

# **INFORMATION HANDOUT**

**For Contract No. 12-0716U4**

**At 12-Ora-22,405,605-R0.3/R2.9, 20.4/24.0, 3.0/R1.6**

**Identified by**

**Project ID 1212000098**

## **MATERIALS INFORMATION**

Aerially Deposited Lead Assessment Report

# **AERIALY DEPOSITED LEAD ASSESSMENT REPORT**

West County Connectors Project

Orange County, California

State Route 22/Interstate 405/Interstate 605 Highway Planting Project

District 12 – ORA – 22 – PM 0.0/R1.2

District 12 – ORA – 405 – PM 20.5/24.0

District 12 – ORA – 605 – PM 3.0/R0.4

Project ID: 1212000098

EA 0716U1

Submitted to:

CALIFORNIA DEPARTMENT OF TRANSPORTATION

District 12

3337 Michelson Drive, Suite 380

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Prepared by:

TRC Solutions, Inc.

9685 Research Drive

Irvine, CA 92618

**November 2015**

## **1. INTRODUCTION**

### **1.1 Project Description**

Orange County Transportation Authority (OCTA) in cooperation with Caltrans proposed to construct Phase II improvements for the West County Connector (WCC) Project. The project consists of improvements to SR-22 Freeway and interchanges at SR-22 / I-405 / I-605 in Orange County, California.

The proposed WCC project was divided into 2 segments to streamline the design and construction efforts, they are:

- The Easterly Segment, “I-405 / SR-22 HOV Connector” (EA 071624), which extends from just east of Bolsa Chica Road – Valley View Street to just east of Seal Beach Boulevard.
- The Westerly Segment, “I-405 / I-605 HOV Connector” (EA 071634), which extends from just east of Seal Beach Boulevard to north of the I-405/I-605 Freeway-to-Freeway interchange.

OCTA then decided to separate the highway planting and irrigation system design from the roadway improvement for both segments and consolidate them into a new highway planting project to follow up the roadway improvement as part of final build out, see Attachment A for project location.

### **1.2 Background**

The Site Investigation Report for the I-405 / SR-22 HOV Connector Segment portion of the WCC Project was completed in January 2009 by Group Delta Consultants, Inc. A separated Aerially Deposited Lead (ADL) Assessment Report for the SR-22 / I-405 / I-605 Interchange was completed in March 2009 by TRC Solutions, Inc. Based on those reports, the design consultants for both segments developed the Construction Detail sheets for aerially deposited lead removal and backfill details. The design plans from both segments indicated that the Type Y-1, Type Y-2, and Type Z-3 materials existed within the entire Phase II improvement area and should be removed and/or disposed.

According to the Special Provisions of both roadway projects, Type Z-3 material is federally regulated hazardous waste material and shall be transported to and disposed of at a Class I Disposal Site.

Type Y-2 material is hazardous waste regulated by the State of California that might be used as backfill material for the proposed roadbed and covered with a layer of pavement per the Variance No. 00-H-VAR-07 of the California Department of Toxic Substances Control (DTSC).

Type Y-1 material is hazardous waste regulated by the State of California that might be used as backfill material for the proposed embankment slopes or roadbed per the Variance No. 00-H-VAR-07 of DTSC. In the Easterly Segment, it required a minimum two-foot cover of nonhazardous soil or pavement. In the Westerly Segment, it required a minimum one-foot cover of nonhazardous soil or pavement. The above mentioned earth cover criteria were described in their Special Provisions respectively.

### **1.3 Scope of Work**

The Scope of this project includes to collect the ADL excavation and burial information from the roadway improvement projects, identify the impacts to the buried ADL by the highway planting project. The highway planting project will not include any topography altering or clearing and grubbing activities.

## **2. PRE-FIELD ACTIVITIES**

In-house analyses were conducted based on the inputs from Easterly and Westerly segments roadway construction projects and proposed planting work to determine if additional field work is needed and the extents.

