Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

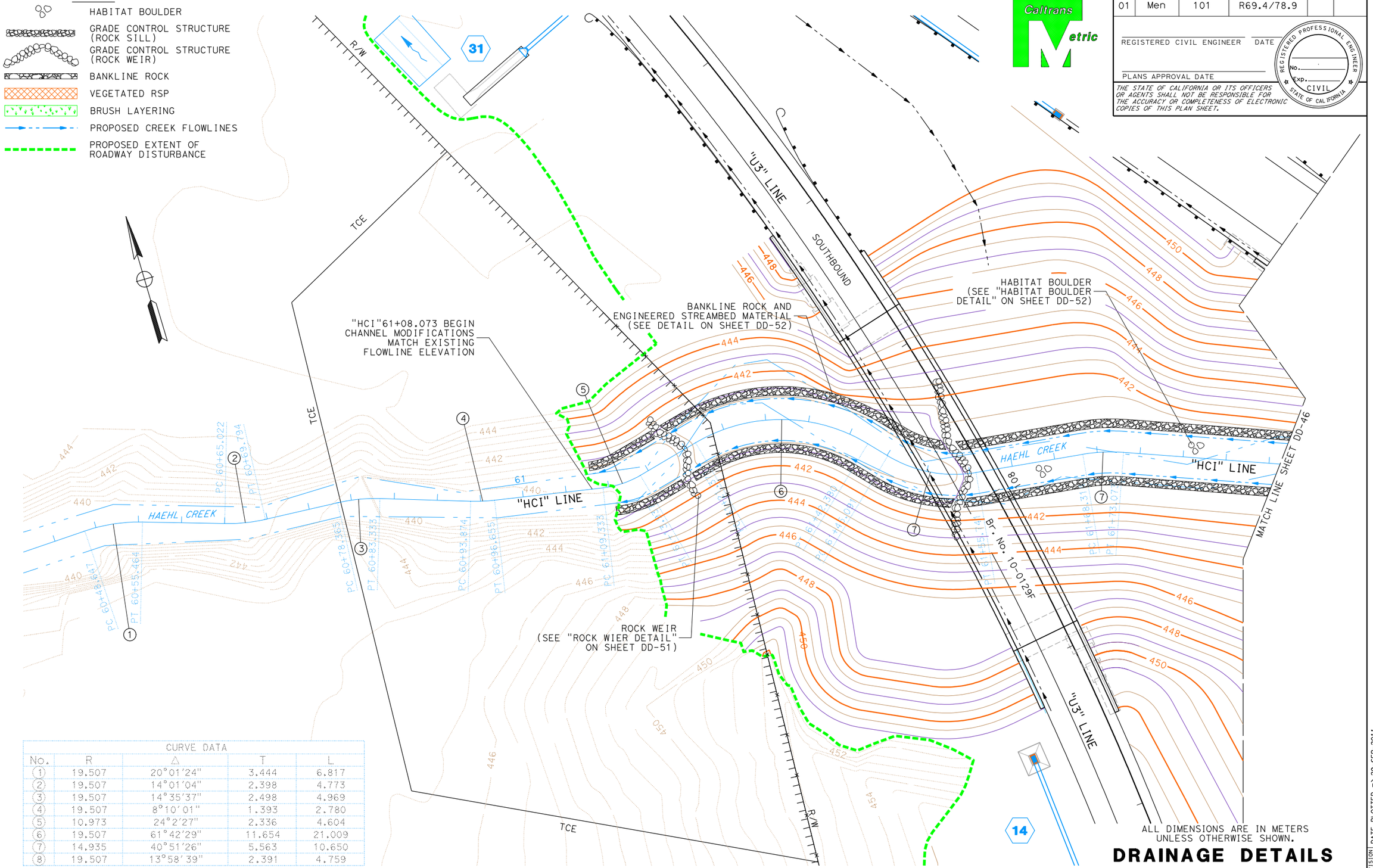
REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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

Caltrans Metric

LEGEND

- HABITAT BOULDER
- GRADE CONTROL STRUCTURE (ROCK SILL)
- GRADE CONTROL STRUCTURE (ROCK WEIR)
- BANKLINE ROCK
- VEGETATED RSP
- BRUSH LAYERING
- PROPOSED CREEK FLOWLINES
- PROPOSED EXTENT OF ROADWAY DISTURBANCE



CURVE DATA

No.	R	Δ	T	L
1	19.507	20°01'24"	3.444	6.817
2	19.507	14°01'04"	2.398	4.773
3	19.507	14°35'37"	2.498	4.969
4	19.507	8°10'01"	1.393	2.780
5	10.973	24°2'27"	2.336	4.604
6	19.507	61°42'29"	11.654	21.009
7	14.935	40°51'26"	5.563	10.650
8	19.507	13°58'39"	2.391	4.759

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

APPROVED FOR DRAINAGE WORK ONLY.

DRAINAGE DETAILS

NO SCALE

DD-45

REVISED BY | DATE REVISED

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans 03-DESIGN EAST

LAST REVISION 9-22-11 | DATE PLOTTED => 29-SEP-2011 | TIME PLOTTED => 12:38

NOTES:
1. FOR PROPOSED CONTOURS SEE CONTOUR GRADING SHEETS.

CURVE DATA

No.	R	Δ	T	L
9	19.507	35°5'50"	6.169	11.949
10	19.507	42°46'38"	7.640	14.564
11	19.507	49°25'47"	8.978	16.829
12	7.620	36°28'10"	2.510	4.850
13	7.620	35°26'40"	2.435	4.714
14	10.973	32°46'03"	3.226	6.275

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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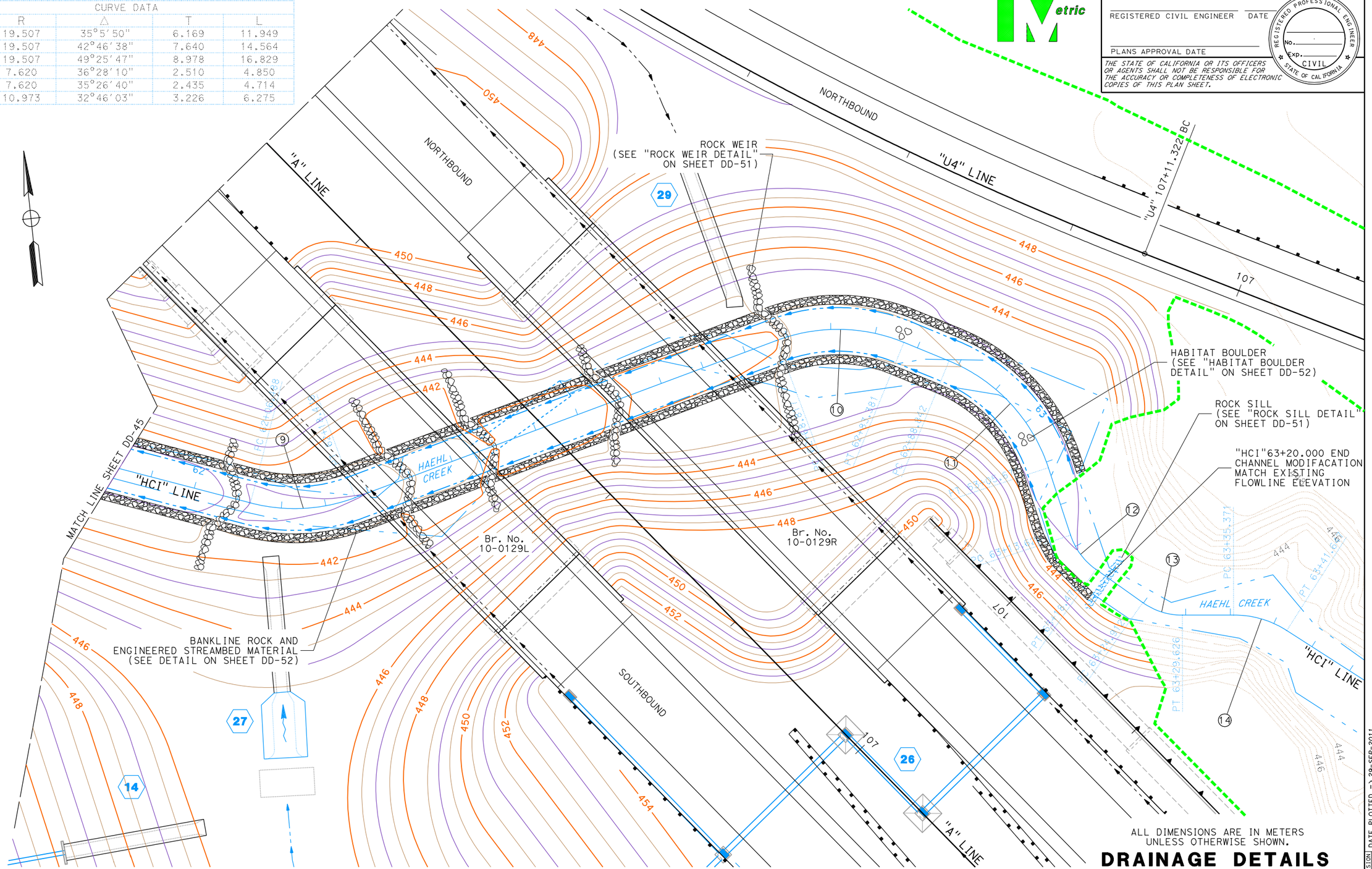

ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN.

DRAINAGE DETAILS

NO SCALE

DD-46

APPROVED FOR DRAINAGE WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES

CALCULATED-DESIGNED BY | CHECKED BY

REVISED BY | DATE REVISED

LAST REVISION 09-23-11 | DATE PLOTTED => 29-SEP-2011 | TIME PLOTTED => 12:38

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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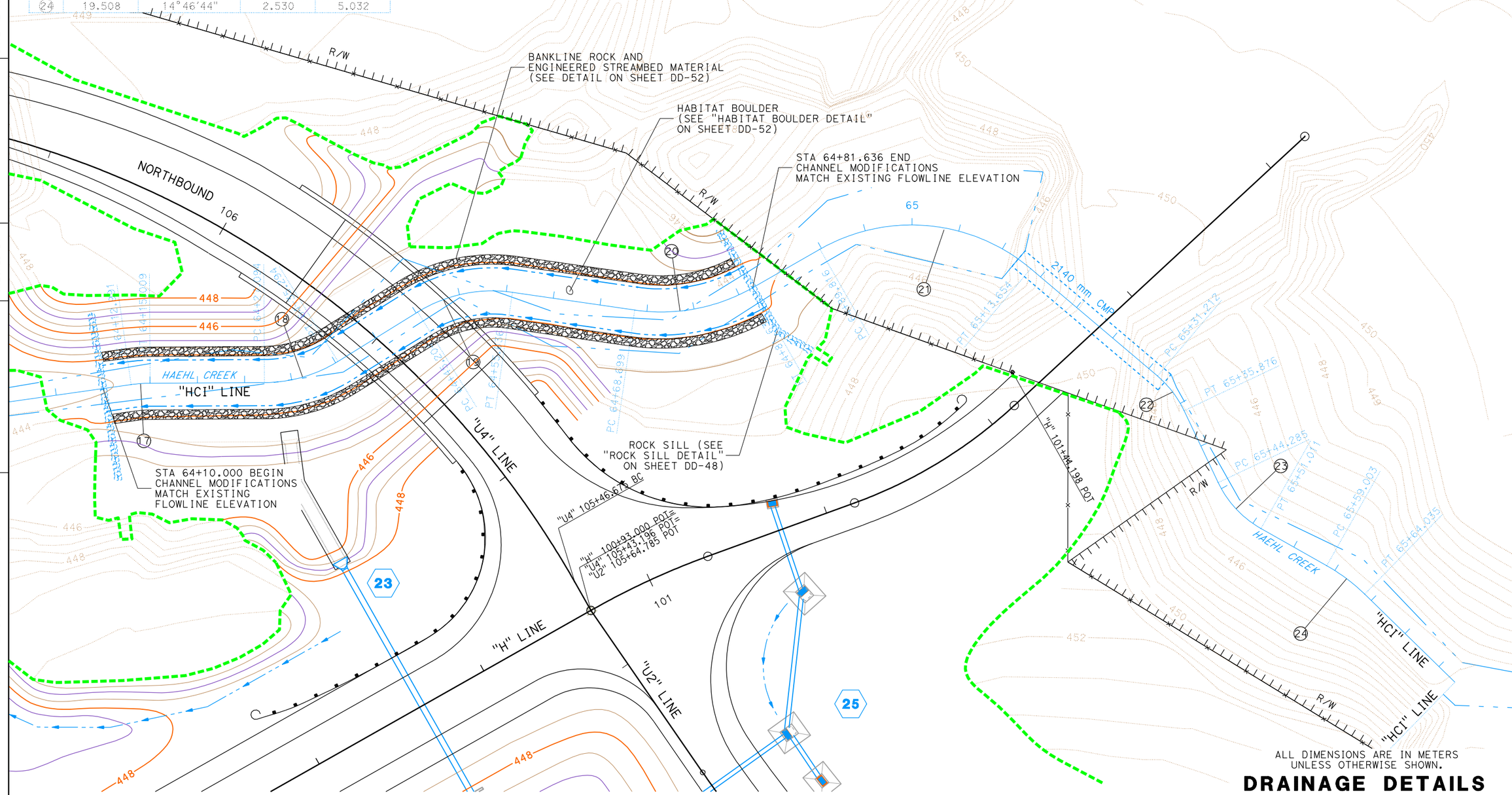
Caltrans Metric

NOTE:

1. FOR PROPOSED CONTOURS SEE CONTOUR GRADING SHEETS.

CURVE DATA

No.	R	Δ	T	L
17	14.938	7°44'20"	1.010	2.018
18	14.935	31°27'38"	4.207	8.201
19	14.935	40°01'13"	5.439	10.432
20	19.507	37°59'56"	6.717	12.937
21	19.507	70°00'48"	13.662	23.837
22	10.973	24°20'58"	2.367	4.663
23	10.973	35°07'20"	3.473	6.726
24	19.508	14°46'44"	2.530	5.032



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

APPROVED FOR DRAINAGE WORK ONLY.

