Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	15,76	R46.1/R47.3, R16.7/R17.7	14	477

REGISTERED CIVIL ENGINEER 01-10-12 DATE

4-16-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MOHAMAD KHATIB No. C63411 Exp. 09-30-12 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.

1 REVISED PER ADDENDUM No. 1 DATED JUNE 29, 2012

NOTE:

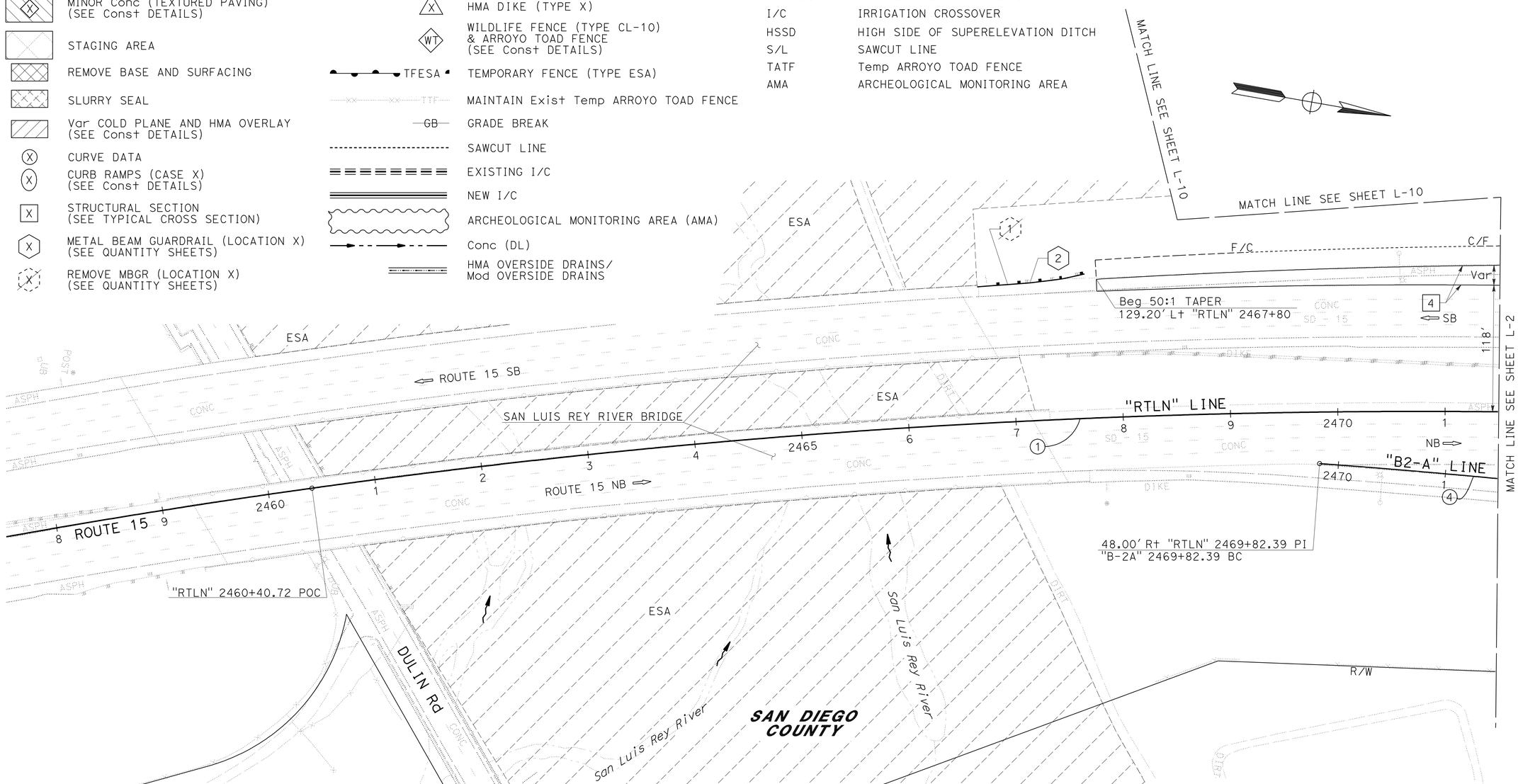
1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. FOR IRRIGATION CROSSOVER STATIONS, SEE SUMMARY OF QUANTITIES.
3. FOR HORIZONTAL COORDINATE DATUM, SEE PROJECT CONTROL SHEET.
4. FOR LOCATION OF TREES TO BE PROTECTED IN PLACE, SEE CONSTRUCTION DETAILS.
5. FOR REPAIR SPALLED CONCRETE WORK, SEE CONSTRUCTION DETAILS AND SUMMARY OF QUANTITIES.

LEGEND:

- ESA — ENVIRONMENTALLY SENSITIVE AREA
- X — MINOR Conc (TEXTURED PAVING) (SEE Const DETAILS)
- STAGING AREA
- REMOVE BASE AND SURFACING
- SLURRY SEAL
- Var COLD PLANE AND HMA OVERLAY (SEE Const DETAILS)
- X — CURVE DATA
- X — CURB RAMPS (CASE X) (SEE Const DETAILS)
- X — STRUCTURAL SECTION (SEE TYPICAL CROSS SECTION)
- X — METAL BEAM GUARDRAIL (LOCATION X) (SEE QUANTITY SHEETS)
- X — REMOVE MBGR (LOCATION X) (SEE QUANTITY SHEETS)
- X — CRASH CUSHION (TYPE REACT 9CBB/4CBB)-LOCATION (X) (SEE QUANTITY SHEETS)
- X — HMA DIKE (TYPE X)
- WT — WILDLIFE FENCE (TYPE CL-10) & ARROYO TOAD FENCE (SEE Const DETAILS)
- TFESA — TEMPORARY FENCE (TYPE ESA)
- TTF — MAINTAIN Exist Temp ARROYO TOAD FENCE
- GB — GRADE BREAK
- SAWCUT LINE
- EXISTING I/C
- NEW I/C
- ARCHEOLOGICAL MONITORING AREA (AMA)
- Conc (DL)
- HMA OVERSIDE DRAINS/ Mod OVERSIDE DRAINS

ABBREVIATIONS:

HMA	HOT MIX ASPHALT
MVPX	MAINTENANCE VEHICLE PULLOUT (TYPE X) (SEE CONSTRUCTION DETAILS)
CHP	CALIFORNIA HIGHWAY PATROL
HMAD# (X)	HMA DIKE # (TYPE X)
CCURB# (X)	Conc CURB # (TYPE X)
CB# (X)	Conc BARRIER # (TYPE X)
I/C	IRRIGATION CROSSOVER
HSSD	HIGH SIDE OF SUPERELEVATION DITCH
S/L	SAWCUT LINE
TATF	Temp ARROYO TOAD FENCE
AMA	ARCHEOLOGICAL MONITORING AREA



CURVE DATA

No.	R	Δ	T	L
1	7500.08'	28°53'12"	1931.74'	3781.30'
4	7500.00'	2°30'05"	163.74'	327.43'

LAYOUT

SCALE: 1" = 50'

L-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans PROJECT DEVELOPMENT

FUNCTIONAL SUPERVISOR: CARL SAVAGE
CALCULATED-DESIGNED BY: MOHAMAD KHATIB
CHECKED BY: WAMEEDH TOZY
REVISED BY
DATE REVISED

LAST REVISION 05-25-12 | DATE PLOTTED => 28-JUN-2012 | TIME PLOTTED => 11:54

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	15,76	R46.1/R47.3, R16.7/R17.7	15	477

REGISTERED CIVIL ENGINEER 01-10-12 DATE

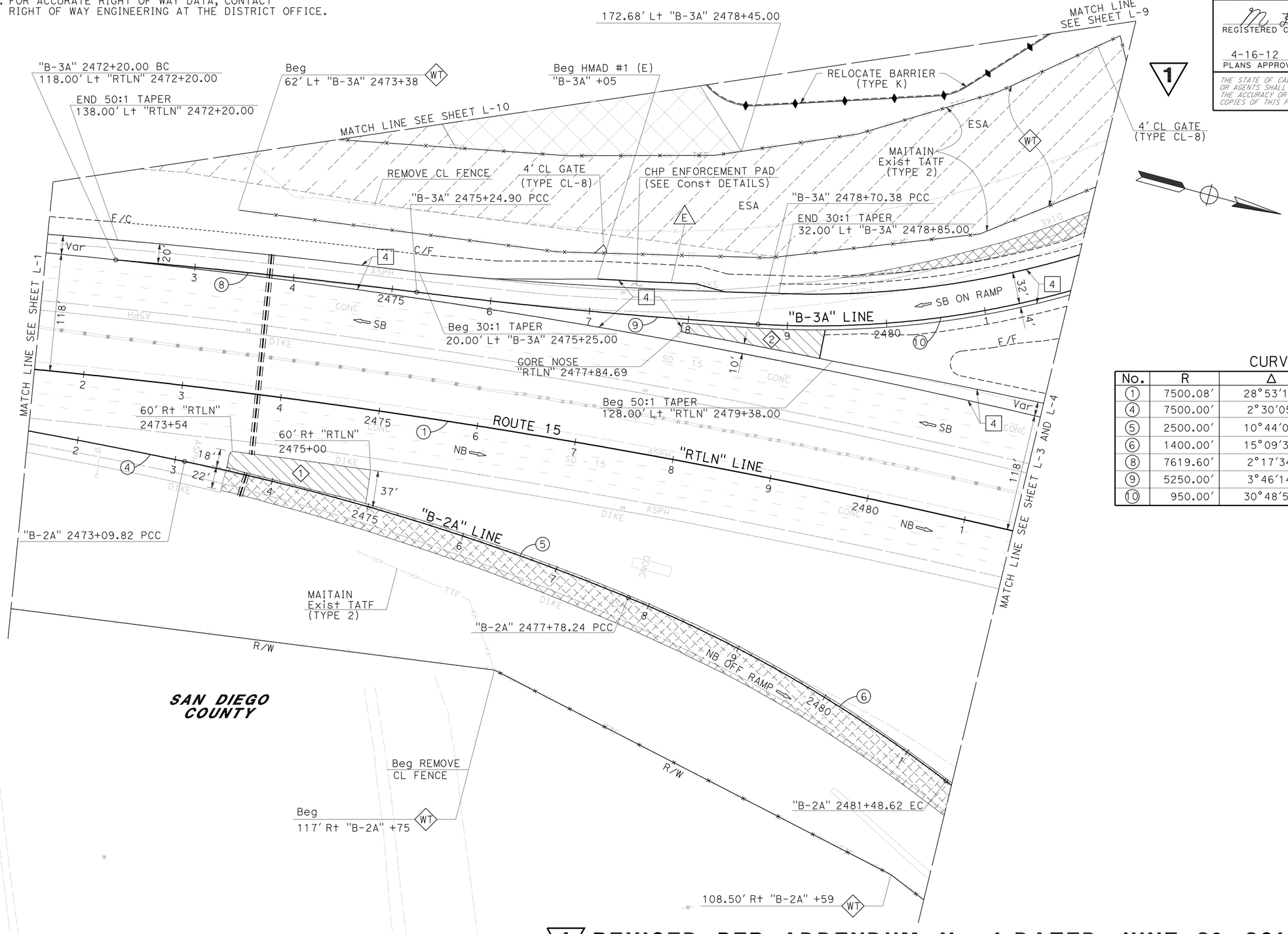
4-16-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MOHAMAD KHATIB No. C63411 Exp. 09-30-12 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.

