



PUBLIC NOTICE

U.S. ARMY CORPS OF ENGINEERS
LOS ANGELES DISTRICT

BUILDING STRONG®

APPLICATION FOR PERMIT Lake Street Expansion Project

Public Notice/Application No.: SPL-2012-00188-CLD

Project: Lake Street Expansion Project

Comment Period: July 10, 2012 through August 9, 2012

Project Manager: James Mace; 951-276-6624 x263; James.E.Mace@usace.army.mil

Applicant

Castle & Cooke Lake Elsinore West, Inc.
6455 Alberhill Ranch Road
Lake Elsinore, CA 92530

Contact

Hardy Strozier, Esq., AICP
(714) 556-5200
E-Mail: PlanningAssoc@aol.com

Location

The Lake Street Expansion Project (the Project) is located east and adjacent to Lake Street, beginning just south of Temescal Canyon Wash, and continuing along Lake Street to Nichols Road. The Project is within the City of Lake Elsinore, Riverside County, California (N 33°43' 12.73", W -117° 23' 22.51"). Please refer to the attached Project Vicinity and Location Maps (Figures 1 and 2).

Activity

The applicant proposes to construct/expand a section of Lake Street, from its interchange at Interstate 15 to just beyond Nichols Road, for a total distance of approximately 6,480 linear feet. The Project is part of the Lake Elsinore General Plan, and proposes the relocation of an unnamed ephemeral wash that flows adjacent to Lake Street, through the length of the Project area. The existing ephemeral streambed is proposed to be realigned and altered in three (3) phases, over 15 years, coinciding with Lake Street's improvement. The proposed Project would include Southern California Edison (SCE) power pole realignment and Lake Street widening for increased traffic safety. The 'Old' Lake Street is proposed to be abandoned for automobile use and would be converted to a multimodal roadway consisting of pedestrian/bicycle and equestrian trails, including interpretive trails with signage, landscaping, and access for landscape maintenance of the proposed wash areas.

For more information, see the attached graphics and page 4 of this notice.

Interested parties are hereby notified that an application has been received for a Department of the Army permit for the activity described herein and shown on the attached drawing(s). We invite you to review this public notice and provide views on the proposed work. By providing substantive, site-specific comments to the Corps Regulatory Division, you provide information that contributes to

the Corps' decision-making process. All comments we receive during the comment period will become part of the record to be considered in the decision. This permit will be issued, issued with special conditions, or denied under Section 404 of the Clean Water Act of 1972 (33 U.S.C. 1344). Comments should be mailed to:

U.S. Army Corps of Engineers, Los Angeles District
Regulatory Branch
Riverside Regulatory Field Office
ATTN: James Mace
1451 Research Park Drive
Riverside, California, 92507-2154

Alternatively, comments can be sent electronically to James.E.Mace@usace.army.mil.

The mission of the U.S. Army Corps of Engineers Regulatory Program is to protect the Nation's aquatic resources, while allowing reasonable development through fair, flexible, and balanced permit decisions. The Corps evaluates permit applications for essentially all construction activities that occur in the Nation's waters, including wetlands. The Regulatory Program in the Los Angeles District is executed to protect aquatic resources by developing and implementing short- and long-term initiatives to improve regulatory products, processes, program transparency, and customer feedback considering current staffing levels and historical funding trends.

Corps permits are necessary for any work, including construction and dredging, in the Nation's navigable waters and their tributary waters. The Corps balances the reasonably foreseeable benefits and detriments of proposed projects, and makes permit decisions that recognize the essential values of the Nation's aquatic ecosystems to the general public, as well as the property rights of private citizens who want to use their land. The Corps strives to make its permit decisions in a timely manner that minimizes impacts to the regulated public.

During the permit process, the Corps considers the views of other Federal, state and local agencies, interest groups, and the general public. The results of this careful public interest review are fair and equitable decisions that allow reasonable use of private property, infrastructure development, and growth of the economy, while offsetting the authorized impacts to the waters of the United States. The permit review process serves to first avoid and then minimize adverse effects of projects on aquatic resources to the maximum practicable extent. Any remaining unavoidable adverse impacts to the aquatic environment are offset by compensatory mitigation requirements, which may include restoration, enhancement, establishment, and/or preservation of aquatic ecosystem system functions and services.

Evaluation Factors

The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit, which reasonably may be expected to accrue from the proposal, must be balanced against its reasonably foreseeable detriments. All factors that may be relevant to the proposal will be considered including the cumulative effects thereof. Factors that will be considered include conservation, economics, aesthetics, general environmental concerns, wetlands, cultural values, fish and wildlife values, flood hazards, flood plain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food production and, in general, the needs and welfare of the people. In addition, if the proposal would discharge dredged or fill material,

the evaluation of the activity will include application of the EPA Guidelines (40 CFR Part 230) as required by Section 404 (b)(1) of the Clean Water Act.

The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

Preliminary Review of Selected Factors

EIS Determination- A preliminary determination has been made that an environmental impact statement is not required for the proposed work.

Water Quality- The applicant is required to obtain water quality certification, under Section 401 of the Clean Water Act, from the California Regional Water Quality Control Board. Section 401 requires that any applicant for an individual Section 404 permit provide proof of water quality certification to the Corps of Engineers prior to permit issuance. For any proposed activity on Tribal land that is subject to Section 404 jurisdiction, the applicant will be required to obtain water quality certification from the U.S. Environmental Protection Agency. The applicant has applied for 401 certification with the California Regional Water Quality Control Board, Santa Ana Region.

Coastal Zone Management- This proposed project site is located outside the coastal zone and preliminary review indicates that it would not affect coastal zone resources. A final determination of whether this project affects coastal zone resources will be made by the Corps, in consultation with the California Coastal Commission, after review of the comments received on this Public Notice.

Cultural Resources- The latest version of the National Register of Historic Places (NRHP) has been consulted. The Corps will continue to evaluate potential effects on cultural resources and will make a determination on whether consultation with the State Historic Preservation Officer pursuant to Section 106 of the National Historic Preservation Act of 1966, as amended, is warranted.

Endangered Species- The proposed project site is subject to the Western Riverside Multiple Species Habitat Conservation Plan (MSHCP) and its Biological Opinion prepared during the Section 10a permit process of the MSHCP by the U.S. Fish and Wildlife Service. Preliminary determinations for the proposed project site indicate that the proposed activity would not affect federally listed endangered or threatened species, or their critical habitat. Therefore, formal consultation under Section 7 of the Endangered Species Act does not appear to be required at this time.

Public Hearing- Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearing shall state with particularity the reasons for holding a public hearing.

Proposed Activity for Which a Permit is Required

Basic Project Purpose- The basic project purpose comprises the fundamental, essential, or irreducible purpose of the proposed project, and is used by the Corps to determine whether the applicant's project is water dependent (i.e., requires access or proximity to or sitting within the special aquatic site to fulfill its basic purpose). Establishment of the basic project purpose is necessary only when the proposed activity would discharge dredged or fill material into a special aquatic site (e.g., wetlands, pool and riffle complex, mudflats, coral reefs). The basic project purpose for the proposed project is transportation and utility infrastructure improvement. The project is not water dependent.

Overall Project Purpose- The overall project purpose serves as the basis for the Corps' 404(b)(1) alternatives analysis and is determined by further defining the basic project purpose in a manner that more specifically describes the applicant's goals for the project, and which allows a reasonable range of alternatives to be analyzed. The overall project purpose is the Lake Street road widening/expansion from the I-15 Freeway to the south just beyond Nichols Road, and the Edison (SCE) power pole realignment.

