



# 2010 Construction Contract Standards (Specifications)

District Design Stormwater  
Coordinator Training

June 12, 2012



# *2010 CCS Facts*

- ▶ **Section 13** = Water Pollution Control
- ▶ **Section 21** has some BMP materials
- ▶ **Section 14** has ESAs and HAZMAT
- ▶ Bid Item List identifies the Work
- ▶ Minimal SSPs and nSSPs
- ▶ SSPs Read as Amendments
- ▶ Fewer Payment Clauses
- ▶ Reduced Redundancy

**2010 Standards at:**

<http://www.dot.ca.gov/hq/esc/oe/standards.php>



# Section 13 Water Pollution Control

General Specs  
common for all  
jobs

## 13 WATER POLLUTION CONTROL

### 13-1 GENERAL

#### 13-1.01 GENERAL

13-1.01A Summary

13-1.01B Definitions

13-1.01C Submittals

13-1.01D(1) General

13-1.01D(2) Training

13-1.01D(3) Water Pollution Control Manager

WPCP

13-2 WATER POLLUTION CONTROL PROGRAM (WPCP)

SWPPP

13-3 STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

CSM

13-4 JOB SITE MANAGEMENT

BMPs

13-5 TEMPORARY SOIL STABILIZATION

13-6 TEMPORARY SEDIMENT CONTROL

13-7 TEMPORARY TRACKING CONTROL

13-8 TEMPORARY ACTIVE TREATMENT SYSTEM

13-9 TEMPORARY CONCRETE WASHOUTS

13-10 TEMPORARY LINEAR SEDIMENT BARRIERS

# Section 13-3 SWPPP

## 13-3 STORM WATER POLLUTION PREVENTION PLAN

CSMP/SAP

13-3.01B(2)(b) Construction Site Monitoring Program

13-3.01B(2)(c) Sampling and Analysis Plan

13-3.01B(2)(d) SAP for Nonvisible Pollutants

13-3.01B(3) Annual Certification

Inspections  
& Monitoring

13-3.01B(4) Site Inspection Reports

13-3.01B(5) Visual Monitoring Reports

13-3.01B(6) Sampling and Analysis Day

13-3.01B(6)(a) General

NAL/NEL  
Reporting

13-3.01B(6)(b) Numeric Action Level Exceedance Reports

13-3.01B(6)(c) Numeric Effluent Limit Violation Reports

13-3.01B(7) Rain Event Action Plan

REAP

Annual Report

13-3.01B(8) Storm Water Annual Report

NALs

13-3.01C(2) Numeric Action Levels (NALs)

NELs

13-3.01C(3) Numeric Effluent Limits (NELs)



# *Stormwater Bid Items*

Adding a stormwater item to the Bid Item List:

Invokes:

- ▶ Corresponding Standard Specifications
- ▶ Payment from description of work
- ▶ Appropriate Standard Plan

Rarely will you add an SSP, include a detail sheet, or edit a list of BMPs.

Get **2010 bid item list** at: [http://www.dot.ca.gov/hq/esc/oe/specifications/2010\\_guidance/](http://www.dot.ca.gov/hq/esc/oe/specifications/2010_guidance/)



