

2013 CONTRACTOR MEETING



Landscape Architecture Program

Caltrans Contractor Meeting



Welcome

AGENDA REVIEW

Agenda Review and Ground Rules

Ground Rules

- Start and finish on time
- Full participation encouraged
- Different opinions welcome
- One person speaks at a time
- Limit jargon
- More...

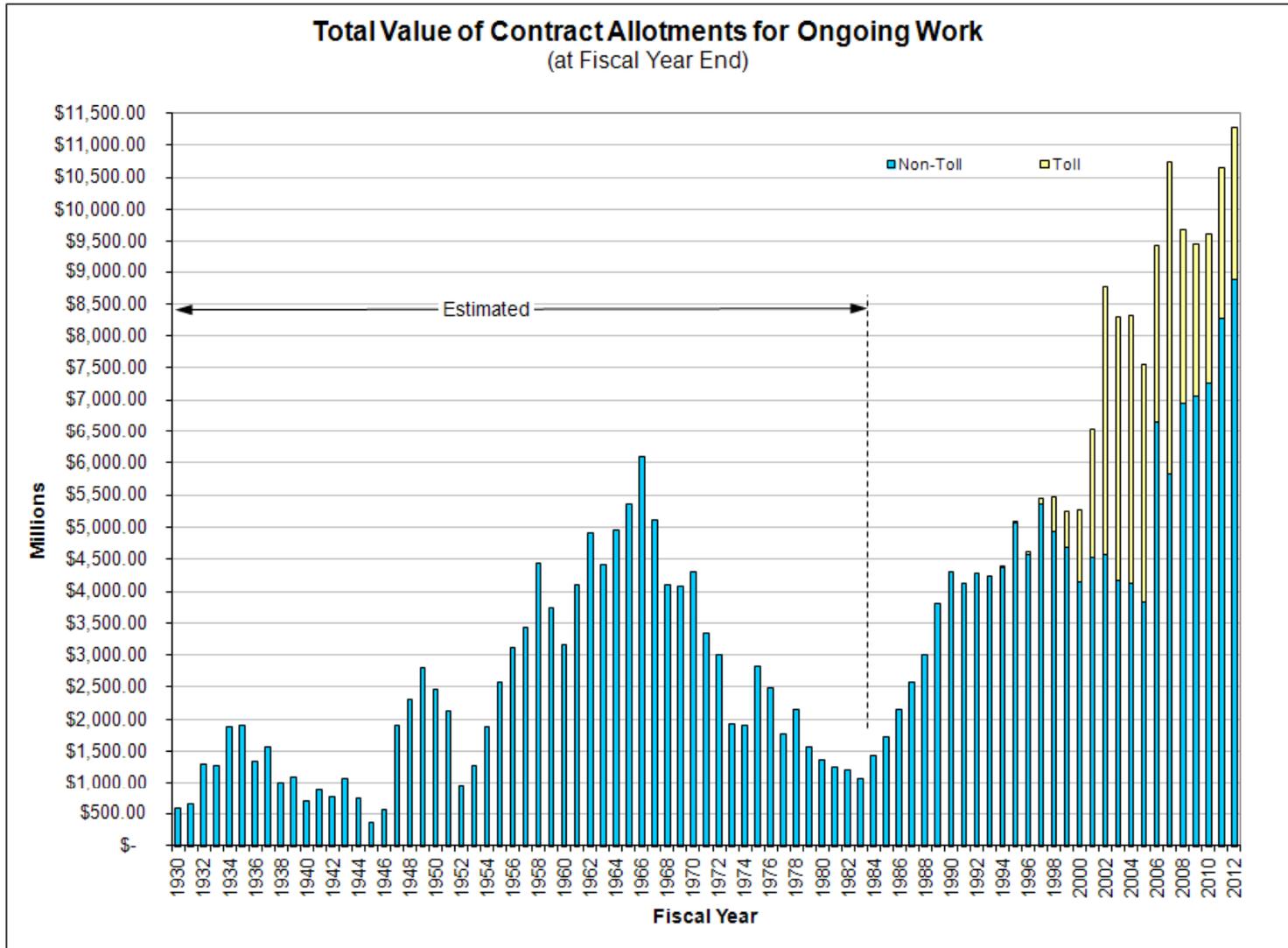
Ground Rules

- Limit side conversations
- Keep discussion on topic
- Silence is agreement
- Set phones to “vibrate”
- Have fun

TRENDS & FORECAST

Keith's Crystal Ball Forecast

Historical Construction Work



Historical Construction Work

(Peak \$ Last Five Fiscal Years)

2007/8	601 Projects	\$11.0B
2008/9	652 Projects	\$9.6B
2009/10	725 Projects	\$9.9B
2010/11	814 Projects	\$11.0B
2011/12	743 Projects	\$11.2B
Today	663 Projects	\$11.6B

Tentative Advertisements



Next 12 Month Period

168 projects, valued at \$1.5 Billion

- 3 (2%) above \$100 million
- 34 (20%) between \$10 and \$100 million
- 95 (57%) between \$1 and \$10 million
- 36 (21%) less than \$1 million

SHOPP Roadside Funding Programs

Highway Planting and Erosion Control

Historical Future

Highway Planting Rehabilitation

65% - 0%

Roadside Safety Improvements

0% - 1%

Roadside Protection and Restoration

2% - 2%

Safety Roadside Rest Area Rehabilitation

2% - 2%

New Safety Roadside Rest Area

0% - 0%

Other

30% - 85%

- Highway, stormwater,
- biological mitigation

Looking Back (SHOPP Funding)

Capital Only

Fiscal Year	Roadside Safety Improvements	Highway Planting Rehabilitation	Storm Water Mitigation
06-07	\$1,040,000	\$17,684,000	\$12,643,000
07-08	\$0	\$11,871,000	\$71,900,000
08-09	\$2,000,000	\$9,132,000	\$42,382,000
09-10	\$1,947,000	\$2,718,000	\$30,408
10-11	\$3,599,000	\$2,600,000	\$1,182,000
11-12	\$2,400,000	\$0	\$76,733,000

Look-Ahead Tool



Website:

http://www.dot.ca.gov/hq/esc/oe/weekly_ads/index.php

Sort by Size, Type, and Location

Look-Ahead Website

Caltrans Projects Look-Ahead - Microsoft Internet Explorer

Address: <http://www.dot.ca.gov/hq/esc/projects/lookahead/>

CA .GOV CALIFORNIA DEPARTMENT OF TRANSPORTATION

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	District ▲ - EA	County - Route - Foot Miles	Location	Detailed Project Scope	Type of Work	Estimate Cost Range (x \$ million)	Working Days Range	Proposed Advertise Date	Other Information	Information Last Updated
<input type="checkbox"/>	1 - 0A0204	HUM - 036 - 035.4/ 045.7	IN HUMBOLDT COUNTY NEAR BRIDGEVILLE FROM SFK VAN DUZEN RIVER BRIDGE TO TRINITY COUNTY LINE			0 - 1		March 2011	View Details	March 30, 2010
<input type="checkbox"/>	1 - 0A0604	LAK - 020 - 031.8/ 037.1	IN LAKE COUNTY NEAR CLEARLAKE OAKS FROM 0.2 MILE EAST OF JUNCTION 20/53 TO CACHE CREEK BRIDGE			1 - 10		March 2011	View Details	April 13, 2010
<input type="checkbox"/>	1 - 0A0804	LAK - 029 - 019.0/ 020.3	IN LAKE COUNTY ON ROUTE 29 NEAR LOWER LAKE FROM 1.3 MILE SOUTH TO 0.1 MILE SOUTH OF JUNCTION 29/53 & ON ROUTE 281 NEAR CLEARLAKE RIVIERA FROM 1.1 MILES WEST OF POINT LAKEVI			1 - 10		January 2012	View Details	April 13, 2010
<input type="checkbox"/>	1 - 0A0904	HUM - 096 - R033.0/R038.6	IN HUMBOLDT COUNTY NEAR ORLEANS FROM 3.1 MILES EAST OF SLATE CREEK BRIDGE TO KLAMATH RIVER BRIDGE			0 - 1		April 2011	View Details	April 13, 2010
<input type="checkbox"/>	1 - 0A1404	MEN - 128 - 000.0/ 011.6	IN MENDOCINO COUNTY ON ROUTE 128 FROM JUNCTION ROUTE 1 TO FLYNN CREEK BRIDGE			1 - 10		April 2011	View Details	April 13, 2010
<input type="checkbox"/>	1 - 262004	MEN - 101 - T043.5/ 051.3	NEAR WILLITS FROM 0.8 KM S HEAHL OH TO 0.8 KM N OF REYNOLDS HIGHWAY (WILLITS BYPASS)	Freeway and Structures	Freeway and Structures	160 - 180	525	September 2010	View Details Has special requirements.	October 14, 2009

