INDEX OF SHEETS

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19-21	L-17 TO L-19	LAYOUT-RUBICON TRAIL (LOON LAKE TO ELLIS CREEK INTERTIE)
22-23	D-1 TO D-2	DETAILS
24-26	Q-1 TO Q-3	BMP DIMENSIONS/QUANTITY SCHEDULE

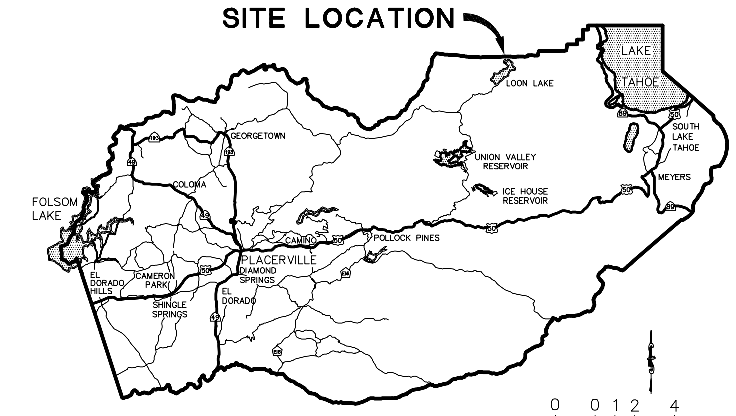
DEPARTMENT OF TRANSPORTATION
COUNTY OF EL DORADO, CA

PROJECT PLANS FOR THE IMPLEMENTATION OF

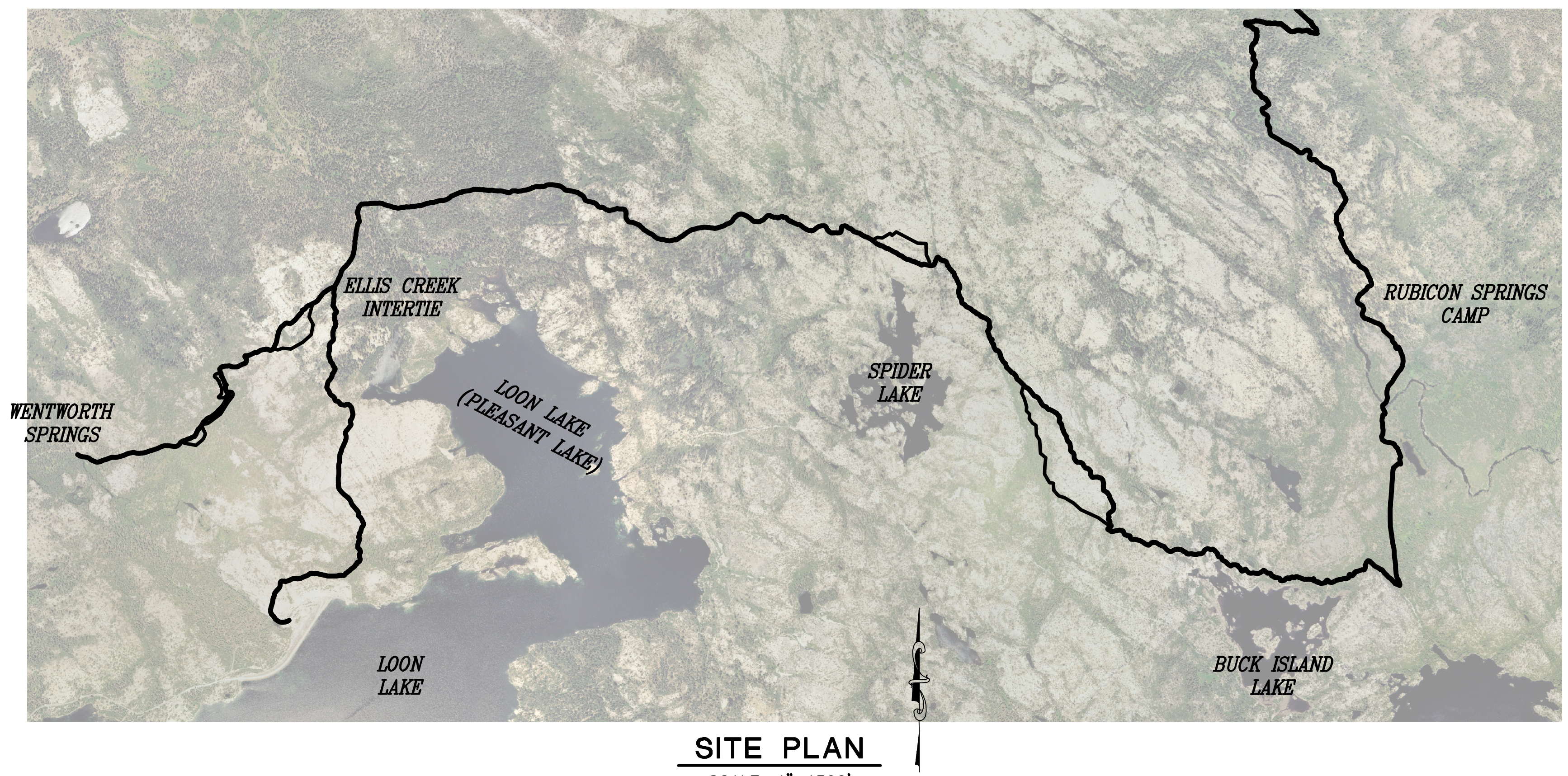
RUBICON TRAIL SATURATED SOIL WATER QUALITY PROTECTION PLAN

IN THE COUNTY OF EL DORADO, DISTRICT IV
IN THE CRYSTAL BASIN OF THE EL DORADO NATIONAL FOREST

DECEMBER 14, 2010



VICINITY MAP
COUNTY OF EL DORADO



SITE PLAN
SCALE: 1"=1500'

FUNDING AGENCY
STATE PARKS OHMVRD

SACRAMENTO MUNICIPLE UTILITY DISTRICT FUNDS

REGISTERED PROFESSIONAL ENGINEER STEVE PETER KOOYMAN No. 55757 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA

11/24/10

SUBMITTED BY: STEVE KOOYMAN, P.E. DATE
SUPERVISING CIVIL ENGINEER
STATE OF CALIFORNIA NO. 55757

REVISIONS			
MARK	DATE	BY	

EL DORADO COUNTY DOT DEPT. OF TRANSPORTATION

BOARD OF SUPERVISORS
I JOHN KNIGHT
II RAY NUTTING
III JAMES SWEENEY
IV RON V. BRIGGS
V NORMA SANTIAGO

COUNTY OF EL DORADO DEPARTMENT OF TRANSPORTATION
(530) 621-5900
2850 FAIRLANE CT
PLACERVILLE, CA
95667

APPROVED BY:
NORMA SANTIAGO, CHAIR, EL DORADO COUNTY BOARD OF SUPERVISORS DATE
JAMES W. WARE, P.E. NO. C61036, DIRECTOR, EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION 11/24/10 DATE

PW NO. N/A | PROJECT NO. 99426
RUBICON TRAIL SATURATED SOIL WATER QUALITY PROTECTION PLAN
TITLE SHEET
SHEET 1 OF 26

Drawing name: C:\Civil 3D Projects\99418 Rubicon Trail Maintenance\CADD Files\Sheets\Title.dwg Layout Tab: Title Dec 09,2010 - 11:06am SMcVey

LEGEND:

△	BMP LOCATION
⊠	STAGING AND STORAGE AREA
1	LOG BARRIER
2	ROCK BARRIER
3	ROCK FILL
4	ROCK CHECK XING
5	ROCK DITCH XING
6	ROCK APRON
7	ROCK INLET PROTECTION
8	ROCK OUTLET PROTECTION
9	ROCK ENERGY DISSIPATOR
10	ROCK SLOPE PROTECTION
11	ROCK LINED CHANNEL
12	ROCK BERM
13	ROCK BREAST WALL
14	ROCK GABION
15	ROCK FORD CROSSING

— EXISTING TRAIL EDGES (WHERE DELINEATED)

— CENTERLINE

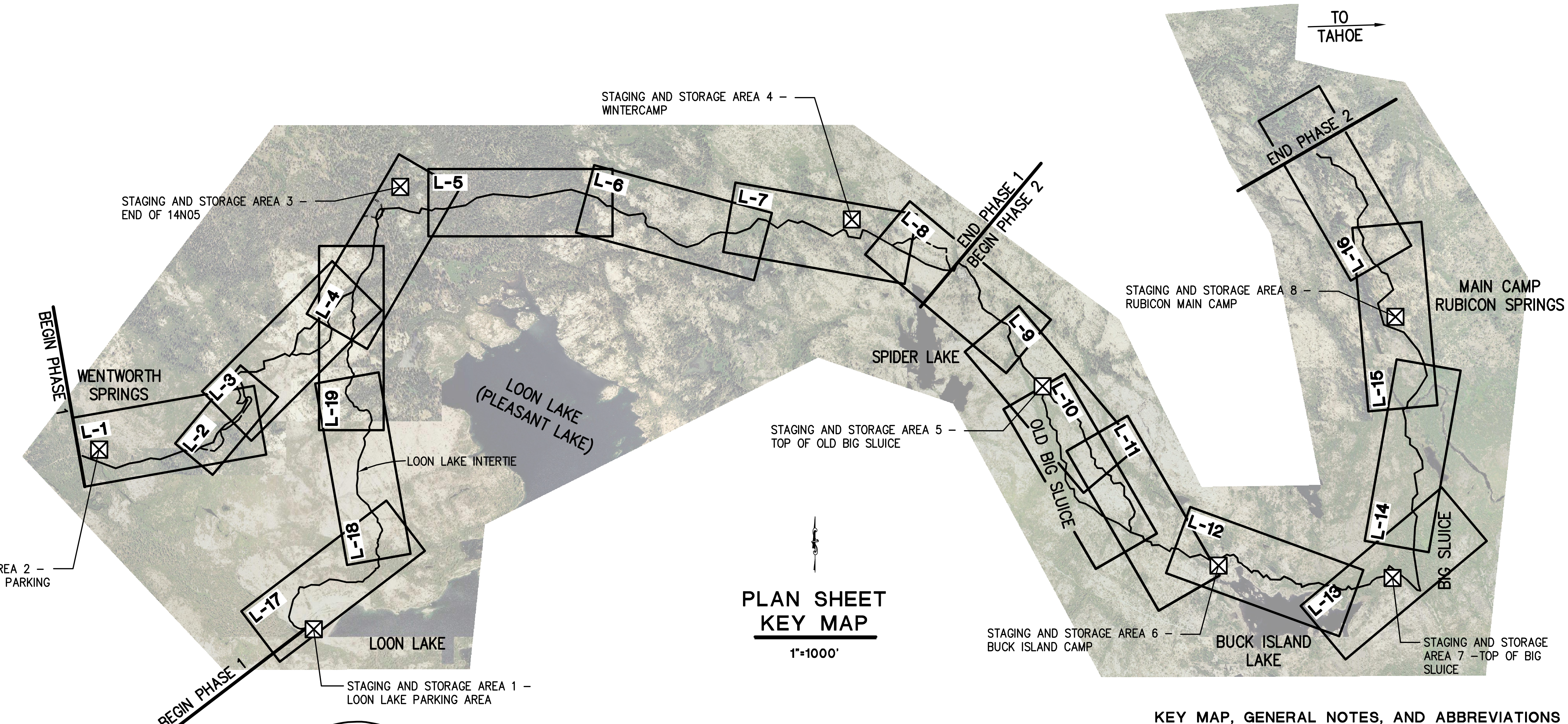
XXXX.XX — EXISTING GROUND ELEVATION

ABBREVIATIONS:

LB – LOG BARRIER
LT – LEFT
RA – ROCK APRON
RB – ROCK BARRIER
RBM – ROCK BERM
RBW – ROCK BREAST WALL
RCX – ROCK CHECK XING
RDX – ROCK DITCH XING
RED – ROCK ENERGY DISSIPATOR
RF – ROCK FILL
RFX – ROCK FORD CROSSING
RG – ROCK GABION
RIP – ROCK INLET PROTECTION
RLC – ROCK LINED CHANNEL
ROP – ROCK OUTLET PROTECTION
RSP – ROCK SLOPE PROTECTION
RT – RIGHT

GENERAL NOTES:

1. ALL MAINTENANCE BMP'S SHALL BE INSTALLED PURSUANT TO THE DETAILS AS DEPICTED ON SHEETS D-1 THRU D-2.
2. ALL CONTROL STATIONING AND DATA DIMENSIONING ARE REFERENCED TO THE CENTERLINE OF THE BMP SHOWN, UNLESS OTHERWISE NOTED.
3. THE COUNTY WILL OBTAIN ALL SPECIAL USE PERMITS AND PRIVATE OWNER PERMISSION FOR ALL STAGING AND STORAGE AREAS OUTSIDE THE LIMITS OF THE TRAIL WHERE REQUIRED PRIOR TO BEGINNING THE MAINTENANCE OPERATIONS.



PLAN SHEET KEY MAP

1"=1000'

KEY MAP, GENERAL NOTES, AND ABBREVIATIONS
SCALE : AS SHOWN

ORIGINAL SCALE IS IN INCHES FOR REDUCED PLANS
0 1 2

Drawing name: C:\Civil 3D Projects\99418 Rubicon Trail Maintenance\CADD Files\Sheets\Rubicon Trail 2010.dwg Layout Tab: K-1 Dec 07,2010 – 9:56am SMcVey

NUMBER	DATE	DESCRIPTION	BY

REVISION

REGISTERED PROFESSIONAL ENGINEER
STEVE PETER KOOYMAN
No. 55757
Exp. 12-31-10
CIVIL
STATE OF CALIFORNIA

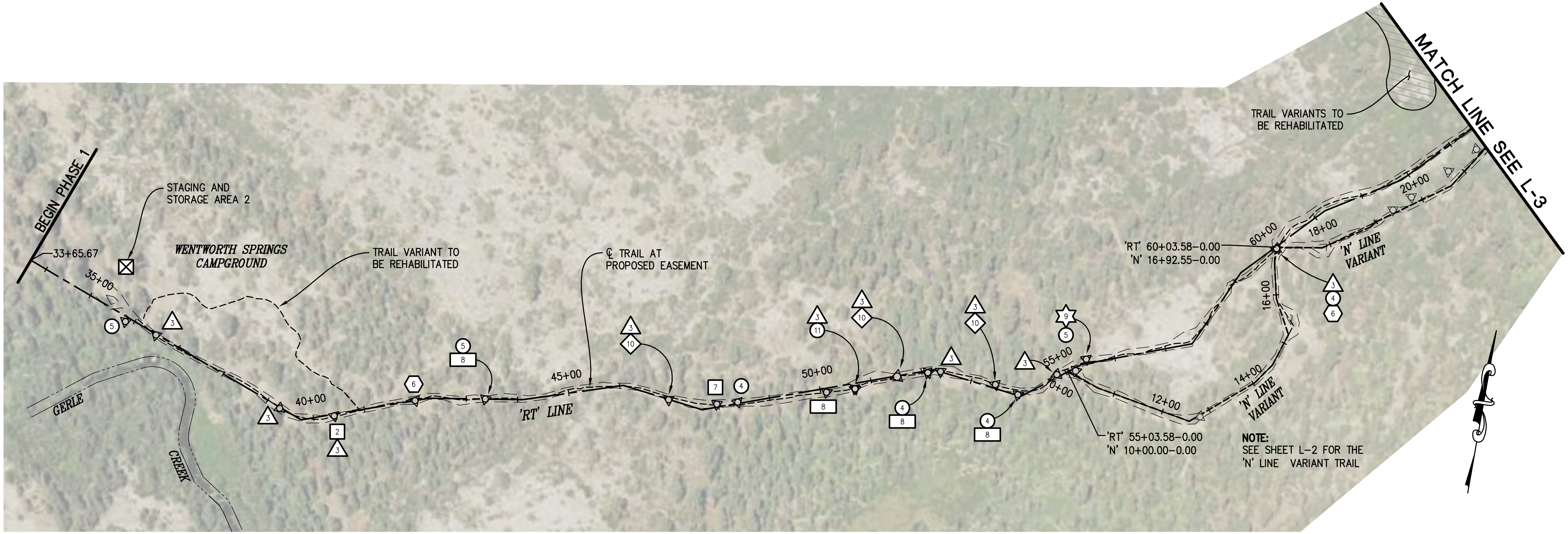
PREPARED UNDER THE SUPERVISION OF :
REGISTERED CIVIL ENGINEER
11/24/10
DATE:

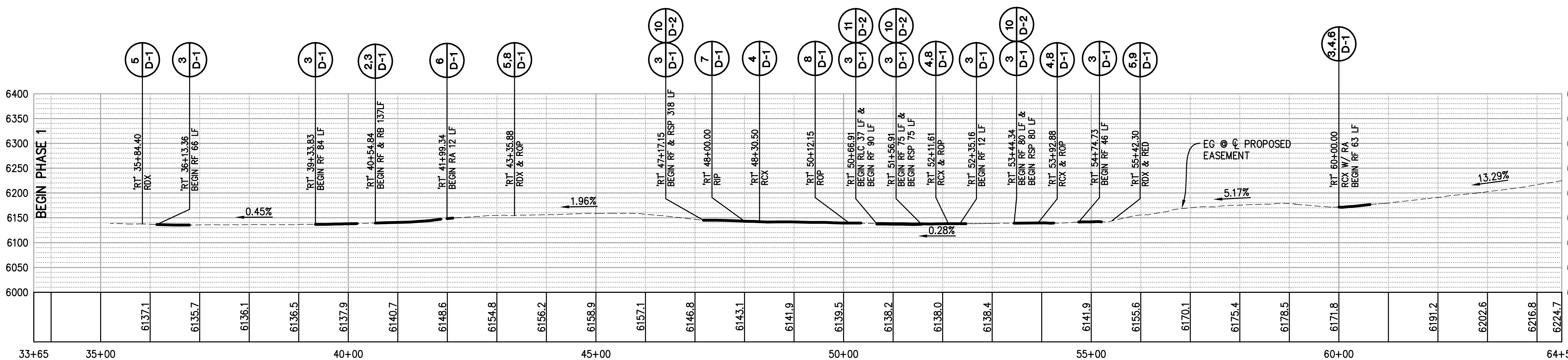
DESIGNED: SPK	DRAWN: SGM
CHECKED: SPK	DATE: 12/14/10
ROAD NUMBER: ----	

EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

RUBICON TRAIL SATURATED SOIL WATER QUALITY PROTECTION PLAN

SHEET K-1
2 OF 26
W.O. No. 99426





LAYOUT-'RT' LINE
SCALE: 1" = 100' H,V

FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES
0 1 2

Drawing name: C:\Civil 3D Projects\99418 Rubicon Trail Maintenance\CADD Files\Sheets\Rubicon Trail 2010.dwg Layout Tab: L-1 Dec 07,2010 – 10:01am SMcVey