# Bid Items

Stormwater  
contract items

## BID ITEM LIST

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity
1	070012	PROGRESS SCHEDULE (CRITICAL PATH METHOD)	LS	LUMP SUM
2	070018	TIME-RELATED OVERHEAD	WDAY	350
3	071324	TEMPORARY REINFORCED SILT FENCE	LF	29,100
4	071325	TEMPORARY FENCE (TYPE ESA)	LF	540
5	074016	CONSTRUCTION SITE MANAGEMENT	LS	LUMP SUM
6	074019	PREPARE STORM WATER POLLUTION PREVENTION PLAN	LS	LUMP SUM
7	074028	TEMPORARY FIBER ROLL	LF	39,200
8	074029	TEMPORARY SILT FENCE	LF	2,390
9	074032	TEMPORARY CONCRETE WASHOUT FACILITY	EA	8
10	074033	TEMPORARY CONSTRUCTION ENTRANCE	EA	8
11	074035	TEMPORARY CHECKDAM	LF	12,800
12	074037	MOVE-IN/MOVE-OUT (TEMPORARY EROSION CONTROL)	EA	4
13	074038	TEMPORARY DRAINAGE INLET PROTECTION	EA	65
14	074040	TEMPORARY HYDRAULIC MULCH (BONDED FIBER MATRIX)	SQYD	50,400
15	074041	STREET SWEEPING	LS	LUMP SUM
16	074056	RAIN EVENT ACTION PLAN	EA	90
17	074057	STORM WATER ANNUAL REPORT	EA	3
18	074058	STORM WATER SAMPLING AND ANALYSIS DAY	EA	44
19	120090	CONSTRUCTION AREA SIGNS	LS	LUMP SUM



# *PS&E for SWPPP Projects*

**Section 13-3.01A.** Use for all SWPPP projects to specify the project risk level.

For all SWPPP projects, whether risk level 1, 2, or 3, include the following bid items:

- ▶ **074019 Prepare Storm Water Pollution Prevention Plan**
- ▶ **074057 Storm Water Annual Report**

For a risk level 2 or risk level 3 project, include the following additional bid item items:

- ▶ **074056 Rain Event Action Plan**
- ▶ **074058 Storm Water Sampling and Analysis Day**

For all SWPPP projects, whether risk level 1, 2, or 3, include supplemental funds under BEES item **066597 Storm Water Sampling and Analysis.**





# *PS&E for WPCP Projects*

Projects with less than 1 acre of DSA:

- ▶ 074017 Prepare Water Pollution Control Program

Projects with 1 to 5 acres of DSA and qualify for an EPA Rainfall Erosivity Waiver

- ▶ 074017 Prepare Water Pollution Control Program
- ▶ Include SSP 13-2.01A to add text to:
  - Describe Erosivity Waiver and R-Factor
  - Include construction window
  - Include penalty for voiding waiver



# *Stormwater Bid Items*

New stormwater bid items get “13” codes:

074016 Construction Site Management

Becomes:

130100 Job Site Management

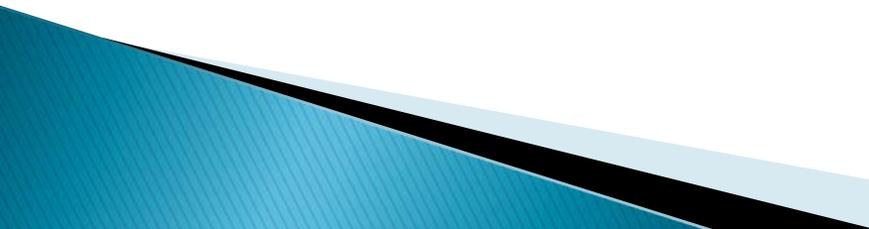


# *Measurement & Payment*

Payment is specified in section 9 and not repeated.

Payment is based on the item of work and the unit of measure in the bid item list. Payment includes the work described in the specification for that bid item.

See page 112 regarding Payment Scope in **Section 9-1.03** of *Standard Specifications*.





# *2010 Index of SSPs*

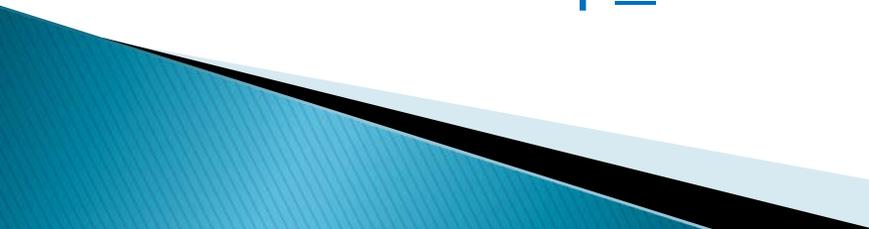
Section 13 Stormwater SSPs are indexed by number. Includes instructions for use.