DRAINAGE DETAILS

NO SCALE

DD-47

REVISED BY | DATE REVISED

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans 03-DESIGN EAST

LAST REVISION 09-23-11 | DATE PLOTTED => 29-SEP-2011 | TIME PLOTTED => 12:38

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

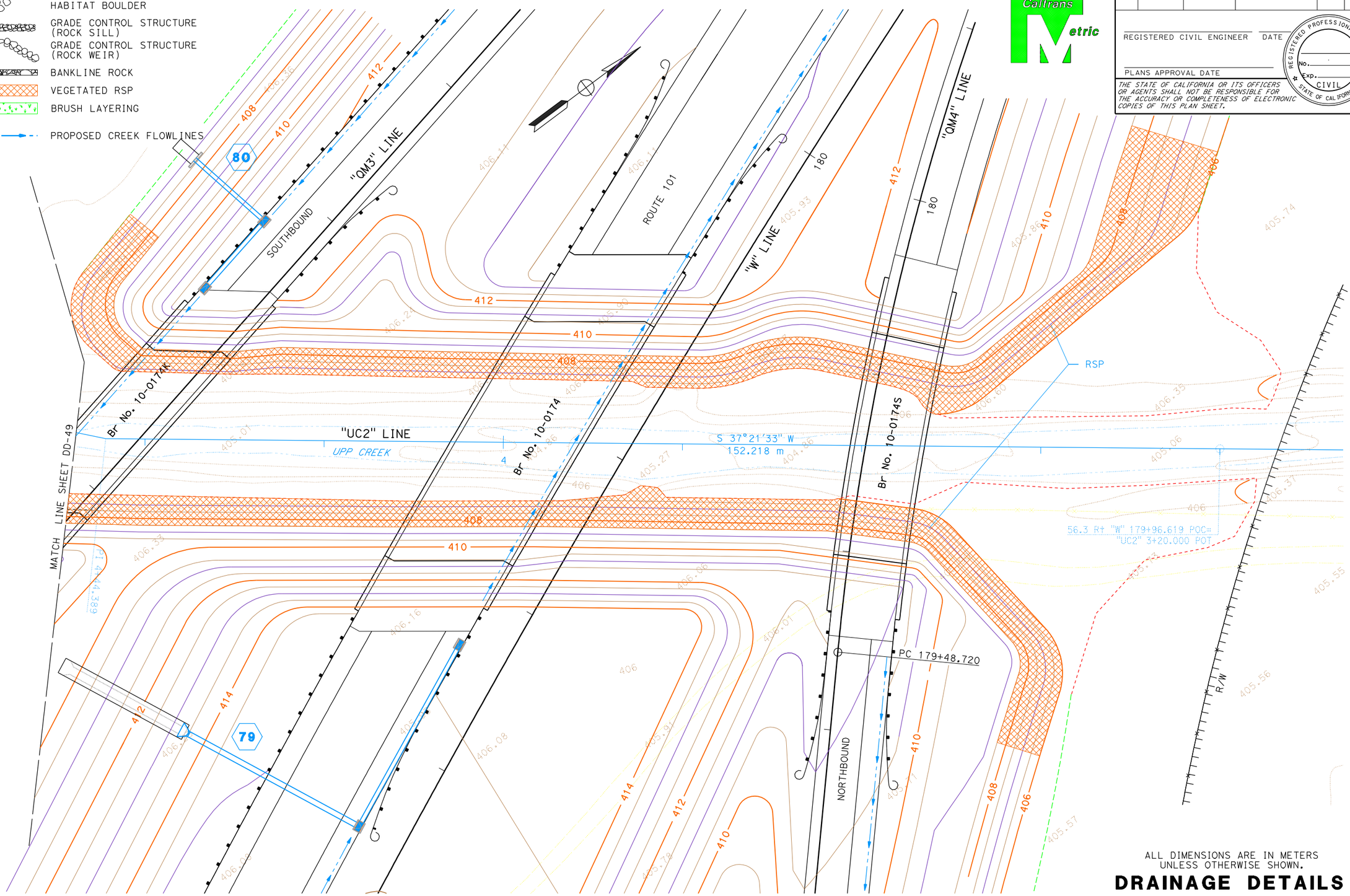
REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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

Caltrans Metric

LEGEND

- HABITAT BOULDER
- GRADE CONTROL STRUCTURE (ROCK SILL)
- GRADE CONTROL STRUCTURE (ROCK WEIR)
- BANKLINE ROCK
- VEGETATED RSP
- BRUSH LAYERING
- PROPOSED CREEK FLOWLINES



APPROVED FOR FISH PASSAGE WORK ONLY.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

DRAINAGE DETAILS

NO SCALE

DD-48

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans **03-DESIGN EAST**

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES

CALCULATED-DESIGNED BY

CHECKED BY

REVISED BY

DATE REVISED

LAST REVISION 09-23-11

DATE PLOTTED => 29-SEP-2011

TIME PLOTTED => 12:38

BORDER LAST REVISED 7/2/2010

USERNAME => s111066

DGN FILE => zFishPassage48.dgn

RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80

UNIT 0307

PROJECT NUMBER & PHASE 01000000051

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/78.9		

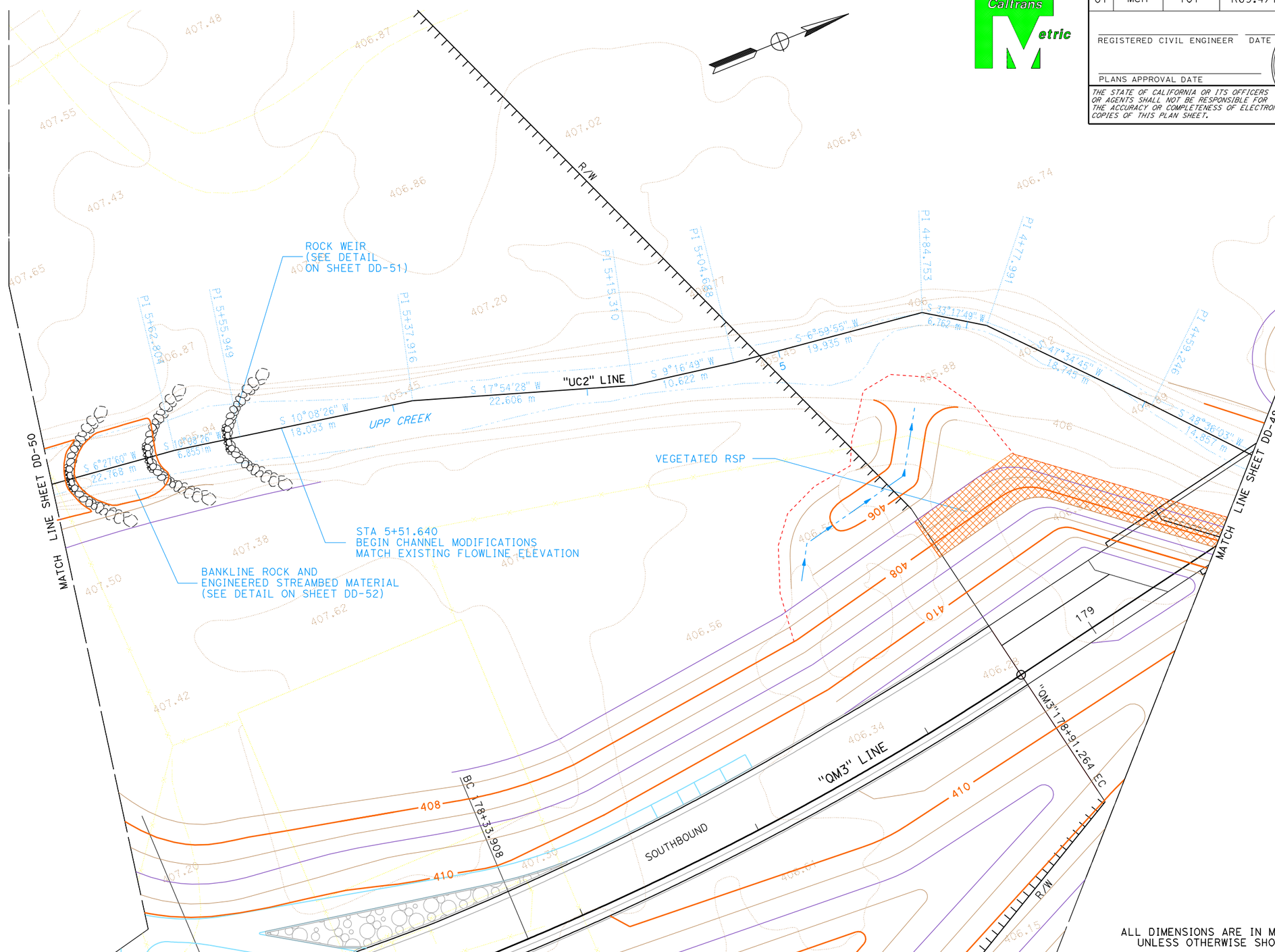
REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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

Caltrans Metric



APPROVED FOR FISH PASSAGE WORK ONLY.

ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN.

