

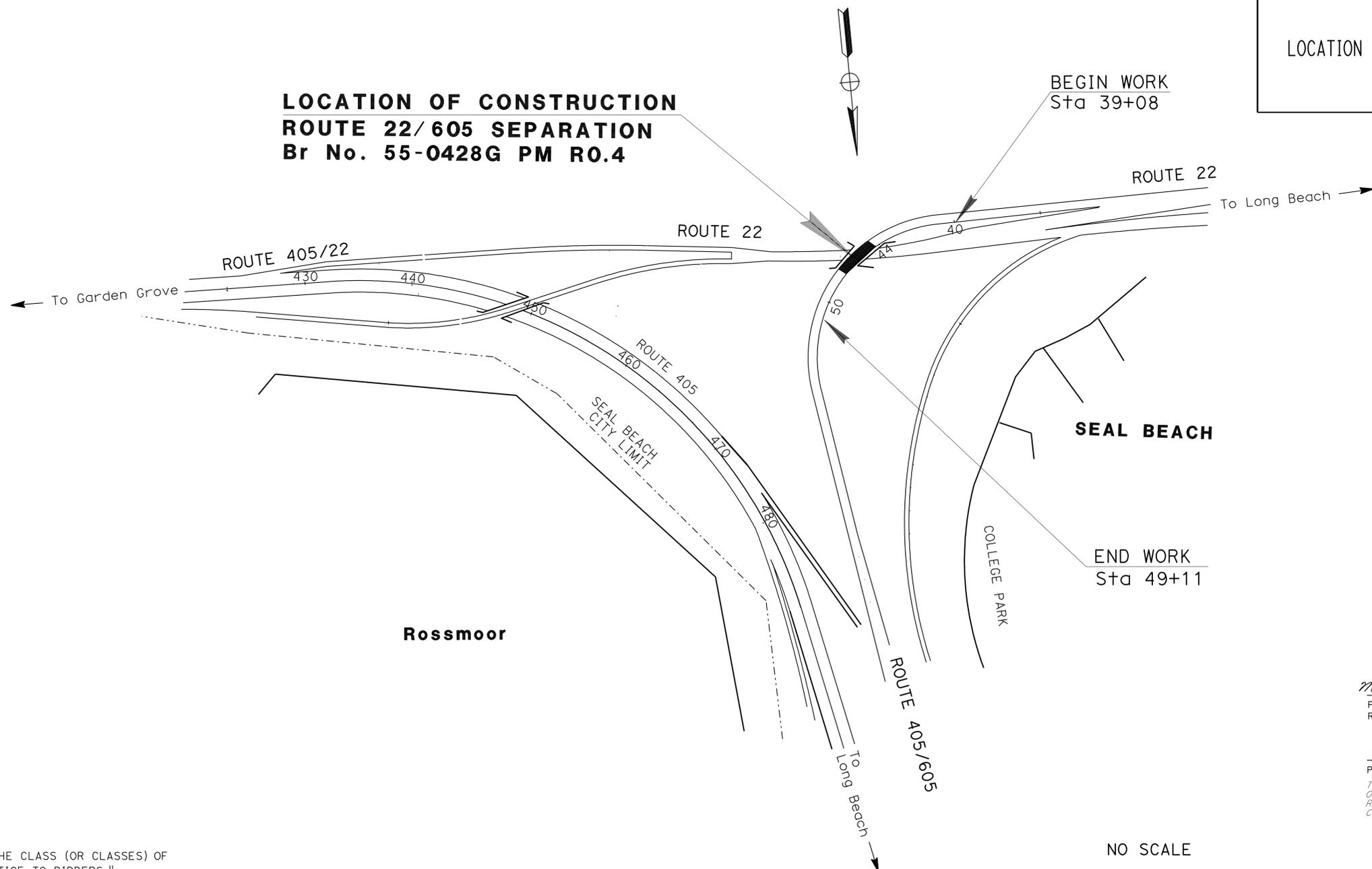
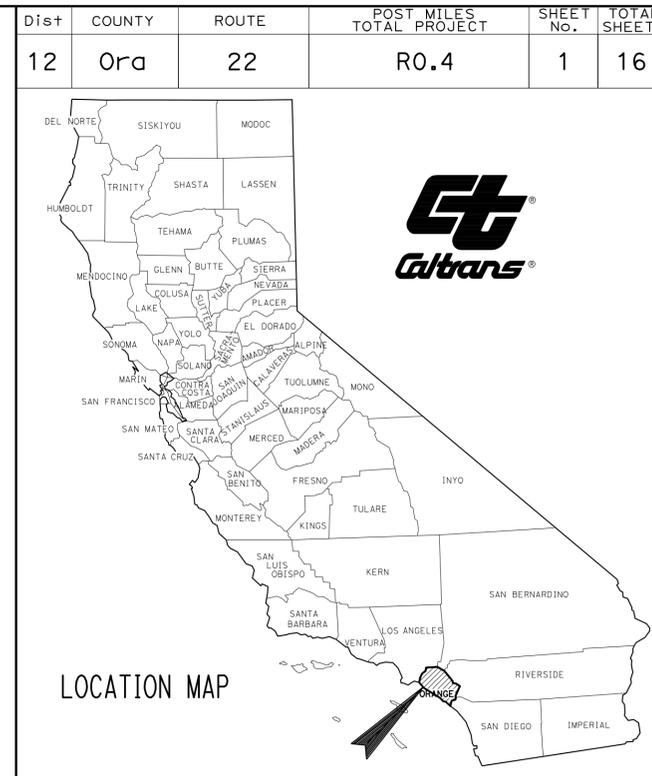
INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	TYPICAL CROSS SECTIONS
3	LAYOUTS
4-5	CONSTRUCTION AREA SIGNS
6	SUMMARY OF QUANTITIES
7-14	REVISED AND NEW STANDARD PLANS
STRUCTURE PLANS	
15-16	E22-N605 AND N405/22 CONNECTOR SEPARATION Br No. 55-0428G

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
PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN ORANGE COUNTY
IN SEAL BEACH AT EASTBOUND 22
NORTHBOUND 605 AND
NORTHBOUND 405/22 CONNECTOR SEPARATION

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



PROJECT MANAGER AHAMAD HINDIYEH	DESIGN ENGINEER MATTHEW O. CUGINI
------------------------------------	--------------------------------------

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

NO SCALE

Matthew O. Cugini 05-12-10
 PROJECT ENGINEER DATE
 REGISTERED CIVIL ENGINEER



June 1, 2010
 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.	12-OK5504
PROJECT ID	1200000356

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22	RO.4	2	16

Matthew Z. Cugini 05-12-10
REGISTERED CIVIL ENGINEER DATE

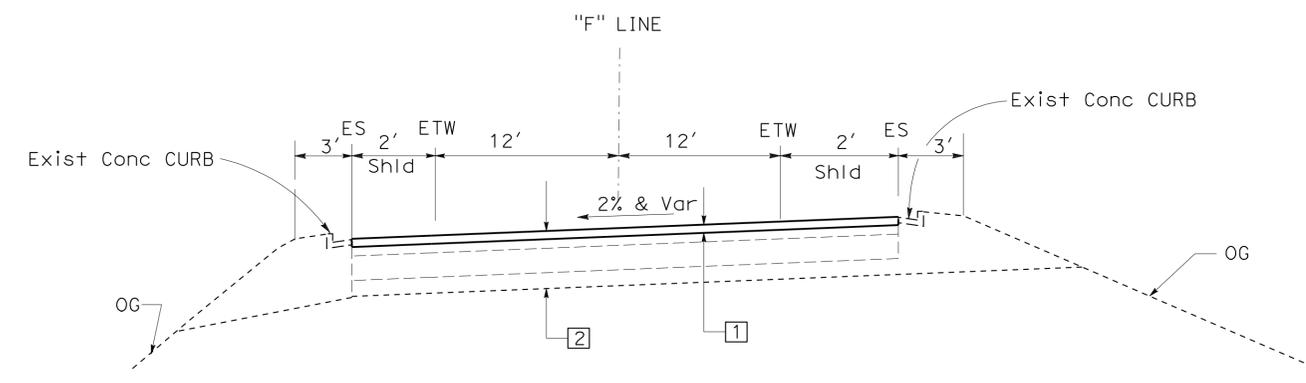


6-1-10
PLANS APPROVAL DATE

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.

ABBREVIATION:

- RHMA-G RUBBERIZED HOT MIX ASPHALT (GAP GRADED)
- RHMA-O RUBBERIZED HOT MIX ASPHALT (OPEN GRADED)
- RMCTB ROAD MIXED CEMENT TREATED BASE



EB 22 TO NB 605
Sta 43+88.20 TO 44+08.20
Sta 48+10.93 TO 48+30.93

TYPICAL STRUCTURAL SECTIONS

- 1 COLD PLANE 0.20' AC PAVEMENT,
0.08' RHMA-O
0.12' RHMA-G

- 2 Exist CONNECTOR
0.33' AC
0.67' RMCTB
0.33' AB
0.67' AS

TYPICAL CROSS SECTIONS

NO SCALE

X-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN DIVISION
FUNCTIONAL SUPERVISOR: MATTHEW Q. CUGINI
CALCULATED/DESIGNED BY: CHECKED BY:
REVISOR: V. RAGLAND
SL/VR: 01/30/08
REVISOR: DATE: 01/30/08

NOTE:

FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

LEGEND

- TYPE G ONE-WAY CLEAR RETROREFLECTIVE MARKER
- TYPE A WHITE NON-REFLECTIVE MARKER
- ▬ 4 in BLACK PAINT TRAFFIC STRIPE (2-COAT)
- ▭ 4 in WHITE THERMOPLASTIC TRAFFIC STRIPE
- ➔ DIRECTION OF TRAFFIC

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22	RO.4	3	16

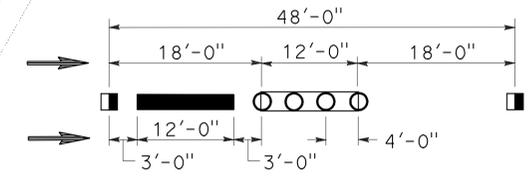
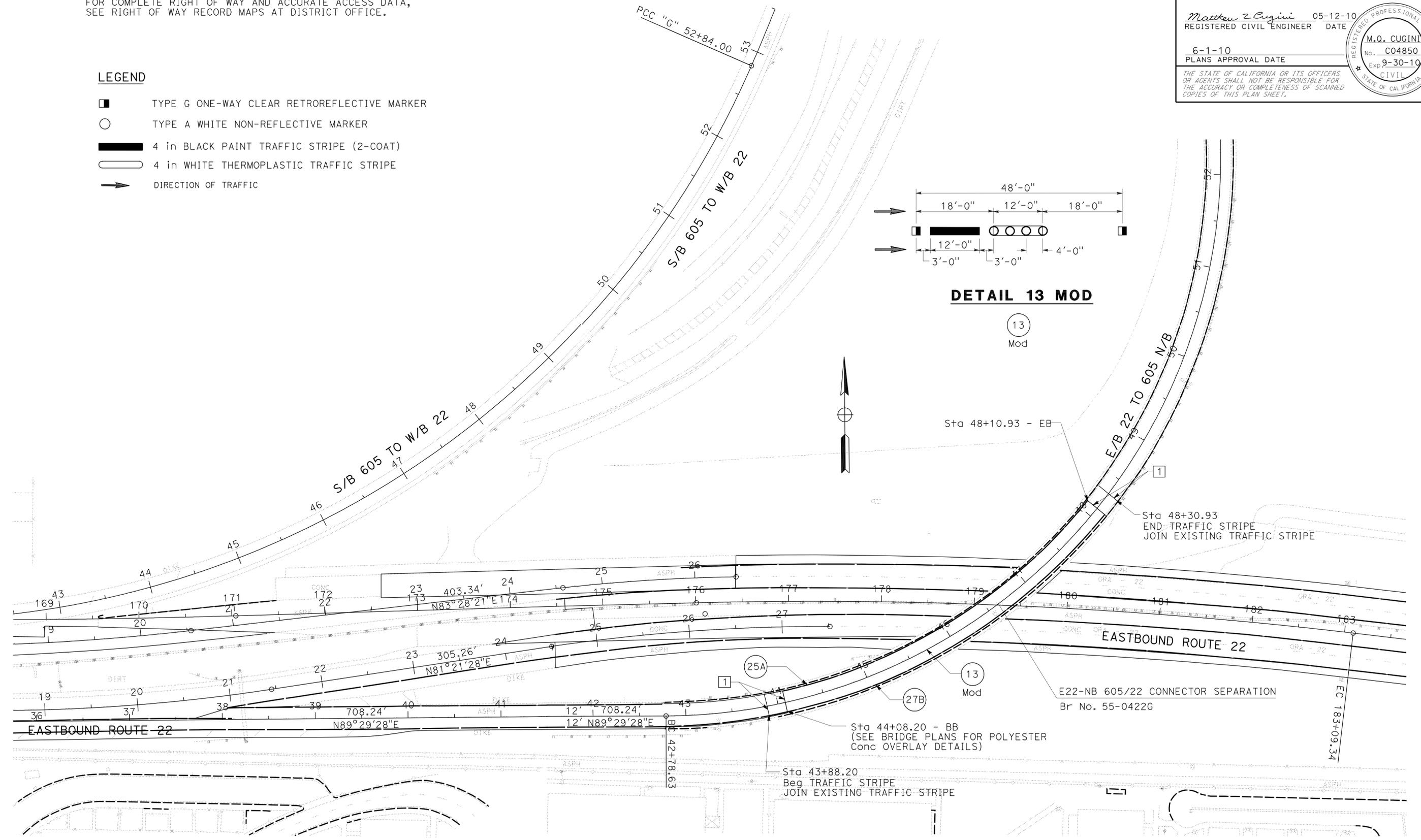
Matthew Z Cugini 05-12-10
 REGISTERED CIVIL ENGINEER DATE