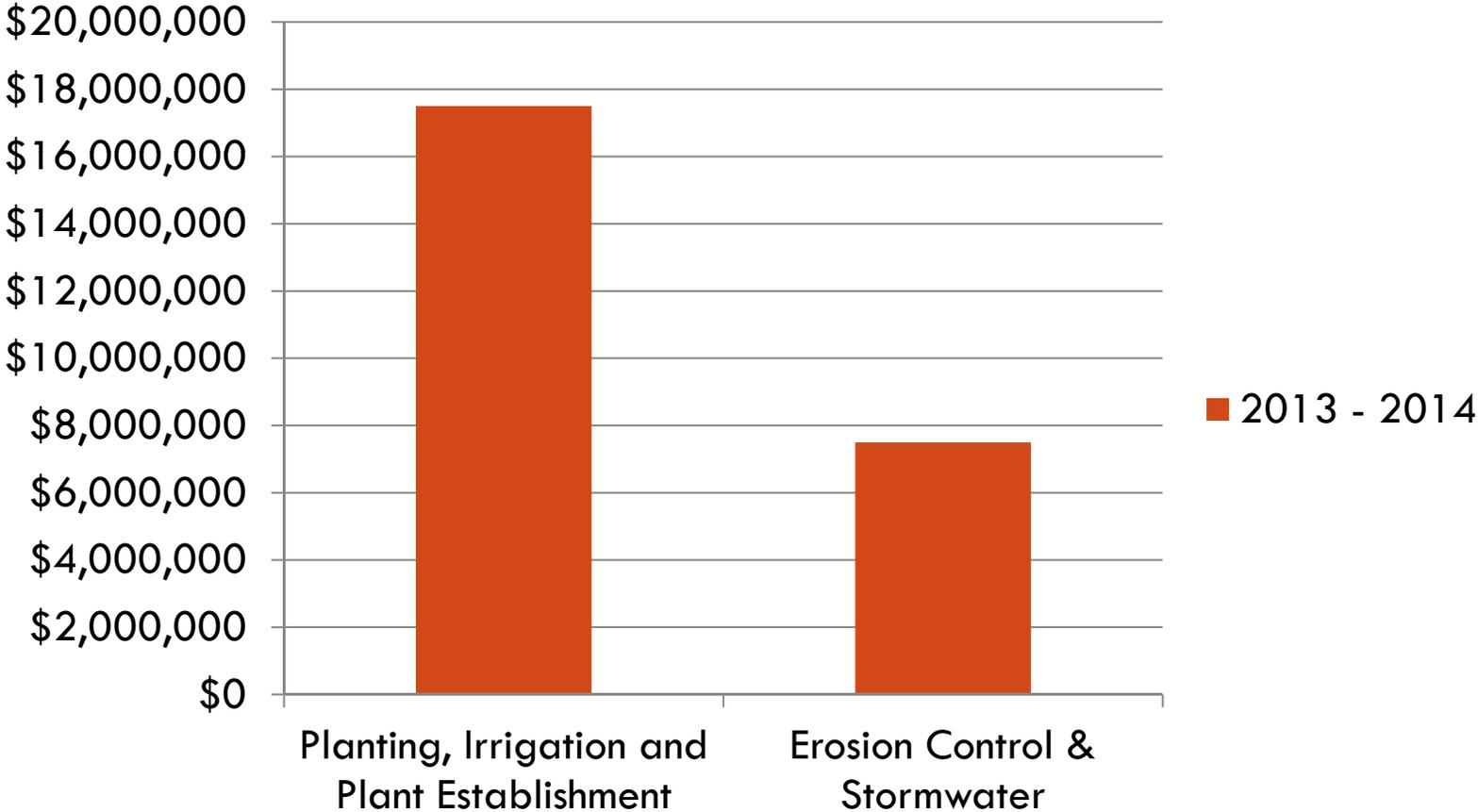
Looking Forward (Proposed Programming)

Capital Only

Fiscal Year	Roadside Safety Improvements	Highway Planting Rehabilitation	Storm Water Mitigation
12-13	\$11,333,000	\$0	\$128,914,000
13-14	\$6,310,000	\$4,581,000	\$99,439,000
14-15	\$35,347,000	\$0	\$64,540,000
15-16	\$22,603,000	\$0	\$87,405,000

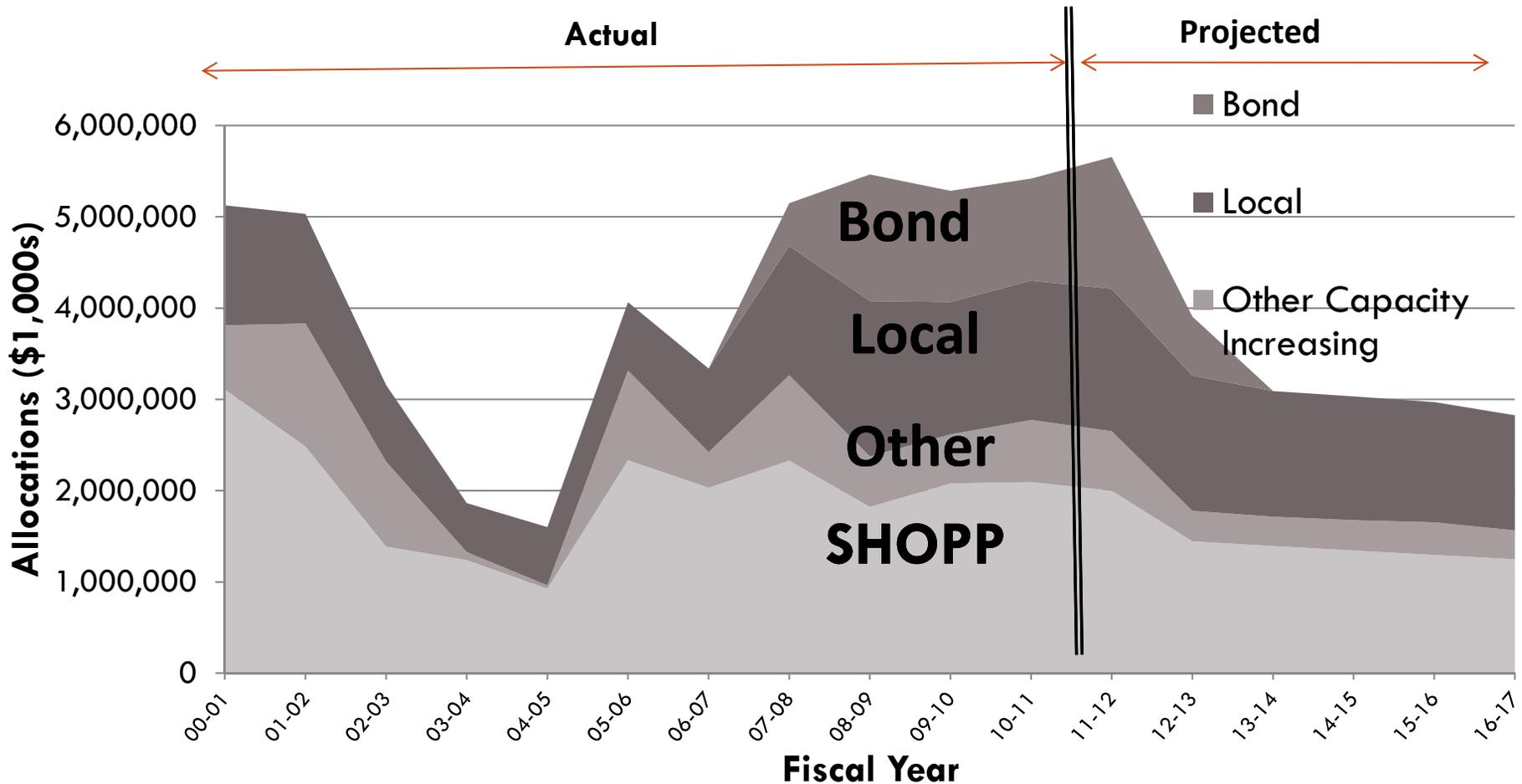
Not Described on Look-Ahead Website

2013 - 2014



Caltrans Revenue Over Time

Declining Highway Funding (Adjusted for Construction Cost Index, in 11/12 dollars)



Note: "Other Capacity Increasing" category includes: STIP and TCRF

ACTION ITEM UPDATE

Review of Last Year's Action Items

Action Item Update

Action Item	Status	Notes
Seed Specification – Germ Rate and Purity	✓	Min germination rate set to minimize weed seed.
Review value of blown straw specification.	✓	Keep SSP in toolbox, train designers on proper use.
Review PSFM specification		PSFM specification deleted.
Review Fiber Roll specification. Consider deleting roll-on-site option.	✓	Type A (Roll on site option) deleted.
Review Plant Establishment specification to improve biddability		Will be incorporated in edits this spring, or later this year.
Drill Seed specification – reduce to “two passes”.	✓	Edit complete and in the pipeline for implementation.
Rock Blanket detail – review for excessive depth of concrete base.		