DRAINAGE DETAILS

NO SCALE

DD-49

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans **03-DESIGN EAST**

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES

CALCULATED-DESIGNED BY

CHECKED BY

REVISED BY

DATE REVISED

LAST REVISION 09-23-11

DATE PLOTTED => 29-SEP-2011
TIME PLOTTED => 12:38

BORDER LAST REVISED 7/2/2010

USERNAME => s111066
DGN FILE => zFishPassage49.dgn

RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80

UNIT 0307

PROJECT NUMBER & PHASE 01000000051

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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

Caltrans Metric

CURVE DATA

No.	R	Δ	T	L
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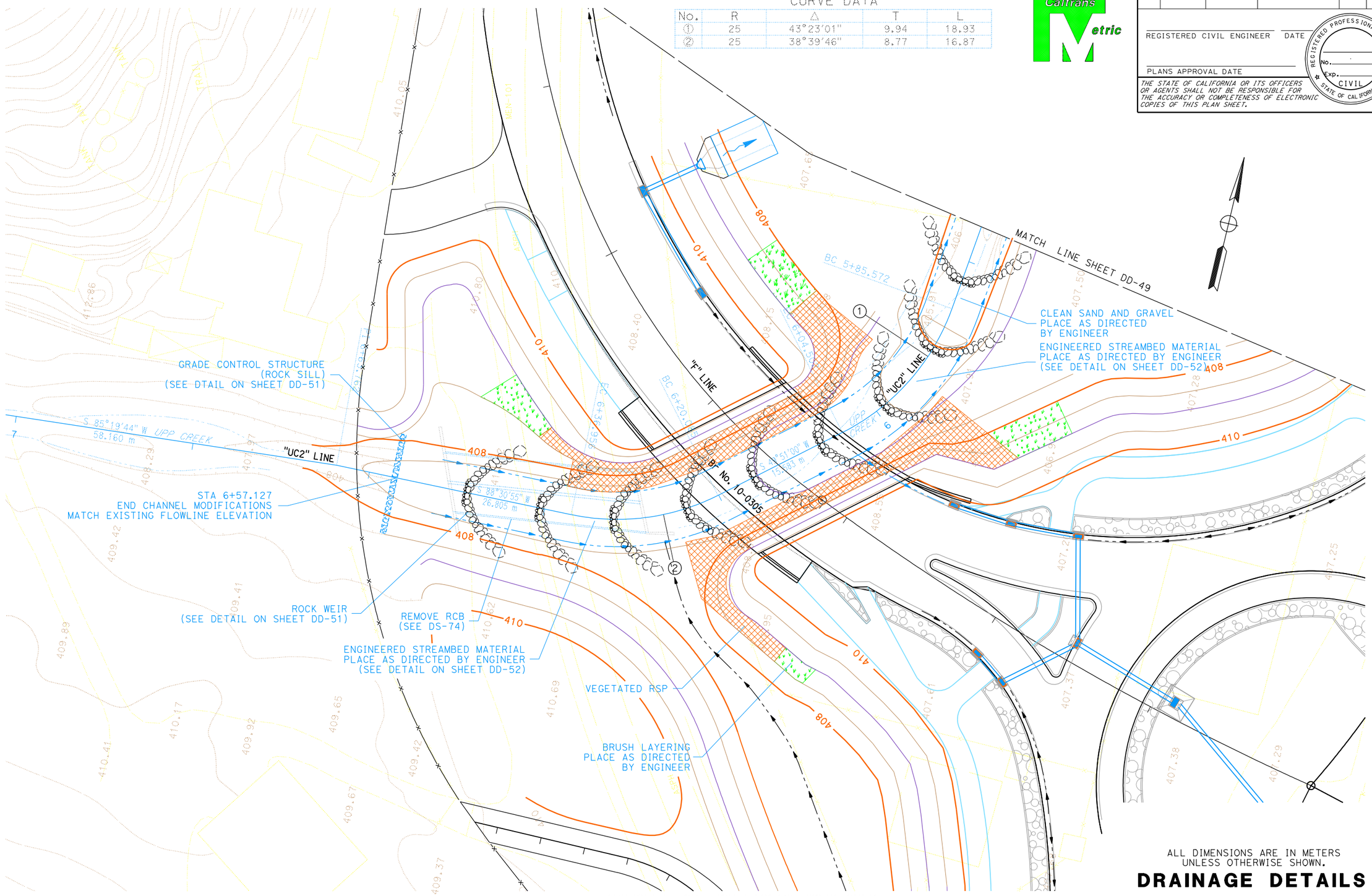
2	25	38°39'46"	8.77	16.87



APPROVED FOR FISH PASSAGE WORK ONLY.

ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN.

DRAINAGE DETAILS

NO SCALE

DD-50

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans **03-DESIGN EAST**

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES

CALCULATED-DESIGNED BY

CHECKED BY

REVISED BY

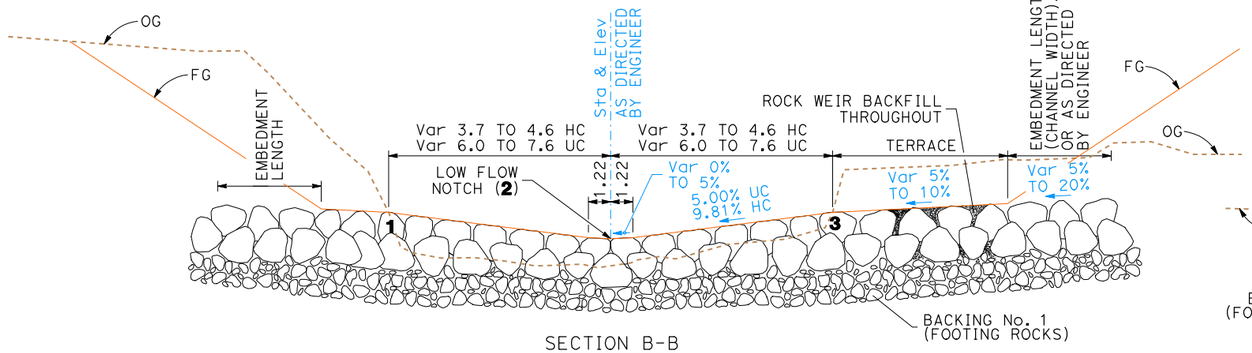
DATE REVISED

LAST REVISION 09-23-11

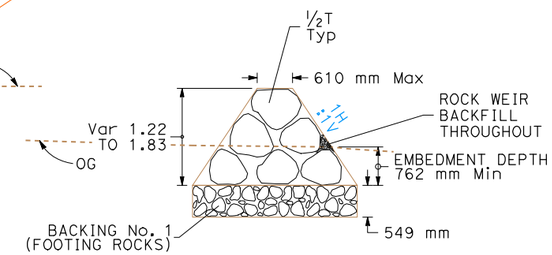
DATE PLOTTED => 29-SEP-2011
TIME PLOTTED => 12:38

NOTES:

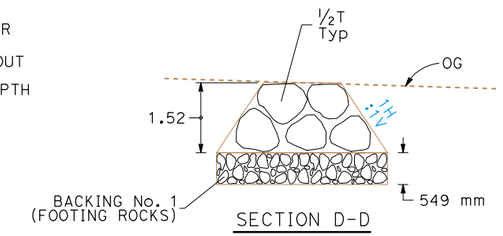
1. ½T ROCKS FOR ROCK WEIR AND ROCK SILLS ARE PLACED INDIVIDUALY, PACKED TIGHTLY TOGETHER, AND HAVE A MINIMUM OF THREE CONTACT POINTS WITH ADJACENT ROCKS.
2. PLACEMENT OF STONES 1, 2 AND 3 ARE TO BE DONE UNDER THE DIRECTION OF THE ENGINEER.



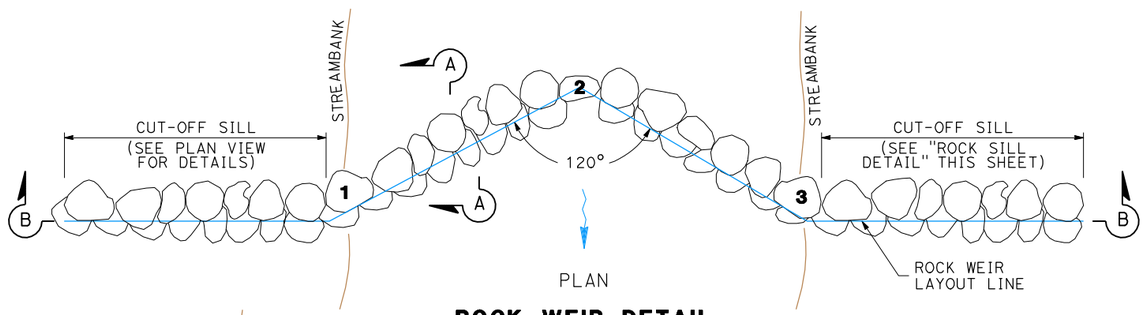
SECTION B-B



SECTION A-A



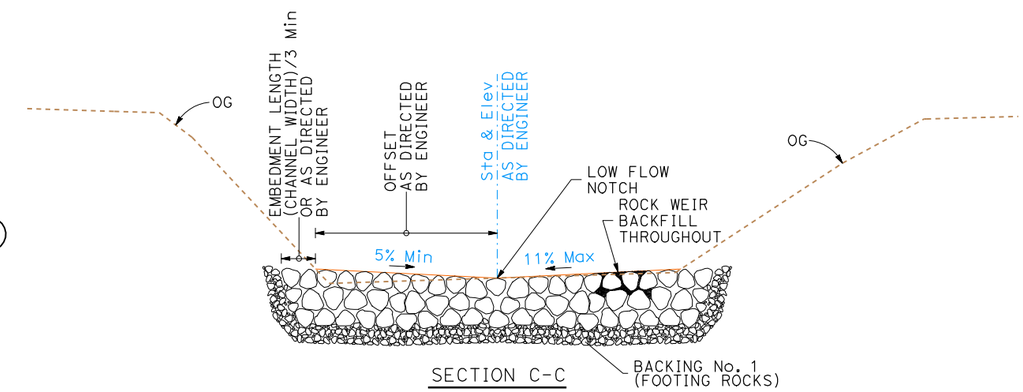
SECTION D-D



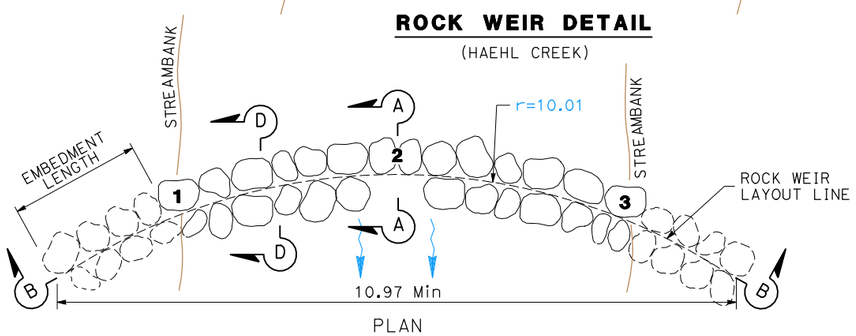
PLAN

ROCK WEIR DETAIL

(HAEHL CREEK)



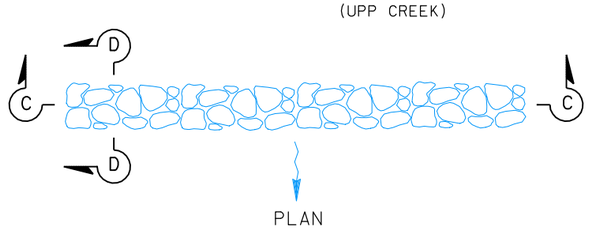
SECTION C-C



PLAN

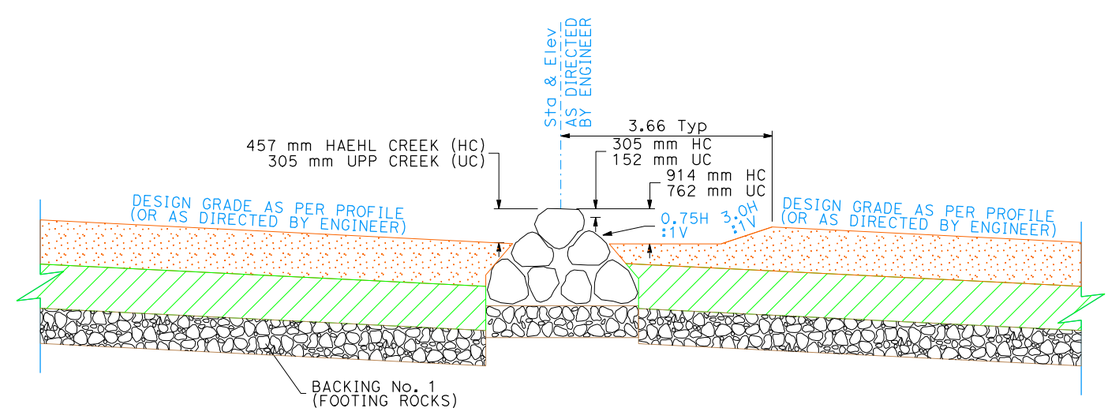
ROCK WEIR DETAIL

(UPP CREEK)



PLAN

ROCK SILL DETAIL



SCOUR POOL DETAIL

APPROVED FOR FISH PASSAGE WORK ONLY.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

DRAINAGE DETAILS

NO SCALE

DD-51

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans 03-DESIGN EAST

LAST REVISION 08-12-11 | DATE PLOTTED => 29-SEP-2011 | TIME PLOTTED => 12:38

NOTES:

1. PLACEMENT OF HABITAT BOULDERS ARE TO BE DONE UNDER THE DIRECTION OF THE ENGINEER.
2. SUCCESSIVE DOWNSTREAM BOULDER SHOULD BE PLACED AT THE PERIPHERY OF THE WAKE OF UPSTREAM BOULDERS.

