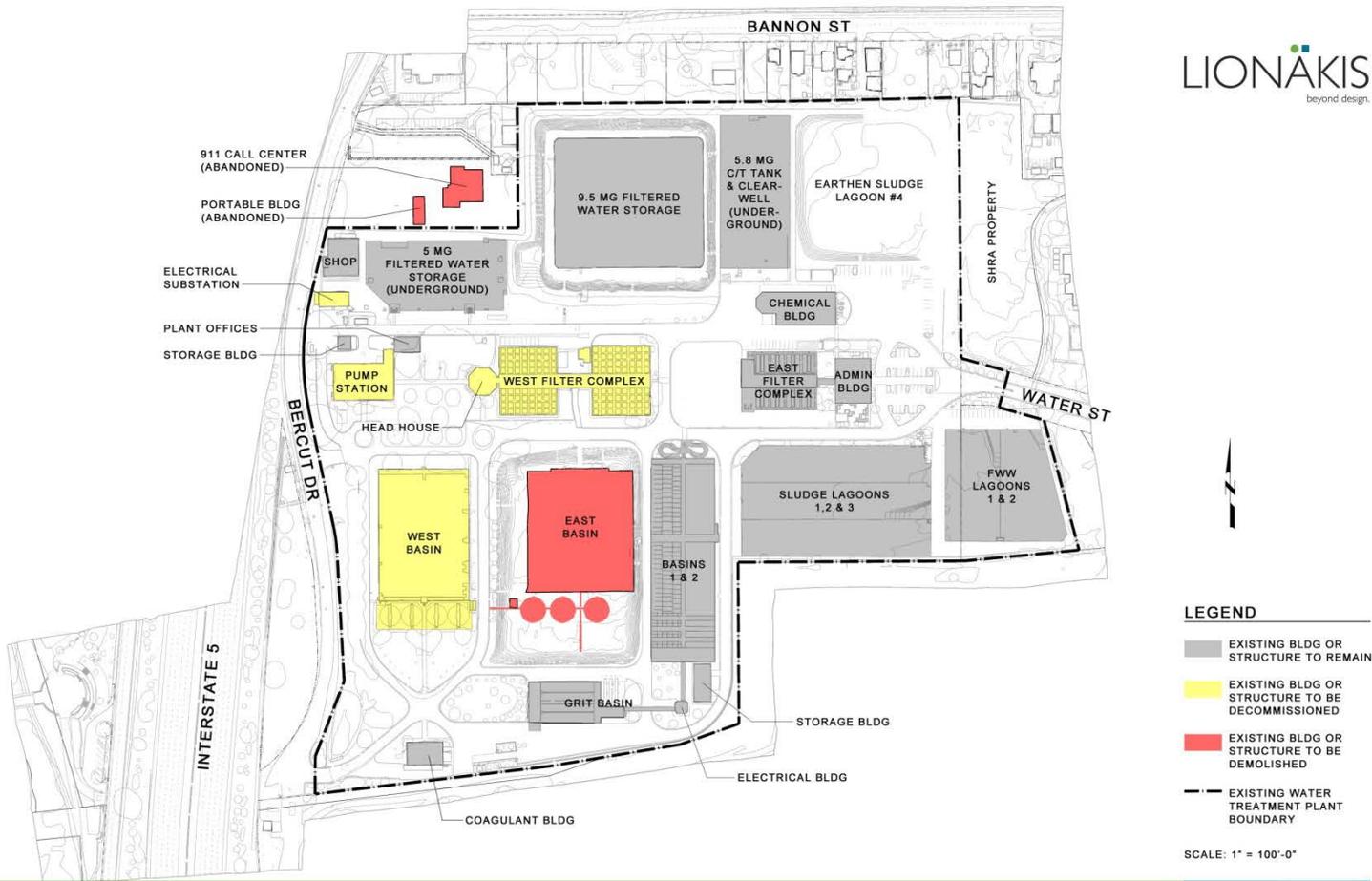
The architectural design will conform to the California Building Code (CBC) and all applicable local codes.

The construction type for all buildings shall be Type II B.

The HSPS and the Dewatering Building will be classified as F-2 occupancy, while the Electrical Buildings will be S-2.

Fire sprinklers should not be required for the Pump Building. This will be confirmed with the City of Sacramento Fire Department. Fire hydrants, dry standpipes and portable fire extinguishers in key locations will be provided in lieu of a sprinkler system.

Exhibit 4B: Existing Overall Site Plan

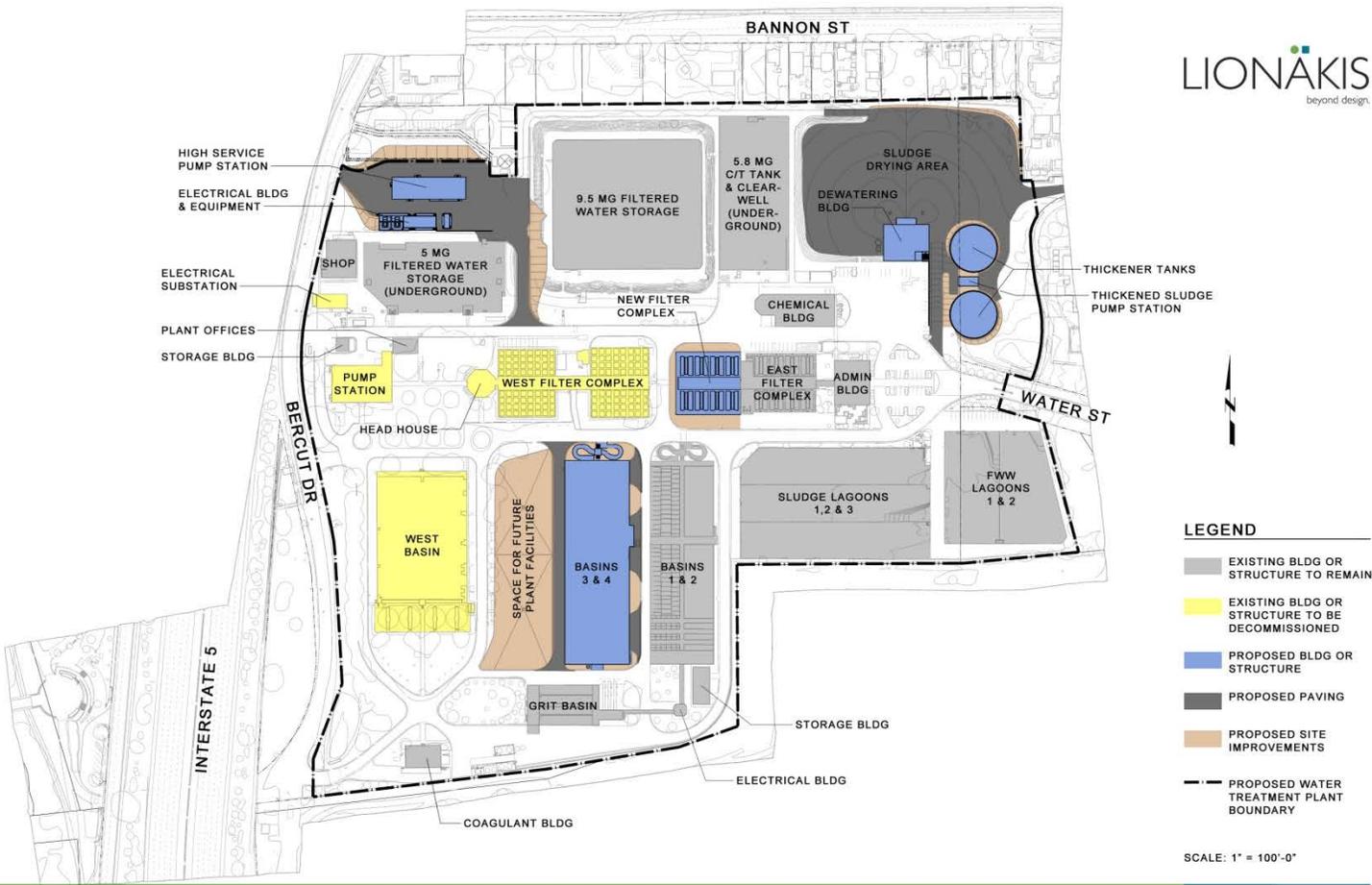


SAC RIVER WTP - OVERALL SITE PLAN (EXISTING)

SACRAMENTO WATER TREATMENT PLANTS REHABILITATION PROJECT

2/22/2012

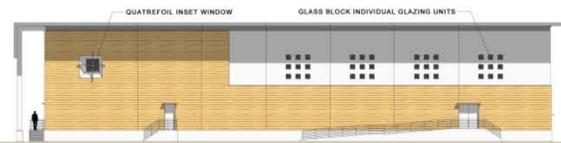
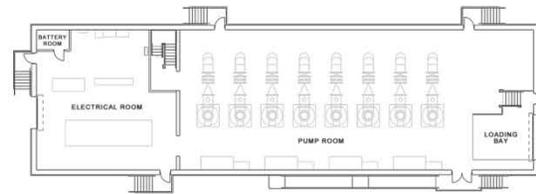
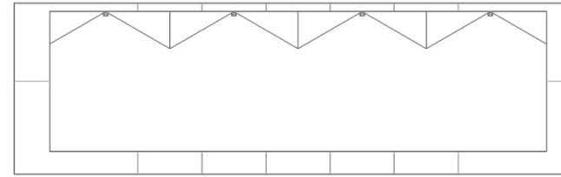
Exhibit 4C: Proposed Overall Site Plan



SAC RIVER WTP - OVERALL SITE PLAN (PROPOSED)

