Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But, Col,Gle	5,20, 32,162	Var	1	18

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2-7	CONSTRUCTION DETAILS
8	SUMMARY OF QUANTITIES
9	EROSION CONTROL LEGEND
10-12	EROSION CONTROL DETAILS
13	EROSION CONTROL QUANTITIES
14-18	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

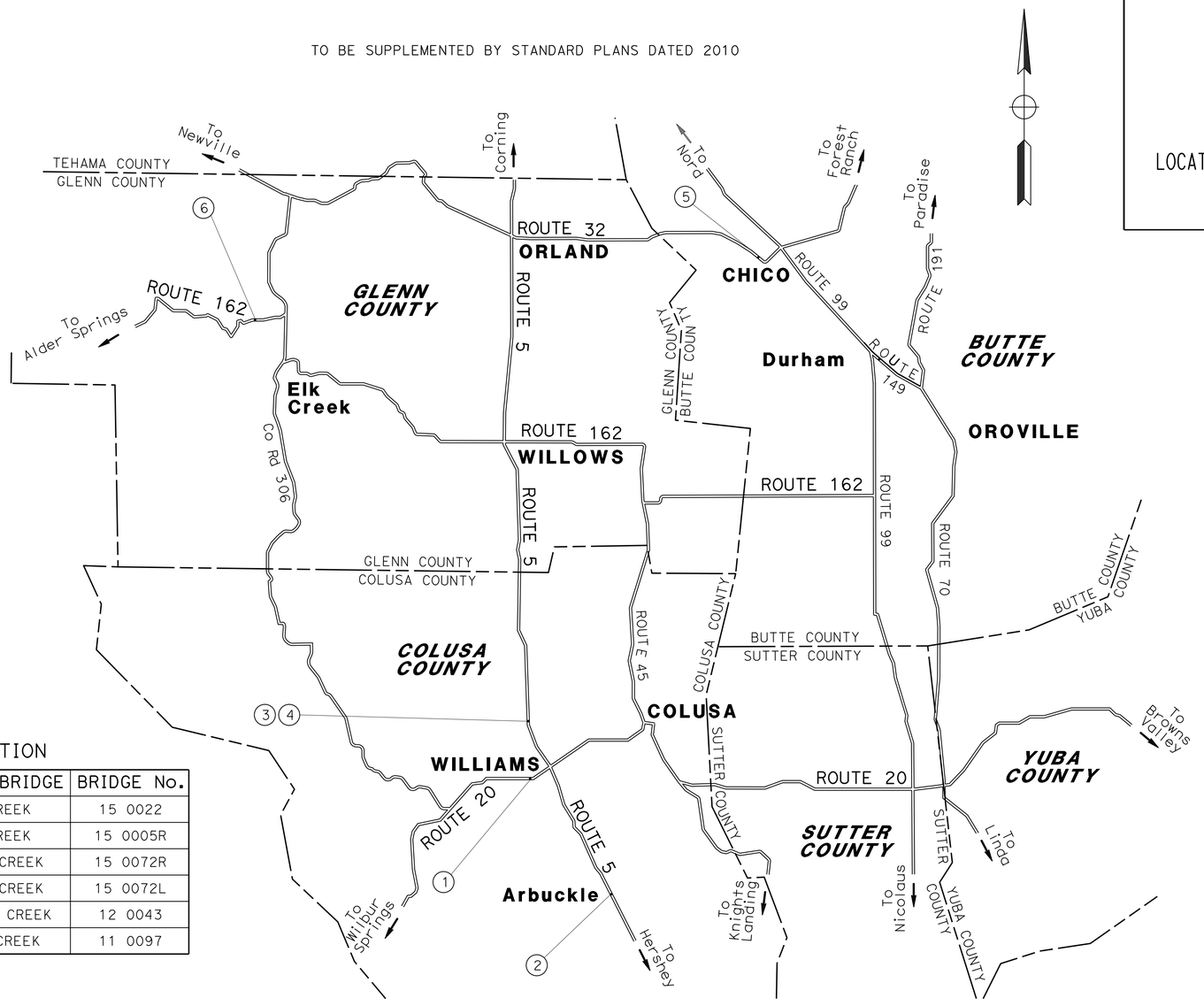
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON

STATE HIGHWAY

IN BUTTE, COLUSA, AND GLENN COUNTIES AT VARIOUS LOCATIONS

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010



NO SCALE

LOCATIONS OF CONSTRUCTION

LOCATION	COUNTY	ROUTE	PM	NAME OF BRIDGE	BRIDGE No.
(1)	Col	20	20.21	SALT CREEK	15 0022
(2)	Col	5	R7.99	SALT CREEK	15 0005R
(3)	Col	5	R22.31	LURLINE CREEK	15 0072R
(4)	Col	5	R22.32	LURLINE CREEK	15 0072L
(5)	But	32	8.31	BIG CHICO CREEK	12 0043
(6)	Gle	162	38.9	HUNTER CREEK	11 0097

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

PROJECT MANAGER: NAJEC DAKAK

DESIGN ENGINEER: KEN KEATON

PROJECT ENGINEER
REGISTERED CIVIL ENGINEER

4-1-14
DATE

SUKHDEEP SINGH SANDHER
No. 74893
Exp. 12-31-15
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

April 1, 2014
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.	03-4M2004
PROJECT ID	0300020038

DATE PLOTTED => 02-APR-2014
TIME PLOTTED => 12:50
LAST REVISION 00-00-00

BORDER LAST REVISED 9/30/2012 | CALTRANS WEB SITE IS: HTTP//WWW.DOT.CA.GOV/ | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => s130875 DGN FILE => 0300020038ab001.dgn | UNIT 0323 | PROJECT NUMBER & PHASE 03000200381

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But, Col,Gle	5,20, 32,162	Var	2	18

REGISTERED CIVIL ENGINEER — 4-1-14 DATE

SUKHDEEP SINGH SANDHER No. 74893 Exp.12-31-15 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

4-1-14
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 PLAIN SHEET.

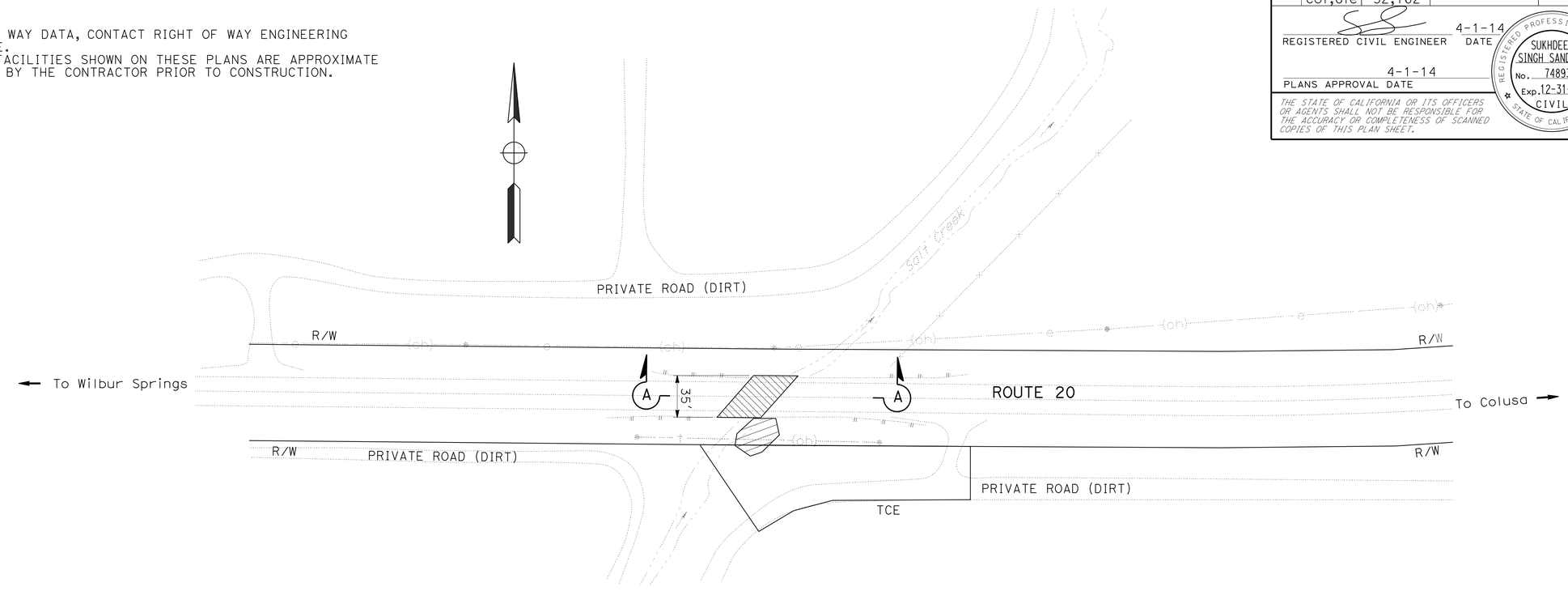
NOTES:

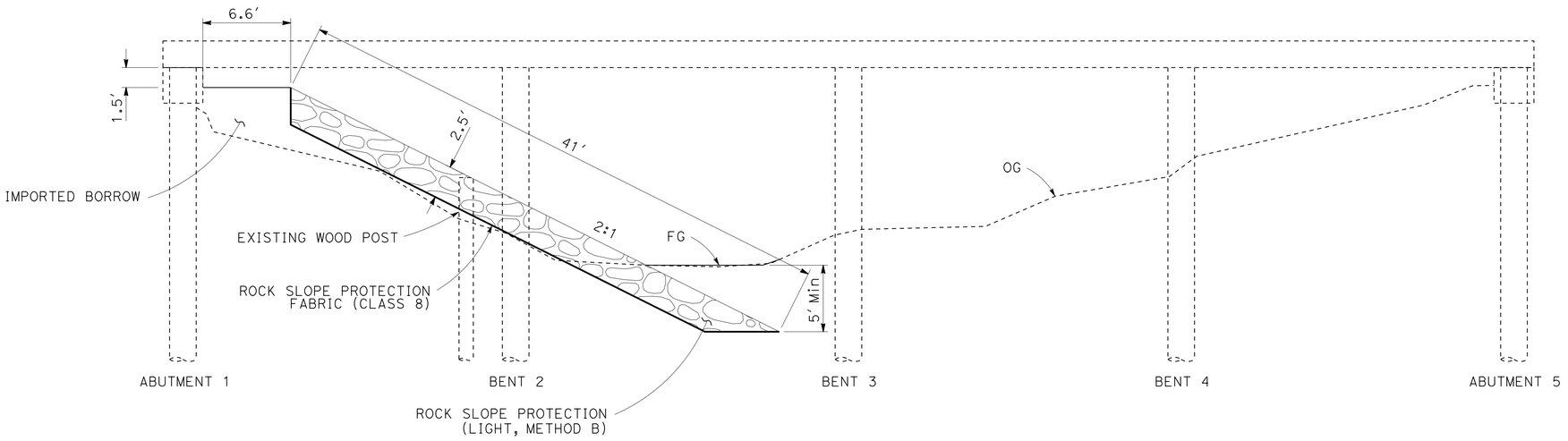
1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. LOCATIONS OF UTILITY FACILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

LEGEND:

WORK AREA

CLEAR AND GRUB





SECTION A - A

LOCATION 1

BRIDGE # 15-0022 - SALT CREEK
COL-20-PM 20.21

CONSTRUCTION DETAILS

NO SCALE

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
FUNCTIONAL SUPERVISOR: KEN KEATON
CALCULATED-DESIGNED BY: GARY DUGHI
CHECKED BY: SUKHDEEP SANDHER
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 02-APR-2014
TIME PLOTTED => 12:50

BORDER LAST REVISED 7/2/2010
USERNAME => s130875
DGN FILE => 0300020038ga001.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0323
PROJECT NUMBER & PHASE 03000200381

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But, Col,Gle	5,20, 32,162	Var	3	18

REGISTERED CIVIL ENGINEER — 4-1-14 DATE

SUKHDEEP SINGH SANDHER No. 74893 Exp.12-31-15 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