Additional Project Information

Baseline information- The existing unnamed Lake Street ephemeral drainage is almost entirely non-native landscape, having been disrupted over the past 100 years by a series of mining activities that have transpired on approximately 1000 acres in and around the proposed project site. The current vegetation within the proposed project area is approximately 99% non-native, with low wildlife habitat values. The Lake Street unnamed ephemeral drainage varies in width from two feet to approximately 35 feet and flows through the Project's length for a distance of 6,480 lineal feet to Temescal Creek/Wash, a tributary to the Santa Ana River.

Project description- This Lake Street Project proposes to realign and widen Lake Street from Nichols Road north to the Lake Street/I-15 Interchange, which includes shoulders, drainage underpasses for both water and animal crossings, and the three-phased development and relocation of approximately 6,480 linear feet (1.31 acres of ACOE jurisdiction) of unnamed ephemeral drainage, located east of and adjacent to Lake Street.

The existing ephemeral streambed would be excavated and filled and shaped with native soil to have a variable bottom channel width of approximately 10 feet to 80 feet, with a top of slope channel width of approximately 40 feet to 160 feet, which would run along the north side of Nichols Road and the east side of Lake Street. Ultimately, a constant source of water would be supplied to the channel from adjacent urban runoff and artesian groundwater to maintain and sustain the newly planted native riparian vegetation. In the interim, a temporary irrigation system would be utilized. The slopes adjacent to the riparian wash channel area would be re-vegetated with a native riparian woodlands palette and would be interconnected with the planned wildlife corridors throughout the planning areas and provide wildlife cover for movement from one habitat area to another. In the future, at ultimate build-out of the planning areas, there would be a series of nine (9) under-road wildlife crossings using 6-foot high x 10-foot wide arch pipes. For high-flow storm runoff conditions, an underground storm drain system within the proposed Lake Street alignment would be constructed to alleviate potential severe flooding in the restored streambed areas.

The Project would be constructed in three (3) phases over a period of 15 years (see Figure 3). Proposed grading within the ACOE jurisdictional limits would require fill material consisting of clean native soil and rock rip rap, with a total Project fill volume estimated at 47,000 Cubic Yards (CY) [Phase 1 = 11,000 CY; Phase 2 = 1,000 CY; and Phase 3 = 35,000 CY].

Proposed Mitigation– The proposed mitigation may change as a result of comments received in response to this public notice, the applicant's response to those comments, and/or the need for the project to comply with the section 404(b)(1) guidelines. In consideration of the above, the proposed mitigation sequence (avoidance/minimization/compensation), as applied to the proposed project, is summarized below.

The applicant has indicated the proposed project has been designed to limit grading to the minimum extent necessary to implement the proposed project. If authorized, during project installation the applicant proposes to implement the following impact minimization measures:

1. Should environmentally sensitive (ES) areas be found on-site, these areas will be delineated in the field with bright orange ES fencing during construction.
2. Storm water runoff, surface erosion, and siltation will be controlled during construction with implementation of standard storm water best management practices (BMPs), which will be specified in the construction contractor's Storm Water Pollution Prevention Plan (SWPPP).
3. Water pollution and erosion control plans will be developed and implemented in accordance with the RWQCB's requirements and will ensure that no fluids or sediment from construction will enter into the ES fenced areas.
4. No erodible materials will be deposited into watercourses or areas demarcated with ES fencing.
5. Brush, loose soils, or other debris material will not be stockpiled within stream channels or on adjacent banks.
6. Work that cannot be conducted without placing equipment or personnel in riparian vegetation will be timed to avoid the breeding season of riparian-associated species identified in the MSHCP Species Objective No.7.
7. If stream flows must be diverted, the diversions will be conducted using natural grading, sandbags or other methods requiring minimal in-stream impacts. Silt fencing or other sediment trapping materials will be installed at the downstream end of construction activity to minimize the transport of sediments offsite. Settling ponds where sediment is collected will be cleaned out in a manner that prevents the sediment from reentering the stream. Care will be exercised when removing silt fences, as feasible, to prevent debris or sediment from returning to the stream.
8. All equipment maintenance, staging, and dispensing of fuel, oil, coolant, or any other toxic substances will occur only in designated areas within the limits of the Project. These designated areas will be clearly marked and located in such a manner as to contain runoff.

Additionally, the applicant proposes to offset any impacts to USACE jurisdiction (estimated at 1.31 acre) with compensatory mitigation at a minimum 1:1 ratio, in-kind and onsite, and would comply with the 2008 Corps-EPA Mitigation Rule (33 C.F.R. Part 332). Additional proposed mitigation efforts proposed for inclusion with project approval and installation, i.e., buffer zones, uplands, etc., are identified in Figure 3. The Corps will evaluate the proposal after consideration of avoidance and minimization measures and in accordance with our regional standard operating procedure for the determination of mitigation ratios.

Proposed Special Conditions

The following list is comprised of proposed Permit Special Conditions, which are required of similar types of projects:

1. The Permittee shall mitigate for permanent impacts to _____ acre of wetland waters of the U. S., through _____ of waters of the U.S. as described in the final, approved mitigation plan: _____. The Permittee shall complete site preparation and planting and initiate monitoring as described in the final, approved mitigation plan. According to the final, approved mitigation plan, responsible parties would be as follows: a) Implementation: _____; b) Performance: _____; c) Long-term management: _____. [For permittee-responsible mitigation: The Permittee retains ultimate legal responsibility for meeting the requirements of the final, approved mitigation plan. Detailed mitigation objectives, performance standards, and monitoring requirements are described in the above final, approved mitigation plan. Any requirements for financial assurances and/or long-term management provisions are also described in the above final, approved mitigation plan. Your responsibility to complete the required compensatory mitigation will not be considered fulfilled until you have demonstrated compensatory mitigation project success and have received written verification of that success from the U.S. Army Corps of Engineers Regulatory Division. Prior to initiating construction in waters of the U.S., the Permittee shall post financial assurance ("financial assurance") in a form approved by the Corps Regulatory Division for the estimated cost of implementing the approved HMMP (including a 20% contingency to be added to the total costs). The purpose of this financial assurance is to guarantee the successful implementation, maintenance and monitoring of the wetland and non-wetland waters creation, restoration, and enhancement work.] [For approved third-party mitigation, such as mitigation banks or in-lieu fee programs, the permittee is does not retain responsibility for performance or long-term management].

2. GIS DATA: Within 60 days following permit issuance, you shall provide to this office GIS data (polygons only) depicting the boundaries of all compensatory mitigation sites, as authorized in the above, final mitigation plan. All GIS data and associated metadata shall be provided on a digital medium (CD or DVD) or via file transfer protocol (FTP), preferably using the Environmental Systems Research Institute (ESRI) shapefile format. GIS data for mitigation sites shall conform to the data dictionary, as specified in the current Map and Drawing Standards for the Los Angeles District Regulatory Division, and shall include a text file of metadata, including datum, projection, and mapper contact information. Within 60 days following completion of compensatory mitigation construction activities, if any deviations have occurred, you shall submit as-built GIS data (polygons only) accompanied by a narrative description listing and explaining each deviation.