SACRAMENTO WATER TREATMENT PLANTS REHABILITATION PROJECT

Exhibit 4D: High Service Pump Station Plan

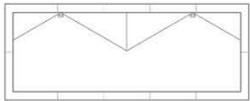


SAC RIVER WTP - HIGH SERVICE PUMP STATION
SACRAMENTO WATER TREATMENT PLANTS REHABILITATION PROJECT

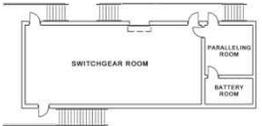
2/22/2012



Exhibit 4E: Electrical Building Plan



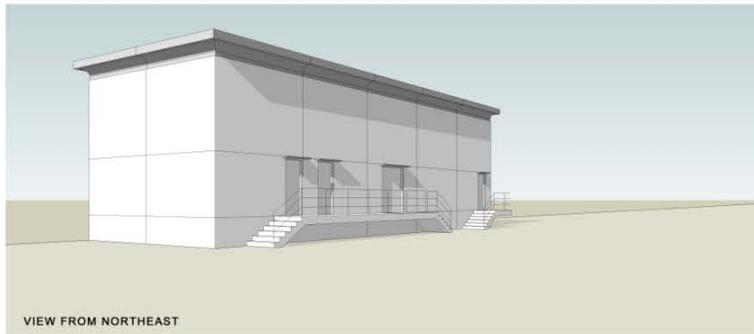
ROOF PLAN (SCALE 3/32"=1'-0")



FLOOR PLAN - MAIN LEVEL (SCALE 3/32"=1'-0")



FLOOR PLAN - LOWER LEVEL (SCALE 3/32"=1'-0")



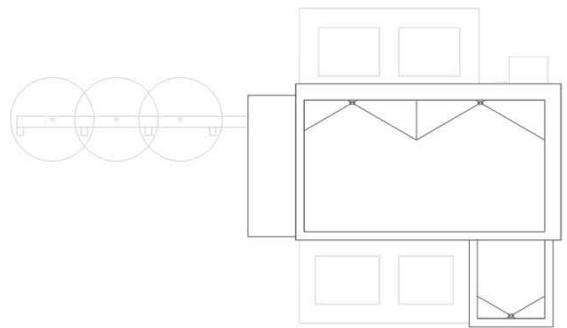
VIEW FROM NORTHEAST



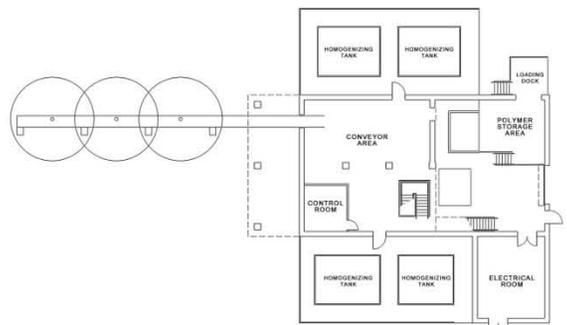
SAC RIVER WTP - ELECTRICAL BUILDING
SACRAMENTO WATER TREATMENT PLANTS REHABILITATION PROJECT

2/22/2012

Exhibit 4F: Dewatering Building



ROOF PLAN (SCALE 3/32"=1'-0")



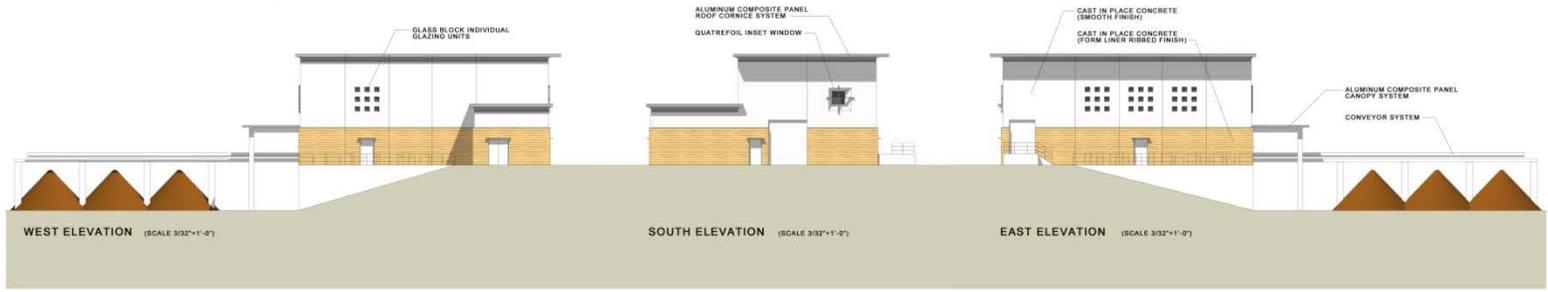
FLOOR PLAN - MAIN LEVEL (SCALE 3/32"=1'-0")



VIEW FROM NORTHEAST



VIEW FROM SOUTHEAST



WEST ELEVATION (SCALE 3/32"=1'-0")

SOUTH ELEVATION (SCALE 3/32"=1'-0")

EAST ELEVATION (SCALE 3/32"=1'-0")

SAC RIVER WTP - DEWATERING BUILDING
SACRAMENTO WATER TREATMENT PLANTS REHABILITATION PROJECT

2/22/2012

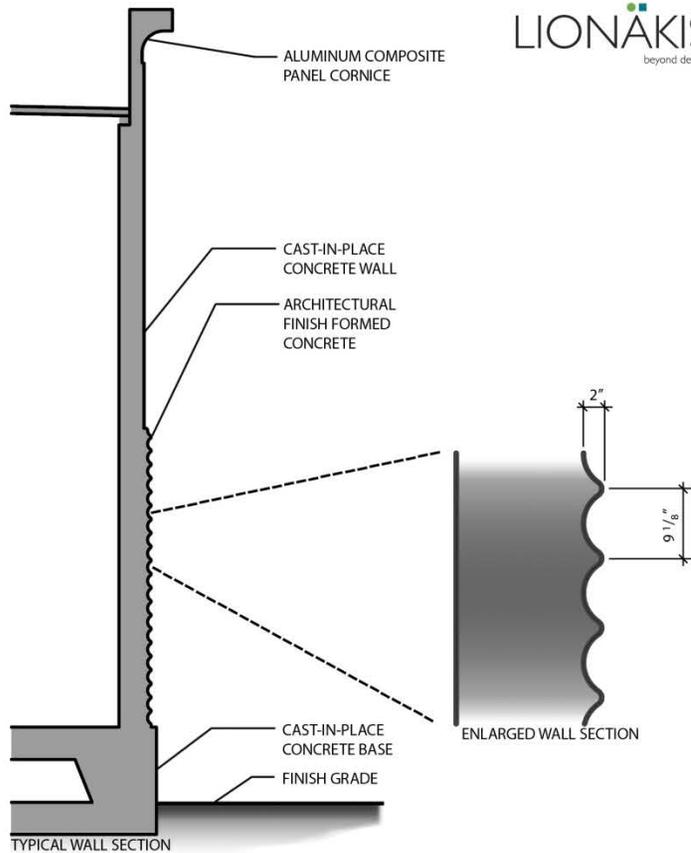
Exhibit4G: Color Schemes and Wall Section



COLOR SCHEME OPTION 1



COLOR SCHEME OPTION 2

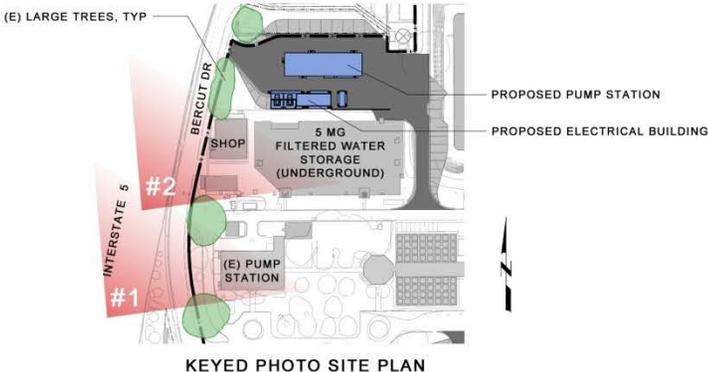


SAC RIVER WTP - CAST-IN-PLACE CONCRETE

SACRAMENTO WATER TREATMENT PLANTS REHABILITATION PROJECT

2/22/2012

Exhibit 4H: View from Interstate 5



VIEW OF EXISTING PUMP STATION



VIEW OF PROPOSED PUMP STATION AND ELECTRICAL BUILDING

SAC RIVER WTP - VIEWS FROM INTERSTATE 5
 SACRAMENTO WATER TREATMENT PLANTS REHABILITATION PROJECT

2/22/2012

Attachment 5: Landscaping Documents

Exhibit 5A: Design Narrative

Landscape Improvement Scope:

Landscape improvements at the Sacramento River Water Treatment Plant (SRWTP) will include:

1. Planting along the north, south and east sides of the new Floc/Sed Basin
2. Access road frontage planting between the new filter structure and the access road to the south
3. Planting on the north and southeast sides of the new High Service Pump Station
4. Planting around the new Dewatering Building
5. Planting around the new Thickeners

General Landscape Approach:

Improvements implemented as part of this project should serve to provide a sense of continuity between the new and existing pieces of the facility. They should serve to aesthetically enhance the user and visitor experience and compliment the Spanish Contemporary style of new and existing structures on the site while also addressing views into the facility from neighboring properties, roads and highways. Some of the improvements will serve a functional role in stabilizing slopes disturbed by or created by new construction. Finally, the landscape improvements should implement sustainable concepts where appropriate while keeping within the capabilities of the facilities' current maintenance practices.

Specific Landscape Strategies:

- Planting design will incorporate drought-tolerant, native or naturalized plants that will facilitate lower overall water-use.
- Plant species already present on the site (i.e. Salvia, Magnolia, Myoporum) can be included, where appropriate in the palette, to help create a sense of continuity between the new and old improvements.
- Plant material shall address long term sustainability and maintenance requirements including: watering, fertilizing, and pruning requirements of individual species. Frequency of maintenance and access by and safety of maintenance personnel shall also be considered.