6-1-10
 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
M.Q. CUGINI
 No. C04850
 Exp. 9-30-10
 CIVIL
 STATE OF CALIFORNIA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN DIVISION
 MATTHEW Q. CUGINI
 V. RAGLAND
 SL/VR
 01/30/08
 REVISIONS: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100



DETAIL 13 MOD

13
Mod

LAYOUT
SCALE: 1" = 50' **L-1**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Oran	22	RO.4	4	16

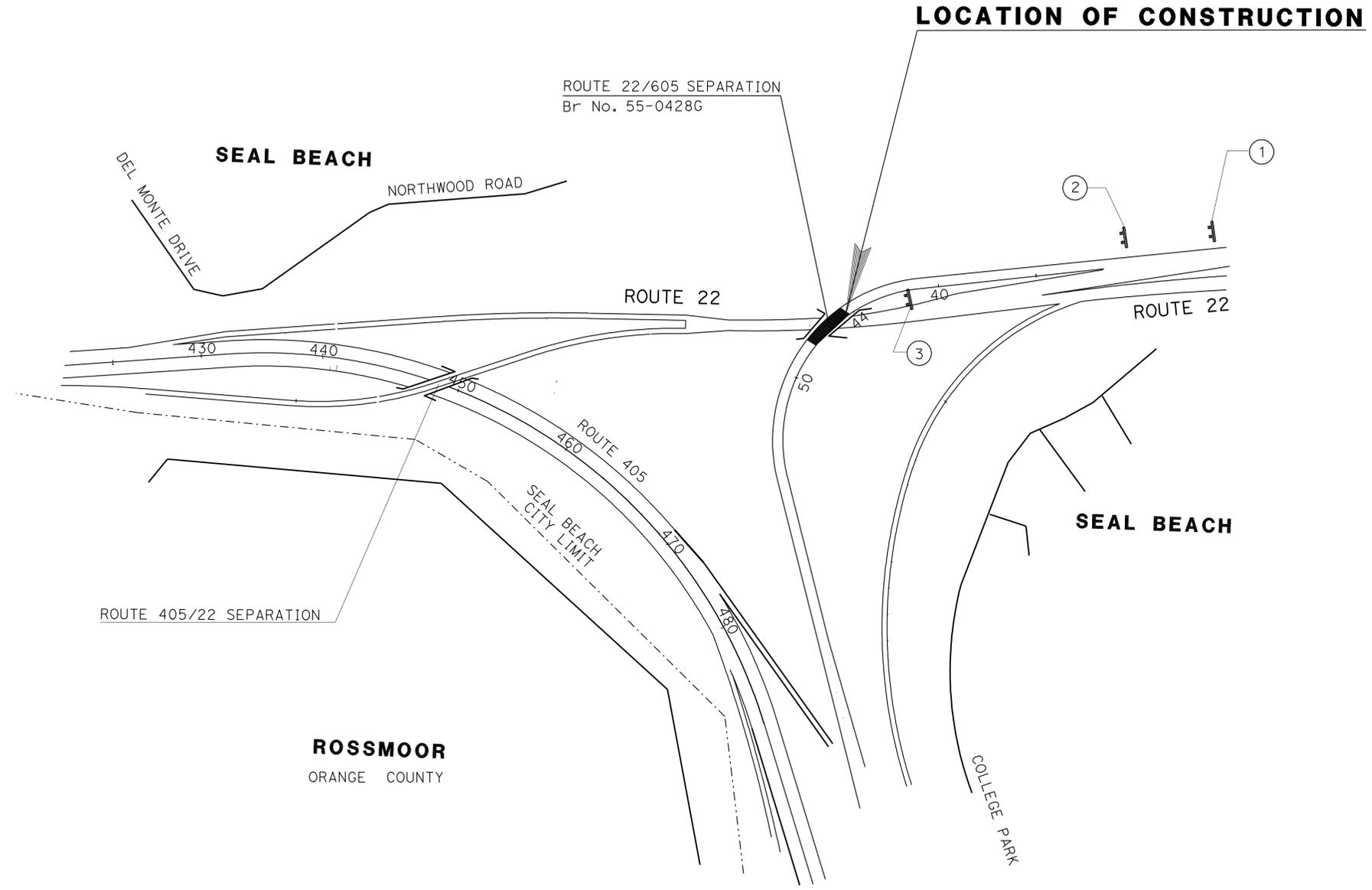
Matthew Z. Cugini 05-12-10
 REGISTERED CIVIL ENGINEER DATE

6-1-10
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 M.Q. CUGINI
 No. C04850
 Exp. 9-30-10
 CIVIL
 STATE OF CALIFORNIA

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.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN DIVISION
 FUNCTIONAL SUPERVISOR: MATTHEW Q. CUGINI
 V. RAGLAND
 SL/VR: 01/30/08
 REVISOR: V. RAGLAND
 CHECKED BY: V. RAGLAND
 DESIGNED BY: V. RAGLAND
 DATE REVISOR: 01/30/08
 DATE CHECKED: 01/30/08
 DATE DESIGNED: 01/30/08



STATIONARY MOUNTED CONSTRUCTION AREA SIGNS						
SIGN NUMBER	SIGN CODE	No. OF SIGNS	PANEL SIZE	WOOD POST		SIGN MESSAGE
				No. POST	POST SIZE	
①	C40(CA)	1	102" x 44"	2	6" x 6"	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES
②	W20-1	1	48" x 48"	2	4" x 6"	ROAD CONSTRUCTION AHEAD
③	G20-2	1	48" x 24"	2	4" x 6"	END CONSTRUCTION

CONSTRUCTION AREA SIGNS

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGNS ONLY

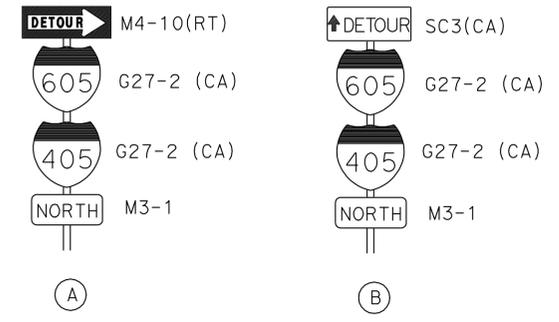
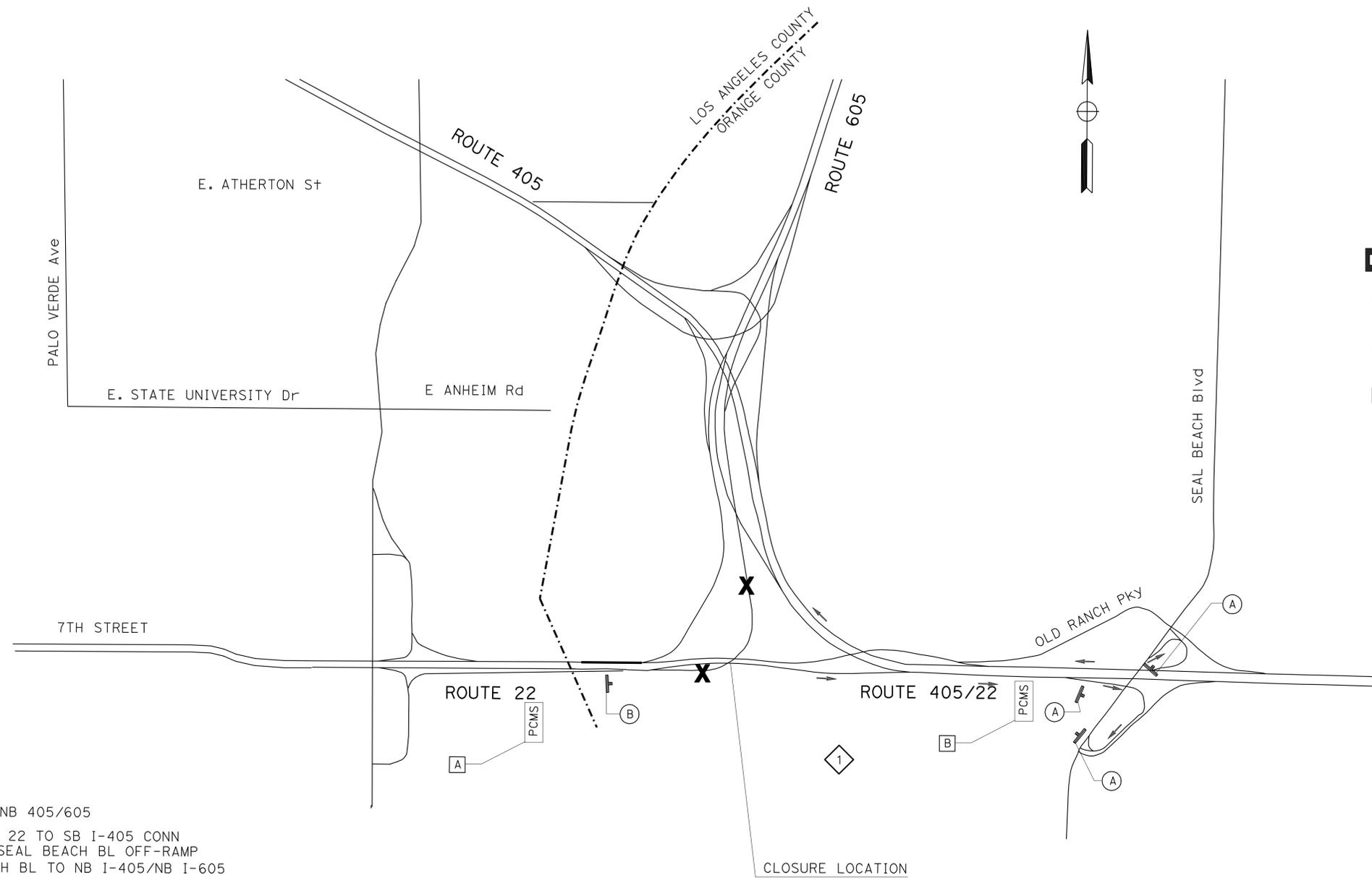
NO SCALE

CS-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Oran	22	RO.4	5	16
Matthew Z. Cugini			05-12-10		
REGISTERED CIVIL ENGINEER			DATE		
6-1-10			PLANS APPROVAL DATE		
M.Q. CUGINI			No. C04850	Exp. 9-30-10	
			CIVIL		
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.					

NOTE:

LOCATIONS FOR DETOUR SIGNS ARE APPROXIMATE.
EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.



EB 22 TO NB 605/405
CONNECTOR CLOSED
USE SEAL BEACH BL

PCMS-1
A

DETOUR AHEAD

PCMS-2
B

- 1 EB SR 22 TO NB 405/605
- EB 7th St/SR 22 TO SB I-405 CONN
- SB I-405 TO SEAL BEACH BL OFF-RAMP
- NB SEAL BEACH BL TO NB I-405/NB I-605

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN SYMBOL	SIGN CODE	PANEL SIZE	No. OF SIGNS	No. OF POST AND SIZE
A	M4-10(RT)	36" x 12"	3	1 - 6" x 6"
	G27-2	42" x 36"		
	M3-1	30" x 15"		
B	SC3(CA)	48" x 48"	1	1 - 6" x 6"
	G27-2	42" x 36"		
	M3-1	30" x 15"		

**CONSTRUCTION AREA SIGNS
(DETOUR ROUTE)
EB SR 22 TO NB 405/605**

THIS PLAN ACCURATE FOR DETOUR WORK ONLY

NO SCALE

CS-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN DIVISION
FUNCTIONAL SUPERVISOR: MATTHEW Q. CUGINI
V. RAGLAND
REVISOR: SL/VR
DATE REVISION: 01/30/08

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22	RO.4	6	16

Matthew Q. Cugini 05-12-10
 REGISTERED CIVIL ENGINEER DATE

6-1-10
 PLANS APPROVAL DATE

M.Q. CUGINI
 No. C04850
 Exp. 9-30-10
 CIVIL ENGINEER
 STATE OF CALIFORNIA

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.