3. Prior to initiating construction in waters of the U.S., the Permittee shall submit to the Corps Regulatory Division a complete set of final detailed grading/construction plans showing all work and structures in waters of the U.S. All plans shall comply with the Final Map and Drawing Standards for the Los Angeles District Regulatory Division dated September 21, 2009 (http://www.spl.usace.army.mil/regulatory/pn/SPL-RG_map-drawing-standard_final_w-fig.pdf). All plan sheets shall be signed, dated, and submitted on paper no larger than 11x 17 inches. No work in waters of the U.S. is authorized until the Permittee receives, in writing (by letter or e-mail), Corps Regulatory Division approval of the final detailed grading/construction plans. The Permittee shall ensure that the project is built in accordance with the Corps-approved plans.

4. The Permittee shall clearly mark the limits of the workspace with flagging or similar means to ensure mechanized equipment does not enter preserved waters of the U.S. and riparian wetland/habitat areas shown in the attached figure. Adverse impacts to waters of the U.S. beyond the Corps-approved construction footprint are not authorized. Such impacts could result in permit suspension and revocation,

administrative, civil or criminal penalties, and/or substantial, additional, compensatory mitigation requirements.

5. Within 45 calendar days of completion of authorized work in waters of the U.S., the Permittee shall submit to the Corps Regulatory Division a post-project implementation memo indicating the date authorized impacts to waters of the U.S. ceased.

6. Within 45 calendar days of complete installation of all mitigation, the Permittee shall submit to the Corps Regulatory Division two copies of a memo indicating the following:

- a. Date(s) all mitigation was installed and monitoring was initiated;
- b. Schedule for future mitigation monitoring, implementation and reporting pursuant to final, Corps-approved HMMP;
- c. Summary of compliance status with each special condition of this permit (including any noncompliance previously occurred or currently occurring and corrective actions taken to achieve compliance);
- d. Color photographs taken at the project site before and after construction for those aspects directly associated with impacts to waters of the U.S.; and
- e. One copy of "as built" drawings for the entire project, including all mitigation sites (all sheets must be signed, dated, to-scale, and no larger than 11 x 17 inches).

7. This Corps permit does not authorize you to take any threatened or endangered species, or adversely modify its designated critical habitat. In order to take a listed species legally, you must have separate authorization under the Endangered Species Act (ESA) (e.g. ESA Section 10 permit, or a Biological Opinion (BO) under ESA Section 7, with "incidental take" provisions with which you must comply).

8. Pursuant to 36 C.F.R. section 800.13, in the event of any discoveries during construction of either human remains, archeological deposits, or any other type of historic property, the Permittee shall notify the Corps' Archeology Staff within 24 hours (Steve Dibble at 213-452-3849 or John Killeen at 213-452-3861). The Permittee shall immediately suspend all work in any area(s) where potential cultural resources are discovered. The Permittee shall not resume construction in the area surrounding the potential cultural resources until the Corps Regulatory Division re-authorizes project construction, per 36 C.F.R. section 800.13.

For additional information, please call James Mace of my staff at 951-276-6624 x263 or via e-mail at James.E.Mace@usace.army.mil. This public notice is issued by the Chief, Regulatory Division.



Regulatory Program Goals:

- To provide strong protection of the nation's aquatic environment, including wetlands.
- To ensure the Corps provides the regulated public with fair and reasonable decisions.
- To enhance the efficiency of the Corps' administration of its regulatory program.

U.S. ARMY CORPS OF ENGINEERS – LOS ANGELES DISTRICT
LOS ANGELES DISTRICT, CORPS OF ENGINEERS
P.O. BOX 532711
LOS ANGELES, CALIFORNIA 90053-2325
WWW.SPL.USACE.ARMY.MIL

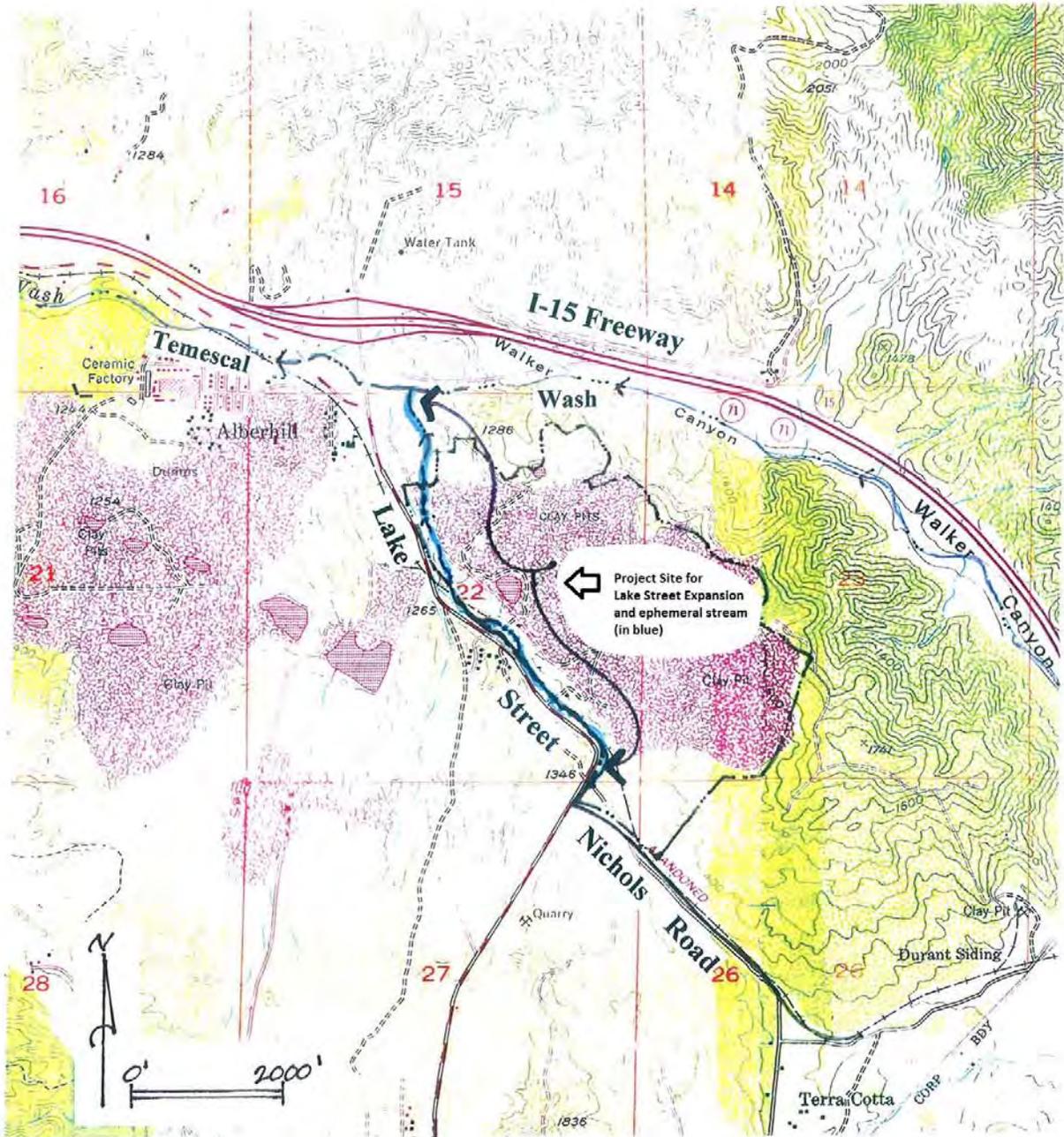
Figure 1. Lake Street Expansion Project
Corps File No. SPL-2012-00188-CLD