REVISION			
NUMBER	DATE	DESCRIPTION	BY

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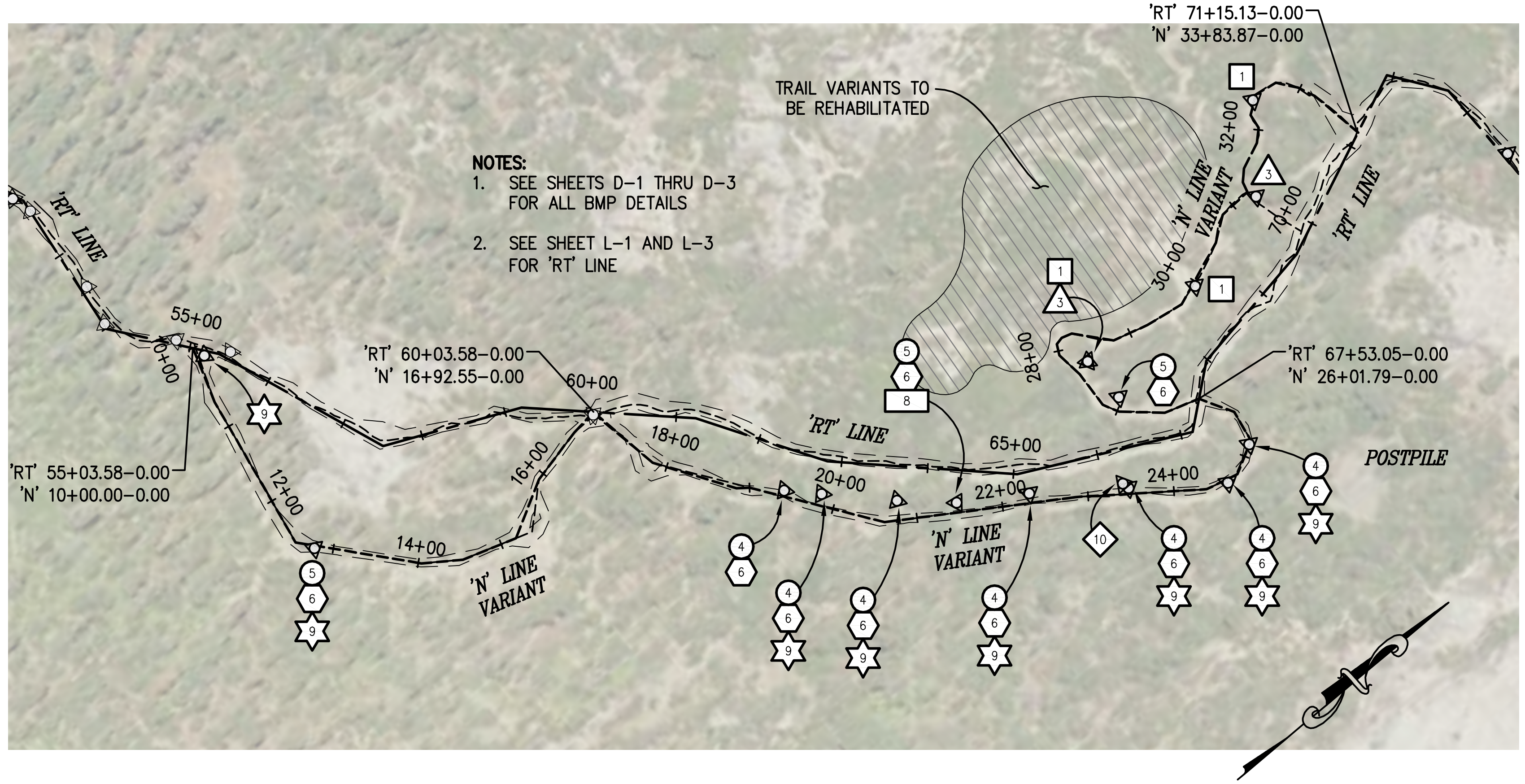
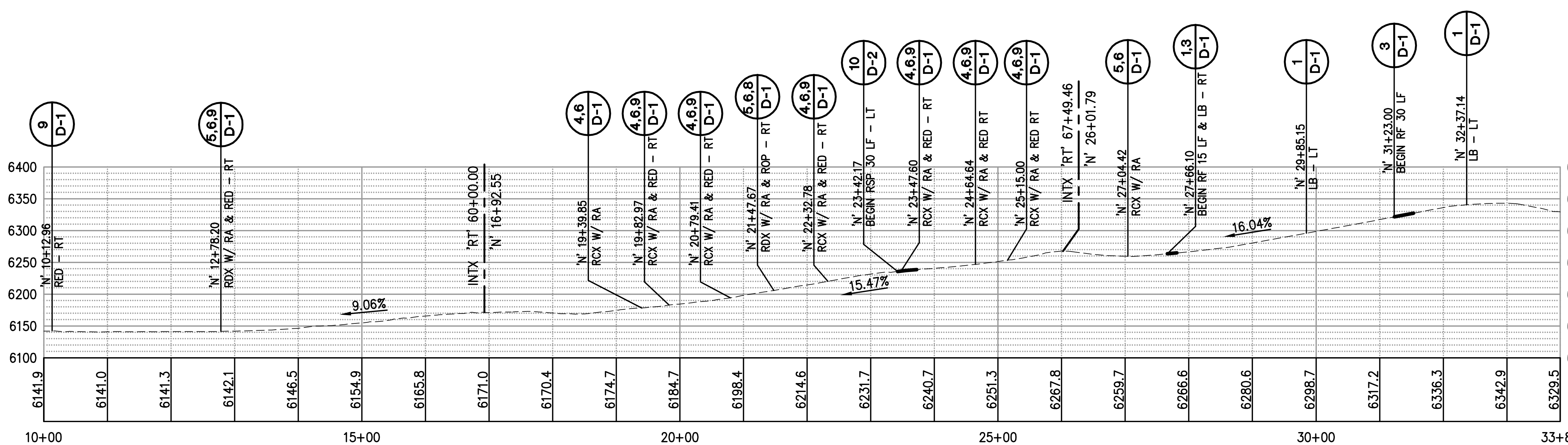
EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

RUBICON TRAIL SATURATED SOIL
WATER QUALITY PROTECTION PLAN

SHEET
L-1
3 OF 26
W.O. No.
99426





LAYOUT - 'N' LINE VARIANT
SCALE: 1" = 100' H,V

REVISION			
NUMBER	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER STEVE PETER KOOYMAN No. 55757 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF:
REGISTERED CIVIL ENGINEER
DATE: 11/24/10

DESIGNED: SPK DRAWN: SGM
CHECKED: SPK DATE: 12/14/10
ROAD NUMBER:

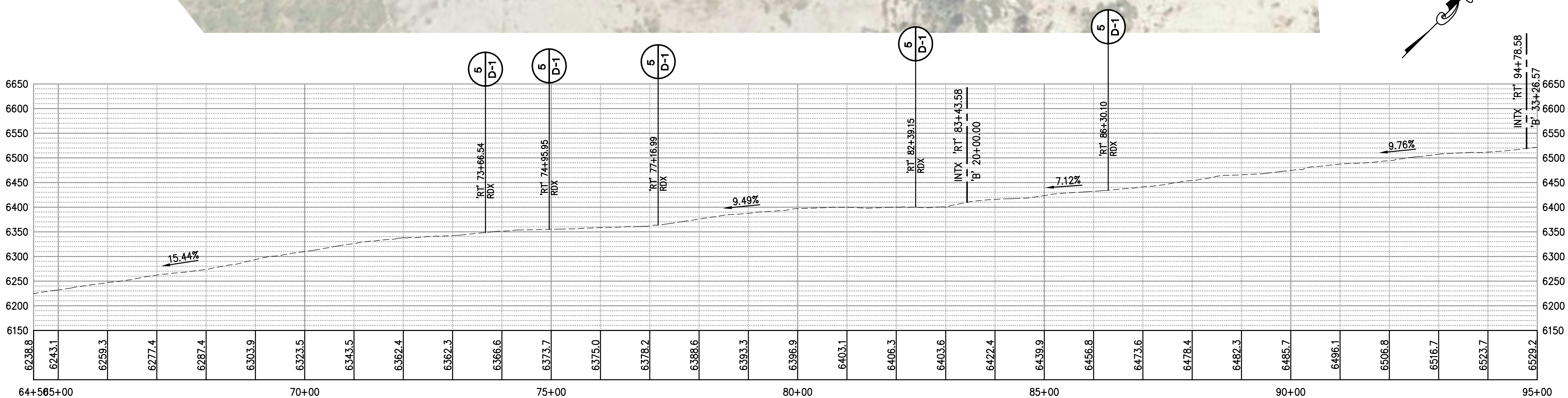
EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

RUBICON TRAIL SATURATED SOIL WATER QUALITY PROTECTION PLAN

SHEET L-2
4 OF 26
W.O. No. 99426

ORIGINAL SCALE IS IN INCHES FOR REDUCED PLANS
0 1 2

Drawing name: C:\Civil 3D Projects\99418 Rubicon Trail Maintenance\CADD Files\Sheets\Rubicon Trail 2010.dwg Layout Tab: L-2 Dec 07,2010 - 10:07am SMcVey



LAYOUT-'RT' LINE
SCALE: 1" = 100' H,V

ORIGINAL SCALE IS IN INCHES FOR REDUCED PLANS

Drawing name: C:\Civil 3D Projects\99418 Rubicon Trail Maintenance\CADD Files\Sheets\Rubicon Trail 2010.dwg Layout Tab: L-3 Dec 07,2010 - 10:12am SMcVey

REVISION	NUMBER	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER · STEVE PETER KOOYMAN · No. 55757 · Exp. 12-31-10 · CIVIL · STATE OF CALIFORNIA

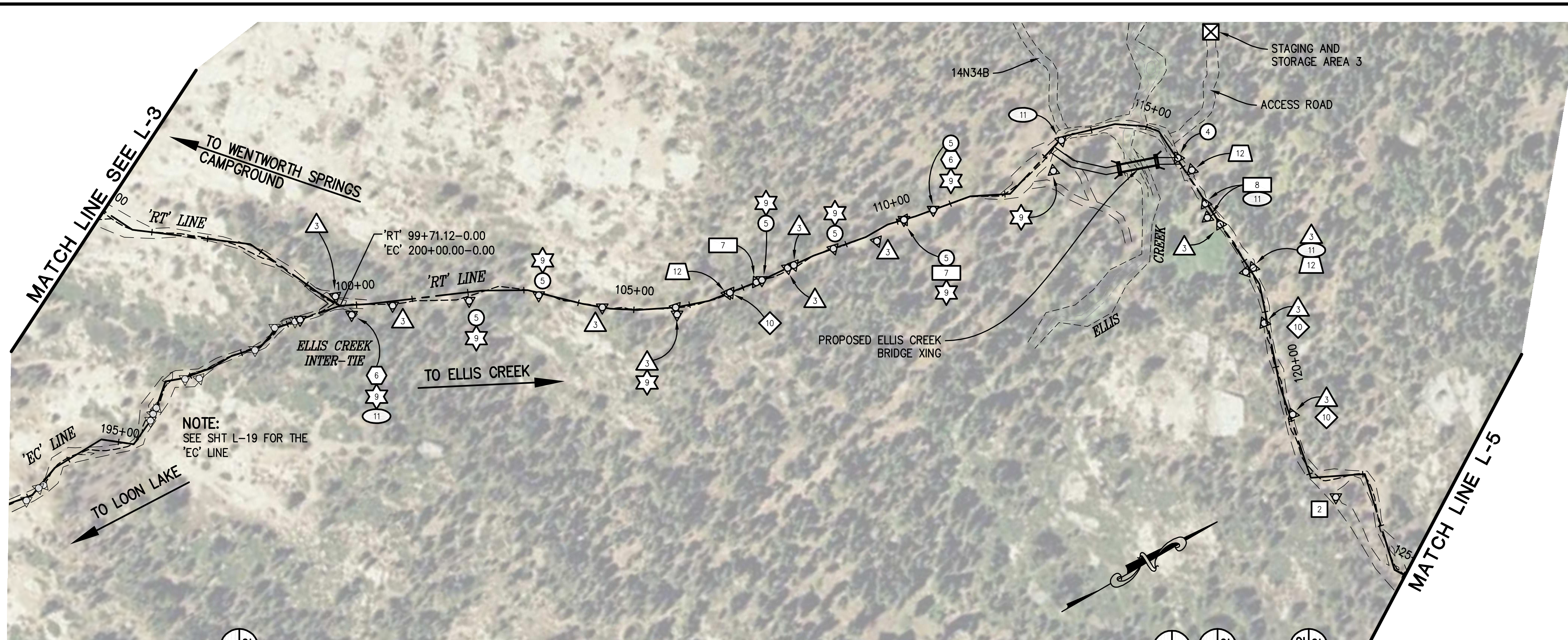
PREPARED UNDER THE SUPERVISION OF :
REGISTERED CIVIL ENGINEER
11/24/10
DATE:

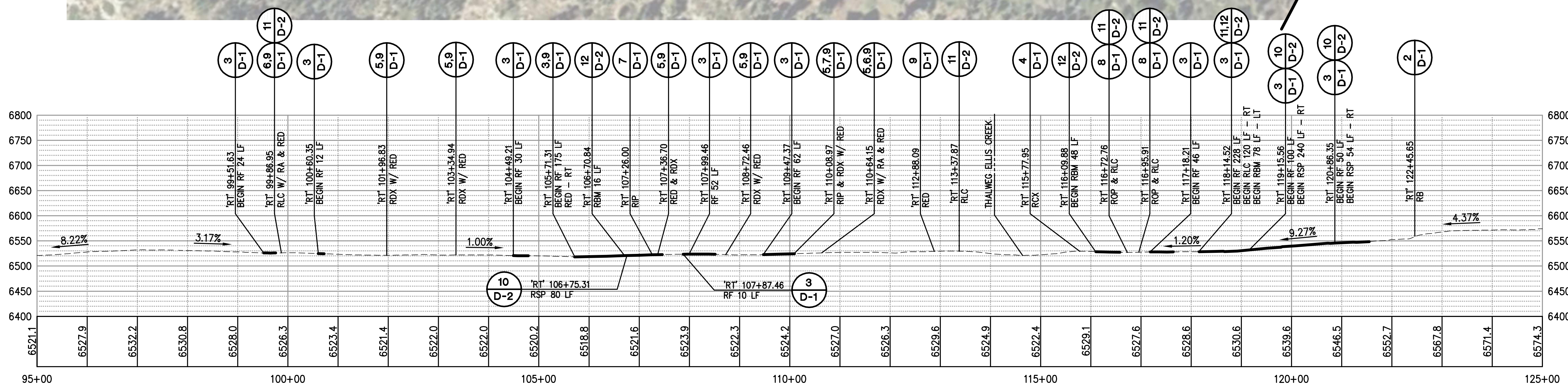
DESIGNED: SPK	DRAWN: SGM
CHECKED: SPK	DATE: 12/14/10
ROAD NUMBER: ----	

EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

RUBICON TRAIL SATURATED SOIL WATER QUALITY PROTECTION PLAN

SHEET L-3
5 OF 26
W.O. No. 99426





LAYOUT-'RT' LINE
SCALE: 1" = 100' H,V

ORIGINAL SCALE IS IN INCHES FOR REDUCED PLANS

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REVISION			
NUMBER	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER STEVE PETER KOOYMAN No. 55757 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF:
REGISTERED CIVIL ENGINEER
11/24/10
DATE:

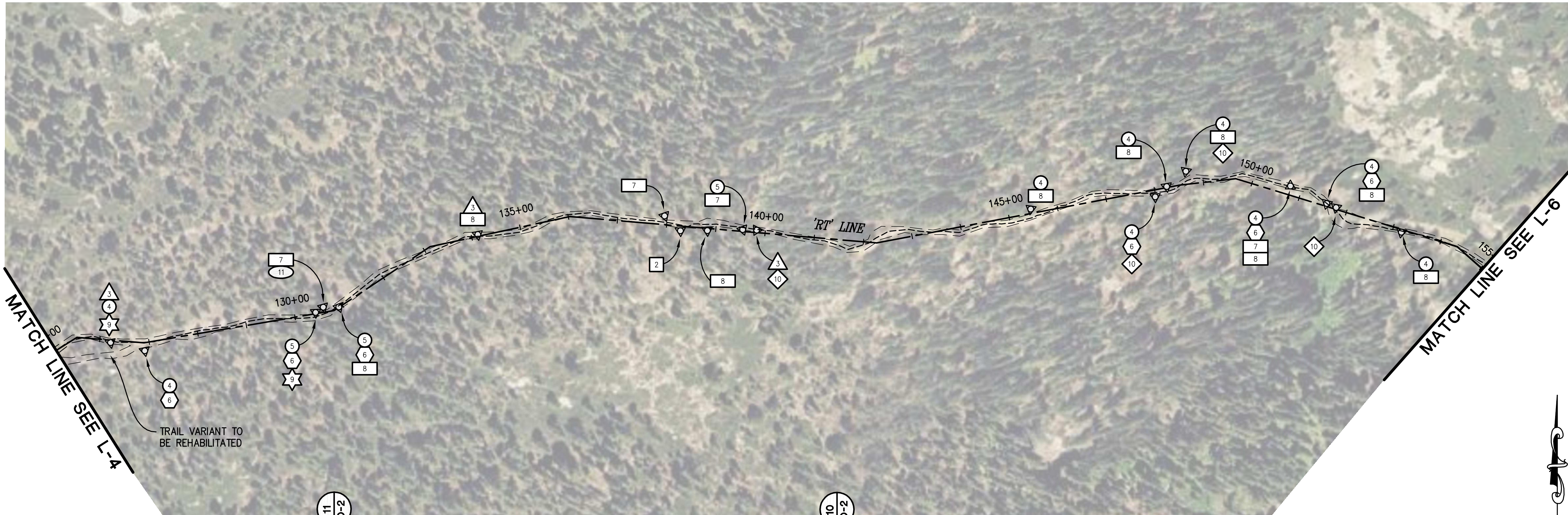
DESIGNED: SPK	DRAWN: SGM
CHECKED: SPK	DATE: 12/14/10
ROAD NUMBER: ----	

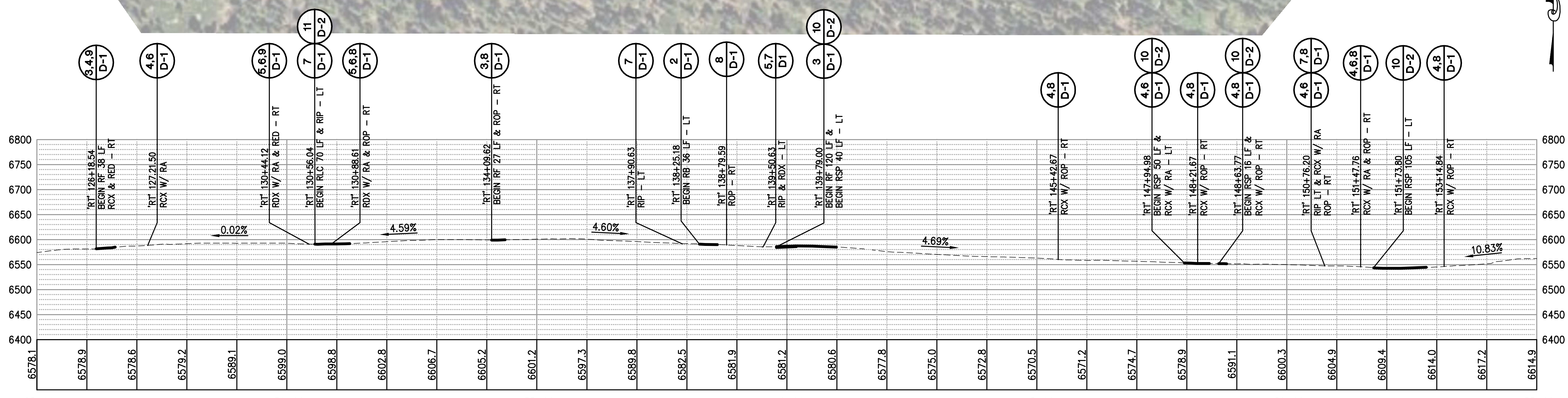
EL DORADO COUNTY DOT DEPT. OF TRANSPORTATION

EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

RUBICON TRAIL SATURATED SOIL WATER QUALITY PROTECTION PLAN

SHEET L-4
6 OF 26
W.O. No. 99426





LAYOUT-'RT' LINE
SCALE: 1" = 100' H,V

REVISION			
NUMBER	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER
STEVE PETER KOOYMAN
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CIVIL
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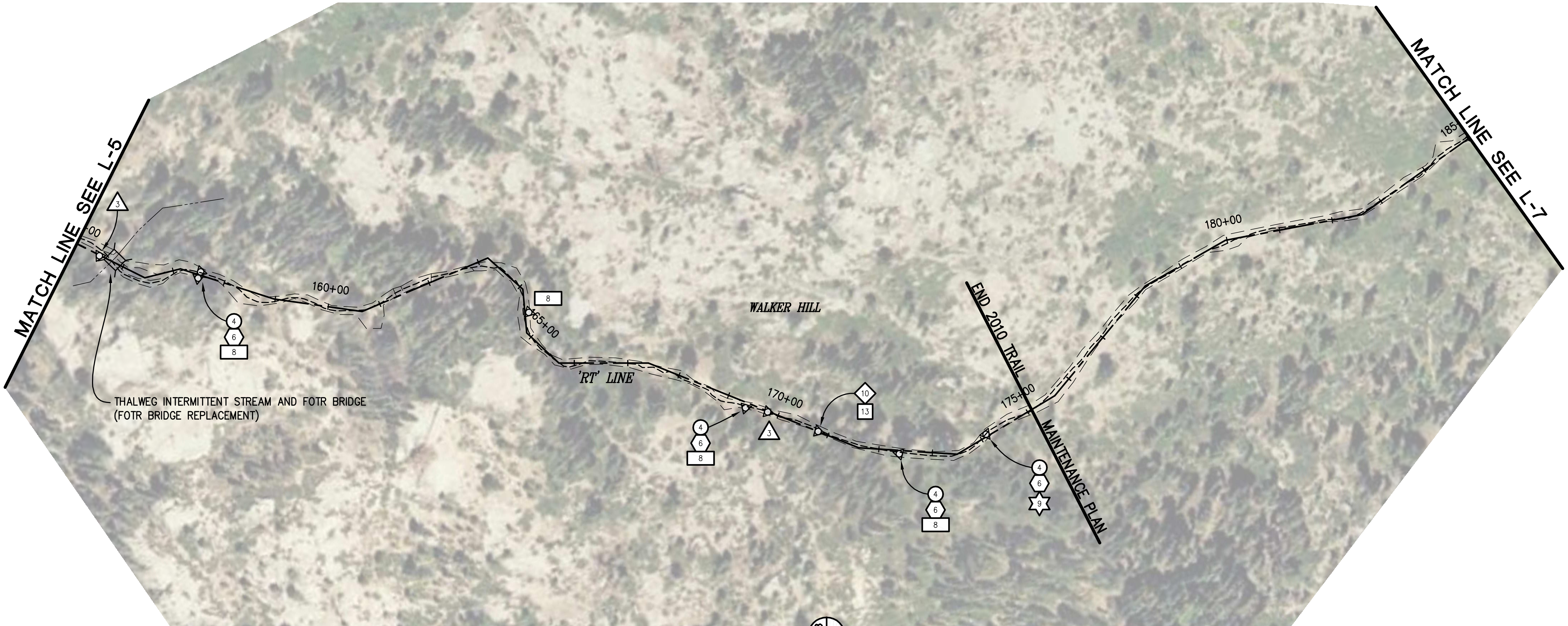
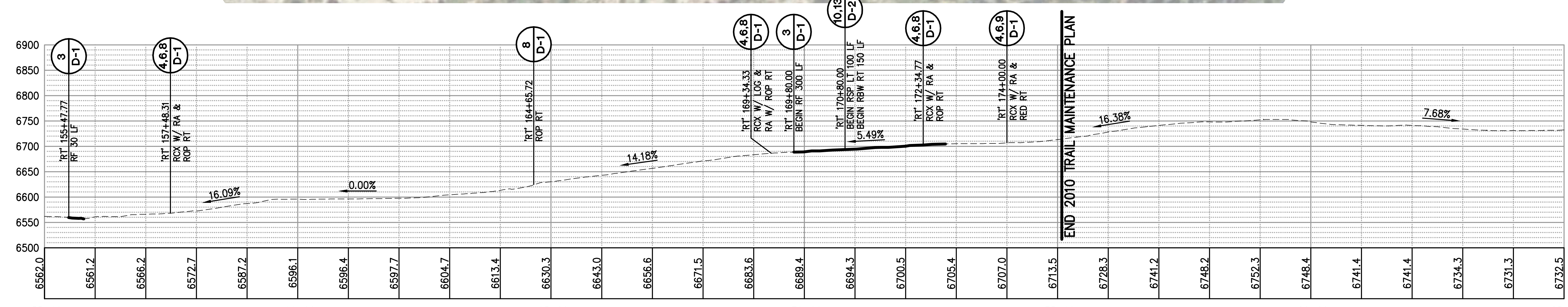
ROAD NUMBER: ----	

EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

RUBICON TRAIL SATURATED SOIL
WATER QUALITY PROTECTION PLAN

SHEET L-5
7 OF 26
W.O. No. 99426





LAYOUT-'RT' LINE
SCALE: 1" = 100' H,V

ORIGINAL SCALE IS IN INCHES
Drawing name: C:\Civil 3D Projects\99418 Rubicon Trail Maintenance\CADD Files\Sheets\Rubicon Trail 2010.dwg Layout Tab: L-6 Dec 07,2010 – 10:28am SMcVey

FOR REDUCED PLANS 0 1 2

REVISION			
NUMBER	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER STEVE PETER KOOYMAN No. 55757 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF :
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DATE: 11/24/10

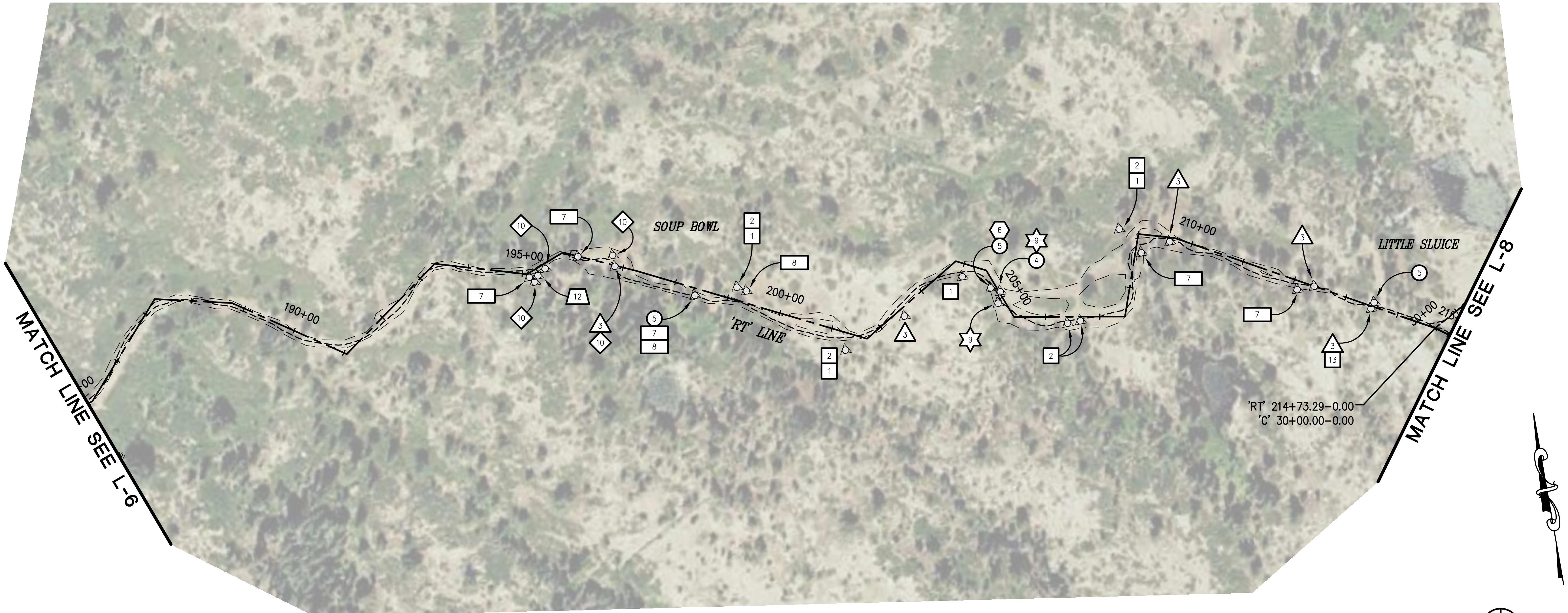
DESIGNED: SPK	DRAWN: SGM
CHECKED: SPK	DATE: 12/14/10
ROAD NUMBER: ----	

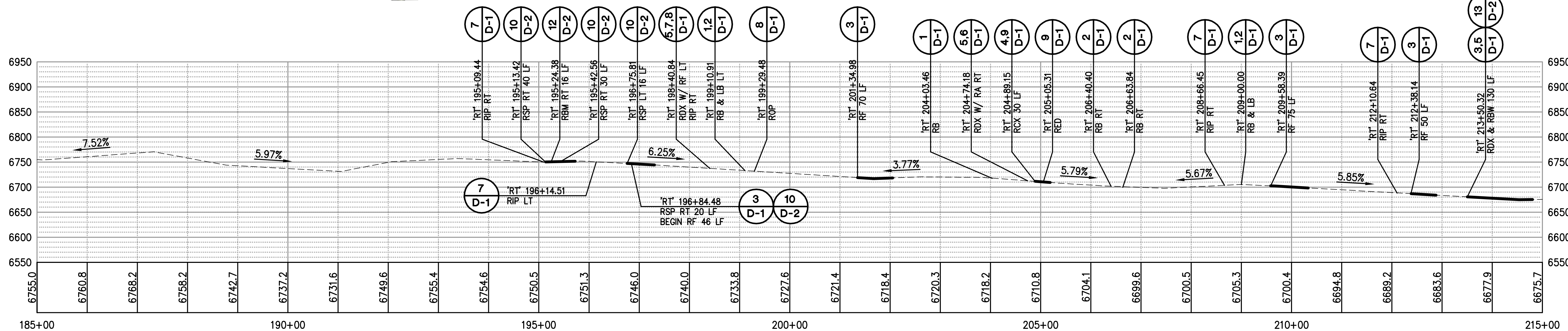
EL DORADO COUNTY DEPT. OF TRANSPORTATION

EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

RUBICON TRAIL SATURATED SOIL
WATER QUALITY PROTECTION PLAN

SHEET L-6
8 OF 26
W.O. No. 99426





LAYOUT-'RT' LINE
SCALE: 1" = 100' H,V

ORIGINAL SCALE IS IN INCHES FOR REDUCED PLANS

Drawing name: C:\Civil 3D Projects\99418 Rubicon Trail Maintenance\CADD Files\Sheets\Rubicon Trail 2010.dwg Layout Tab: L-7 Dec 07,2010 – 10:34am SMcVey

REVISION	NUMBER	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER STEVE PETER KOOYMAN No. 55757 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA

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CHECKED: SPK	DATE: 12/14/10
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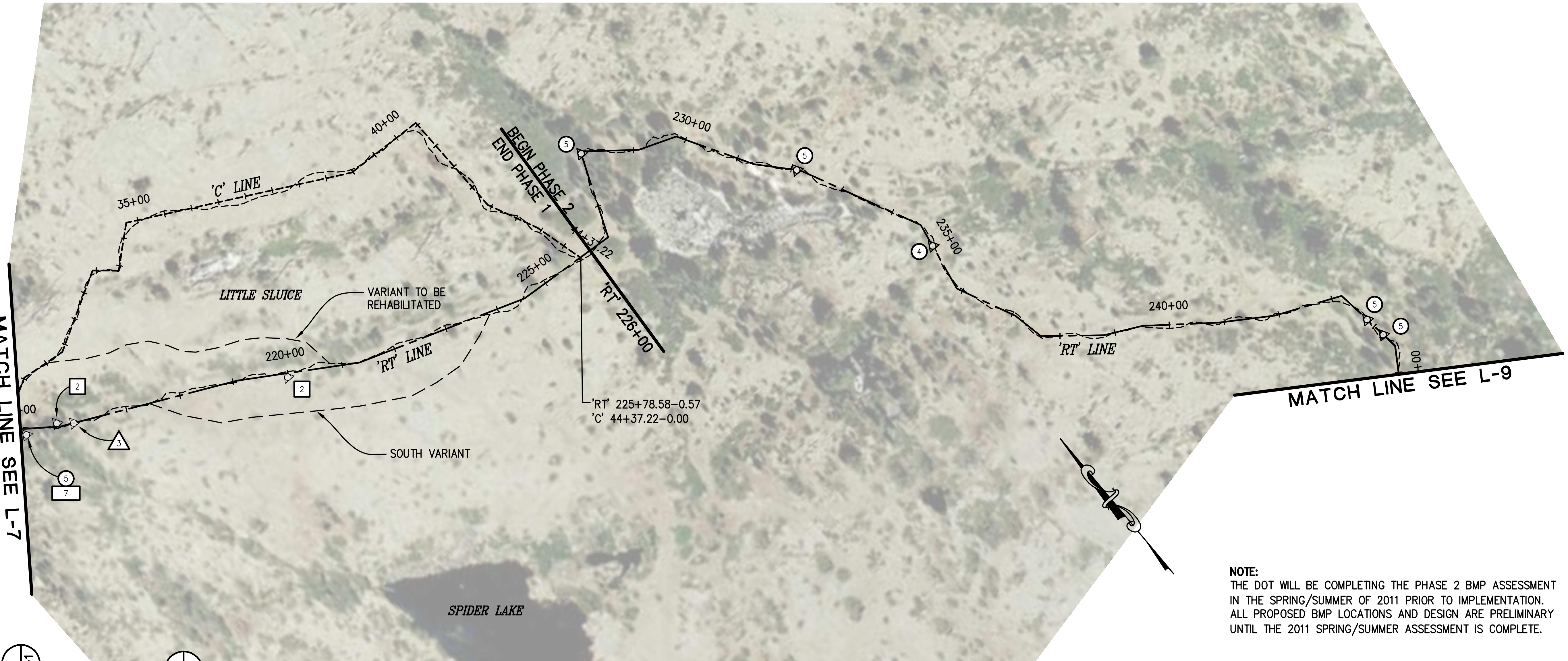
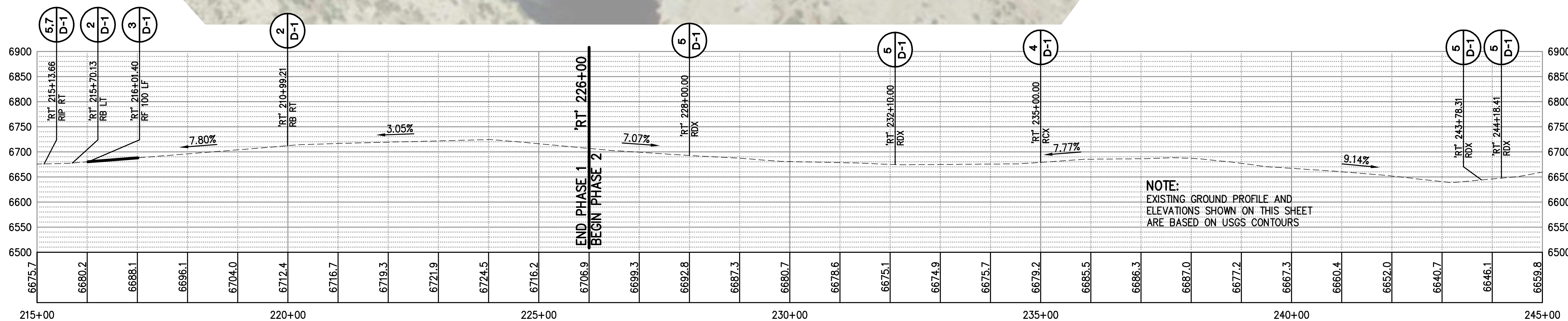
EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

RUBICON TRAIL SATURATED SOIL WATER QUALITY PROTECTION PLAN

SHEET L-7
9 OF 26
W.O. No. 99426



NOTE:
THE DOT WILL BE COMPLETING THE PHASE 2 BMP ASSESSMENT IN THE SPRING/SUMMER OF 2011 PRIOR TO IMPLEMENTATION. ALL PROPOSED BMP LOCATIONS AND DESIGN ARE PRELIMINARY UNTIL THE 2011 SPRING/SUMMER ASSESSMENT IS COMPLETE.



NOTE:
EXISTING GROUND PROFILE AND ELEVATIONS SHOWN ON THIS SHEET ARE BASED ON USGS CONTOURS

LAYOUT-'RT' LINE
SCALE: 1" = 100' H,V

ORIGINAL SCALE IS IN INCHES FOR REDUCED PLANS
Drawing name: C:\Civil 3D Projects\99418 Rubicon Trail Maintenance\CADD Files\Sheets\Rubicon Trail 2010.dwg Layout Tab: L-8 Dec 09,2010 - 10:59am SMcVey

REVISION			
NUMBER	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER — STEVE PETER KOOYMAN — No. 55757 — Exp. 12-31-10 — CIVIL — STATE OF CALIFORNIA

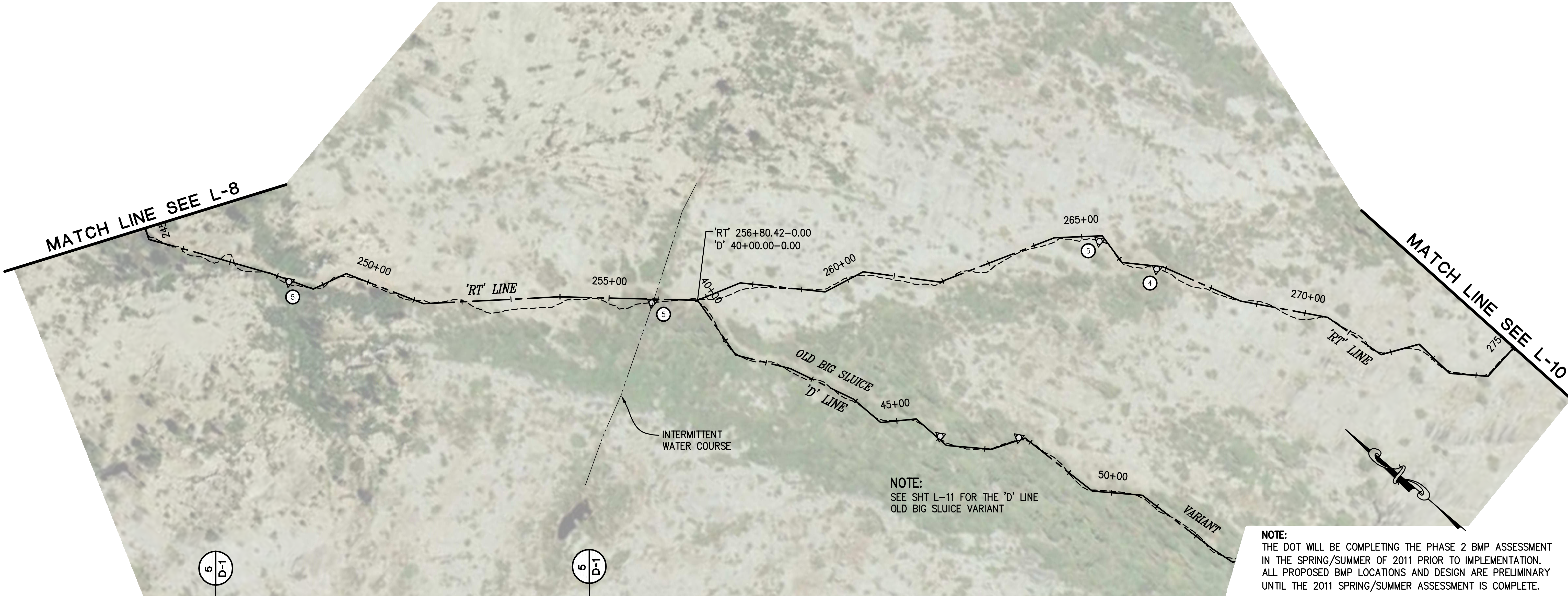
PREPARED UNDER THE SUPERVISION OF :
REGISTERED CIVIL ENGINEER
11/24/10
DATE:

DESIGNED: SPK	DRAWN: SGM
CHECKED: SPK	DATE: 12/14/10
ROAD NUMBER: ----	

EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

RUBICON TRAIL SATURATED SOIL WATER QUALITY PROTECTION PLAN

SHEET L-8
10 OF 26
W.O. No. 99426



NOTE:
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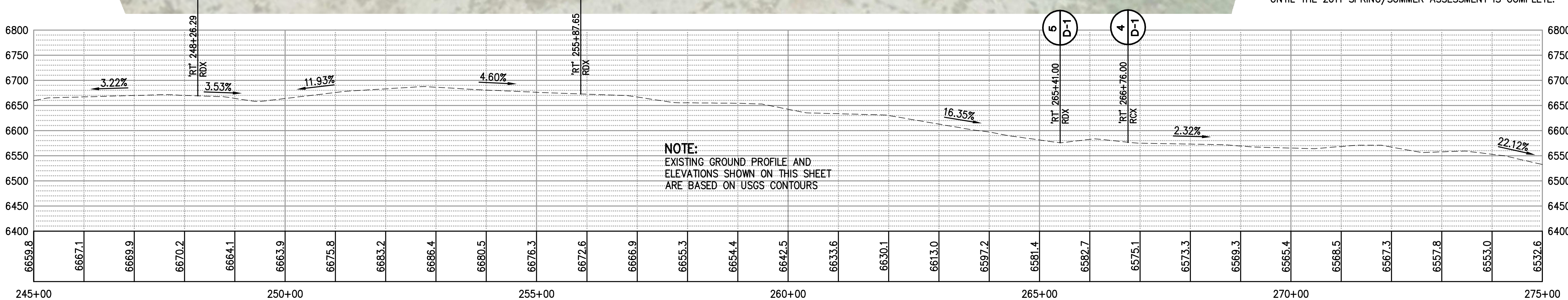

LAYOUT-'RT' LINE
SCALE: 1" = 100' H,V

REVISION			
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REGISTERED PROFESSIONAL ENGINEER
STEVE PETER KOOYMAN
No. 55757
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CIVIL
STATE OF CALIFORNIA

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11/24/10
DATE:

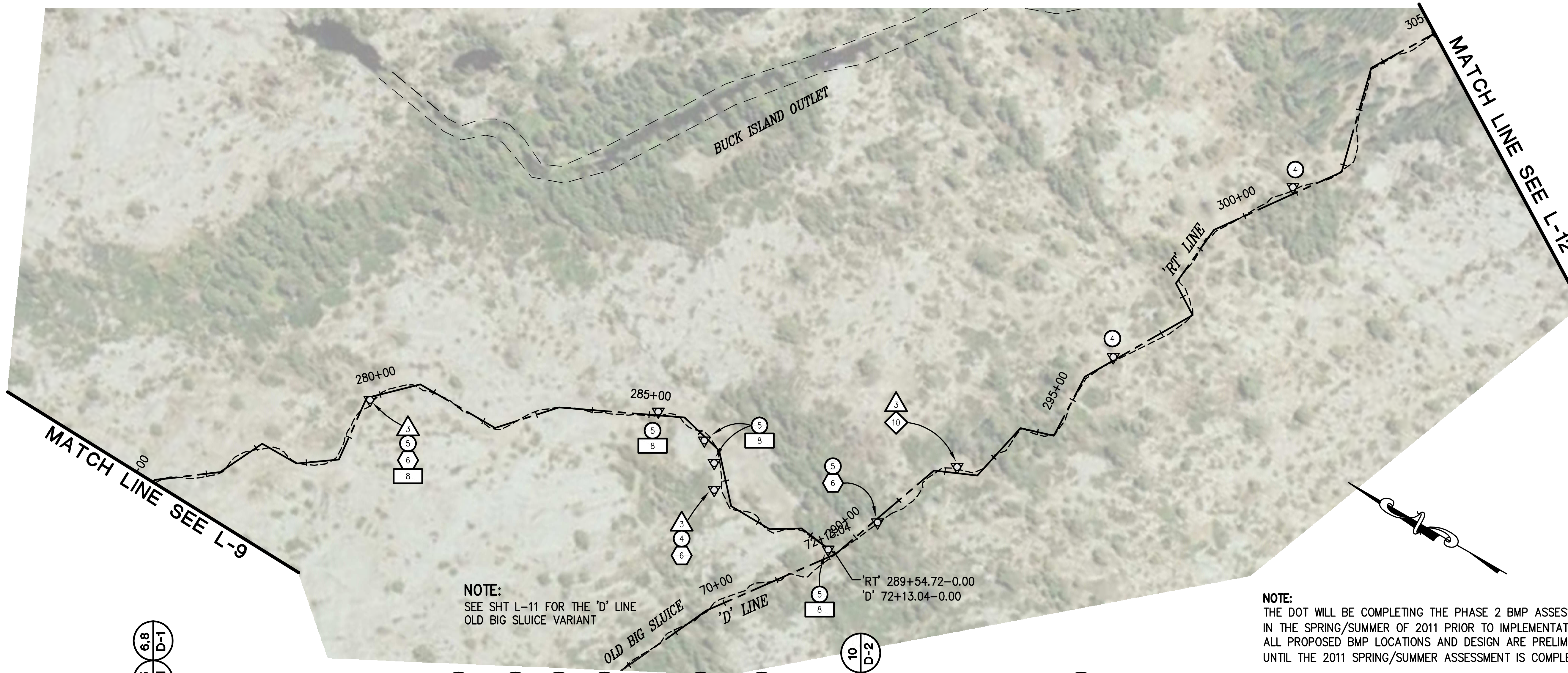
DESIGNED:	DRAWN:
SPK	SGM
CHECKED:	DATE:
SPK	12/14/10
ROAD NUMBER:	----