Planting at New Floc/Sed Basin: Planting at the new basin should serve to soften the visual look of the 10-12' high concrete basin walls and access ramp. Large evergreen natives (i.e. *Ceanothus 'Darkstar'*, California Lilac) can be included as a foundation planting along the south and east sides of the basin, while species such as Myoporum and Salvia which are used at the base of the 2003 Floc/Sed Basin ramp can be used around the new basin.

Frontage at New Filter Structure: The existing landscape along the access road south of the Head House building and old filters includes a courtyard style lawn, manicured hedge border and a formal row of Magnolias. These elements suggest an entry and court representative of 'City Beautiful' landscapes popular when the facility was originally constructed. Planting at the new filter structure will compliment the linear organization of the existing landscape, but will not be a literal extension of tree row, hedge and lawn court. Instead, a layered landscape with taller evergreen foundation planting at the base of the filter structure will blend to an ornamental groundcover. This could also transition to a band of turf at the curb extending a small portion of the existing formal lawn. This treatment is water-use and maintenance conscious and acknowledges the formality of the existing landscape without attempting to reproduce it.

Planting at Dewatering Building: The landscape at and around the new dewatering building will include a palette that compliments the Spanish Contemporary style of the architecture. California natives and naturalized Mediterranean species (i.e. *Lavandula stoechas*, Spanish Lavander) will serve well in this area. If space allows, a few small variety Magnolia (*Magnolia grandiflora* 'Little Gem') can be introduced to further support continuity of the entire site's landscape experience.

Planting at Pump Station and Thickeners: Construction of the new pump station in the northwest corner of the site and the thickeners to the east will create or expose some substantial slopes that will require stabilization. For these areas we propose fast growing soil stabilizing ground covers such as Cotoneaster, Juniper or a "no-mow" fescue, combined with clusters of complimentary native or naturalized ornamental shrubs.

There are several existing redwoods on the property. Although this species could serve adequately in addressing areas where visual screening or buffering is desired, redwoods require a large amount of water to thrive. We propose the use of cedars (i.e. *Cedrus atlantica* 'Glauca', Atlas Cedar or, *Cedrus deodara*, Deodar Cedar), which are more moderate in their water requirements, where large screen trees are desired.

Exhibit 5B: Sample Plant Pellets



CEDRUS ATLANTICA 'GLAUCA'
ATLAS CEDAR



CEDRUS DEODARA
DEODAR CEDAR



PLATANUS OCCIDENTALIS
SYCAMORE



MAGNOLIA GRANDIFLORA 'LITTLE GEM'
SOUTHERN MAGNOLIA



COTONEASTER HORIZONTALIS
ROCK COTONEASTER



SALVIA LEUCOPHLIA
PURPLE SAGE



MYOPORUM PARVIFOLIUM
MYOPORUM



JUNIPERUS CONFERTA 'BLUE PACIFIC'
BLUE PACIFIC SHORE JUNIPER



CEANOTHUS 'DARKSTAR'
CALIFORNIA LILAC 'DARKSTAR'



CEANOTHUS GRISEUS HORIZONTALIS 'YANKEE POINT'
CALIFORNIA LILAC 'YANKEE POINT'



LAVENDULA STOECHAS
SPANISH LAVENDER



ROSMARINUS OFFICINALIS 'HUNTINGTON CARPET'
HUNTINGTON CARPET ROSEMARY

Attachment 6: Sketchup Model Views



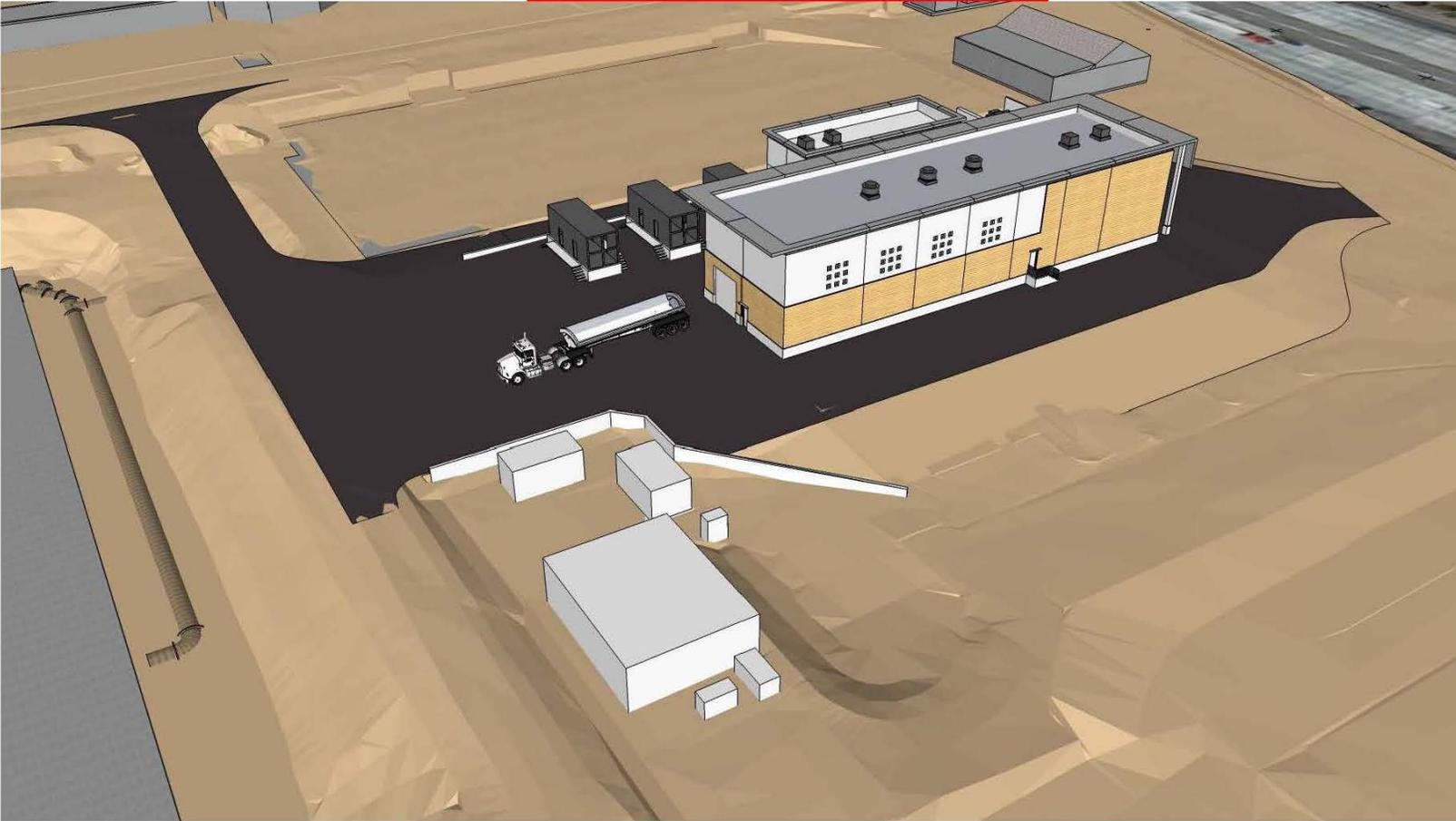




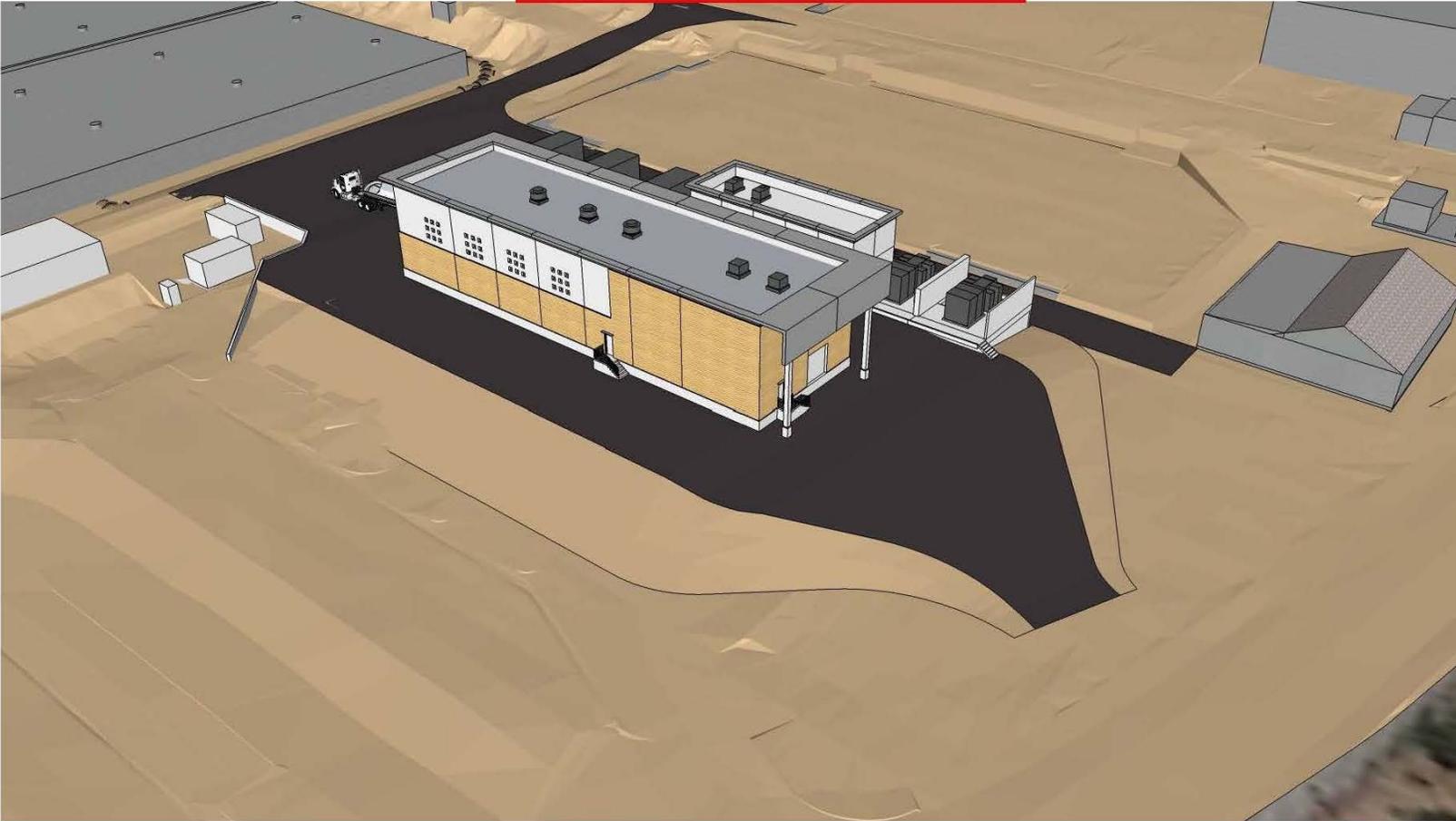
View from southeast of High Service Pump Station