According to these analyses, Type Y-1 material buried under the new embankment slopes may be exposed by the planting holes deeper than 2' while proceeding the planting activities. It is also found in the area between "W" 2315+18 and 2319+48, the existing Type Y-2 material behind the existing soundwall was intact in the roadway projects. Therefore, any Type Y-2 material conflicting with the proposed planting area shall be removed, transported, and disposed of at a Class I Disposal Site.

Since this highway planting project will be limited to the project area previously defined by the roadway projects and no additional ADL beyond the original ADL Assessment Report was identified through the roadway construction period, this project will not trigger additional field work.

On August 12, 2015, Mr. Paul Chang from Environmental Engineering concluded that the proposed tree planting areas are either away from the previously located Type Y-1 ADL contaminated area or the Type Y-1 ADL contaminated soil was replaced with nonhazardous soil. Furthermore, Mr. Chang confirmed that the Type Y-1 contaminated soil were buried much deeper than the proposed planting works and concurred that this project will not have ADL impact. Therefore, the ADL sampling shall be considered completed in previous roadway projects.

Summarized below are the impacts to the hazardous materials listed in the original ADL assessment reports.

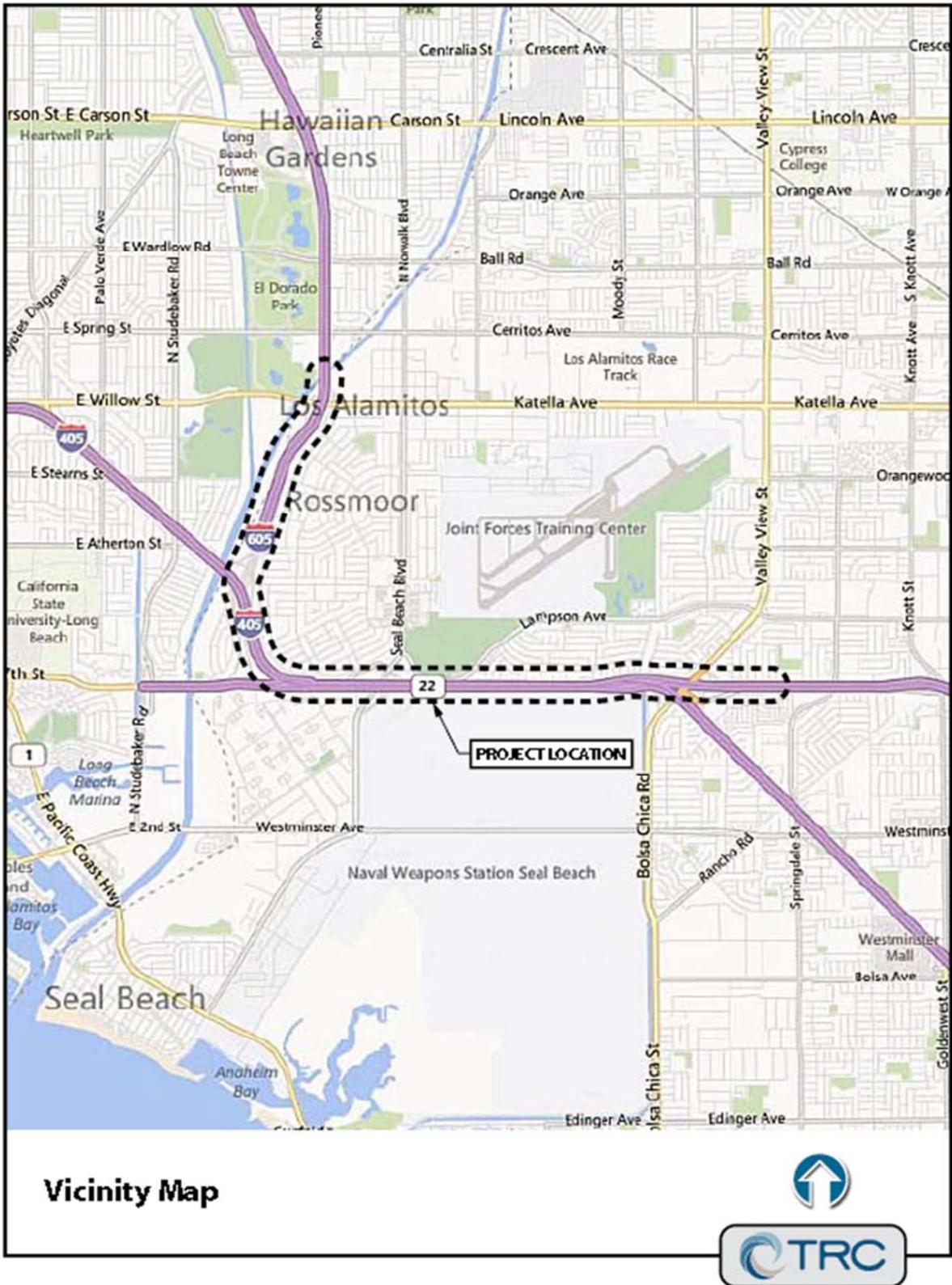
<b>Type of Hazardous Materials and Treatment in Roadway and Highway Planting Projects</b>		
Type	Roadway Projects	Highway Planting Project
Y-1	Excavated and backfilled under roadway pavement or embankment slopes. The excavated Type Y-1 material shall be placed minimum 5' above the maximum water table elevation and covered with appropriate pavement or nonhazardous soil according to the project Special Provisions.	The project has no impact to the Type Y-1 material buried under new pavement. If Type Y-1 material were exposed through the planting activities, it shall be removed and disposed according to Caltrans 2010 Standard Specifications.
Y-2	Excavated and backfilled under roadway pavement except the Type Y-2 material from "W" 2315+18 to 2319+48 behind the existing soundwall was remained in place.	<ul style="list-style-type: none"> <li>• The highway planting project has no impacts to the buried Type Y-2 material.</li> <li>• The Type Y-2 material from "W" 2315+18 to 2319+48 behind the existing soundwall and conflicting with the proposed planting area shall be removed.</li> </ul>
Z-3	Excavated, transported and disposed of at class I disposal site	Not applicable