4-1-14
PLANS APPROVAL DATE

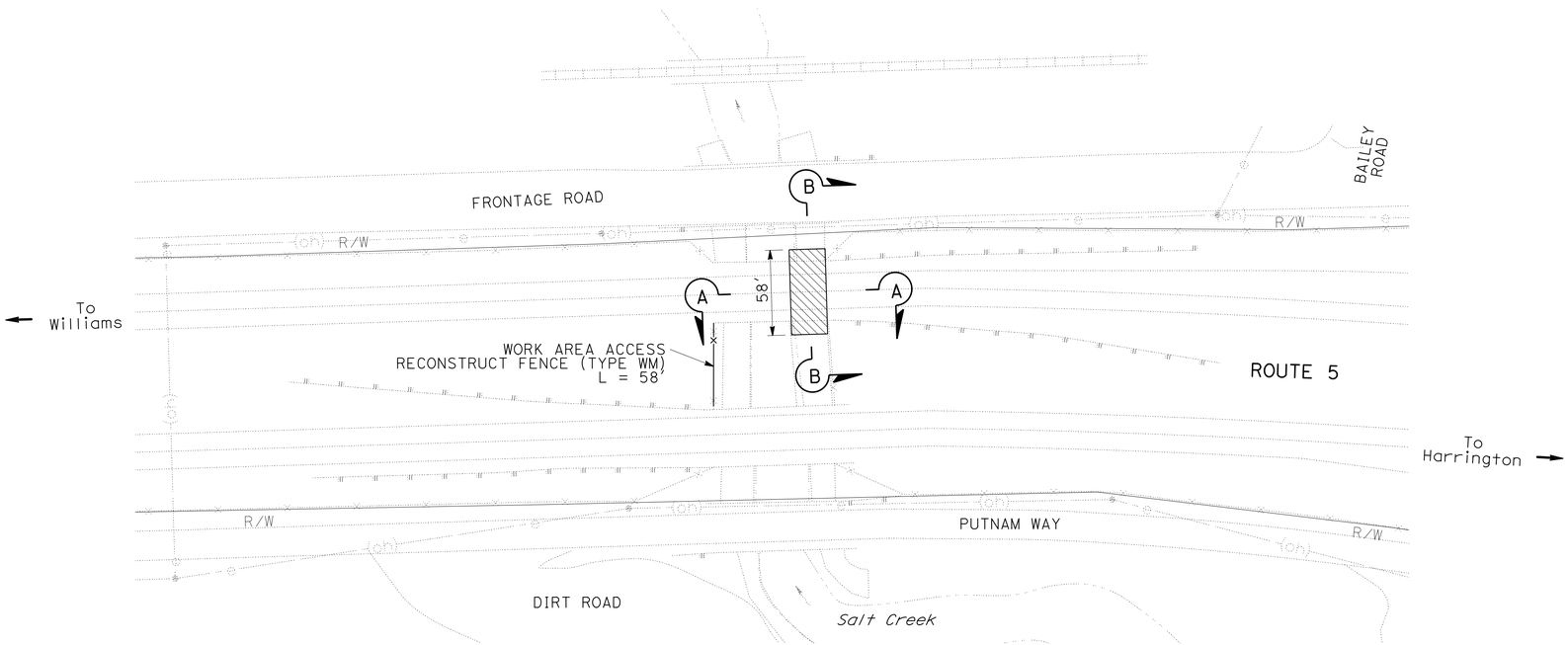
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. LOCATIONS OF UTILITY FACILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

LEGEND:

WORK AREA



NOTE: SEE CHEET C-3 FOR SECTION A - A AND SECTION B - B

LOCATION 2

BRIDGE # 15-0005R - SALT CREEK
COL-5-PM R7.99

CONSTRUCTION DETAILS

NO SCALE

C-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
FUNCTIONAL SUPERVISOR: KEN KEATON
CALCULATED-DESIGNED BY: GARY DUGHI
CHECKED BY: SUKHDEEP SANDHER
REVISED BY | DATE REVISED

LAST REVISION | DATE PLOTTED => 02-APR-2014 | 00-00-00 | TIME PLOTTED => 12:50

BORDER LAST REVISED 7/2/2010 | USERNAME => s130875 | DGN FILE => 0300020038ga002.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0323 | PROJECT NUMBER & PHASE 03000200381

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But, Col,Gle	5,20, 32,162	Var	4	18

REGISTERED CIVIL ENGINEER — 4-1-14 DATE

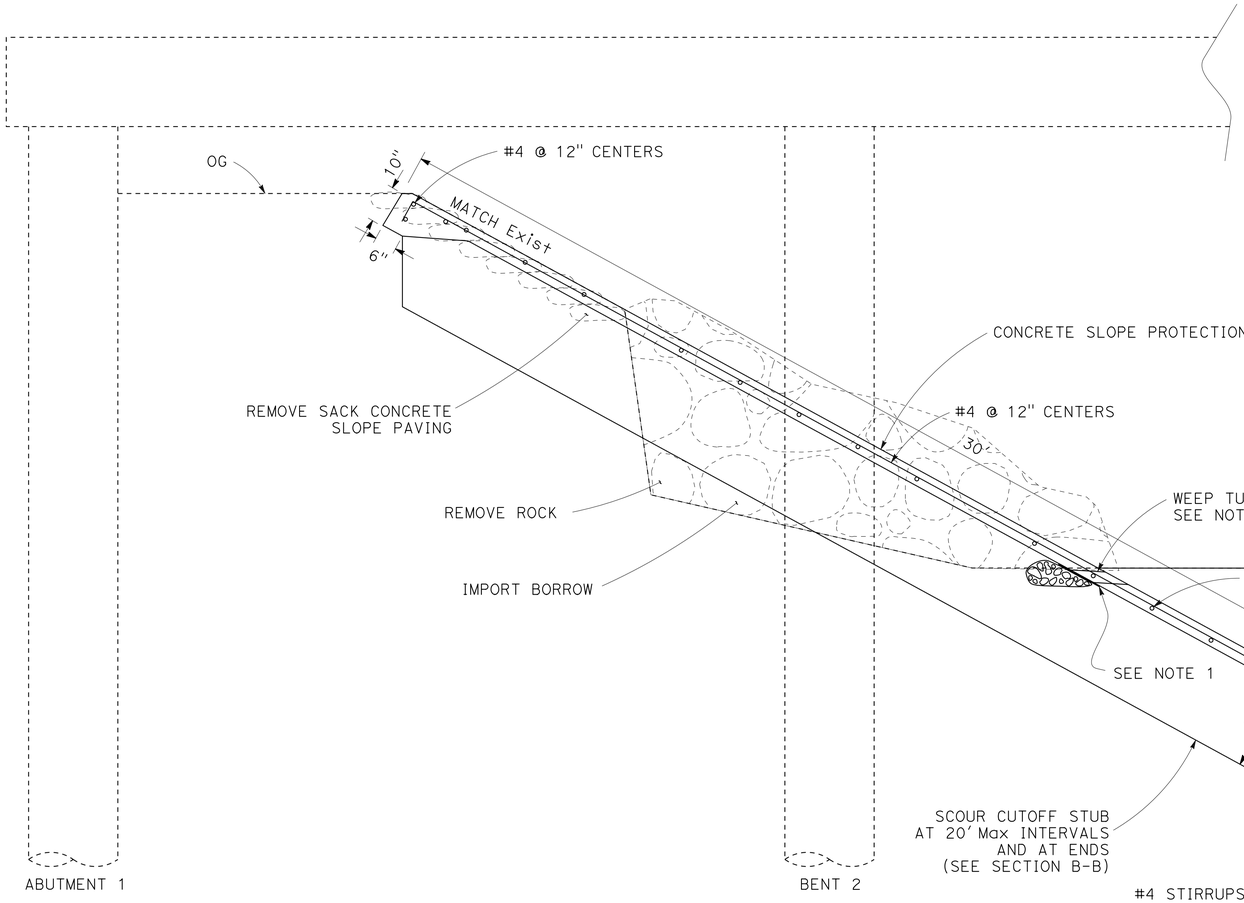
SUKHDEEP SINGH SANDHER No. 74893 Exp.12-31-15 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

4-1-14
PLANS APPROVAL DATE

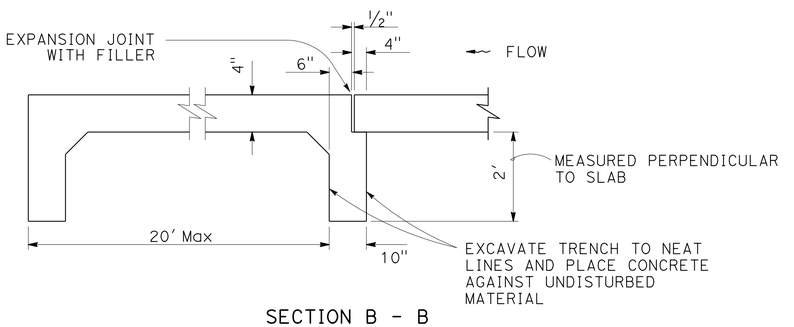
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. 6" SQUARE ALUMINUM OR GALVANIZED STEEL WIRE 1/4" MESH HARDWARE CLOTH, MINIMUM WIRE DIAMETER 0.025". ANCHOR FIRMLY TO BACKFACE.
2. WEEP TUBE ELEVATIONS TO BE DETERMINED IN FIELD.



SECTION A - A



SECTION B - B

LOCATION 2

BRIDGE # 15-0005R - SALT CREEK
COL-5-PM R7.99

CONSTRUCTION DETAILS

NO SCALE

C-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
FUNCTIONAL SUPERVISOR: KEN KEATON
CALCULATED-DESIGNED BY: GARY DUGHI
CHECKED BY: SUKHDEEP SANDHER
REVISED BY
DATE REVISED

LAST REVISION: 00-00-00 DATE PLOTTED => 02-APR-2014 TIME PLOTTED => 12:50

BORDER LAST REVISED 7/2/2010 | USERNAME => s130875 DGN FILE => 0300020038ga003.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0323 | PROJECT NUMBER & PHASE 03000200381

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But, Col,Gle	5,20, 32,162	Var	5	18

REGISTERED CIVIL ENGINEER — 4-1-14 DATE

SUKHDEEP SINGH SANDHER No. 74893 Exp.12-31-15 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

4-1-14
PLANS APPROVAL DATE

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NOTES:

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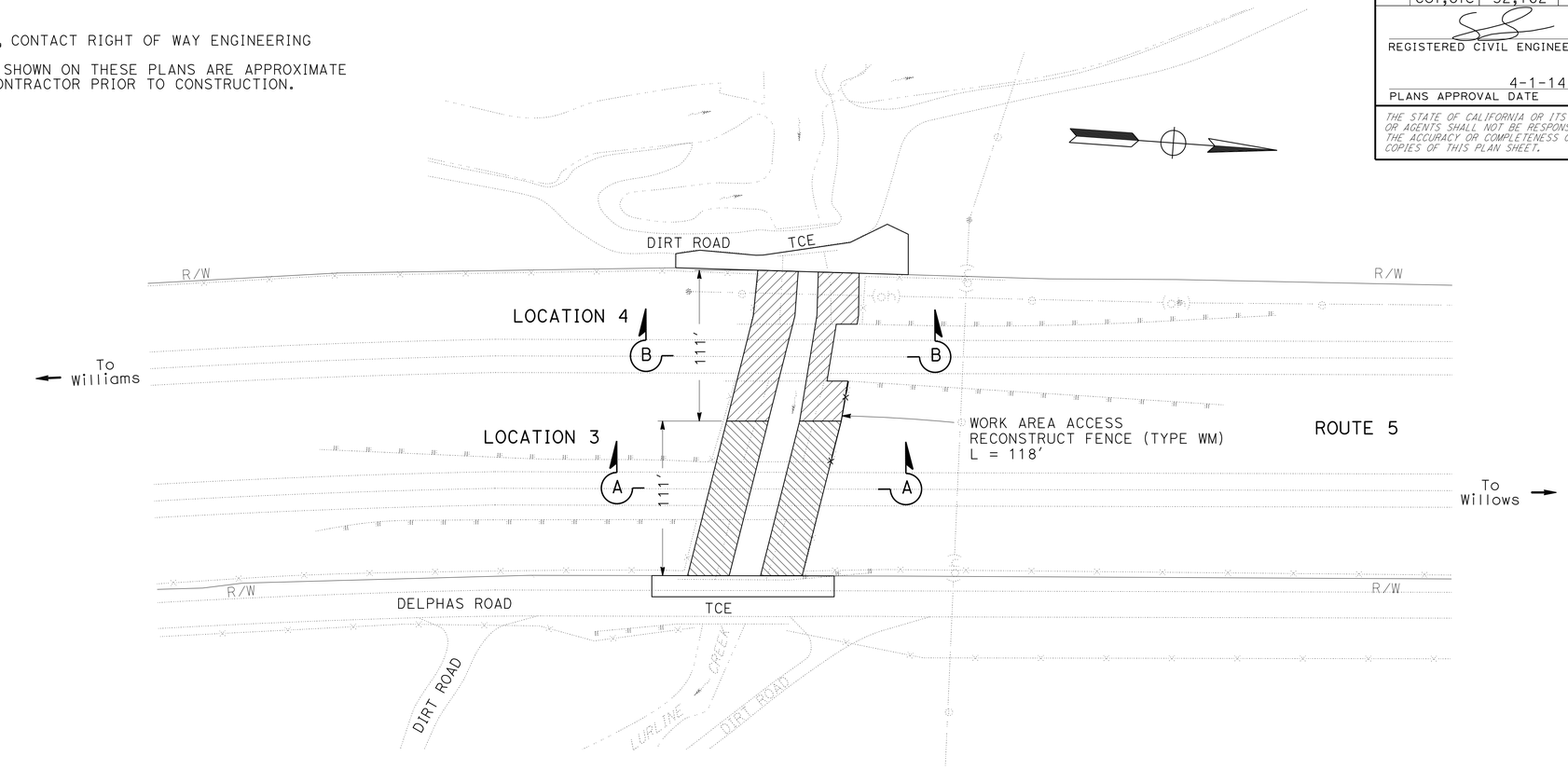
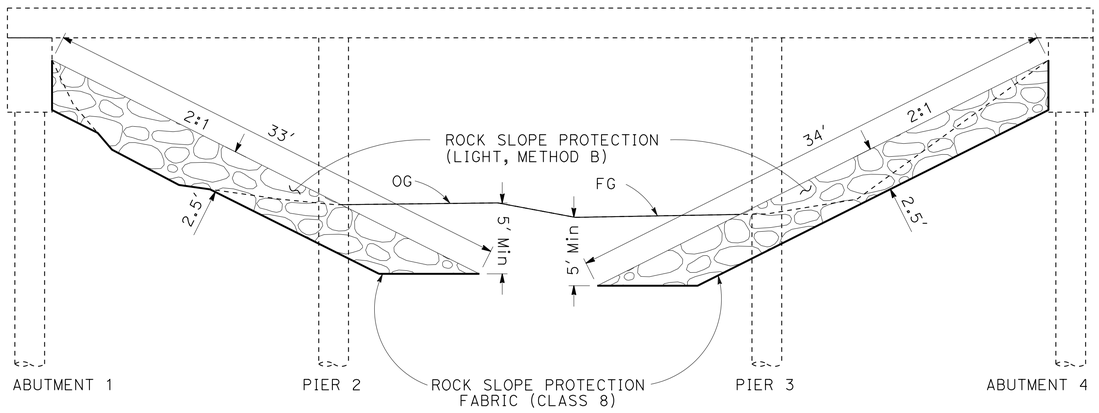
2. LOCATIONS OF UTILITY FACILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

LEGEND:

WORK AREA - LOCATION 3

WORK AREA - LOCATION 4

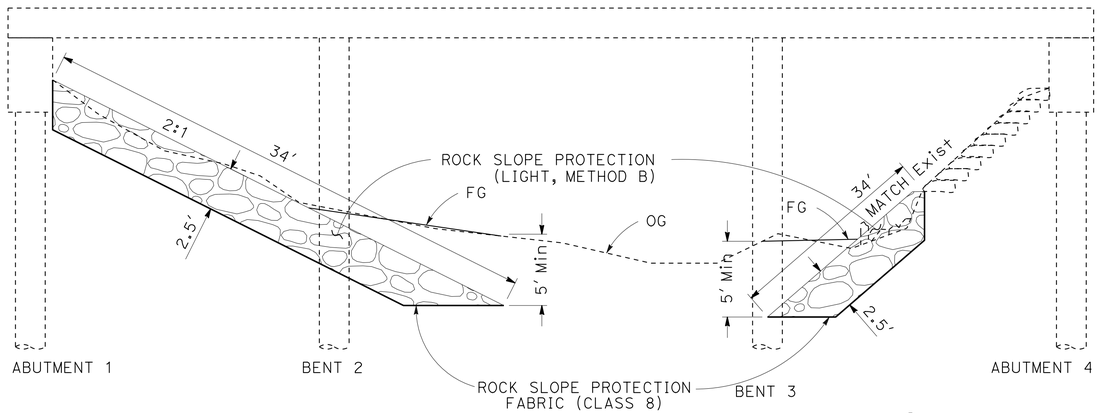




SECTION A - A

LOCATION 3

BRIDGE # 15-0072R



SECTION B - B

LOCATION 4

BRIDGE # 15-0072L

14'

LURLINE CREEK

COL-5-PM R22.31/R22.32

CONSTRUCTION DETAILS

NO SCALE

C-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — DESIGN

FUNCTIONAL SUPERVISOR: KEN KEATON

CALCULATED-DESIGNED BY: GARY DUGHI

CHECKED BY: SUKHDEEP SANDHER

REVISED BY | DATE REVISED

LAST REVISION 00-00-00 | DATE PLOTTED => 02-APR-2014 | TIME PLOTTED => 12:50

BORDER LAST REVISED 7/2/2010 | USERNAME => s130875 | DGN FILE => 0300020038ga004.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0323 | PROJECT NUMBER & PHASE 03000200381

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But, Col,Gle	5,20, 32,162	Var	6	18

REGISTERED CIVIL ENGINEER — 4-1-14 DATE

SUKHDEEP SINGH SANDHER No. 74893 Exp.12-31-15 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

4-1-14
PLANS APPROVAL DATE

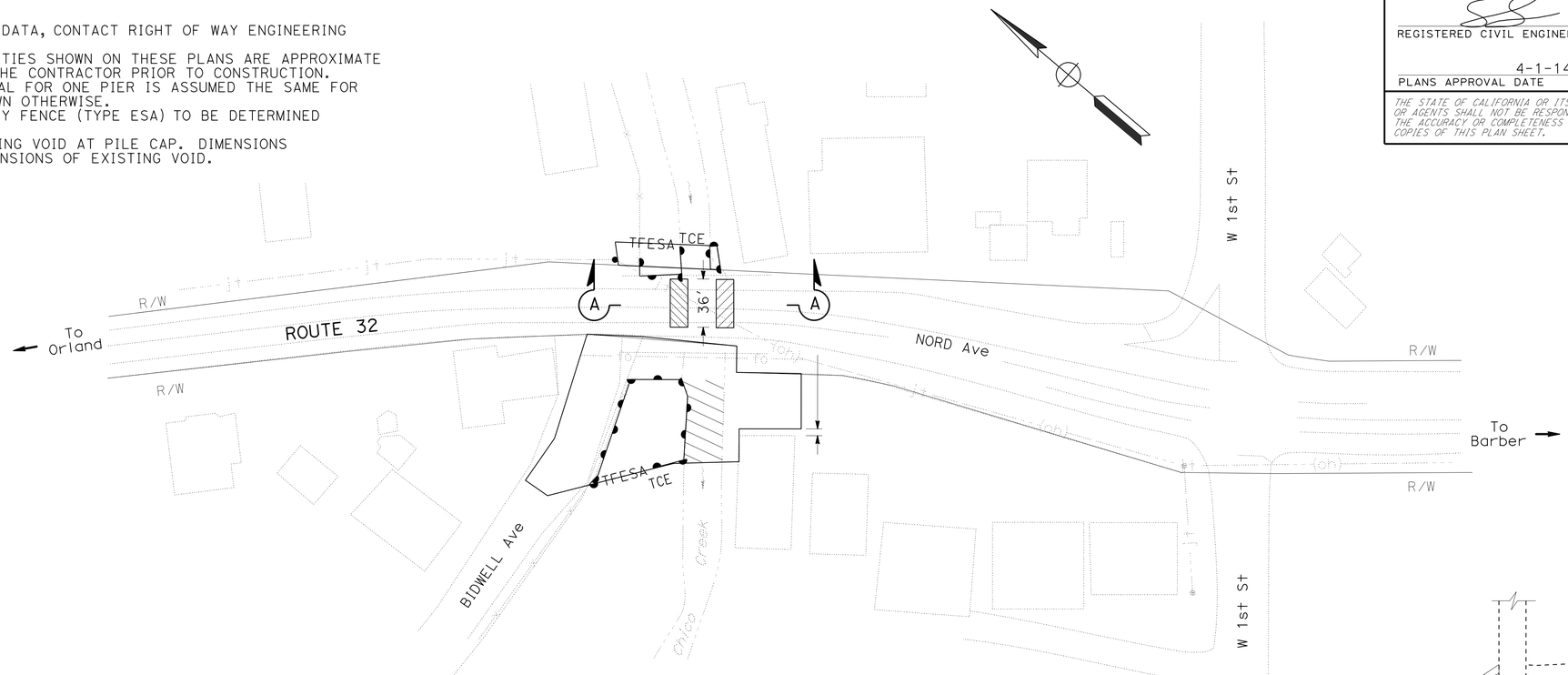
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

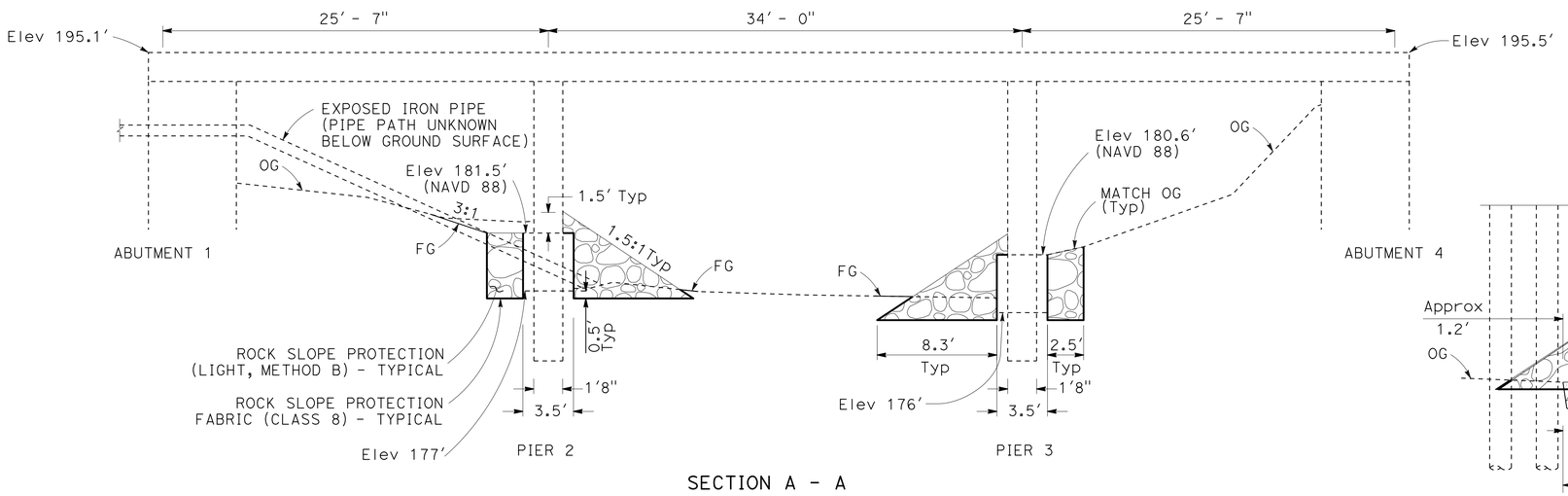
NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. LOCATIONS OF UTILITY FACILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
3. INFORMATION SHOWN AS TYPICAL FOR ONE PIER IS ASSUMED THE SAME FOR THE OTHER PIER UNLESS SHOWN OTHERWISE.
4. EXACT LOCATION OF TEMPORARY FENCE (TYPE ESA) TO BE DETERMINED BY THE ENGINEER.
5. MINOR CONCRETE FILLS EXISTING VOID AT PILE CAP. DIMENSIONS SHOWN ARE APPROXIMATE DIMENSIONS OF EXISTING VOID.

