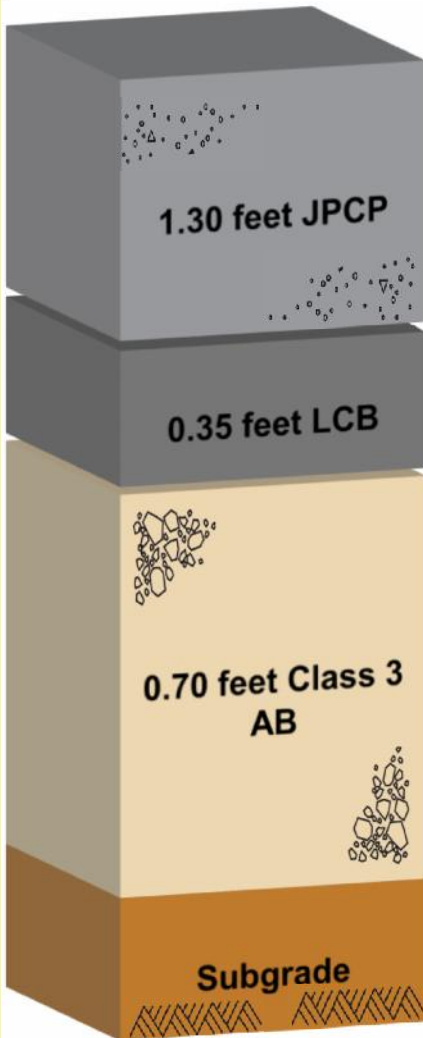
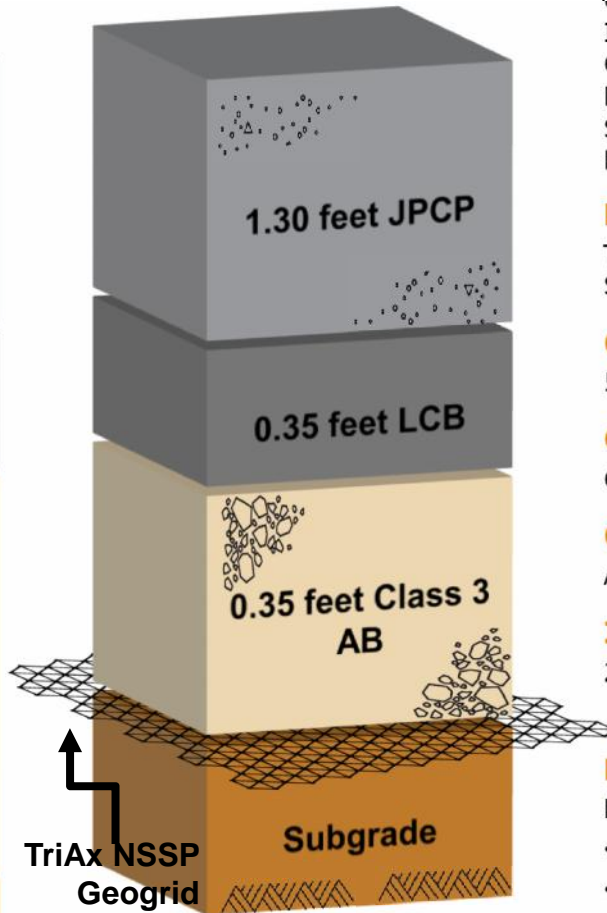




Non-Stabilized Section



TriAx Geogrid NSSP Enhanced Section



**PROJECT NAME**

Contract No. 07-252624, Interstate 5 in Los Angeles County and at Castaic FROM 0.2 Mile South of Route 5/14 Separation to 0.70 Mile North of Palomas Wash Bridge.

**PRODUCT**

TriAx® Geogrid Non-Standard Special Provision (NSSP)

**QUANTITY**

500,000 square yards

**OWNER**

Caltrans

**CONTRACTOR**

Atkinson Construction

**INSTALLATION DATE**

2017

**PROJECT DETAILS**

Project challenges consisted of:

- Short Working Windows from
- Minimal working space
- Non-uniform subgrade

The TriAx enhanced design created a long term uniform Class 3 AB layer, enhancing the performance of the pavement structure. Reducing 0.35 feet of Class 3 AB created a sustainable project meeting several of the goals in the Caltrans sustainability policy DP-33 such as Planet, Prosperity, and Innovation. Below is the Construction, Operation, and Maintenance Estimated Enhancement Summary:

Description	Units	Savings
Aggregate Base Import	Cubic Yards	60,000
Excavation Export	Cubic Yards	60,000
Truck Loads	Number	10,500
Water	Gallons	2,000,000
Fuel	Gallons	37,000
Carbon Output Emissions	Tonnes of CO <sub>2</sub>	TBD



INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2-9	TYPICAL CROSS SECTIONS
10	PROJECT CONTROL AND MONUMENTATION
11-77	LAYOUTS
78-88	CONSTRUCTION DETAILS
89-155	UTILITY PLANS
156	CONSTRUCTION AREA SIGNS
157-227	STAGE CONSTRUCTION AND TRAFFIC HANDLING PLANS
228-234	STAGE CONSTRUCTION AND TRAFFIC HANDLING QUANTITIES
235-243	TRAFFIC HANDLING DETAILS
244-247	PAVEMENT DELINEATION QUANTITIES
248-255	SUMMARY OF QUANTITIES
256-282	ELECTRICAL PLANS
283-294	REVISED STANDARD PLANS

THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

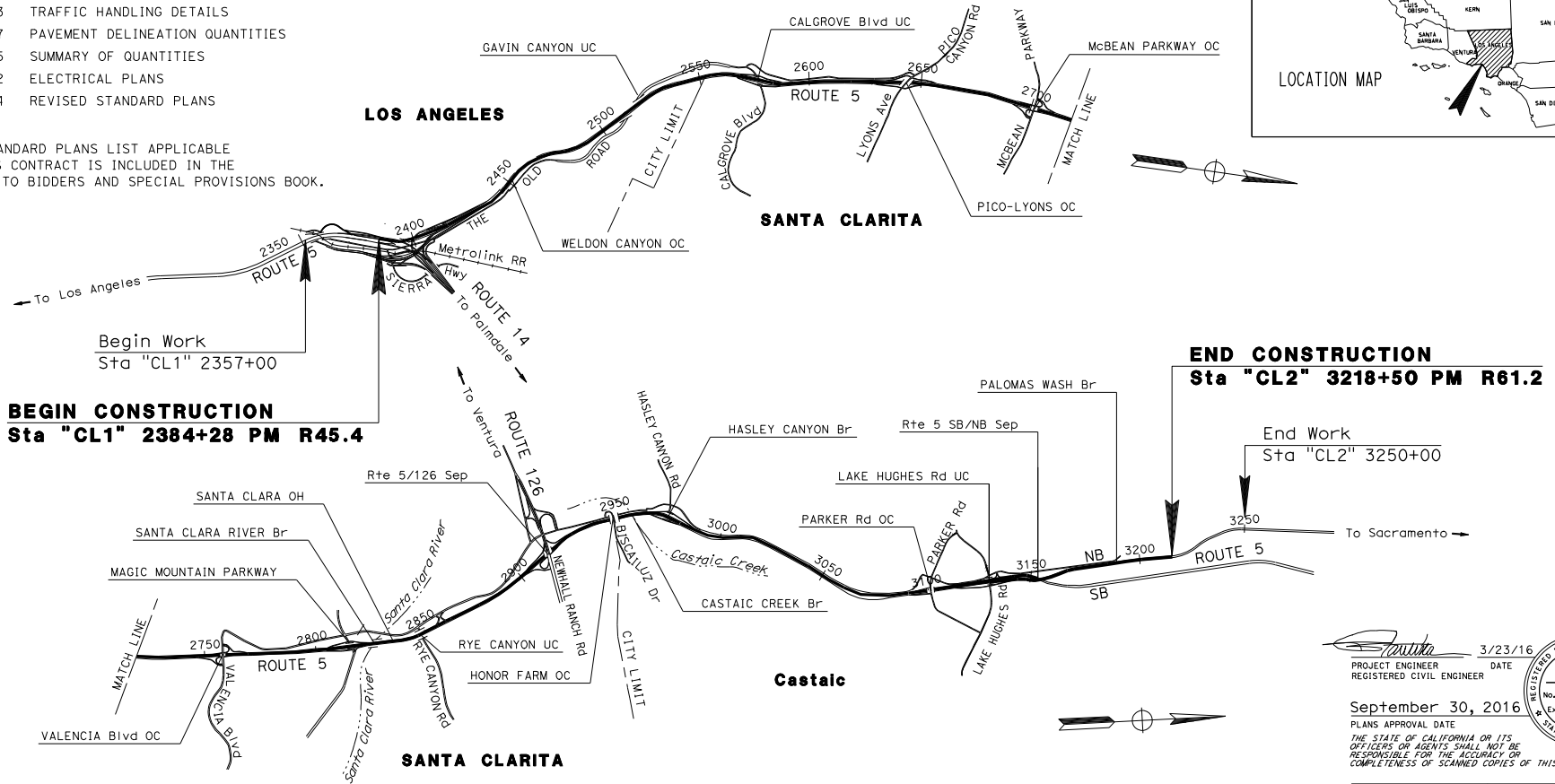
STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