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER DATE

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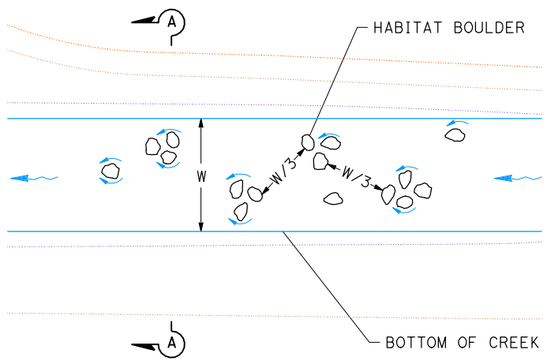
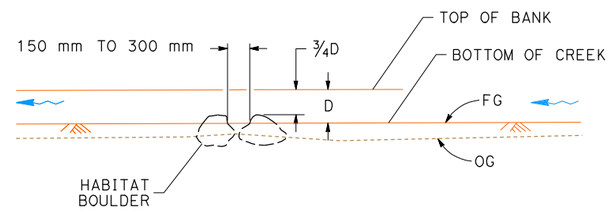
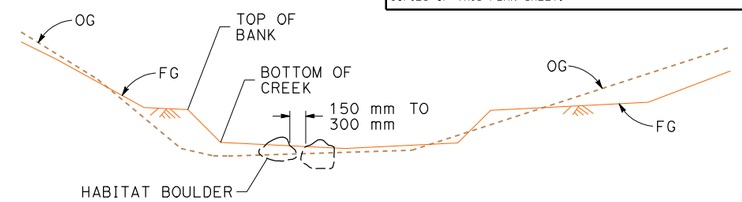
Caltrans Metric



PLAN

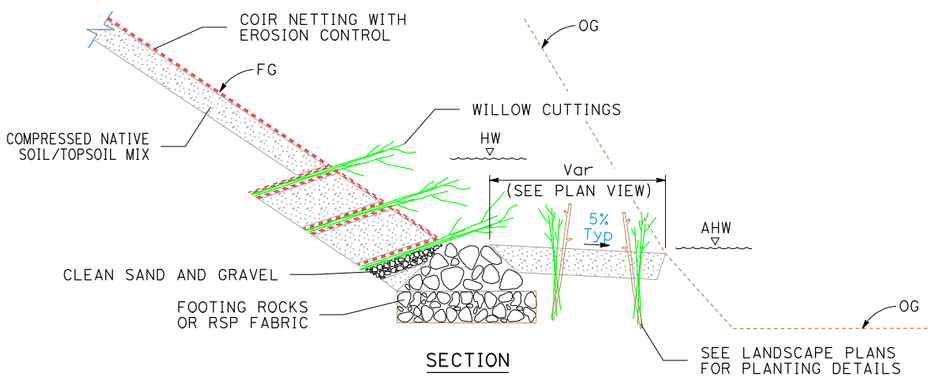


PROFILE



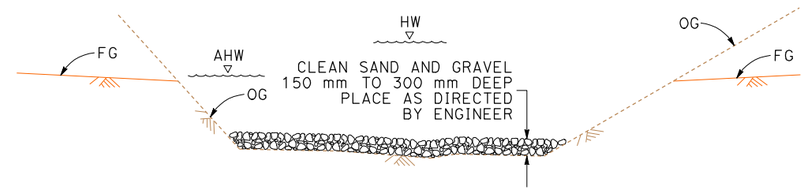
SECTION A-A

HABITAT BOULDER

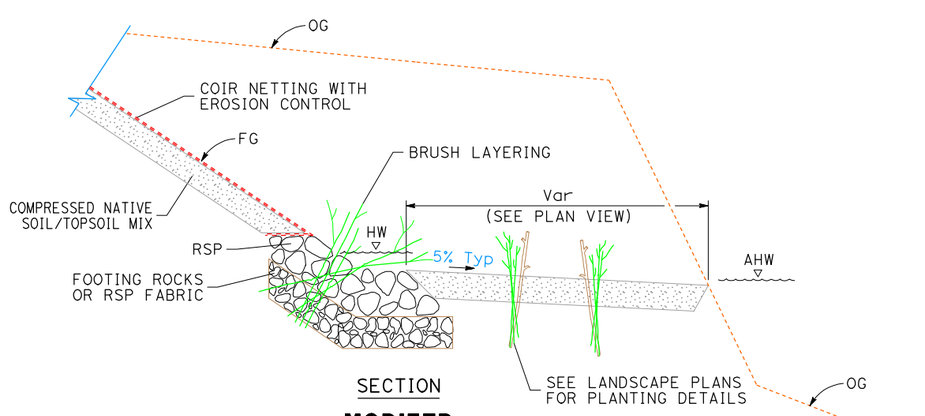


SECTION

MODIFED LONGITUDINAL STONE TOE WITH BRUSH LAYERING

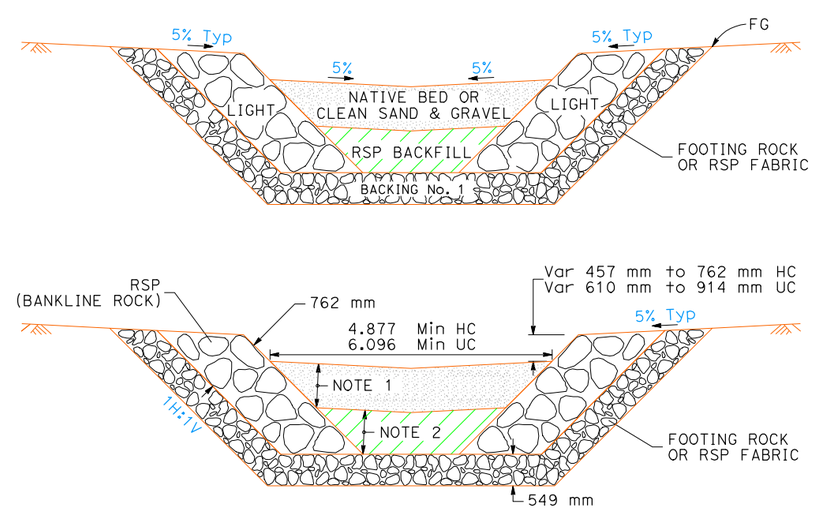


PLACING CLEAN SAND & GRAVEL IN EXISTING STREAMBED



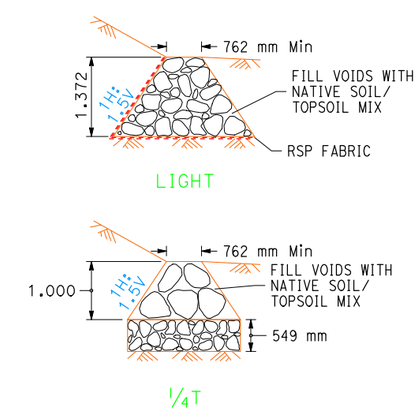
SECTION

MODIFED VEGETATED RIPRAP



NOTES
1. FOR HAEHL CREEK 762 mm, UPP CREEK 762 mm.
2. FOR HAEHL CREEK 762 mm, UPP CREEK 762 mm.

TYPICAL BANKLINE ROCK & ENGINEERED STREAMBED MATERIAL



SECTION

LONGITUDINAL STONE TOE DETAIL

APPROVED FOR FISH PASSAGE WORK ONLY.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

DRAINAGE DETAILS

NO SCALE

DD-52

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES

CALCULATED-DESIGNED BY | CHECKED BY

REVISED BY | DATE REVISED

LAST REVISION 08-12-11 | DATE PLOTTED => 29-SEP-2011 | TIME PLOTTED => 12:38

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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Caltrans Metric

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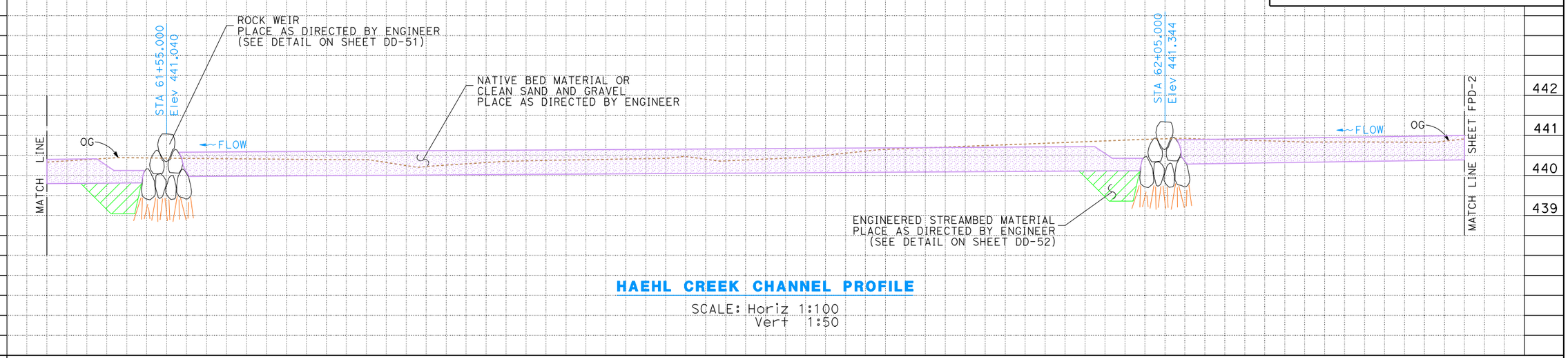
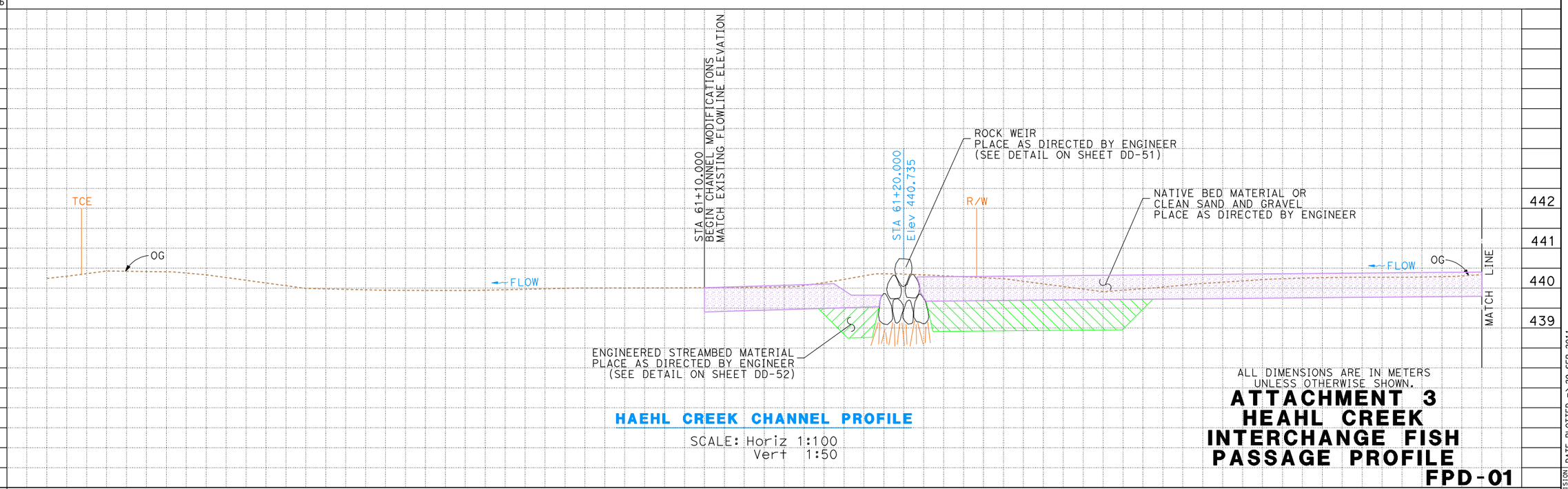
CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES



HAEHL CREEK CHANNEL PROFILE

SCALE: Horiz 1:100
Vert 1:50



HAEHL CREEK CHANNEL PROFILE

SCALE: Horiz 1:100
Vert 1:50

ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN.