EL DORADO COUNTY DOT DEPT. OF TRANSPORTATION

EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

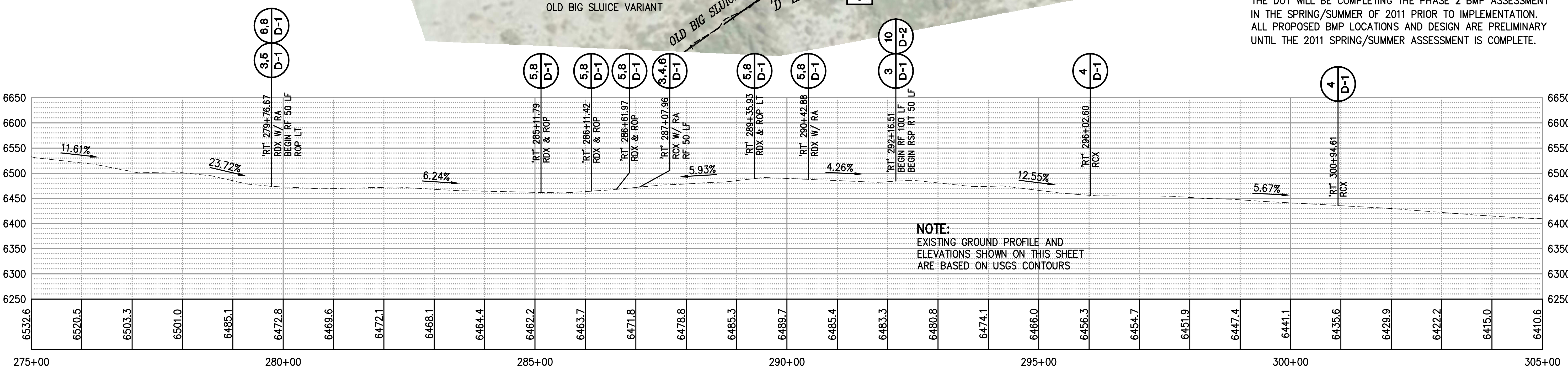
RUBICON TRAIL SATURATED SOIL
WATER QUALITY PROTECTION PLAN

SHEET
L-9
11 OF 26
W.O. No.
99426



NOTE:
SEE SHT L-11 FOR THE 'D' LINE OLD BIG SLUICE VARIANT

NOTE:
THE DOT WILL BE COMPLETING THE PHASE 2 BMP ASSESSMENT IN THE SPRING/SUMMER OF 2011 PRIOR TO IMPLEMENTATION. ALL PROPOSED BMP LOCATIONS AND DESIGN ARE PRELIMINARY UNTIL THE 2011 SPRING/SUMMER ASSESSMENT IS COMPLETE.



NOTE:
EXISTING GROUND PROFILE AND ELEVATIONS SHOWN ON THIS SHEET ARE BASED ON USGS CONTOURS

LAYOUT-'RT' LINE
SCALE: 1" = 100' H,V

REVISION	NUMBER	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER STEVE PETER KOOYMAN No. 55757 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA

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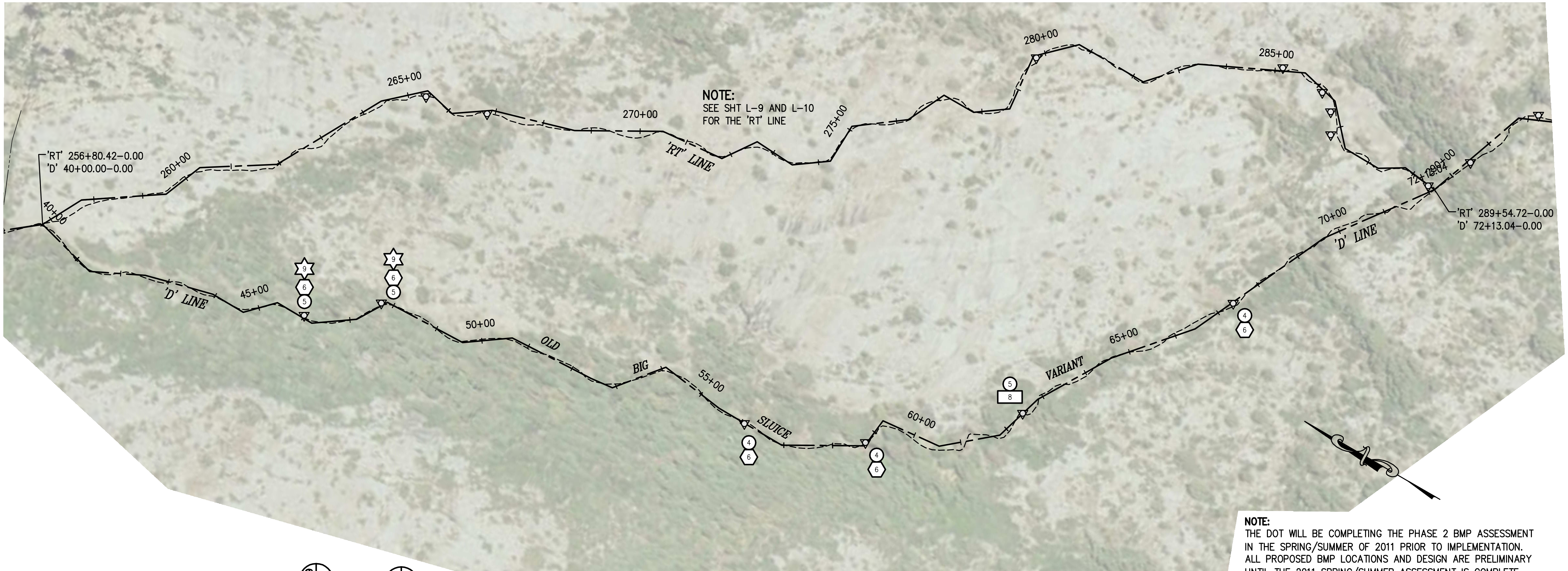
EL DORADO COUNTY DOT DEPT. OF TRANSPORTATION

EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

RUBICON TRAIL SATURATED SOIL
WATER QUALITY PROTECTION PLAN

SHEET L-10
12 OF 26
W.O. No. 99426

Drawing name: C:\Civil 3D Projects\99418 Rubicon Trail Maintenance\CADD Files\Sheets\Rubicon Trail 2010.dwg Layout Tab: L-11 Dec 07,2010 - 11:54am SMcVey



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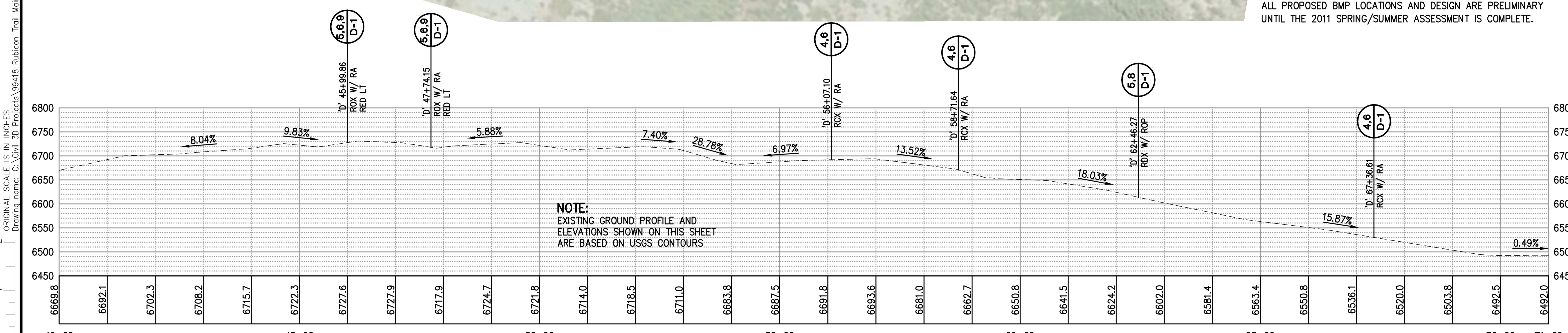

NOTE:
EXISTING GROUND PROFILE AND ELEVATIONS SHOWN ON THIS SHEET ARE BASED ON USGS CONTOURS

LAYOUT-'D' LINE OLD BIG SLUICE VARIANT
SCALE: 1" = 100' H,V

ORIGINAL SCALE IS IN INCHES FOR REDUCED PLANS

REVISION			
NUMBER	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER — STEVE PETER KOOYMAN — No. 55757 — Exp. 12-31-10 — CIVIL — STATE OF CALIFORNIA

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EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

RUBICON TRAIL SATURATED SOIL WATER QUALITY PROTECTION PLAN

SHEET L-11
13 OF 26
W.O. No. 99426

NOTE:
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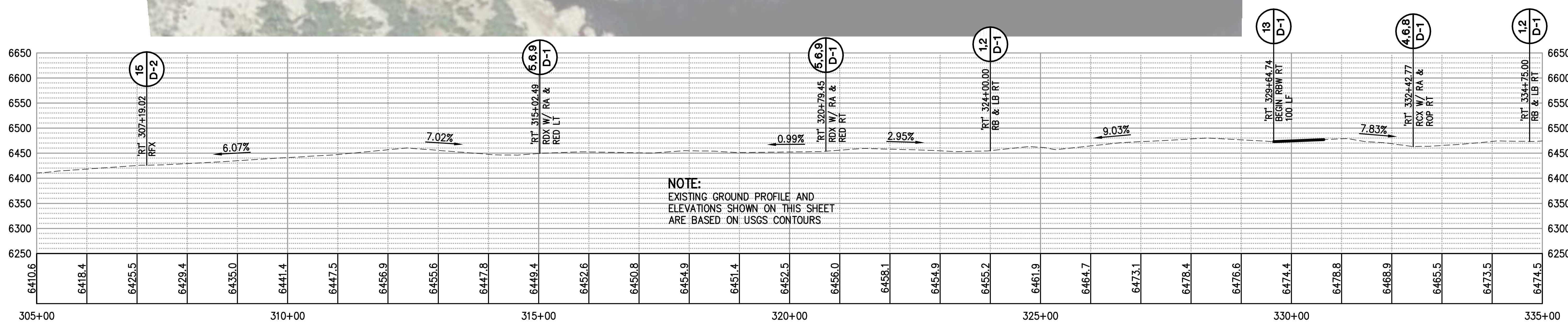


NOTE:
EXISTING GROUND PROFILE AND ELEVATIONS SHOWN ON THIS SHEET ARE BASED ON USGS CONTOURS

LAYOUT-'RT' LINE
SCALE: 1" = 100' H,V

ORIGINAL SCALE IS IN INCHES FOR REDUCED PLANS

Drawing name: C:\Civil 3D Projects\99418 Rubicon Trail Maintenance\CADD Files\Sheets\Rubicon Trail 2010.dwg Layout Tab: L-12 Dec 07,2010 - 11:01am SMcVey

REVISION | NUMBER | DATE | DESCRIPTION | BY

REGISTERED PROFESSIONAL ENGINEER STEVE PETER KOOYMAN No. 55757 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF: REGISTERED CIVIL ENGINEER 11/24/10 DATE:

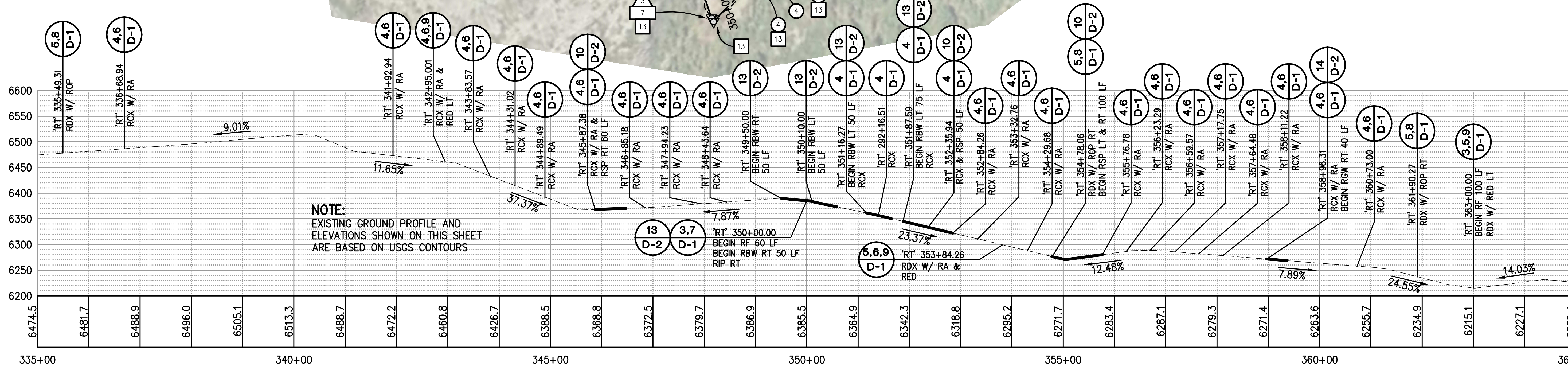
DESIGNED: SPK | DRAWN: SGM | CHECKED: SPK | DATE: 12/14/10 | ROAD NUMBER: ----

EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION

RUBICON TRAIL SATURATED SOIL WATER QUALITY PROTECTION PLAN

SHEET L-12 14 OF 26 W.O. No. 99426

NOTE:
THE DOT WILL BE COMPLETING THE PHASE 2 BMP ASSESSMENT IN THE SPRING/SUMMER OF 2011 PRIOR TO IMPLEMENTATION. ALL PROPOSED BMP LOCATIONS AND DESIGN ARE PRELIMINARY UNTIL THE 2011 SPRING/SUMMER ASSESSMENT IS COMPLETE.



LAYOUT-'RT' LINE
SCALE: 1" = 100' H,V

ORIGINAL SCALE IS IN INCHES
FOR REDUCED PLANS
Drawing name: C:\Civil 3D Projects\99418 Rubicon Trail Maintenance\CADD Files\Sheets\Rubicon Trail 2010.dwg Layout Tab: L-13 Dec 07,2010 – 11:46am SMcVey

REVISION			
NUMBER	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER STEVE PETER KOOYMAN No. 55757 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF:
REGISTERED CIVIL ENGINEER
11/24/10
DATE:

DESIGNED: SPK	DRAWN: SGM
CHECKED: SPK	DATE: 12/14/10
ROAD NUMBER: ----	

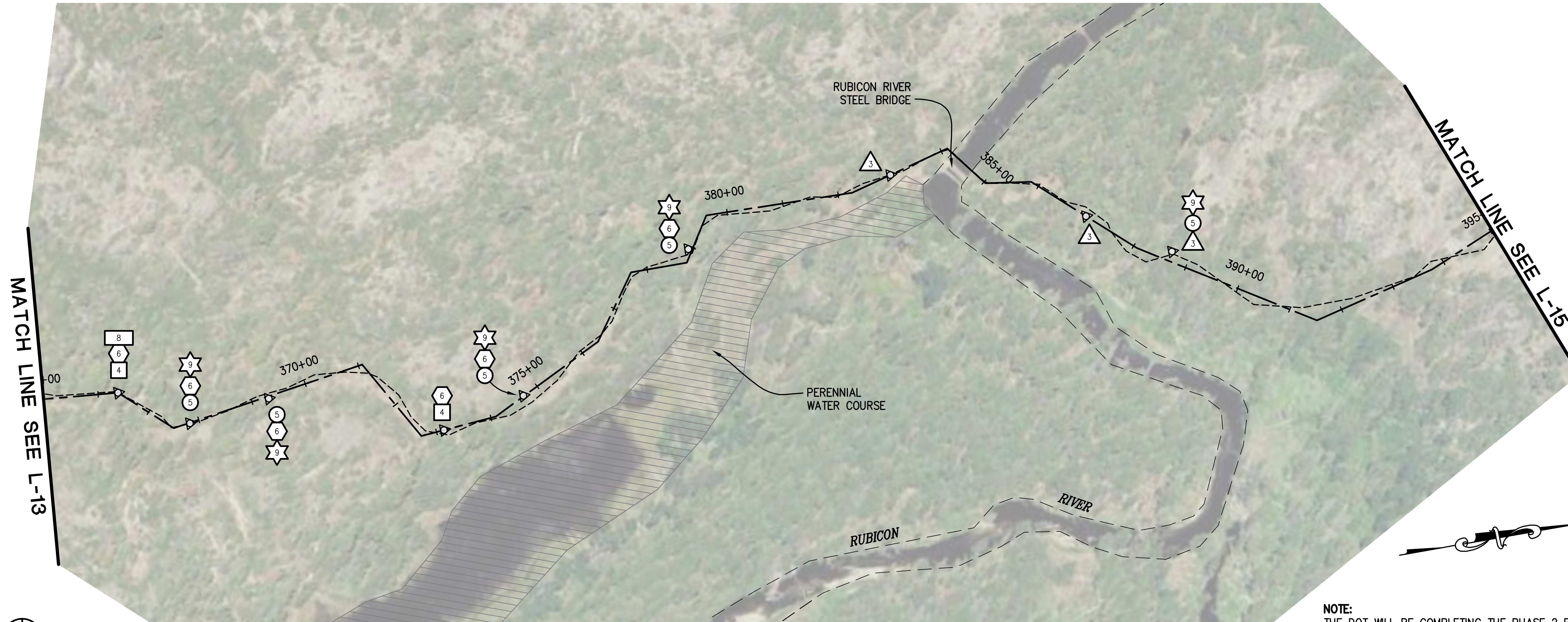
EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

RUBICON TRAIL SATURATED SOIL
WATER QUALITY PROTECTION PLAN

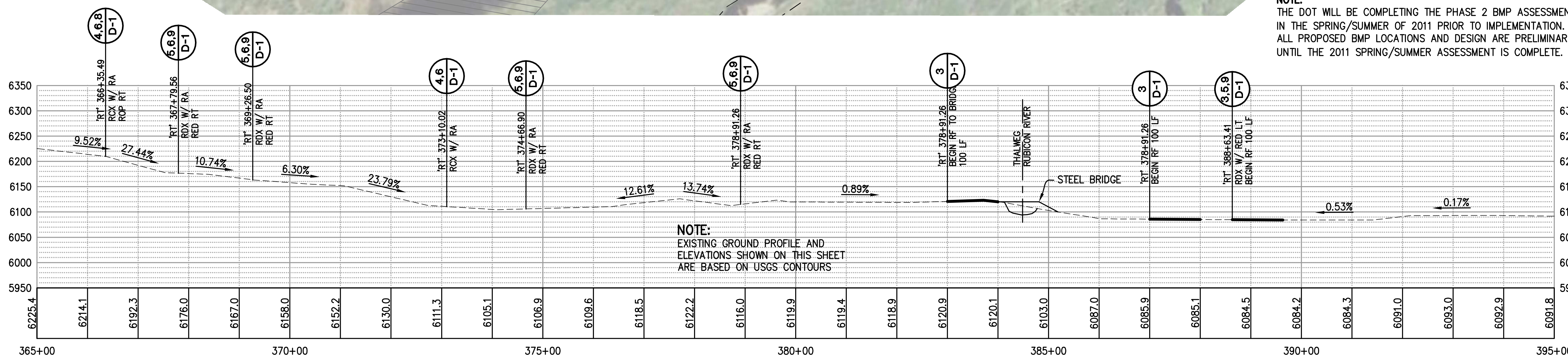
SHEET
L-13
15 OF 26
W.O. No.
99426

ORIGINAL SCALE IS IN INCHES FOR REDUCED PLANS

Drawing name: C:\Civil 3D Projects\99418 Rubicon Trail Maintenance\CADD Files\Sheets\Rubicon Trail 2010.dwg Layout Tab: L-14 Dec 07,2010 - 11:12am SMcVey



NOTE:
THE DOT WILL BE COMPLETING THE PHASE 2 BMP ASSESSMENT IN THE SPRING/SUMMER OF 2011 PRIOR TO IMPLEMENTATION. ALL PROPOSED BMP LOCATIONS AND DESIGN ARE PRELIMINARY UNTIL THE 2011 SPRING/SUMMER ASSESSMENT IS COMPLETE.