VICINITY MAP



Figure 2. Lake Street Expansion Project
Corps File No. SPL-2012-00188-CLD

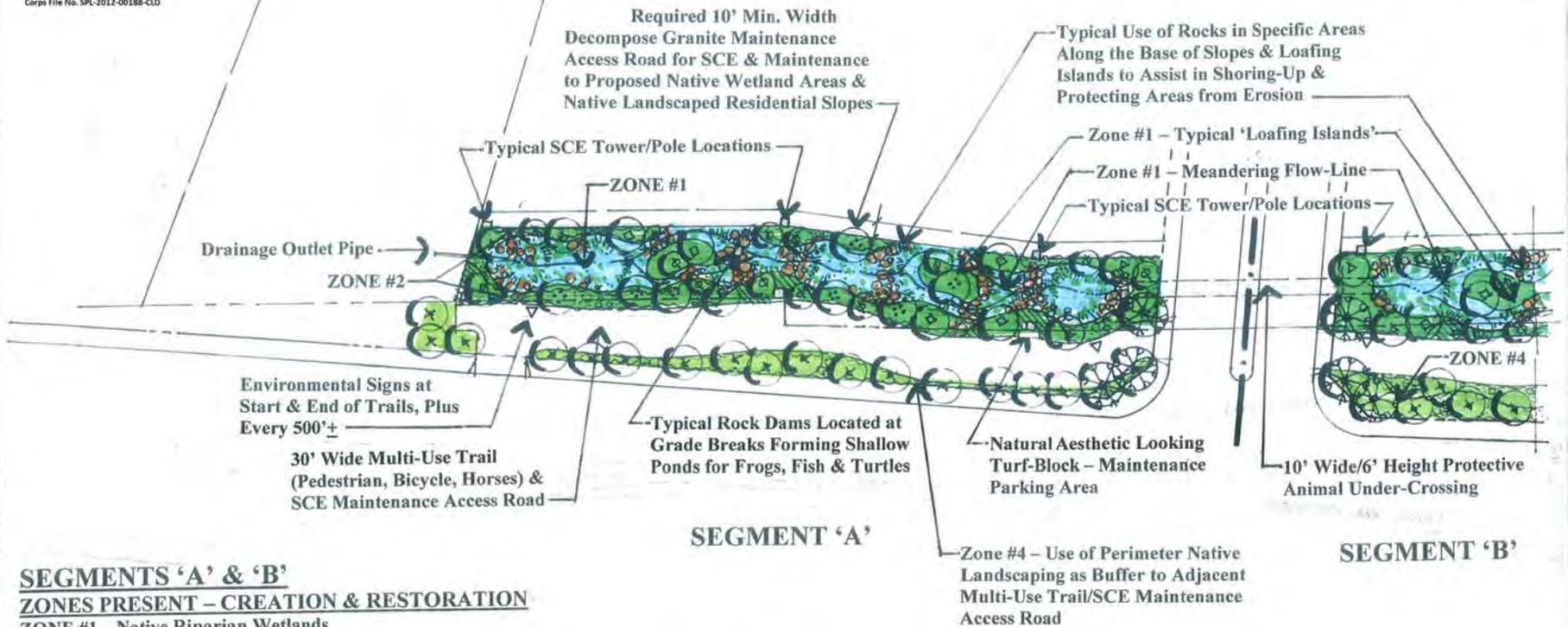
Site Location Map on USGS, Alberhill Quad



Project Site Location Portion of Section 22, Township 5 South, Range 5 West on the Alberhill, CA, 7.5' United States Geological Surveys (USGS) Quadrangle

Figure 3. Lake Street Expansion Project
Construction and Habitat Improvement
(sheets 1 through 10)

Corps File No. SPL-2012-00188-CLD



SEGMENTS 'A' & 'B'

ZONES PRESENT – CREATION & RESTORATION

- ZONE #1 – Native Riparian Wetlands
- ZONE #2 – Native Riparian Woodlands
- ZONE #4 – Native Roadside Perimeter Buffer

Typical Notes:

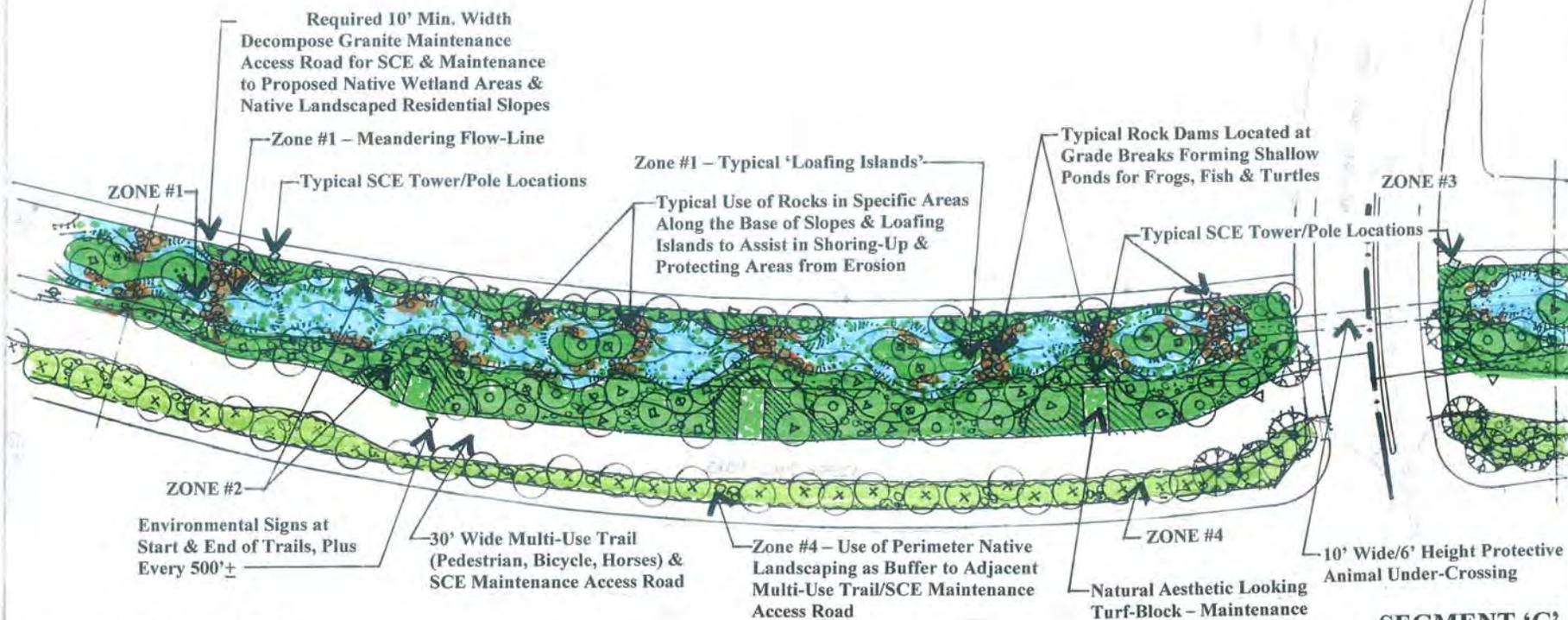
1. Rock Color to Match Soil and Surrounding Areas.
2. Flow-lines will be constructed/covered with a 'Clay Lens' to Permit Water to Flow Continuously Through the Low-Flow Areas and Toward Temescal Creek. (See Separate Detail on Page 12)