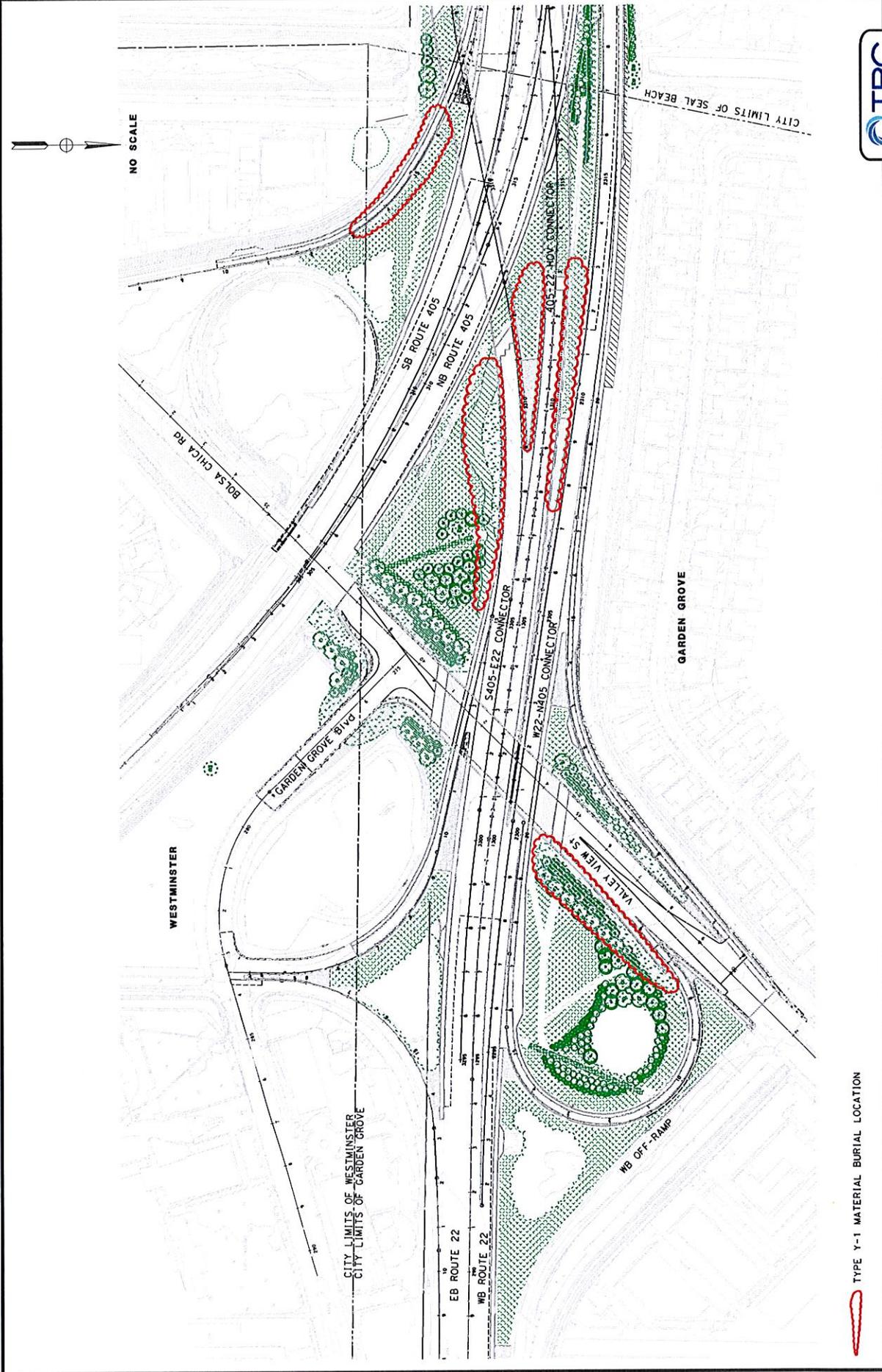
### 3. RECOMMENDATIONS

According to the ADL burial locations and the proposed planting plan shown on Attachment B, it is unlikely that the project will encroach and expose the buried ADL contaminated material. However, if the unexpected ADL contaminated material were exposed during construction, contractor shall handle the material in accordance with the Caltrans 2010 Standard Specifications, and the remove and dispose of the ADL contaminated material shall be considered as extra work.

### ATTACHMENTS

- A. Vicinity Map
- B. Type Y-1 Material Burial Map and Proposed Planting
- C. Type Y-2 Material Removal Plan