NOTE:
EXISTING GROUND PROFILE AND ELEVATIONS SHOWN ON THIS SHEET ARE BASED ON USGS CONTOURS

LAYOUT-'RT' LINE
SCALE: 1" = 100' H,V

REVISION			
NUMBER	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER STEVE PETER KOOYMAN No. 55757 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF:
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11/24/10
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ROAD NUMBER: ----	

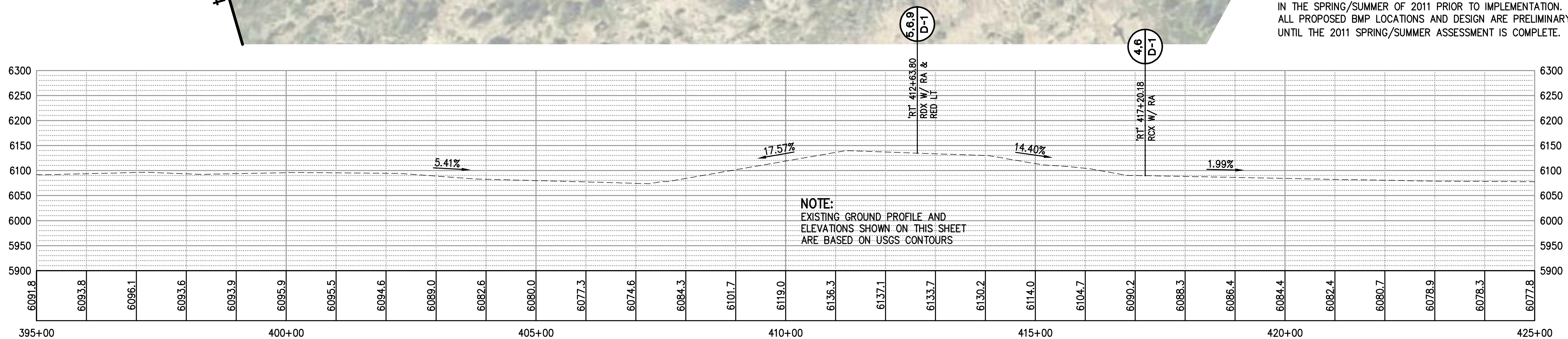
EL DORADO COUNTY DOT DEPT. OF TRANSPORTATION

EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

RUBICON TRAIL SATURATED SOIL
WATER QUALITY PROTECTION PLAN

SHEET L-14
16 OF 26
W.O. No. 99426

NOTE:
THE DOT WILL BE COMPLETING THE PHASE 2 BMP ASSESSMENT IN THE SPRING/SUMMER OF 2011 PRIOR TO IMPLEMENTATION. ALL PROPOSED BMP LOCATIONS AND DESIGN ARE PRELIMINARY UNTIL THE 2011 SPRING/SUMMER ASSESSMENT IS COMPLETE.



NOTE:
EXISTING GROUND PROFILE AND ELEVATIONS SHOWN ON THIS SHEET ARE BASED ON USGS CONTOURS

LAYOUT-'RT' LINE
SCALE: 1" = 100' H,V

REVISION	NUMBER	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER STEVE PETER KOOYMAN No. 55757 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF :
REGISTERED CIVIL ENGINEER
11/24/10
DATE:

DESIGNED: SPK	DRAWN: SGM
CHECKED: SPK	DATE: 12/14/10
ROAD NUMBER: ----	

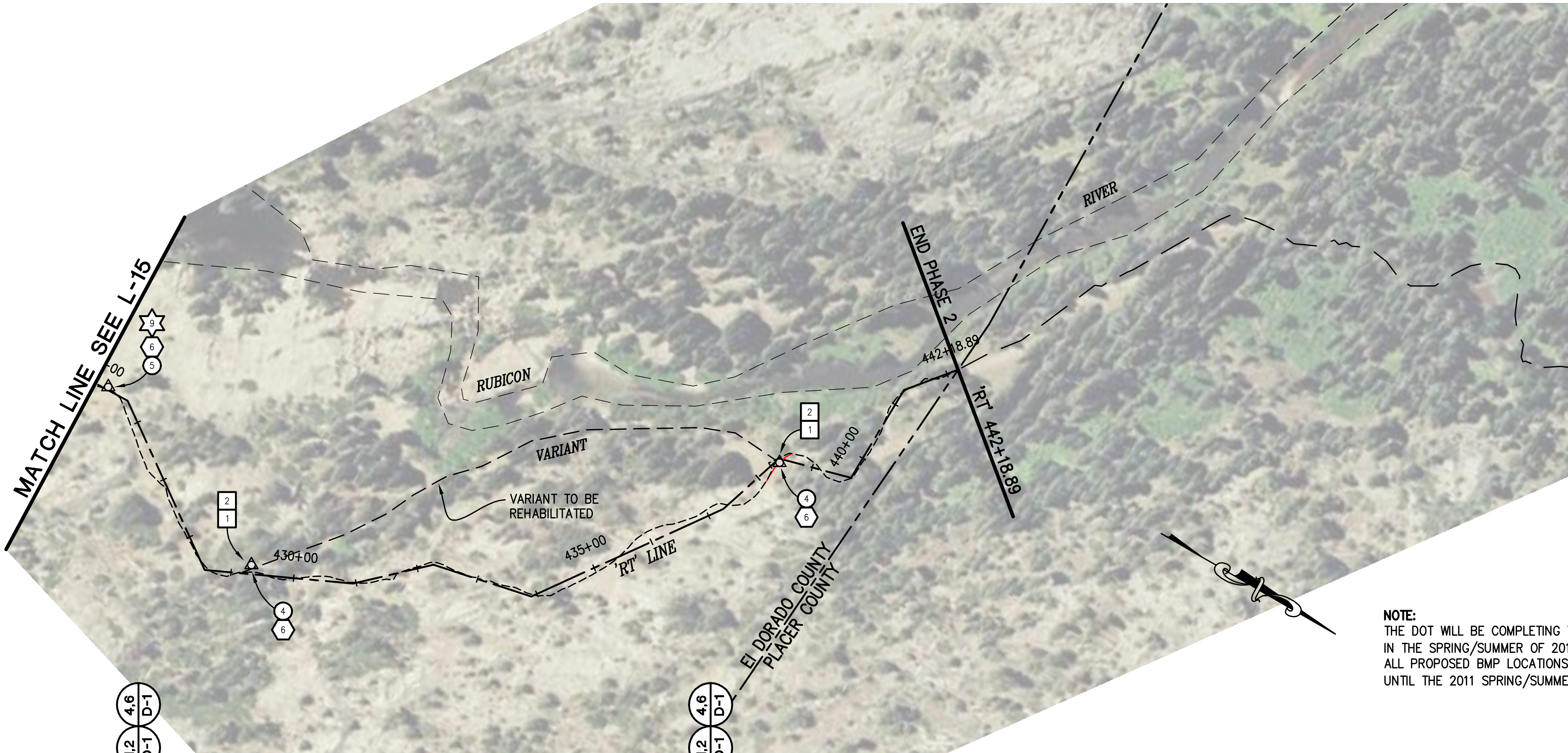
EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

RUBICON TRAIL SATURATED SOIL WATER QUALITY PROTECTION PLAN

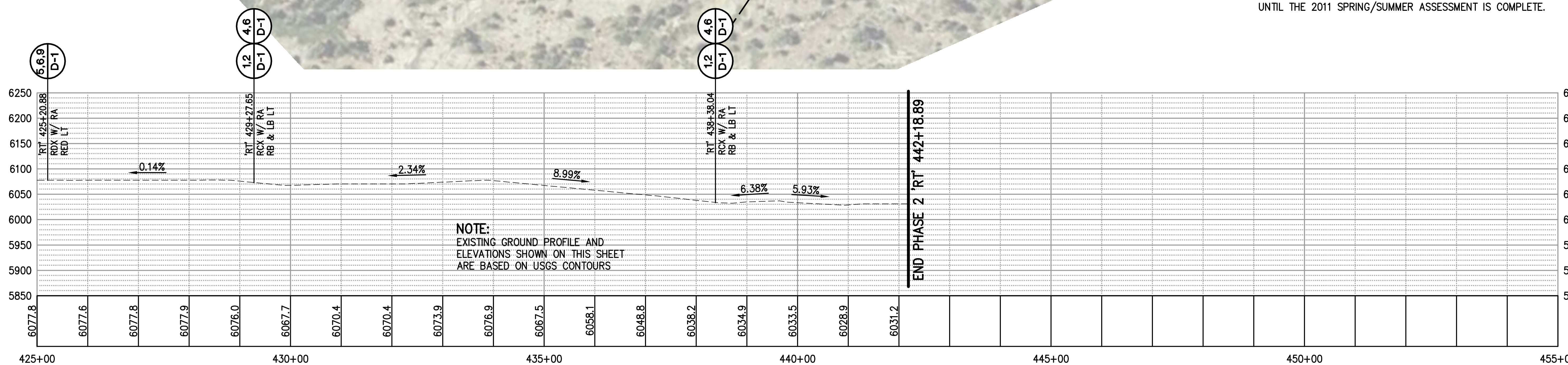
SHEET L-15
17 OF 26
W.O. No. 99426

ORIGINAL SCALE IS IN INCHES FOR REDUCED PLANS
0 1 2

Drawing name: C:\Civil 3D Projects\99418 Rubicon Trail Maintenance\CADD Files\Sheets\Rubicon Trail 2010.dwg Layout Tab: L-15 Dec 07,2010 - 11:17am SMcVey



NOTE:
THE DOT WILL BE COMPLETING THE PHASE 2 BMP ASSESSMENT IN THE SPRING/SUMMER OF 2011 PRIOR TO IMPLEMENTATION. ALL PROPOSED BMP LOCATIONS AND DESIGN ARE PRELIMINARY UNTIL THE 2011 SPRING/SUMMER ASSESSMENT IS COMPLETE.



LAYOUT-'RT' LINE
SCALE: 1" = 100' H,V

REVISION			
NUMBER	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER — STEVE PETER KOOYMAN — No. 55757 — Exp. 12-31-10 — CIVIL — STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF :
REGISTERED CIVIL ENGINEER
11/24/10
DATE:

DESIGNED: SPK	DRAWN: SGM
CHECKED: SPK	DATE: 12/14/10
ROAD NUMBER: ----	

EL DORADO COUNTY DOT — DEPT. OF TRANSPORTATION

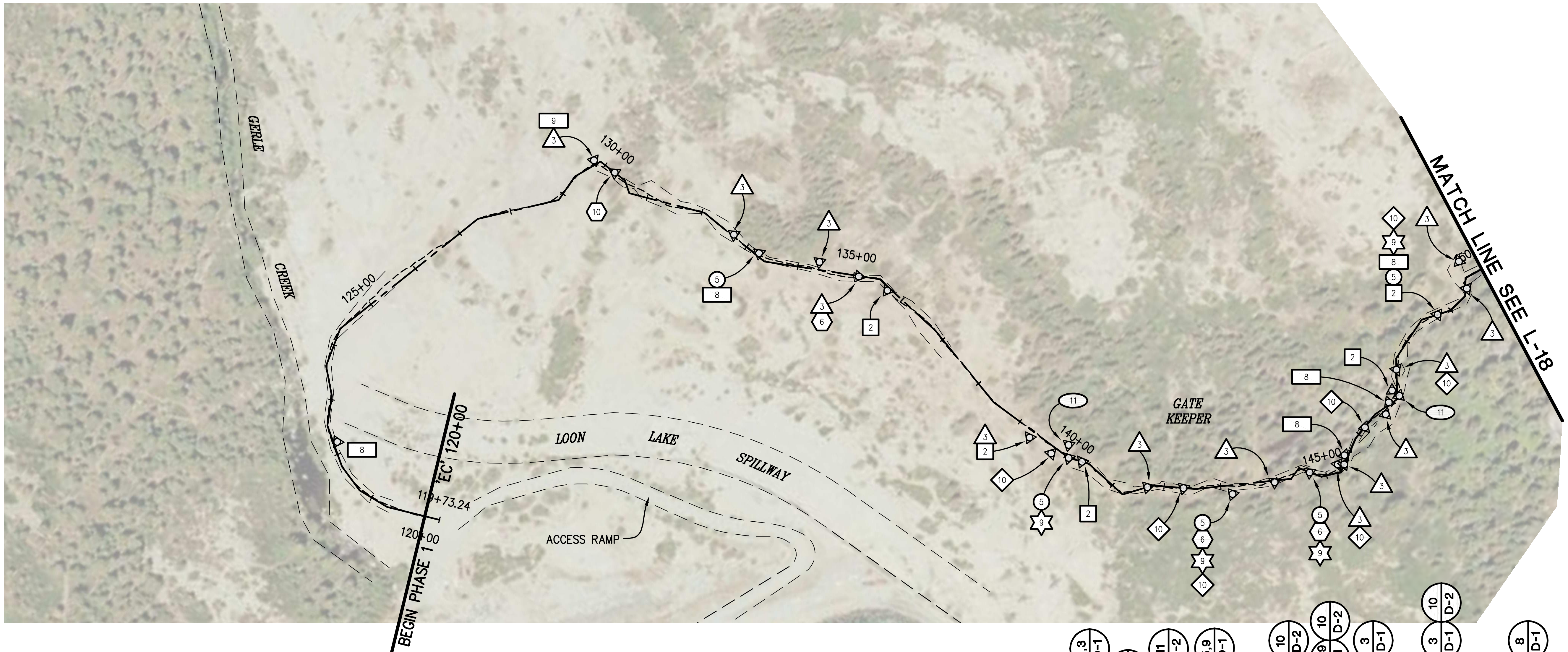
EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

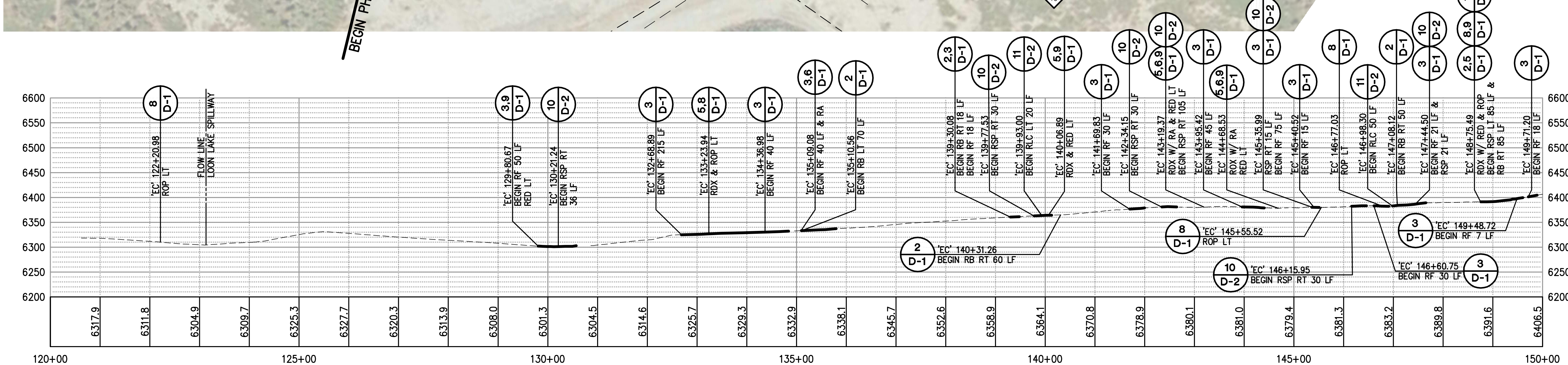
RUBICON TRAIL SATURATED SOIL WATER QUALITY PROTECTION PLAN

SHEET L-16
18 OF 26
W.O. No. 99426

ORIGINAL SCALE IS IN INCHES FOR REDUCED PLANS
0 1 2

Drawing name: C:\Civil 3D Projects\99418 Rubicon Trail Maintenance\CADD Files\Sheets\Rubicon Trail 2010.dwg Layout Tab: L-16 Dec 07,2010 – 11:23am SMcVey





LAYOUT-'EC' LINE
SCALE: 1" = 100' H,V

REVISION			
NUMBER	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER
STEVE PETER KOOYMAN
No. 55757
Exp. 12-31-10
CIVIL
STATE OF CALIFORNIA

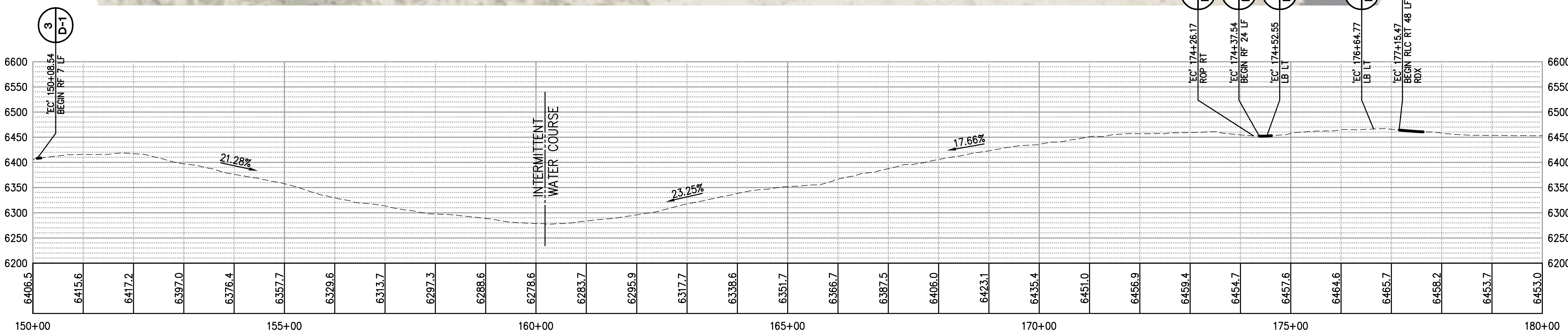
PREPARED UNDER THE SUPERVISION OF:
REGISTERED CIVIL ENGINEER
11/24/10
DATE:

DESIGNED:	DRAWN:
SPK	SGM
CHECKED: SPK	DATE: 12/14/10
ROAD NUMBER: ----	

EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

RUBICON TRAIL SATURATED SOIL
WATER QUALITY PROTECTION PLAN

SHEET
L-17
19 OF 26
W.O. No. 99426



LAYOUT-'EC' LINE
SCALE: 1" = 100' H,V

ORIGINAL SCALE IS IN INCHES
Drawing name: C:\Civil 3D Projects\99418 Rubicon Trail Maintenance\CADD Files\Sheets\Rubicon Trail 2010.dwg Layout Tab: L-18 Dec 07,2010 – 11:34am SMcVey

0 1 2

FOR REDUCED PLANS

REVISION			
NUMBER	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER
STEVE PETER KOOYMAN
No. 55757
Exp. 12-31-10
CIVIL
STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF :
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11/24/10
DATE:

DESIGNED: SPK	DRAWN: SGM
CHECKED: SPK	DATE: 12/14/10
ROAD NUMBER: ----	

EL DORADO COUNTY DOT
DEPT. OF TRANSPORTATION

EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

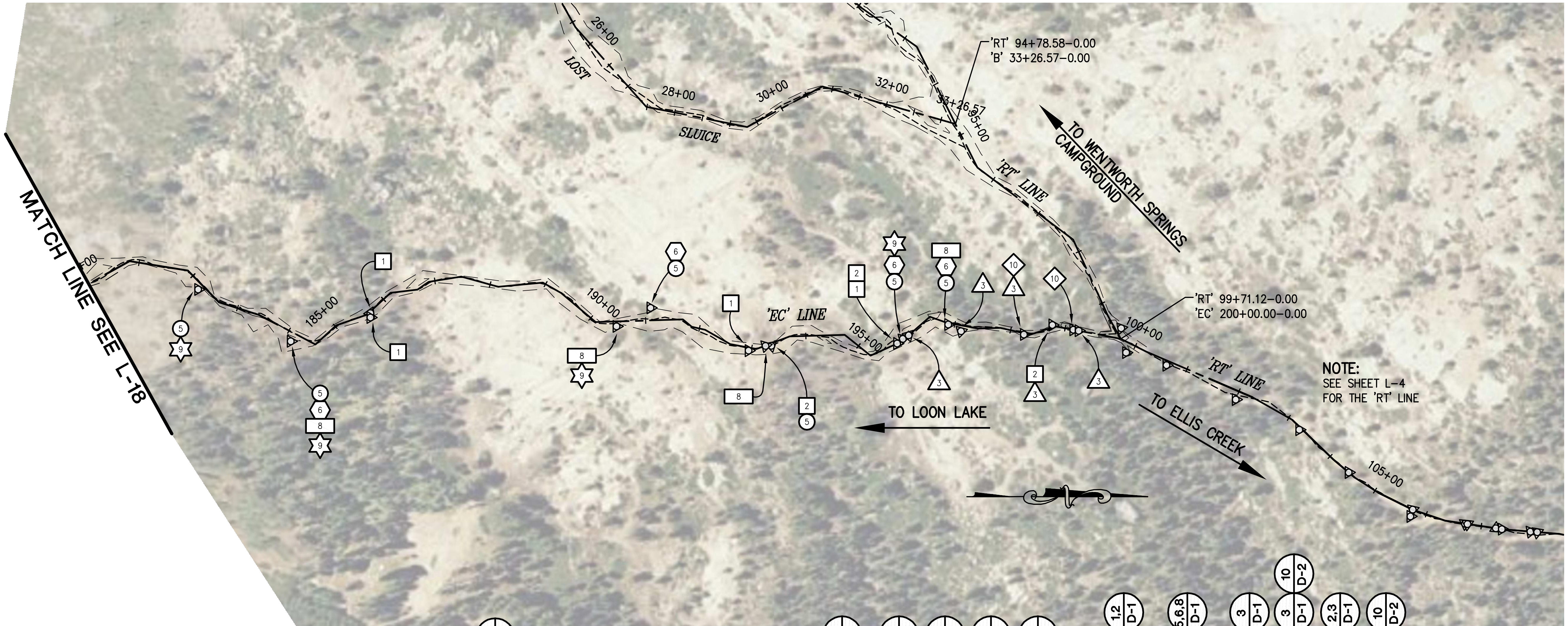
RUBICON TRAIL SATURATED SOIL
WATER QUALITY PROTECTION PLAN

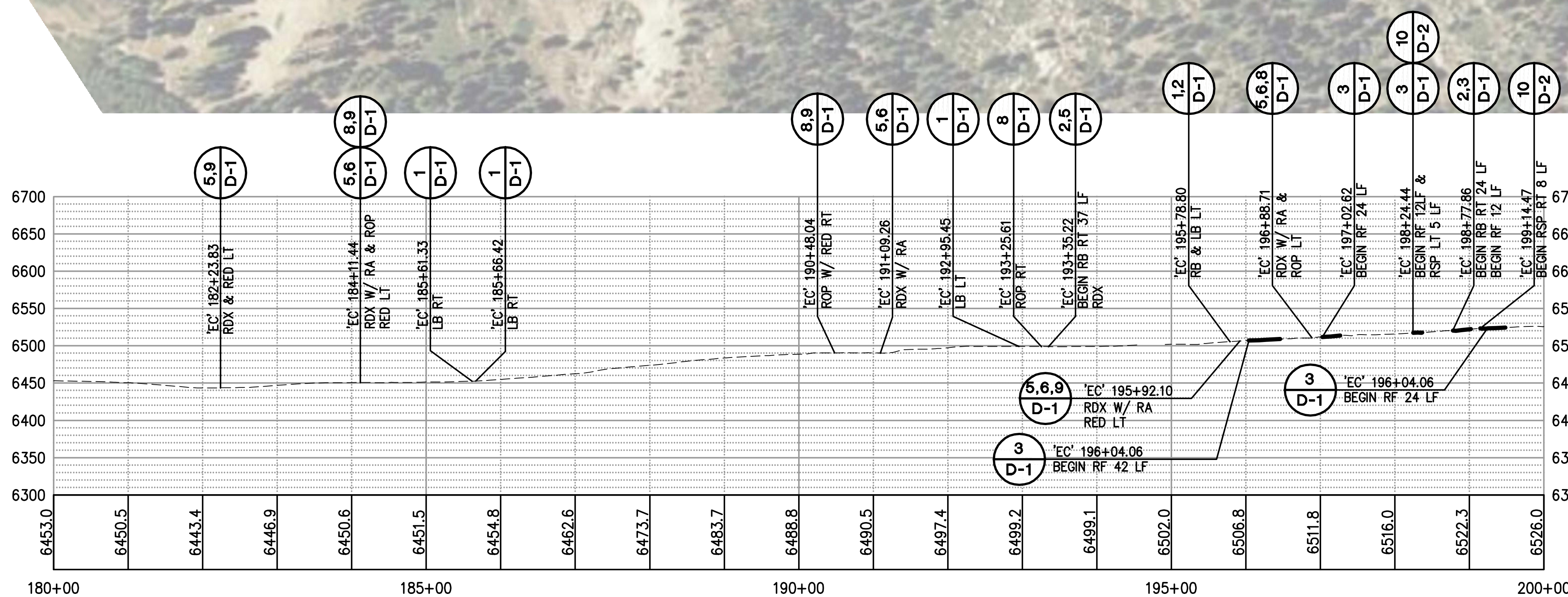
SHEET
L-18
20 OF 26
W.O. No. 99426

FOR REDUCED PLANS 0 1 2

ORIGINAL SCALE IS IN INCHES

Drawing name: C:\Civil 3D Projects\99418 Rubicon Trail Maintenance\CADD Files\Sheets\Rubicon Trail 2010.dwg Layout Tab: L-19 Dec 07,2010 – 11:39am SMcVey





LAYOUT-'EC' LINE
SCALE: 1" = 100' H,V

REVISION	NUMBER	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER STEVE PETER KOOYMAN No. 55757 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF :

REGISTERED CIVIL ENGINEER

DATE: 11/24/10

DESIGNED: SPK	DRAWN: SGM
CHECKED: SPK	DATE: 12/14/10
ROAD NUMBER: ----	

EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION

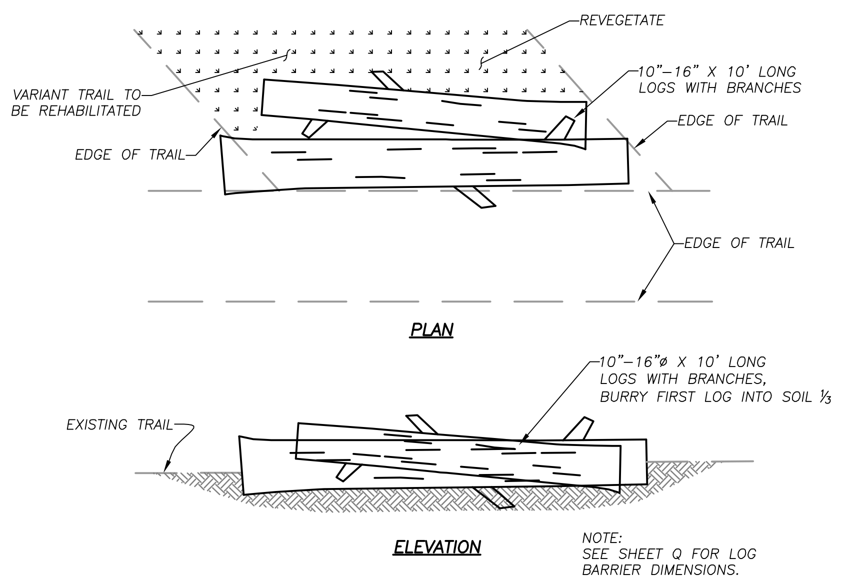
EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

RUBICON TRAIL SATURATED SOIL
WATER QUALITY PROTECTION PLAN

SHEET L-19

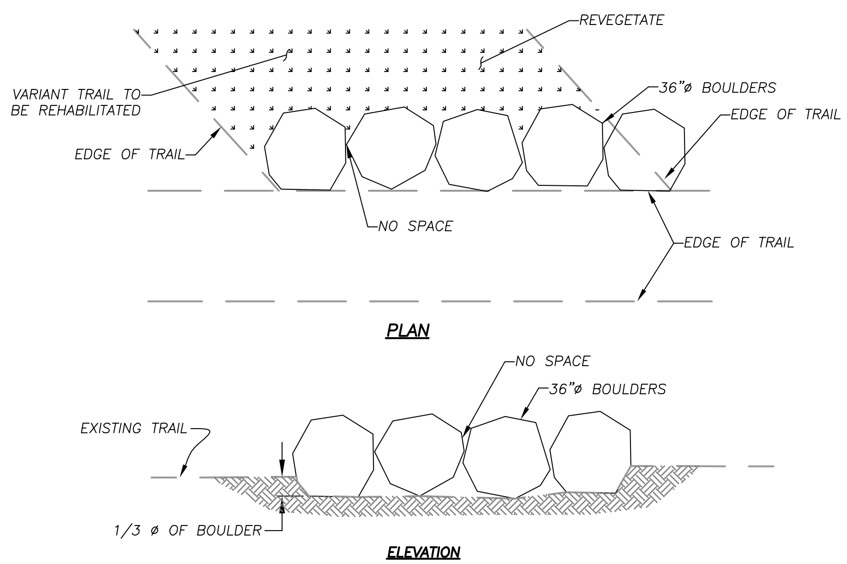
21 OF 26

W.O. No. 99426



1 / D-1 LOG BARRIER

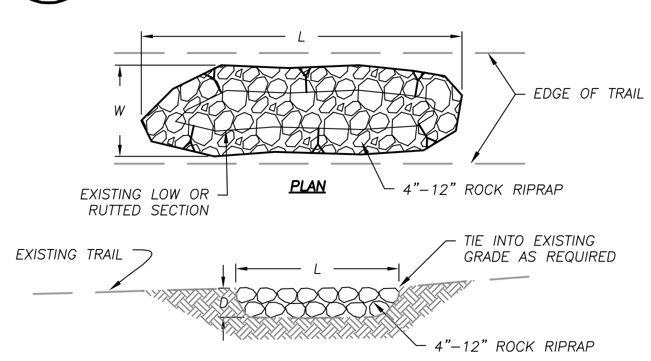
NTS



NOTE: SEE SHEET Q FOR ROCK BARRIER DIMENSIONS.

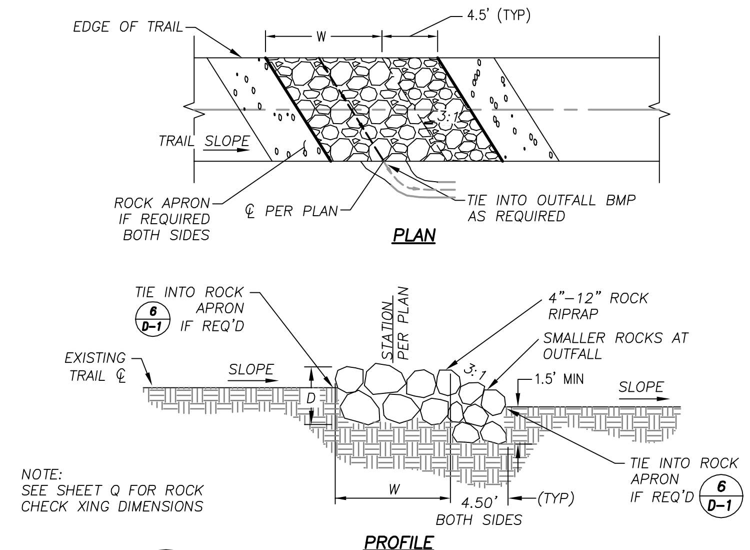
2 / D-1 ROCK BARRIER

NTS



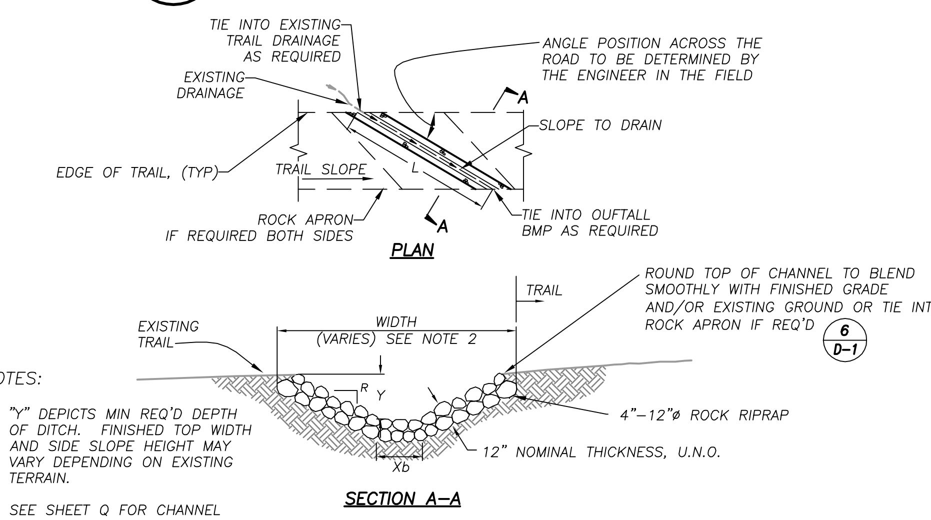
3 / D-1 ROCK FILL

NTS



4 / D-1 ROCK CHECK XING

NTS

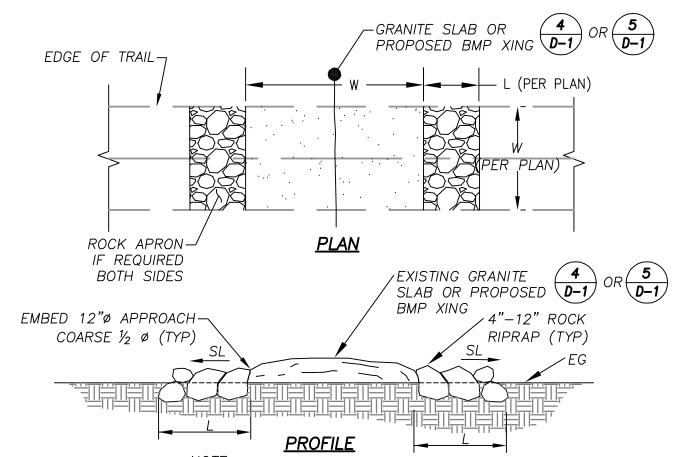


NOTES:

1. "Y" DEPICTS MIN REQ'D DEPTH OF DITCH. FINISHED TOP WIDTH AND SIDE SLOPE HEIGHT MAY VARY DEPENDING ON EXISTING TERRAIN.
2. SEE SHEET Q FOR CHANNEL DIMENSIONS.

5 / D-1 ROCK DITCH XING

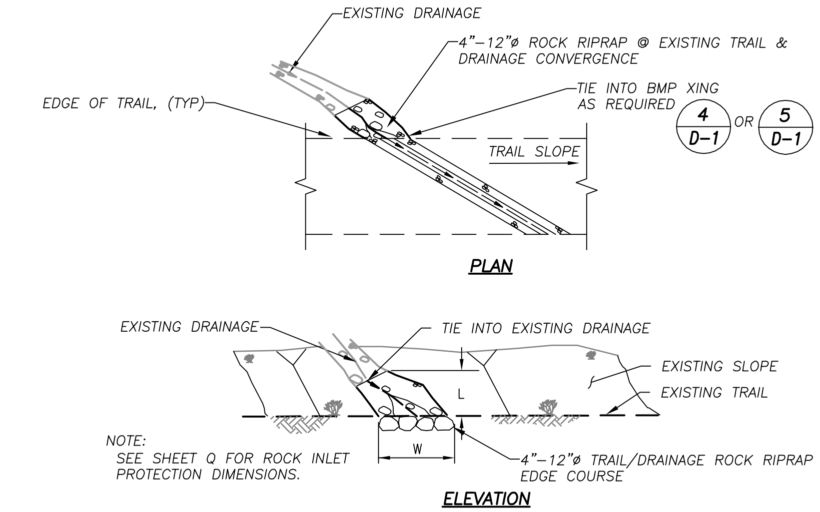
NTS



NOTE:
1. SEE SHEET Q FOR ROCK APRON DIMENSIONS.

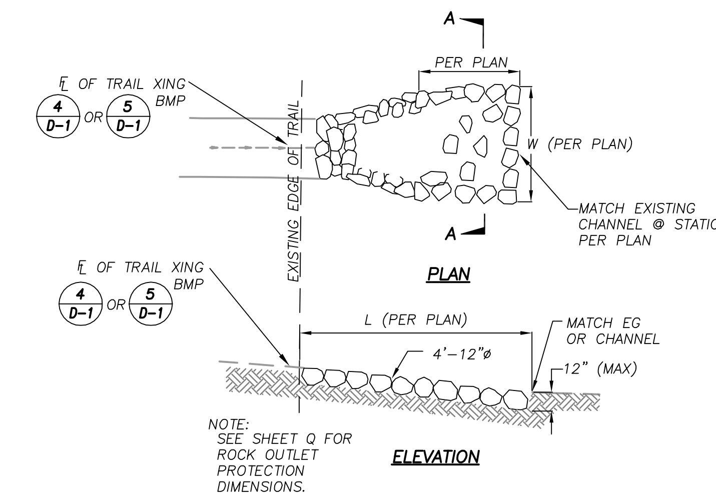
6 / D-1 ROCK APRON

NTS



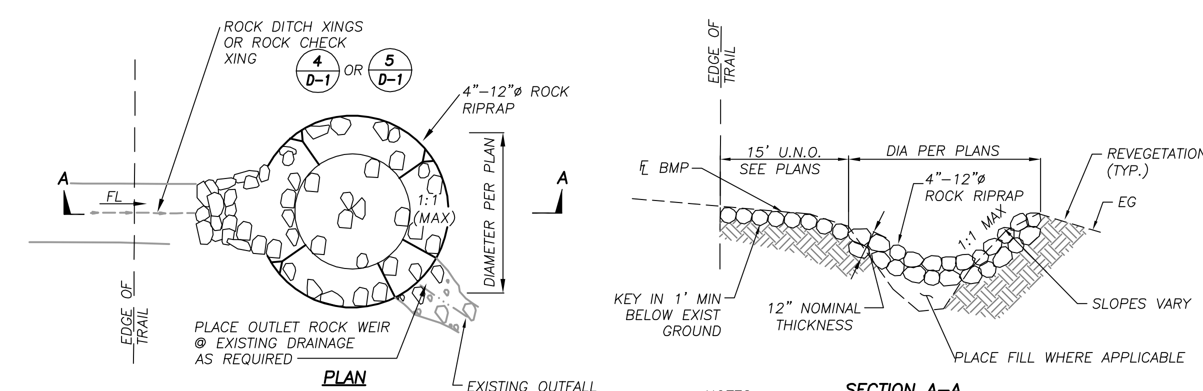
7 / D-1 ROCK INLET PROTECTION

NTS



8 / D-1 ROCK OUTLET PROTECTION

NTS



NOTES:

1. SEE SHEET Q FOR DIMENSIONS.
2. ARMOR OUTLET OF ROCK ENERGY DISSIPATOR IF REQUIRED AS DIRECTED BY ENGINEER.

9 / D-1 ROCK ENERGY DISSIPATOR

NTS

DETAILS
SCALE : AS SHOWN

ORIGINAL SCALE IS IN INCHES
Drawing name: C:\Civil 3D Projects\99418 Rubicon Trail Maintenance\CADD Files\Sheets\Detail Sheets.dwg Layout Tab: D-1 Dec 07,2010 – 2:30pm SMcVey

FOR REDUCED PLANS 0 1 2

REVISION			
NUMBER	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER STEVE PETER KOOYMAN No. 55757 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF :
REGISTERED CIVIL ENGINEER 11/24/10
DATE:

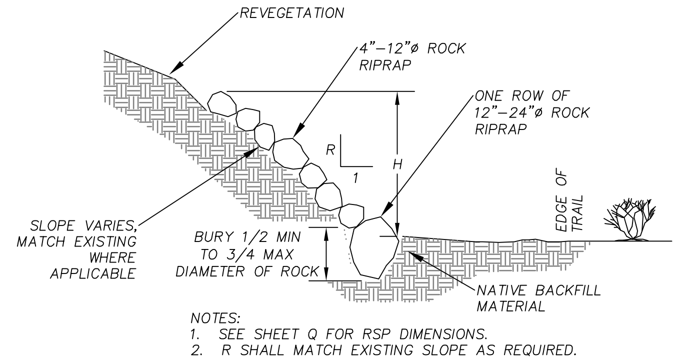
DESIGNED: SPK	DRAWN: JC
CHECKED: SPK	DATE: 12/14/10
ROAD NUMBER: –	

EL DORADO COUNTY DOT DEPT. OF TRANSPORTATION

EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

RUBICON TRAIL SATURATED SOIL
WATER QUALITY PROTECTION PLAN

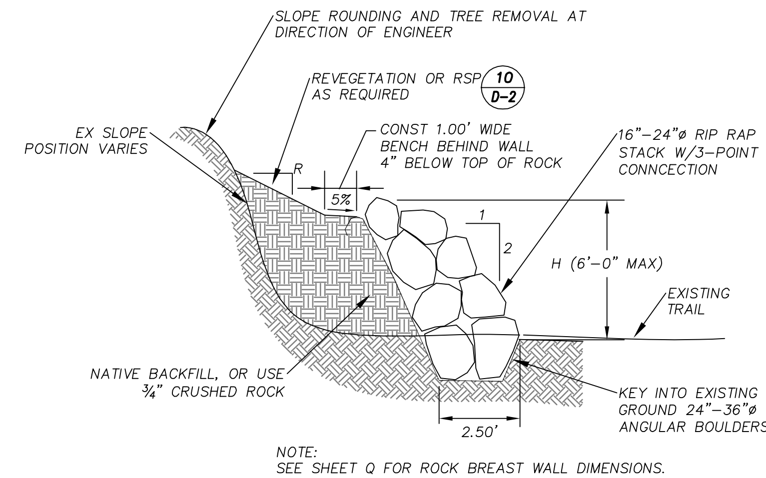
SHEET D-1
22 OF 26
W.O. No. 99426



NOTES:
1. SEE SHEET Q FOR RSP DIMENSIONS.
2. R SHALL MATCH EXISTING SLOPE AS REQUIRED.