View from southwest of High Service Pump Station



View from northwest of High Service Pump Station



Close Up View from west of High Service Pump Station



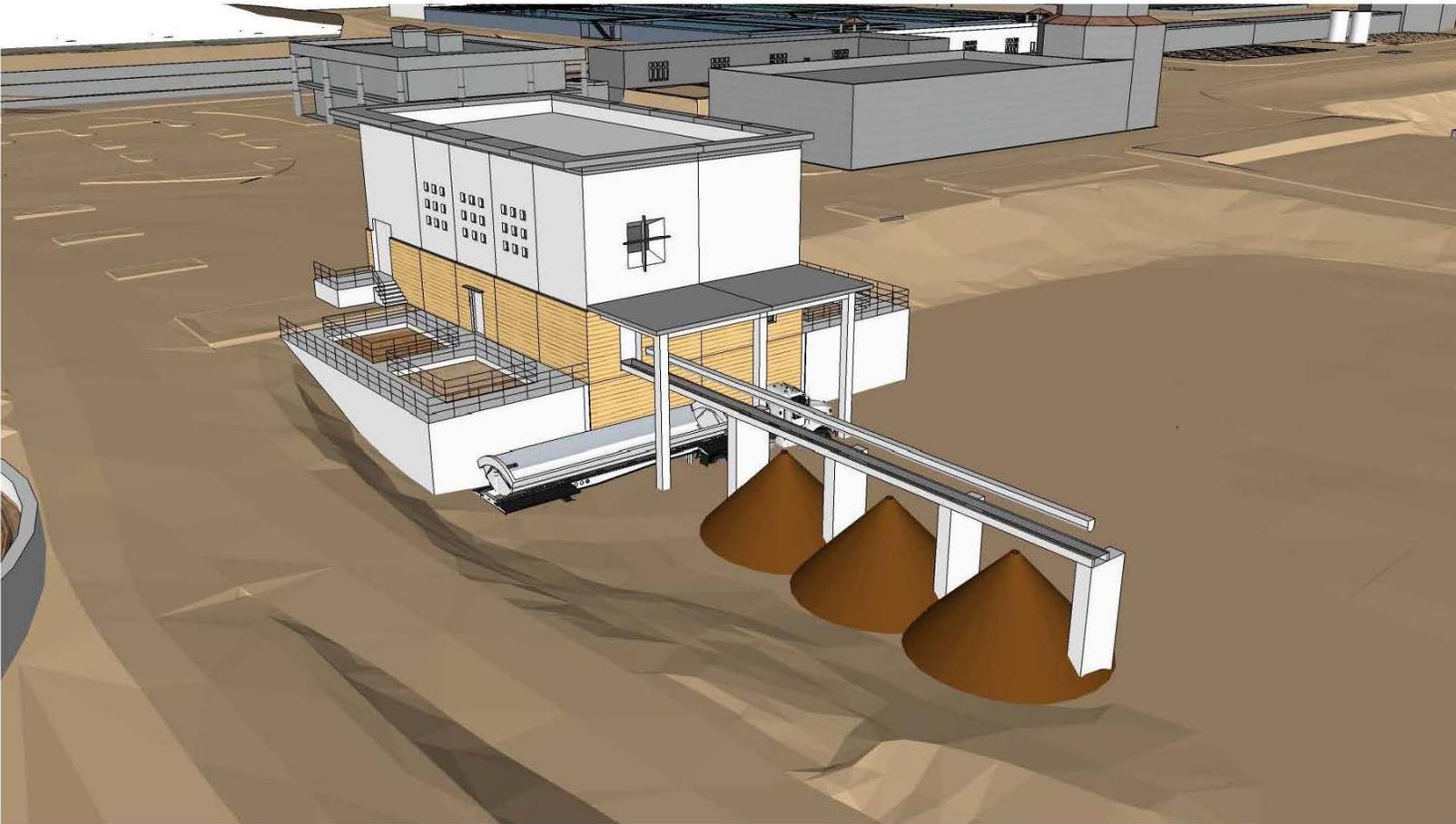
Close Up View from southwest of High Service Pump Station



View from southeast of Dewatering Building



View from northeast of Dewatering Building



View from northwest of Dewatering Building



View from southwest of Dewatering Building



View from southwest of East Filter Addition



View from north of East Filter Addition



View from northeast of new Basins 3 and 4



Attachment 7: River District Landmarks Ordinance (Ord. 2011-011)

ORDINANCE NO. 2011-011

Adopted by the Sacramento City Council

February 15, 2011

NOMINATION OF NINE INDIVIDUAL PROPERTIES IN THE RIVER DISTRICT AS LANDMARKS AND NOMINATION OF THE NORTH 16TH STREET HISTORIC DISTRICT AND ITS' CONTRIBUTING RESOURCES, FOR LISTING IN THE SACRAMENTO REGISTER OF HISTORIC AND CULTURAL RESOURCES (M10-012)

BE IT ENACTED BY THE COUNCIL OF THE CITY OF SACRAMENTO:

Section 1

The Sacramento Register of Historic and Cultural Resources is amended by adding the properties located at 116 North 16th Street, 101 Bercut Drive and related structure in the Sacramento River, 400 Jibboom Street, 1341 North C Street, 700 Dos Rios, 950 Richards Boulevard, 521 North 10th Street, 1100 Richards Boulevard, and the Jibboom Street Bridge, at Discovery Park, as Landmarks. The Sacramento Register of Historic and Cultural Resources is also amended by adding the North 16th Street Historic District and its' Contributing Resources.

The Preservation Director made the preliminary determination that the properties are eligible under the following Criterion:

116 North 16th Street (Pipe Works)

iii – embodies the distinctive characteristics of a type, period or method of construction.

Bridge Located in Discovery Park (Jibboom Street Bridge)

i – associated with events that have made a significant contribution to the broad patterns of the history of the city

iii – embodies the distinctive characteristics of a type, period or method of construction.

101 Bercut and associated structure in the Sacramento River (Water Treatment Plant)

i – associated with events that have made a significant contribution to the broad patterns of the history of the city and region

iii – embodies the distinctive characteristics of a type, period or method of construction

iv – represents the work of an important creative individual or master

400 Jibboom Street (PG&E Sacramento River Power Station "B")

i – associated with events that have made a significant contribution to the broad patterns of the history of the city and region

iii – embodies the distinctive characteristics of a type, period or method of construction

iv – represents the work of an important creative individual or master

1341 N. C Street (Fire Station #14)

iii – embodies the distinctive characteristics of a type, period or method of construction

iv – represents the work of an important creative individual or master

700 Dos Rios Road (Dos Rios School / Smythe Academy)

iii – embodies the distinctive characteristics of a type, period or method of construction

iv – represents the work of an important creative individual or master

950 Richards Boulevard (Sacramento Theatrical Lighting)

i – associated with events that have made a significant contribution to the broad patterns of the history of the city and region

iii – embodies the distinctive characteristics of a type, period or method of construction

iv – represents the work of an important creative individual or master

521 N. 10th Street (Volker Flooring)

iii – embodies the distinctive characteristics of a type, period or method of construction

1100 Richards Boulevard (Zellerbach Paper Company / UHaul)

i – associated with events that have made a significant contribution to the broad patterns of the history of the city and region

iii – embodies the distinctive characteristics of a type, period or method of construction

North 16th Street Historic District

Geographically-definable area possessing significant concentration or continuity of buildings unified by past events/functions and aesthetically by physical development; associated with significant period important in the history of the city.

Section 2

Sacramento City Code Section 17.134.180 prescribes that the Significant Feature(s) or Characteristic(s) of the resources to be added to the Sacramento Register shall be identified in the designating Ordinance.

116 North 16th Street (Pipe Works)

Period of significance: 1923-1948

Contributing features include but are not limited to: Original 1923 structure with symmetrical arrangement of exterior elements and forms; tall, arched glazed openings on east/primary

Ordinance 2011-011

February 15, 2011

2

façade; projecting central monitor roof; multi-paned metal sash windows with larger central arched opening incorporating double doored entry; north and south-facing elevations are divided into bays with large rectangular banks of multi-paned metal sash windows; interiors with large/tall open spaces supported by timber supports/trusses; brick exterior material; flat roof with parapet; 4 mature Italian cypress along North 16th Street.

Bridge Located in Discovery Park (Jibboom Street Bridge)

Period of significance: 1931-1950

Contributing features include but are not limited to: Combined cantilever and swing bridge with two traffic lanes and three spans; center pier swing bridge; steel construction on concrete piers with main span of 341 feet and two secondary Parker truss spans of 139 feet each; metal railing design; metal color; curved, arched concrete railings at each end, with dedication plaque at south end entry onto bridge.