Rock Blanket

2. Use for rock. Edit as required.

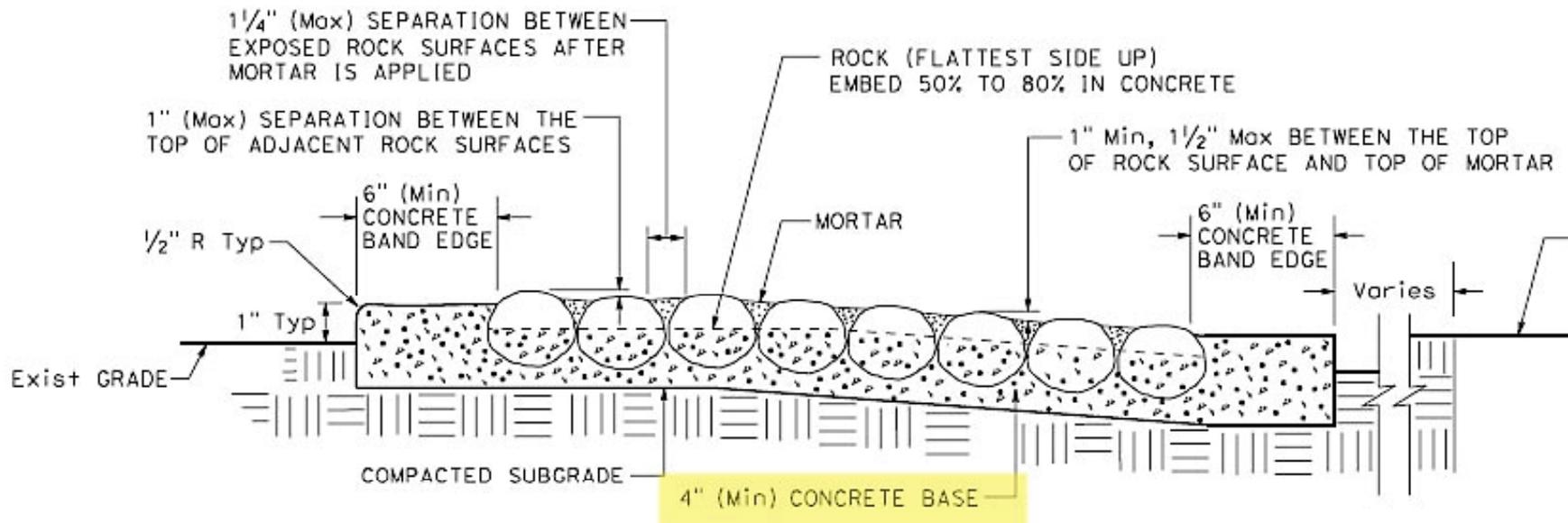
Replace "Reserved" in section 20-12.02D with:

Rock must be clean, smooth, and obtained from a single source and must comply with the following grading requirements:

Grading Requirements

Screen size (inches)	Percentage passing
8	100
6	50-85
4	0-50

Rock Blanket



Action Item Update

Action Item	Status	Notes
Review ESA Fence specification to verify material availability		Material appears to not be available as specified.
Review Gravel Mulch specification. Consider deleting gravel base.	✓	Gravel base option is redundant and will be deleted in May 2013.
Load Tickets for Gravel and Mulch. Additional guidance required?	✓	Reviewed. Additional guidance does not seem to be necessary.
Review developing an updated specification for smart irrigation controllers.	✓	New specification developed and will be included in the May 2013 update.

Communication Action Items

Action Item	Status	Notes
Communicate with Districts on design techniques to reduce theft.	✓	
Communicate with Districts the need to provide better info regarding existing water meters, new water meters, and temporary irrigation water sources.	✓	
Coordinate with Districts the need to avoid double-dimensioning mulch and compost.	✓	
Discuss with Districts the opportunities and constraints of incorporating compost on steep slopes.	✓	

OTHER ISSUES

How do the Revised Standard Specs (RSSs) work?

2010 Standards



- Took effect July 2011
- Few projects exempted
- Most current projects comply
- Revised Standard Specs (RSSs) modify the Standard Specs and SSPs

Revised Standard Specifications



Revised Standard Specifications



Revised Standard Specifications

XE:"RSS_A01-18-13"¶

Page:1 of 91¶

RSS Use in all projects. Do not add. Inserted by boilerplate merge.¶

REVISED STANDARD SPECIFICATIONS DATED¶

01-18-13¶

Revised standard specifications are under headings that correspond with the main section headings of the *Standard Specifications*. A main section heading is a heading shown in the table of contents of the *Standard Specifications*. A date under a main section heading is the date of the latest revision to the section.¶

Each revision to the *Standard Specifications* begins with a revision clause that describes a revision to the *Standard Specifications* or introduces a revision to the *Standard Specifications*. For a revision clause that describes a revision, the date on the right above the clause is the publication date of the revision. For a revision clause that introduces a revision, the date on the right above a revised term, phrase, clause, paragraph, or section is the publication date of the revised term, phrase, clause, paragraph, or section. For a multiple-paragraph or multiple-section revision, the date on the right above a paragraph or section is the publication date of the paragraphs or sections that follow.¶

Any paragraph added or deleted by a revision clause does not change the paragraph numbering of the *Standard Specifications* for any other reference to a paragraph of the *Standard Specifications*.¶

DIVISION I GENERAL PROVISIONS¶

1 GENERAL¶

10-19-12¶

Replace "current" in the 2nd paragraph of section 1-1.05 with:¶

most recent¶

04-20-12¶

Both SSPs & RSSs Modify Std Specs

■ Provide a Weed Free Straw option

■ 21-1.02P Fiber Rolls¶

Fiber roll must have a minimum functional longevity of 1 year and comply with the following requirements: ¶

1. → Type A fiber roll must be fabricated from an erosion control blanket rolled along its width. Secure with natural fiber twine at 6-foot intervals, and 6 inches from each end. Fiber roll size must comply with either one of the following: ¶
 - 1.1. → 8 to 10 inches in diameter, 10 to 20 feet long, and at least 0.5 lb/ft ¶
 - 1.2. → 10 to 12 inches in diameter, at least 10 feet long, and at least 2 lb/ft ¶
2. → Type B fiber roll must be a premanufactured roll filled with rice or wheat straw, wood excelsior, or coconut fiber. Rolls must be covered with biodegradable jute, sisal, or coir fiber netting secured tightly at each end. Fiber roll size must comply with either one of the following: ¶
 - 2.1. → 8 to 10 inches in diameter, 10 to 20 feet long, and at least 1.1 lb/ft ¶
 - 2.2. → 10 to 12 inches in diameter, at least 10 feet long, and at least 3 lb/ft ¶

■ SSP

.....
Add to section 21-1.02P: ¶

Straw must be weed free. Weed-free straw must comply with the Department of Food and Agriculture certification requirements for weed-free straw. ¶

RSSs Modify the Std Specs

■ Change Drill Seed to 3-Pass operation

■ 21-1.03G · Drill · Seed¶

Drill-seeding equipment must be a rangeland drill seeder with a ring roller attached. The seeder must be equipped with a fluffy seed box with agitators to prevent bridging and clogging. The seed box must have metal row dividers and individual box adjustments to meter the seed flow.¶

Apply drill seed as follows:¶

1. → Drill seed in rows no greater than 8 inches apart and to a depth of 1/4 inch.¶
2. → Make a minimum of 3 passes in different directions with seeding equipment to reduce any uniform row appearance.¶
3. → Do not apply seed within 8 feet of the pavement edge.¶

¶ RSS

-
-
-
-
-

¶ XE:"RSS_21-1.03G_D01-29-13" ¶

Page 1 of 1¶

¶
¶

- Replace "3 passes" in item 2 in the list in the 2nd paragraph of section 21-1.03G with:
2 passes¶

More Complex RSS

■ Remove “Type A” Option

21-1.02P Fiber Rolls

Fiber roll must have a minimum functional longevity of 1 year and comply with the following requirements:

1. Type A fiber roll must be fabricated from an erosion control blanket rolled along its width. Secure with natural fiber twine at 6-foot intervals, and 6 inches from each end. Fiber roll size must comply with either one of the following:
 - 1.1. 8 to 10 inches in diameter, 10 to 20 feet long, and at least 0.5 lb/ft
 - 1.2. 10 to 12 inches in diameter, at least 10 feet long, and at least 2 lb/ft
2. Type B fiber roll must be a premanufactured roll filled with rice or wheat straw, wood excelsior, or coconut fiber. Rolls must be covered with biodegradable jute, sisal, or coir fiber netting secured tightly at each end. Fiber roll size must comply with either one of the following:
 - 2.1. 8 to 10 inches in diameter, 10 to 20 feet long, and at least 1.1 lb/ft
 - 2.2. 10 to 12 inches in diameter, at least 10 feet long, and at least 3 lb/ft

- **RSS** Replace the paragraph in section 21-1.02P with:¶

10-19-12¶
Fiber roll must be a premanufactured roll filled with rice or wheat straw, wood excelsior, or coconut fiber. Fiber roll must be covered with biodegradable jute, sisal, or coir fiber netting secured tightly at each end and must be one of the following:¶

1. → 8 to 10 inches in diameter and at least 1.1 lb/ft¶
2. → 10 to 12 inches in diameter and at least 3 lb/ft¶

¶

Fiber roll must have a minimum functional longevity of 1 year.¶¶

More Complex RSS

Standard Specification

21-1.02J Polymer Stabilized Fiber Matrix

Polymer stabilized fiber matrix must be a hydraulically applied material composed of fiber and tackifier and may also include seed and fertilizer as shown.