ACIM-005-3(122)E

PROJECT PLANS FOR CONSTRUCTION ON  
STATE HIGHWAY  
IN LOS ANGELES COUNTY  
IN LOS ANGELES AND AT CASTAIC  
FROM 0.2 MILE SOUTH OF ROUTE 5/14 SEPARATION  
TO 0.7 MILE NORTH OF PALOMAS WASH BRIDGE

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2015

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	R45.4/R61.2	1	294



**BEGIN CONSTRUCTION**  
Sta "CL1" 2384+28 PM R45.4

**END CONSTRUCTION**  
Sta "CL2" 3218+50 PM R61.2

Begin Work  
Sta "CL1" 2357+00

End Work  
Sta "CL2" 3250+00

PROJECT ENGINEER DATE 3/23/16  
REGISTERED CIVIL ENGINEER  
CASIMIRO BAUTISTA  
No. C65169  
Exp. 9/30/17  
CIVIL ENGINEER  
STATE OF CALIFORNIA

September 30, 2016  
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.

CONTRACT No.	<b>07-252624</b>
PROJECT ID	<b>0700021272</b>

THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO BIDDERS."

NO SCALE

40 of 321

DATE PLOTTED => 01-DEC-2016  
TIME PLOTTED => 13:17



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 DESIGN  
 FUNCTIONAL SUPERVISOR M. OUT KALLU  
 CHECKED BY KENNY HA  
 DESIGNED BY CASIMIRO BAUTISTA  
 REVISIONS: CB 07-29-16  
 DATE REVISED 07-29-16

**NOTES:**  
 1. DIMENSIONS OF THE PAVEMENT STRUCTURE (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.  
 2. DATA CORES SHALL BE USED TO VERIFY EXISTING STRUCTURE SECTIONS BEFORE CONSTRUCTION.

**ABBREVIATIONS:**

- ATB - ALTERNATE TREATED BASE
- RS - RAPID SETTING
- RSC - RAPID STRENGTH CONCRETE
- IPSR - INDIVIDUAL PRECAST SLAB REPLACEMENT
- DIKE-A - HOT MIX ASPHALT DIKE (TYPE A)
- RHMA-G - RUBBERIZED HOT MIX ASPHALT (GAP GRADED)
- GEOGRID - SUBGRADE ENHANCEMENT GEOSYNTHETIC (GEOSYNTHETIC REINFORCEMENT)

**ROUTE 5  
 DESIGN DESIGNATION**

ADT (2013)	195,000	D	52%
ADT (2033)	290,000	T	9.5%
DHV	8,900	V	70mph
ESAL	262,000	TI <sub>80</sub>	17.0

**PAVEMENT CLIMATE REGION**

INLAND VALLEY

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5	R45.4/R61.2	2	294

REGISTERED CIVIL ENGINEER DATE 7/29/16  
 CASIMIRO BAUTISTA  
 No. C65169  
 Exp. 9-30-17  
 CIVIL ENGINEER  
 STATE OF CALIFORNIA