NOTE:

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



CURVE DATA

No.	R	Δ	T	L
1	7500.08'	28°53'12"	1931.74'	3781.30'
4	7500.00'	2°30'05"	163.74'	327.43'
5	2500.00'	10°44'07"	234.90'	468.42'
6	1400.00'	15°09'30"	186.28'	370.39'
8	7619.60'	2°17'34"	152.47'	304.90'
9	5250.00'	3°46'14"	172.80'	345.48'
10	950.00'	30°48'55"	261.81'	510.94'

1 REVISED PER ADDENDUM No. 1 DATED JUNE 29, 2012

LAYOUT

SCALE: 1" = 50'

L-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans PROJECT DEVELOPMENT

FUNCTIONAL SUPERVISOR: CARL SAVAGE
CALCULATED-DESIGNED BY: MOHAMAD KHATIB
CHECKED BY: WAMEEDH TOZY
REVISED BY
DATE REVISED

LAST REVISION 01-18-12 | DATE PLOTTED => 28-JUN-2012 | TIME PLOTTED => 11:54

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	15,76	R46.1/R47.3, R16.7/R17.7	17	477

REGISTERED CIVIL ENGINEER 01-10-12 DATE

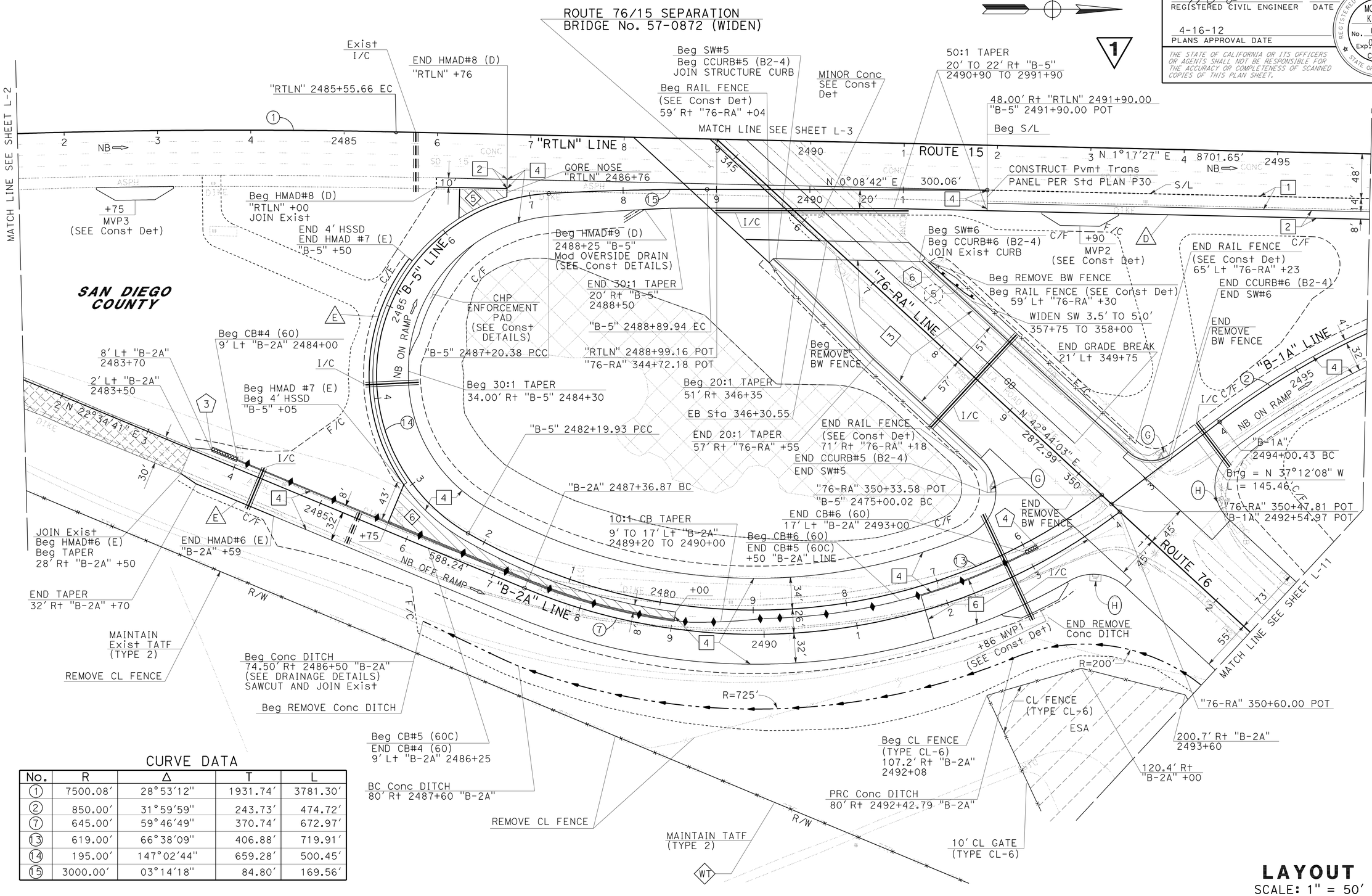
4-16-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MOHAMAD KHATIB No. C63411 Exp. 09-30-12 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.

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

1 REVISED PER ADDENDUM No. 1 DATED JUNE 29, 2012



CURVE DATA

No.	R	Δ	T	L
1	7500.08'	28°53'12"	1931.74'	3781.30'
2	850.00'	31°59'59"	243.73'	474.72'
7	645.00'	59°46'49"	370.74'	672.97'
13	619.00'	66°38'09"	406.88'	719.91'
14	195.00'	147°02'44"	659.28'	500.45'
15	3000.00'	03°14'18"	84.80'	169.56'

LAYOUT
SCALE: 1" = 50'

L-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans PROJECT DEVELOPMENT
FUNCTIONAL SUPERVISOR: CARL SAVAGE
CALCULATED-DESIGNED BY: MOHAMAD KHATIB
CHECKED BY: WAMEEDH TOZY
REVISED BY / DATE REVISED

LAST REVISION 05-25-12 | DATE PLOTTED => 28-JUN-2012 | TIME PLOTTED => 11:54

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	15,76	R46.1/R47.3, R16.7/R17.7	18	477

REGISTERED CIVIL ENGINEER 01-10-12 DATE

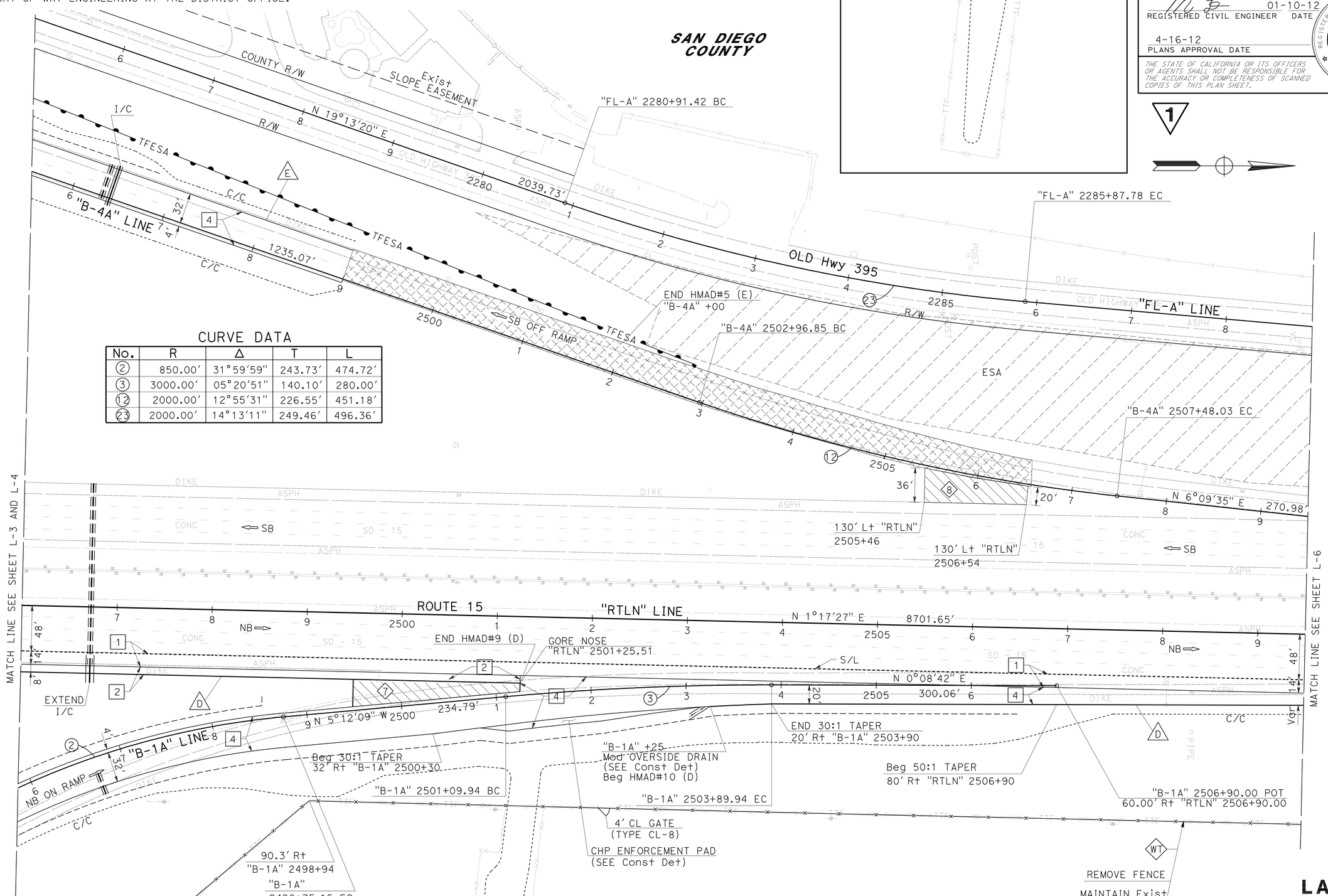
4-16-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MOHAMAD KHATIB No. C63411 Exp. 09-30-12 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.