RSS

"

- Replace section 21-1.02J with:
- 21-1.02J Reserved

04-20-12

More Complex RSS

Standard Specification

SECTION 21

EROSION CONTROL

21-1.02F(2) Polymer Stabilized Fiber Matrix Tackifier

Tackifier for polymer stabilized fiber matrix must be:

1. A liquid formulation with polyacrylamide as the primary active ingredient with the following requirements:
 - 1.1. Linear, anionic copolymer of acrylamide and sodium acrylate.
 - 1.2. Anionic with a residual monomer content that is at most 0.05 percent by weight.
2. Formulated and labeled as one of the following:
 - 2.1. Water-in-oil emulsion containing at least 2.6 pounds of pure polyacrylamide per gallon. Pure polyacrylamide must be at least 30 percent active.
 - 2.2. Liquid dispersed polyacrylamide containing at least 4.4 pounds pure polyacrylamide per gallon. Pure polyacrylamide must be at least 35 percent active.

RSS

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• 21-1.02F(2) Reserved

¶

Replace section 21-1.02F(2) with:

04-20-12

BREAK

CONTRACTOR PRESENTATION

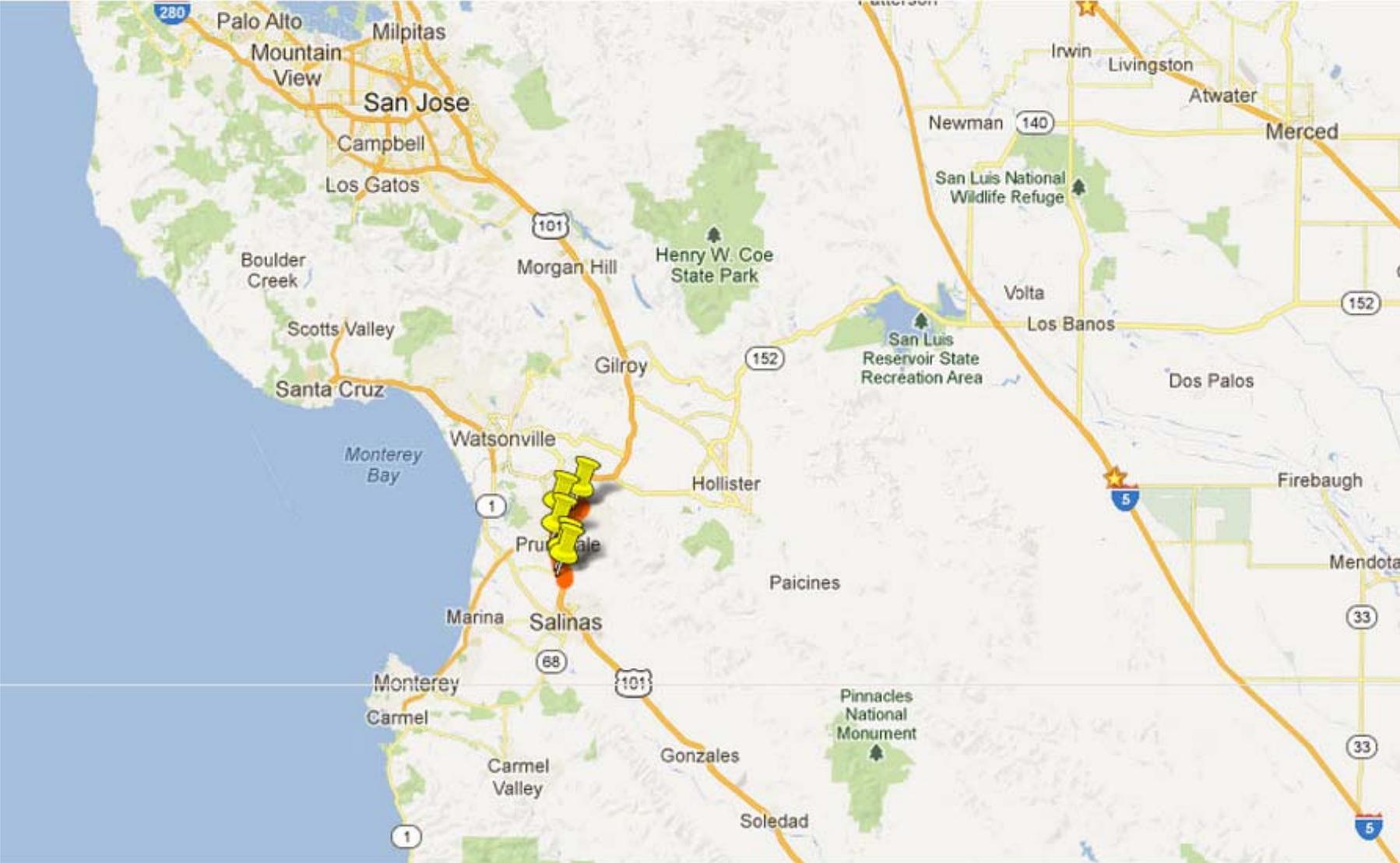
KCI Environmental (Northern California)

Marina Landscape (Southern California)

City of Prunedale
City Council Meeting

Prunedale Improvement Project

Overview



Overview



1 Espinosa Road Improvements



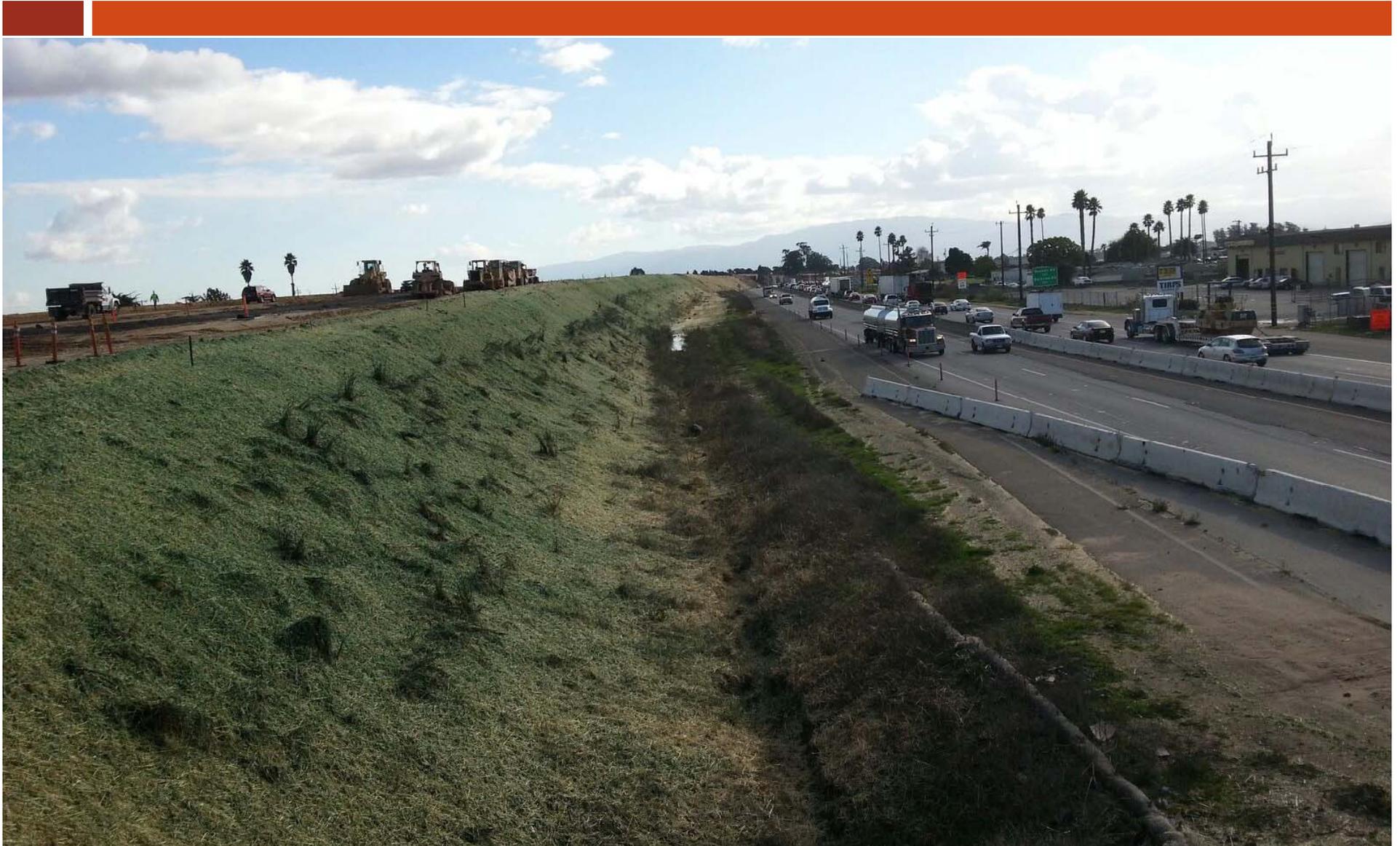
#1 Espinosa Road Interchange



Temp Tacked Straw (Location 1)



Temp Tacked Straw (Location 1)



Temp Blown Straw (Location 1)



Incorporate Compost (Location 1)