CONCEPTUAL (TO BE UPDATED)

Existing Ephemeral Wetlands to Projected Perennial Wetlands in 15 to 20 Years

Segment	Proposed Totals		Proposed Mitigation (AC.)			
	Approx. Length	Approx. Animal Crossing Length	Zone #1	Zone #2	Zone #3	Zone #4
'A'	400'	74'	0.291	0.227	-0-	0.083
'B'	100'	78'	0.087	0.072	-0-	0.074





SEGMENTS 'B' & 'C'

ZONES PRESENT – CREATION & RESTORATION

- ZONE #1 – Native Riparian Wetlands
- ZONE #2 – Native Riparian Woodlands
- ZONE #3 – Native Upland/Slope
- ZONE #4 – Native Roadside Perimeter Buffer

Typical Notes:

1. Rock Color to Match Soil and Surrounding Areas.
2. Flow-lines will be constructed/covered with a 'Clay Lens' to Permit Water to Flow Continuously Through the Low-Flow Areas and Toward Temescal Creek. (See Separate Detail on Page 12)

SEGMENT 'B'

CONCEPTUAL (TO BE UPDATED)

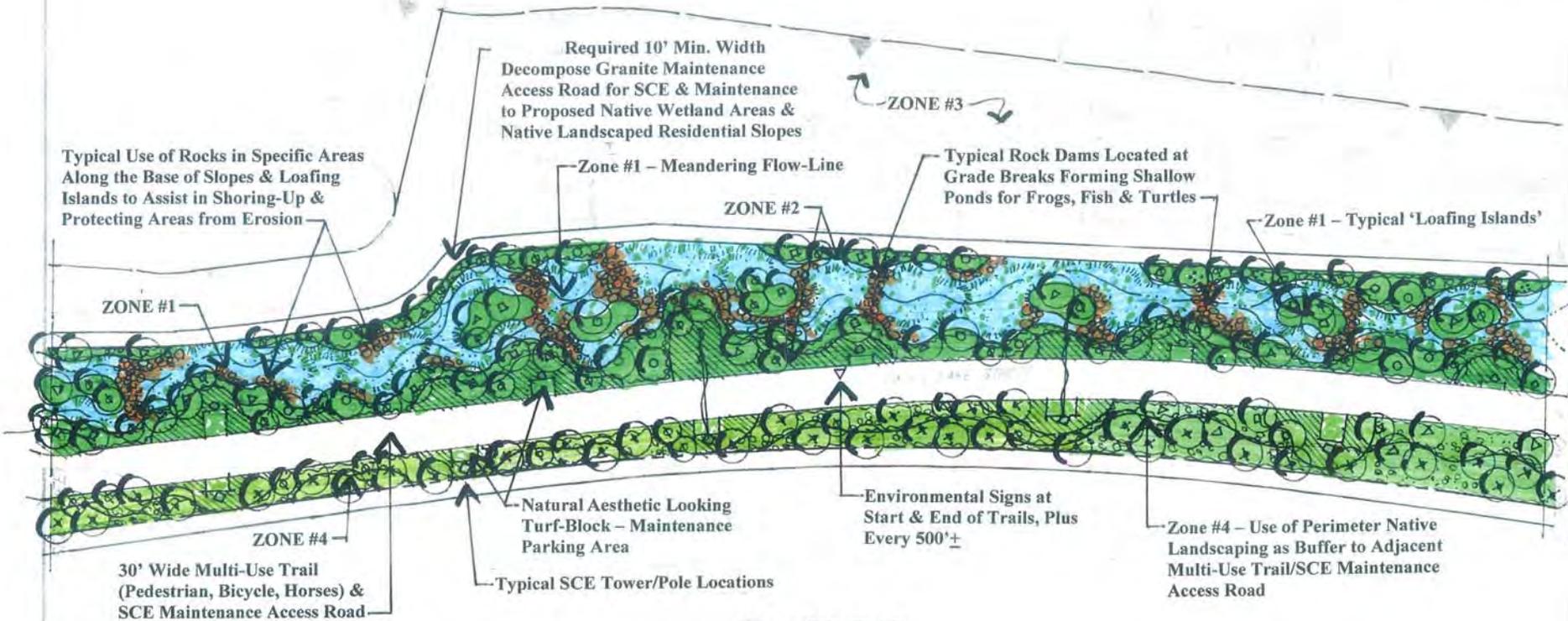
Existing Ephemeral Wetlands to Projected Perennial Wetlands in 15 to 20 Years

Segment	Proposed Totals		Proposed Mitigation (AC.)			
	Approx. Length	Approx. Animal Crossing Length	Zone #1	Zone #2	Zone #3	Zone #4
'B'	684'	74'	0.551	0.673	-0-	0.276
'C'	52'	65'	0.037	0.065	0.126	0.039

SEGMENT 'C'

MARK, INC. ENGINEERING





SEGMENT 'C'

SEGMENT 'C'

ZONES PRESENT – CREATION & RESTORATION

- ZONE #1 – Native Riparian Wetlands
- ZONE #2 – Native Riparian Woodlands
- ZONE #3 – Native Upland/Slope
- ZONE #4 – Native Roadside Perimeter Buffer

Typical Notes:

1. Rock Color to Match Soil and Surrounding Areas.
2. Flow-lines will be constructed/covered with a 'Clay Lens' to Permit Water to Flow Continuously Through the Low-Flow Areas and Toward Temescal Creek. (See Separate Detail on Page 12)

CONCEPTUAL (TO BE UPDATED)

Existing Ephemeral Wetlands to Projected Perennial Wetlands in 15 to 20 Years

Segment	Proposed Totals		Proposed Mitigation (A.C.)			
	Approx. Length	Approx. Animal Crossing Length	Zone #1	Zone #2	Zone #3	Zone #4
'C'	946'	-0-	0.937	0.666	2.220	0.635



SEGMENTS 'C' & 'D'

ZONES PRESENT - CREATION & RESTORATION

- ZONE #1 - Native Riparian Wetlands
- ZONE #2 - Native Riparian Woodlands
- ZONE #3 - Native Upland/Slope
- ZONE #4 - Native Roadside Perimeter Buffer



Typical Notes:

1. Rock Color to Match Soil and Surrounding Areas.
2. Flow-lines will be constructed/covered with a 'Clay Lens' to Permit Water to Flow Continuously Through the Low-Flow Areas and Toward Temescal Creek. (See Separate Detail on Page 12)

CONCEPTUAL (TO BE UPDATED)
Existing Ephemeral Wetlands to Projected Perennial Wetlands in 15 to 20 Years

Segment	Proposed Totals		Proposed Mitigation (AC.)			
	Approx. Length	Approx. Animal Crossing Length	Zone #1	Zone #2	Zone #3	Zone #4
'C'	308'	53'	0.548	0.391	0.062	0.261
'D'	553'	49'	0.686	1.301	1.316	0.127