ATTACHMENT 3
HEAHL CREEK INTERCHANGE FISH PASSAGE PROFILE

FPD-01

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans **03-DESIGN EAST**

LAST REVISION 09-27-11 | DATE PLOTTED => 29-SEP-2011 | TIME PLOTTED => 12:39

BORDER LAST REVISED 3/1/2007

RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME => s111066
DGN FILE => zFishPassage53.dgn

CU 03221

EA 262001

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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Caltrans Metric

REVISED BY | DATE REVISED

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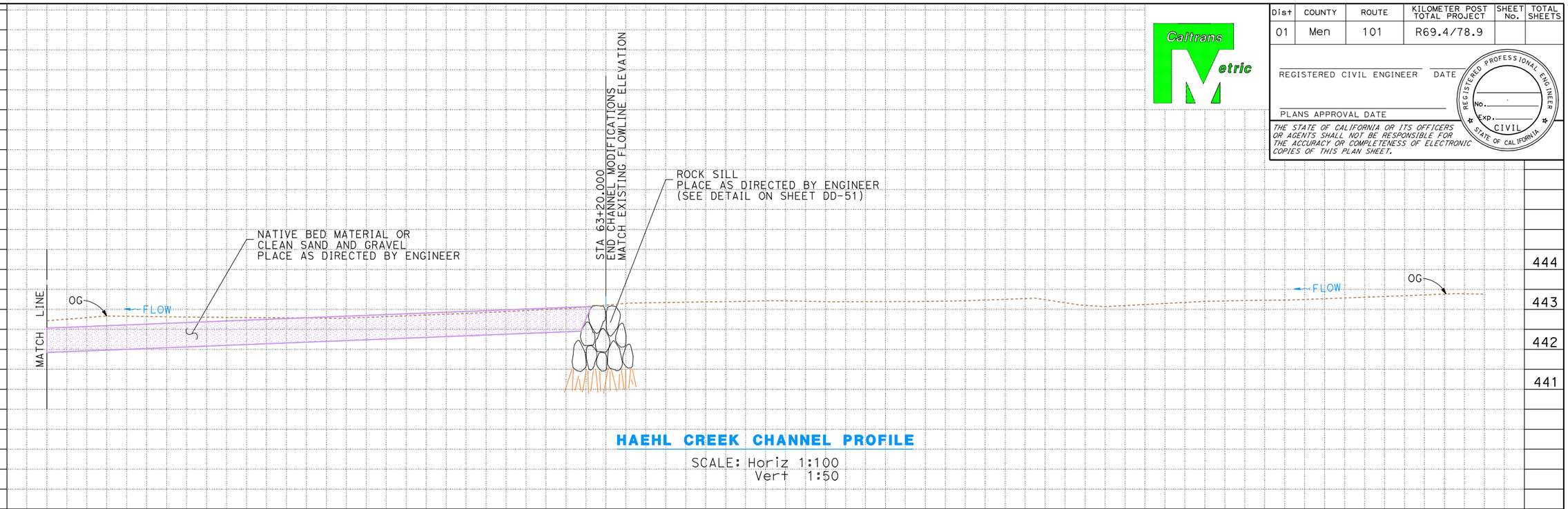
FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES

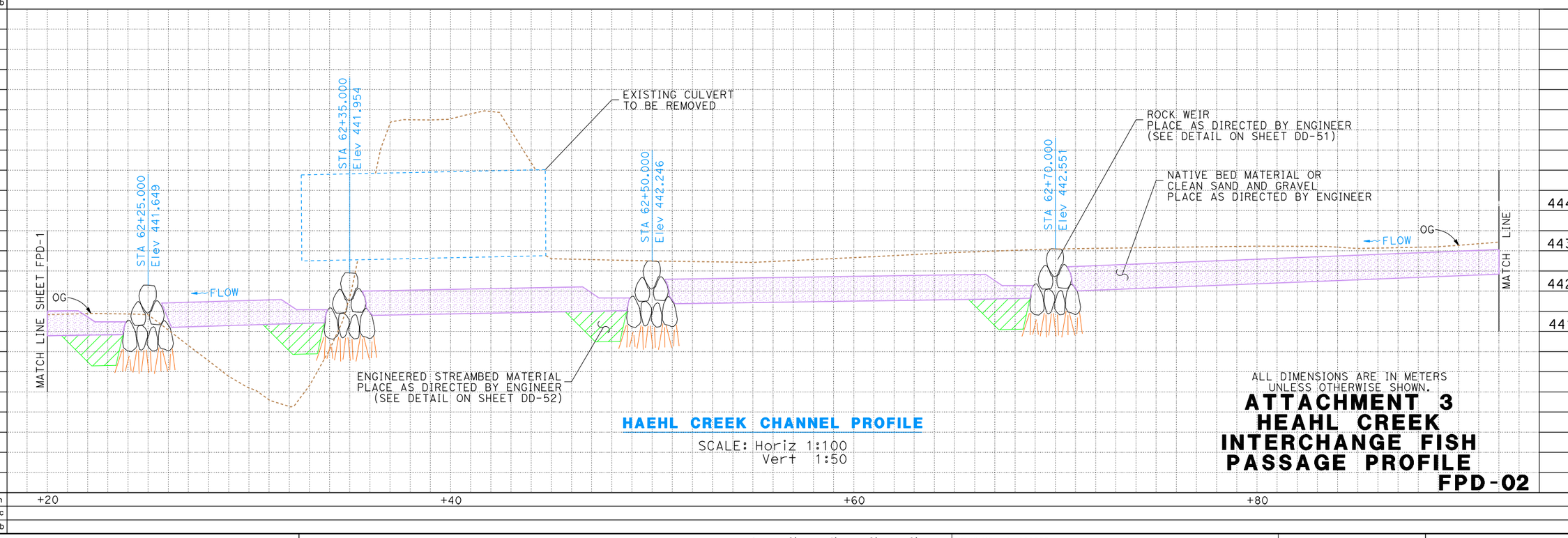
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans 03-DESIGN EAST



HAEHL CREEK CHANNEL PROFILE

SCALE: Horiz 1:100
Vert 1:50



HAEHL CREEK CHANNEL PROFILE

SCALE: Horiz 1:100
Vert 1:50

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

ATTACHMENT 3 HEAHL CREEK INTERCHANGE FISH PASSAGE PROFILE

FPD-02

LAST REVISION 09-27-11 | DATE PLOTTED => 29-SEP-2011 | TIME PLOTTED => 12:39

BORDER LAST REVISED 3/1/2007 | RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80 | USERNAME => s111066 | DGN FILE => zFishPassage54.dgn | CU 03221 | EA 262001

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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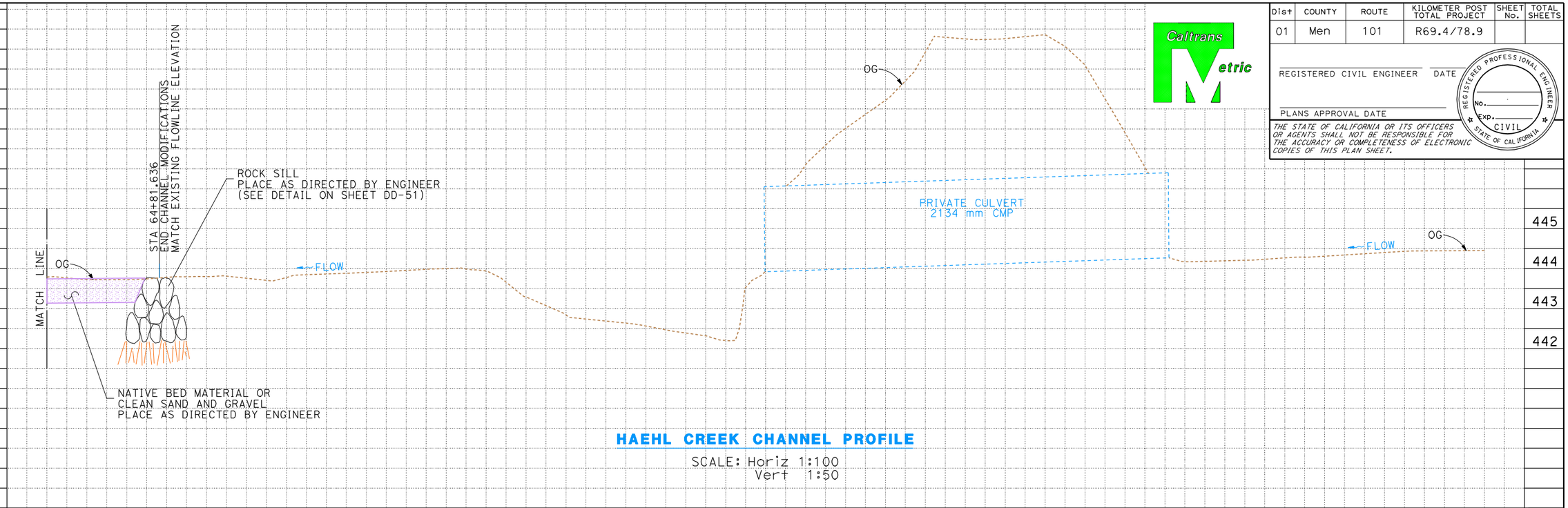
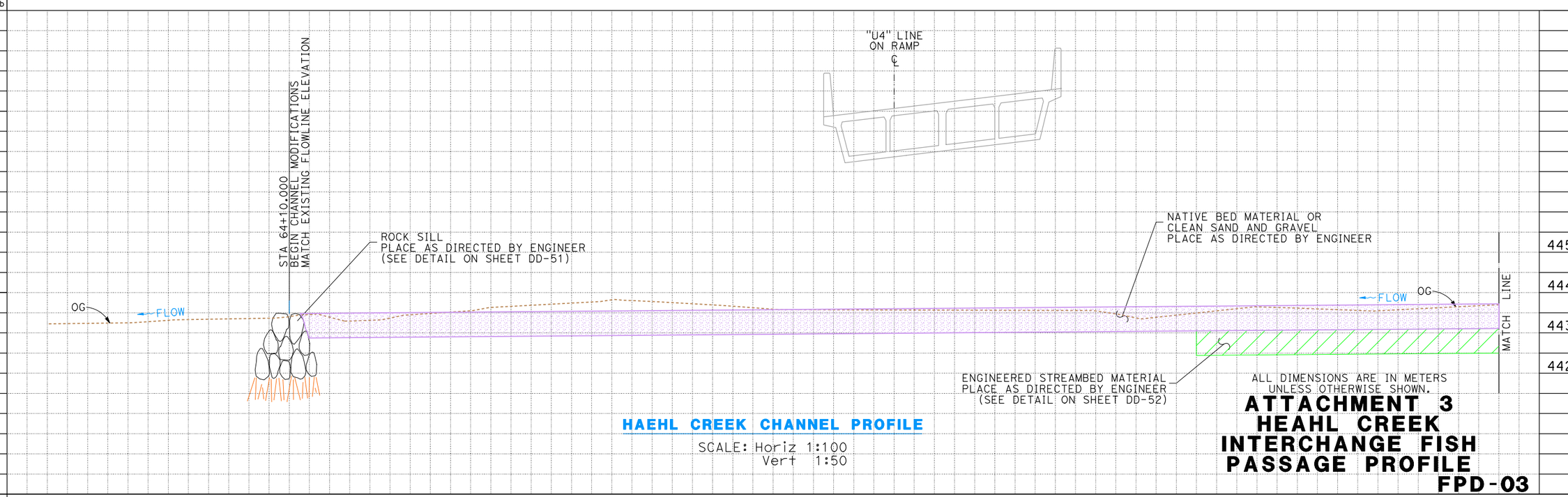


HAEHL CREEK CHANNEL PROFILE

SCALE: Horiz 1:100
Vert 1:50



HAEHL CREEK CHANNEL PROFILE

SCALE: Horiz 1:100
Vert 1:50

ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN.