ROADWAY QUANTITIES

SHEET No.	STATION	RUBBERIZED HMA-O (OPEN GRADED)	RUBBERIZED HMA-G (GAP GRADED)	COLD PLANE ASPHALT CONCRETE PAVEMENT
		TON	TON	SQYD
L-1	43+88.20 TO 44+08.20	3.1	4.7	57.8
	48+10.93 TO 48+30.93	3.1	4.7	57.8
	TOTAL	6.2	9.4	115.6

PAVEMENT DELINEATION QUANTITIES

SHEET No.	STATION	THERMOPLASTIC TRAFFIC STRIPE		PAINT TRAFFIC STRIPE (2-COAT)	PAVEMENT MARKER		REMOVE		
		DETAIL 25A 4" SOLID YELLOW	DETAIL 27B 4" SOLID WHITE	DETAIL 13 MOD 4" WHITE BROKEN (36-12)	DETAIL 13 MOD 4" BLACK BROKEN (36-12)	NON-REFLECTIVE TYPE A WHITE	RETRO-REFLECTIVE TYPE H	THERMOPLASTIC TRAFFIC STRIPE	REMOVE PAVEMENT MARKERS
		LF	LF	LF	LF	EA	EA	LF	EA
L-1	"C" 43+88.199 TO 48+30.932	442.7	442.7	110.7	110.7	27	36	1106.8	54
	SUBTOTAL	442.7	442.7	110.7	110.7	27	36	1106.8	54
	TOTAL	885.4		110.7	110.7	27	36	1106.8	54

WATER POLLUTION CONTROL

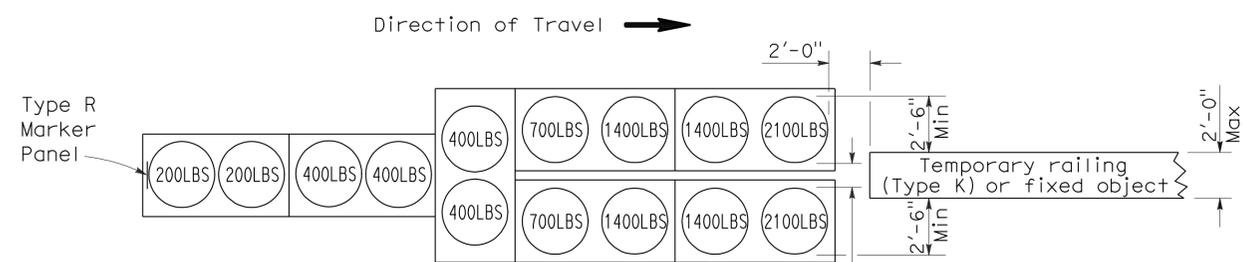
STATION	TEMPORARY DRAINAGE INLET PROTECTION
	EA
43+88.20 TO 48+30.93	5
TOTAL	5

SUMMARY OF QUANTITIES

Q-1

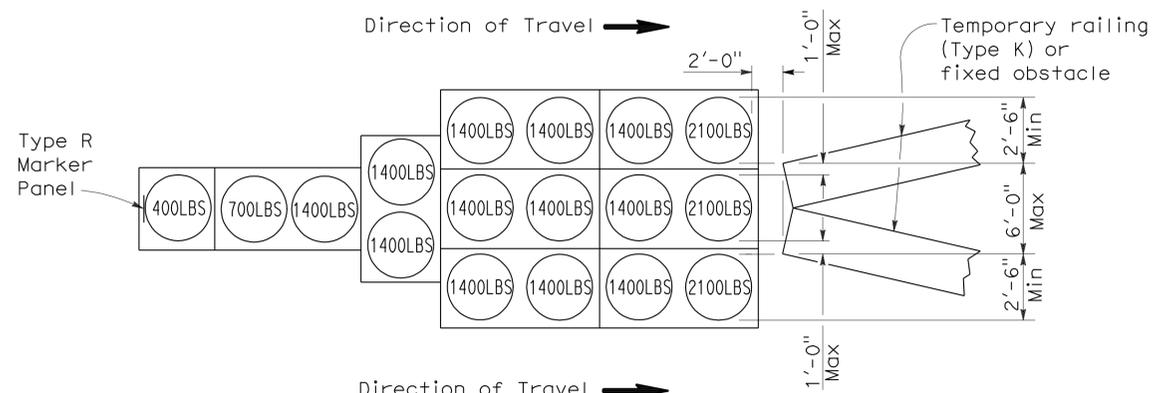
To accompany plans dated 6-1-10

2006 REVISED STANDARD PLAN RSP T1A



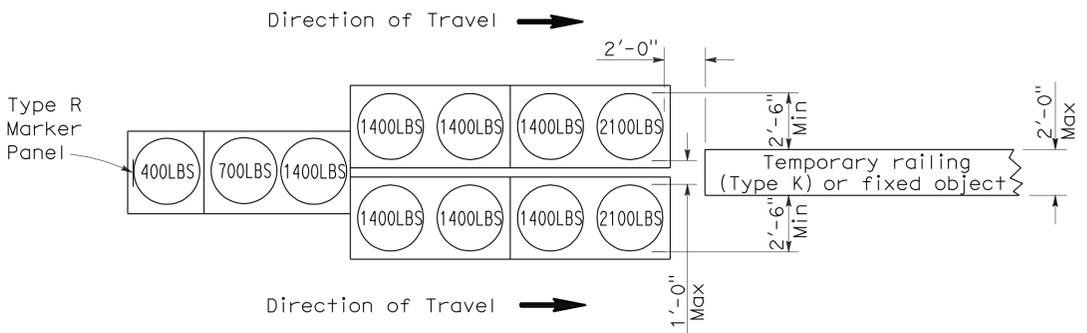
ARRAY 'TU14'

Approach speed 45 mph or more



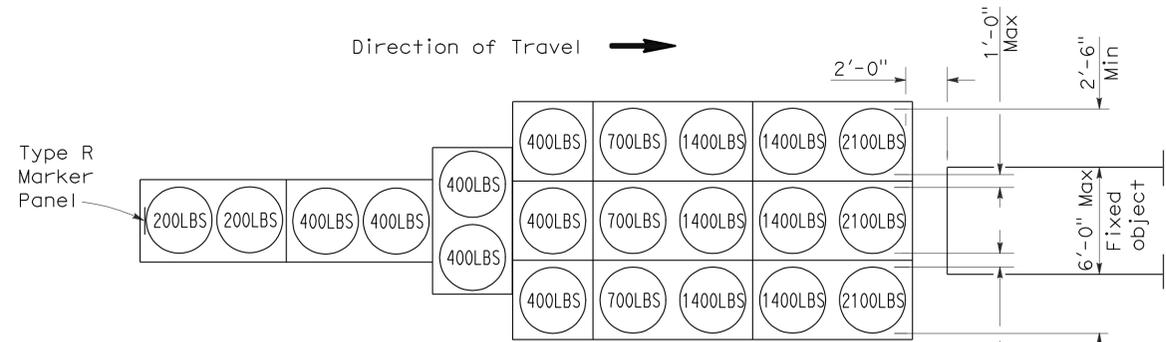
ARRAY 'TU17'

Approach speed less than 45 mph



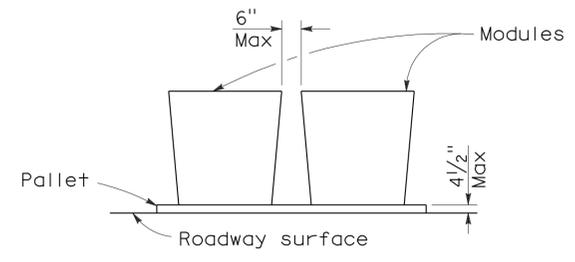
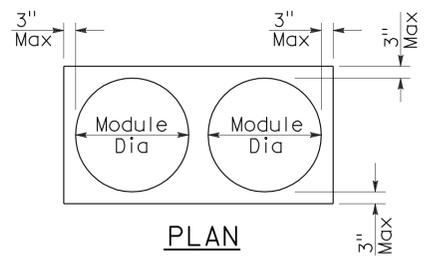
ARRAY 'TU11'

Approach speed less than 45 mph



ARRAY 'TU21'

Approach speed 45 mph or more



CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

1. (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
2. All sand weights are nominal.
3. Temporary crash cushion arrays shall not encroach on the traveled way.
4. Place the top of Type R marker panel 1" below the module lid.
5. Refer to Standard Plan A73B for marker details.
6. Approach speeds indicated conform to NCHRP 350 Report criteria.
7. Use of pallets is optional.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**TEMPORARY CRASH CUSHION,
SAND FILLED
(UNIDIRECTIONAL)**

NO SCALE

RSP T1A DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T1A
DATED MAY 1, 2006 - PAGE 211 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T1A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	22	RO.4	8	16

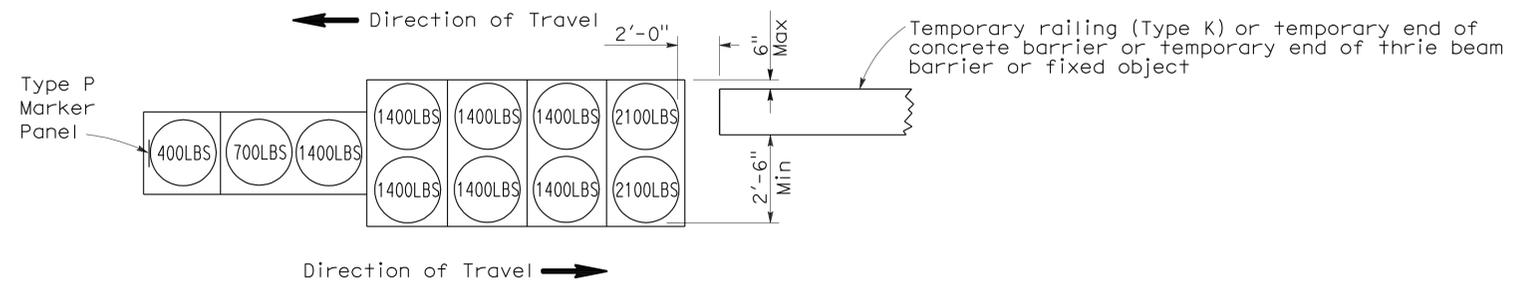
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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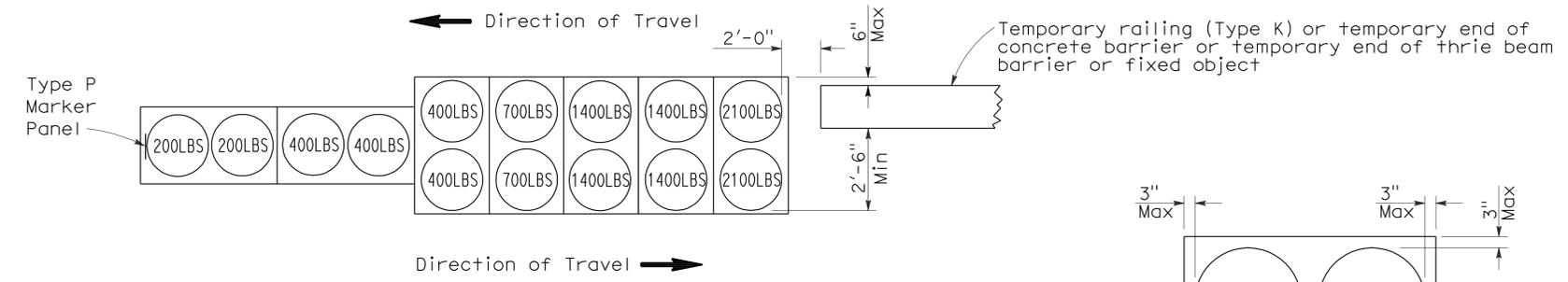
REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

To accompany plans dated 6-1-10



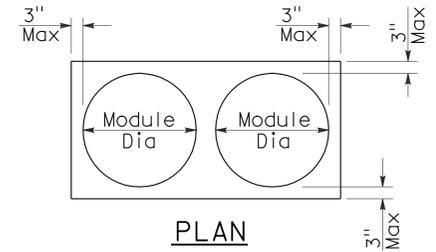
ARRAY 'TB11'

Approach speed less than 45 mph

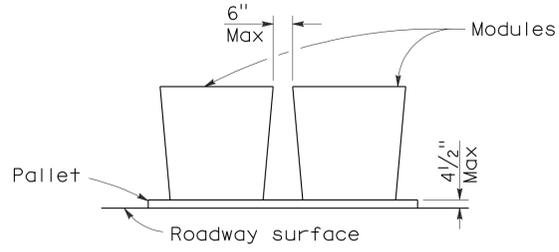


ARRAY 'TB14'

Approach speed 45 mph or more



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

1. (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
2. All sand weights are nominal.
3. Temporary crash cushion arrays shall not encroach on the traveled way.
4. Place the Type P marker panel so that the bottom of the panel rests upon the pallet.
5. Refer to Standard Plan A73B for marker details.
6. Approach speeds indicated conform to NCHRP 350 Report criteria.
7. Use of pallets is optional.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**TEMPORARY CRASH CUSHION,
SAND FILLED
(BIDIRECTIONAL)**

NO SCALE

RSP T1B DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T1B
DATED MAY 1, 2006 - PAGE 212 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T1B

2006 REVISED STANDARD PLAN RSP T1B

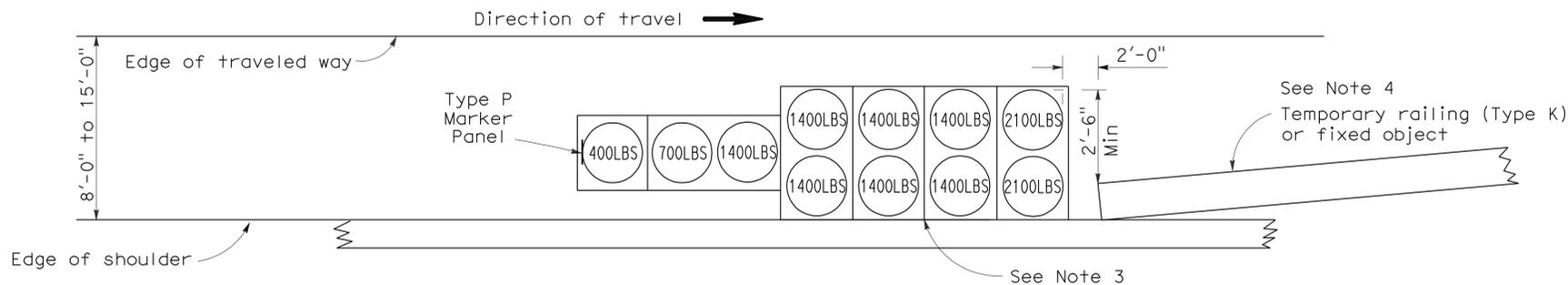
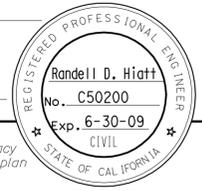
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	22	R0.4	9	16