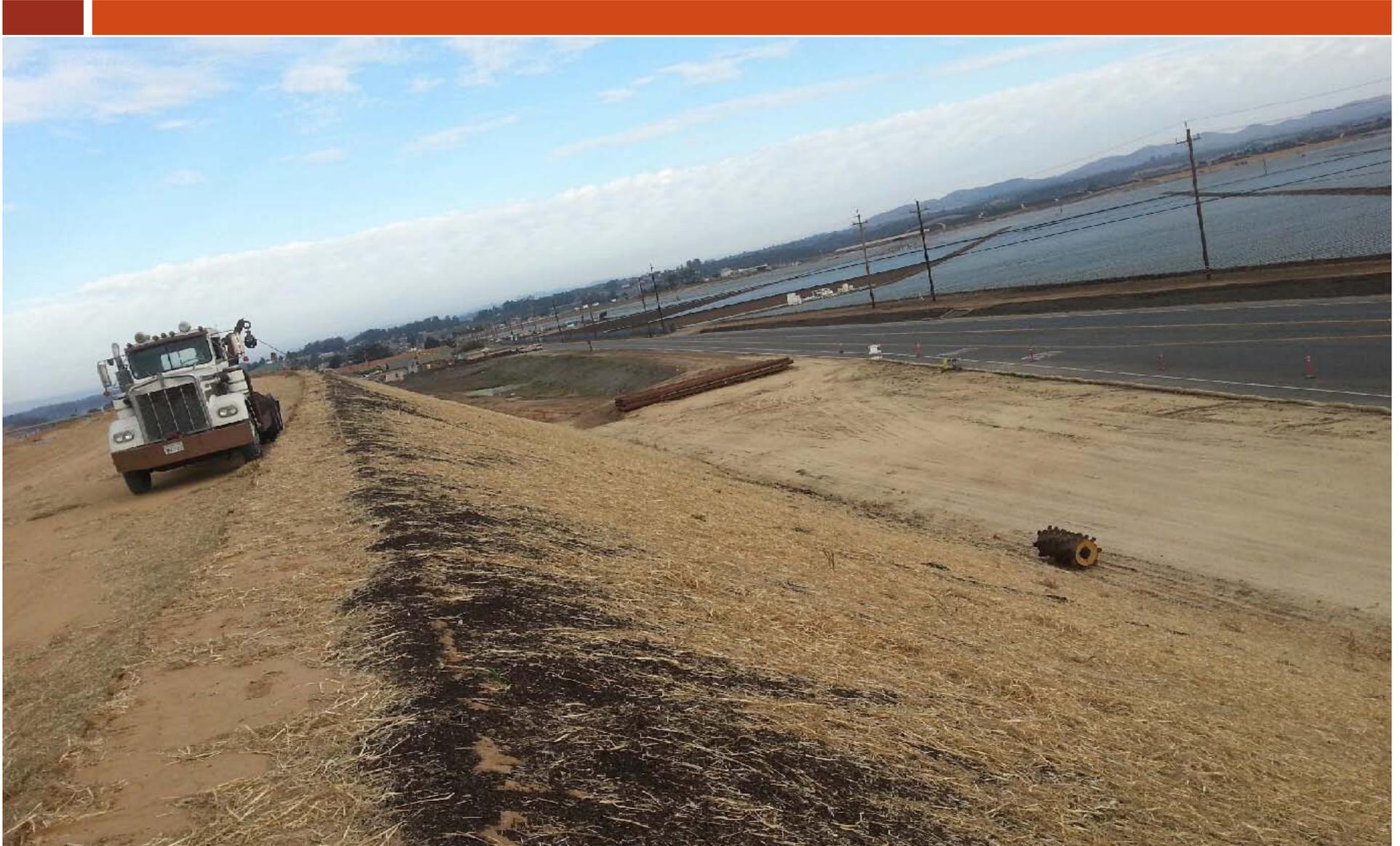
Drill Seed (Location 1)



Straw and Tack (Location 1)



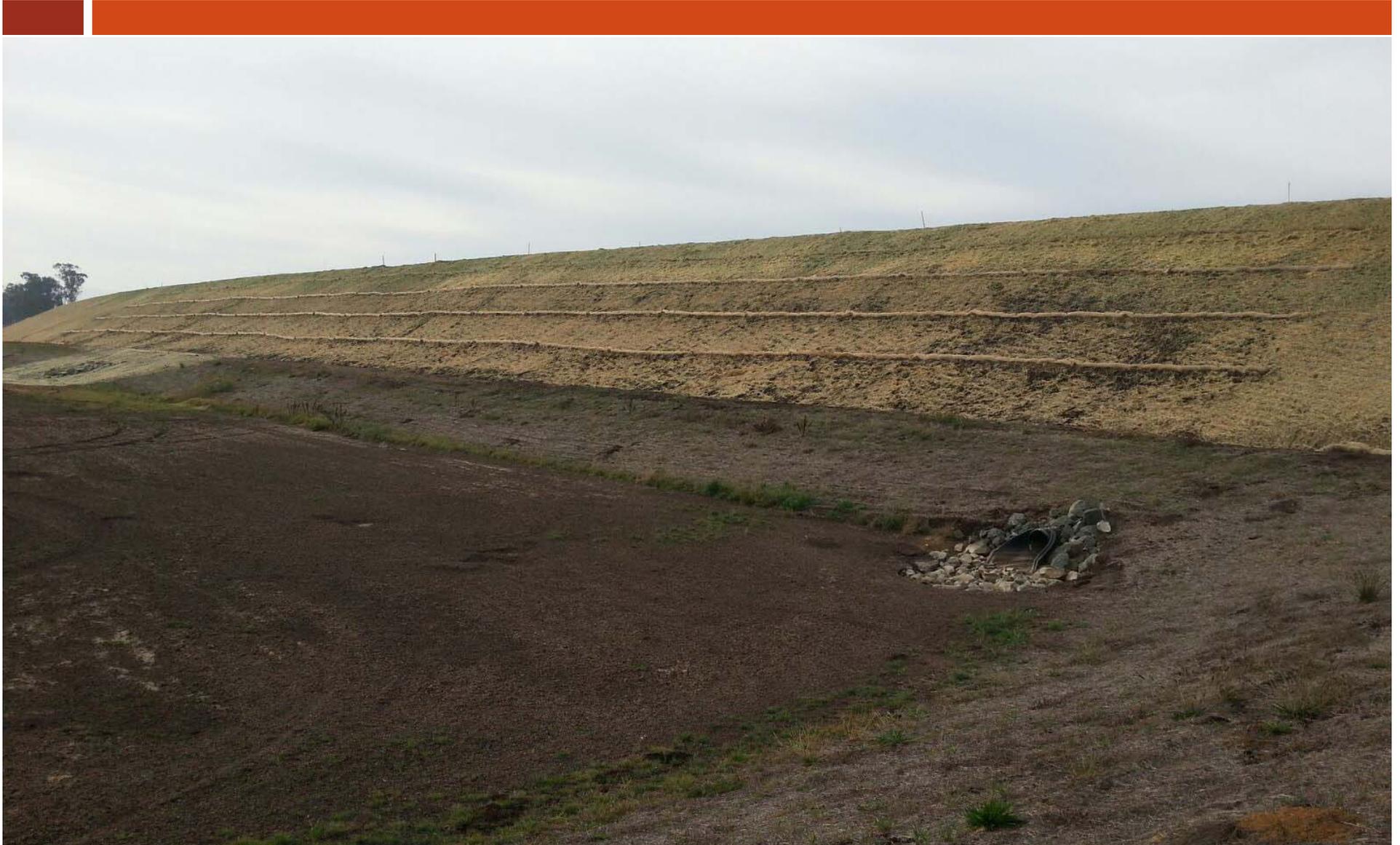
Punched Straw (Location 1)



Tacked Straw (Location 1)



Punched Straw F. Rolls (Location 1)



#2 Blackie Road Interchange (1 of 2)