NOTE:

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



CURVE DATA

No.	R	Δ	T	L
2	850.00'	31°59'59"	243.73'	474.72'
3	3000.00'	05°20'51"	140.10'	280.00'
12	2000.00'	12°55'31"	226.55'	451.18'
23	2000.00'	14°13'11"	249.46'	496.36'

1 **REVISED PER ADDENDUM No. 1 DATED JUNE 29, 2012**

LAYOUT

SCALE: 1" = 50'

L-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans PROJECT DEVELOPMENT

FUNCTIONAL SUPERVISOR: CARL SAVAGE
CALCULATED-DESIGNED BY: MOHAMAD KHATIB
CHECKED BY: WAMEEDH TOZY
REVISED BY
DATE REVISED

LAST REVISION 05-25-12 | DATE PLOTTED => 28-JUN-2012 | TIME PLOTTED => 11:54

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	15,76	R46.1/R47.3, R16.7/R17.7	20	477

REGISTERED CIVIL ENGINEER 01-10-12 DATE

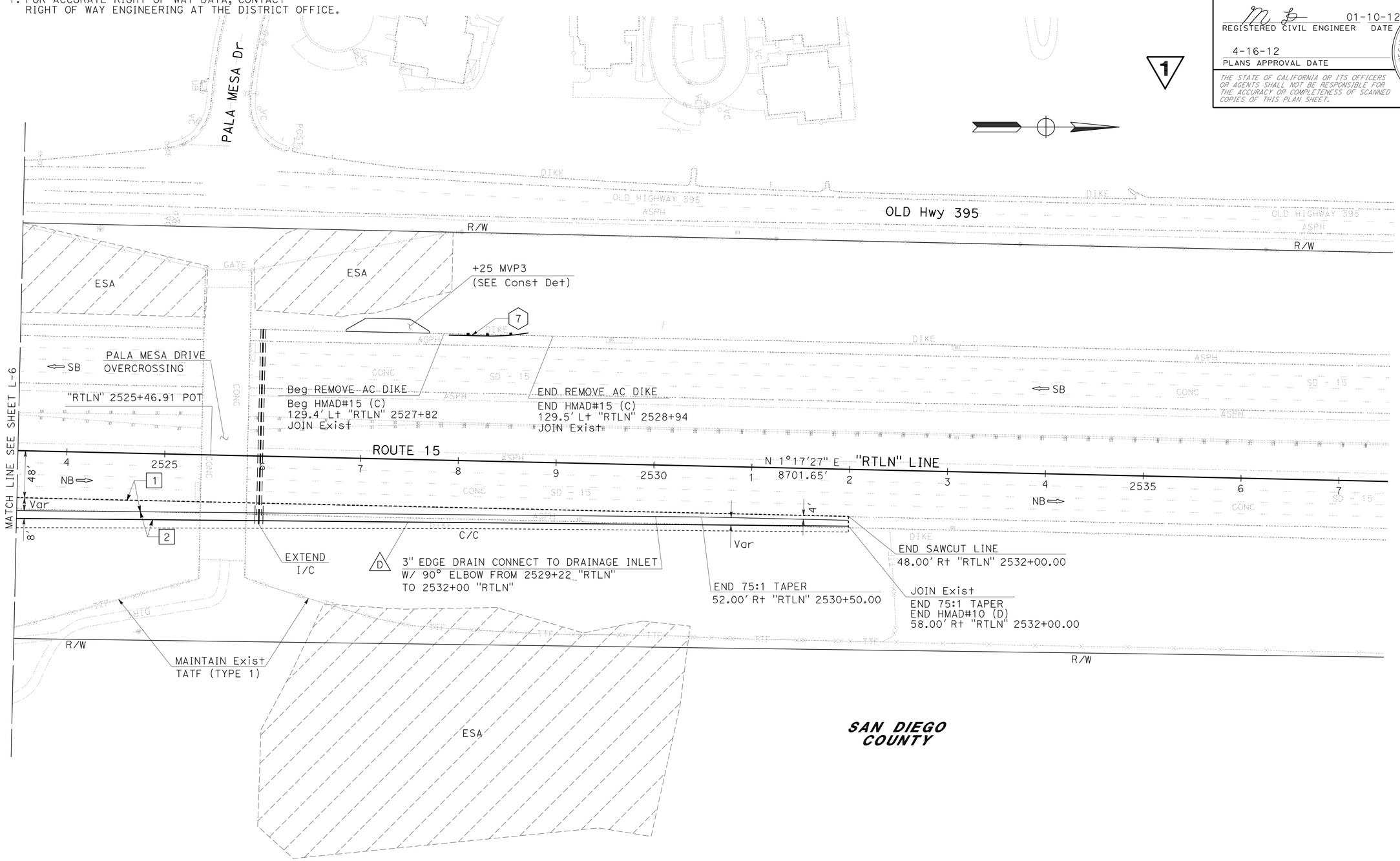
4-16-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MOHAMAD KHATIB No. C63411 Exp. 09-30-12 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.

NOTE:

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



1 REVISED PER ADDENDUM No. 1 DATED JUNE 29, 2012

LAYOUT

SCALE: 1" = 50'

L-7

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® **PROJECT DEVELOPMENT**

FUNCTIONAL SUPERVISOR: CARL SAVAGE
CALCULATED-DESIGNED BY: MOHAMAD KHATIB
CHECKED BY: WAMEEDH TOZY
REVISED BY
DATE REVISED

LAST REVISION 05-25-12
DATE PLOTTED => 28-JUN-2012
TIME PLOTTED => 11:55

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	15,76	R46.1/R47.3, R16.7/R17.7	24	477

REGISTERED CIVIL ENGINEER 01-10-12 DATE

4-16-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MOHAMAD KHATIB No. C63411 Exp. 09-30-12 CIVIL STATE OF CALIFORNIA

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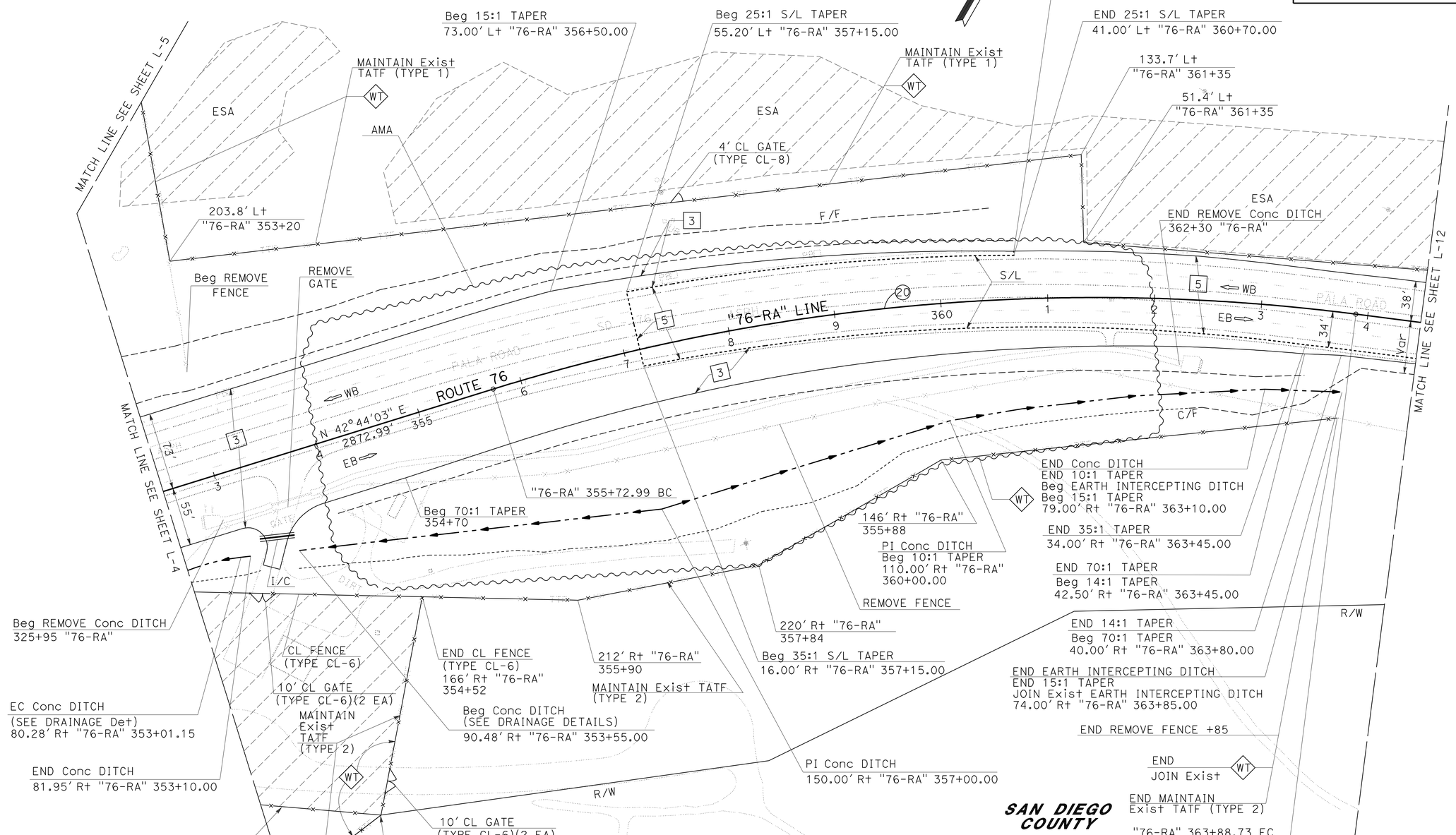
1 REVISED PER ADDENDUM No. 1 DATED JUNE 29, 2012

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

CURVE DATA

No.	R	Δ	T	L
20	1900.00′	24°35′57″	414.25′	815.74′



LAYOUT

SCALE: 1" = 50′

L-11

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® PROJECT DEVELOPMENT

FUNCTIONAL SUPERVISOR: CARL SAVAGE
CALCULATED-DESIGNED BY: MOHAMAD KHATIB
CHECKED BY: WAMEEDH TOZY
REVISED BY
DATE REVISED

LAST REVISION 05-25-12
DATE PLOTTED => 28-JUN-2012
TIME PLOTTED => 11:55

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

1 REVISED PER ADDENDUM No. 1 DATED JUNE 29, 2012

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	15,76	R46.1/R47.3, R16.7/R17.7	25	477