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

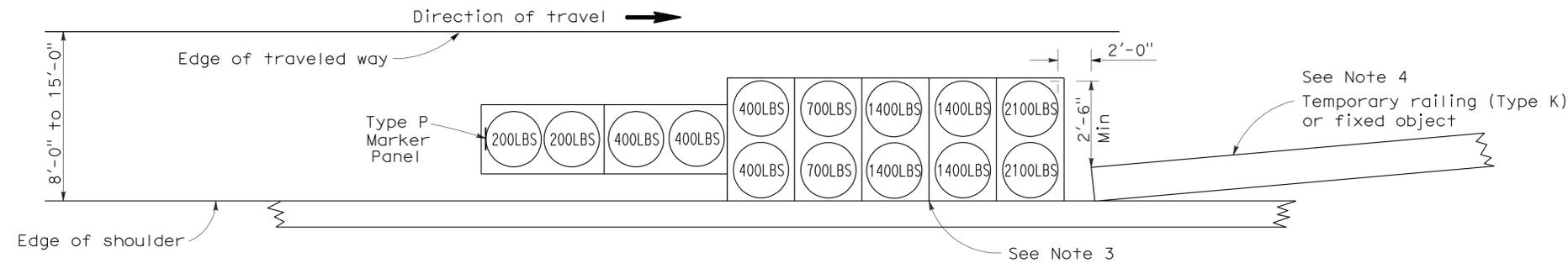
June 6, 2008
PLANS APPROVAL DATE

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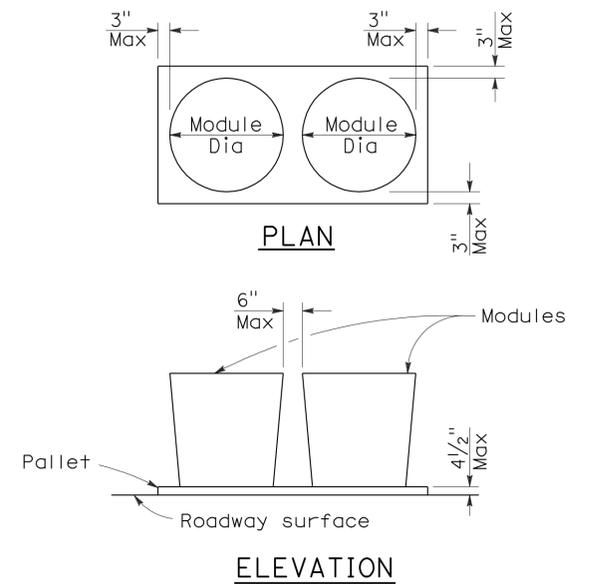
To accompany plans dated 6-1-10



ARRAY 'TS11'
Approach speed less than 45 mph
See Note 9



ARRAY 'TS14'
Approach speed 45 mph or more
See Note 9



CRASH CUSHION PALLET DETAIL
See Note 11

NOTES:

- (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
- All sand weights are nominal.
- The temporary crash cushion arrays shown on this plan shall be used only in locations where there will be traffic on one side of the temporary crash cushion array.
- If the fixed object or approach end of the temporary railing is less than 15'-0" from the edge of traveled way, a temporary crash cushion is required in a construction or work zone.
- Temporary crash cushion arrays shall not encroach on the traveled way.
- Arrays for median shoulders shall conform to details shown on this plan for outside shoulders.
- Place the Type P marker panel so that the bottom of the panel rests upon the pallet and faces traffic.
- Refer to Standard Plan A73B for marker details.
- For shoulder widths less than 8'-0", appropriate approved crash cushion protection, other than sand filled modules, shall be provided at fixed objects and at approach ends of temporary railing. The specific type of crash cushion shall be as shown on the project plans or as specified in the Special Provisions, or if not shown on the project plans or specified in the Special Provisions, shall be as approved by the Engineer.
- Approach speeds indicated conform to NCHRP 350 Report criteria.
- Use of pallets is optional.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**TEMPORARY CRASH CUSHION,
SAND FILLED
(SHOULDER INSTALLATIONS)**

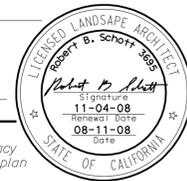
NO SCALE
RSP T2 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T2
DATED MAY 1, 2006 - PAGE 213 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T2

2006 REVISED STANDARD PLAN RSP T2

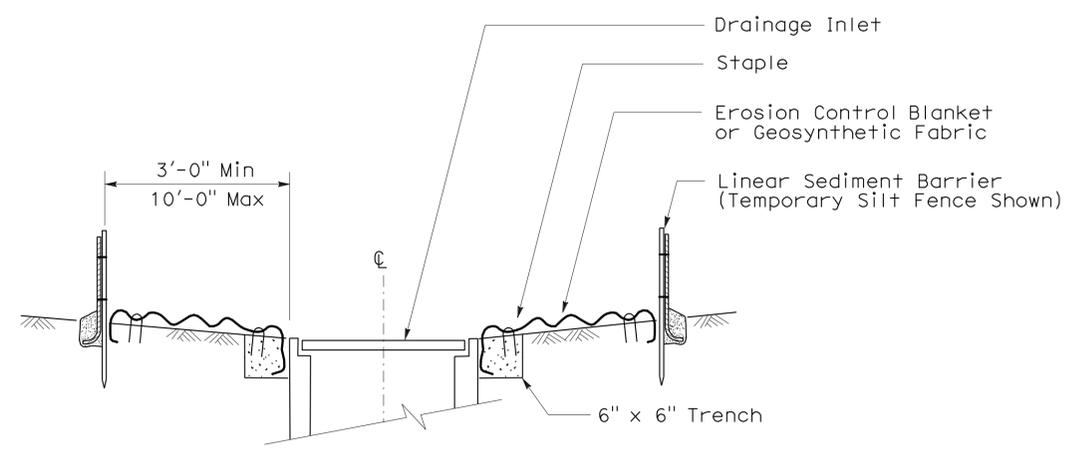
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	22	RO.4	10	16

Robert B. Schott
 LICENSED LANDSCAPE ARCHITECT
 August 15, 2008
 PLANS Approval DATE
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

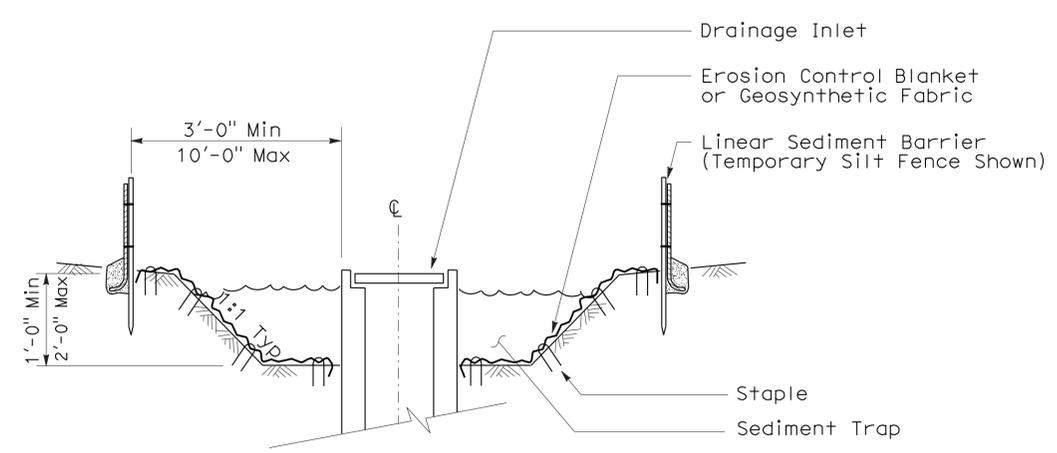


To accompany plans dated 6-1-10

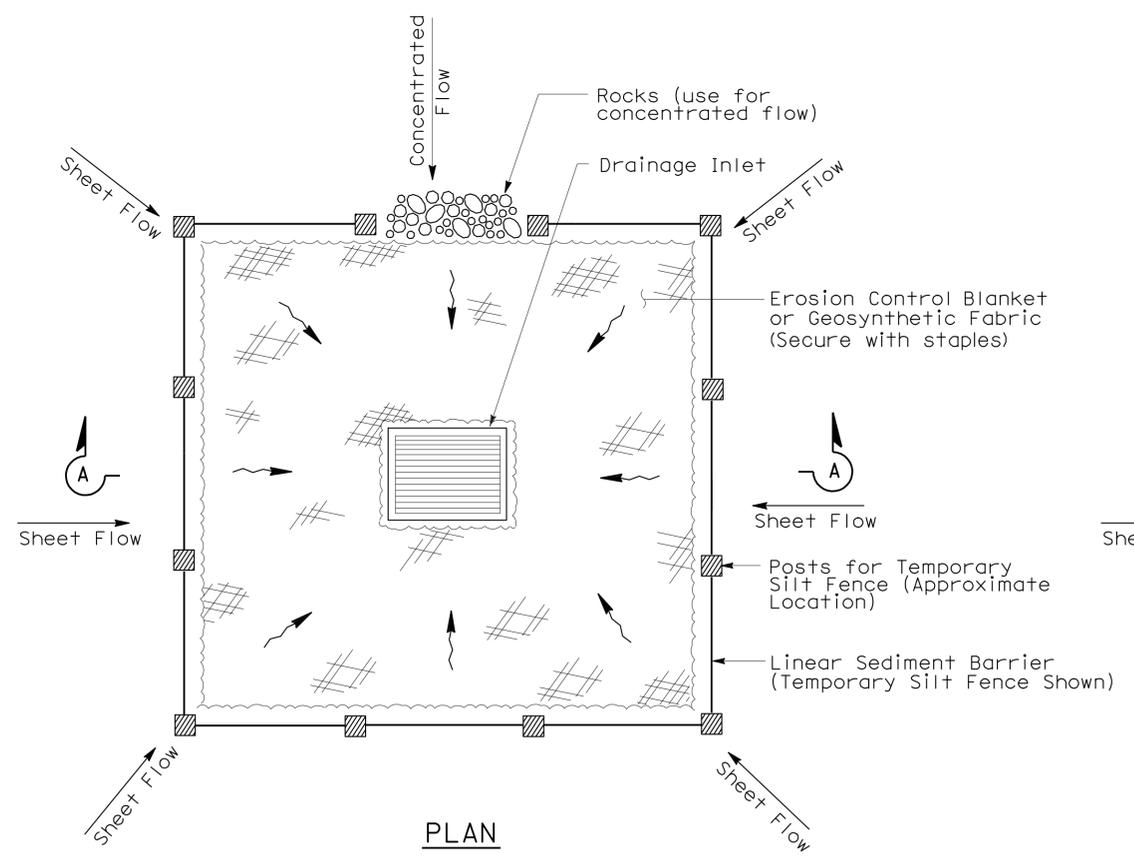
- NOTES:**
- See Standard Plan T51 for Temporary Silt Fence.
 - Dimensions may vary to fit field conditions.



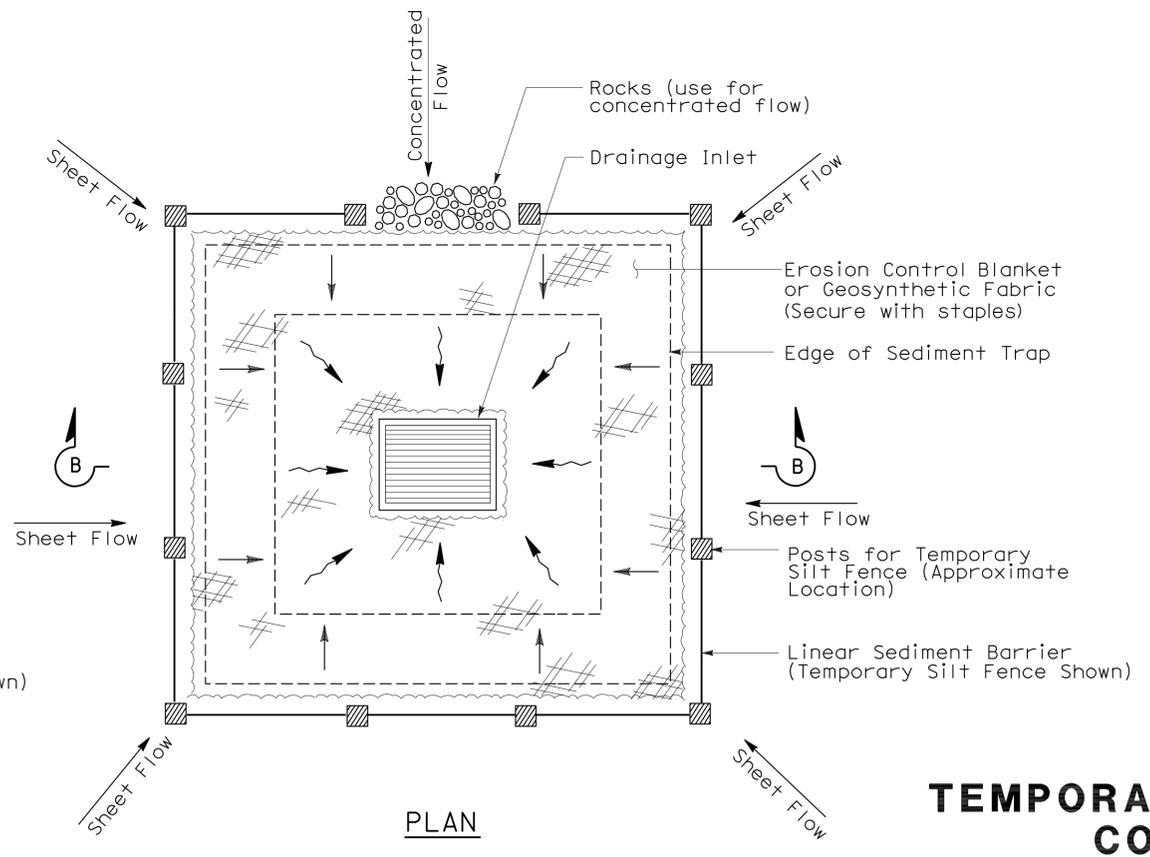
SECTION A-A



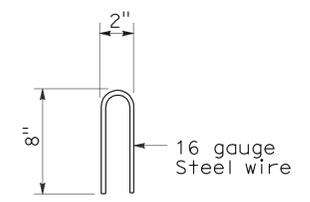
SECTION B-B



TEMPORARY DRAINAGE INLET PROTECTION (TYPE 1)