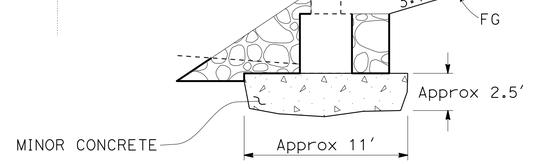
LEGEND:

- WORK AREA - PIER 2
- WORK AREA - PIER 3
- ENVIRONMENTALLY SENSITIVE AREA

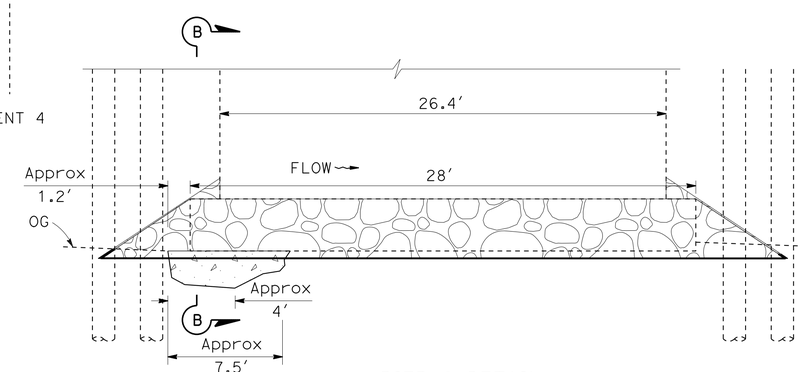




SECTION A - A



SECTION B - B



PIER 2 DETAIL

LOCATION 5

BRIDGE # 12-0043 - BIG CHICO CREEK
BUT-32-PM 8.31

CONSTRUCTION DETAILS

NO SCALE

C-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — DESIGN
FUNCTIONAL SUPERVISOR: KEN KEATON
CALCULATED-DESIGNED BY: GARY DUGHI
CHECKED BY: SUKHDEEP SANDHER
REVISED BY | DATE REVISED

LAST REVISION 00-00-00 | DATE PLOTTED => 02-APR-2014 | TIME PLOTTED => 12:50

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But, Col,Gle	5,20, 32,162	Var	7	18

REGISTERED CIVIL ENGINEER — DATE 4-1-14

PLANS APPROVAL DATE 4-1-14

REGISTERED PROFESSIONAL ENGINEER — SUKHDEEP SINGH SANDHER — No. 74893 — Exp. 12-31-15 — 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.

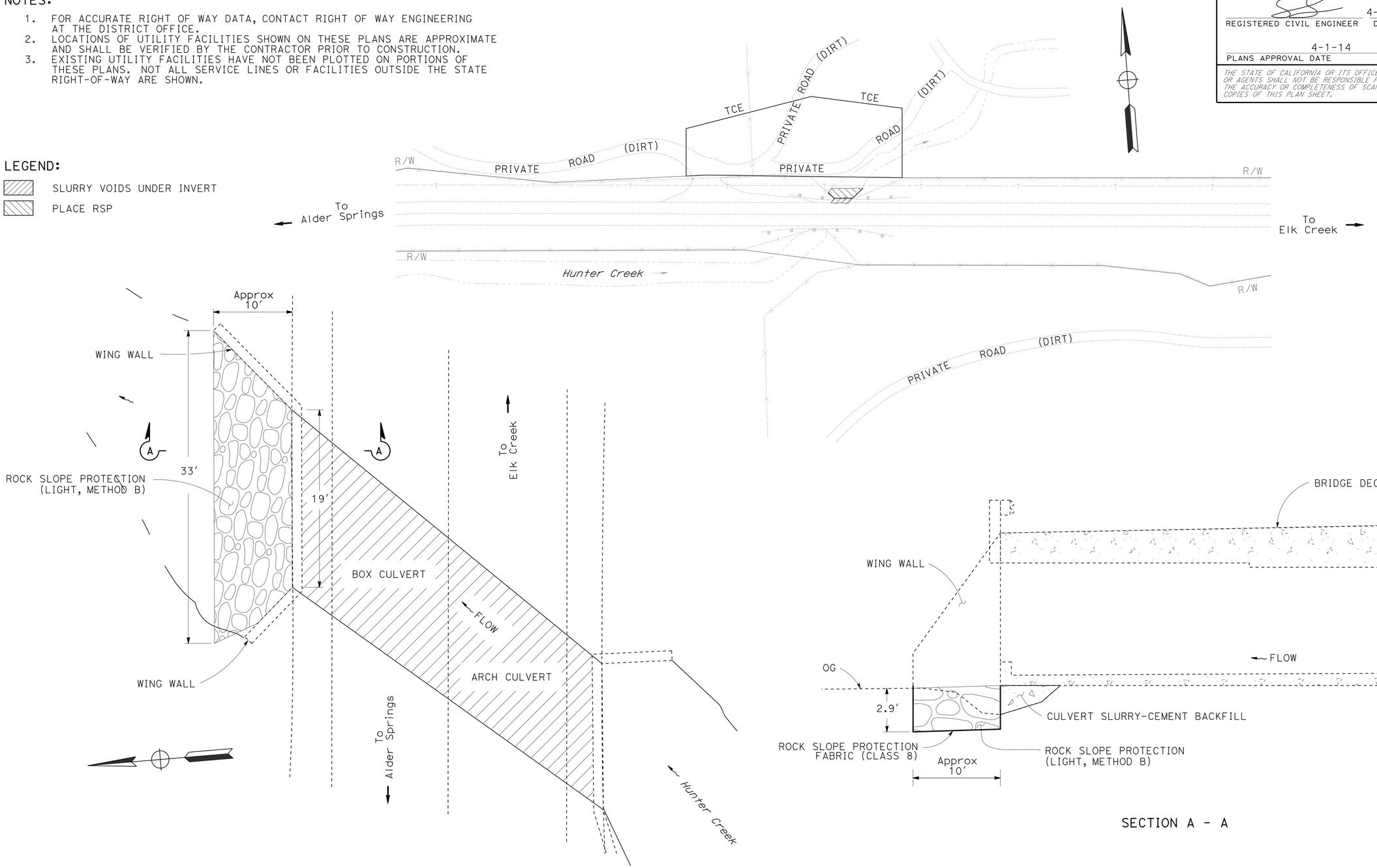
NOTES:

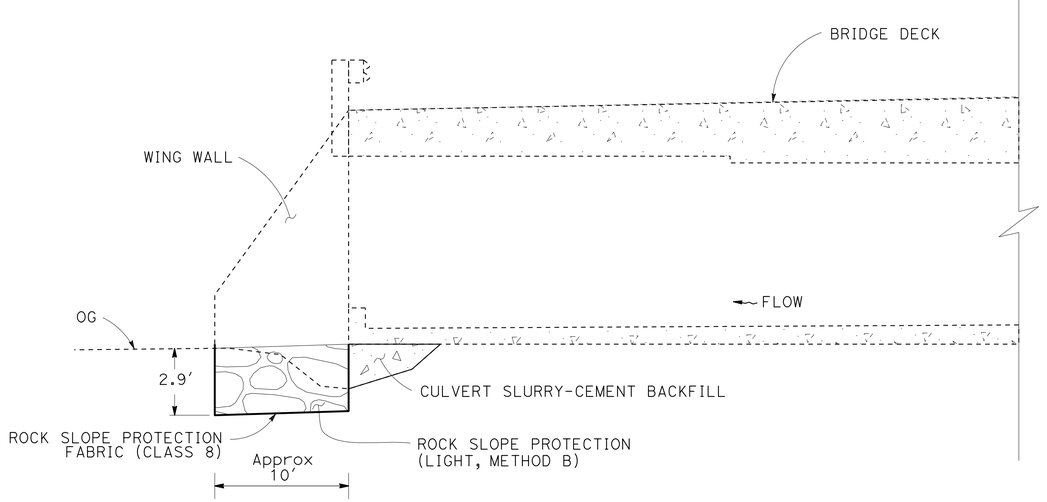
1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. LOCATIONS OF UTILITY FACILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
3. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON PORTIONS OF THESE PLANS. NOT ALL SERVICE LINES OR FACILITIES OUTSIDE THE STATE RIGHT-OF-WAY ARE SHOWN.

LEGEND:

SLURRY VOIDS UNDER INVERT

PLACE RSP





SECTION A - A

LOCATION 6

BRIDGE # 11-0097 - HUNTER CREEK
GLE-162-PM38.9

CONSTRUCTION DETAILS

NO SCALE

C-6

REVISED BY | DATE REVISED

GARY DUGHI | SUKHDEEP SANDHER

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR: KEN KEATON

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — DESIGN

Caltrans®

LAST REVISION 00-00-00 | DATE PLOTTED => 02-APR-2014 | TIME PLOTTED => 12:50

BORDER LAST REVISED 7/2/2010 | USERNAME => s130875 | DGN FILE => 0300020038ga006.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0323 | PROJECT NUMBER & PHASE 03000200381

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But, Col,Gle	5,20, 32,162	Var	8	18

REGISTERED CIVIL ENGINEER — 4-1-14 DATE

SUKHDEEP SINGH SANDHER No. 74893 Exp.12-31-15 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

4-1-14
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.

QUANTITIES

LOCATION	COUNTY/RTE/PM	BRIDGE	RSP FABRIC (CLASS 8)	RSP (LIGHT, METHOD B)	REMOVE ROCK	REMOVE SACK CONCRETE SLOPE PAVING	CONCRETE (SLOPE PROTECTION)	IMPORTED BORROW	(N) EMBANKMENT	(N) Misc IRON AND STEEL	(N) PERVIOUS BACKFILL MATERIAL	CULVERT SLURRY-CEMENT BACKFILL	MINOR CONCRETE	RECONSTRUCT FENCE (TYPE WM)	TEMPORARY FENCE (TYPE ESA)
			SQYD	CY	CY	CY	CY	CY	CY	LB	CY	CY	CY	LF	LF
1	COL-20-20.21	15-0022	190	123				48	70						
2	COL-5-PM R7.99	15-0005R			56	33	34.4	67	152	2396	0.3			58	
3	COL-5-PM R22.31	15-0072R	1104	815					996					59	
4	COL-5-PM R22.32	15-0072L	789	555					829					59	
5	BUT-32-PM 8.31	12-0043	252	88					41				5.2		418
6	GLE-162-PM 38.9	11-0097	49	23					20			4.9			
SUBTOTAL			2384	1604	56	33	34.4	115	2108	2396	0.3	4.9	9.8	176	418
TOTAL			2384	1604	56	33	34.4	115	-	-	-	4.9	9.8	176	418

(N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY

TEMPORARY STORMWATER QUANTITIES

TEMPORARY GRAVEL BAG BERM	LF	200
TEMPORARY FIBER ROLL	LF	120

SUMMARY OF QUANTITIES

Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
FUNCTIONAL SUPERVISOR: KEN KEATON
CALCULATED-DESIGNED BY: GARY DUGHI
CHECKED BY: SUKHDEEP SANDHER
REVISED BY | DATE REVISED

LAST REVISION 00-00-00 | DATE PLOTTED => 02-APR-2014 | TIME PLOTTED => 12:50

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But, Col,Gle	5,20, 32,162	Var	9	18

LICENSED LANDSCAPE ARCHITECT

4-1-14
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
JAMES G. WILLIAMSON
No. 5415
Signature
02-29-16
Renewal Date
4-1-14
Date
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.