REGISTERED CIVIL ENGINEER 01-10-12 DATE

4-16-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MOHAMAD KHATIB No. C63411 Exp. 09-30-12 CIVIL STATE OF CALIFORNIA

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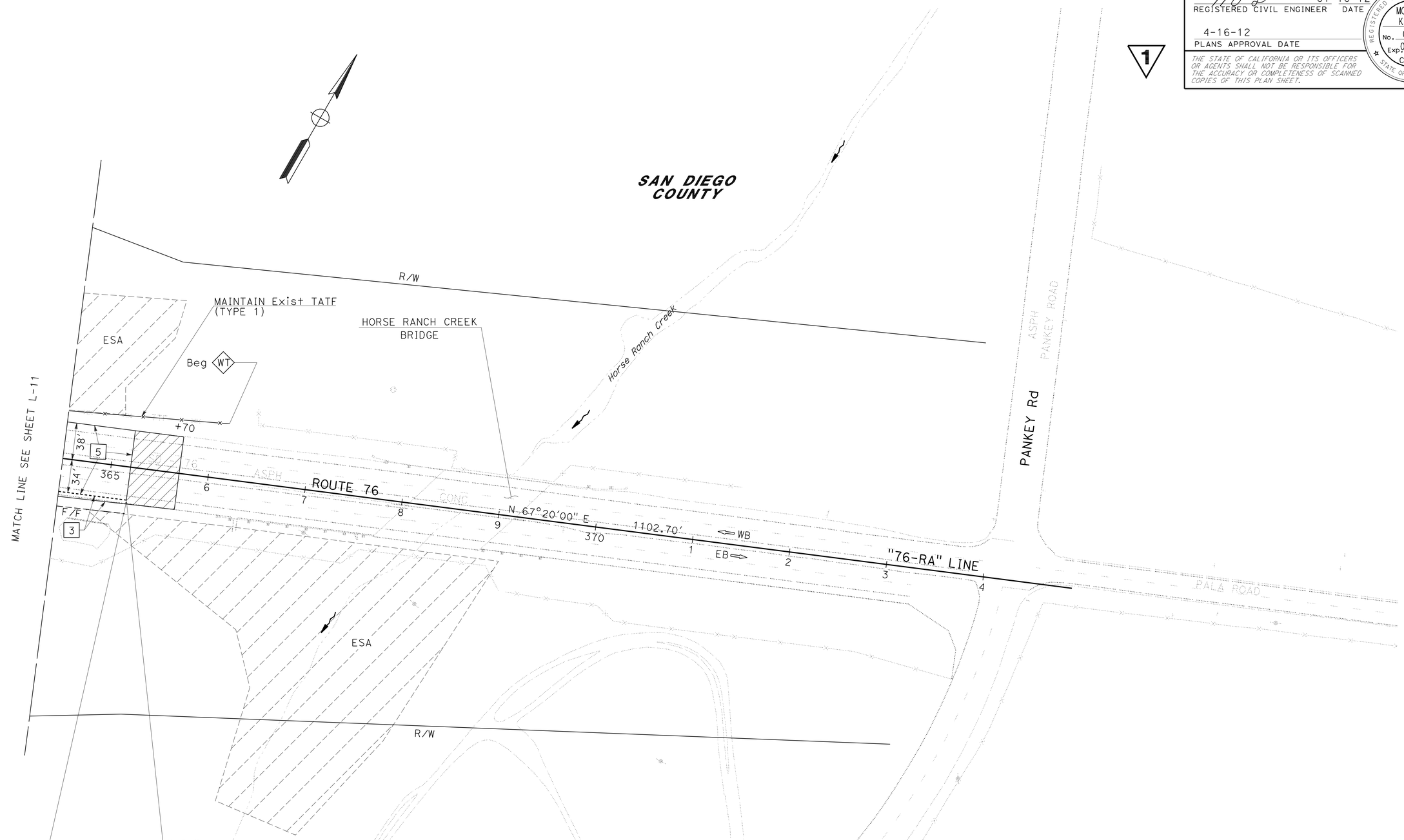
1



LAYOUT

SCALE: 1" = 50'

L-12

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans PROJECT DEVELOPMENT

FUNCTIONAL SUPERVISOR: CARL SAVAGE
CALCULATED-DESIGNED BY: MOHAMAD KHATIB
CHECKED BY: WAMEEDH TOZY
REVISED BY
DATE REVISED

LAST REVISION 05-25-12
DATE PLOTTED => 28-JUN-2012
TIME PLOTTED => 11:55

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	15,76	R46.1/R47.3, R16.7/R17.7	87	477

REGISTERED CIVIL ENGINEER 03-14-12 DATE

4-16-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JENNY YAN No. C62092 Exp. 09-30-13 CIVIL STATE OF CALIFORNIA

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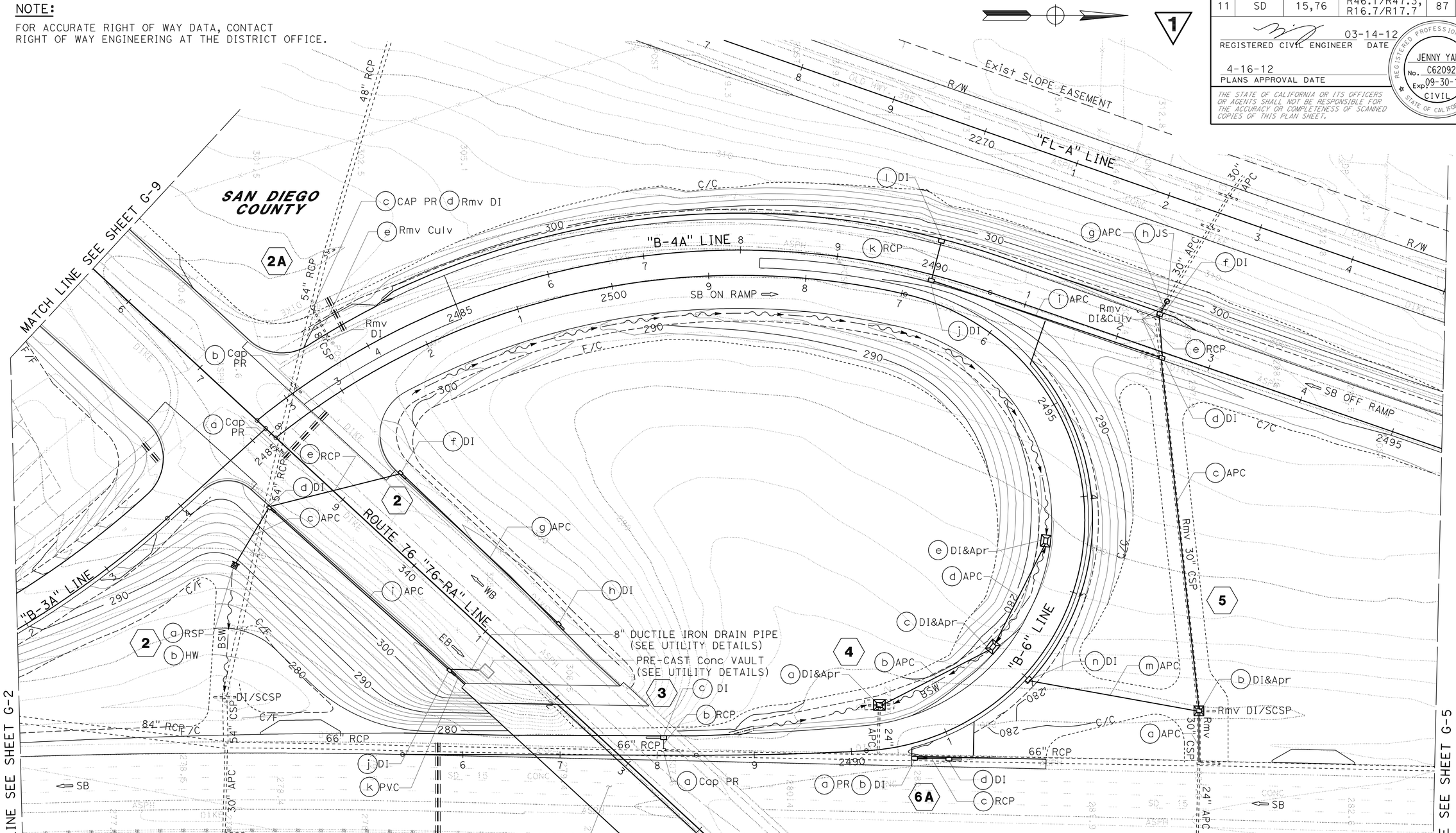
NOTE:

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



1 REVISED PER ADDENDUM No. 1 DATED JUNE 29, 2012

CONTOUR GRADING AND DRAINAGE PLAN

APPROVED FOR CONTOUR GRADING AND DRAINAGE WORK ONLY

SCALE: 1" = 50'

G-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans PROJECT DEVELOPMENT

FUNCTIONAL SUPERVISOR: CARL SAVAGE
CALCULATED-DESIGNED BY: JENNY YAN
CHECKED BY: MOHAMAD KHATIB
REVISED BY
DATE REVISED

LAST REVISION 05-22-12
DATE PLOTTED => 28-JUN-2012
TIME PLOTTED => 11:55

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	15,76	R46.1/R47.3, R16.7/R17.7	111	477

REGISTERED CIVIL ENGINEER 01-17-12 DATE

4-16-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JENNY YAN No. C62092 Exp. 09-30-13 CIVIL STATE OF CALIFORNIA

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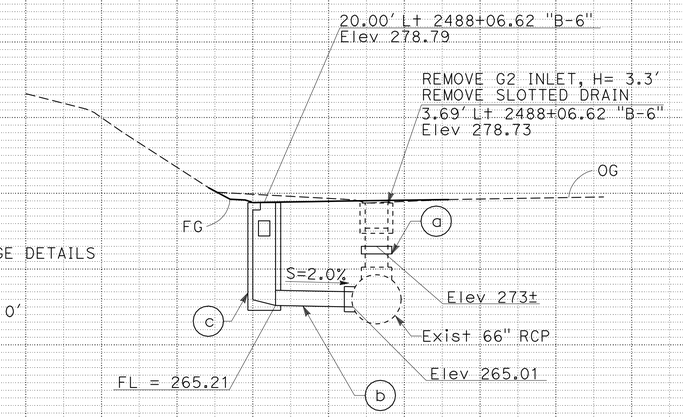
1

(a) CAP 36" Conc PIPE RISER, SEE DRAINAGE DETAILS

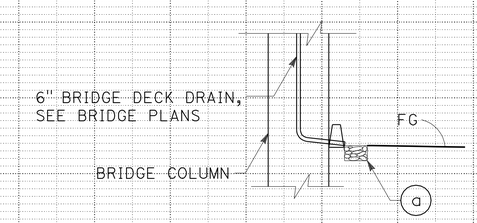
(b) 24" RCP X 10.2' w/ TYPE J-1 COLLAR, SEE DRAINAGE DETAILS