TEMPORARY DRAINAGE INLET PROTECTION (TYPE 2) (EXCAVATED SEDIMENT TRAP)

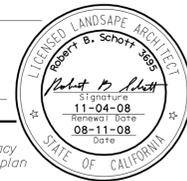


STAPLE DETAIL

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
TEMPORARY WATER POLLUTION CONTROL DETAILS
(TEMPORARY DRAINAGE INLET PROTECTION)
 NO SCALE

NSP T61 DATED AUGUST 15, 2008 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

2006 NEW STANDARD PLAN NSP T61

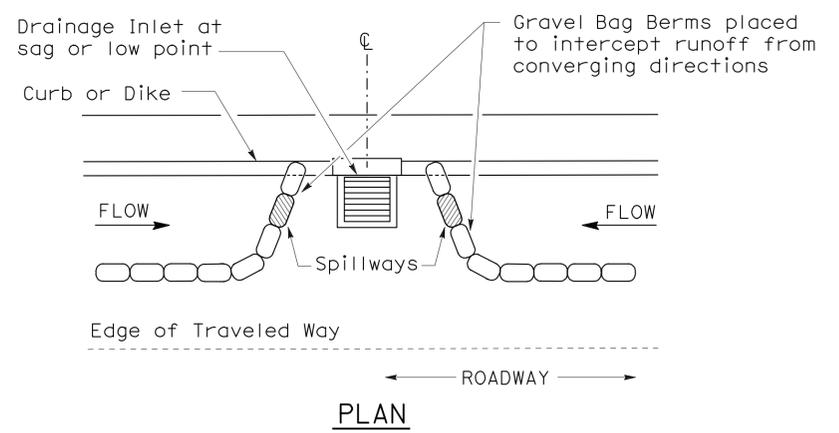


To accompany plans dated 6-1-10

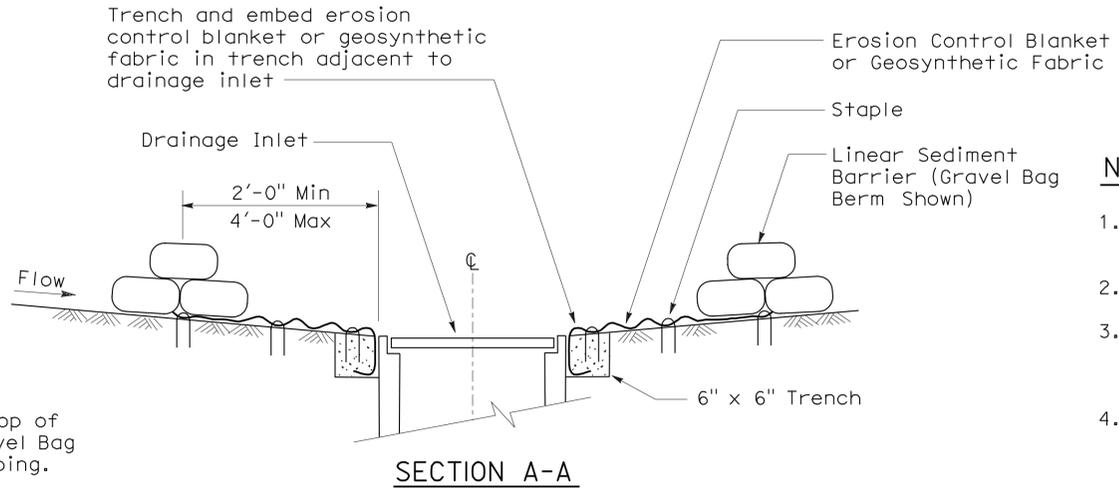
GRAVEL BAG BERM (TYPE 3A) SPACING TABLE

SLOPE OF ROADWAY (PERCENT)	1 to 3.9	4 to 5.9	6 to 7.9	8 to 10	10+
INTERVAL BETWEEN BERM	100'	75'	50'	25'	12'

For slope of less than 1%, install barriers only if erosion/sediment is prevalent



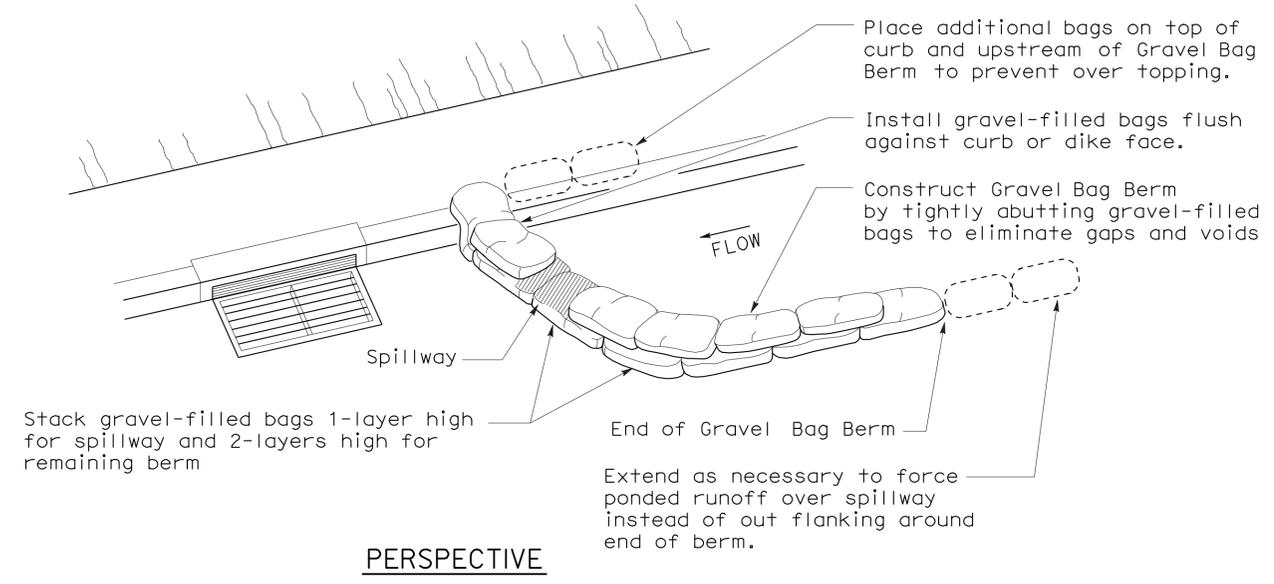
PLAN
CONFIGURATION FOR SAG POINT INLET (GRAVEL BAG BERM)



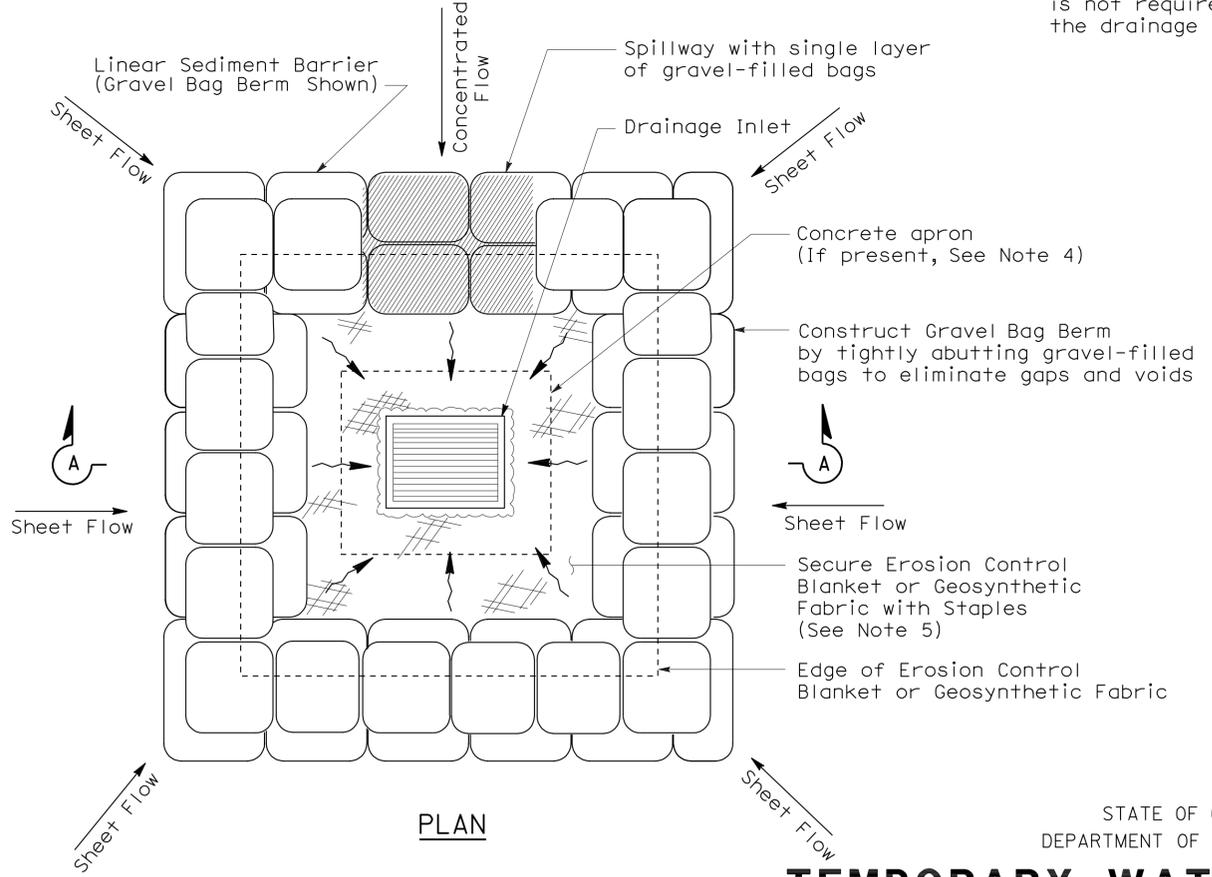
SECTION A-A

NOTES:

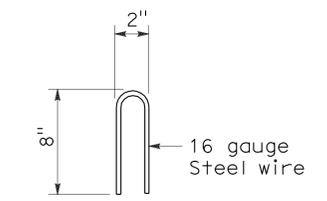
1. Place safety cones adjacent to drainage inlet protection.
2. Dimensions may vary to fit field conditions.
3. Install a minimum of 3 gravel bag berms upstream of each drainage inlet to be protected.
4. Position erosion control blanket or geosynthetic fabric at edge of concrete apron and secure in trench.
5. Erosion control blanket or geosynthetic fabric is not required if the area adjacent to the drainage inlet is vegetated or paved.



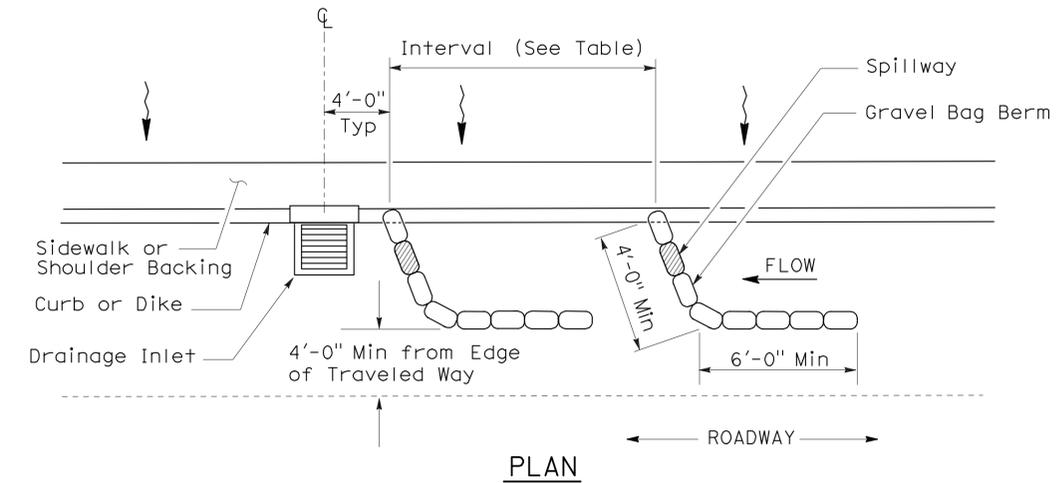
PERSPECTIVE



PLAN
TEMPORARY DRAINAGE INLET PROTECTION (TYPE 3B)



STAPLE DETAIL



PLAN
TEMPORARY DRAINAGE INLET PROTECTION (TYPE 3A) (GRAVEL BAG BERM)