ATTACHMENT 3
HEAHL CREEK INTERCHANGE FISH PASSAGE PROFILE

FPD-03

REVISED BY | DATE REVISED

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES

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Caltrans **03-DESIGN EAST**

LAST REVISION 09-27-11 | DATE PLOTTED => 29-SEP-2011 | TIME PLOTTED => 12:39

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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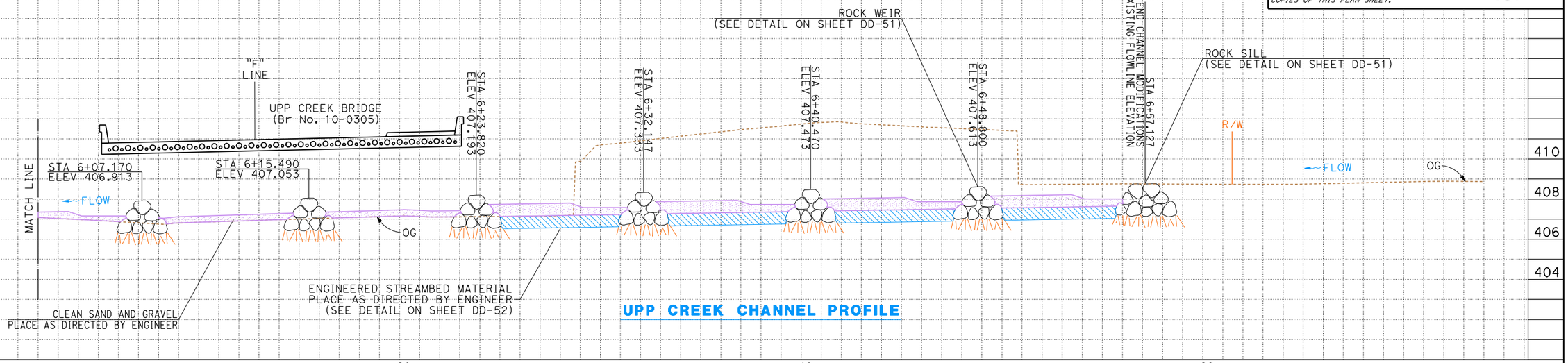
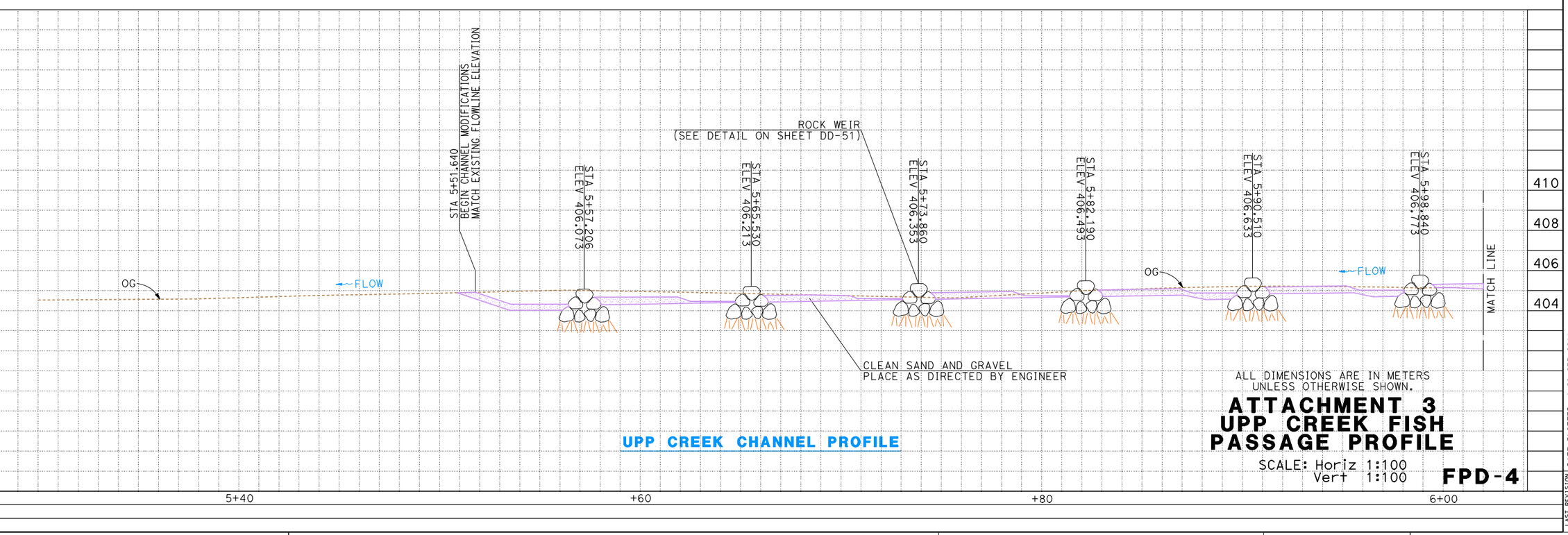
Caltrans Metric



UPP CREEK CHANNEL PROFILE



UPP CREEK CHANNEL PROFILE

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

ATTACHMENT 3
UPP CREEK FISH PASSAGE PROFILE

SCALE: Horiz 1:100
Vert 1:100

FPD-4

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Caltrans **03-DESIGN EAST**

LAST REVISION 09-27-11 | DATE PLOTTED => 29-SEP-2011 | TIME PLOTTED => 12:39

BORDER LAST REVISED 3/1/2007

RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME => s111066
DGN FILE => zFishPassage56.dgn

CU 03221

EA 262001

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT — Signature — Renewal Date — Date — STATE OF CALIFORNIA

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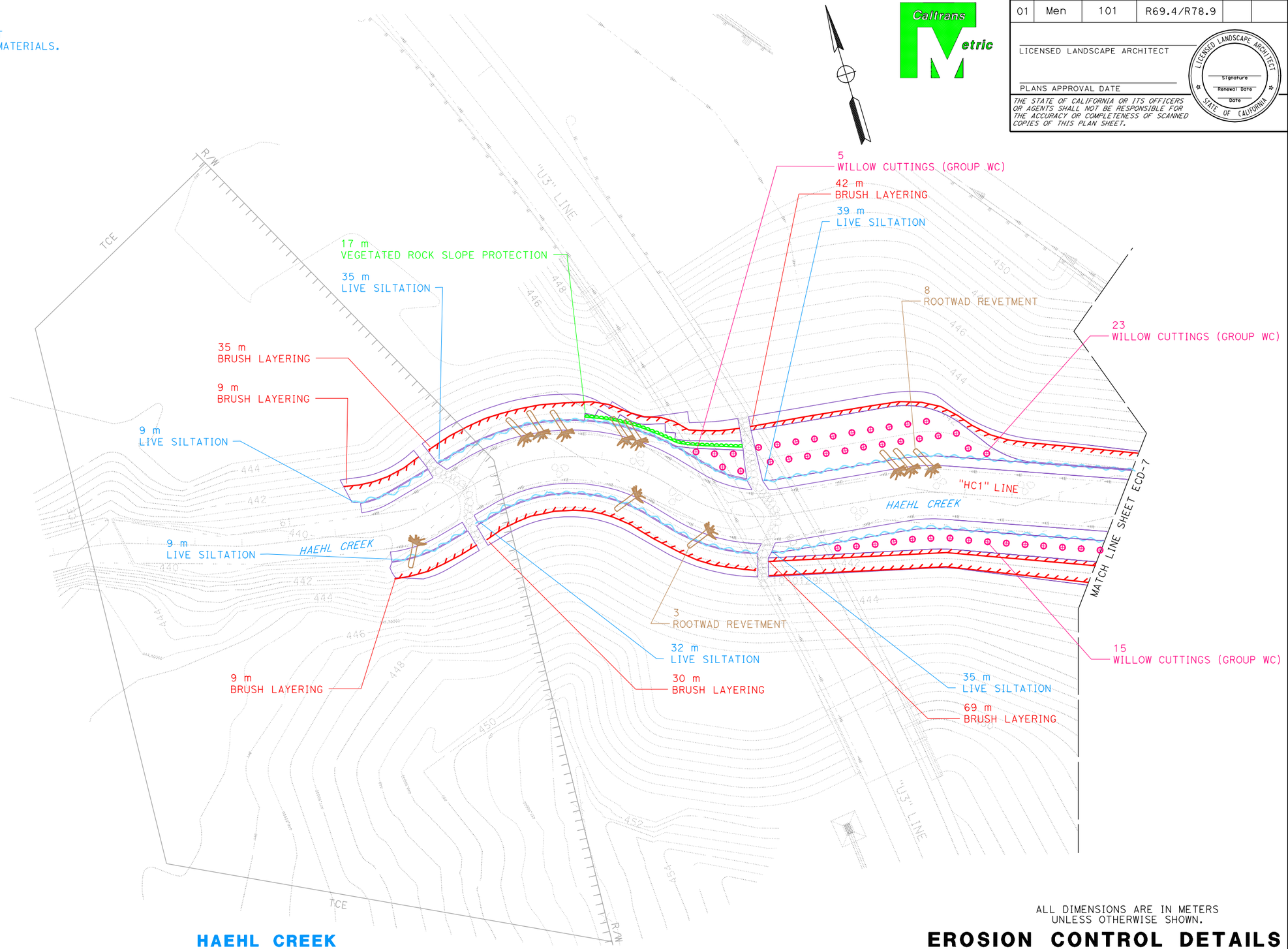
Caltrans Metric

NOTE:

1) SEE EC SHEETS FOR PLACEMENT LOCATIONS OF EROSION CONTROL MATERIALS.

LEGEND:

- WILLOW CUTTINGS (PLANT GROUP WC)
- VEGETATED ROCK SLOPE PROTECTION
- LIVE SILTATION
- BRUSH LAYERING
- ROOTWAD REVETMENT



HAEHL CREEK

THIS SHEET ACCURATE FOR PLANT (TYPE WC) WORK ONLY.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

EROSION CONTROL DETAILS

NO SCALE

ECD-7

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY

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SENIOR LANDSCAPE ARCHITECT

T. CHRIS JOHNSON

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans 03-LANDSCAPE ARCHITECTURE

LAST REVISION 00-00-00

DATE PLOTTED => 29-SEP-2011
TIME PLOTTED => 12:39

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT — Signature — Renewal Date — Date — STATE OF CALIFORNIA

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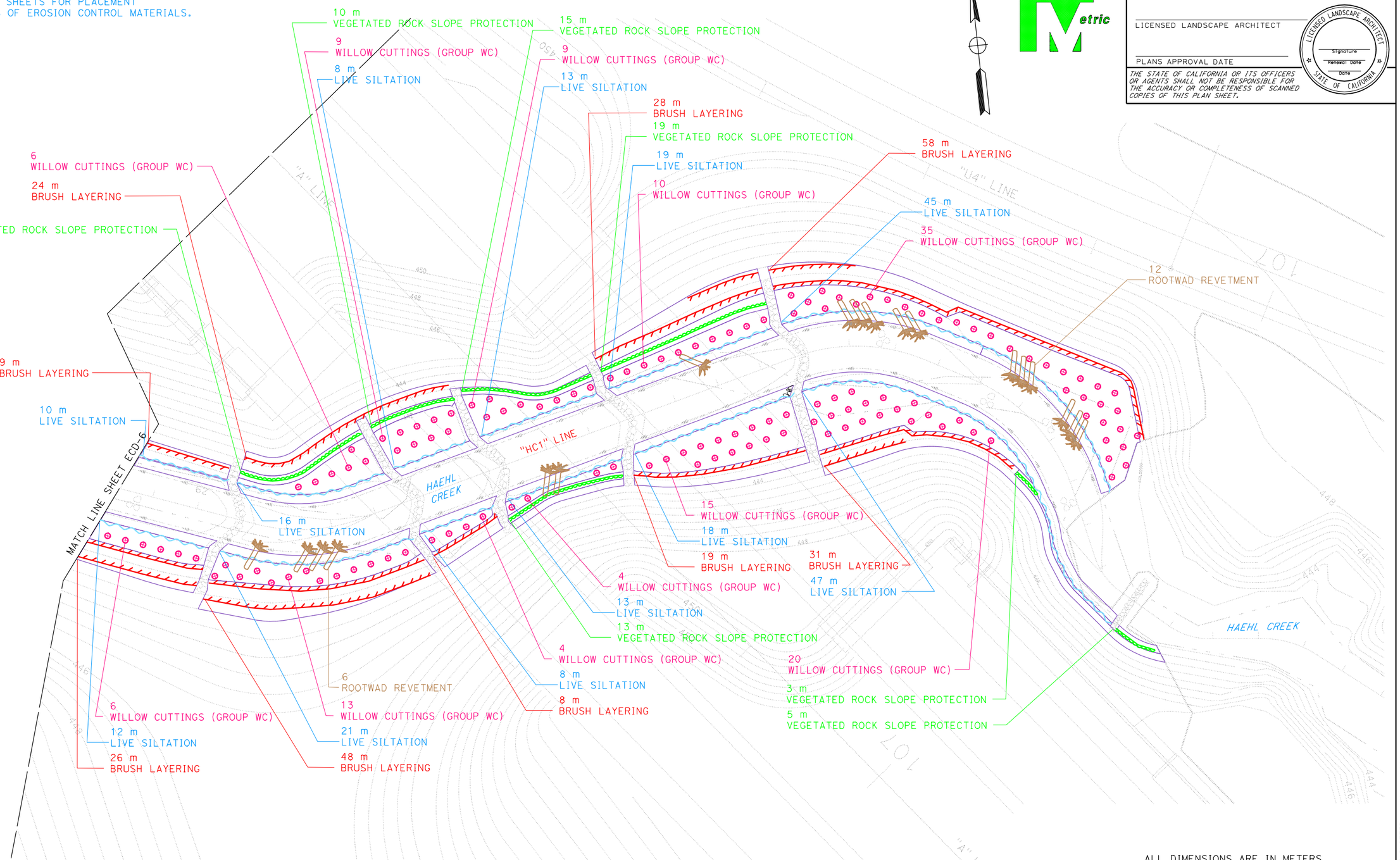
Caltrans Metric

NOTE:

1) SEE EC SHEETS FOR PLACEMENT LOCATIONS OF EROSION CONTROL MATERIALS.