(c) G-2 INLET W/24-12 GRATE, H=13.6'
W/ 0.6 PERCENT PRESLOPED GRATE LINE DRAIN, L=10'

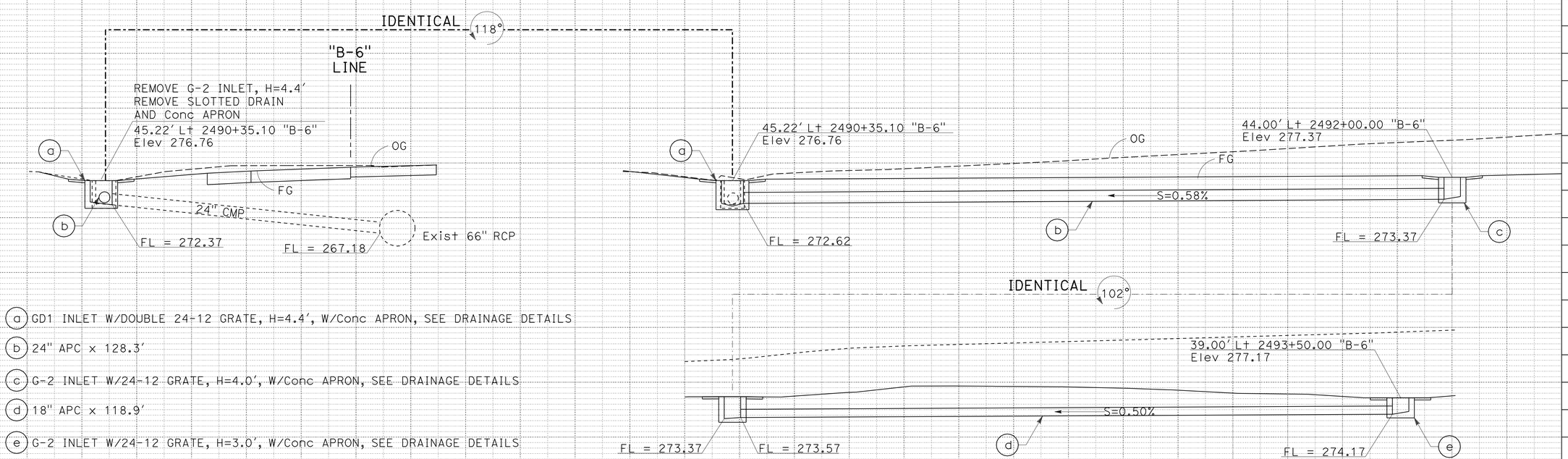


DRAINAGE SYSTEM No. 3

(a) RSP, SEE DRAINAGE DETAILS



DRAINAGE SYSTEM No. 3A



(a) GD1 INLET W/DOUBLE 24-12 GRATE, H=4.4', W/Conc APRON, SEE DRAINAGE DETAILS

(b) 24" APC x 128.3'

(c) G-2 INLET W/24-12 GRATE, H=4.0', W/Conc APRON, SEE DRAINAGE DETAILS

(d) 18" APC x 118.9'

(e) G-2 INLET W/24-12 GRATE, H=3.0', W/Conc APRON, SEE DRAINAGE DETAILS

DRAINAGE SYSTEM No. 4

1 REVISED PER ADDENDUM No. 1 DATED JUNE 29, 2012

DRAINAGE PROFILES

SCALE: Horiz 1" = 10'
Vert 1" = 10'

DP-4

REVISED BY | DATE REVISED
JENNY YAN | JEFF BALUYUT
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR | CARL SAVAGE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans PROJECT DEVELOPMENT

LAST REVISION 05-22-12
DATE PLOTTED => 28-JUN-2012
TIME PLOTTED => 11:55

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	15,76	R46.1/R47.3, R16.7/R17.7	120	477

REGISTERED CIVIL ENGINEER 01-17-12 DATE

4-16-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JENNY YAN No. C62092 Exp. 09-30-13 CIVIL STATE OF CALIFORNIA

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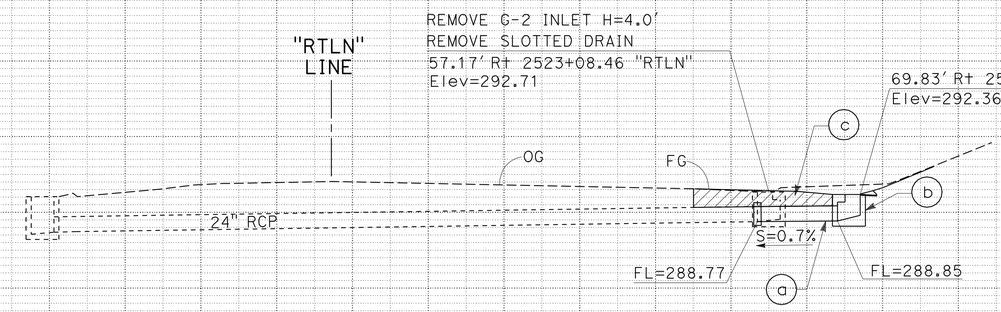
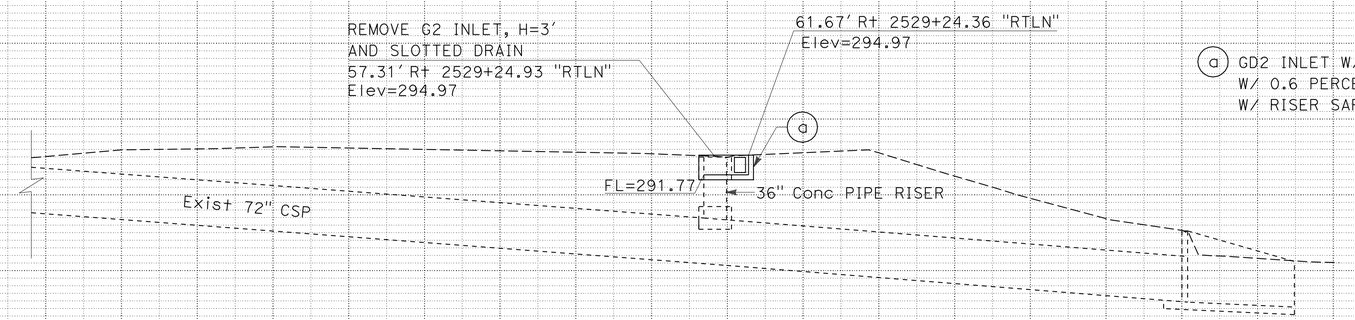
1



(a) 24" RCP x 10.6' W/ TYPE L-2 COLLAR, SEE DRAINAGE DETAILS
(b) G-2 INLET W/24-12 GRATE, H=3.5', W/0.6% PRESLOPED GLD, L=15'
(c) CULVERT ENCASE, SEE DRAINAGE DETAILS

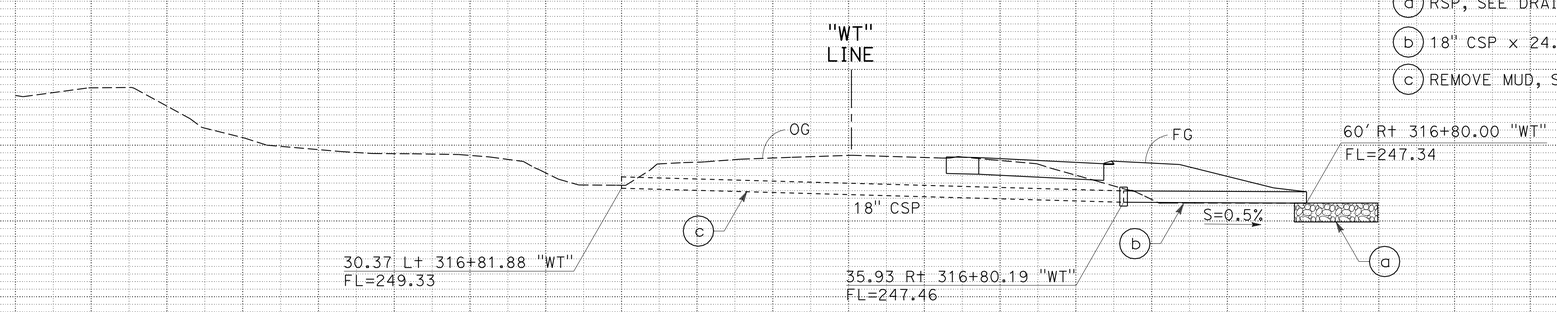
DRAINAGE SYSTEM No. 17



(a) GD2 INLET W/DOUBLE 24-12 GRATE, H=3.2', SEE DRAINAGE DETAILS W/ 0.6 PERCENT PRESLOPED GLD, L=15' W/ RISER SAFETY CAGE, SEE Std PLAN D93B

DRAINAGE SYSTEM No. 18

(a) RSP, SEE DRAINAGE DETAILS
(b) 18" CSP x 24.1' w/ TYPE L-2 COLLAR, SEE DRAINAGE DETAILS
(c) REMOVE MUD, SAND AND DEBRIS (IN CULVERT), L=66'



DRAINAGE SYSTEM No. 19

1 REVISED PER ADDENDUM No. 1 DATED JUNE 29, 2012

DRAINAGE PROFILES

SCALE: Horiz 1" = 10'
Vert 1" = 10'

DP-13

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans PROJECT DEVELOPMENT

FUNCTIONAL SUPERVISOR: CARL SAVAGE
CALCULATED-DESIGNED BY: JENNY YAN
CHECKED BY: JEFF BALUYUT
REVISED BY / DATE REVISED

LAST REVISION 05-22-12 DATE PLOTTED => 28-JUN-2012 TIME PLOTTED => 11:55

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	15,76	R46.1/R47.3, R16.7/R17.7	129	477

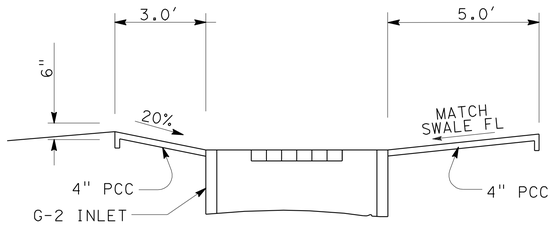
REGISTERED CIVIL ENGINEER 01-17-12 DATE

4-16-12
PLANS APPROVAL DATE

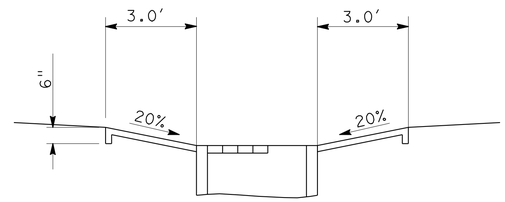
REGISTERED PROFESSIONAL ENGINEER JENNY YAN No. C62092 Exp. 09-30-13 CIVIL STATE OF CALIFORNIA

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.