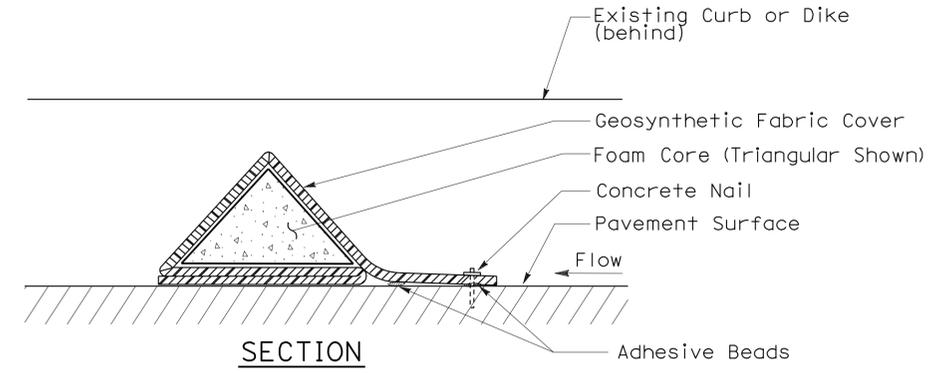
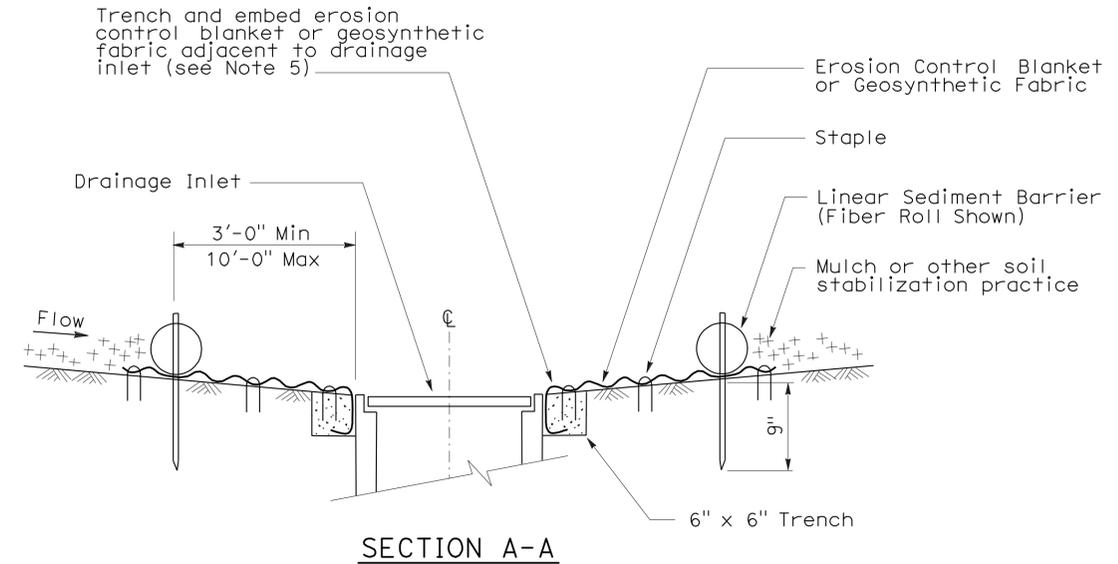
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY DRAINAGE INLET PROTECTION)

NO SCALE
NSP T62 DATED AUGUST 15, 2008 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

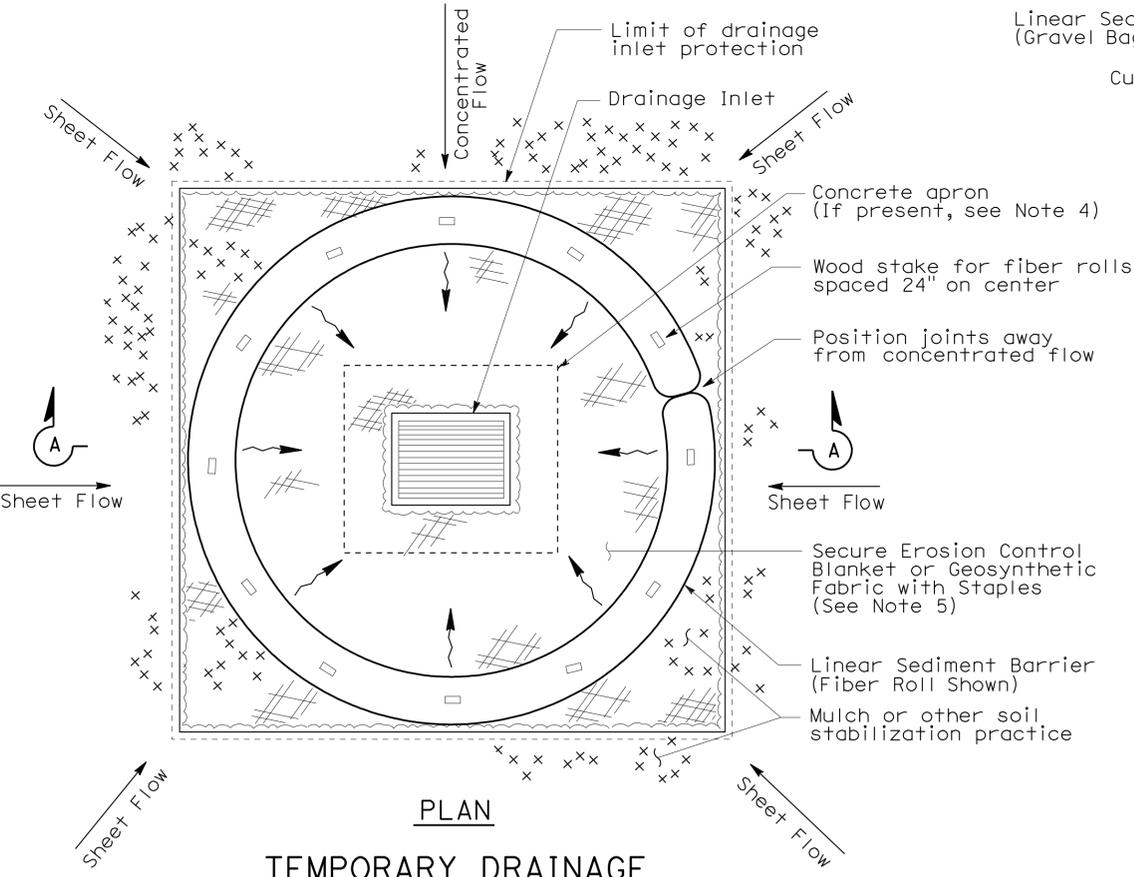
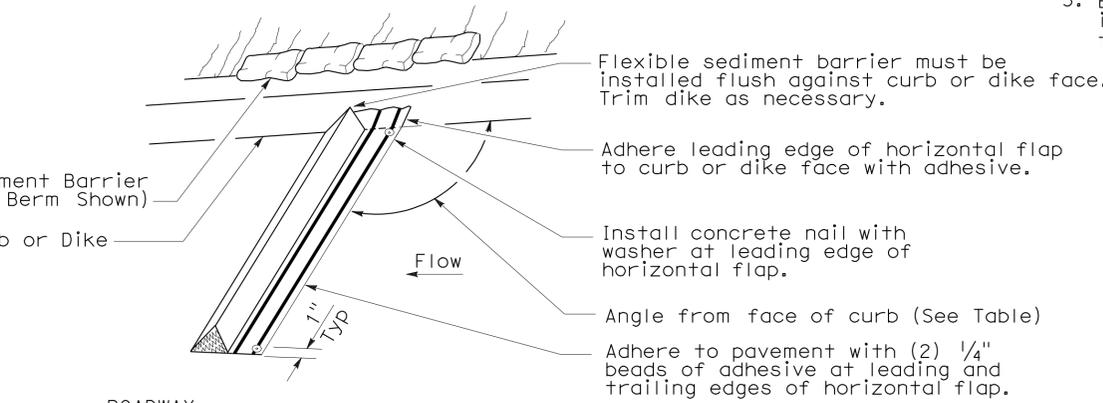
2006 NEW STANDARD PLAN NSP T62

FLEXIBLE SEDIMENT BARRIER SPACING TABLE

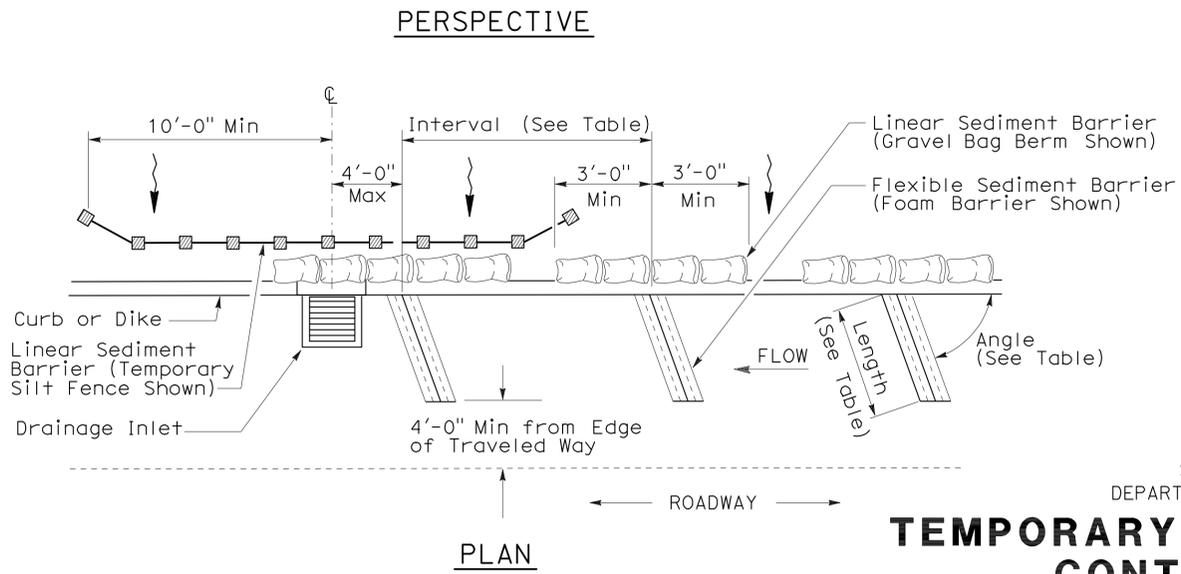
SLOPE OF ROADWAY (PERCENT)	0 to 0.9	1 to 1.9	2 to 2.9	3 to 4	5+
INTERVAL BETWEEN BARRIERS	50'	35'	30'	25'	20'
ANGLE FROM FACE OF CURB	70°	70°	70°	45°	45°
SUGGESTED BARRIER LENGTH	6'	6'	6'	6'	6'



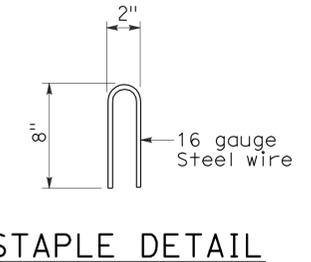
FLEXIBLE SEDIMENT BARRIER DETAIL (FOAM BARRIER SHOWN)



TEMPORARY DRAINAGE INLET PROTECTION (TYPE 4A)



TEMPORARY DRAINAGE INLET PROTECTION (TYPE 4B) FLEXIBLE SEDIMENT BARRIER



- NOTES:**
1. See Standard Plan T51 for Temporary Silt Fence.
 2. Dimensions may vary to fit field conditions.
 3. Install a minimum of 3 flexible sediment barriers upstream of each drainage inlet to be protected.
 4. Position erosion control blanket or geosynthetic fabric at edge of concrete apron and secure in trench.
 5. Erosion control blanket or geosynthetic fabric is not required if the area adjacent to the drainage inlet is vegetated.

TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY DRAINAGE INLET PROTECTION)

NO SCALE
 NSP T63 DATED AUGUST 15, 2008 SUPPLEMENTS
 THE STANDARD PLANS BOOK DATED MAY 2006.

2006 NEW STANDARD PLAN NSP T63

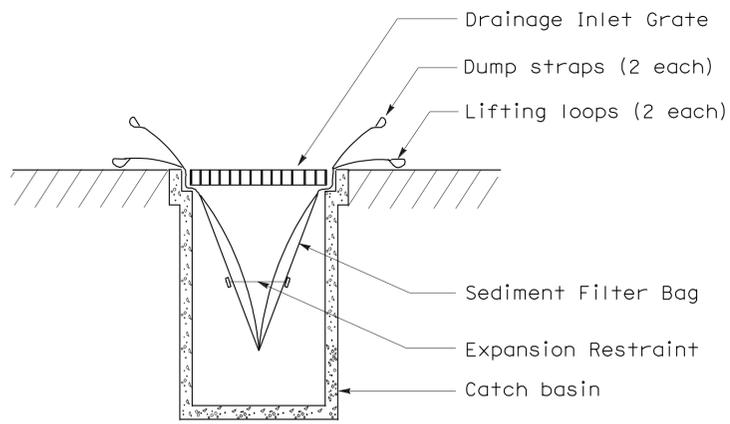
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	22	RO.4	13	16

Robert B. Schott
 LICENSED LANDSCAPE ARCHITECT

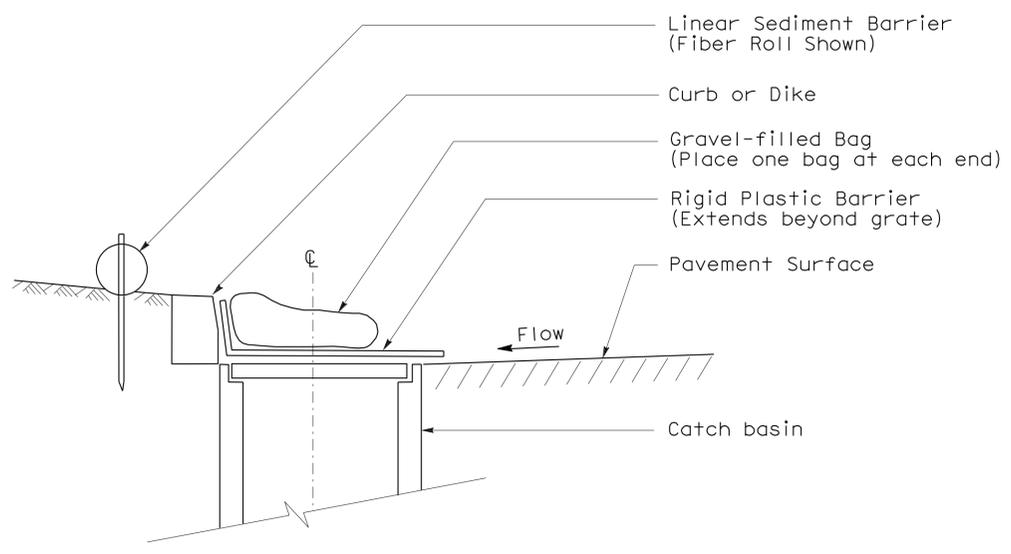
August 15, 2008
 PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