## Examples:

- ▶ 13-2.01A WPCP Jobs with Erosivity Waiver
- ▶ 13-3.01A Risk Level for SWPPP Jobs
- ▶ 13-7.03D Modify Street Sweeping Requirements

Get **2010\_Index.doc** at:

[http://www.dot.ca.gov/hq/esc/oe/specifications/SSPs/2010-SSPs/ssp\\_index/](http://www.dot.ca.gov/hq/esc/oe/specifications/SSPs/2010-SSPs/ssp_index/)





# *Non-Standard Special Provisions (nSSPs)*

Only approved 2006 SSPs were incorporated into the 2010 *Standard Specifications*.

Current nSSPs will be new 2010 nSSPs.

## Examples:

- ▶ Turbidity Control
  - ▶ Temporary Creek Diversion System
  - ▶ Water Quality Monitoring
- 



# *Non-Standard Special Provisions (nSSPs)*

Since every nSSP and SSP has a home in the *Standard Specifications*, target an exact section to change.

R-A-D: Replace, add, or delete text in the *Standard Specifications*.

If you can't locate appropriate text to change, use a "reserved" section.



# Summary of Quantities

## TEMPORARY WATER POLLUTION CONTROL QUANTITIES

SHEET No.	Temp FIBER ROLL	Temp REINFORCED SILT FENCE	Temp SILT FENCE	Temp CHECK DAM		Temp HYDRAULIC MULCH (BONDED FIBER MATRIX)	Temp DRAINAGE INLET PROTECTION	Temp CONCRETE WASHOUT FACILITY	Temp CONSTRUCTION ENTRANCE
				TYPE 1	TYPE 2				
	LF	LF	LF	LF	LF	SQYD	EA	EA	EA
WPC-1	2,878	804		390			2		
WPC-2	2,786	3,345		1,470	288	4,839	10		
		3,366		1,830	476	12,210	13		
							1		
					130	2,196	4		
					312	15,795	8		
				2,505	1,078	15,269	13		
	1,888	7,702		600	241		12		
WPC-9	2,080	1,803					2		
WPC1-9								8	8
TOTAL	39,152	29,008	2384	12,708		50,309	65	8	8