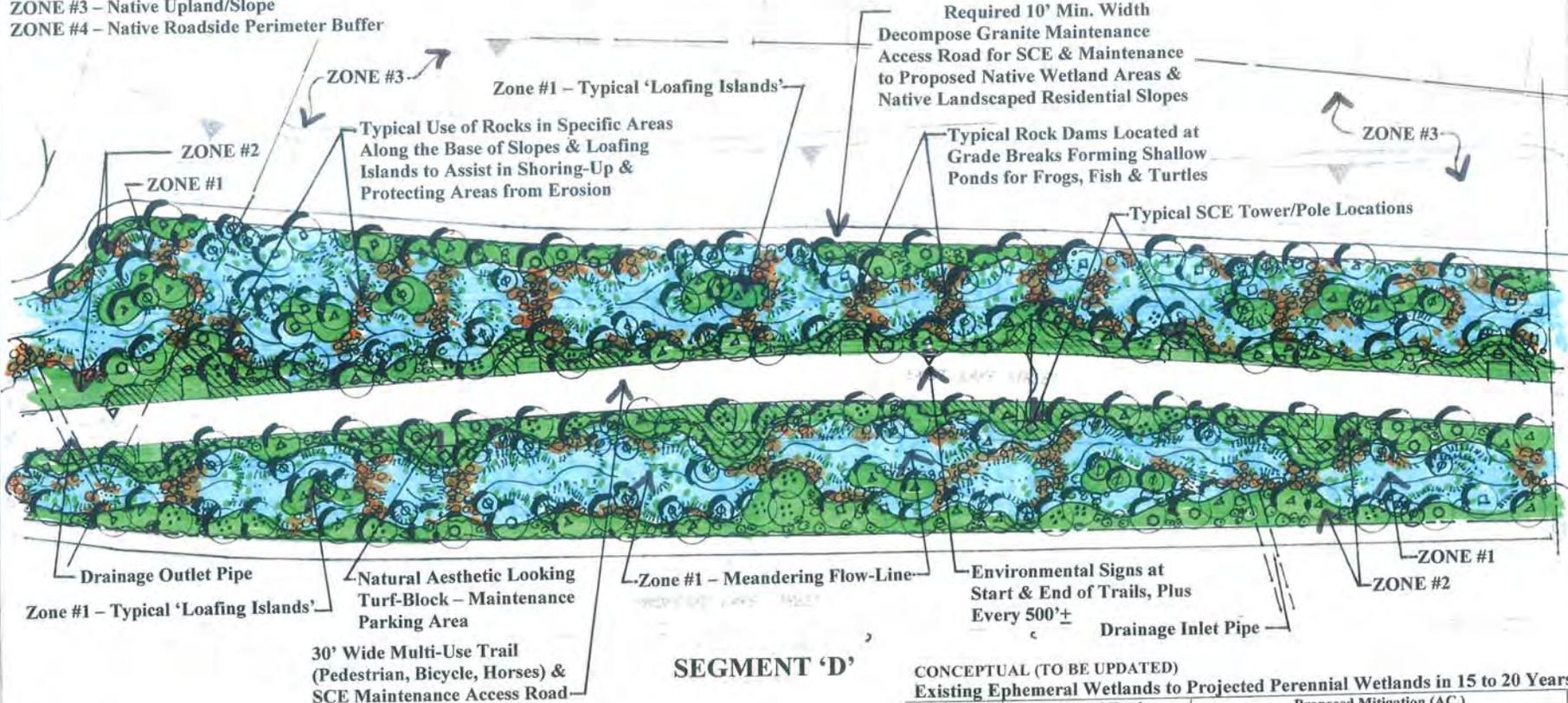
SEGMENT 'D'



SEGMENT 'D'

ZONES PRESENT - CREATION & RESTORATION

- ZONE #1 - Native Riparian Wetlands
- ZONE #2 - Native Riparian Woodlands
- ZONE #3 - Native Upland/Slope
- ZONE #4 - Native Roadside Perimeter Buffer



SEGMENT 'D'

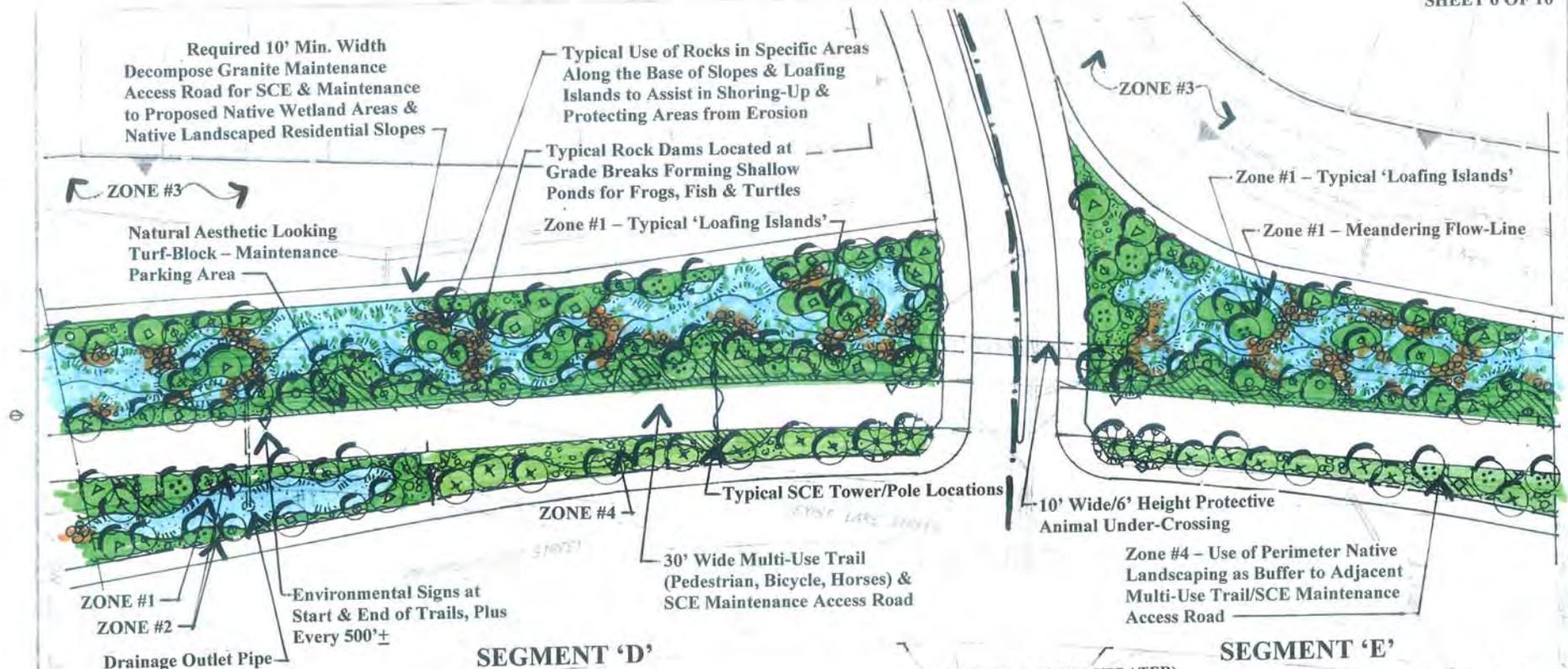
Typical Notes:

1. Rock Color to Match Soil and Surrounding Areas.
2. Flow-lines will be constructed/covered with a 'Clay Lens' to Permit Water to Flow Continuously Through the Low-Flow Areas and Toward Temescal Creek. (See Separate Detail on Page 12)

**CONCEPTUAL (TO BE UPDATED)
Existing Ephemeral Wetlands to Projected Perennial Wetlands in 15 to 20 Years**

Segment	Proposed Totals		Proposed Mitigation (AC.)			
	Approx. Length	Approx. Animal Crossing Length	Zone #1	Zone #2	Zone #3	Zone #4
'D'	835'	-0-	1,970	1,124	2,032	-0-