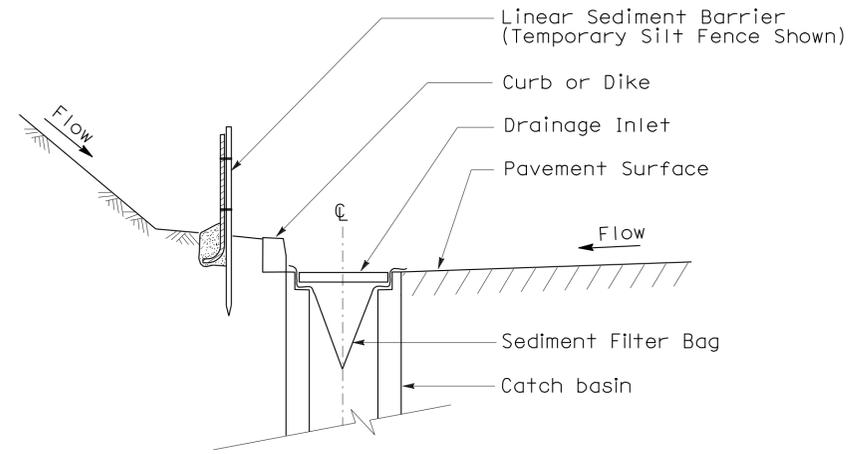
To accompany plans dated 6-1-10



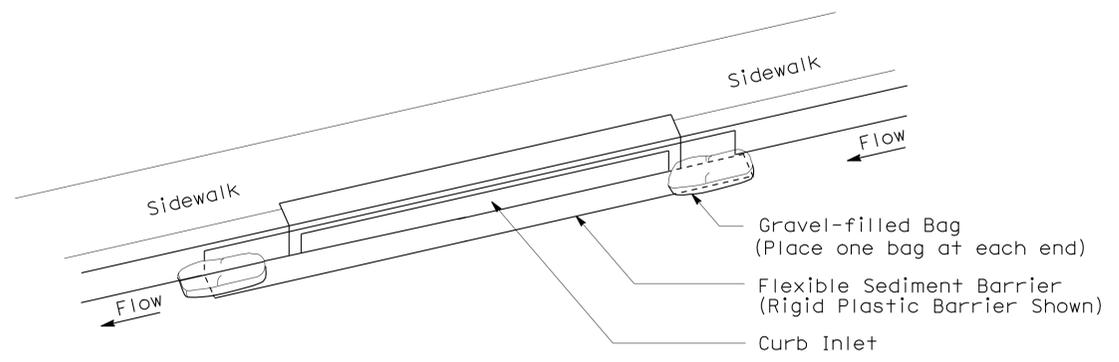
SECTION B-B
SEDIMENT FILTER BAG DETAIL



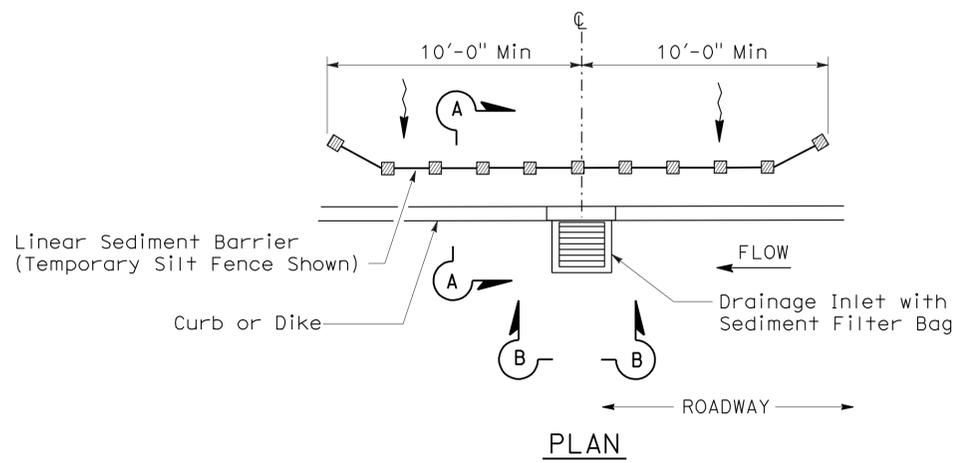
SECTION
TEMPORARY DRAINAGE INLET PROTECTION (TYPE 6A)
(CATCH BASIN WITH GRATE)



SECTION A-A



PERSPECTIVE
TEMPORARY DRAINAGE INLET PROTECTION (TYPE 6B)
(CURB INLET WITHOUT GRATE)



PLAN
TEMPORARY DRAINAGE INLET PROTECTION (TYPE 5)
(SEDIMENT FILTER BAG)

- NOTES:**
1. See Standard Plan T51 for Temporary Silt Fence.
 2. Dimensions may vary to fit field conditions.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

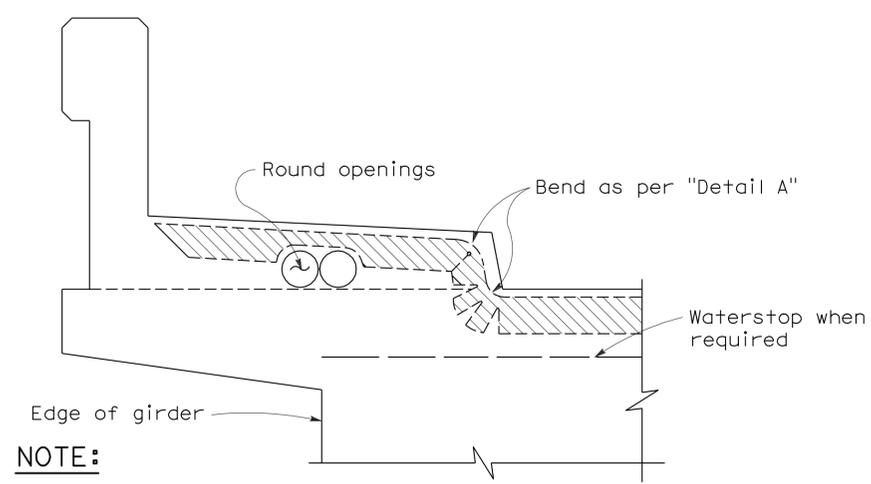
TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY DRAINAGE INLET PROTECTION)

NO SCALE

NSP T64 DATED AUGUST 15, 2008 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

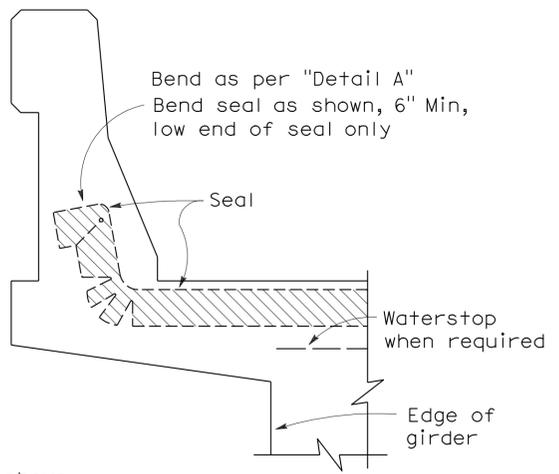
NEW STANDARD PLAN NSP T64

2006 NEW STANDARD PLAN NSP T64

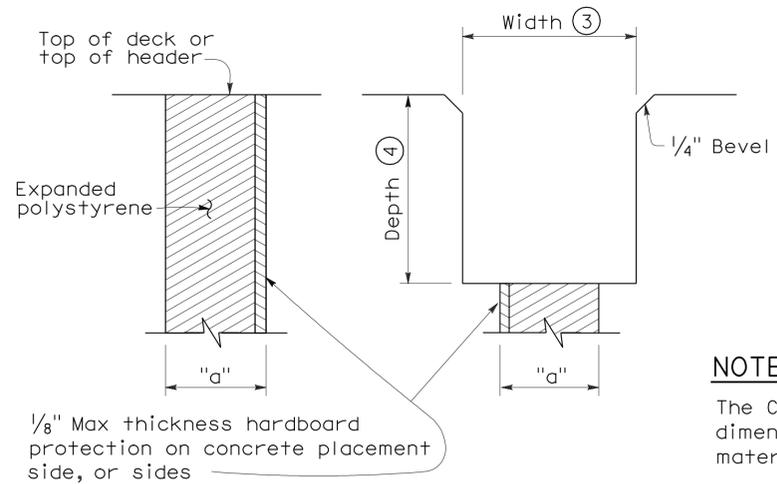


NOTE:
 Type "B" seal shown. Type "A" seals to conform to the general path of seal shown, cuts for bending not required. Bend Type "A" seals 3" up into curb or barrier rail on only the low end of the seal.

CONCRETE BARRIER AND SIDEWALK



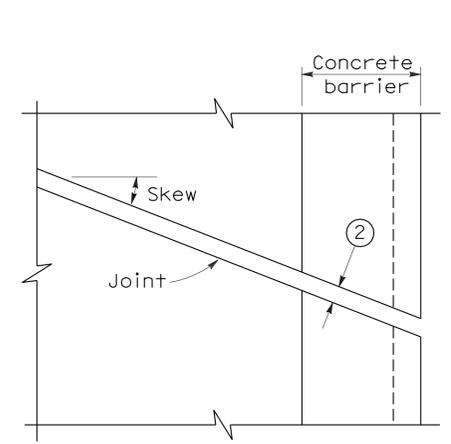
CONCRETE BARRIER



FORMING DETAIL SAWCUT DETAIL

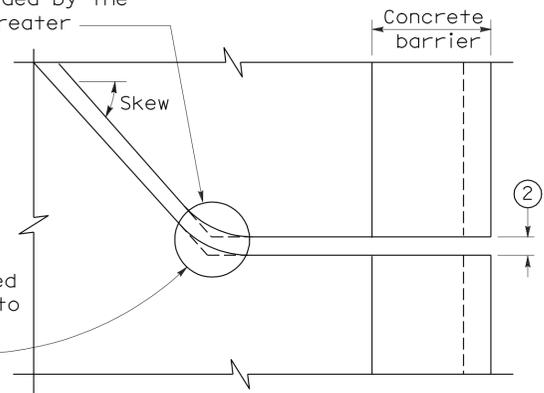
NOTE:
 The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

JOINT SEALS DETAILS



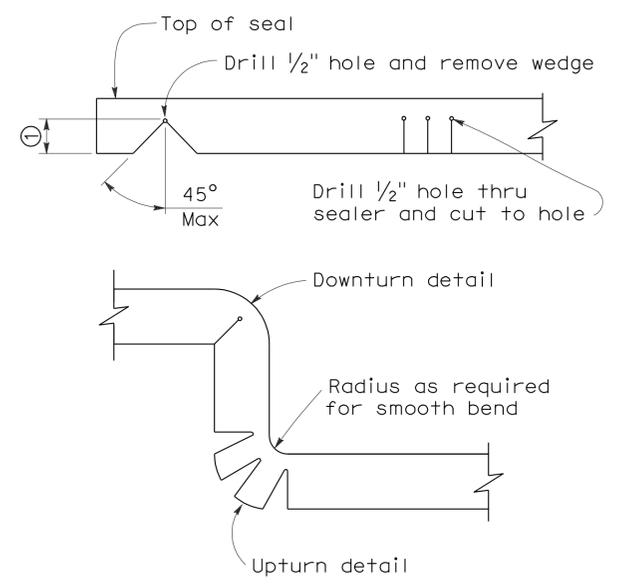
PLAN OF JOINT (SKEW ≤ 20°)

Min ϕ radius to be 4 times uncompressed width of seal or as recommended by the manufacturer, whichever is greater



PLAN OF JOINT (SKEW > 20°)

In lieu of saw cutting, this area may be blocked out and reconstructed to match saw cutting on both sides.



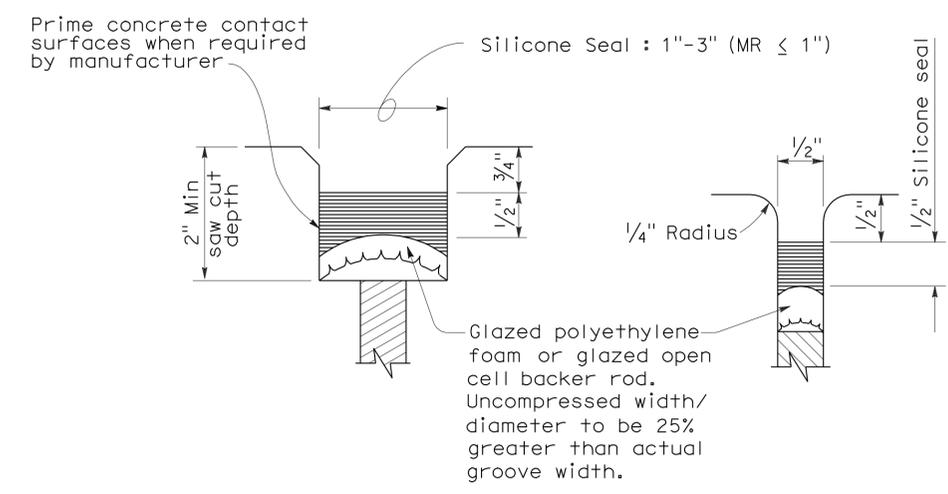
DETAIL A

- NOTES:**
- Make smooth cuts from the bottom of seal to 1 1/2" clear of top leaving at least one complete cell between the top of the cut and top of the seal. When necessary cut back of seal to clear conduit and round openings.
 - Opening in barrier to match width of sawn deck joint.
 - Sawcut groove widths shall be as ordered by the Engineer.
 - Depth of sawcut: Type A - Depth to be 2" minimum.
 Type B - Depth to be equal to or greater than the depth of seal measured along the contact surface, when compressed to minimum width position (W₂) plus dimensions shown.
 - MR (movement rating) as shown on other plan sheets.
 - Other depths must be approved by the Engineer.