HAEHL CREEK

THIS SHEET ACCURATE FOR PLANT (TYPE WC) WORK ONLY.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

EROSION CONTROL DETAILS

NO SCALE

ECD-8

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SENIOR LANDSCAPE ARCHITECT

T. CHRIS JOHNSON

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans 03-LANDSCAPE ARCHITECTURE

LAST REVISION 00-00-00

DATE PLOTTED => 29-SEP-2011
TIME PLOTTED => 12:39

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT — Signature — Renewal Date — Date — STATE OF CALIFORNIA

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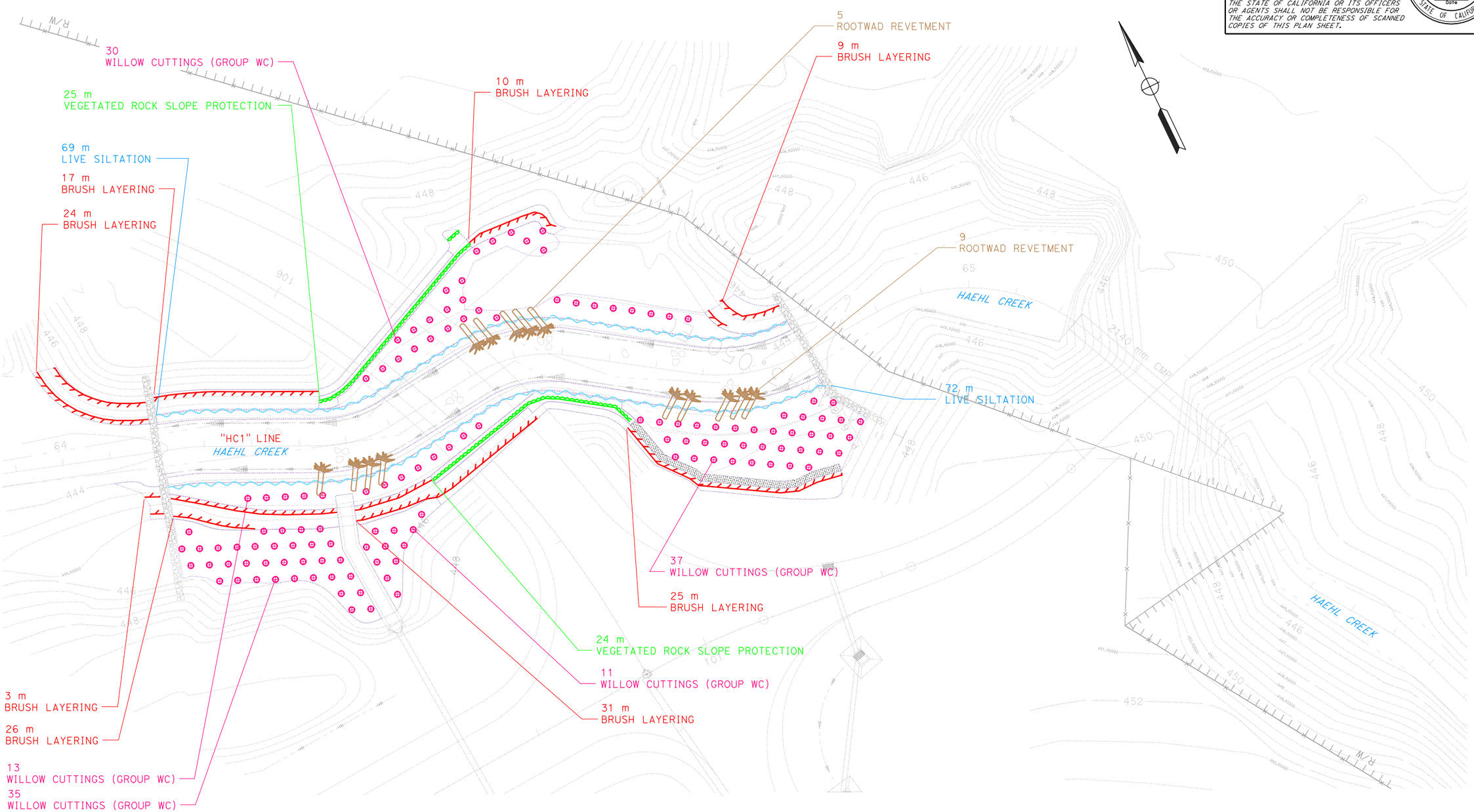
Caltrans Metric

NOTE:

1) SEE EC SHEETS FOR PLACEMENT LOCATIONS OF EROSION CONTROL MATERIALS.



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

HAEHL CREEK

THIS SHEET ACCURATE FOR PLANT (TYPE WC) WORK ONLY.

EROSION CONTROL DETAILS

NO SCALE

ECD-9

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CALCULATED-DESIGNED BY

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SENIOR LANDSCAPE ARCHITECT: T. CHRIS JOHNSON

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans 03-LANDSCAPE ARCHITECTURE

LAST REVISION 00-00-00

DATE PLOTTED => 29-SEP-2011
TIME PLOTTED => 12:39

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

Signature
Renewal Date
Date

LICENSED LANDSCAPE ARCHITECT — STATE OF CALIFORNIA

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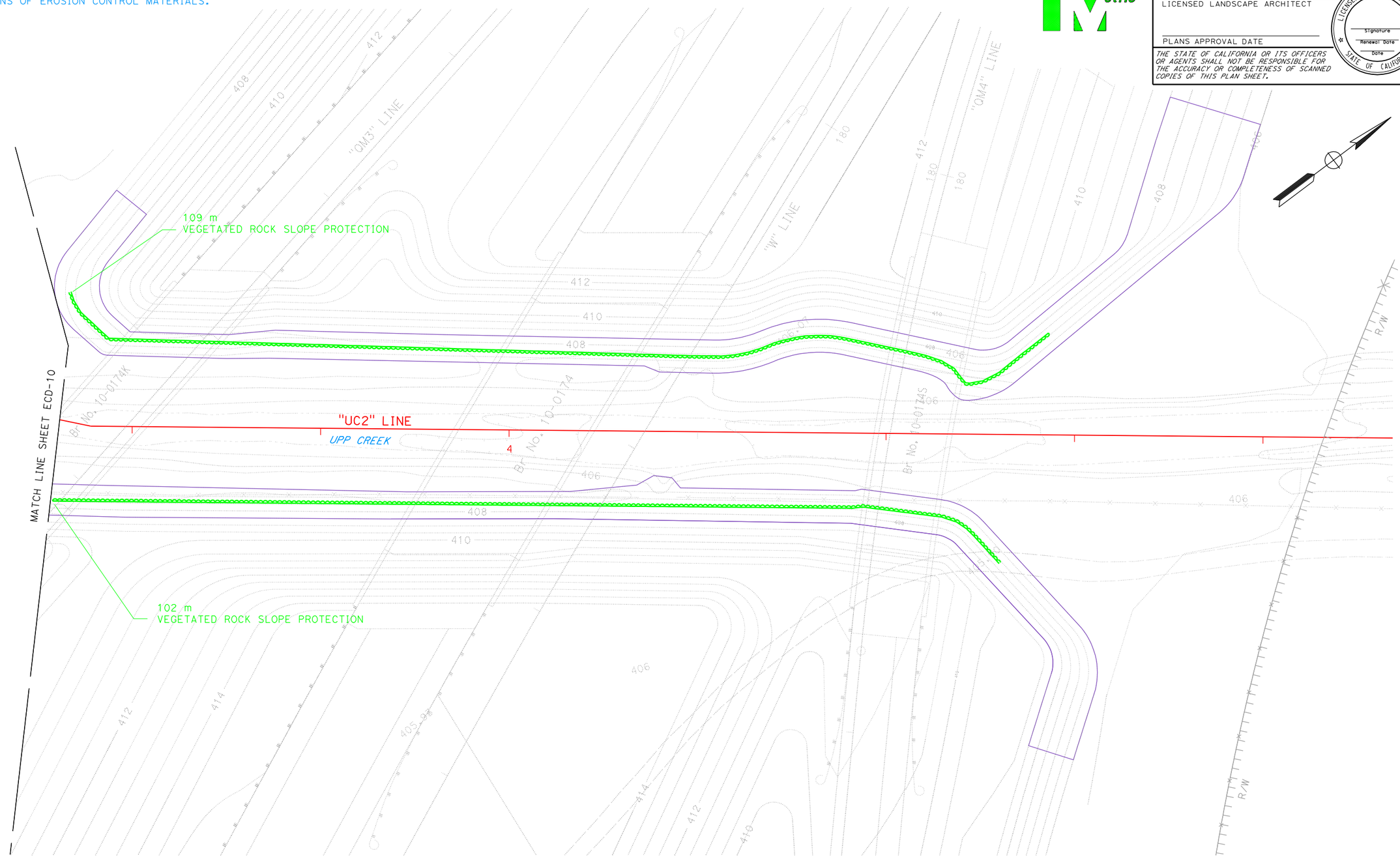
NOTE:

1) SEE EC SHEETS FOR PLACEMENT LOCATIONS OF EROSION CONTROL MATERIALS.



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

UPP CREEK

THIS SHEET ACCURATE FOR PLANT (TYPE WC) WORK ONLY.

EROSION CONTROL DETAILS

NO SCALE

ECD-10

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans 03-LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT: T. CHRIS JOHNSON

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DATE REVISED

LAST REVISION 00-00-00

DATE PLOTTED => 29-SEP-2011
TIME PLOTTED => 12:39

BORDER LAST REVISED 3/1/2007

RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME => s111066
DGN FILE => zFishPassage60.dgn

CU 0381

EA 262001

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT — Signature — Renewal Date — Date — STATE OF CALIFORNIA

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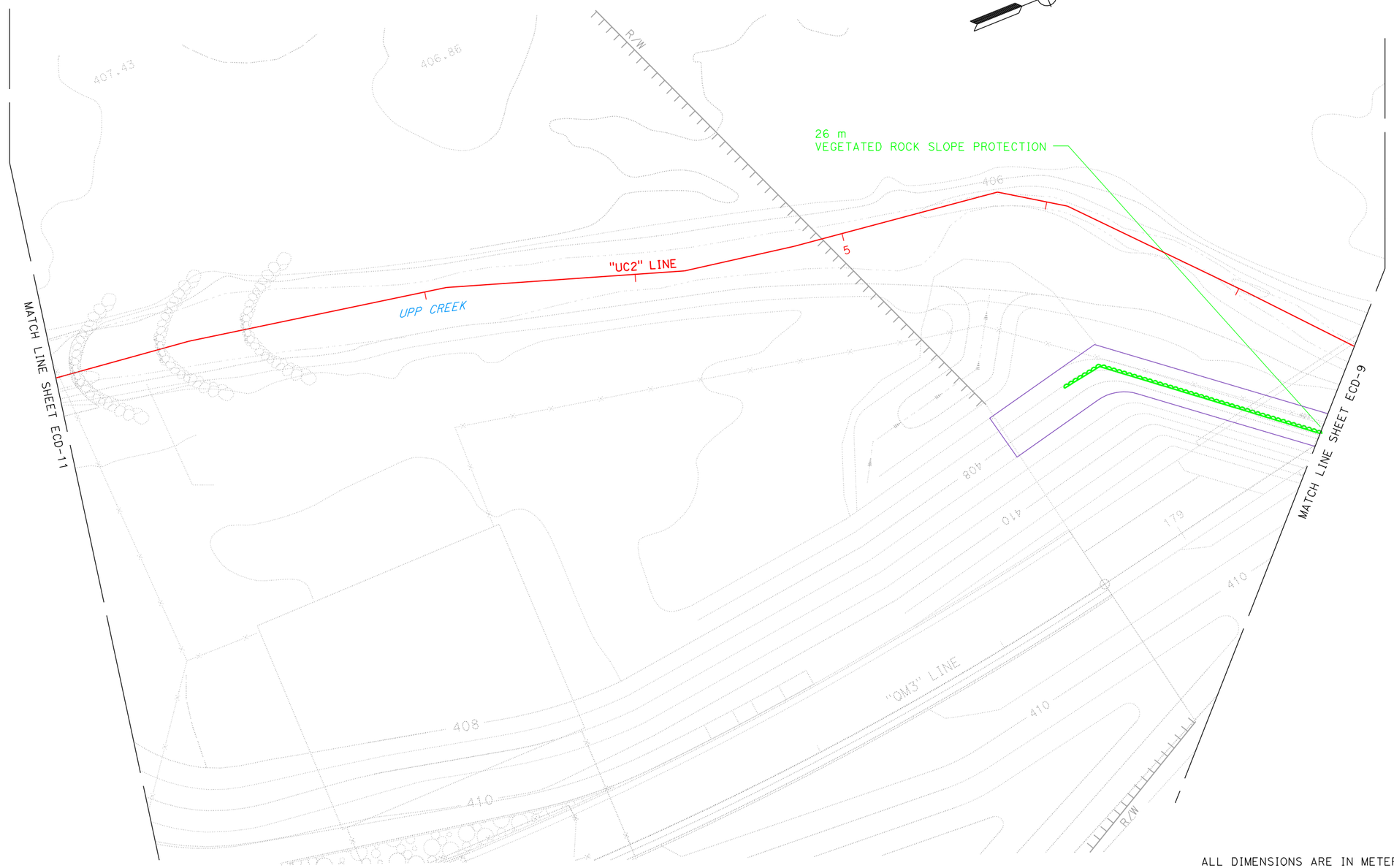
NOTE:

1) SEE EC SHEETS FOR PLACEMENT LOCATIONS OF EROSION CONTROL MATERIALS.