EROSION CONTROL (TYPE 1)

SEQUENCE	ITEM	MATERIAL		APPLICATION RATE
		DESCRIPTION	TYPE	
STEP 1	EROSION CONTROL (BONDED FIBER MATRIX)	TACKIFIER	BONDED FIBER MATRIX	500 LB/ACRE
		SEED	--	50 LB/ACRE
		FERTILIZER	ORGANIC	1200 LB/ACRE
STEP 2	EROSION CONTROL (BONDED FIBER MATRIX)	TACKIFIER	BONDED FIBER MATRIX	3500 LB/ACRE

EROSION CONTROL (TYPE 2)

SEQUENCE	ITEM	MATERIAL		APPLICATION RATE
		DESCRIPTION	TYPE	
STEP 1	ROLLED EROSION CONTROL PRODUCT (NETTING)	NETTING	TYPE A	---
STEP 2	EROSION CONTROL (BONDED FIBER MATRIX)	TACKIFIER	BONDED FIBER MATRIX	500 LB/ACRE
		SEED	--	50 LB/ACRE
		FERTILIZER	ORGANIC	1200 LB/ACRE
STEP 3	EROSION CONTROL (BONDED FIBER MATRIX)	TACKIFIER	BONDED FIBER MATRIX	3500 LB/ACRE

SEED MIX

BOTANICAL NAME (COMMON NAME)	PERCENT GERMINATION (MINIMUM)	POUNDS PURE LIVE SEED PER ACRE (SLOPE MEASUREMENT)
BROMUS CARINATUS[1] (CALIFORNIA BROME)	80	17
ESCHSCHOLZIA CALIFORNICUM (CALIFORNIA POPPY)	75	3
ELYMUS GLAUCUS[1] (BLUE WILDRYE)	80	10
LUPINUS BICOLOR[1] (PIGMY-LEAVED LUPINE)	80	10
LEYMUS TRITICOIDES[1] (CREEPING WILD RYE)	70	10
		50

[1] SEED PRODUCED IN NORTHERN CALIFORNIA ONLY.

EROSION CONTROL LEGEND

ECL-1

REVISED BY	DATE REVISED
J. WILLIAMSON	T. CHRIS JOHNSON
CALCULATED-DESIGNED BY	CHECKED BY
T. CHRIS JOHNSON	

SENIOR LANDSCAPE ARCHITECT

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® LANDSCAPE ARCHITECTURE

LAST REVISION 01-07-14
DATE PLOTTED => 02-APR-2014
TIME PLOTTED => 12:50

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But, Col,Gle	5,20, 32,162	Var	10	18

LICENSED LANDSCAPE ARCHITECT

4-1-14
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
JAMES G. WILLIAMSON
No. 5415
Signature
02-29-16
Renewal Date
4-1-14
Date
STATE OF CALIFORNIA

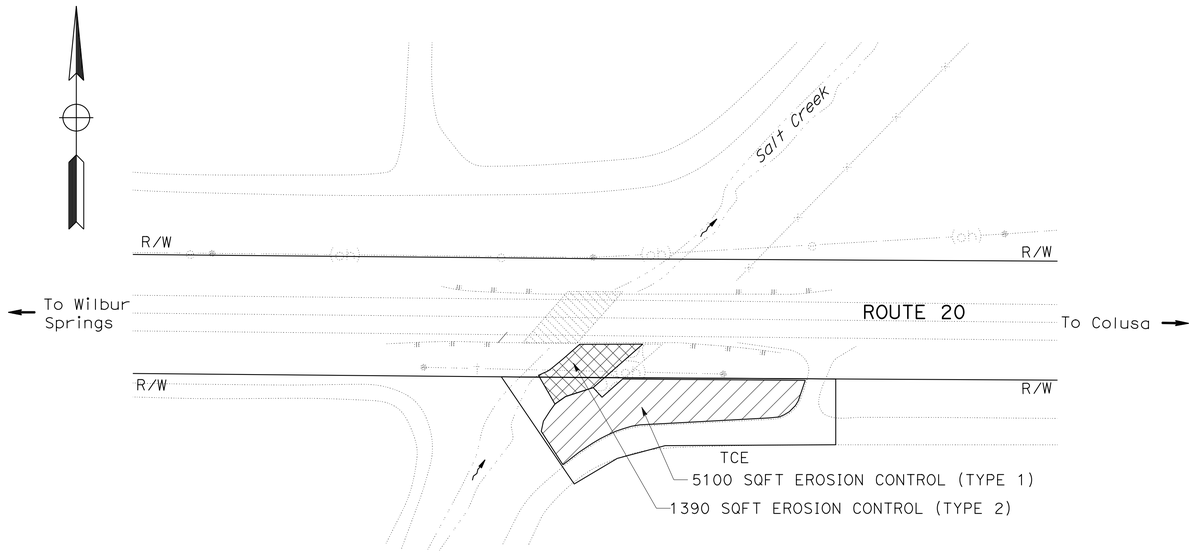
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

LEGEND:

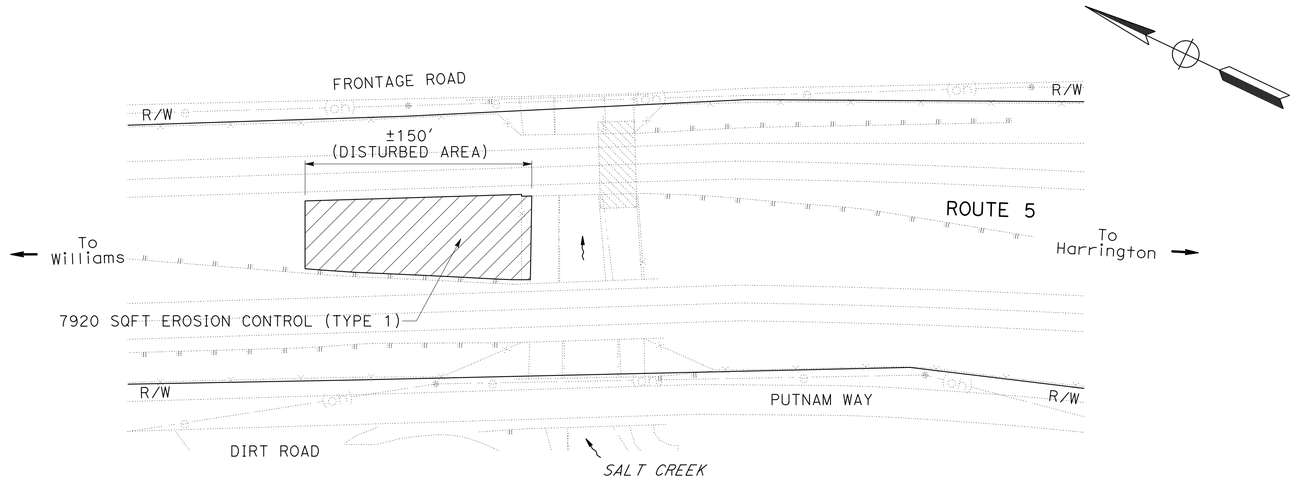
- EROSION CONTROL (TYPE 1)
  - EROSION CONTROL (BONDED FIBER MATRIX)
- EROSION CONTROL (TYPE 2)
  - ROLLED EROSION CONTROL PRODUCT (NETTING)
  - EROSION CONTROL (BONDED FIBER MATRIX)
- VEGETATED ROCK SLOPE PROTECTION



PLAN

LOCATION 1

BRIDGE #15-0022 - SALT CREEK
COL-20-PM 20.21



PLAN

LOCATION 2

BRIDGE #15-0005R - SALT CREEK
COL-5-PM R7.99

APPROVED FOR EROSION CONTROL WORK ONLY

EROSION CONTROL DETAILS

NO SCALE

ECD-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT: T. CHRIS JOHNSON

CALCULATED-DESIGNED BY: J. WILLIAMSON
CHECKED BY: T. CHRIS JOHNSON

REVISED BY | DATE REVISED

LAST REVISION: 01-03-14
DATE PLOTTED => 02-APR-2014
TIME PLOTTED => 12:50

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But, Col,Gle	5,20, 32,162	Var	11	18

LICENSED LANDSCAPE ARCHITECT

4-1-14
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
JAMES G. WILLIAMSON
No. 5415
Signature
02-29-16
Renewal Date
4-1-14
Date
STATE OF CALIFORNIA

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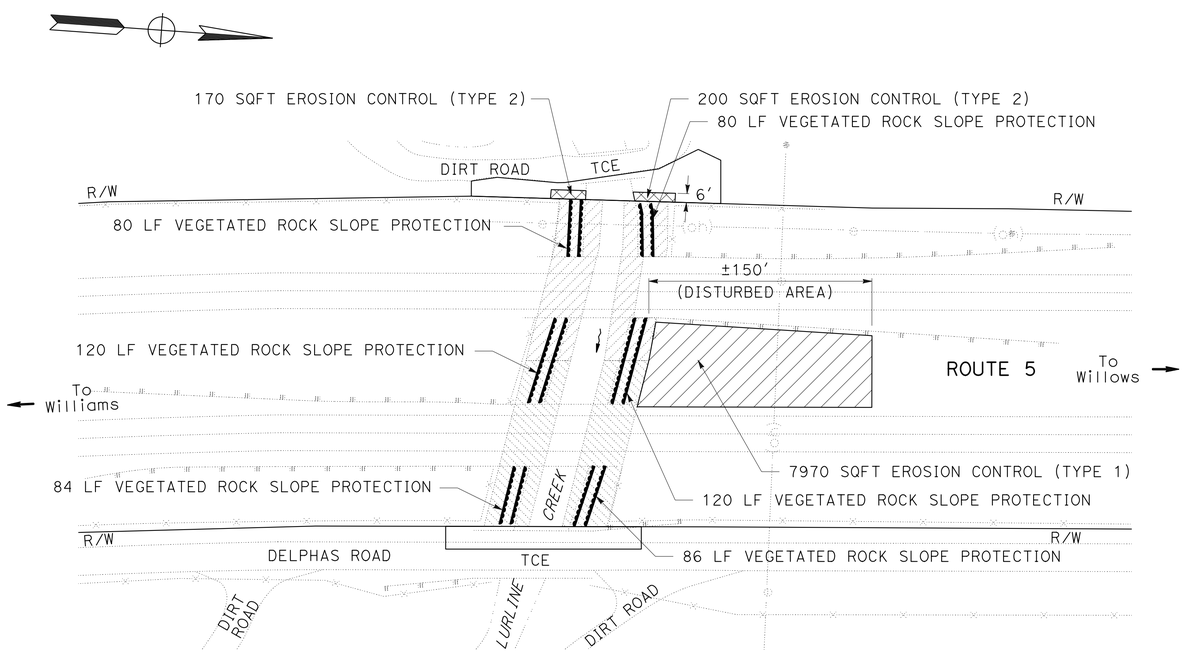
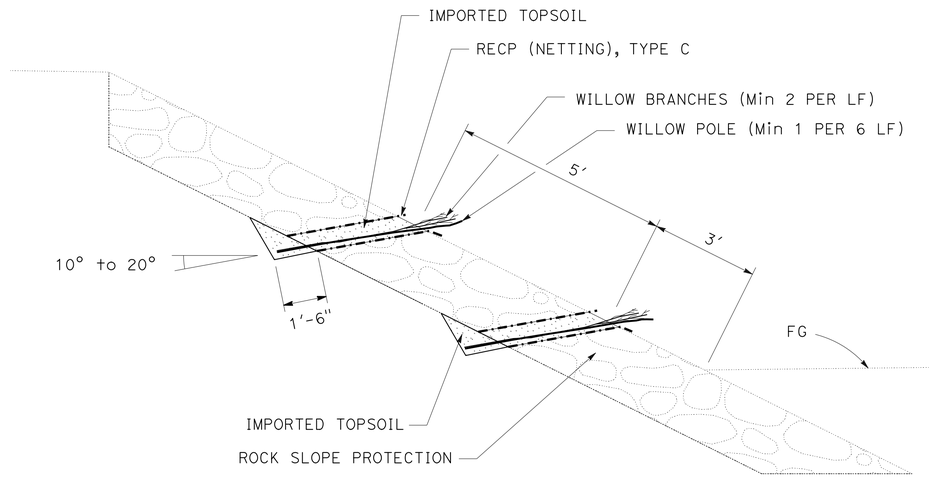