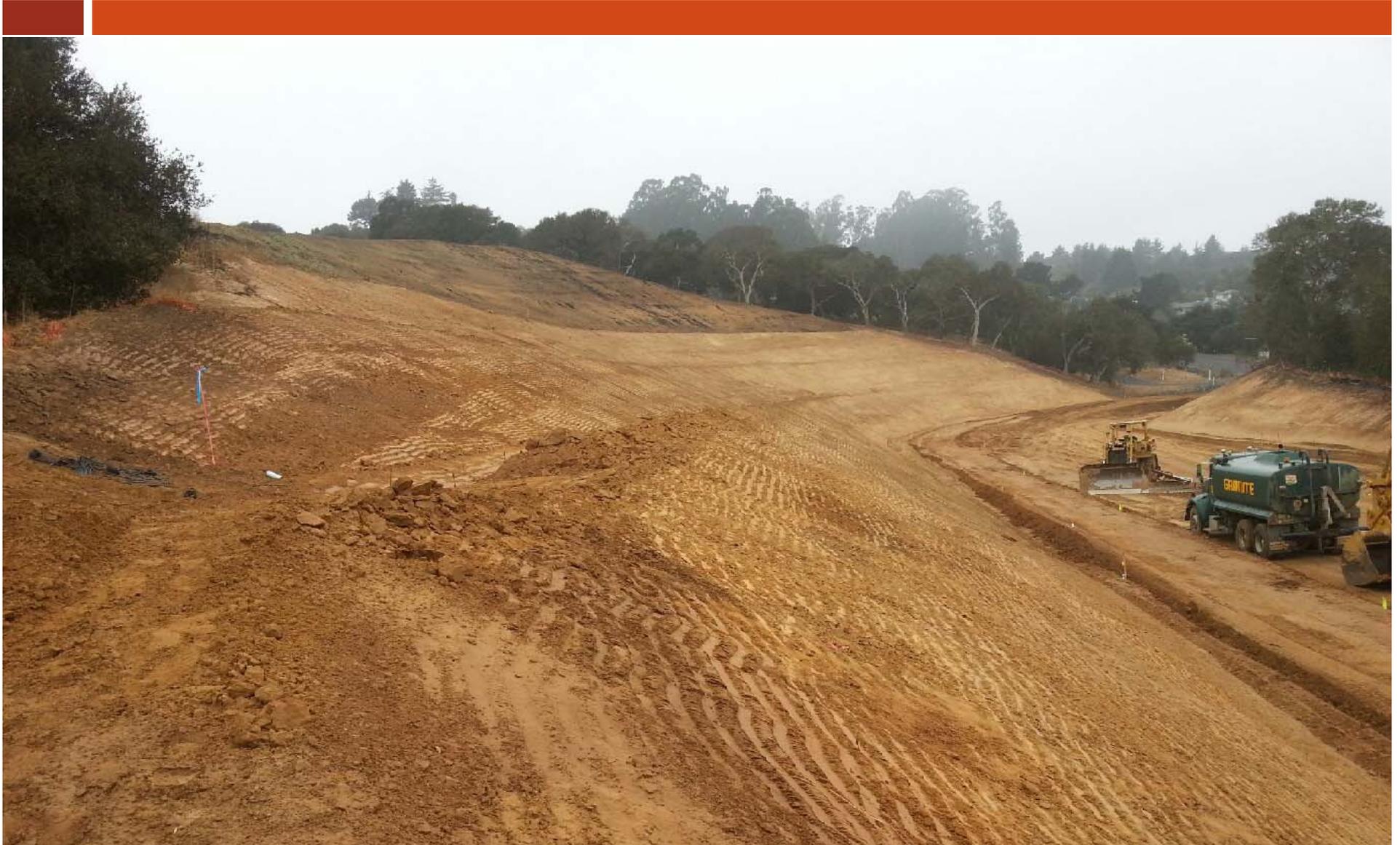
#2 Blackie Road Interchange (1 of 2)



#2 Blackie Road Interchange (2 of 2)



Cut Slope (Location 2)



Composted Slope (Location 2)



Compost Berm (Loc 2)



#4 Crazy Horse Interchange



#4 Crazy Horse Canyon Aerial



#4 Crazy Horse Canyon Aerial



Crazy Horse Canyon Aerial



Crazy Horse Canyon Aerial



Aerial Location 4



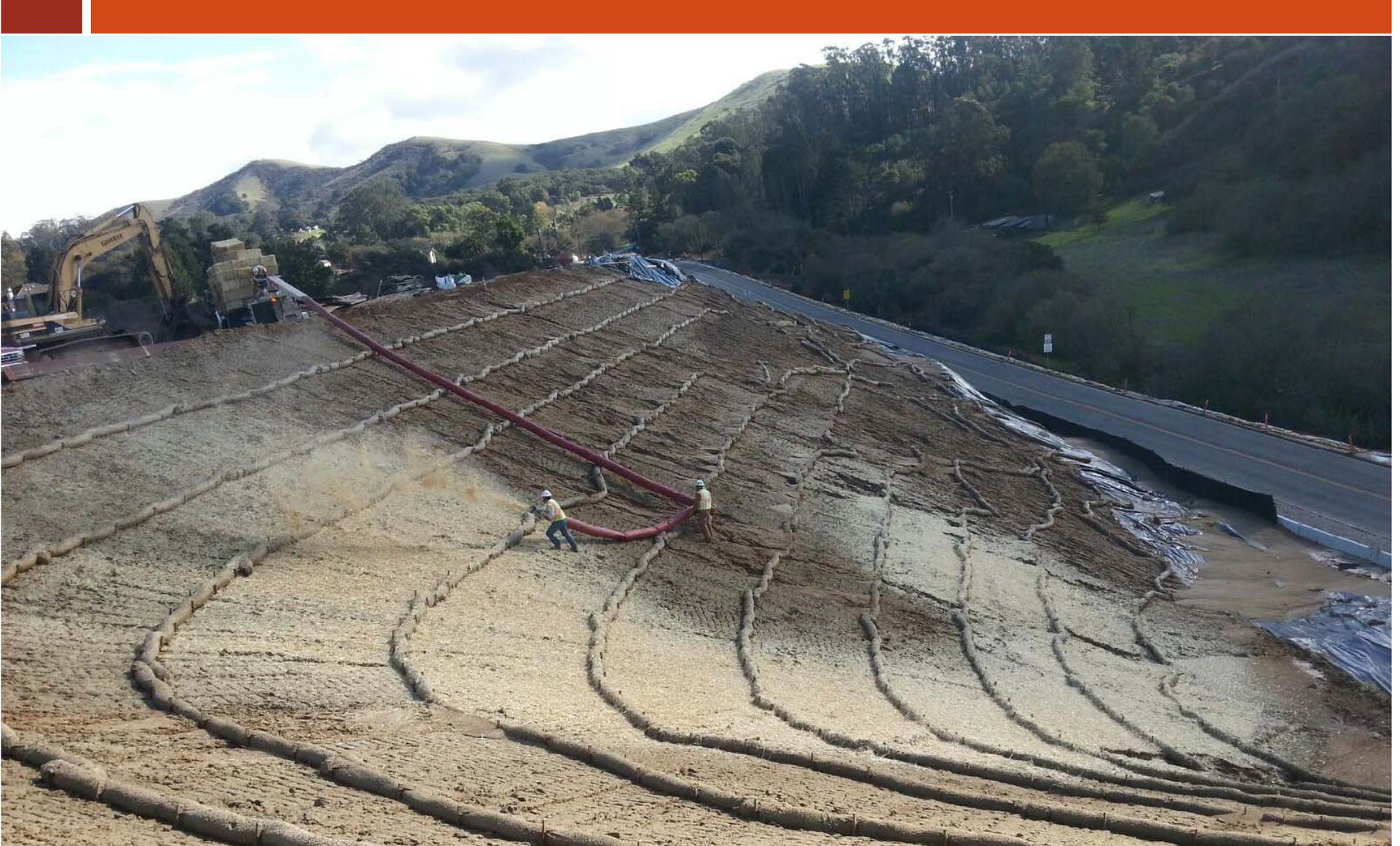
Storm Damage



Storm Damage



Blowing Straw (Location 4)



Punched Straw (Location 4 NB Onramp)



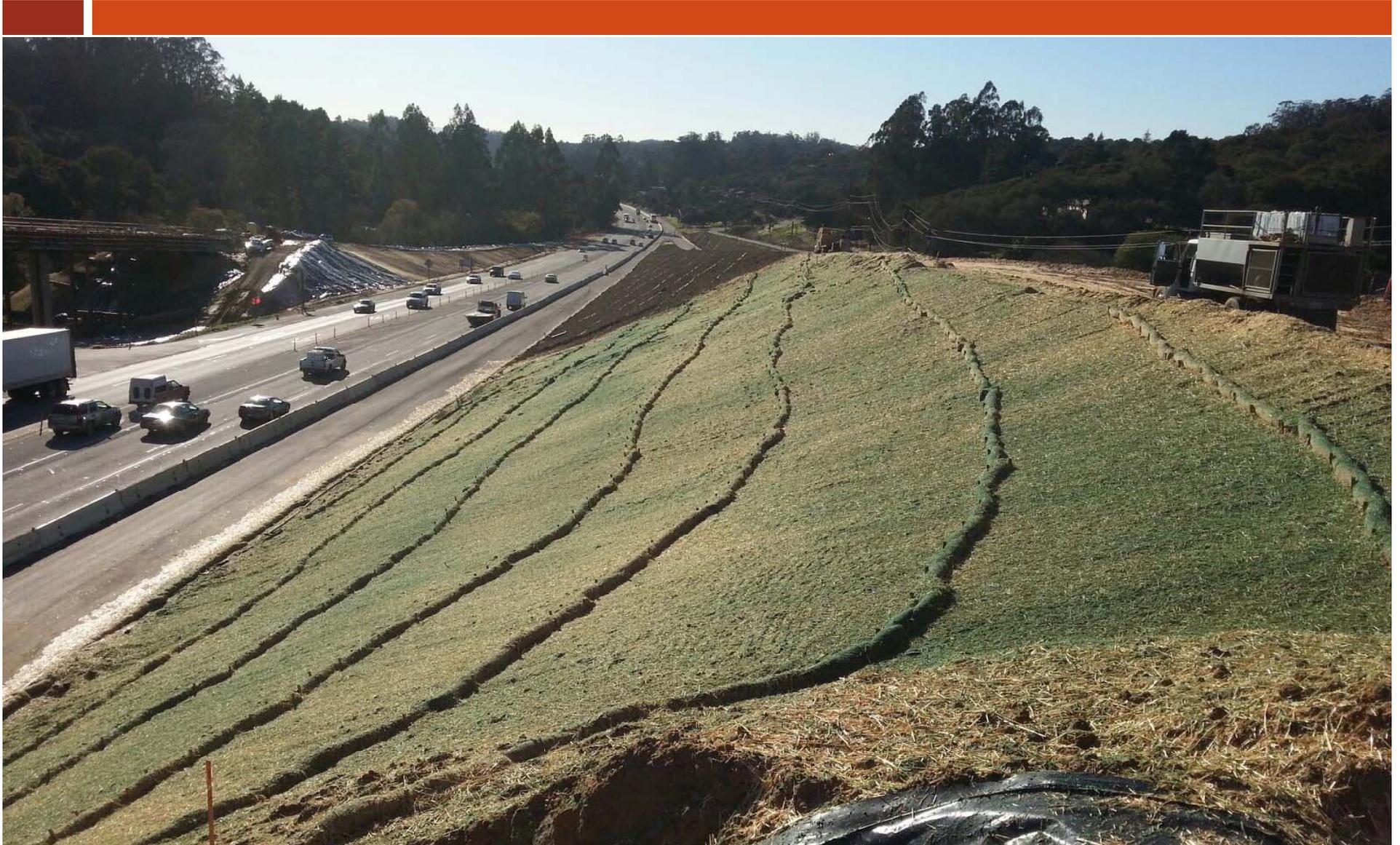
Tacked Straw (Location 4 Repairs)