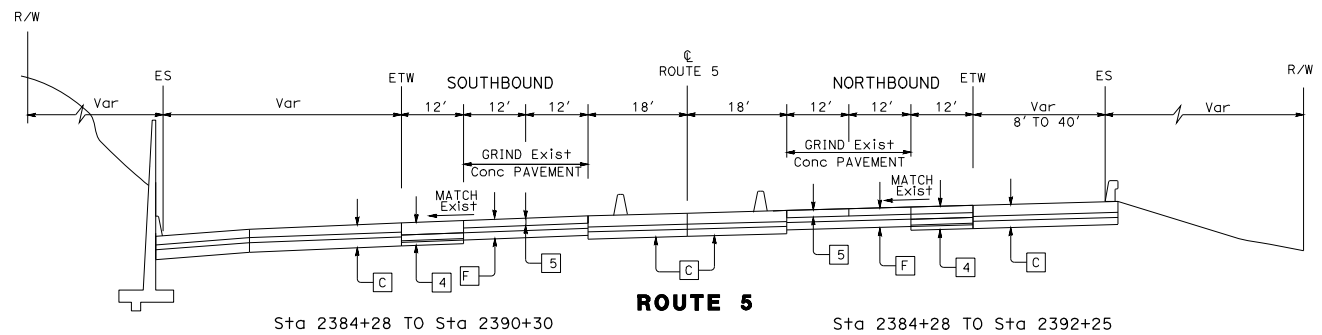
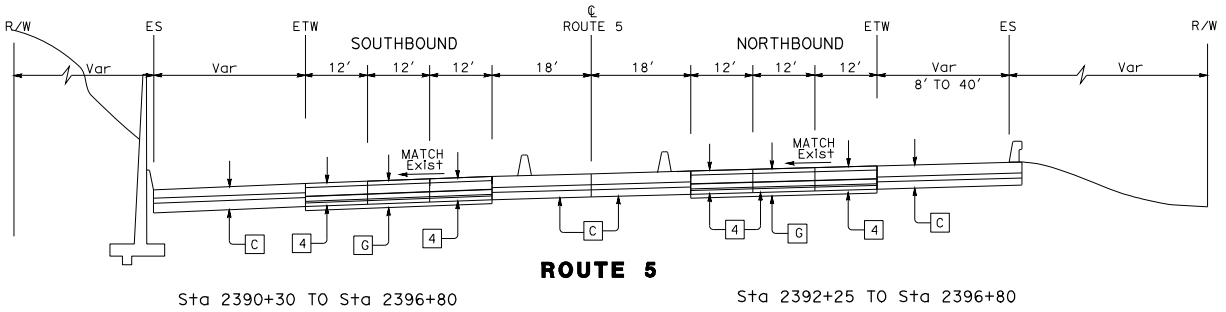
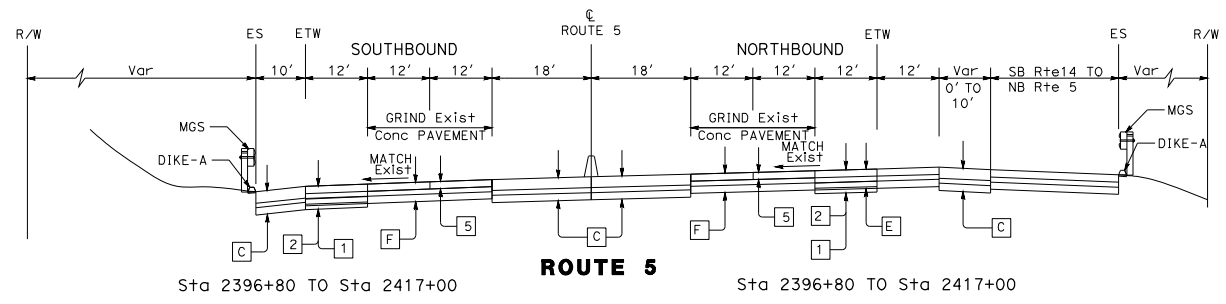
PLANS APPROVAL DATE 9-30-16  
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

**EXISTING STRUCTURE SECTIONS**

- A | 1.25' PCC  
0.50' LCB  
0.70' AB
- B | 1.15' PCC  
0.50' LCB  
0.70' AB
- C | 0.95' PCC  
0.50' LCB  
0.70' AB
- D | 0.85' PCC  
0.50' LCB  
0.70' AB
- E | 0.80' PCC  
0.40' CTB  
0.50' AB
- F | 0.65'-0.75' PCC  
0.58' CTB  
0.67' AB
- G | 0.35' AC  
0.65-0.75' PCC  
0.58' CTB  
0.67' AB
- L | 1.25' AC  
0.50' LCB  
0.70' AB
- M | 0.60' AC  
1.75' AB
- N | 0.40' AC  
1.05' AB
- O | 0.33' AC  
1.73' AB
- P | 0.25' AC  
1.75' AB

**TYPICAL PAVEMENT STRUCTURE SECTIONS**

- 1 | 1.30' JPCP  
--- BASE BOND BREAKER  
0.35' ATB  
0.35' CLASS 3 AB  
--- GEOGRID TriAx NSSP TX130S GEOGRID
- 2 | 1.30' JPCP (RSC)  
--- BASE BOND BREAKER  
0.35' ATB  
0.35' CLASS 3 AB  
--- GEOGRID TriAx NSSP TX130S GEOGRID
- 3 | 1.15' JPCP  
--- BASE BOND BREAKER  
0.35' ATB  
0.35' CLASS 3 AB  
--- GEOGRID TriAx NSSP TX130S GEOGRID
- 4 | 1.15' JPCP (RSC)  
--- BASE BOND BREAKER  
0.35' ATB  
0.35' CLASS 3 AB  
--- GEOGRID TriAx NSSP TX130S GEOGRID
- 5 | 0.65' INDIVIDUAL PRECAST SLAB REPLACEMENT  
0.05'-0.25' LCB-RS
- 6 | 0.15' COLD PLANE AC PAVEMENT  
0.15' RHMA-G
- 7 | 0.75' INDIVIDUAL SLAB REPLACEMENT (RSC)  
BASE BOND BREAKER

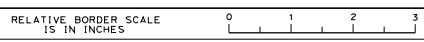


**TYPICAL CROSS SECTIONS**  
 NO SCALE

X-1

BORDER LAST REVISED 7/2/2010

USERNAME => s119140  
 DGN FILE => 725262c001.dgn



UNIT 1806

PROJECT NUMBER & PHASE

07000212721

07-29-16

LAST REVISION DATE PLOTTED => 01-DEC-2016  
 07-29-16 TIME PLOTTED => 13:17