Required:  
> BMPs shown Q Sheets

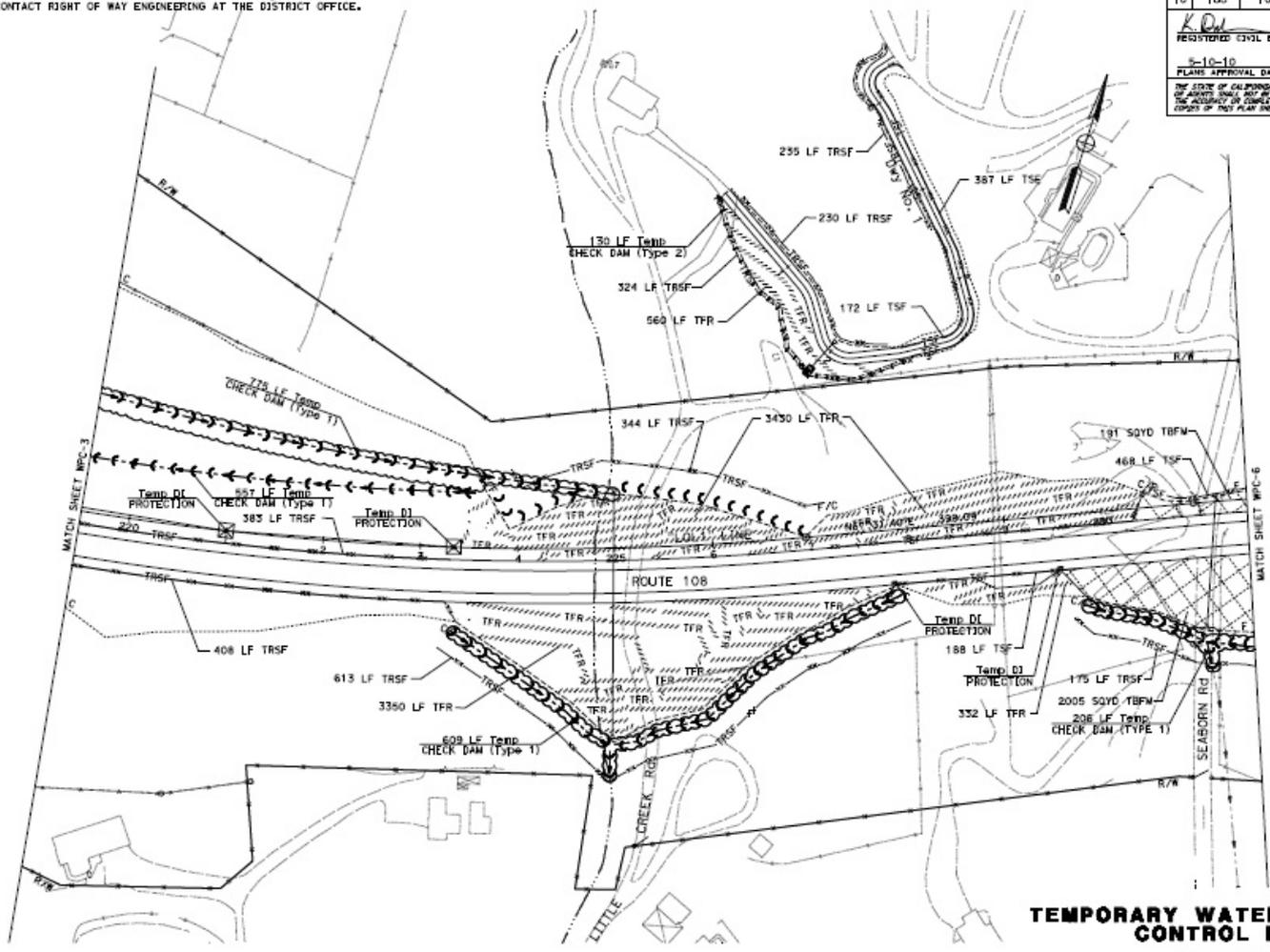
LOCATIONS OF Temp WATER POLLUTION CONTROL SHOWN ARE APPROXIMATE, EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER.

# WPC Plans

NOTE: FOR ACCURATE RIGHT OF WAY AND ACCESS DATA,  
CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Tul	108	R4.0/R6.0	49	237

K.O. 01-06-10  
 REGISTERED CIVIL ENGINEER DATE  
 5-10-10  
 PLANS APPROVAL DATE  
 THE STATE OF CALIFORNIA BY ITS OFFICE OF AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