Punched Straw with Tack (Location 4)



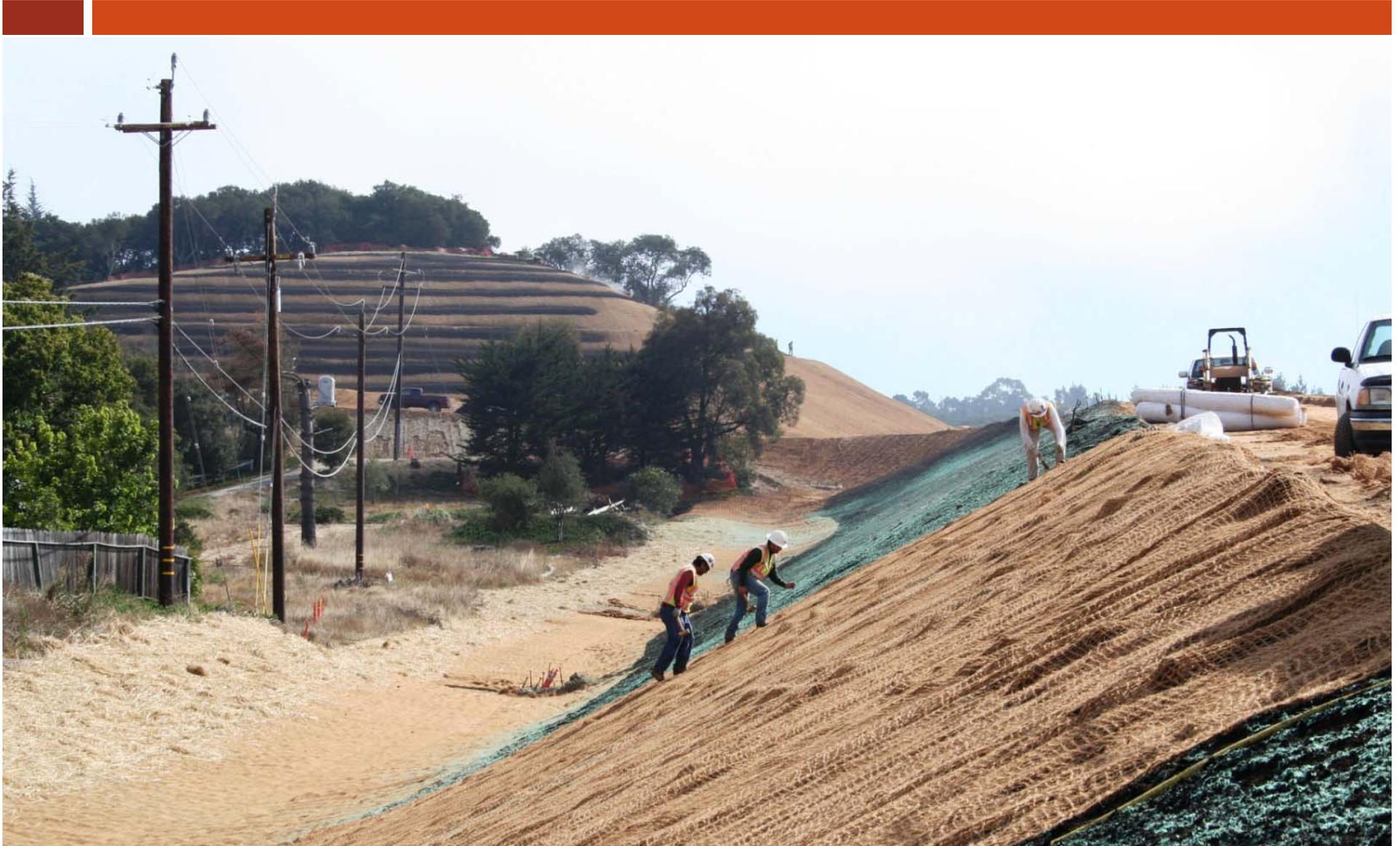
Temp Tacked Straw (Location 4)



Compost Blanket & Sock (Location 4)



Compost Berm (Loc 4)