SEGMENTS 'D' & 'E'
ZONES PRESENT - CREATION & RESTORATION
 ZONE #1 - Native Riparian Wetlands
 ZONE #2 - Native Riparian Woodlands
 ZONE #3 - Native Upland/Slope
 ZONE #4 - Native Roadside Perimeter Buffer

- Typical Notes:**
1. Rock Color to Match Soil and Surrounding Areas.
 2. Flow-lines will be constructed/covered with a 'Clay Lens' to Permit Water to Flow Continuously Through the Low-Flow Areas and Toward Temescal Creek. (See Separate Detail on Page 12)

CONCEPTUAL (TO BE UPDATED)
 Existing Ephemeral Wetlands to Projected Perennial Wetlands in 15 to 20 Years

Segment	Proposed Totals		Proposed Mitigation (AC.)			
	Approx. Length	Approx. Animal Crossing Length	Zone #1	Zone #2	Zone #3	Zone #4
'D'	535'	66'	0.754	0.444	1.027	0.159
'E'	268'	69'	0.302	0.249	0.817	0.110



SEGMENTS 'E' & 'F'

ZONES PRESENT - CREATION & RESTORATION

- ZONE #1 - Native Riparian Wetlands
- ZONE #2 - Native Riparian Woodlands
- ZONE #3 - Native Upland/Slope
- ZONE #4 - Native Roadside Perimeter Buffer



SEGMENT 'E'

Zone #4 - Use of Perimeter Native Landscaping as Buffer to Adjacent Multi-Use Trail/SCE Maintenance Access Road

Typical Notes:

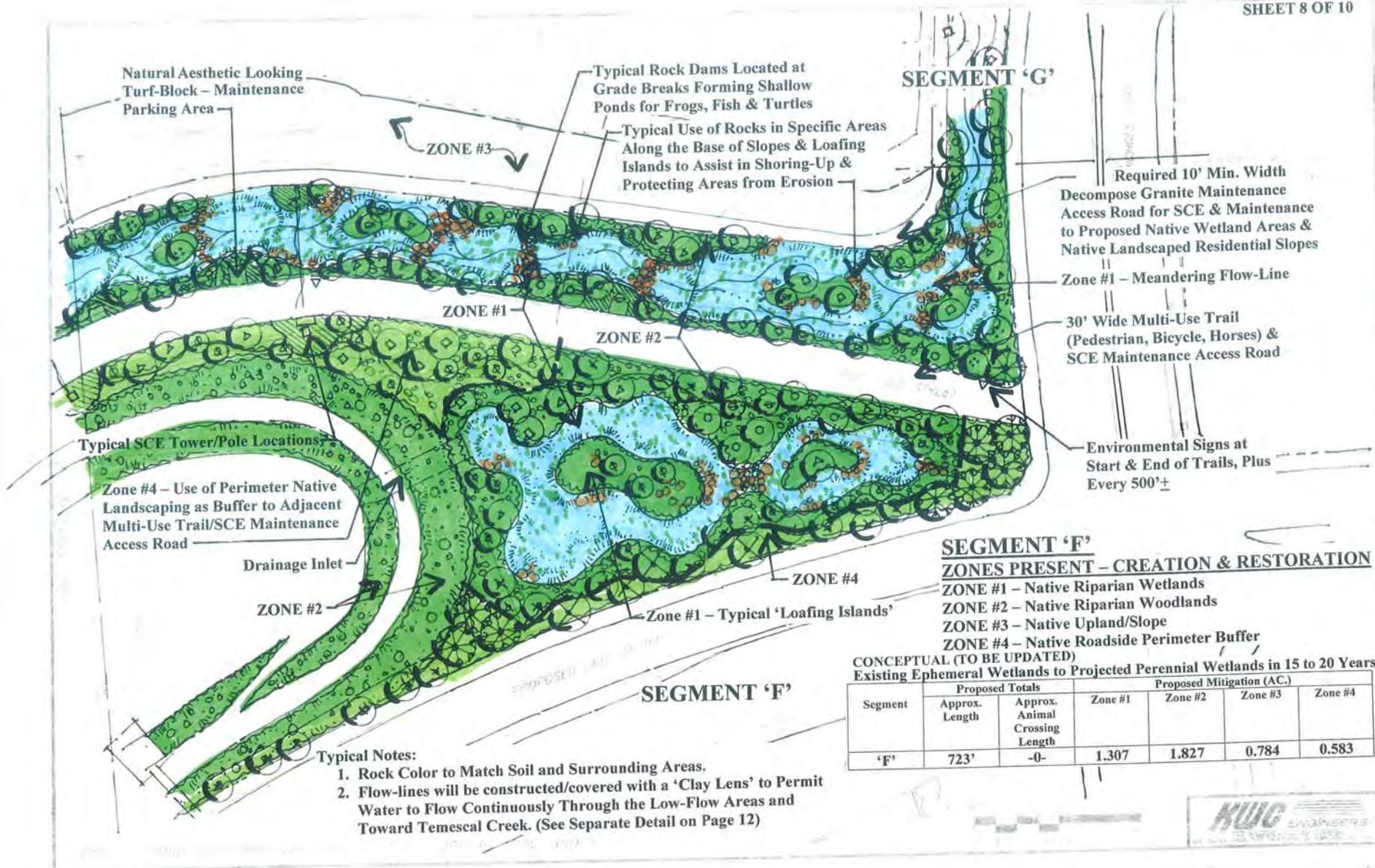
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SEGMENT 'F'

**CONCEPTUAL (TO BE UPDATED)
Existing Ephemeral Wetlands to Projected Perennial Wetlands in 15 to 20 Years**

Segment	Proposed Totals		Proposed Mitigation (AC.)			
	Approx. Length	Approx. Animal Crossing Length	Zone #1	Zone #2	Zone #3	Zone #4
'E'	236'	80'	0.294	0.392	1.471	0.026
'F'	513'	71'	0.872	0.845	0.435	0.472