10 / D-1 ROCK SLOPE PROTECTION

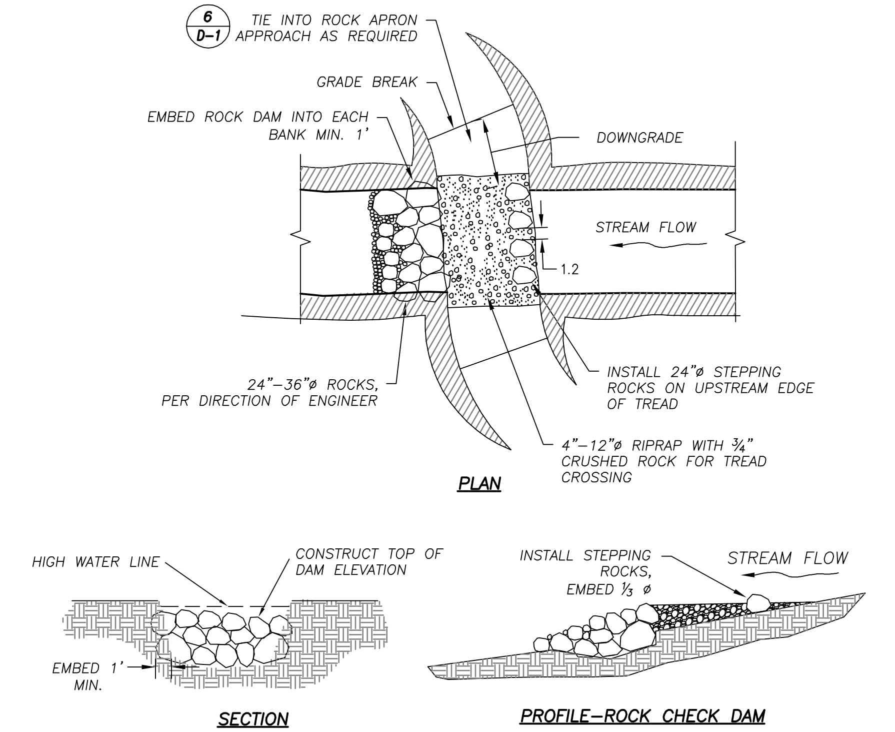
NTS



NOTE:
SEE SHEET Q FOR ROCK BREAST WALL DIMENSIONS.

13 / D-1 ROCK BREAST WALL

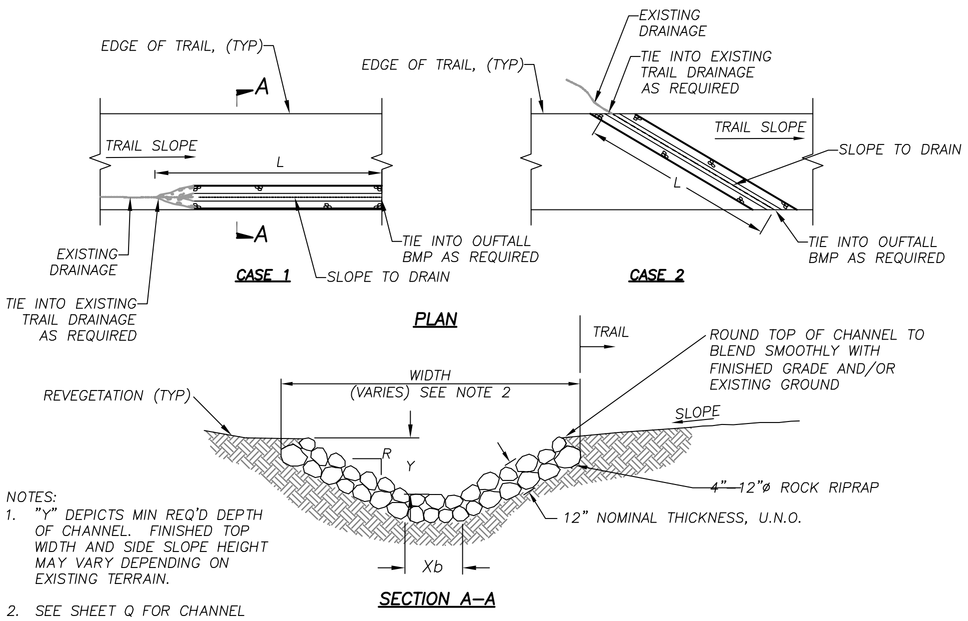
NTS



NOTES:
1. SEE SHEET Q FOR ROCK CHECK XING DIMENSIONS.
2. ADDTIONAL BANK STABILIZATION MEASURES MAY BE REQUIRED PER DIRECTION OF ENGINEER IN THE FIELD.

15 / D-1 ROCK FORD XING

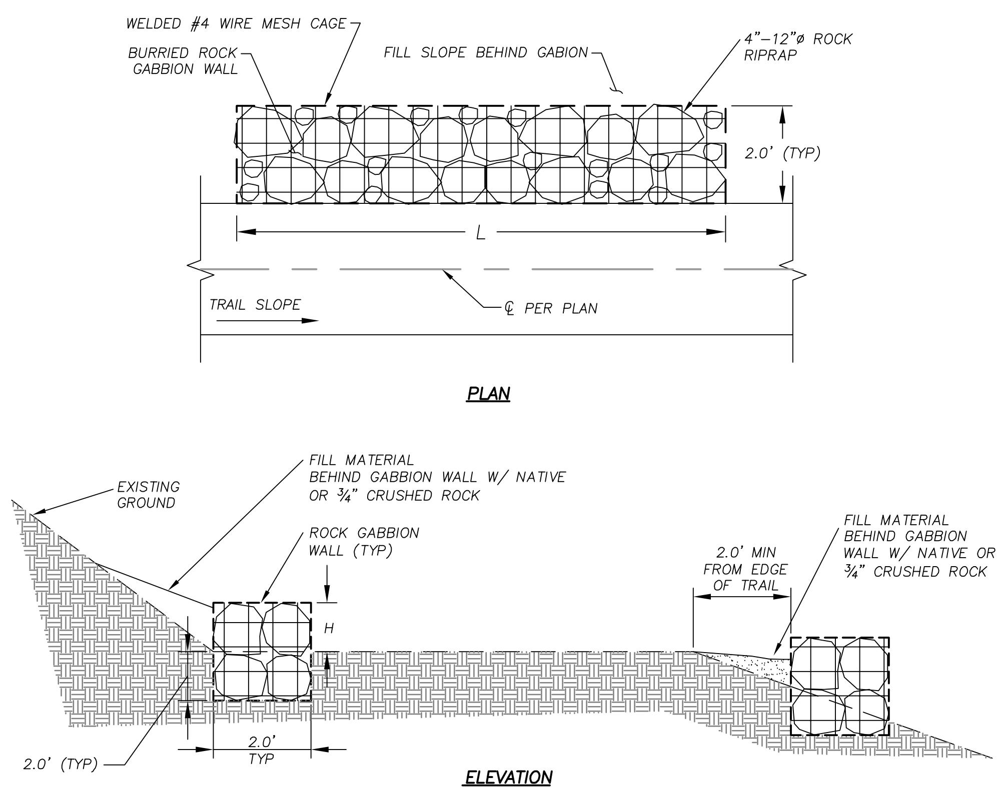
NTS



NOTES:
1. "Y" DEPICTS MIN REQ'D DEPTH OF CHANNEL. FINISHED TOP WIDTH AND SIDE SLOPE HEIGHT MAY VARY DEPENDING ON EXISTING TERRAIN.
2. SEE SHEET Q FOR CHANNEL DIMENSIONS.

11 / D-1 ROCK LINED CHANNEL

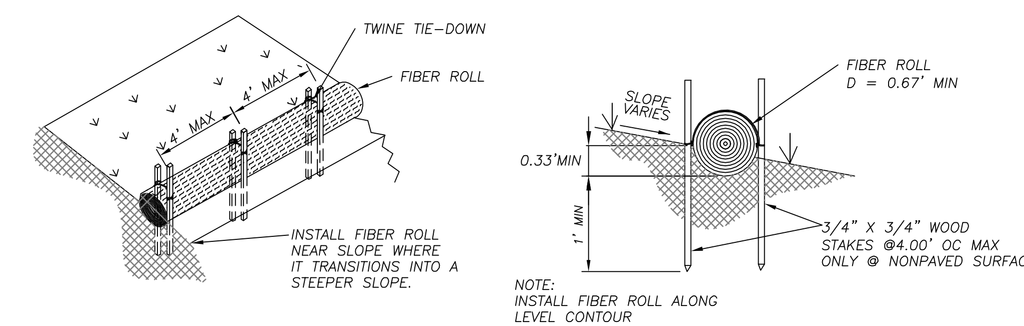
NTS



NOTES:
1. SEE SHEET Q FOR ROCK GABION WALL DIMENSIONS.

14 / D-1 ROCK GABION

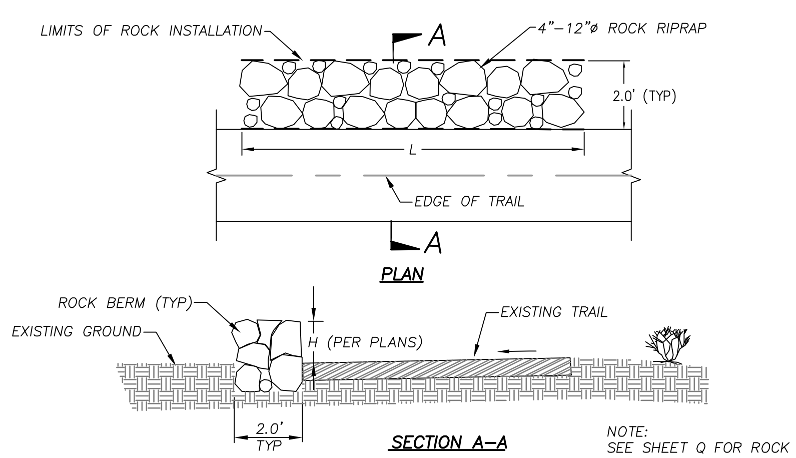
NTS



NOTE:
INSTALL FIBER ROLL ALONG LEVEL CONTOUR

16 / D-1 FIBER ROLL TEMPORARY BMP

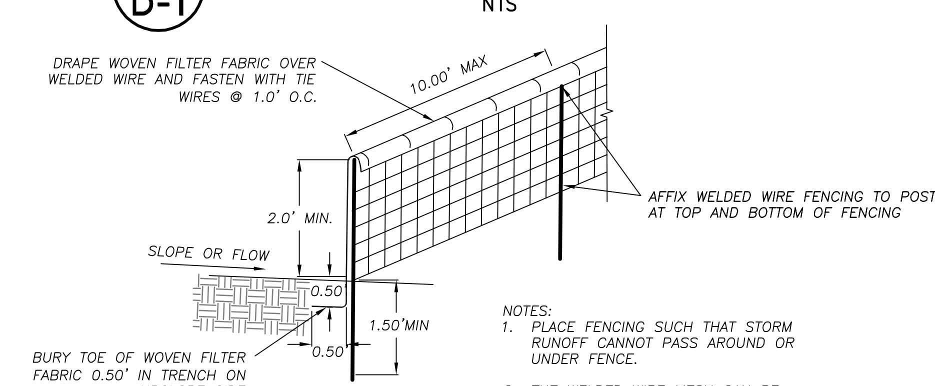
NTS



NOTE:
SEE SHEET Q FOR ROCK BERM DIMENSIONS.

12 / D-1 ROCK BERM

NTS



NOTES:
1. PLACE FENCING SUCH THAT STORM RUNOFF CANNOT PASS AROUND OR UNDER FENCE.
2. THE WELDED WIRE MESH CAN BE ELIMINATED AT THE DIRECTION OF THE ENGINEER.

17 / D-1 FILTER FENCE TEMPORARY BMP

NTS

DETAILS
SCALE : AS SHOWN

ORIGINAL SCALE IS IN INCHES FOR REDUCED PLANS 0 1 2

Drawing name: C:\Civil 3D Projects\99418 Rubicon Trail Maintenance\CADD Files\Sheets\Detail Sheets.dwg Layout Tab: D-2 Dec 07,2010 – 2:29pm SMcVey

REVISION			
NUMBER	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER STEVE PETER KOOYMAN No. 55757 Exp. 12–31–10 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF :
REGISTERED CIVIL ENGINEER
11/24/10
DATE:

DESIGNED: SPK	DRAWN: JC
CHECKED: SPK	DATE: 12/14/10
ROAD NUMBER: –	

EL DORADO COUNTY DOT DEPT. OF TRANSPORTATION

EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

RUBICON TRAIL SATURATED SOIL
WATER QUALITY PROTECTION PLAN

SHEET D-2
23 OF 26
W.O. No. 99426

WENTWORTH SPRINGS TO POSTPILE

Trail Alignment	Trail Segment Name	Trail Stationing	BMP Detail Name	BMP Detail ID	BMP DIM L	BMP DIM W	BMP DIM D/H	BMP DIM dia	BMP Material
'RT' Line	Wentworth Springs Rd.	35+84.40	Rock Ditch Xing	5	75	6	1		4"-12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	36+13.36	Rock Fill	3	66	10			4"-12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	39+33.83	Rock Fill	3	84	15			4"-12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	40+54.84	Rock Fill	3	137	11			4"-12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	40+54.84 LT	Rock Barrier	2	137				4"-12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	41+99.34	Rock Apron	6	12	10			4"-12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	43+35.88	Rock Ditch Xing	5	21	10	1		4"-12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	43+35.88 RT	Rock Outlet Protection	8	45	4	2		4"-12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	47+17.15	Rock Fill	3	318	11			4"-12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	47+17.15 LT	Rock Slope Protection	10	318	2			4"-12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	48+00 LT	Rock Inlet Protection	7	10	5			4"-12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	48+30.50	Rock Check Xing	4	10	8	1		4"-12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	50+12.15 RT	Rock Outlet Protection	8	32	6	1		4"-12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	50+66.91	Rock Fill	3	90	27			4"-12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	50+66.91 RT	Rock Lined Channel	11	37	4	1		4"-12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	51+56.91	Rock Fill	3	75	11			4"-12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	51+56.91 LT	Rock Slope Protection	10	75				4"-12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	52+11.61	Rock Check Xing	4	21	11			4"-12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	52+11.61 RT	Rock Outlet Protection	8	15	7	3		4"-12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	52+35.16	Rock Fill	3	12	8			4"-12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	53+44.34	Rock Fill	3	80	8			4"-12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	53+44.34 LT	Rock Slope Protection	10	80				4"-12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	53+92.88	Rock Check Xing	4	10	7	1		4"-12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	53+92.88 RT	Rock Outlet Protection	8	10	5	1		4"-12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	54+74.73	Rock Fill	3	46	13			4"-12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	55+42.30	Rock Ditch Xing	5	80	8	2		4"-12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	55+42.30 RT	Rock Energy Dissipator	9			3	6	4"-12" Dia Ang Rip Rap
'N' Line Variant	Wentworth Springs Rd. South	12+78.20	Rock Ditch Xing W/Aprons	5	21	24	1		4"-12" Dia Ang Rip Rap
'N' Line Variant	Wentworth Springs Rd. South	12+78.20 RT	Rock Energy Dissipator	9			2	5	4"-12" Dia Ang Rip Rap
	Wentworth Springs Rd.	60+00	Rock Fill	3	63	45			4"-12" Dia Ang Rip Rap
	Wentworth Springs Rd.	60+00	Rock Check Xing W/Aprons	4,6	34	6			4"-12" Dia Ang Rip Rap
'N' Line Variant	Wentworth Springs Rd. South	19+39.85	Rock Check Xing W/Aprons	4,6	22	9	1		4"-12" Dia Ang Rip Rap
'N' Line Variant	Wentworth Springs Rd. South	19+82.97	Rock Check Xing W/Aprons	4,6	9	9			4"-12" Dia Ang Rip Rap
'N' Line Variant	Wentworth Springs Rd. South	19+82.97 RT	Rock Energy Dissipator	9			1	4	4"-12" Dia Ang Rip Rap
'N' Line Variant	Wentworth Springs Rd. South	20+79.41	Rock Check Xing W/Aprons	4,6	9	15			4"-12" Dia Ang Rip Rap
'N' Line Variant	Wentworth Springs Rd. South	20+79.41 RT	Rock Energy Dissipator	9			1	6	4"-12" Dia Ang Rip Rap
'N' Line Variant	Wentworth Springs Rd. South	21+47.67	Rock Ditch Xing W/Aprons	5,6	9	15			4"-12" Dia Ang Rip Rap
'N' Line Variant	Wentworth Springs Rd. South	21+47.67 RT	Rock Outlet Protection	8	6	4	1		4"-12" Dia Ang Rip Rap
'N' Line Variant	Wentworth Springs Rd. South	22+32.78	Rock Check Xing W/Aprons	4,6	9	12			4"-12" Dia Ang Rip Rap
'N' Line Variant	Wentworth Springs Rd. South	22+32.78 RT	Rock Energy Dissipator	9			1	5	4"-12" Dia Ang Rip Rap
'N' Line Variant	Wentworth Springs Rd. South	23+47.60	Rock Check Xing W/Aprons	4,6	9	12			4"-12" Dia Ang Rip Rap
'N' Line Variant	Wentworth Springs Rd. South	23+47.60 RT	Rock Energy Dissipator	9			1	2	4"-12" Dia Ang Rip Rap
'N' Line Variant	Wentworth Springs Rd. South	23+42.17 LT	Rock Slope Protection	10	30	6			4"-12" Dia Ang Rip Rap
'N' Line Variant	Wentworth Springs Rd. South	24+64.64	Rock Check Xing W/Aprons	4,6	9	10			4"-12" Dia Ang Rip Rap
'N' Line Variant	Wentworth Springs Rd. South	24+64.64 RT	Rock Energy Dissipator	9			1	5	4"-12" Dia Ang Rip Rap
'N' Line Variant	Wentworth Springs Rd. South	25+15.00	Rock Check Xing W/Aprons	4,6	12	10			4"-12" Dia Ang Rip Rap

WENTWORTH SPRINGS TO POSTPILE (CONTINUED)

Trail Alignment	Trail Segment Name	Trail Stationing	BMP Detail Name	BMP Detail ID	BMP DIM L	BMP DIM W	BMP DIM D/H	BMP DIM dia	BMP Material
'N' Line Variant	Wentworth Springs Rd. South	25+15.00 RT	Rock Energy Dissipator	9			1	4	4"-12" Dia Ang Rip Rap
'N' Line Variant	Wentworth Springs Rd. North	27+04.42	Rock Check Xing W/Aprons	4,6	12	15			4"-12" Dia Ang Rip Rap
'N' Line Variant	Wentworth Springs Rd. North	27+66.10	Rock Fill	3	15	9			4"-12" Dia Ang Rip Rap
'N' Line Variant	Wentworth Springs Rd. North	27+66.10 RT	Log Barrier	1					10"-16" DIA. x 10' lg
'N' Line Variant	Wentworth Springs Rd. North	29+85.15 LT	Log Barrier	1					10"-16" DIA. x 10' lg
'N' Line Variant	Wentworth Springs Rd. North	31+23.00	Rock Fill	3	30	6			4"-12" Dia Ang Rip Rap
'N' Line Variant	Wentworth Springs Rd. North	32+37.14 LT	Log Barrier	1					10"-16" DIA. x 10' lg
'RT' Line	Wentworth Springs Rd.	73+66.54	Rock Ditch Xing	5	10	12	1		4"-12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	74+95.95	Rock Ditch Xing	5	11	12	1		4"-12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	77+16.99	Rock Ditch Xing	5	10	12	1		4"-12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	82+39.15	Rock Ditch Xing	5	12	15	1		4"-12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	86+30.10	Rock Ditch Xing	5	10	12	1		4"-12" Dia Ang Rip Rap