101 Bercut (Water Treatment Plant)

Period of significance: 1921-1948

Contributing features include but are not limited to, and noting a new recommendation from the Preservation Director to herein add the Coagulant Building to the contributing features, which Staff had mistakenly omitted in their recommendations to the Preservation Director: Four principal structures in landscaped, City-Beautiful inspired park-like setting of lawn with shrubs and trees on the main plant site, including: 1) the Pumping Station, its' form, materials, classical revival elements, quoined corners and centered entry with encircling frieze with incised inscription; tall rectangular multi-paned metal sash windows; 2) the Head Building (Administration Building) 2-story, octagonal, cream-colored concrete and stucco structure with clay-tiled conical roof and cupola, exterior circular drum between walls and roof's inscribed names of well-known scientists and inventors and two inscriptions; 3) the Concrete Filter Building attached to Head House on the east, long 1-1/2 story, multi-windowed flat-roofed structure partly below grade; and 4) the Coagulant Building, plaster sided rectangular building with encircling frieze with incised inscription, and classical revival elements. . Also included is the associated Water Intake Structure in Sacramento River to west of Plant, on an axis with the Pump Station, Head House, and Filter Building, with cream colored exterior, oval shaped base supporting encircling projecting deck and oval upper structures, curved form and covered with partially conical clay tile roof, flanking entry "gates" to suspension bridge walkway from tower to shore with "gates" at each end for cable supports, cream plaster with river-height indicator, multi-paned windows and mooring rings.

400 Jibboom Street (PG&E Sacramento River Power Station "B")

Period of Significance:

1912 – 1948

Contributing features include but are not limited to: Classical Revival/Beaux Arts exterior design elements with L-shaped reinforced concrete with steel frame massing, multi-paned window openings, parapets, roof monitors; 4 missing tall metal stacks above north/south section of building; massive classical door at primary/western façade with arched frame surmounted with ornate cartouche, north and south facades contain tall blind arches, encircling roof parapet contains shallow pediment form above each arch element; setting facing the Sacramento River relatively open, was to have been generally park-like; interiors of

two large sections of the building generally open, missing machinery and metal catwalks in east/west oriented section of building.

1341 N. C Street (Fire Station #14)

Period of Significance:

1948-1960 (1960 period of significance date for 50-year time prior to this report date.)

Contributing features include but are not limited to: Painted brick exterior, 2 story in simplified Moderne style with shallow horizontal projecting bands of brick wrapping around the building at the cornice and above and below second floor windows and around truck doors and above first floor windows; two large truck doors on primary/south façade; flat roof behind parapet

700 Dos Rios Road (Dos Rios School / Smythe Academy)

Period of Significance:

1951-1960 (1960 period of significance date for 50-year time prior to this report date.)

Contributing features include but are not limited to: 1-story, strong horizontal oriented form, Moderne style and decorative elements with enlarged round corner entry and curving stairway, ornamental details and side classroom wings extending at roughly 90 degree angle; horizontal bands of windows and window banks, multi-paned metal sash windows, scalloped trim beneath shallow projecting eave; interior reflects curving entry elements and open "streamline" forms; setting of building, set back with lawn from the street and large sycamore street trees.

950 Richards Boulevard (Sacramento Theatrical Lighting)

Period of Significance:

1951-1960 (1960 period of significance date for 50-year time prior to this report date.)

Contributing features include but are not limited to: Mid-Century Modern style, especially in facades, and forms/entry features in primary entry/offices section of structure relative to massing arrangements, window and door arrangements/design/materials, combination of exterior facades in concrete plaster and brick materials with colors emphasizing vertical and horizontal openings. Three large arched roof truss sections behind office section with expansive open interior warehouse area supported by intricate wood truss systems.

521 N. 10th Street (Volker Flooring)

Period of Significance:

1949-1959

Contributing features include but are not limited to: 1 story reinforced concrete with painted cement plaster walls and shallow hip roof; L-shaped building with prominent angled corner entry, recessed and framed by scored and rounded supports and two vertically fluted panels topped with rectangular deco-styled panels; west elevation with large multi-paned industrial sash windows; south elevation smaller multi-paned horizontal windows at upper portion of walls past one larger multi-paned opening flanking the corner entry.

1100 Richards Boulevard (Zellerbach Paper Company / UHaul)

Period of Significance:

1949

Contributing features include but are not limited to: 1-1/2 story building covering 160,000 square feet or reinforced concrete and steel surfaced with cement plaster; north façade/office entry section shorter 1-story with glassed entry with three columns, pylon of horizontal field stone; north east corner façade contains continuous band of windows wrapping corner beneath shallow metal canopy with "streamlined" fascia and glass block; western end façade has paired windows at same height; major element is warehouse area with roof containing eight long parallel banks of monitors facing north. Rear elevation façade surfaced with corrugated metal sheathing.

North 16th Street Historic District

Period of Significance: 1921-1959

Character-defining features include but are not limited to: Various sized 1 to 2-1/2 story (with high floor to ceiling dimensions) structures, from large footprint warehouse/distribution/manufacturing structures to smaller accessory structures and commercial structures; primarily industrial type with large truck bays and several with concrete loading docks and truck ramps which are primarily located along the east/west streets in the district; also commercial type structures with showroom windows, generally along N. 16th St.; most structures built to property lines and oriented to transportation alignments, whether streets or rail lines, for car, truck and rail related operations, with some exterior walls curving along the rail spur alignments; most east/west streets and rail spur alignments are not developed with standard curbs/gutters/sidewalks/planter strips/street trees since were given over to support the uses' transport/loading/unloading functions; many structures exhibit brick exteriors with various types of brickwork and decorative cornices, parapets, blind arches, etc., and while most unpainted, some are painted brick. Buildings with parapets surrounding flat/bowed roofs exhibit various parapet shapes, including stepped, arched and other. Other exterior materials include corrugated metal, reinforced concrete, concrete block, plaster, and wood siding, and several exhibit corrugated metal and Spanish tile roofs. Many with industrial metal sash windows. Interiors of many are large open areas; wood timber truss or metal support structures.

Section 3

Pursuant to Sacramento City Code Sections 17.134.170 and 17.134.180 and based on the duly noticed hearing conducted by the Preservation Commission and City Council, the staff reports and nomination materials attached thereto, and the testimony presented at the hearing on the nomination, the City Council makes the following findings in support of its action to designate the properties located at 116 North 16th Street, 101 Bercut Drive, 400 Jibboom Street, 1341 North C Street, 700 Dos Rios, 950 Richards Boulevard, 521 North 10th Street, 1100 Richards Boulevard, the Jibboom Street Bridge, and the North 16th Street Historic District and its' Contributing Resources and to place them in the Sacramento Register:

The properties meet the Criteria for Sacramento Register Landmark eligibility pursuant to Sacramento City Code Title 17, Chapter 17.134, section 17.134.170-C (1-5):

- A. The nominated resource located at **116 North 16th Street** (002-0051-002) meets Criterion iii – "Embodies the distinctive characteristics of a type, period or method of construction."

- B. The nominated resource located at **101 Bercut Drive** (001-0210-038) and associated structure in the Sacramento River west of the plant, meets Criterion i. "Associated with events that have made a significant contribution to the broad patterns of the history of the city and region," and iii – "Embodies the distinctive characteristics of a type, period or method of construction," and iv – "Represents the work of an important creative individual or master."
- C. The nominated resource at **400 Jibboom Street** (001-0190-004) meets Criterion i – "Associated with events that have made a significant contribution to the broad patterns of the history of the city and region," and iii – "Embodies the distinctive characteristics of a type, period or method of construction," and iv – "Represents the work of an important creative individual or master."
- D. The nominated resource at 1341 North C Street (001-0130-007) meets Criterion iii – "Embodies the distinctive characteristics of a type, period or method of construction," and iv – "Represents the work of an important creative individual or master."
- E. The nominated resource at 700 Dos Rios (001-0082-001) meets Criterion iii – "Embodies the distinctive characteristics of a type, period or method of construction," and iv – "Represents the work of an important creative individual or master."
- F. The nominated resource at 950 Richards Boulevard (001-0031-008) meets Criterion i – "Associated with events that have made a significant contribution to the broad patterns of the history of the city and region," and iii – "Embodies the distinctive characteristics of a type, period or method of construction," and iv – "Represents the work of an important creative individual or master."
- G. The nominated resource at 521 North 10th Street (001-0081-006) meets Criterion iii – "Embodies the distinctive characteristics of a type, period or method of construction."
- H. The nominated resource at 1100 Richards Boulevard (001-0090-005) meets Criterion i – "Associated with events that have made a significant contribution to the broad patterns of the history of the city and region," and iii – "Embodies the distinctive characteristics of a type, period or method of construction."
- I. The nominated resource at the Jibboom Street Bridge (no APN) meets Criterion i – "Associated with events that have made a significant contribution to the broad patterns of the history of the city," and iii – "Embodies the distinctive characteristics of a type, period or method of construction."