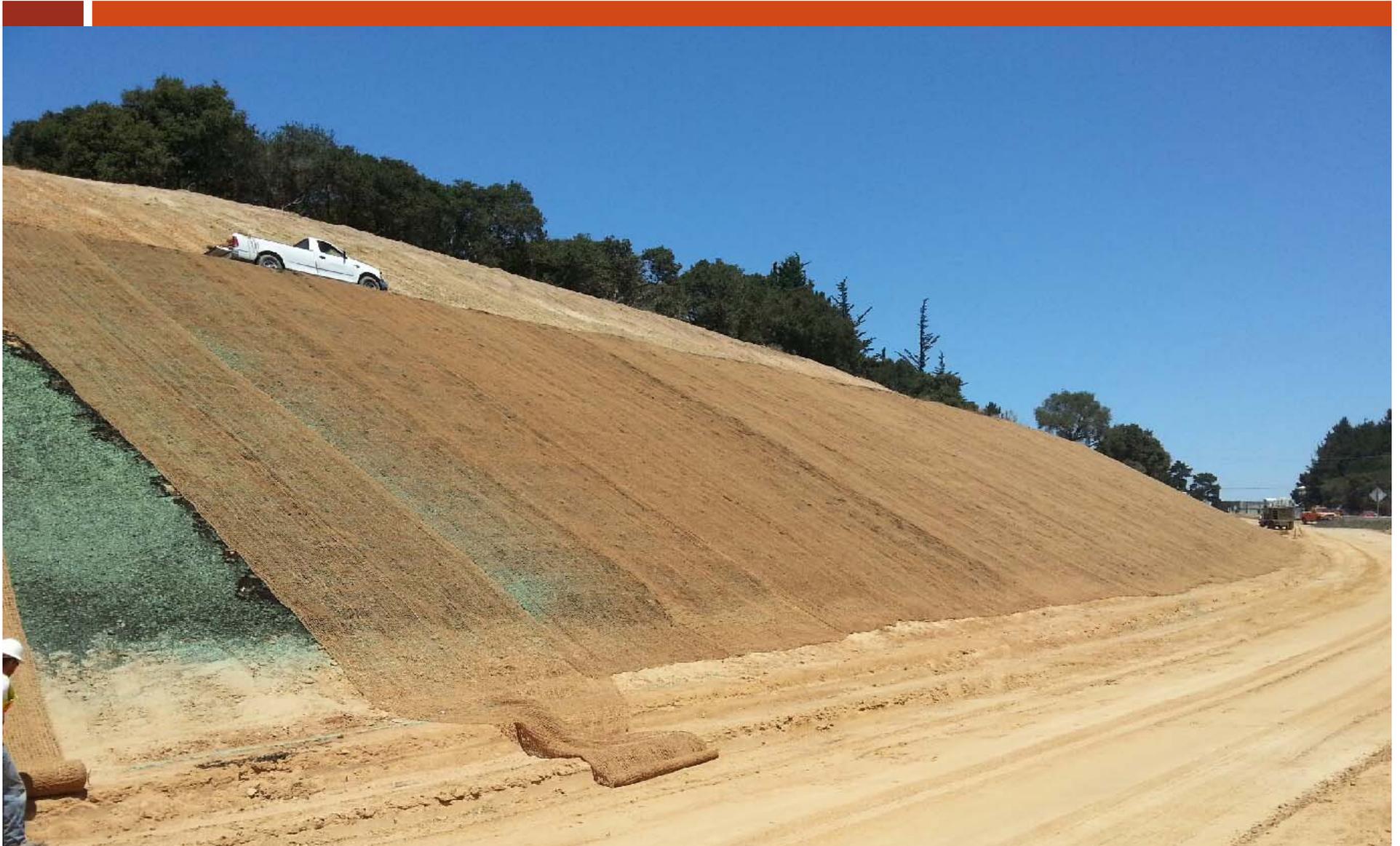
Compost is Hydroseeded Prior to Coir



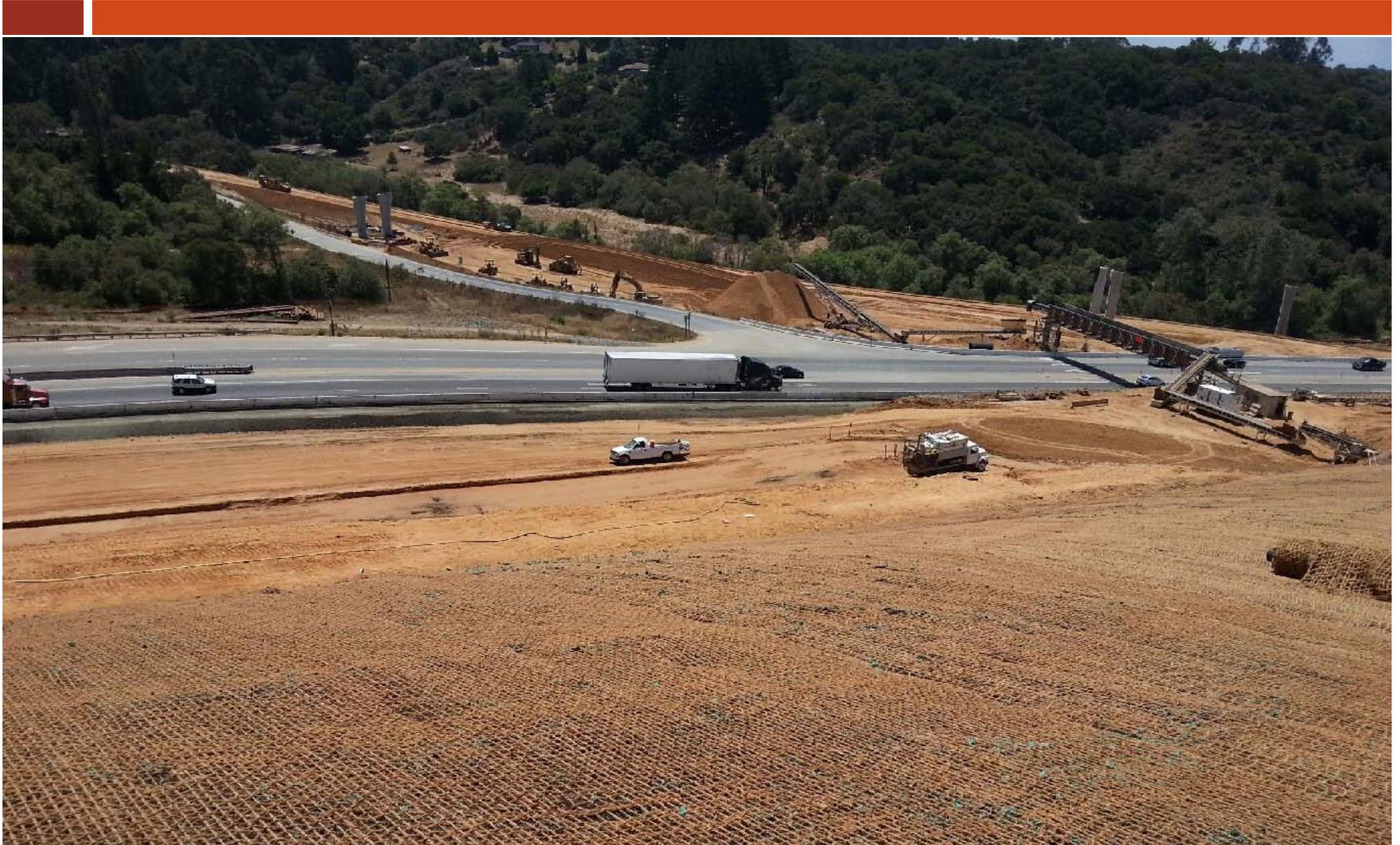
Coir Netting (Location 4)



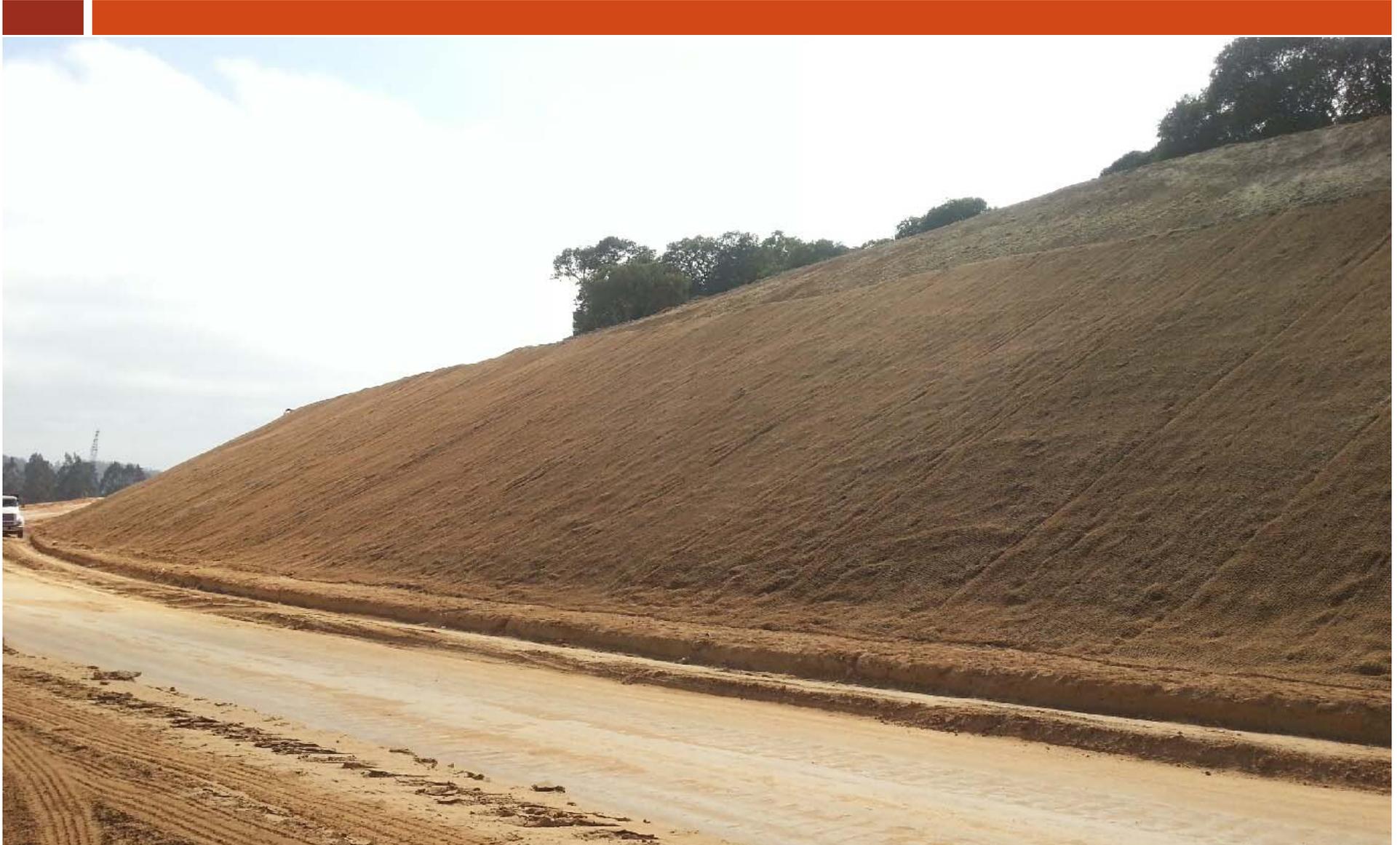
More Coir (Location 4)



Coir Netting (Location 4)



Coir Netting (Location 4)



Complete (Location 4)



Complete (Location 4)



Complete (Location 4)



Failures at Location 4



Coir Damage From Compost Berm



Damage (Location 4)



Damage (Location 4)



Damage (Location 4)



CONTRACTOR PRESENTATION

Selby Erosion Control (Northern California)

Pacific Restoration Group (Southern California)



**Selby's Soil
Erosion Control Co. Inc.**

Erosion Control & Landscape Contractors Meeting

Presented By: Jay Selby
Selbys's Soil Erosion Control

Cal Trans Project



San Diego Fire Storm 2007



Angora Fire, South Lake Tahoe



Angora Fire, South Lake Tahoe



Folsom Dam



San Joaquin Pipeline



Vasco Wind Farms



Sub Contractors to install BMP's



Topics for Discussion



- Straw Blowing & The ARB
- Move In / Move Out
- Extra Work Bills (Forced Account)
- Challenges In Materials Specified
- Compost Blanket

Straw Blowing & The Air Resource Board



Dirty Jobs, Mike Rowe



Move In / Move Out



BMP Move In Move Out



Extra Work Bills (Forced Account)

- Move In / Move Out
- ICAS

Challenges In Materials Specified



Faulty Silt Fence



ESA Fencing



ESA Snow Load



Compost Specifications



Compost Blanket, Blowing



Compost Spreading



Questions



OPEN FORUM DISCUSSION

MEETING SUMMARY

Summarize understanding of issues.

Identify potential action items.

CRITIQUE & EVALUATION

What went well?

What needs improvement?

What should we do differently next time?

Adjourn

Keith's closing remarks