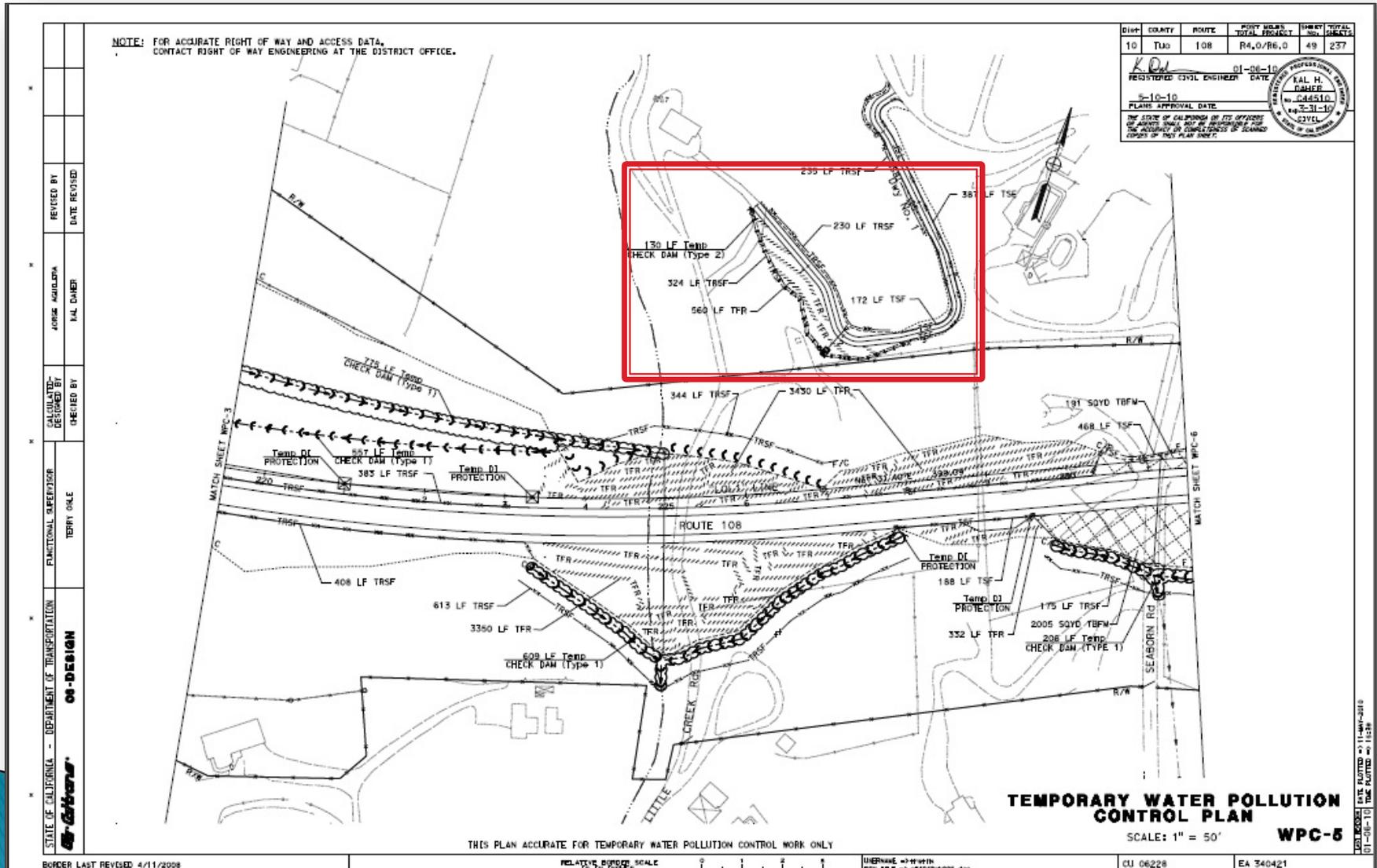


**TEMPORARY WATER POLLUTION CONTROL PLAN**  
**WPC-5**  
 SCALE: 1" = 50'

THIS PLAN ACCURATE FOR TEMPORARY WATER POLLUTION CONTROL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	DESIGNED BY	REVISIONS
<b>CS-Design</b>	TERRY OGLE	JORGE AGUILERA	DATE REVISION
		KAL DANER	