- J. The nominated resource for the North 16th Historic District generally includes properties east of Ahern Street, south of Richards Boulevard, north of C Street, and to the west of 18th Street, Sacramento, CA. Addresses and APNs include 500 N. 16th Street (001-0103-009) Contributing; Adjacent to 1517 McCormack Street (001-0141-002) Contributing; 440 N. 16th Street (001-0141-013) Contributing; 430 North 16th Street (001-0141-014) Noncontributing; 420 North 16th Street (001-0141-015) Noncontributing; 410 N. 16th Street (001-0141-016) Contributing; 400 N. 16th Street (001-0141-017) Contributing; 1448-1503 McCormack Avenue (001-0141-021 and 001-0141-022) Contributing; 470 N. 16th Street (001-0141-024) Contributing; 1517 McCormack Avenue (001-0141-025) Contributing; Adjacent to 1401 North C Street (001-0142-002) Contributing; 324 N. 16th Street (001-0142-010 and 001-0142-011 and 001-0142-012) Noncontributing; 318 N. 16th Street (001-0142-013) Contributing; 1527 N. C Street (001-0142-014) Contributing; 1401-1451 N. C Street (001-0142-018) Contributing; 1501 N. C Street (001-0142-019) Contributing; 1515 N. C Street (001-0142-020) Contributing; Adjacent to 200 N. 15th Street (001-0151-001) Contributing; Adjacent to 200 N. 15th Street (001-0151-002) Contributing; 200 North 16th Street (001-0151-005) Contributing; 1610-1616 N. C Street (001-0152-004 and 001-0152-005 and 001-0152-006) Contributing; 1615 Thorton Avenue (001-0152-017) Contributing; 221 N. 16th Street (001-0152-018) Contributing; 235 N. 16th Street (001-0152-019) Contributing; 211-217 N. 16th Street (001-0153-001) Contributing; 116 N. 16th Street (002-0051-002) Contributing; 121 N. 16th Street (002-0053-003) Noncontributing; 131 N. 16th Street (002-0053-004) Contributing; 83 N. 17th Street (002-0054-001) Contributing; 1601 N. A Street (002-0055-002) Contributing; Adjacent to 1601 A Street (002-0055-001 and 002-0055-005 and 002-0055-006 and 002-0055-007 and 002-0055-008 and 002-0055-009 and 002-0055-010 and 002-0055-011) Noncontributing. The property is eligible under the following Criterion: Geographically-definable area possessing significant concentration or continuity of buildings unified by past events/functions and aesthetically by physical development; associated with significant period important in the history of the city.
- K. In addition, the nominated resources have integrity of location, design, setting, materials, workmanship and association; and
- L. The nominated resources have important historic or architectural worth, and their designation as landmarks is reasonable, appropriate, and necessary to protect, promote, and further the goals of this chapter, pursuant to Sacramento City Code Title 17, Chapter 17.134, section 17.134.170-C (b-c).

Adoption of these Landmarks promotes the maintenance and enhancement of the significant features and characteristics of the Landmarks pursuant to the Secretary of the Interior's Standards for the Treatment of Historic Properties.

Adoption of these Landmarks promotes the maintenance and enhancement of the historic materials and fabric, as well as the appearance, of the Landmarks.

Adoption of these Landmarks is consistent with the City's Historic & Cultural Resources Element of the 2030 General Plan.

Adoption of these Landmarks will afford the properties the use of the California Historical Building Code and eligibility for any future preservation incentives that may be adopted for listed properties.

Adoption of these Landmarks helps to protect historic resources of the City of Sacramento.

Section 4

The Preservation Director of the City of Sacramento is hereby directed to add the properties located at 116 North 16th Street, 101 Bercut Drive and associated structure within the Sacramento River, 400 Jibboom Street, 1341 North C Street, 700 Dos Rios, 950 Richards Boulevard, 521 North 10th Street, 1100 Richards Boulevard, and the Jibboom Street Bridge in Discovery Park as Landmarks, and add the North 16th Street Historic District and its' Contributing Resources, to the Sacramento Register of Historic and Cultural Resources.

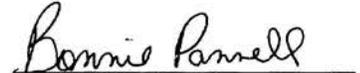
Adopted by the City of Sacramento City Council on February 15, 2011 by the following vote:

Ayes: Councilmembers Ashby, Cohn, D Fong, R Fong, McCarty, Pannell, Schenirer, Sheedy.

Noes: None.

Abstain: None.

Absent: Mayor Johnson.


Bonnie Pannell, Vice-Mayor

Attest:


Shirley Concolino, City Clerk

Passed for Publication: February 11, 2011
Effective: March 16, 2011

Attachment 8: Historic Survey Form

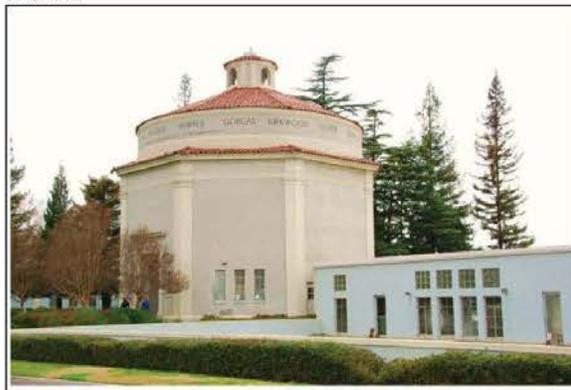
State of California — The Resources Agency DEPARTMENT OF PARKS AND RECREATION		Primary # _____ HRI # _____
PRIMARY RECORD		Trinomial _____ NRHP Status Code <u>35</u>
Other Listings _____	Review Code _____	Reviewer _____ Date _____

Page 1 of 1 Resource Name or #: Sacramento River Water Filtration Plant
P1. Other Identifier: Sacramento River Water Treatment Plant
***P2. Location:** *a. County Sacramento b. USGS 7.5' Quad Sacramento West Date 1967
 c. Address: 101 Bercut Drive City Sacramento Zip 95814
 *e. Other Locational Data: APN#: 001-0210-038
***P3a. Description:**

The Sacramento River Water Filtration Plant is located to the east of Interstate 5 Freeway just north of downtown Sacramento. The Plant complex is comprised of three principal structures, a below grade reservoir, and various tanks, pumps and holding ponds, placed in a landscaped setting of lawn with mature trees and shrubs.

The Pumping Station, one of the three main buildings, is sited closest to the eastern side of the I-5 Freeway. This building is a one story, rectangular concrete structure with a flat roof and minor Classical Revival references. Building corners and the centered entry are quoined, and an encircling frieze beneath the cornice bears the incised inscription, "And Everything Shall Live Whithersoever the River Cometh, Ezekiel, XLVII-9". The interior is lit by tall, rectangular, multi paned, metal-sashed windows. Some alterations to the base of this building have occurred. The building is in good condition.

***P3b. Resource Attributes:** HP9
***P4. Resources Present:** Building Structure Object Site District Element of District Other (isolates, etc.)



P5b. Description of Photo:
View to Northwest 02/09
***P6. Date Constructed/Age and Source:** Historic
 Prehistoric Both
 1921 Factual
***P7. Owner and Address:**
 City of Sacramento
 Real Estate Div.,
 1023 J Street
 Sacramento, CA 95814
***P8. Recorded by:**
 Paula Boghosian, HEC
 5420 Home Court
 Carmichael, CA 95608_
***P9. Date Recorded:**
 7/95, 9/97, 3/2009
***P10. Survey Type:**
 Intensive

P11. Report Citation*: Richards Blvd. Area Architectural and Historical Property Survey, Historic Environment Consultants, January 1999.
***Attachments:** NONE Location Map Sketch Map Continuation Sheet Building, Structure, and Object Record
 Linear Resource Record Archaeological Record District Record Milling Station Record Rock Art Record
 Artifact Record Photograph Record Other (List)

State of California — The Resources Agency DEPARTMENT OF PARKS AND RECREATION	Primary # _____ HR# _____
BUILDING, STRUCTURE, AND OBJECT RECORD	

Page 1 of 1 *NRHP Status Code 35

*Resource Address: 101 Bercut Drive

B1. Historic Name: Sacramento River Water Treatment Plant

B2. Common Name: Sacramento River Water Treatment Plant

B3. Original Use: Water Treatment Plant B4. Present Use: Water Treatment Plant

*B5. Architectural Style: Classical Revival/Beaux Arts influences

*B6. Construction History

The building was constructed in 1921.

*B7. Moved? No Yes Unknown Date: _____ Original Location: _____

*B8. Related Features: The complex contains several structures and buildings, as described, including the water intake facility in the Sacramento River.

B9a. Architect: Dean & Dean b. Builder: Mathews Construction Co.

*B10. Significance: Theme Public Utility in an industrial area

Area Richards Blvd. Special Planning District

Period of Significance 1921-1948 Property Type Water Treatment Plant Applicable Criteria C

The Sacramento River Water Treatment Plant was the most modern facility of its kind in the United States at the time of its construction in 1921. The dedication ceremony included the starting of the plant's pumps by Mrs. Calvin Coolidge through an electrical impulse transported by telegraph from the White House in Washington, D.C. According to Plant information, it was the first filtration plant constructed west of the Rockies. It was one of the most modern, state-of-the-art facilities of its kind in the country at the time of its construction. The complex received designation as a national American Water Works Association historical landmark in 1987.

In addition to historic importance, the buildings of the complex, particularly the Pumping Station and the Administration Building, are handsome and elegant examples of classical revival style variations, unusually graceful for essentially functional public works buildings. With their park-like setting, they represent the implementation of "City Beautiful" ideals in a utilitarian context.

The Head House, Pump House and Coagulant Buildings are the principal agents of the Beaux Arts architectural design and style complex. The pools, aeration ponds and storage facilities also located on the property are functional elements of the plant's activities and are utilitarian in nature.

The complex possesses both historical and architectural/engineering significance, has retained a substantial degree of integrity, and appears to meet eligibility criteria for listing in the National Register of Historic Places, the California Register of Historical Resources, and the Sacramento Register as a Landmark property.

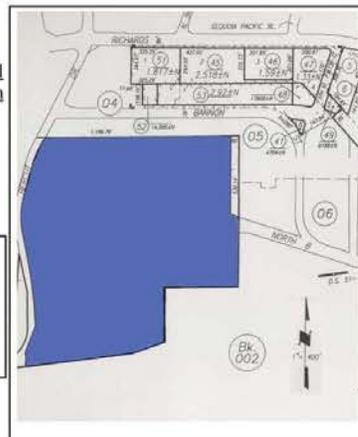
B11. Additional Resource Attributes: None

*B12. References:
Sacramento Survey III, Richards Blvd. Area Architectural and Historical Survey, Sacramento City Information Brochure

B13. Remarks:

*B14. Evaluator: Paula Boghosian, HEC

*Date of Evaluation: 7/95, 9/97, 3/2009



(This space reserved for official comments.)