PLAN



SECTION

VEGETATED ROCK SLOPE PROTECTION

LOCATION 3 & 4

BRIDGES #15-0072R & #15-0072L - LURLINE CREEK
COL-5-PM R22.31/R22.32

APPROVED FOR EROSION CONTROL WORK ONLY

EROSION CONTROL DETAILS

NO SCALE

ECD-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
LANDSCAPE ARCHITECTURE
SENIOR LANDSCAPE ARCHITECT: T. CHRIS JOHNSON
CALCULATED-DESIGNED BY: J. WILLIAMSON
CHECKED BY: T. CHRIS JOHNSON
REVISED BY
DATE REVISED

LAST REVISION 01-09-14
DATE PLOTTED => 02-APR-2014
TIME PLOTTED => 12:50

BORDER LAST REVISED 7/2/2010
USERNAME => s130875
DGN FILE => 0300020038tf002.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0381
PROJECT NUMBER & PHASE 03000200381

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But, Col,Gle	5,20, 32,162	Var	12	18

LICENSED LANDSCAPE ARCHITECT

4-1-14
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
JAMES G. WILLIAMSON
No. 5415
Signature
02-29-16
Renewal Date
4-1-14
Date
STATE OF CALIFORNIA

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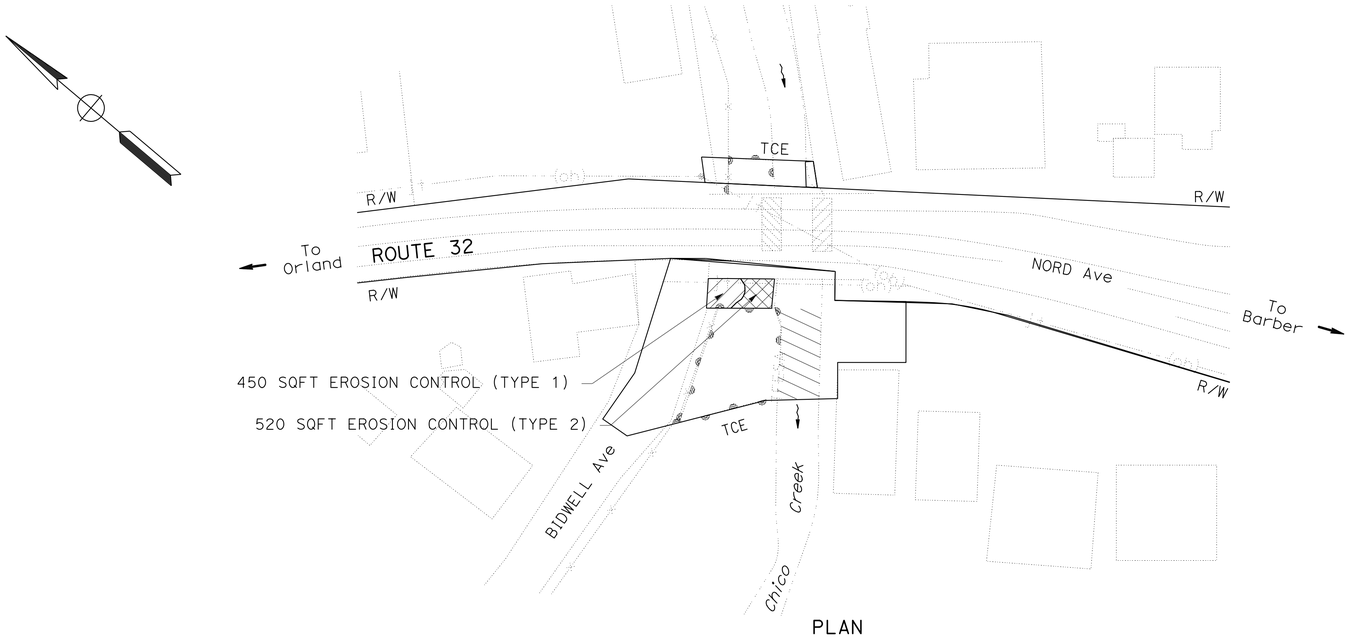
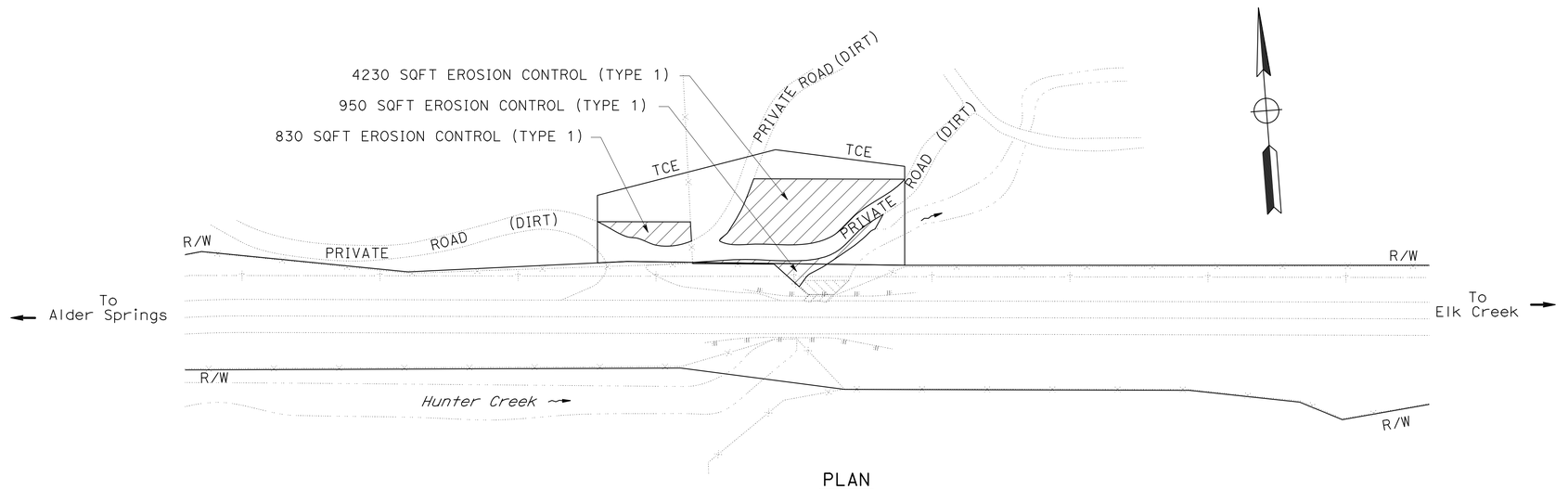


PLAN

LOCATION 5

BRIDGE #12-0043 - BIG CHICO CREEK
BUT-32-PM 8.31



PLAN

LOCATION 6

BRIDGE #11-0097 - HUNTER CREEK
GLE-162-PM 38.9

EROSION CONTROL DETAILS

NO SCALE

ECD-3

APPROVED FOR EROSION CONTROL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
LANDSCAPE ARCHITECTURE
SENIOR LANDSCAPE ARCHITECT: T. CHRIS JOHNSON
CALCULATED-DESIGNED BY: J. WILLIAMSON
CHECKED BY: T. CHRIS JOHNSON
REVISED BY
DATE REVISED

LAST REVISION: 01-09-14
DATE PLOTTED => 02-APR-2014
TIME PLOTTED => 12:50

BORDER LAST REVISED 7/2/2010
USERNAME => s130875
DGN FILE => 0300020038tf003.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0381
PROJECT NUMBER & PHASE 03000200381

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But, Col,Gle	5,20, 32,162	Var	13	18

LICENSED LANDSCAPE ARCHITECT

4-1-14
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
JAMES G. WILLIAMSON
No. 5415
Signature
02-29-16
Renewal Date
4-1-14
Date
STATE OF CALIFORNIA

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EROSION CONTROL QUANTITIES

LOCATION	COUNTY/RTE/PM	BRIDGE	EROSION CONTROL TYPE	EROSION CONTROL (BONDED FIBER MATRIX)	ROLLED EROSION CONTROL PRODUCT (NETTING)	(N) SEED	(N) TACKIFIER	(N) FERTILIZER
				SQFT	SQFT	LB	LB	LB
1	COL-20-PM 20.21	15-0022	2	1390	1390	1.60	127.6	38.3
			1	5100	--	5.85	468.3	140.5
2	COL-5-PM R7.99	15-0005R	1	7920	--	9.09	727.3	218.2
3 & 4	COL-5-PM R22.31 COL-5-PM R22.32	15-0072R 15-0072L	2	170	170	0.20	15.6	4.7
			2	200	200	0.23	18.4	5.5
			1	7970	--	9.15	731.9	219.6
5	BUT-32-PM 8.31	12-0043	1	450	--	0.52	41.3	12.4
			2	520	520	0.60	47.8	14.3
6	GLE-162-PM 38.9	11-0097	1	830	--	0.95	76.2	22.9
			1	950	--	1.09	87.2	26.2
			1	4230	--	4.86	388.4	116.5
			TOTAL	29,730	2280			

(N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY

VEGETATED ROCK SLOPE PROTECTION QUANTITIES

LOCATION	COUNTY/RTE/PM	BRIDGE	VEGETATED ROCK SLOPE PROTECTION	(N) IMPORTED TOPSOIL	(N) WILLOW BRANCHES	(N) WILLOW POLES	(N) ROLLED EROSION CONTROL PRODUCT NETTING)
			LF	CY	EA	EA	SQFT
3 & 4	COL-5-PM R22.31 COL-5-PM R22.32	15-0072R 15-0072L	80	26	160	14	760
			120	40	240	20	1140
			84	28	168	14	798
			80	26	160	14	760
			120	40	240	20	1140
			86	28	172	14	817
		TOTAL	570				

(N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY

EROSION CONTROL QUANTITIES

ECQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT: T. CHRIS JOHNSON
CALCULATED-DESIGNED BY: J. WILLIAMSON
CHECKED BY: T. CHRIS JOHNSON
REVISED BY
DATE REVISED

LAST REVISION 01-03-14
DATE PLOTTED => 02-APR-2014
TIME PLOTTED => 12:50

M

Maint	MAINTENANCE
Max	MAXIMUM
MB	METAL BEAM
MBB	METAL BEAM BARRIER
MBGR	METAL BEAM GUARD RAILING
Med	MEDIAN
MGS	MIDWEST GUARDRAIL SYSTEM
MH	MANHOLE
Min	MINIMUM
Misc	MISCELLANEOUS
Misc I & S	MISCELLANEOUS IRON AND STEEL
Mkr	MARKER
Mod	MODIFIED, MODIFY
Mon	MONUMENT
MP	METAL PLATE
MPGR	METAL PLATE GUARD RAILING
MR	MOVEMENT RATING
MSE	MECHANICALLY STABILIZED EMBANKMENT
Mt	MOUNTAIN, MOUNT
Mtl	MATERIAL
MVP	MAINTENANCE VEHICLE PULLOUT

N

N	NORTH
NB	NORTHBOUND
No.	NUMBER (MUST HAVE PERIOD)
Nos.	NUMBERS (MUST HAVE PERIOD)
NPS	NOMINAL PIPE SIZE
NS	NEAR SIDE
NSP	NEW STANDARD PLAN
NTS	NOT TO SCALE

O

Oblr	OBLITERATE
OC	OVERCROSSING
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OG	ORIGINAL GROUND
OGAC	OPEN GRADED ASPHALT CONCRETE
OGFC	OPEN GRADED FRICTION COURSE
OH	OVERHEAD
OHWM	ORDINARY HIGH WATER MARK
O-O	OUT TO OUT
Opp	OPPOSITE
OSD	OVERSIDE DRAIN

P

P	PAGE
PAP	PERFORATED ALUMINUM PIPE
PB	PULL BOX
PC	POINT OF CURVATURE, PRECAST
PCC	POINT OF COMPOUND CURVE, PORTLAND CEMENT CONCRETE
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN
PCP	PERFORATED CONCRETE PIPE, PRESTRESSED CONCRETE PIPE
PCVC	POINT OF COMPOUND VERTICAL CURVE
PEC	PERMIT TO ENTER AND CONSTRUCT
Ped	PEDESTRIAN
Ped OC	PEDESTRIAN OVERCROSSING
Ped UC	PEDESTRIAN UNDERCROSSING
Perm Mtl	PERMEABLE MATERIAL