SEGMENT 'F'
ZONES PRESENT - CREATION & RESTORATION

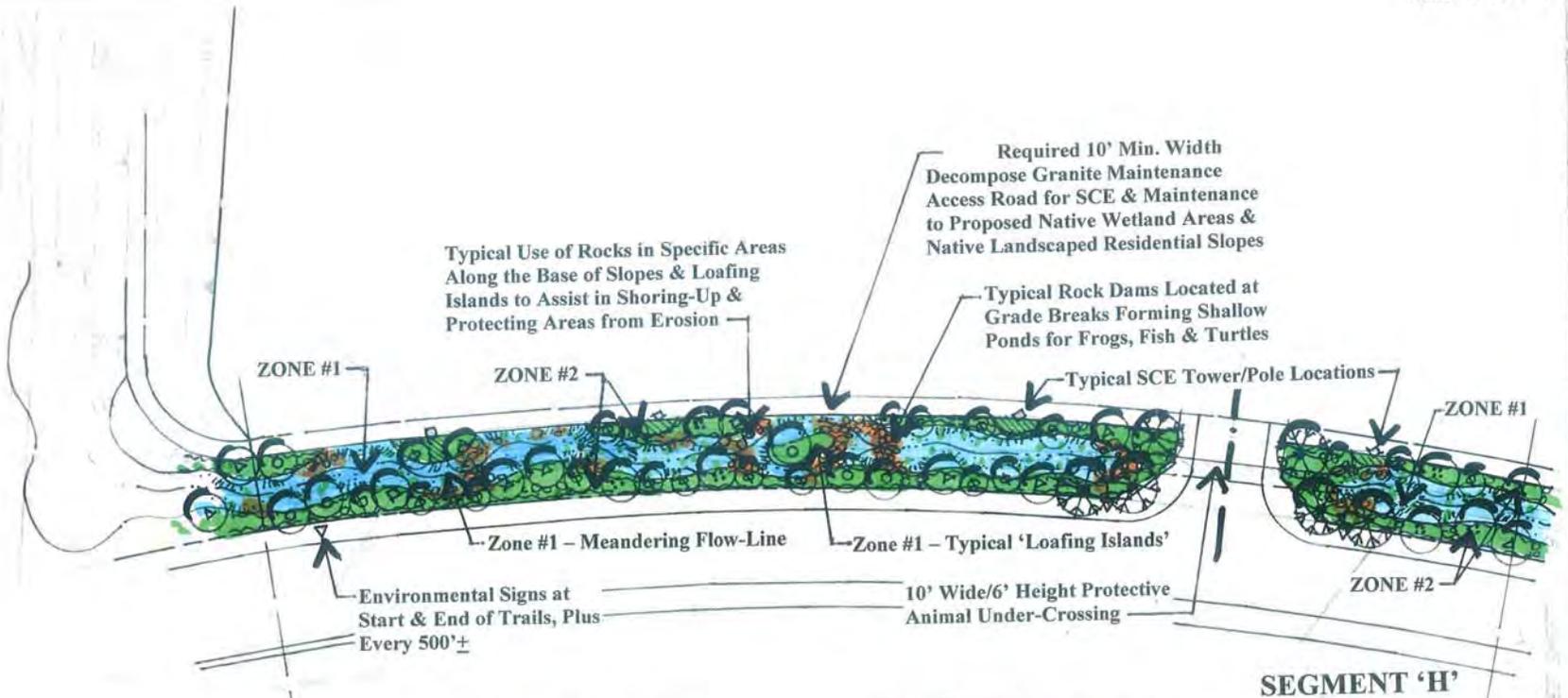
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CONCEPTUAL (TO BE UPDATED)
 Existing Ephemeral Wetlands to Projected Perennial Wetlands in 15 to 20 Years

Segment	Proposed Totals		Proposed Mitigation (AC.)			
	Approx. Length	Approx. Animal Crossing Length	Zone #1	Zone #2	Zone #3	Zone #4
'F'	723'	-0-	1.307	1.827	0.784	0.583

- Typical Notes:
1. Rock Color to Match Soil and Surrounding Areas.
 2. Flow-lines will be constructed/covered with a 'Clay Lens' to Permit Water to Flow Continuously Through the Low-Flow Areas and Toward Temescal Creek. (See Separate Detail on Page 12)





SEGMENT 'G'

SEGMENT 'H'

SEGMENTS 'G' & 'H'
ZONES PRESENT - CREATION & RESTORATION

- ZONE #1 - Native Riparian Wetlands
- ZONE #2 - Native Riparian Woodlands

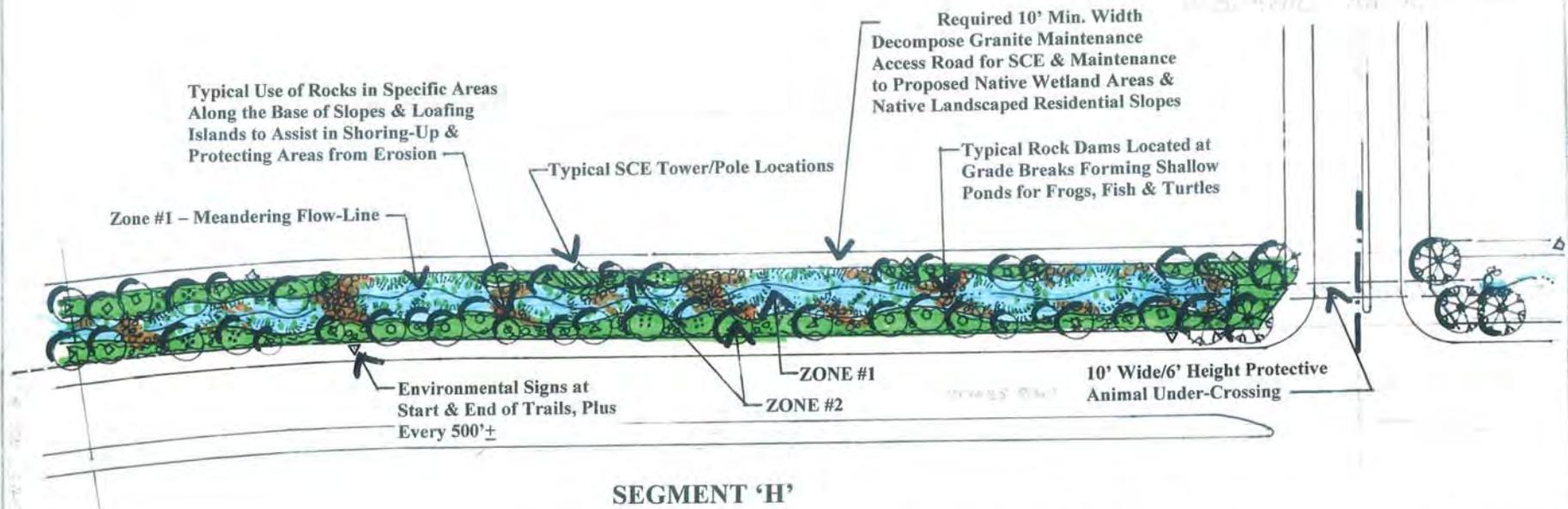
Typical Notes:

1. Rock Color to Match Soil and Surrounding Areas.
2. Flow-lines will be constructed/covered with a 'Clay Lens' to Permit Water to Flow Continuously Through the Low-Flow Areas and Toward Temescal Creek. (See Separate Detail on Page 12)

CONCEPTUAL (TO BE UPDATED)
 Existing Ephemeral Wetlands to Projected Perennial Wetlands in 15 to 20 Years

Segment	Proposed Totals		Proposed Mitigation (AC.)			
	Approx. Length	Approx. Animal Crossing Length	Zone #1	Zone #2	Zone #3	Zone #4
'G'	486'	56'	0.286	0.244	-0-	-0-
'H'	110'	57'	0.061	0.068	-0-	-0-





SEGMENT 'H'

SEGMENT 'H'
ZONES PRESENT - CREATION & RESTORATION
 ZONE #1 - Native Riparian Wetlands
 ZONE #2 - Native Riparian Woodlands

- Typical Notes:
1. Rock Color to Match Soil and Surrounding Areas.
 2. Flow-lines will be constructed/covered with a 'Clay Lens' to Permit Water to Flow Continuously Through the Low-Flow Areas and Toward Temescal Creek. (See Separate Detail on Page 12)

CONCEPTUAL (TO BE UPDATED)
 Existing Ephemeral Wetlands to Projected Perennial Wetlands in 15 to 20 Years

Segment	Proposed Totals		Proposed Mitigation (AC.)			
	Approx. Length	Approx. Animal Crossing Length	Zone #1	Zone #2	Zone #3	Zone #4
'H'	713'	78'	0.386	0.225	-0-	-0-