1

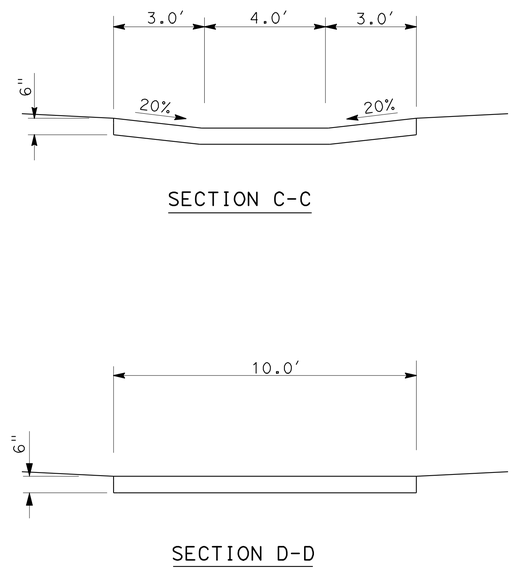


SECTION A-A

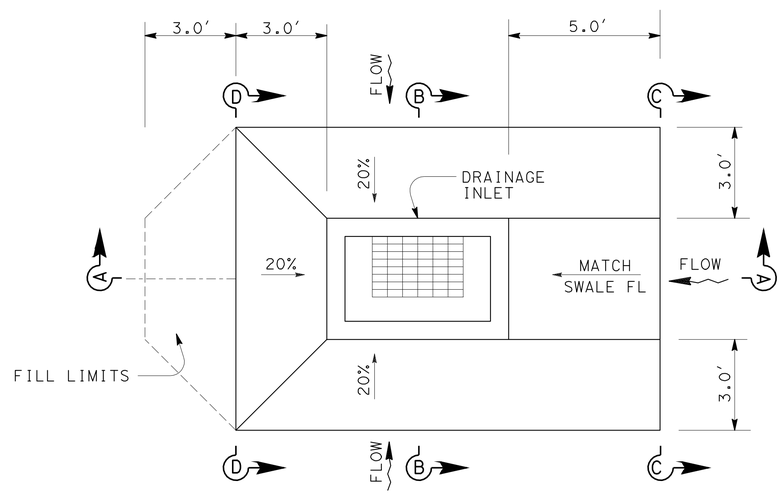


SECTION B-B

SECTION C-C



SECTION D-D

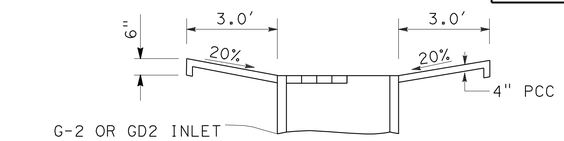


PLAN

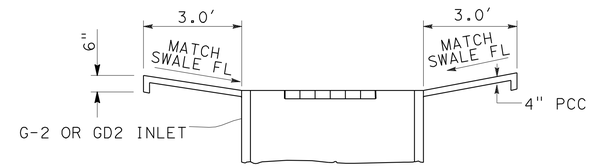
Conc APRON w/ DRAINAGE INLET

ON GRADE

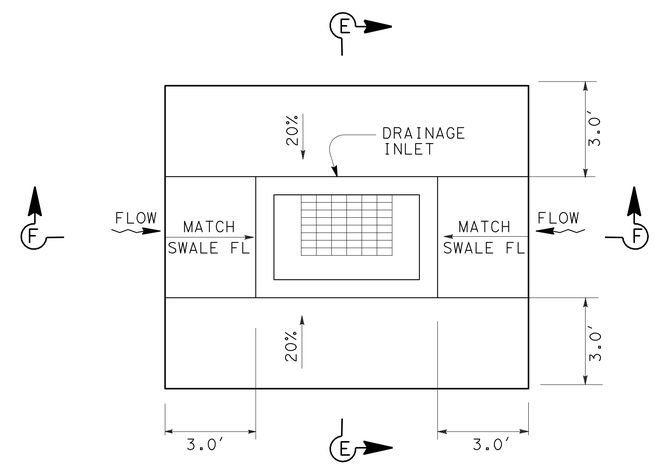
4 c 6 j 14 h 14 f



SECTION E-E



SECTION F-F



PLAN

Conc APRON w/ DRAINAGE INLET

IN SAG

4 a 4 e 5 b 6 b

6 h 6 f 14 d

DRAINAGE DETAILS

NO SCALE

DD-5

1 **REVISED PER ADDENDUM No. 1 DATED JUNE 29, 2012**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans PROJECT DEVELOPMENT

FUNCTIONAL SUPERVISOR: CARL SAVAGE
CALCULATED-DESIGNED BY: JENNY YAN
CHECKED BY: JEFF BALUYUT
REVISED BY
DATE REVISED

LAST REVISION 05-22-12
DATE PLOTTED => 28-JUN-2012
TIME PLOTTED => 11:55

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	15,76	R46.1/R47.3, R16.7/R17.7	136	477

REGISTERED CIVIL ENGINEER 01-17-12 DATE

4-16-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JENNY YAN No. C62092 Exp. 09-30-13 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.

1

APC ALLOWABLE PIPE MATERIAL (18" - 36" Dia)

TYPE S CORRUGATED POLYETHYLENE PIPE OR
STEEL SPIRAL RIB PIPES (SSRP) WITH POLYMETRIC SHEET COATING AND POLYMERIZED ASPHALT INVERT OR
COMPOSITE STEEL SPIRAL RIB PIPES (CSSRP) WITH POLYMETRIC SHEET COATING AND POLYMERIZED ASPHALT INVERT
OR REINFORCED CONCRETE PIPE.

DRAINAGE QUANTITIES

DRAINAGE SHEET No.	DRAINAGE SYSTEM No. ⬡	DRAINAGE UNIT ○	ABANDON CULVERT	SAND BACKFILL	REMOVE CULVERT	RELOCATE ROCK SLOPE PROTECTION	REMOVE INLET	REMOVE HEADWALL	REMOVE MUD, SAND AND DEBRIS (IN CSP CULVERT)	CAP INLET	CAP RISER	APC (ALTERNATIVE PIPE CULVERT) 18"	24"	30"	36"	6" PLASTIC PIPE	18" BITUMINOUS C+d CORRUGATED STEEL PIPE (0.109" THICK)	48" BITUMINOUS C+d CORRUGATED STEEL PIPE (0.109" THICK)	24" REINFORCED CONCRETE PIPE	36" REINFORCED CONCRETE PIPE	36" REINFORCED CONCRETE PIPE RISER	CONCRETE COLLAR (N)	MANHOLE FRAME AND COVER (N)	PIPE JOINT TYPE (N)	MAXIMUM HEIGHT COVER (N)	STRUCTURE HEIGHT (N)	TYPE OL INLET (N)	TYPE G-2 INLET (N)	TYPE GD1/GD2 INLET (N)	DRAINAGE INLET MARKER	DRAINAGE SHEET No.	DRAINAGE SYSTEM No. ⬡	DRAINAGE UNIT ○
			EA	CY	LF	CY	EA	EA	LF	EA	EA	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	EA	EA	EA	LF	LF	EA	EA	EA	EA			
G-2	1	a																		11.9		1		S	19.8						G-2	1	a
G-2	1	b																								5.8					G-2	1	b
G-2	1	c																			10.8										G-2	1	c
G-2	1	d																								6.9		1			G-2	1	d
G-2	1	e											69.5											S	4.2						G-2	1	e
G-2	1	f																								5.1		1			G-2	1	f
G-3	2	a																													G-3	2	a
G-3	2	b																								3.7					G-3	2	b
G-3	2	c											65.1											S	8.5						G-3	2	c
G-3	2	d																								9.9	1			1	G-3	2	d
G-3	2	e																	138.5					S	7.9						G-3	2	e
G-3	2	f																								8.5	1			1	G-3	2	f
G-3	2	g																	221.6					S	5.8						G-3	2	g
G-3	2	h																								6.7	1			1	G-3	2	h
G-3	2	i											246.5											S	6.9						G-3	2	i
G-3	2	j																								9.7	1			1	G-3	2	j
G-3	2	k														20.0															G-3	2	k
G-3	2A	a									1																				G-3	2A	a
G-3	2A	b									1																				G-3	2A	b
G-3	2A	c									1																				G-3	2A	c
G-3	2A	d					1																								G-3	2A	d
G-3	2A	e			32.0																										G-3	2A	e
G-3	3	a									1																				G-3	3	a
G-3	3	b																	10.2			1		S	12.0						G-3	3	b
G-3	3	c																								13.6		1			G-3	3	c
G-3	3A	a																													G-3	3A	a
G-3	4	a																								4.4			1		G-3	4	a
G-3	4	b											128.3											S	2.4						G-3	4	b
G-3	4	c																								4.0		1			G-3	4	c
G-3	4	d										118.9																			G-3	4	d
G-3	4	e																								3.0		1			G-3	4	e
G-3	5	a													46.9							1		S	8.8						G-3	5	a
G-3	5	b																								7.5		1			G-3	5	b
G-3	5	c													364.8									S	12.3						G-3	5	c
SUBTOTAL			0	0	32.0	0	1	0	0	0	4	118.9	509.4	0	411.7	20.0	0	0	370.3	11.9	10.8	-	-	-	-	-	-	-	-	4			

1. FOR ADDITIONAL QUANTITIES SEE STAGE CONSTRUCTION AND TRAFFIC HANDLING QUANTITIES.
2. GLD - GRATED LINE DRAIN. ALL GLD TO BE WITH 0.6% PRESLOPED BOTTOM AND 12" Min DEPTH.
3. S - STANDARD JOINT TYPE.
4. (N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

1 **REVISED PER ADDENDUM No. 1 DATED JUNE 29, 2012**

DRAINAGE QUANTITIES

DQ-1

REVISED BY | DATE REVISED
JENNY YAN | JEFF BALUYUT
CALCULATED-DESIGNED BY | CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR: CARL SAVAGE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® PROJECT DEVELOPMENT

LAST REVISION 05-22-12 | DATE PLOTTED => 28-JUN-2012 | TIME PLOTTED =>

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	15,76	R46.1/R47.3, R16.7/R17.7	137	477

REGISTERED CIVIL ENGINEER 01-17-12 DATE

4-16-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JENNY YAN No. C62092 Exp 09-30-13 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.