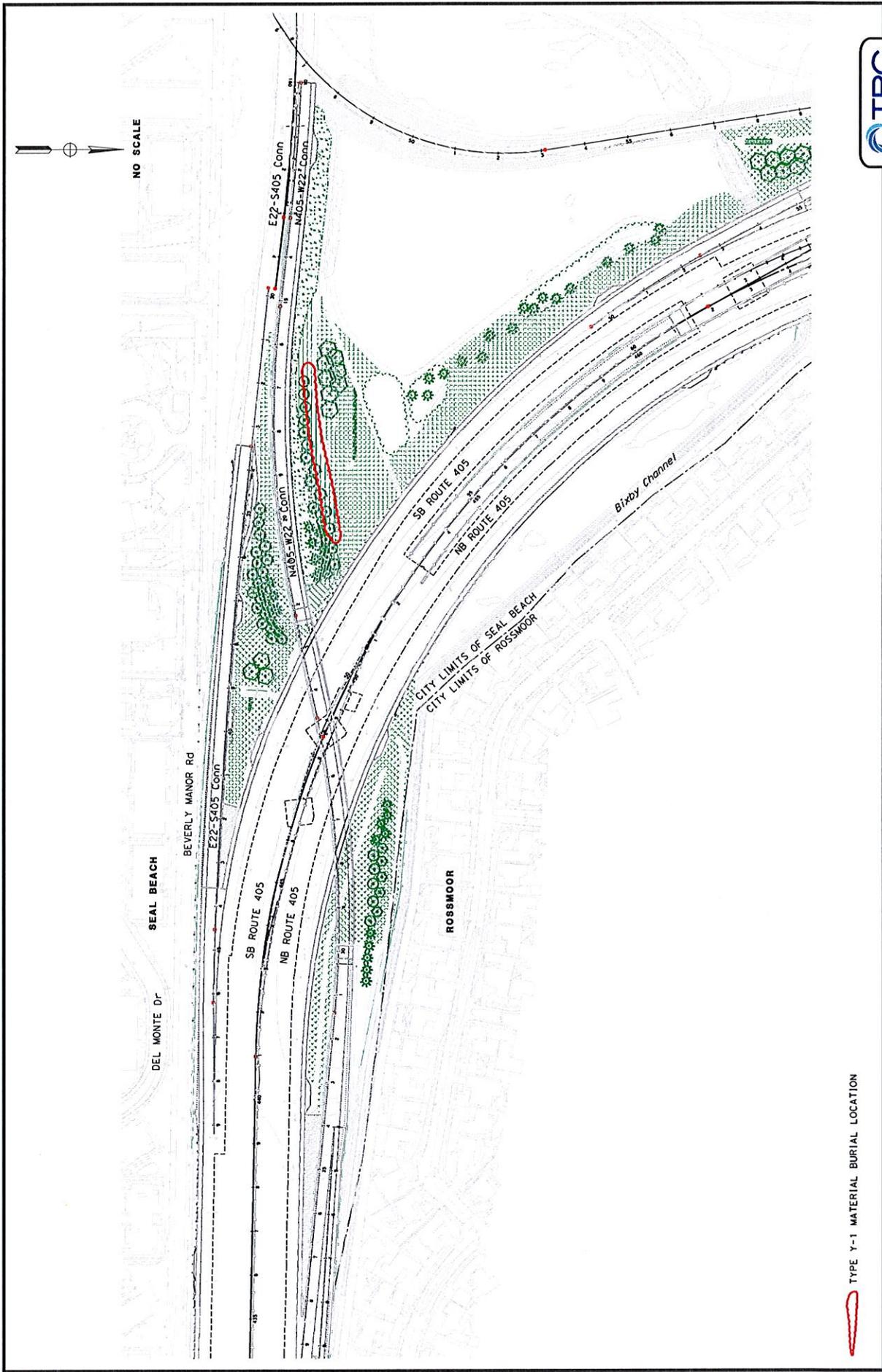




TYPE Y-1 MATERIAL BURIAL LOCATION



ATTACHMENT B - TYPE Y-1 MATERIAL BURIAL MAP AND PROPOSED PLANTING



TYPE Y-1 MATERIAL BURIAL LOCATION

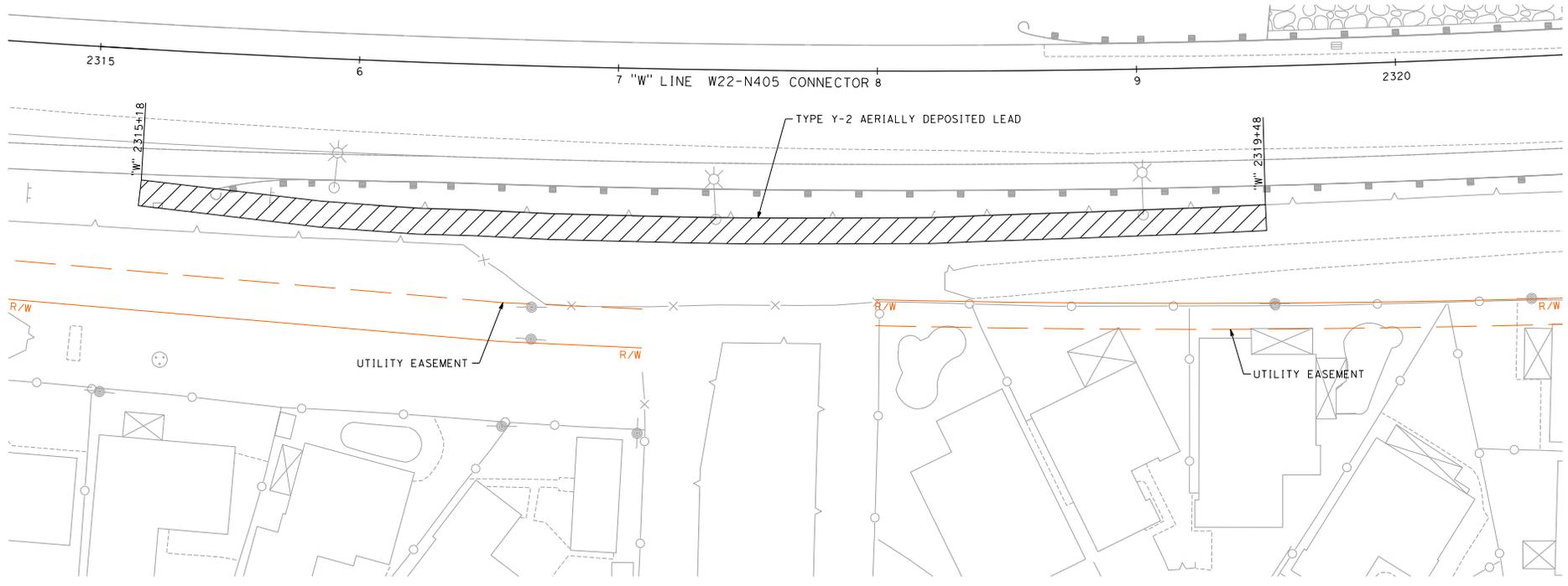


**ATTACHMENT B - TYPE Y-1 MATERIAL BURIAL MAP AND PROPOSED PLANTING**



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 CONSULTANT FUNCTIONAL SUPERVISOR  
 RAJA MITWASI  
 KEVIN YANG  
 EHSAN TAVASSOLI  
 DESIGNED BY  
 CHECKED BY  
 REVISOR  
 DATE REVISOR

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	22,405, 605	RD. 3/RD. 9 20.4/24.0, 3.0/R1.6		
E. Tavassoli			08-28-15		
REGISTERED CIVIL ENGINEER			DATE		
PLANS APPROVAL DATE					
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.			REGISTERED PROFESSIONAL ENGINEER EHSAN TAVASSOLI No. C68678 Exp. 09-30-17 CIVIL STATE OF CALIFORNIA		
TRC 9685 RESEARCH DRIVE IRVINE, CA 92618			ORANGE COUNTY TRANSPORTATION AUTHORITY 550 S. MAIN STREET ORANGE, CA 92863-1584		



**LEGEND**

TYPE Y-2 AERIALLY DEPOSITED LEAD

- NOTES:**
1. THE ADL LIMITS ARE DETERMINED PER THE ADL ASSESSMENT REPORT. CONTRACTOR SHALL VERIFY THE ADL LIMIT AS DIRECTED BY THE ENGINEER.
  2. CONTRACTOR SHALL REMOVE CONTAMINATED SOIL CONFLICTING TO THE PROPOSED PLANTING AND IRRIGATION LINES WITHIN THE ADL LIMITS. EXACT LOCATIONS SHALL BE DIRECTED BY THE ENGINEER.
  3. THE MINIMUM ADL REMOVAL DEPTH = 2'.

**TYPE Y-2 MATERIAL  
 REMOVAL PLAN**  
 NO SCALE  
**EXHIBIT C**