DIMENSIONS "a" OF JOINT REQUIRED

Movement Rating (MR) ⑤	Bridge Type	"a" Dimension		
		Deck Concrete Placed		
		Winter	Fall-Spring	Summer
2"	All except CIP/PS	1 1/2"	1 1/4"	3/4"
	CIP/PS	1 1/4"	1"	1/2"
1 1/2"	All except CIP/PS	1 1/4"	1"	1/2"
	CIP/PS	1"	3/4"	1/2"
1"	All except CIP/PS	1"	3/4"	1/2"
	CIP/PS	3/4"	1/2"	1/2"
1/2"	All except CIP/PS	3/4"	3/4"	1/2"
	CIP/PS	1/2"	1/2"	1/2"

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
JOINT SEALS
(MAXIMUM MOVEMENT RATING = 2")
 NO SCALE

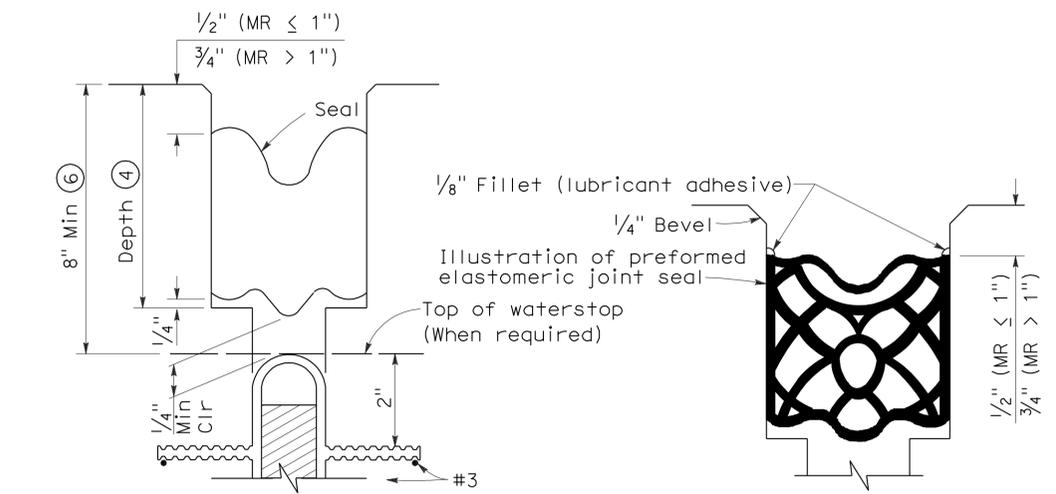


TYPE A SEAL

Movement rating : Silicone = 1" Max

TYPE AL SEAL

Longitudinal joints only



TYPE B JOINT SEAL IN MINIMUM WIDTH POSITION (W₂)

TYPE B SEAL

Movement Rating ≤ 2"

RSP B6-21 DATED OCTOBER 5, 2007 SUPERSEDES STANDARD PLAN B6-21 DATED MAY 1, 2006 - PAGE 258 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP B6-21

2006 REVISED STANDARD PLAN RSP B6-21

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
12	Oran	22	R0.4	15	16

J. Estrada 4/7/10
 REGISTERED CIVIL ENGINEER DATE

6-1-10
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 No. C51473
 Exp. 6-30-2010
 CIVIL
 STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

LEGEND

- Indicates existing
- Indicates location of remove existing joint seal and place new joint seal. See "MISCELLANEOUS DETAILS" sheet
- Indicates limits of prepare existing concrete deck and place new 3/4" depth polyester concrete overlay. See "MISCELLANEOUS DETAILS" sheet
- STANDARD PLAN SHEET NO.
- DETAIL NO.

INDEX TO PLANS

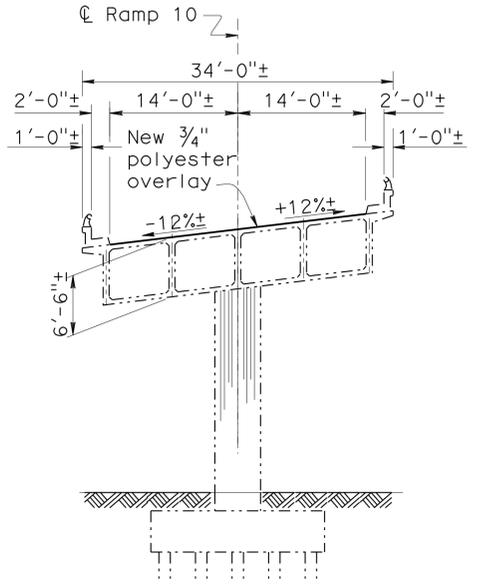
SHEET NO.	TITLE
1.	GENERAL PLAN
2.	"MISCELLANEOUS DETAILS"

STANDARD PLANS DATED MAY 2006

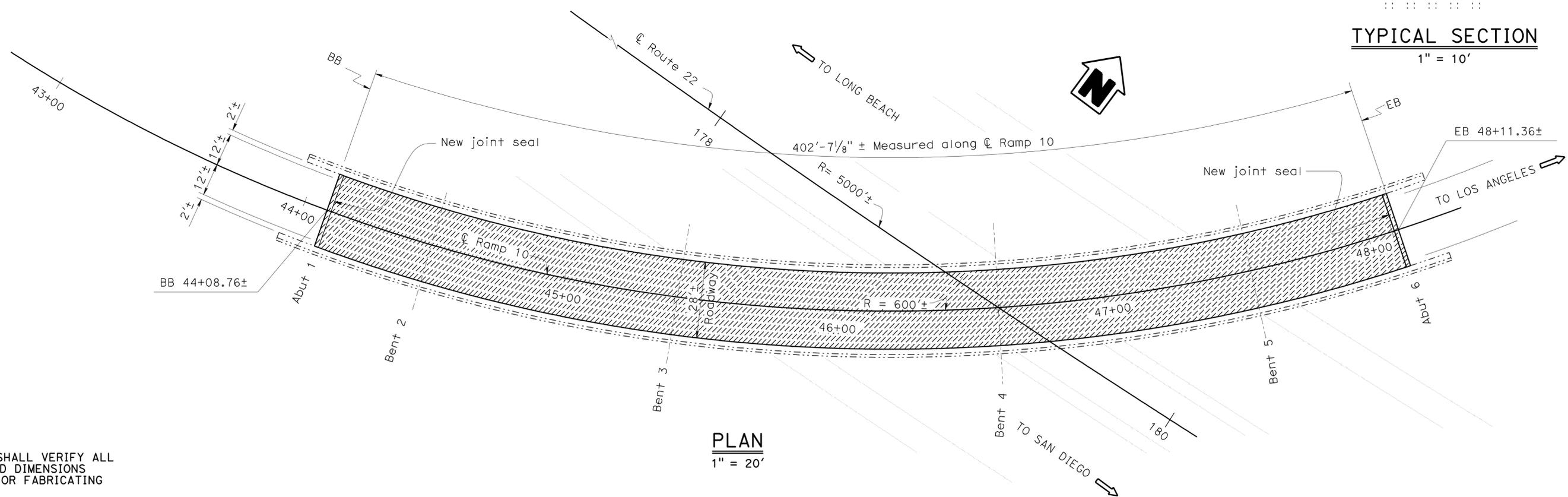
SHEET NO.	TITLE
A10A	ACRONYMS AND ABBREVIATIONS (SHEET 1 OF 2)
A10B	ACRONYMS AND ABBREVIATIONS (SHEET 2 OF 2)
RSP B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")

QUANTITIES

REMOVE UNSOUND CONCRETE	141 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	11,273 SQFT
CLEAN EXPANSION JOINT	60 LF
RAPID SETTING CONCRETE (PATCH)	141 CF
FURNISH POLYESTER CONCRETE OVERLAY	845 CF
PLACE POLYESTER CONCRETE OVERLAY	11,273 SQFT
PUBLIC SAFETY PLAN	LUMP SUM
JOINT SEAL (MR 1 1/2")	60 LF



TYPICAL SECTION
1" = 10'

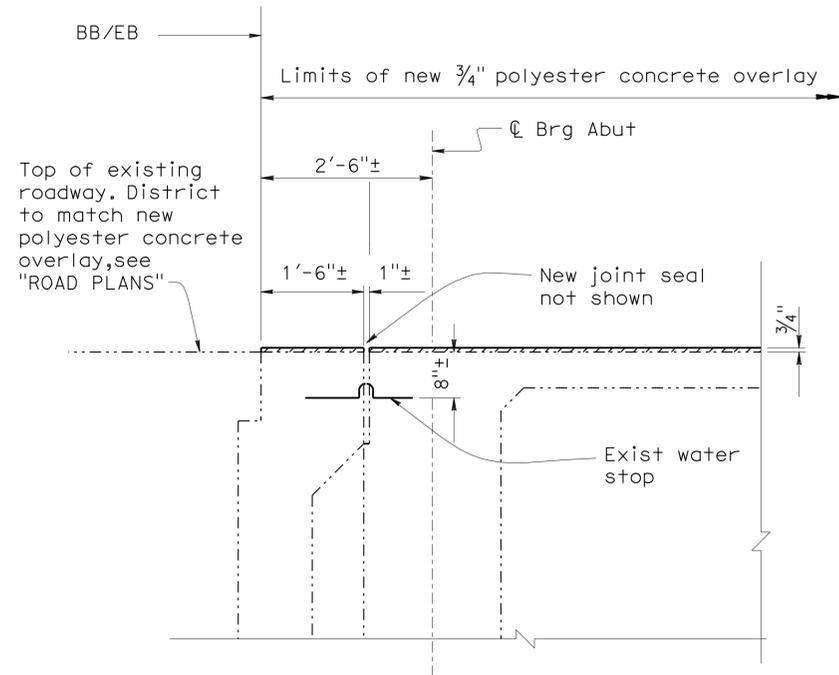


PLAN
1" = 20'

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

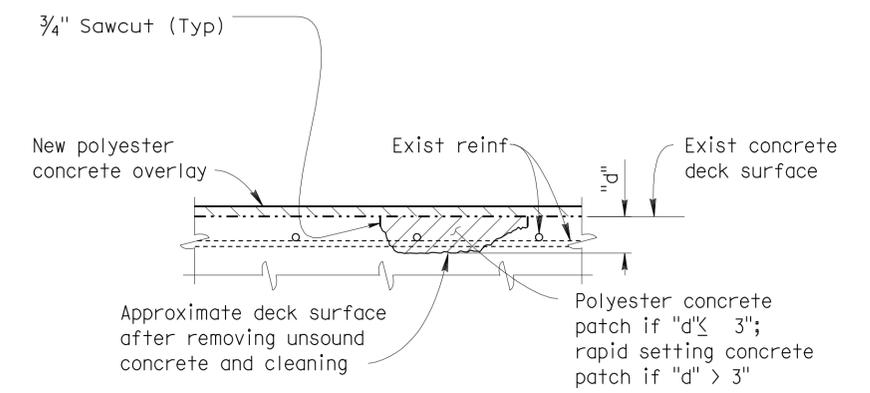
Michael Pope <small>DESIGN ENGINEER</small>	DESIGN	BY Jorge Estrada	CHECKED Mike Pope	LOAD & RESISTANCE FACTOR DESIGN	LIVE LOADING: HL93 W/"LOW-BOY"; PERMIT DESIGN VEHICLE	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 18	BRIDGE NO.	E22-N605 & N405/22 CONNECTOR SEPARATION GENERAL PLAN		
	DETAILS	BY Farideh Rashedi	CHECKED Jorge Estrada	LAYOUT	BY Farideh Rashedi			POST MILE			55-0428G
	QUANTITIES	BY Jorge Estrada	CHECKED Mike Pope	SPECIFICATIONS	BY Mingxia Pan			PLANS AND SPECS COMPARED			R 0.37

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3
 FILE => 55-0428g-o-gp.dgn
 DISREGARD PRINTS BEARING EARLIER REVISION DATES
 REVISION DATES: 3-4-10
 SHEET 1 OF 2

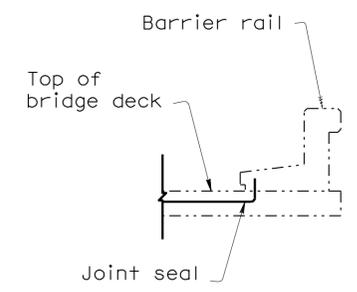


JOINT SEAL AT ABUTMENT
3/4" = 1'

- The following notes apply to "JOINT SEAL TYPE B":
- 1) Seal must satisfy both minimum Movement Rating (MR) and minimum W1 requirements.
 - 2) Minimum W1 is the calculated maximum width of the joint based on field measurements. After the joints have been cleaned, minimum W1 is to be calculated by the Engineer.
 - 3) W1 shall be the smaller of the values determined as follows:
 - A) 0.85 times the Manufacturer's designed minimum uncompressed width of the seal.
 - B) The width of the seal on the third successive test cycle of the pressure deflection test, when compressed to an average pressure of 3 psi.
 - 4) Bend Type B joint seal 6" up into curb or rail on the low side of the deck where deck joint matches curb or rail joint.
 - 5) For details not shown see 



DECK REPAIR DETAIL
NO SCALE
Locations to be determined by the Engineer. Reinforcement may be encountered during deck concrete removal.



JOINT SEAL AT LOW SIDE OF DECK
Details shown for illustration purposes only. For use only where deck joint matches the barrier rail joint.
NO SCALE

JOINT SEAL TABLE				
LOCATION	MINIMUM "MR" (Inches)	APPROX LENGTH (feet)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXPANSION JOINT (inches)
Abut 1	1 1/2	30	Yes	8"
Abut 6	1 1/2	30	Yes	8"

DECK REPAIR TABLE		
TOTAL DECK AREA (SQFT)	APPROXIMATE AREA DAMAGED (PERCENT)	APPROXIMATE DEPTH (INCHES)
11,273	5	3

Locations to be determined by the Engineer. For details see "DECK REPAIR DETAIL"