1

DRAINAGE QUANTITIES

DRAINAGE SHEET No.	DRAINAGE SYSTEM No. ⬡	DRAINAGE UNIT ○	GRATED LINE DRAIN LF	GRATE TYPE 24-12 (N) EA	MISCELLANEOUS IRON AND STEEL LB	MINOR CONCRETE (MINOR STRUCTURE) CY	STRUCTURE BACKFILL (SLURRY CEMENT) CY	CONCRETE (CONCRETE APRON) CY	STRUCTURAL CONCRETE, HEADWALL CY	STRUCTURAL CONCRETE, JUNCTION STRUCTURE CY	ROCK SLOPE PROTECTION (LIGHT, METHOD B) CY	ROCK SLOPE PROTECTION (4 TON, METHOD A) CY	ROCK SLOPE PROTECTION (1/2 TON, METHOD A) CY	ROCK SLOPE PROTECTION (NO. 1, METHOD B) CY	ROCK SLOPE PROTECTION FABRIC (CLASS 8) SQFT	ROCK SLOPE PROTECTION FABRIC (CLASS 10) SQFT	DESCRIPTION	STATION	DRAINAGE SHEET No.	DRAINAGE SYSTEM No. ⬡	DRAINAGE UNIT ○
G-2	1	a															36" RCP W/ TYPE L-2 COLLAR		G-2	1	a
G-2	1	b								2.03							JUNCTION STRUCTURE	33.79' Lt 2477+28.59 "B-3A"	G-2	1	b
G-2	1	c			20												36" CSP RISER W/ RISER SAFETY CAGE		G-2	1	c
G-2	1	d		1	329	2.30											TYPE G-2 INLET W/24-12 GRATE & CHAIN	33.79' Lt 2477+28.59 "B-3A"	G-2	1	d
G-2	1	e															24" APC		G-2	1	e
G-2	1	f		1	329	1.85											TYPE G-2 INLET W/24-12 GRATE & CHAIN	36.23' Lt 2478+01.98 "B-3A"	G-2	1	f
G-3	2	a									6.67				187.0		RSP		G-3	2	a
G-3	2	b							1.20								STRAIGHT HEADWALL	122.5' Rt 338+63.60 "76-RA"	G-3	2	b
G-3	2	c															24" APC		G-3	2	c
G-3	2	d			170	5.47											TYPE OL INLET W/ COVER PLATE	55.86' Lt 338+50.00 "76-RA"	G-3	2	d
G-3	2	e															24" RCP		G-3	2	e
G-3	2	f			170	4.93											TYPE OL INLET W/ COVER PLATE	59.00' Lt 339+25.00 "76-RA"	G-3	2	f
G-3	2	g															24" RCP		G-3	2	g
G-3	2	h			170	3.42											TYPE OL INLET W/ COVER PLATE	55.50' Lt 341+50.00 "76-RA"	G-3	2	h
G-3	2	i															24" APC		G-3	2	i
G-3	2	j			170	5.40											TYPE OL INLET W/ COVER PLATE	53.00' Rt 341+00.00 "76-RA"	G-3	2	j
G-3	2	k															6" PLASTIC PIPE		G-3	2	k
G-3	2A	a															CAP RISER	6.22' Rt 338+17.98 "76-RA"	G-3	2A	a
G-3	2A	b															CAP RISER	51.84' Lt 337+82.90 "76-RA"	G-3	2A	b
G-3	2A	c															CAP RISER		G-3	2A	c
G-3	2A	d															REMOVE G-2 INLET	61.34' Lt 2483+71.52 "B-4A"	G-3	2A	d
G-3	2A	e															REMOVE 18" CSP		G-3	2A	e
G-3	3	a															CAP RISER	3.69' Lt 2488+06.62 "B-6"	G-3	3	a
G-3	3	b															24" RCP W/ TYPE J-1 COLLAR		G-3	3	b
G-3	3	c	10.0	1	329	5.47											TYPE G-2 INLET W/24-12 GRATE & CHAIN AND GLD	20.00' Lt 2488+06.62 "B-6"	G-3	3	c
G-3	3A	a												0.60	43.6		RSP		G-3	3A	a
G-3	4	a		2	622	2.00		1.50									GD1 INLET W/ DOUBLE 24-12 GRATE & CHAIN, APRON	45.22' Lt 2490+35.10 "B-6"	G-3	4	a
G-3	4	b															24" APC		G-3	4	b
G-3	4	c		1	329	1.57		1.50									TYPE G-2 INLET W/24-12 GRATE & CHAIN, APRON	44.00' Lt 2492+00.00 "B-6"	G-3	4	c
G-3	4	d															18" APC		G-3	4	d
G-3	4	e		1	329	1.31		1.50									TYPE G-2 INLET W/24-12 GRATE & CHAIN, APRON	39.00' Lt 2493+50.00 "B-6"	G-3	4	e
G-3	5	a															36" APC		G-3	5	a
G-3	5	b		1	329	2.46		1.25									TYPE G-2 INLET W/24-12 GRATE & CHAIN	181.36' Lt 2493+56.14 "RTLN"	G-3	5	b
G-3	5	c															36" APC		G-3	5	c
SUBTOTAL			10.0	-	3296	36.18	0	5.75	1.20	2.03	6.67	0	0	0.60	230.6	0					

1. FOR ADDITIONAL QUANTITIES SEE STAGE CONSTRUCTION AND TRAFFIC HANDLING QUANTITIES.
2. GLD - GRATED LINE DRAIN. ALL GLD TO BE WITH 0.6% PRESLOPED BOTTOM AND 12" Min DEPTH.
3. S - STANDARD JOINT TYPE.
4. (N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

1 REVISED PER ADDENDUM No. 1 DATED JUNE 29, 2012

DRAINAGE QUANTITIES
DQ-2

REVISED BY | DATE REVISED
JENNY YAN | JEFF BALUYUT
CALCULATED-DESIGNED BY | CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR
CARL SAVAGE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans PROJECT DEVELOPMENT

LAST REVISION 05-22-12 | DATE PLOTTED => 28-JUN-2012 | TIME PLOTTED => 11:56

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	15,76	R46.1/R47.3, R16.7/R17.7	144	477

REGISTERED CIVIL ENGINEER 01-17-12 DATE

4-16-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JENNY YAN No. C62092 Exp. 09-30-13 CIVIL STATE OF CALIFORNIA

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1

DRAINAGE QUANTITIES

DRAINAGE SHEET No.	DRAINAGE SYSTEM No. ⬡	DRAINAGE UNIT ○	ABANDON CULVERT EA	SAND BACKFILL CY	REMOVE CULVERT LF	RELOCATE ROCK SLOPE PROTECTION CY	REMOVE INLET EA	REMOVE HEADWALL EA	REMOVE MUD, SAND AND DEBRIS (IN CSP CULVERT) LF	CAP INLET EA	CAP RISER EA	APC (ALTERNATIVE PIPE CULVERT) 18" LF	24" LF	30" LF	36" LF	6" PLASTIC PIPE LF	18" BITUMINOUS C+d CORRUGATED STEEL PIPE (0.109" THICK) LF	48" BITUMINOUS C+d CORRUGATED STEEL PIPE (.109" THICK) LF	24" REINFORCED CONCRETE PIPE LF	36" REINFORCED CONCRETE PIPE LF	36" REINFORCED CONCRETE PIPE RISER LF	CONCRETE COLLAR (N) EA	MANHOLE FRAME AND COVER (N) EA	PIPE JOINT TYPE (N) EA	MAXIMUM HEIGHT COVER (N) LF	STRUCTURE HEIGHT (N) LF	TYPE OL INLET (N) EA	TYPE G-2 INLET (N) EA	TYPE GD1/GD2 INLET (N) EA	DRAINAGE INLET MARKER EA	DRAINAGE SHEET No.	DRAINAGE SYSTEM No. ⬡	DRAINAGE UNIT ○
G-9	23	j	1	9.83																											G-9	23	j
G-9	23	k					1																								G-9	23	k
G-9	23	l			35.8																										G-9	23	l
G-11	24	a						2																							G-11	24	a
G-11	24	b			28.6																										G-11	24	b
G-11	24	c					1																								G-11	24	c
G-11	25	a																							3.2						G-11	25	a
G-11	25	b															45.8							S	1.5						G-11	25	b
G-11	25	c																								3.2					G-11	25	c
G-11	26	a				38																									G-11	26	a
G-11	26	b						1																							G-11	26	b
SUBTOTAL			1	9.83	64.4	38	2	3	0	0	0	0	0	0	0	0	45.8	0	0	0	0	-	-	-	-	-	-	-	-	0			
GRAND TOTAL			2	28.20	500.8	38	10	3	264.0	1	5	445.7	1750.2	48.4	430.9	20.0	69.9	72.0	1158.6	77.5	15.8	-	-	-	-	-	-	-	-	8			

1. FOR ADDITIONAL QUANTITIES SEE STAGE CONSTRUCTION AND TRAFFIC HANDLING QUANTITIES.
2. GLD - GRATED LINE DRAIN. ALL GLD TO BE WITH 0.6% PRESLOPED BOTTOM AND 12" Min DEPTH.
3. S - STANDARD JOINT TYPE.
4. (N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

1 **REVISED PER ADDENDUM No. 1 DATED JUNE 29, 2012**

DRAINAGE QUANTITIES
DQ-9

REVISED BY | DATE REVISED
JENNY YAN | JEFF BALUYUT
CALCULATED-DESIGNED BY | CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR: CARL SAVAGE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans PROJECT DEVELOPMENT

LAST REVISION 05-22-12 | DATE PLOTTED => 28-JUN-2012 | TIME PLOTTED => 11:56

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	15,76	R46.1/R47.3, R16.7/R17.7	145	477

REGISTERED CIVIL ENGINEER 01-17-12 DATE

4-16-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JENNY YAN No. C62092 Exp. 09-30-13 CIVIL STATE OF CALIFORNIA