P continued

PG	PROFILE GRADE
PI	POINT OF INTERSECTION
PJP	PARTIAL JOINT PENETRATION
Pkwy	PARKWAY
℄,PL	PLATE
P/L	PROPERTY LINE
PM	POST MILE, TIME FROM NOON TO MIDNIGHT
PN	PAVING NOTCH
POC	POINT OF HORIZONTAL CURVE
POT	POINT OF TANGENT
POVC	POINT OF VERTICAL CURVE
PP	PIPE PILE, PLASTIC PIPE, POWER POLE
PPL	PREFORMED PERMEABLE LINER
PPP	PERFORATED PLASTIC PIPE
PRC	POINT OF REVERSE CURVE
PRF	PAVEMENT REINFORCING FABRIC
PRVC	POINT OF REVERSE VERTICAL CURVE
PS&E	PLANS, SPECIFICATIONS AND ESTIMATES
PS, P/S	PRESTRESSED
PSP	PERFORATED STEEL PIPE
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
Pvmt	PAVEMENT

Q

Qty	QUANTITY

R

R	RADIUS
R & D	REMOVE AND DISPOSE
R & S	REMOVE AND SALVAGE
R/C	RATE OF CHANGE
RCA	REINFORCED CONCRETE ARCH
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
RCPA	REINFORCED CONCRETE PIPE ARCH
Rd	ROAD
Reinf	REINFORCED, REINFORCEMENT, REINFORCING
Rel	RELOCATE
Repl	REPLACEMENT
Ret	RETAINING
Rev	REVISED, REVISION
Rdwy	ROADWAY
RHMA	RUBBERIZED HOT MIX ASPHALT
Riv	RIVER
RM	ROAD-MIXED
RP	RADIUS POINT, REFERENCE POINT
RR	RAILROAD
RSP	ROCK SLOPE PROTECTION, REVISED STANDARD PLAN
Rt	RIGHT
Rte	ROUTE
RW	REDWOOD, RETAINING WALL
R/W	RIGHT OF WAY
Rwy	RAILWAY

S

S	SOUTH, SUPPLEMENT
SAE	STRUCTURE APPROACH EMBANKMENT
Salv	SALVAGE
SAPP	STRUCTURAL ALUMINUM PLATE PIPE
SB	SOUTHBOUND
SC	SAND CUSHION
SCSP	SLOTTED CORRUGATED STEEL PIPE
SD	STORM DRAIN
Sec	SECOND, SECTION
Sep	SEPARATION
SG	SUBGRADE
Shld	SHOULDER
Sht	SHEET
Sim	SIMILAR
℄	STATION LINE
SM	SELECTED MATERIAL
Spec	SPECIAL, SPECIFICATIONS
SPP	SLOTTED PLASTIC PIPE
SS	SLOPE STAKE
SSBM	STRAP AND SADDLE BRACKET METHOD
SSD	STRUCTURAL SECTION DRAIN
SSPA	STRUCTURAL STEEL PLATE ARCH
SSPP	STRUCTURAL STEEL PLATE PIPE
SSPPA	STRUCTURAL STEEL PLATE PIPE ARCH
SSRP	STEEL SPIRAL RIB PIPE
St	STREET
Sta	STATION
STBB	SINGLE THRIE BEAM BARRIER
Std	STANDARD
Str	STRUCTURE
Surf	SURFACING
SW	SIDEWALK, SOUND WALL
Swr	SEWER
Sym	SYMMETRICAL
S4S	SURFACE 4 SIDES

T

T	SEMI-TANGENT
Tan	TANGENT
TBB	THRIE BEAM BARRIER
Tbr	TIMBER
TC	TOP OF CURB
TCB	TRAFFIC CONTROL BOX
TCE	TEMPORARY CONSTRUCTION EASEMENT
Tel	TELEPHONE
Temp	TEMPORARY
TG	TOP OF GRADE
Tot	TOTAL
TP	TELEPHONE POLE
TPB	TREATED PERMEABLE BASE
TPM	TREATED PERMEABLE MATERIAL
Trans	TRANSITION

T continued

TS	TRANSVERSE, TRAFFIC SIGNAL, TUBULAR STEEL
Typ	TYPICAL

U

UC	UNDERCROSSING
UD	UNDERDRAIN
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
UP	UNDERPASS

V

V	VALVE, DESIGN SPEED
Var	VARIABLE, VARIES
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
Vert	VERTICAL
Via	VIADUCT
Vol	VOLUME

W

W	WEST, WIDTH
WB	WESTBOUND
WH	WEEP HOLE
WM	WIRE MESH
WS	WATER SURFACE
WSP	WELDED STEEL PIPE
Wt	WEIGHT
WV	WATER VALVE
WW	WINGWALL
WWLOL	WINGWALL LAYOUT LINE

X

X Sec	CROSS SECTION
Xing	CROSSING

Y

Yr	YEAR
Yrs	YEARS

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But, Col, Gle	5, 20, 32, 162	Var	14	18

Grace M. Tsushima
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Grace M. Tsushima — No. C49814 — Exp. 9-30-14 — CIVIL — STATE OF CALIFORNIA

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TO ACCOMPANY PLANS DATED 4-1-14

UNIT OF MEASUREMENT SYMBOLS:

Some of the symbols used in the project plan quantity tables and in the Bid Item List are:

TABLE A

SYMBOL USED	DEFINITIONS
ACRE	ACRE
CF	CUBIC FOOT
CY	CUBIC YARD
EA	EACH
GAL	GALLON
LB	POUND
LF	LINEAR FOOT
SQFT	SQUARE FOOT
SQYD	SQUARE YARD
STA	100 FEET
TAB	TABLET
TON	2,000 POUNDS

Some of the symbols used in the plans other than in the project plan quantity tables are:

TABLE B

SYMBOL USED	DEFINITIONS
ksi	KIPS PER SQUARE INCH
ksf	KIPS PER SQUARE FOOT
psi	POUNDS PER SQUARE INCH
psf	POUNDS PER SQUARE FOOT
lb/ft^3, pcf	POUNDS PER CUBIC FOOT
tsf	TONS PER SQUARE FOOT
mph, MPH *	MILES PER HOUR
ø	NOMINAL DIAMETER
oz	OUNCE
lb	POUND
kip	1,000 POUNDS
cal	CALORIE
ft	FOOT OR FEET
gal	GALLON

* For use on a sign panel only

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ABBREVIATIONS (SHEET 2 OF 2)

NO SCALE

RSP A10B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A10B DATED MAY 20, 2011 - PAGE 2 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A10B

2010 REVISED STANDARD PLAN RSP A10B

6-7-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But, Col, Gle	5, 20, 32, 162	Var	15	18

Raymond Don Tsztoo
REGISTERED CIVIL ENGINEER

October 19, 2012
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Raymond Don Tsztoo
No. C37332
Exp. 6-30-14
CIVIL
STATE OF CALIFORNIA

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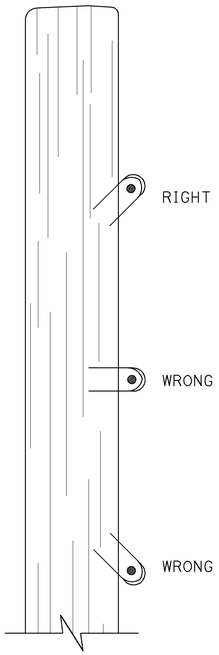
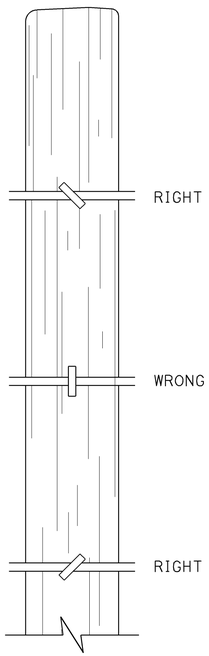
TO ACCOMPANY PLANS DATED 4-1-14

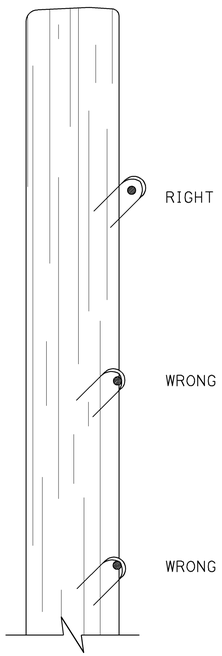
2010 REVISED STANDARD PLAN RSP A86D



DRIVE STAPLES AT ANGLE



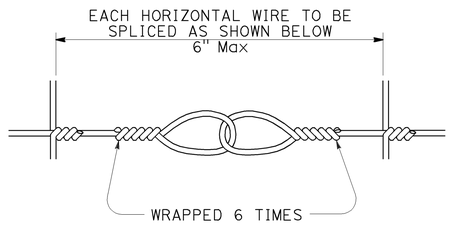
DO NOT DRIVE STAPLES PARALLEL TO SIDE OF POST



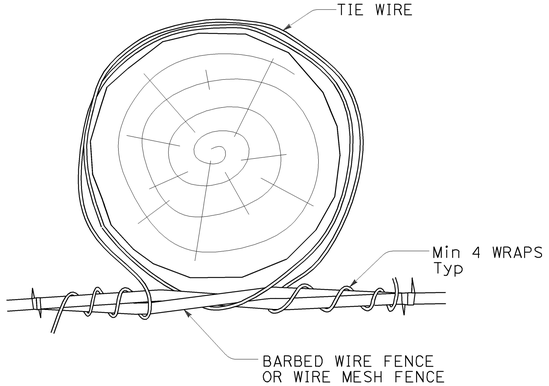
LEAVE WIRE LOOSE IN STAPLE

LINE POST STAPLING DETAILS

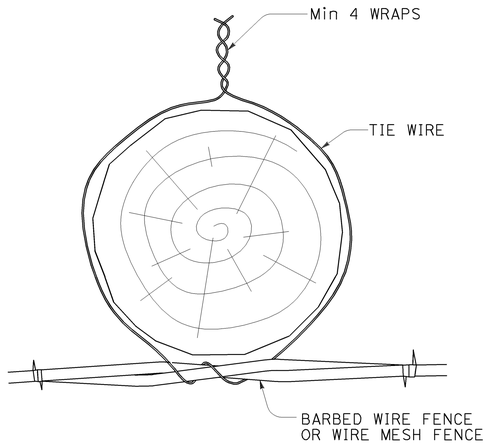
(Apply to rectangular/square and round posts)
Do not staple vertical wire in wire mesh.