DPR 523B-Test (8/94)

State of California — The Resources Agency DEPARTMENT OF PARKS AND RECREATION	Primary # _____ HR# _____
BUILDING, STRUCTURE, AND OBJECT RECORD	
Continuation Sheet, p. 3 of 3	

Sacramento River Water Treatment Plant, 101 Bercut Drive

P3a., continued

The Head Building (Administration Building) is a two story octagonal structure of concrete and stucco with a clay-tiled conical roof and cupola. On the exterior, the circular drum between walls and roof contains inscribed names of well-known inventors and scientists, and two inscriptions. Alterations include the enlargement of windows. The building is in good condition. The concrete Filter Building, attached on the east, is a long, one and one-half story, multi-windowed, flat-roofed structure, partly below grade. The tanks and ponds lie to the south of the structure.

With an estimated output of 48 million gallons per day, the plant was an example of the rapid sand filtration technique, utilizing an intake pier, grit removal and storage stations, coagulating tanks, sedimentation basins, a head house and chlorine plant, filters and a clear water reservoir. The plant's channeling system was based on the gravity flow design, utilizing 40 inch wide pipes carrying water from the Sacramento River 1100 feet to the pumping station. A new reservoir was added by 1950, and a lime treatment facility was constructed in 1960.

An associated structure lies to the west in the Sacramento River, approximately 30' from shore, housing a water intake system and accompanying functions. The structure is approximately two stories in height (above water level), with an oval shaped base supporting an encircling projecting deck and oval upper building. The north and south ends of the structure above deckline are curved in form and covered with partially conical clay-tiled roofs. They flank an entry tower with support cables for the suspension bridge walkway that extends to the tower on shore. The structure is surfaced with stucco, fitted with a river height indicator, multi-paned windows and mooring rings.

A series of recent updates and construction has occurred on the east half of the property. Old settling ponds in that area have been replaced by new buildings. A new main office building has been added as well as a new tower structure that reflects the original head house in design. A new concrete settling/filtration pond has been added to the east of the original concrete settling/filtration ponds. The main entrance has been moved from Bercut Drive to 1 Water Street on the opposite side of the property, and enclosed by large gates.

Attachment 9: Draft Mitigation Reporting Program

*SACRAMENTO WATER TREATMENT PLANTS
REHABILITATION PROJECT (Z14006000)
MITIGATION REPORTING PROGRAM*

Sacramento Water Treatment Plants Rehabilitation Project Mitigation Reporting Program

In January 1989, Assembly Bill 3180 went into effect requiring the City to monitor all mitigation measures applicable to this project and included in the Mitigated Negative Declaration. For this project, mitigation reporting will be performed by the City of Sacramento Department of Transportation in accordance with the monitoring and reporting program developed by the City to implement AB 3180.

This Mitigation Reporting Program is being prepared for the Community Development Department, Environmental Planning Services, 300 Richards Boulevard, 3rd Floor, Sacramento, CA 95811, pursuant to the California Environmental Quality Guidelines, Section 21081.

- Project Number:** Z14006000
- Project Name:** Sacramento Water Treatment Plants Rehabilitation Project
- Project Location:** E.A. Fairbairn Water Treatment Plant (EAFWTP) is located east of California State University at Sacramento (CSUS) and south of the American River and consists of Assessor's Parcel Numbers (APN): 005-0010-011, -012. The Sacramento River Water Treatment Plan (SRWTP) is located east of Interstate 5 and the Sacramento River near Richards Boulevard and consists of APNs: 001-0210-038, 001-0064-015, 001-0210-024, and 001-0061-025.
- Project Description:** The proposed Water Treatment Plant Rehabilitation project consists of replacing existing outdated equipment and facilities, constructing solids handling and other miscellaneous improvements at the treatment plants. The project does not increase the capacity of either the SRWTP or the EAFWTP. At SRWTP the existing flocculation and sedimentation Basins 1 and 2, old filters 1 through 16 and pump station will be replaced with new facilities. To construct these new facilities, Basin 2 and the former 911 Call Center building north of the plant will be demolished. Basin 1, pump station and old filters 1 through 16 will be decommissioned, but not demolished. The project includes acquisition of two parcels totaling approximately three acres at the SRWTP site, new solids handling improvements and miscellaneous electrical/process improvements. At EAFWTP, the existing FWW basins will be retrofitted with mechanical sludge collection systems. A new dewatering building will be constructed and fitted with equipment to dewater solids. The existing chlorine system will be expanded and other improvements to the electrical and operating system will be installed as required.

**MITIGATION REPORTING PROGRAM CHECKLIST FOR THE
SACRAMENTO WATER TREATMENT PLANTS REHABILITATION PROJECT (Project #Z14006000)**

Mitigation Measure	Timing of Implementation	Reporting/ Responsible Party	VERIFICATION OF COMPLIANCE	
			Initials	Date
1. BIOLOGICAL RESOURCES				
<p>MITIGATION MEASURE BIO-1.</p> <p>The Department of Utilities shall implement the following measures to minimize impacts to nesting special-status birds:</p> <ul style="list-style-type: none"> To the maximum extent possible, trees shall be removed during the non-breeding season for most birds (i.e., September 16 to February 14). If construction activity is scheduled to occur during the typical nesting season for Swainson's hawk and other raptors (i.e., February 15 to September 15), the project applicant shall retain a qualified biologist to conduct preconstruction surveys and to identify active nests within 500 feet of the project site. The surveys shall be conducted within 14 days and no more than 30 days before the beginning of project activity. If active nests are found, impacts on nesting special-status birds shall be avoided by establishment of appropriate buffers around the nests. No project activity shall commence within the buffer area until a qualified biologist confirms that any young have fledged and the nest is no longer active. The buffer may be adjusted based on a recommendation from a qualified biologist in consultation with the state Department of Fish and Game, if the construction activities are unlikely to disturb the nest. A biological monitor may be required to ensure that nest abandonment or failure does not occur. If no nests are found, no further mitigation is required. 	Prior to and during construction	City of Sacramento / DFG		
<p>MITIGATION MEASURE BIO-2A.</p> <p>The Department of Utilities will consult with the US Fish and Wildlife Service (USFWS) regarding impacts to VELB and will obtain approval for removing and transplanting elderberry plants prior to ground-disturbing activities within 100 feet of elderberry plants. A Habitat Conservation Plan shall be prepared that includes</p>	Prior to and During construction	City of Sacramento / USFWS		

Mitigation Measure	Timing of Implementation	Reporting/ Responsible Party	VERIFICATION OF COMPLIANCE	
			Initials	Date
<p>the following information:</p> <ul style="list-style-type: none"> the effects of the proposed project on VELB; a conservation strategy that describes measures to avoid, minimize and compensate for impacts, including description of the conservation area, relocation plans, replacement plantings, irrigation, and maintenance requirements; an implementation plan that describes monitoring requirements, including performance and success criteria; funding for implementation of the HCP; and procedures to deal with unforeseen circumstances; a description of alternative actions considered that would not result in take; and any additional measures USFWS may require as necessary or appropriate for purposes of the plan. 				
<p>MITIGATION MEASURE BIO-2B.</p> <p>For elderberry shrubs that are to remain on the project site, the following mitigation measures shall be implemented in accordance with the USFWS Conservation Guidelines for the Valley Elderberry Longhorn Beetle (USFWS, 1999).</p> <ul style="list-style-type: none"> Fence and flag all areas to be avoided during construction activities. A minimum setback of at least 20 feet from the dripline of each elderberry plant with stems greater than 1-inch diameter at ground level shall be maintained to avoid direct impacts. The buffer area shall be fenced with high visibility construction fencing prior to commencement of ground-disturbing activities and shall be maintained for the duration of construction activities. Erect signs every 50 feet along the edge of the avoidance area with the following information: "This area is habitat of the valley elderberry longhorn beetle, a threatened species, and must not be disturbed. This species is protected by the Endangered Species Act of 1973, as amended. Violators are subject to prosecution, fines, and imprisonment." The signs shall be clearly readable from a distance of 20 feet, and shall be maintained for the 	Prior to and during construction	City of Sacramento / USFWS		

SACRAMENTO WATER TREATMENT PLANTS
REHABILITATION PROJECT (Z14006000)
MITIGATION REPORTING PROGRAM

Mitigation Measure	Timing of Implementation	Reporting/ Responsible Party	VERIFICATION OF COMPLIANCE	
			Initials	Date
<p>duration of construction.</p> <ul style="list-style-type: none"> Ground disturbing activities on the project site shall not alter the hydrology of the site or otherwise affect the likelihood of vigor or survival of elderberry shrubs. Project activities, such as truck traffic or other use of machinery, shall not create excessive dust on the project site, such that the growth or vigor of elderberry shrubs would be adversely affected. Areas that are disturbed temporarily shall be restored to pre-disturbance conditions. Erosion control measures shall be implemented to restore areas disturbed within 100 feet of elderberry shrubs. No insecticides, herbicides, fertilizers, or other chemicals shall be used within 100 feet of elderberry shrubs. 				
<p>MITIGATION MEASURE BIO-2C.</p> <p>For elderberry plants that cannot be retained in the project area, the following mitigation measures shall be implemented. These measures may be modified based upon the consultation with USFWS.</p> <ul style="list-style-type: none"> If feasible, Elderberry plants that cannot be avoided shall be transplanted. All elderberry plants with one or more stems measuring 1.0 inch or greater in diameter at ground level shall be transplanted to a conservation area consistent with USFWS Conservation Guidelines for the Valley Elderberry Longhorn Beetle, 1999. The conservation area shall be protected in perpetuity and monitoring shall be conducted to ensure that the success criteria are met. If success criteria are not met, remedial actions shall be required. Consultation with the USFWS will specifically define the replanting plan. Additional elderberry seedlings or cuttings and associated native plants shall be planted in a designated conservation area at a ratio consistent with the USFWS's Conservation Guidelines for the Valley Elderberry Longhorn Beetle, 1999 or determined during consultation with USFWS. Each elderberry stem measuring 1.0 inch or greater in diameter at ground level that is adversely affected (i.e., transplanted or destroyed) shall be replaced in the conservation area, with elderberry seedlings or cuttings at a ratio 	Prior to and during construction	City of Sacramento / USFWS		