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1

DRAINAGE QUANTITIES

DRAINAGE SHEET No.	DRAINAGE SYSTEM No. ⬡	DRAINAGE UNIT ○	GRATED LINE DRAIN LF	GRATE TYPE 24-12 (N) EA	MISCELLANEOUS IRON AND STEEL LB	MINOR CONCRETE (MINOR STRUCTURE) CY	STRUCTURE BACKFILL (SLURRY CEMENT) CY	CONCRETE (CONCRETE APRON) CY	STRUCTURAL CONCRETE, HEADWALL CY	STRUCTURAL CONCRETE, JUNCTION STRUCTURE CY	ROCK SLOPE PROTECTION (LIGHT, METHOD B) CY	ROCK SLOPE PROTECTION (4 TON, METHOD A) CY	ROCK SLOPE PROTECTION (1/2 TON, METHOD A) CY	ROCK SLOPE PROTECTION (NO. 1, METHOD B) CY	ROCK SLOPE PROTECTION FABRIC (CLASS 8) SQFT	ROCK SLOPE PROTECTION FABRIC (CLASS 10) SQFT	DESCRIPTION	STATION	DRAINAGE SHEET No.	DRAINAGE SYSTEM No. ⬡	DRAINAGE UNIT ○
G-9	23	j															ABANDON 24" RCP WITH SAND BACKFILL		G-9	23	j
G-9	23	k															REMOVE INLET	18.54' R+ 330+05.17 "76-RA"	G-9	23	k
G-9	23	l															REMOVE 24" RCP		G-9	23	l
G-11	24	a															REMOVE HEADWALL	96.24' R+ 352+50.04 "76-RA"	G-11	24	a
G-11	24	b															REMOVE 24" RCP		G-11	24	b
G-11	24	c															REMOVE INLET	66.92' L+ 352+50.80 "76-RA"	G-11	24	c
G-11	25	a							0.91								STRAIGHT HEADWALL	83.85' L+ 353+20.00 "76-RA"	G-11	25	a
G-11	25	b															18" CSP		G-11	25	b
G-11	25	c							0.91								STRAIGHT HEADWALL	87.63' L+ 353+40.00 "76-RA"	G-11	25	c
G-11	26	a															RELOCATE RSP	75.00' R+ 363+50.00 "76-RA"	G-11	26	a
G-11	26	b															REMOVE HEADWALL	62.00' R+ 362+45.00 "76-RA"	G-11	26	b
SUBTOTAL			0	-	0	0	0	0	1.82	0	0	0	0	0	0	0					
GRAND TOTAL			155.0	-	13298	121.3	35.4	15.3	6.6	7.1	34.6	100.7	50.4	27.3	1064.6	1936.0					

1. FOR ADDITIONAL QUANTITIES SEE STAGE CONSTRUCTION AND TRAFFIC HANDLING QUANTITIES.
2. GLD - GRATED LINE DRAIN. ALL GLD TO BE WITH 0.6% PRESLOPED BOTTOM AND 12" Min DEPTH.
3. S - STANDARD JOINT TYPE.
4. (N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

1 REVISED PER ADDENDUM No. 1 DATED JUNE 29, 2012

DRAINAGE QUANTITIES

DQ-10

JENNY YAN | REVISED BY
JEFF BALUYUT | DATE REVISED
CALCULATED-DESIGNED BY
CHECKED BY
CARL SAVAGE | CONSULTANT FUNCTIONAL SUPERVISOR
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans PROJECT DEVELOPMENT

LAST REVISION 05-22-12 | DATE PLOTTED => 28-JUN-2012 TIME PLOTTED => 11:56

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	15,76	R46.1/R47.3, R16.7/R17.7	242	477

REGISTERED CIVIL ENGINEER 01-10-12 DATE

4-16-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MOHAMAD KHATIB No. C63411 Exp. 09-30-12 CIVIL STATE OF CALIFORNIA

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1

STAGE CONSTRUCTION SUMMARY OF QUANTITIES

STAGE	TYPE III BARRICADE	TRAFFIC PLASTIC DRUM	TEMPORARY RAILING (TYPE K)	TEMPORARY PAVEMENT: HOT MIX ASPHALT (TYPE A)	TEMPORARY PAVEMENT: CLASS 2 AGGREGATE BASE	TEMPORARY PAVEMENT: TACK COAT	HMA DIKE (TYPE E): LENGTH	HMA DIKE (TYPE E): WEIGHT	HSSD: PLACE HMA (Misc AREA)
	EA	EA	LF	TON	CY	TON	LF	TON	SQYD
1A	4	55	13 940	1215.2	1357.2	2.61	1820	45.90	308.81
1B	4	50	5260						
1C	1	32	5280						
1D		116	6580						
2	18	64	3520						
TOTAL	27	317	34 580	1215.2 *	1357.2 *	2.61 *	1820 *	45.90 *	308.81 *

TEMPORARY CRASH CUSHION

STAGE	TEMPORARY CRASH CUSHION MODULE: TU21	TS14	TB11	TEMPORARY CRASH CUSHION (ADIEM)	TEMPORARY ALTERNATIVE CRASH CUSHION SYSTEM
	EA	EA	EA	EA	EA
1A		14		4	
1B	21			2	
1C	21	14	11		1
1D		14	11		1
2				4	
SUBTOTAL	42	42	22	10	2
TOTAL	106			10	2

REMOVE YELLOW PAINTED TRAFFIC STRIPE (HAZARDOUS WASTE)

SC- SHEET No.	DETAIL No.	FROM Sta	TO Sta	LINE	LOCATION	LENGTH (LF)
7	25	2480+00.00	2481+50.00	RTLN	NB	150.00
7	25	2475+50.00	2481+50.00	RTLN	SB	600.00
8	25	2481+50.00	2496+00.00	RTLN	SB	1450.00
8	25	2481+50.00	2496+00.00	RTLN	NB	1450.00
10	25	2496+00.00	2503+00.00	RTLN	NB	700.00
10	25	2496+00.00	2498+00.00	RTLN	SB	200.00
30	25	2464+00.00	2471+50.00	RTLN	SB	750.00
31	25	2471+50.00	2478+50.00	RTLN	SB	700.00
32	25	2500+00.00	2509+50.00	RTLN	NB	950.00
35	25	2509+50.00	2523+50.00	RTLN	NB	1400.00
36	25	2523+50.00	2535+00.00	RTLN	NB	1150.00
					TOTAL	9500.00

TEMPORARY DRAINAGE QUANTITIES

5T TEMPORARY DRAINAGE SYSTEM	CAP INLET	REMOVE INLET	MISCELLANEOUS IRON AND STEEL	MINOR CONCRETE (MINOR STRUCTURE)	STRUCTURE BACKFILL (SLURRY CEMENT)
UNIT	EA	EA	LB	CY	CY
a	1				
b				3.0	2.0
c			326	1.4	
d		1			
DQ-SHEETS GRAND TOTAL	1	10	12969	121.3	35.4
TOTAL	2	11	13624	125.7	37.4

NOTE: SEE DRAINAGE QUANTITIES SHEET FOR ADDITIONAL QUANTITIES.

LEVEL PAVING QUANTITIES

Loc	LINE	STATION RANGE	COLD PLANE AC Pvmt (SQYD)	HMA (TYPE A) (TON)
1	76-RA	328+00 TO 329+08	1411	606
2	76-RA	337+70 TO 339+20	556	-
3	76-RA	350+60 TO 351+20	1278	528
4	76-RA	329+10 TO 329+50	1222	496
5	76-RA	353+00 TO 354+00	444	-
6	76-RA	349+00 TO 350+60	1139	374
7	76-RA	350+70 TO 351+50	400	78
8	76-RA	331+50 TO 332+50	972	310
		TOTAL	7422 *	2392 *

NOTE: (*) SEE SUMMARY OF QUANTITIES SHEET FOR TOTAL ROADWAY QUANTITIES.
(N)- NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY

1 REVISED PER ADDENDUM No. 1 DATED JUNE 29, 2012

STAGE CONSTRUCTION AND TRAFFIC HANDLING QUANTITIES

SCQ-15

REVISED BY | DATE REVISED
MOHAMAD KHATIB | WAMEEDH TOZY
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: CARL SAVAGE
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® PROJECT DEVELOPMENT

LAST REVISION 01-23-12 | DATE PLOTTED => 28-JUN-2012 | TIME PLOTTED => 11:56

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	15,76	R46.1/R47.3, R16.7/R17.7	295	477

REGISTERED CIVIL ENGINEER 01-10-12 DATE

4-16-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MOHAMAD KHATIB No. C63411 Exp. 09-30-12 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.

FENCE

SHEET No.	LINE	STATION LIMITS		WILDLIFE FENCE (TYPE CL-10)	ARROYO TOAD FENCE	MAINTAIN EXISTING ARROYO TOAD FENCE	CHAIN LINK FENCE (TYPE CL-6)
				LF	LF	(N) LF	LF
L-2	B-2A	2474+60	2481+50	492.00	492.00	690.00	
L-2	B-3A	2473+50	2481+50	1656.00	1656.00	1713.00	
L-3	B-3A	2481+50	2483+18	168.00	168.00	168.00	
L-4	B-2A	2481+50	2493+89	1135.00	1135.00	1135.00	
L-4	B-2A	2492+08	2494+34				483.00
L-5	B-1A,RTLN	2497+41	2509+50	1209.00	1209.00	1852.00	
L-6	RTLN	2509+50	2514+58	508.00	508.00		
L-6	RTLN	2509+50	2523+50			1400.00	
L-7	RTLN	2523+50	2532+80			930.00	
L-8	WT,76-RA	316+72	327+09			1078.00	
L-10	FL-A	2243+60	2249+96	636.00	636.00	1210.00	
L-11	76-RA(L+)	352+50	364+50	1415.00	1415.00	1415.00	
L-11	76-RA(R+)	352+50	354+85	1135.00	1135.00	1135.00	
L-11	76-RA	352+50	364+63				326.00
L-12	76-RA	364+50	366+20	170.00	170.00	170.00	
			TOTAL	8524.00	8524.00		809.00

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

1

RAIL FENCE

LINE	STATION	LIMITS	L+	R+	LENGTH (LF)
76-RA	329+45	337+00		×	755
76-RA	338+24	341+21		×	297
76-RA	346+04	349+18		×	314
76-RA	332+68	334+03	×		135
76-RA	334+64	337+18	×		254
76-RA	339+20	341+47	×		227
76-RA	347+30	350+23	×		293
			TOTAL		2275

GATE

LINE	SIDE	STATION	4′ CHAIN LINK GATE (TYPE CL-8)	10′ CHAIN LINK GATE (TYPE CL-6)
			EA	EA
RTLN	L+	2477+00.00	1	
B-3A	L+	2482+00.00	1	
RTLN	R+	2502+00.00	1	
76-RA	R+	351+75.00		1
76-RA	R+	353+10.00		2
76-RA	R+	353+70.00		2
76-RA	L+	357+80.00	1	
		TOTAL	4	5

1 **REVISED PER ADDENDUM No. 1 DATED JUNE 29, 2012**

SUMMARY OF QUANTITIES

Q-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

FUNCTIONAL SUPERVISOR: CARL SAVAGE

CALCULATED-DESIGNED BY: MOHAMAD KHATIB

CHECKED BY: NIZAM SULIMAN

REVISED BY

DATE REVISED

LAST REVISION 05-25-12

DATE PLOTTED => 28-JUN-2012
TIME PLOTTED => 11:56