SPLICE DETAIL FOR BARBED WIRE/WIRE MESH FENCE



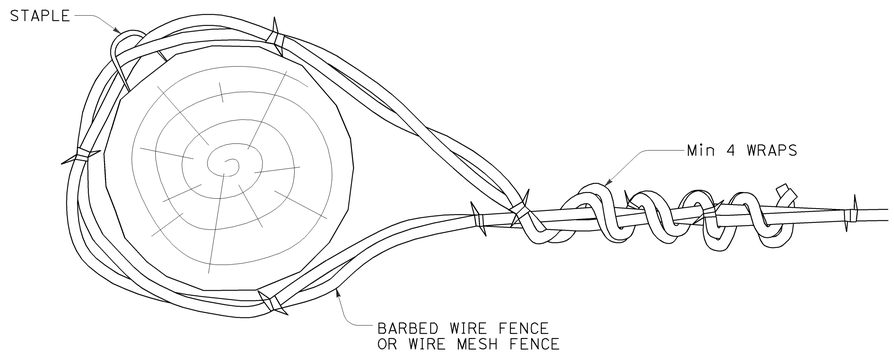
OPTION A



OPTION B

LINE POST WIRE TIE OPTION DETAILS

(Option details also apply to rectangular/square posts)



END, LATCH, PULL, AND CORNER POST DETAIL

(Also applies to rectangular/square posts)

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

BARBED WIRE AND WIRE MESH FENCE - MISCELLANEOUS DETAILS

NO SCALE

RSP A86D DATED OCTOBER 19, 2012 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A86D

10-9-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But, Col, Gle	5, 20, 32, 162	Var	16	18

REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Gurinderpal Bhullar
No. C48815
Exp. 9-30-14
CIVIL
STATE OF CALIFORNIA

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TO ACCOMPANY PLANS DATED 4-1-14

2010 REVISED STANDARD PLAN RSP T9

TABLE 1

TAPER LENGTH CRITERIA AND CHANNELIZING DEVICE SPACING

SPEED (S)	MINIMUM TAPER LENGTH * FOR WIDTH OF OFFSET 12 FEET (W)				MAXIMUM CHANNELIZING DEVICE SPACING		
					X	Y	Z **
	TANGENT 2L	MERGING L	SHIFTING L/2	SHOULDER L/3	TAPER	TANGENT	CONFLICT
mph	ft	ft	ft	ft	ft	ft	ft
20	160	80	40	27	20	40	10
25	250	125	63	42	25	50	12
30	360	180	90	60	30	60	15
35	490	245	123	82	35	70	17
40	640	320	160	107	40	80	20
45	1080	540	270	180	45	90	22
50	1200	600	300	200	50	100	25
55	1320	660	330	220	55	110	27
60	1440	720	360	240	60	120	30
65	1560	780	390	260	65	130	32
70	1680	840	420	280	70	140	35

* - For other offsets, use the following merging taper length formula for L:
For speed of 40 mph or less, $L = WS^2/60$
For speed of 45 mph or more, $L = WS$

Where: L = Taper length in feet
W = Width of offset in feet
S = Posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph

** - Use for taper and tangent sections where there are no pavement markings or where there is a conflict between existing pavement markings and channelizers (CA).

TABLE 2

LONGITUDINAL BUFFER SPACE AND FLAGGER STATION SPACING

SPEED *	Min D **	DOWNGRADE Min D ***		
		-3%	-6%	-9%
mph	ft	ft	ft	ft
20	115	116	120	126
25	155	158	165	173
30	200	205	215	227
35	250	257	271	287
40	305	315	333	354
45	360	378	400	427
50	425	446	474	507
55	495	520	553	593
60	570	598	638	686
65	645	682	728	785
70	730	771	825	891

* - Speed is posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph

** - Longitudinal buffer space or flagger station spacing

*** - Use on sustained downgrade steeper than -3 percent and longer than 1 mile.

TABLE 3

ADVANCE WARNING SIGN SPACING

ROAD TYPE	DISTANCE BETWEEN SIGNS *		
	A	B	C
	ft	ft	ft
URBAN - 25 mph OR LESS	100	100	100
URBAN - MORE THAN 25 mph TO 40 mph	250	250	250
URBAN - MORE THAN 40 mph	350	350	350
RURAL	500	500	500
EXPRESSWAY / FREEWAY	1000	1500	2640

* - The distances are approximate, are intended for guidance purposes only, and should be applied with engineering judgment. These distances should be adjusted by the Engineer for field conditions, if necessary, by increasing or decreasing the recommmended distances.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM TABLES FOR LANE AND RAMP CLOSURES

NO SCALE

RSP T9 DATED JULY 19, 2013 SUPERSEDES RSP T9 DATED APRIL 19, 2013 THAT SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T9

4-30-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But, Col, Gle	5, 20, 32, 162	Var	17	18

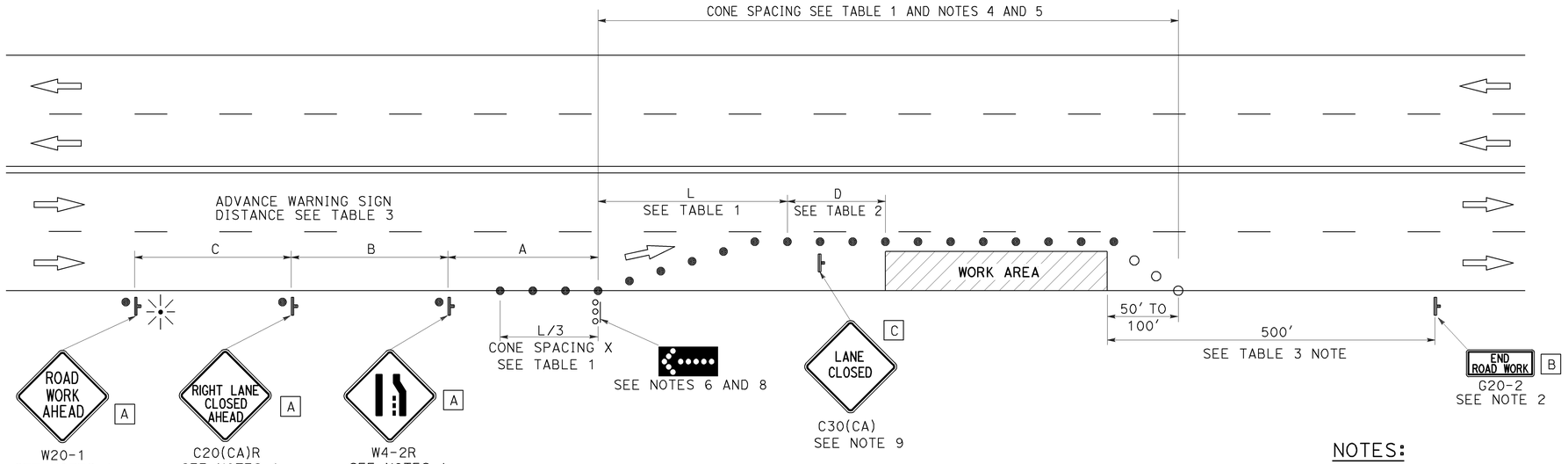
REGISTERED CIVIL ENGINEER

April 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Gurinderpa Bhullar
No. C48815
Exp. 9-30-14
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.

TO ACCOMPANY PLANS DATED 4-1-14



TYPICAL LANE CLOSURE

NOTES:

1. Each advance warning sign shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
2. A G20-2 "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious, or ends within a larger project's limits.
3. If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a C20(CA) sign for the first advance warning sign.
4. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
5. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
6. Flashing arrow sign shall be either Type I or Type II.
7. For approach speeds over 50 mph, use the "Traffic Control System for Lane Closure On Freeways And Expressways" plan for lane closure details and requirements.
8. A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at the top of crest vertical curve or on a horizontal curve.
9. Place a C30(CA) sign every 2000' throughout length of lane closure.
10. Median lane closures shall conform to the details as shown except that C20(CA)L and W4-2L signs shall be used.
11. At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closure unless, otherwise directed by the Engineer.

NOTES:

See Revised Standard Plan RSP T9 for tables.

Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as approriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on fluorescent orange background.

California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

LEGEND

- TRAFFIC CONE
- TRAFFIC CONE (OPTIONAL TAPER)
- TEMPORARY TRAFFIC CONTROL SIGN
- FLASHING ARROW SIGN (FAS)
- FAS SUPPORT OR TRAILER
- PORTABLE FLASHING BEACON

SIGN PANEL SIZE (Min)

A	48" x 48"
B	36" x 18"
C	30" x 30"

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON MULTILANE CONVENTIONAL HIGHWAYS

NO SCALE

RSP T11 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T11 DATED MAY 20, 2011 - PAGE 239 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T11

2010 REVISED STANDARD PLAN RSP T11

4-2-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But, Col, Gle	5, 20, 32, 162	Var	18	18

REGISTERED CIVIL ENGINEER

April 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Gurinderpal Bhullar
No. C48815
Exp. 9-30-14
CIVIL
STATE OF CALIFORNIA

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TO ACCOMPANY PLANS DATED 4-1-14

2010 REVISED STANDARD PLAN RSP T13

NOTES:

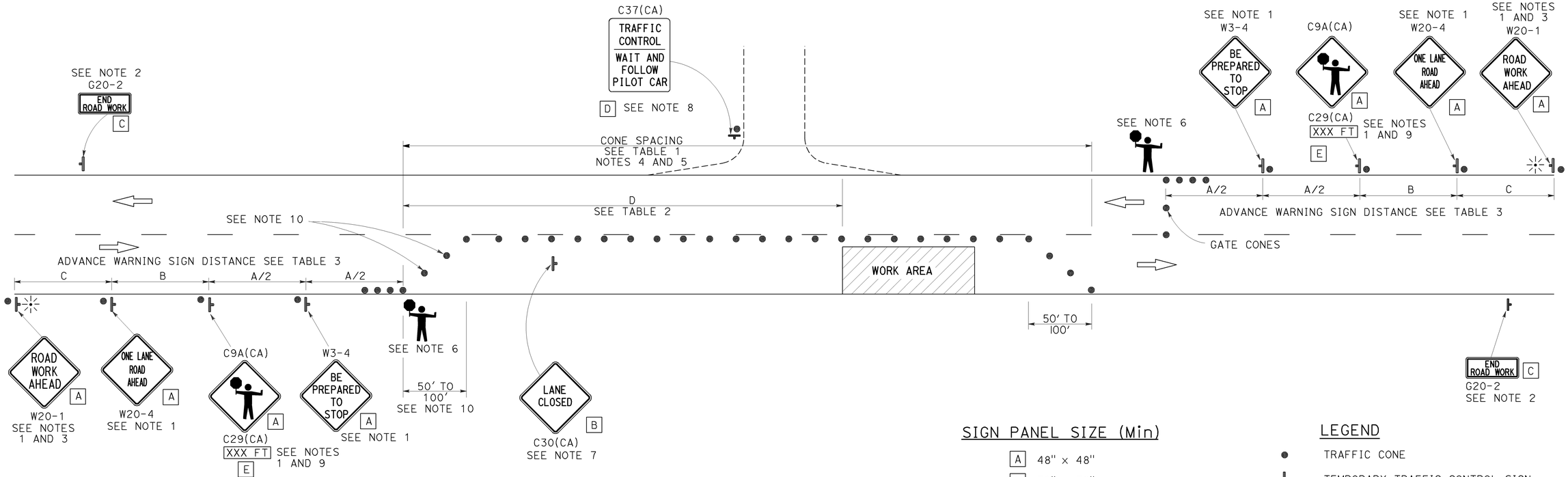
See Revised Standard Plan RSP T9 for tables.

Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as approriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on fluorescent orange background.

California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL



SIGN PANEL SIZE (Min)

A	48" × 48"
B	30" × 30"
C	36" × 18"
D	36" × 42"
E	20" × 7"

LEGEND

- TRAFFIC CONE
- TEMPORARY TRAFFIC CONTROL SIGN
- PORTABLE FLASHING BEACON
- FLAGGER

NOTES:

1. Each advance warning sign in each direction of travel shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
2. A G20-2 "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane control unless the end of work area is obvious, or ends within a larger project's limits.
3. If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a W20-4 sign for the first advance warning sign.
4. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
5. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
6. Additional advance flaggers may be required. Flagger should stand in a conspicuous place, be visible to approaching traffic as well as approaching vehicles after the first vehicle has stopped. During the hours of darkness, the flagging-station and flagger shall be illuminated and clearly visible to approaching traffic. The illumination footprint of the lighting on the ground shall be at least 20' in diameter. Place a minimum of four cones at 50' intervals in advance of flagger station as shown.
7. Place C30(CA) "LANE CLOSED" sign at 500' to 1000' intervals throughout extended work areas. They are optional if the work area is visible from the flagger station.
8. When a pilot car is used, place a C37(CA) "TRAFFIC CONTROL-WAIT AND FOLLOW PILOT CAR" sign with black legend on white background at all intersections, driveways and alleys without a flagger within traffic control area. Signs shall be clean and visible at all times. Where traffic can not be effectively self-regulated, at least one flagger shall be used at each intersection within traffic control area.
9. An optional C29(CA) sign may be placed below the C9A(CA) sign.
10. Either traffic cones or barricades shall be placed on the taper. Barricades shall be Type I, II, or III.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON TWO LANE CONVENTIONAL HIGHWAYS

NO SCALE

RSP T13 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T13 DATED MAY 20, 2011 - PAGE 241 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T13

4-2-13