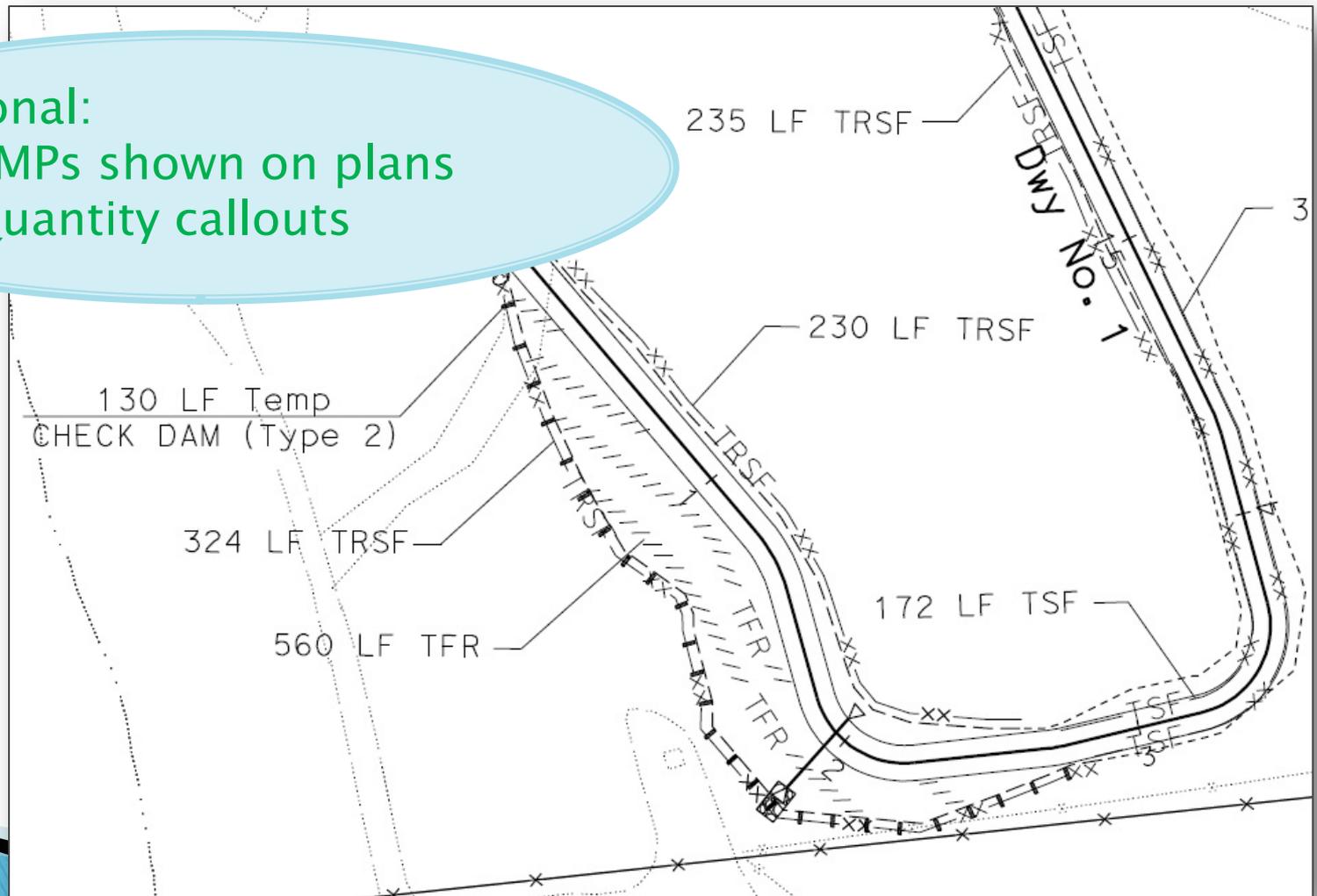
# WPC Plans



# WPC Plans

Optional:

- > BMPs shown on plans
- > Quantity callouts



# SSPs



### 12-8.03. CONSTRUCTION

Before applying binder that will obliterate existing traffic stripes, place temporary raised pavement markers on the existing traffic stripes except right edge lines at intervals of not more than 24 feet. Place 2 markers side by side on double traffic stripes, 1 on each stripe longitudinally at intervals not exceeding 24 feet. Before opening the lanes to uncontrolled traffic, remove the covers from the temporary raised pavement markers.

Where no-passing centerline pavement delineation is obliterated, install the following temporary no-passing zone signs before opening lanes to traffic. Install a W20-1, "Road Work Ahead," sign from 1,000 feet to 2,000 feet in advance of a no-passing zone. Install a R4-1, "Do Not Pass," sign at the beginning of a no-passing zone and at 2,000-foot intervals within the no-passing zone. For continuous zones longer than 2 miles, install a W7-3a or W71(CA), "Next \_\_\_ Miles," sign beneath the W20-1 sign. Install a R4-2, "Pass With Care," sign at the end of the no-passing zone. The Engineer determines the exact location of temporary no-passing zone signs. Maintain the temporary no-passing zone signs in place until you place the permanent no-passing centerline pavement delineation. Remove the temporary no-passing zone signs when the Engineer determines they are no longer required for the direction of traffic.