Mitigation Measure	Timing of Implementation	Reporting/ Responsible Party	VERIFICATION OF COMPLIANCE	
			Initials	Date
ranging from 1:1 to 8:1 (new plantings to affected stems.). A mix of native plants associated with the elderberry plants at the project site or similar sites shall be planted at ratios ranging from 1:1 to 2:1). Table Bio-2 estimates the required conservation plantings required for the project. However, additional conservation plantings may be required if a 20-foot buffer cannot be provided around the elderberry shrubs to be retained. The final number of conservation plantings to be provided shall be determined during consultation with USFWS. Alternatively, compensatory credits may be purchased at an USFWS approved conservation bank				
2. CULTURAL RESOURCES				
<p>MITIGATION MEASURE CUL-1.</p> <p>The City (Department of Utilities) shall prepare a Decommissioning Plan (Plan) for the Pump Station, Head House and West Filter Buildings, for approval by the Preservation Director, prior to decommissioning the structures from active service. The Plan shall include the following provisions:</p> <ul style="list-style-type: none"> ■ Technical Report submitted by JRP that documents historical significance; ■ Written confirmation of physical condition of the buildings, including any need of structural stabilization, signed by a Registered Structural Engineer and the Plant Superintendent; ■ Maintenance of interior ventilation systems in good working order; ■ Plan for inspection of the structures on a periodic basis, to address and correct the following: <ul style="list-style-type: none"> ○ Evidence of, and plan for handling any pest infestation; ○ Moisture penetration to the interior; ○ Adverse condition of the exterior of the building; ○ Failure of the interior ventilation system. <p>The Department of Utilities shall inspect and maintain the affected structures on a regular basis, and shall maintain written records of such inspections and conditions. Prior to the expiration of five years from the date of decommissioning, the Department shall prepare and present to the Preservation Director a proposal for the permanent treatment of the decommissioned structures, consistent with the</p>	Prior to, during, and following construction	City of Sacramento		

SACRAMENTO WATER TREATMENT PLANTS
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MITIGATION REPORTING PROGRAM

Mitigation Measure	Timing of Implementation	Reporting/ Responsible Party	VERIFICATION OF COMPLIANCE	
			Initials	Date
U.S. Department of the Interior standards to the extent feasible.				
<p>MITIGATION MEASURE CUL-2.</p> <p>In advance of construction, an additional identification effort consisting of geoarchaeological trenching shall be conducted at the Fairbairn WTP in the northeast portion of the project area identified to have Rossmoor soils where there is a high potential for buried archaeological resources. If nothing is found during trenching, no additional identification efforts would be necessary. If resources are found proper documentation and removal practices shall be implemented prior to construction activities beginning.</p>	Prior to construction	City of Sacramento		
<p>MITIGATION MEASURE CUL-3.</p> <p>In the northeastern portion of the Sacramento River WTP project area at the location of excavation for the dewatering building and the thickener tanks where there is potential for subsurface features, a qualified historical archaeologist should monitor ground-disturbing activities. In the event test cores are obtained prior to excavation, and reveal no such features, the archaeologist may be utilized on an on-call basis only.</p>	Prior to and during construction	City of Sacramento		
<p>MITIGATION MEASURE CUL-4.</p> <p>In the event that unidentified cultural materials are unearthed during construction, work shall be halted in that area until a qualified archaeologist can assess significance of the find and develop and implement a plan for documentation and removal of resources. Additional survey will be needed if project limits are extended beyond the present survey limits.</p>	During construction	City of Sacramento		
<p>MITIGATION MEASURE CUL-5</p> <p>The historic quarried granite slabs identified on the northeast portion of the Sacramento River WTP project site shall be retained and stored on-site during construction and incorporated into and used as curbing on new road/driveway to</p>	During and following construction	City of Sacramento		

Mitigation Measure	Timing of Implementation	Reporting/ Responsible Party	VERIFICATION OF COMPLIANCE	
			Initials	Date
be constructed as part of the WTP Rehabilitation Project.				
3. HAZARDS				
<p>MITIGATION MEASURE HAZ-1.</p> <p>A preliminary site assessment for asbestos and lead-based paint shall be conducted, consisting of records searches, site reconnaissance, and interviews with knowledgeable persons to determine whether such materials exist in any facilities scheduled for demolition or substantial renovation. This assessment may include limited sampling to further assess the potential of encountering such materials. Abatement and remediation shall be implemented as required by state or federal regulations, and appropriate procedures followed for removal and disposal followed.</p>	Prior to and during construction	City of Sacramento		
4. LIGHT AND GLARE				
<p>MITIGATION MEASURE LIGHT-1.</p> <p>New buildings or renovated facades of existing buildings in the proposed project shall be prohibited from using:</p> <ol style="list-style-type: none"> 1) reflective glass that exceeds 50 percent of any building surface and on the ground three floors; 2) mirrored glass; 3) black glass that exceeds 25 percent of any surface of a building; and, 4) metal building materials that exceed 50 percent of any street-facing surface of a primarily residential building. 	Prior to, during, and following construction	City of Sacramento		
<p>MITIGATION MEASURE LIGHT-2.</p> <p>Exterior lighting at the project site, and any exterior lighting that may be visible from the exterior, shall comply with the following requirements:</p> <ol style="list-style-type: none"> a. Lighting design shall be such as not to produce hazardous and annoying glare to motorists and building occupants, adjacent residents or the public; and 	Prior to, during, and following construction	City of Sacramento		

SACRAMENTO WATER TREATMENT PLANTS
REHABILITATION PROJECT (Z14006000)
MITIGATION REPORTING PROGRAM

Mitigation Measure	Timing of Implementation	Reporting/ Responsible Party	VERIFICATION OF COMPLIANCE	
			Initials	Date
b. Lighting shall be oriented away from adjacent properties, shall not produce a glare or reflection or any nuisance, inconvenience or hazardous interference of any kind on adjoining streets or property. In addition, the source of the light shall not be visible from adjacent property or a public street.				
5. NOISE				
<p>MITIGATION MEASURE NOISE-1.</p> <p>All construction activity on the project sites shall comply with the provisions of City Code Chapter 8.68 relating to noise, including the following:</p> <p>All noise-producing activity on the project sites will be conducted during these hours:</p> <p style="padding-left: 40px;">Monday through Saturday: 7:00 a.m. to 6:00 p.m.;</p> <p style="padding-left: 40px;">Sunday: 9:00 a.m. to 6:00 p.m.</p> <p>Equipment on the project site shall be equipped with suitable exhaust and intake silencers that are in good working order.</p>	During construction	City of Sacramento		
<p>MITIGATION MEASURE NOISE-2.</p> <p>During all periods of construction, the City shall appoint a project manager for each project site, and shall post a conspicuous sign on each project site that identifies the project manager and a telephone number for contacting the individual. The project manager shall have the authority to receive and resolve complaints regarding construction noise.</p>	During construction	City of Sacramento		
<p>MITIGATION MEASURE NOISE-3.</p> <p>Back-up generators that supply emergency electrical power to the facility shall be located, to the extent feasible, in a location that takes advantage of noise barriers, such as buildings on the site, that would shield neighboring properties from direct noise transmission and thus serve to reduce the noise at the property line.</p>	Prior to, during, and following construction	City of Sacramento		

Mitigation Measure	Timing of Implementation	Reporting/ Responsible Party	VERIFICATION OF COMPLIANCE	
			Initials	Date
<p>MITIGATION MEASURE NOISE-4.</p> <p>The following actions shall be taken to reduce impacts to historic structures:</p> <p>(A) To the extent feasible, the historic buildings shall be stabilized and reinforced prior to construction activities adjacent to such buildings.</p> <p>(B) The contractor shall take reasonable precautions to protect historic structures from damage, such as settlement, caused by excavation, trenching, dewatering or other construction activities adjacent to buildings that could affect the integrity of the buildings.</p> <p>(C) Measures shall be taken to reduce or eliminate potential ground settlement of the areas surrounding the historic buildings due to dewatering, excavation or adjacent construction. A pre-excavation settlement-damage survey shall be prepared that shall include, at a minimum, visual inspection of existing vulnerable structures for cracks and other settlement defects, and establishment of horizontal and vertical control points on the buildings. A monitoring program of surveying such horizontal and vertical control points shall be followed to determine the effects of dewatering, excavation and construction. If it is determined by the project engineer that the existing buildings could be subject to damage, work shall cease until appropriate remedies to prevent damage are identified.</p>	Prior to and during construction	City of Sacramento		

Mitigation Measure	Timing of Implementation	Reporting/ Responsible Party	VERIFICATION OF COMPLIANCE	
			Initials	Date
6. TRANSPORTATION & CIRCULATION				
<p>MITIGATION MEASURES TRANS-1</p> <p>Prior to the start of the construction phase at either treatment plant facility, the project applicant shall prepare and submit a Traffic Control Plan to the City of Sacramento, Department of Transportation for review and approval. At a minimum, the plan shall include the following information:</p> <ul style="list-style-type: none"> • The number of truck trips, time, and day of street closures • Time of day of arrival and departure of trucks • Limitations on the size and type of trucks; provision of a staging area with a limitation on the number of trucks that can be waiting • Provision of a truck circulation pattern • Safe and efficient access routes for emergency vehicles • Efficient and convenient transit routes • Manual traffic control when necessary • Proper advance warning and posted signage concerning street closures • Provisions for bicycle and pedestrian safety, especially in the CSUS area 	Prior to and during construction	City of Sacramento		