INTER-TIE INTERSECTION TO ELLIS CREEK

Trail Alignment	Trail Segment Name	Trail Stationing	BMP Detail Name	BMP Detail ID	BMP DIM L	BMP DIM W	BMP DIM D/H	BMP DIM dia	BMP Material
'EC' Line	Loon Lake Intertie	99+51.63	Rock Fill	3	24	12			4"-12" Dia Ang Rip Rap
'EC' Line	Loon Lake Intertie	99+86.95	Rock Lined Channel w/ Rock Apron	6,11	34	12	1		4"-12" Dia Ang Rip Rap
'EC' Line	Loon Lake Intertie	99+86.95 RT	Rock Energy Dissipator	9			2	7	4"-12" Dia Ang Rip Rap
'EC' Line	Loon Lake Intertie	100+60.35	Rock Fill	3	12	11			4"-12" Dia Ang Rip Rap
'EC' Line	Loon Lake Intertie	101+96.83	Rock Ditch Xing	5	12	10	1		4"-12" Dia Ang Rip Rap
'EC' Line	Loon Lake Intertie	101+96.83 RT	Rock Energy Dissipator	9			1	7	4"-12" Dia Ang Rip Rap
'EC' Line	Loon Lake Intertie	103+34.94	Rock Ditch Xing	5	12	10	1		4"-12" Dia Ang Rip Rap
'EC' Line	Loon Lake Intertie	103+34.94 RT	Rock Energy Dissipator	9			2	5	4"-12" Dia Ang Rip Rap
'EC' Line	Loon Lake Intertie	104+49.21	Rock Fill	3	30	11			4"-12" Dia Ang Rip Rap
'EC' Line	Loon Lake Intertie	105+71.31 RT	Rock Energy Dissipator	9			2	11	4"-12" Dia Ang Rip Rap
'EC' Line	Loon Lake Intertie	105+71.31	Rock Fill	3	175	11			4"-12" Dia Ang Rip Rap
'EC' Line	Loon Lake Intertie	106+75.31 LT	Rock Slope Protection	10	80		2		4"-12" Dia Ang Rip Rap
'EC' Line	Loon Lake Intertie	106+70.84 RT	Rock Berm	12	16	2	1		4"-12" Dia Ang Rip Rap
'EC' Line	Loon Lake Intertie	107+26.00 LT	Rock Inlet Protection	7	10	5			4"-12" Dia Ang Rip Rap
'EC' Line	Loon Lake Intertie	107+36.70	Rock Ditch Xing	5	28	11	2	0	4"-12" Dia Ang Rip Rap
'EC' Line	Loon Lake Intertie	107+36.70 RT	Rock Energy Dissipator	9	0	0	3	12	4"-12" Dia Ang Rip Rap
'EC' Line	Loon Lake Intertie	107+87.46	Rock Fill	3	10	12			4"-12" Dia Ang Rip Rap
'EC' Line	Loon Lake Intertie	107+99.46	Rock Fill	3	52	18			4"-12" Dia Ang Rip Rap
'EC' Line	Loon Lake Intertie	108+72.46	Rock Ditch Xing	5	28	18	2	12	4"-12" Dia Ang Rip Rap
'EC' Line	Loon Lake Intertie	108+72.46 RT	Rock Energy Dissipator	9	28	18	3	12	4"-12" Dia Ang Rip Rap
'EC' Line	Loon Lake Intertie	109+47.37	Rock Fill	3	62	12			4"-12" Dia Ang Rip Rap
'EC' Line	Loon Lake Intertie	110+08.97 LT	Rock Inlet Protection	7	10	3			4"-12" Dia Ang Rip Rap
'EC' Line	Loon Lake Intertie	110+08.97	Rock Ditch Xing	5	18	12	3	17	4"-12" Dia Ang Rip Rap
'EC' Line	Loon Lake Intertie	110+08.97 RT	Rock Energy Dissipator	9	18	12	3	17	4"-12" Dia Ang Rip Rap
'EC' Line	Loon Lake Intertie	110+64.15	Rock Apron	6	10	12			4"-12" Dia Ang Rip Rap
'EC' Line	Loon Lake Intertie	110+64.15	Rock Ditch Xing	5	24	12	2	12	4"-12" Dia Ang Rip Rap
'EC' Line	Loon Lake Intertie	110+64.15 RT	Rock Energy Dissipator	9	24	12	2	12	4"-12" Dia Ang Rip Rap
'EC' Line	Loon Lake Intertie	112+88.09 RT	Rock Energy Dissipator	9			2	10	4"-12" Dia Ang Rip Rap
'EC' Line	Loon Lake Intertie	113+37.87	Rock Lined Channel	11	3	48			4"-12" Dia Ang Rip Rap

BMP DIMENSIONS AND QUANTITY SCHEDULE
SCALE : NONE

ORIGINAL SCALE IS IN INCHES FOR REDUCED PLANS
0 1 2

Drawing name: C:\Civil 3D Projects\99418 Rubicon Trail Maintenance\CADD Files\Sheets\BMP Quantity Sheets.dwg Layout Tab: Q-1 Dec 07,2010 - 6:41am SMcVey

REVISION | NUMBER | DATE | DESCRIPTION | BY

REGISTERED PROFESSIONAL ENGINEER
STEVE PETER KOOYMAN
No. 55757
Exp. 12-31-10
CIVIL
STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF :
REGISTERED CIVIL ENGINEER
11/24/10
DATE:

DESIGNED: SPK
DRAWN: SGM
CHECKED: SPK
DATE: 12/14/10
ROAD NUMBER: -

EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

RUBICON TRAIL SATURATED SOIL WATER QUALITY PROTECTION PLAN

SHEET Q-1
24 OF 26
W.O. No. 99426

ELLIS CREEK TO WALKER HILL

Trail Alignment	Trail Segment Name	Trail Stationing	BMP Detail Name	BMP Detail ID	BMP DIM L	BMP DIM W	BMP DIM D/H	BMP DIM dia	BMP Material
'RT' Line	Wentworth Springs Rd.	115+77.95	Rock Check Xing	4	26	12	2		4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	116+09.88 LT	Rock Berm	12	48				4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	117+18.21	Rock Fill	3	46	12			4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	116+72.76	Rock Lined Channel	11	42	6	1		4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	116+72.76 RT	Rock Outlet Protection	8	27	3	1		4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	116+95.91 RT	Rock Lined Channel	11	120	3	1		4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	116+95.91 RT	Rock Outlet Protection	8	46	3	1		4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	118+14.52 LT	Rock Berm	12	78				4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	118+14.52	Rock Fill	3	228	12			4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	119+15.56 RT	Rock Slope Protection	10	240		3		4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	119+15.56	Rock Fill	3	100	11			4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	120+86.35 RT	Rock Slope Protection	10	54		2.5		4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	120+86.35	Rock Fill	3	50	11			4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	122+45.65	Rock Barrier	2					4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	126+18.54	Rock Check Xing	4	18	4	1		4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	126+18.54	Rock Fill	3	38	11			4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	126+18.54 RT	Rock Energy Dissipator	9			3	9	4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	127+21.50	Rock Check Xing w/Apron	4,6	16	12	2		
'RT' Line	Wentworth Springs Rd.	130+44.12	Rock Ditch Xing w/Apron	5,6	33	12	1		4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	130+44.12	Rock Outlet Protection	8	10	4	2		4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	130+44.12 RT	Rock Energy Dissipator	9			3	7	4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	130+88.61	Rock Ditch Xing w/Apron	5,6	15	12	1		4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	130+88.61 RT	Rock Outlet Protection	8	15	8	1		4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	130+56.04 LT	Rock Inlet Protection	7	6	6			4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	130+56.04	Rock Lined Channel	11	70	5			4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	134+09.62	Rock Fill	3	27	12			4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	134+09.62 RT	Rock Outlet Protection	8	27	4	1		4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	137+90.63 LT	Rock Inlet Protection	7	21	6			4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	138+25.18 LT	Rock Barrier	2	36				4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	139+79.00	Rock Fill	3	120	14			4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	139+79.00 LT	Rock Slope Protection	10	40		2		
'RT' Line	Wentworth Springs Rd.	139+50.63 LT	Rock Inlet Protection	7	18	3	1		4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	139+50.63	Rock Ditch Xing	5	12	14			4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	138+79.59 RT	Rock Outlet Protection	8	27	9			4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	145+42.67	Rock Check Xing	4	15	18			4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	145+42.67 RT	Rock Outlet Protection	8	18	4	2		4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	147+94.98 LT	Rock Slope Protection	10	50		2		4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	147+94.98	Rock Check Xing w/Apron	4,6	18	10			4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	148+21.67	Rock Check Xing	4	30	12			4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	148+21.67 RT	Rock Outlet Protection	8	16	3.5	1		4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	148+63.77	Rock Check Xing	4	18	10			4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	148+63.77 LT	Rock Slope Protection	10	16				4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	148+63.77 RT	Rock Outlet Protection	8	24	3	1		4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	150+76.20	Rock Check Xing w/Apron	4,6	15	12			4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	150+76.20 LT	Rock Inlet Protection	7	6	2	1		4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	150+76.20 RT	Rock Outlet Protection	8	21	3	2		4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	151+47.76	Rock Check Xing w/Apron	4,6	16	12			4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	151+47.76 RT	Rock Outlet Protection	8	18	4	2		4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	151+73.80 LT	Rock Slope Protection	10	105				4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	153+14.84	Rock Check Xing	4	27	14			4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	153+14.84 RT	Rock Outlet Protection	8	48	3	1.5		4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	155+47.77	Rock Fill (FOTR Bridge)	3	30	8			4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	157+48.31	Rock Check Xing w/Apron	4,6	18	15			4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	157+48.31 RT	Rock Outlet Protection	8	10	6	1		4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	164+65.72 RT	Rock Outlet Protection	8	6	10	1		4"–12" Dia Ang Rip Rap

ELLIS CREEK TO WALKER HILL

Trail Alignment	Trail Segment Name	Trail Stationing	BMP Detail Name	BMP Detail ID	BMP DIM L	BMP DIM W	BMP DIM D/H	BMP DIM dia	BMP Material
'RT' Line	Wentworth Springs Rd.	169+34.33	Rock(& Log) Check Xing w/Apron	4,6	15	12			4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	169+34.33 RT	Rock Outlet Protection	8	40	6	1		4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	169+80.00	Rock Fill	3	300	12			4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	170+80.00 LT	Rock Slope Protection	10	100		3		4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	170+80.00 RT	Rock Breast Wall	13	150		3		24"–36" Boulders and 4"–12" Rock Rip Rap
'RT' Line	Wentworth Springs Rd.	172+34.77	Rock Check Xing w/Apron	4,6	9	8	1		4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	172+34.77 RT	Rock Outlet Protection	8	15	5			4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	174+00.00	Rock Check Xing w/Apron	4,6	36	15			4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	174+00.00 RT	Rock Energy Dissipator	9			2	6	4"–12" Dia Ang Rip Rap

WALKER HILL TO LITTLE SLUICE

Trail Alignment	Trail Segment Name	Trail Stationing	BMP Detail Name	BMP Detail ID	BMP DIM L	BMP DIM W	BMP DIM D/H	BMP DIM dia	BMP Material
'RT' Line	Wentworth Springs Rd.	195+09.44 RT	Rock Inlet Protection	7	16	12			4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	195+13.42 RT	Rock Slope Protection	10	40		3		4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	195+24.38 RT	Rock Berm	12	16	6	1		4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	195+42.56 RT	Rock Slope Protection	10	30		3		4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	196+14.51 LT	Rock Inlet Protection	7	12	6			4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	196+75.81 LT	Rock Slope Protection	10	16		2		4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	196+84.48 RT	Rock Slope Protection	10	20		3		4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	196+84.48	Rock Fill	3	46	30			4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	198+40.84 LT	Rock Inlet Protection	7	12	6			4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	198+40.84	Rock Ditch Xing	5	40	12	1		4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	199+29.48 RT	Rock Outlet Protection	8	16	12			4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	199+10.91 LT	Rock and Log Barrier	1,2	10				24"–36" Boulders and 10"–16" x 10' lg
'RT' Line	Wentworth Springs Rd.	199+10.91 RT	Rock and Log Barrier	1,2	15				24"–36" Boulders and 10"–16" x 10' lg
'RT' Line	Wentworth Springs Rd.	201+34.98	Rock Fill	3	70	12			4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	204+03.46	Rock Barrier	2	15				24"–36" Boulders
'RT' Line	Wentworth Springs Rd.	201+34.98	Rock Berm	12	40	6	1		4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	204+89.15	Rock Check Xing	4	30	10	1		4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	204+89.15 RT	Rock Energy Dissipator	9			3	9	4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	204+74.18	Rock Ditch Xing w/ Apron	5,6	20	10	1		4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	205+05.31 RT	Rock Energy Dissipator	9			3	9	est. on photo
'RT' Line	Wentworth Springs Rd.	206+40.40 RT	Rock Barrier	2	10				24"–36" Boulders
'RT' Line	Wentworth Springs Rd.	206+63.84 RT	Rock Barrier	2	10				24"–36" Boulders
'RT' Line	Wentworth Springs Rd.	208+66.45	Rock Inlet Protection	7	20	15			4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	209+00.00	Rock and Log Barrier	1,2	10				24"–36" Boulders and 10"–16" x 10' lg
'RT' Line	Wentworth Springs Rd.	209+58.39	Rock Fill	3	75	13			4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.		Rock Breast Wall	13	100		3		4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	212+10.64 RT	Rock Inlet Protection	7	20	15			4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	212+38.14	Rock Fill	3	50	12			4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	213+50.32 RT	Rock Breast Wall	13	130		2		4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	213+50.32	Rock Fill	3	21	12			4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	213+50.32	Rock Ditch Xing	5	36	12	1		4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	215+13.66 RT	Rock Inlet Protection	7	20	14			4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	215+13.66	Rock Ditch Xing	5	18	12	1		4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	215+70.13 LT	Rock Barrier	2	10				24"–36" Boulders
'RT' Line	Wentworth Springs Rd.	216+01.4	Rock Fill – Boulder Busting	3	100	9			4"–12" Dia Ang Rip Rap
'RT' Line	Wentworth Springs Rd.	210+99.21 RT	Rock Barrier	2	15				24"–36" Boulders

BMP DIMENSIONS AND QUANTITY SCHEDULE
SCALE : NONE

ORIGINAL SCALE IS IN INCHES FOR REDUCED PLANS

Drawing name: C:\Civil 3D Projects\99418 Rubicon Trail Maintenance\CADD Files\Sheets\BMP Quantity Sheets.dwg Layout Tab: Q-2 Dec 07,2010 – 6:58am SMcVey

REVISION | NUMBER | DATE | DESCRIPTION | BY

REGISTERED PROFESSIONAL ENGINEER
STEVE PETER KOOYMAN
No. 55757
Exp. 12-31-10
CIVIL
STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF :
REGISTERED CIVIL ENGINEER
11/24/10
DATE:

DESIGNED: SPK | DRAWN: SGM
CHECKED: SPK | DATE: 12/14/10
ROAD NUMBER: –

EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

RUBICON TRAIL SATURATED SOIL
WATER QUALITY PROTECTION PLAN

SHEET
Q-2
25 OF 26
W.O. No. 99426

LOON LAKE TO INTER-TIE INTERSECTION

Trail Alignment	Trail Segment Name	Trail Stationing	BMP Detail Name	BMP Detail ID	BMP DIM L	BMP DIM W	BMP DIM D/H	BMP DIM dia	BMP Material
'EC' Line	Loon Lake Inter–Tie	122+20.98 LT	Rock Outlet Protection	8	10	5			4"–12" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	129+80.67	Rock Fill	3	50	10			4"–12" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	130+21.24 RT	Rock Slope Protection	10	36		2		4"–12" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	129+80.67 LT	Rock Energy Dissipator	9			1	4	4"–12" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	132+68.89	Rock Fill	3	215	10			4"–12" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	133+23.94	Rock Ditch Xing	5	7	5	1		4"–12" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	133+23.94 LT	Rock Outlet Protection	8	7	5	1		4"–12" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	134+36.98	Rock Fill	3	40	10			4"–12" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	135+09.08	Rock Apron	6	14	7			4"–12" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	135+09.08	Rock Fill	3	40	10			4"–12" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	135+10.56	Rock Barrier	2	70				18"–30" Boulders
'EC' Line	Loon Lake Inter–Tie	139+30.08	Rock Fill	3	18	6			4"–12" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	139+30.08 RT	Rock Barrier	2	18				18"–30" Boulders
'EC' Line	Loon Lake Inter–Tie	139+77.53 RT	Rock Slope Protection	10	30		3		4"–12" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	139+93.00 LT	Rock Lined Channel	11	20	15	1		4"–12" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	140+06.89	Rock Ditch Xing	5	14	23	2		4"–12" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	140+06.89 LT	Rock Energy Dissipator	9			3	13	4"–12" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	140+31.26 RT	Rock Barrier	2	60				18"–30" Boulders
'EC' Line	Loon Lake Inter–Tie	144+69.83	Rock Fill	3	30	8			4"–12" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	142+34.15 RT	Rock Slope Protection	10	30		4		4"–12" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	143+19.37 LT	Rock Energy Dissipator	9			3	10	4"–12" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	143+19.37	Rock Ditch Xing w/ Apron	5,6	25	15	1		4"–12" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	143+19.37 RT	Rock Slope Protection	10	105		4		4"–12" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	143+95.42	Rock Fill	3	45	11			4"–12" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	144+68.53	Rock Ditch Xing w/ Apron	5,6	30	10	1		4"–12" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	144+68.53 LT	Rock Energy Dissipator	9			3	12	4"–12" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	145+35.99 RT	Rock Slope Protection	10	75		4		4"–12" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	145+35.99	Rock Fill	3	15	4			4"–12" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	145+55.52 LT	Rock Outlet Protection	8	10	4	2		4"–12" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	145+40.52	Rock Fill	3	15	8			4"–12" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	146+15.95 RT	Rock Slope Protection	10	30		3		4"–12" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	146+60.75	Rock Fill	3	30	12			4"–12" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	147+08.12 RT	Rock Barrier	2	50				18"–30" Boulders
'EC' Line	Loon Lake Inter–Tie	146+98.30	Rock Lined Channel	11	50	12	2		4"–12" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	146+77.03 LT	Rock Outlet Protection	8	12	12	2		4"–12" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	147+44.50	Rock Fill	3	21	10			4"–12" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	147+44.50 RT	Rock Slope Protection	10	21		2		4"–12" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	148+75.49 LT	Rock Slope Protection	10	85		2		4"–12" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	148+75.49 RT	Rock Barrier	2	85				18"–30" Boulders
'EC' Line	Loon Lake Inter–Tie	148+75.49	Rock Ditch Xing	5	16	11	1		4"–12" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	148+75.49 LT	Rock Energy Dissipator	9			2	6	4"–12" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	148+75.49 LT	Rock Outlet Protection	8	8	8	2		4"–12" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	149+48.72	Rock Fill	3	2	9			4"–12" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	150+08.54	Rock Fill	3	7	12			4"–12" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	149+71.20	Rock Fill	3	18	10			4"–12" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	174+26.17 RT	Rock Outlet Protection	8	18	3	2		4"–12" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	174+37.54	Rock Fill	3	24	10			4"–12" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	174+52.55 LT	Log Barrier	1	10				10–12" dia Logs
'EC' Line	Loon Lake Inter–Tie	176+64.77 LT	Log Barrier	1	12				10–12" dia Logs
'EC' Line	Loon Lake Inter–Tie	177+15.47	Rock Ditch Xing	5	18	12	1		4"–12" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	177+15.47 RT	Rock Lined Channel	11	48	6	2		4"–12" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	182+23.83	Rock Ditch Xing	5	8	26	1		4"–12" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	182+23.83 RT	Rock Energy Dissipator	9			1	5	4"–12" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	184+11.44	Rock Ditch Xing w/ Apron	5,6	24	24	1		4"–12" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	184+11.44 LT	Rock Outlet Protection	8	12	4	1		4"–12" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	184+11.44 LT	Rock Energy Dissipator	9			2	4	4"–12" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	185+61.33 RT	Log Barrier	1	10				10–12" dia Logs
'EC' Line	Loon Lake Inter–Tie	185+66.42 RT	Log Barrier	1	12				10–12" dia Logs
'EC' Line	Loon Lake Inter–Tie	191+09.26	Rock Ditch Xing w/ Apron	5,6	22	40	1		4"–12" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	190+48.04 RT	Rock Oulet Protection	8	22	5	1		4"–12" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	190+48.04 RT	Rock Energy Dissipator	9			1	3	4"–12" Dia Ang Rip Rap

LOON LAKE TO INTER-TIE INTERSECTION (CONTINUED)

Trail Alignment	Trail Segment Name	Trail Stationing	BMP Detail Name	BMP Detail ID	BMP DIM L	BMP DIM W	BMP DIM D/H	BMP DIM dia	BMP Material
'EC' Line	Loon Lake Inter–Tie	192+95.45 LT	Log Barrier	1	10				10–12" dia Logs
'EC' Line	Loon Lake Inter–Tie	193+35.22	Rock Ditch Xing	5	5	30	1		4"–12" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	193+25.61 RT	Rock Outlet Protection	8	67	6	1		4"–12" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	193+35.22 RT	Rock Barrier	2	37				12–24" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	195+78.80 LT	Rock and Log Barrier	1,2	22				12–24" Dia Ang Rip Rap and 10–12" logs
'EC' Line	Loon Lake Inter–Tie	195+92.10	Rock Ditch Xing w/ Apron	5,6	12	18	2		4"–12" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	195+92.10 LT	Rock Energy Dissipator	9			2	7	4"–12" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	196+04.06	Rock Fill	3	42	12			4"–12" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	196+88.71	Rock Ditch Xing w/ Apron	5,6	25	10	1		4"–12" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	196+88.71 LT	Rock Outlet Protection	8	15	4	1		4"–12" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	197+02.62	Rock Fill	3	24	10			4"–12" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	198+24.44 LT	Rock Slope Protection	10	5		2		4"–12" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	198+24.44	Rock Fill	3	12	8			4"–12" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	198+77.86 RT	Rock Barrier	2	24				12–24" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	198+77.86	Rock Fill	3	12	10			4"–12" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	199+14.47 RT	Rock Slope Protection	10	8		2		4"–12" Dia Ang Rip Rap
'EC' Line	Loon Lake Inter–Tie	196+04.06	Rock Fill	3	24	10			4"–12" Dia Ang Rip Rap

BMP DIMENSIONS AND QUANTITY SCHEDULE
SCALE : NONE

ORIGINAL SCALE IS IN INCHES FOR REDUCED PLANS
0 1 2

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REVISION			
NUMBER	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER
STEVE PETER KOOYMAN
No. 55757
Exp. 12–31–10
CIVIL
STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF :

REGISTERED CIVIL ENGINEER

11/24/10
DATE:

DESIGNED: SPK	DRAWN: SGM
CHECKED: SPK	DATE: 12/14/10
ROAD NUMBER: –	

EL DORADO COUNTY
DEPT. OF TRANSPORTATION

EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

RUBICON TRAIL SATURATED SOIL
WATER QUALITY PROTECTION PLAN

SHEET
Q-3
26 OF 26
W.O. No.
99426