Maintain temporary pavement delineation until you replace it with the permanent pavement delineation. Remove the temporary pavement delineation if the Engineer determines it conflicts with the permanent pavement delineation.

### 12-8.04. PAYMENT

Not Used

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### 13. WATER POLLUTION CONTROL

**Add to section 13-3.01A:**

The project is risk level 2.

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### 14. ENVIRONMENTAL STEWARDSHIP

**Add to section 14-1.02:**

An ESA exists on this project.

Before start of work, protect the ESA by installing Type ESA Temporary Fence.

**Replace section 14-11.07 with:**

#### 14-11.07. REMOVE YELLOW TRAFFIC STRIPE AND PAVEMENT MARKING WITH HAZARDOUS WASTE RESIDUE

##### 14-11.07A. General

##### 14-11.07A(1) Summary

Section 14-11.07 includes specifications for removing existing yellow thermoplastic and yellow painted traffic stripe and pavement marking. The residue from the removal of this material is a Department-generated hazardous waste.

Residue from removal of yellow thermoplastic and yellow painted traffic stripe and pavement marking contains lead chromate. The average lead concentration is at least 1,000 mg/kg total lead or 5 mg/l soluble lead. When

# SSPs

## 12-8.03 CONSTRUCTION

Before applying binder that will obliterate existing traffic stripes, place temporary raised pavement markers on the existing traffic stripes except right edge lines at intervals of not more than 24 feet. Place 2 markers side by side on double traffic stripes. 1 on each stripe longitudinally at intervals not exceeding 24 feet. Before opening the lanes to uncontrolled traffic, remove the covers from the temporary raised pavement markers.

Where no-passing centerline pavement delineation is obliterated, install the following temporary no-passing zone signs before opening lanes to traffic. Install a W2-1 "Road Work Ahead," sign from 1,000 feet to 2,000 feet in advance of a no-passing zone. Install a R4-1 "No Pass," sign at the beginning of a no-passing zone and at 2,000-foot intervals within the no-passing zone. For continuous zones longer than 2 miles, install a W7-3a or W71(CA), "Next \_\_\_ Miles," sign beneath the "No Pass" sign. Install a R4-2, "Pass With Care," sign at the end of the no-passing zone. The Engineer determines the exact location of temporary no-passing zone signs. Maintain the temporary no-passing zone signs until the permanent no-passing centerline pavement is placed. Remove the temporary signs when the Engineer determines they are no longer needed in the direction of travel.

Remove the temporary pavement delineation. Remove the permanent pavement.

# Streamlined!

MENTA

dd to section 14-1.02:

exists on this project.

start of work, protect the ESA by installing Type ESA Temporary Fence.

Replace section 14-11.07 with:

### 14-11.07 REMOVE YELLOW TRAFFIC STRIPE AND PAVEMENT MARKING WITH HAZARDOUS WASTE RESIDUE

#### 14-11.07A General

#### 14-11.07A(1) Summary

Section 14-11.07 includes specifications for removing existing yellow thermoplastic and yellow painted traffic stripe and pavement marking. The residue from the removal of this material is a Department-generated hazardous waste.

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# *Current Issues*

## Paying for Construction Site BMPs:

- ▶ For payment, review all of Section 9; specifically, 9-1.03 Payment Scope.
- ▶ For temporary facilities, review Section 5-1.36A

## RE Review time for WPCP/SWPPP

- ▶ 15 day allowance no longer in specs

## Temporary Concrete Washout Specs

- ▶ New lump sum item
- ▶ Contractor chooses type

# *Current Issues (cont.)*

## Temporary Cover:

- ▶ For soil stabilization; not stockpile management
- ▶ Stockpiles covered under Job Site Management

## PSFM and Temp PSFM specs are cancelled

- ▶ Patent makes proprietary
- ▶ Product likely qualifies as a BFM

## NEL Removal from CGP

- ▶ Blanket Concurrence for 07-345