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

UPP CREEK

THIS SHEET ACCURATE FOR PLANT (TYPE WC) WORK ONLY.

EROSION CONTROL DETAILS

NO SCALE

ECD-11

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans 03-LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT: T. CHRIS JOHNSON

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DATE REVISED

LAST REVISION 00-00-00

DATE PLOTTED => 29-SEP-2011

TIME PLOTTED => 12:39

BORDER LAST REVISED 3/1/2007

RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME => s111066

DGN FILE => zFishPassage61.dgn

CU 0381

EA 262001

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT — Signature — Renewal Date — Date — STATE OF CALIFORNIA

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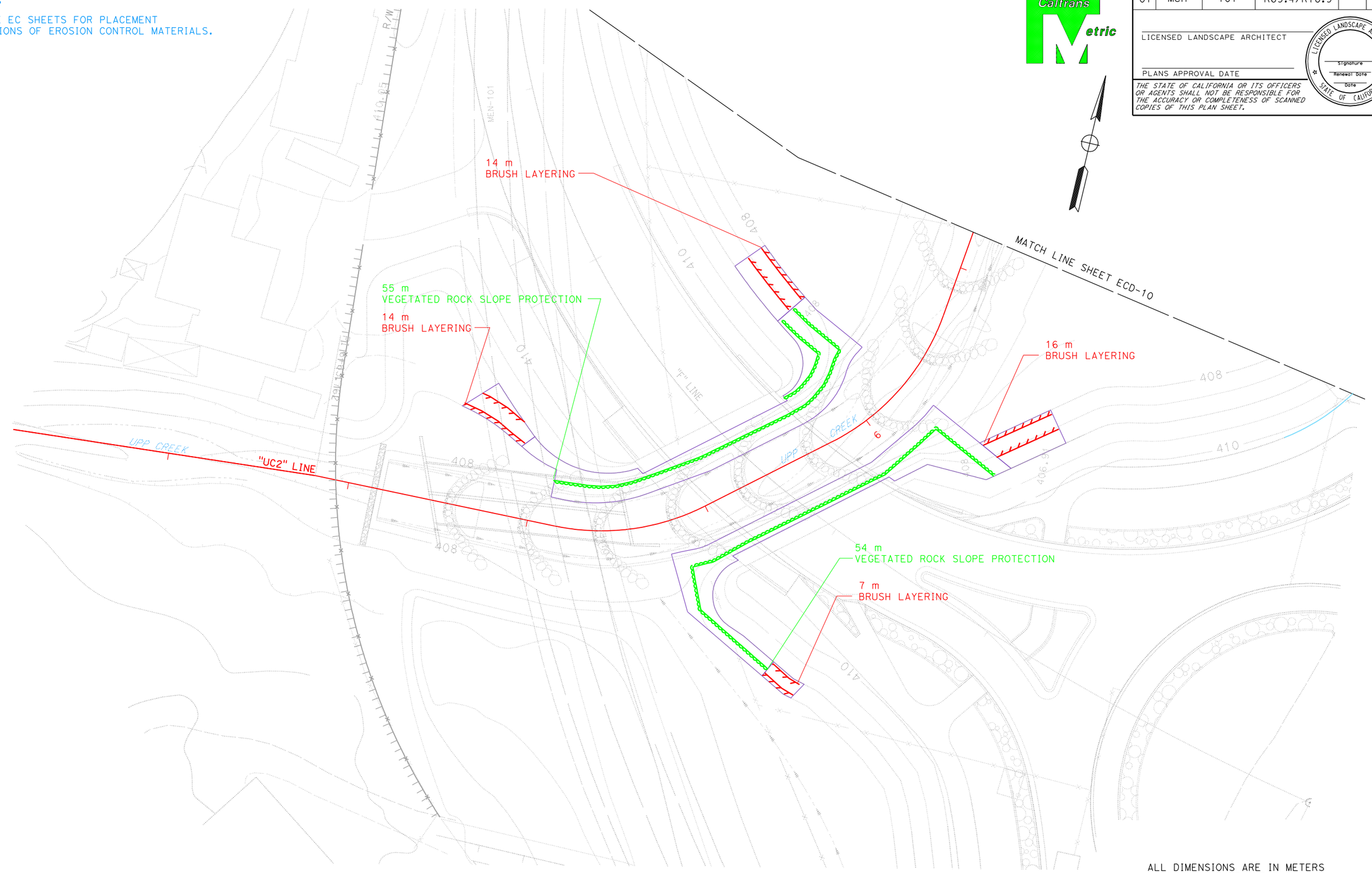
NOTE:

1) SEE EC SHEETS FOR PLACEMENT LOCATIONS OF EROSION CONTROL MATERIALS.



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

EROSION CONTROL DETAILS

NO SCALE

ECD-12

UPP CREEK

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SENIOR LANDSCAPE ARCHITECT: T. CHRIS JOHNSON

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USERNAME => s111066
DGN FILE => zFishPassage62.dgn

CU 0381

EA 262001

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

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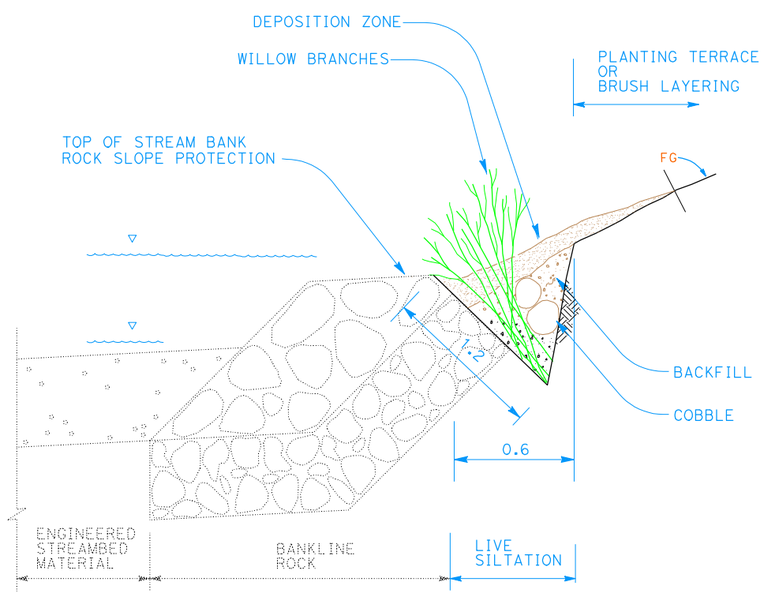
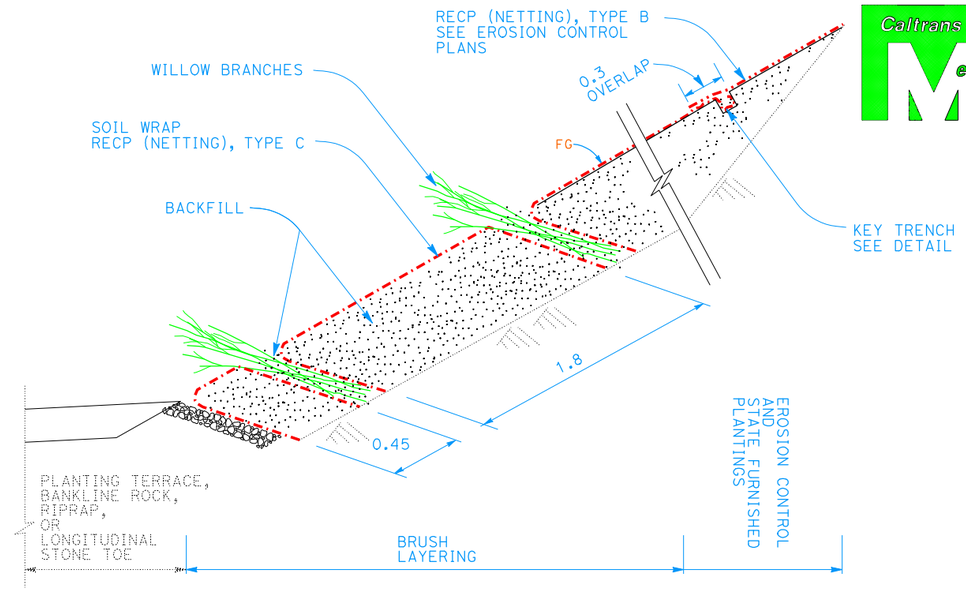
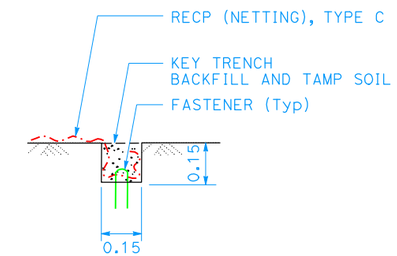


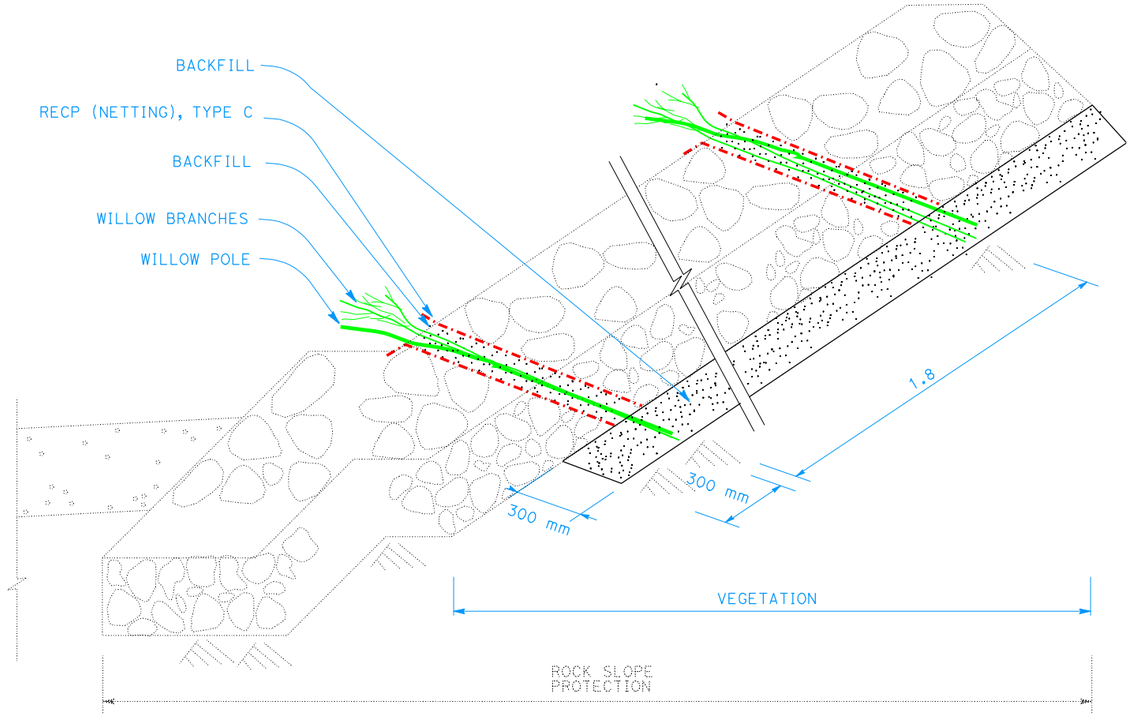
SECTION
LIVE SILTATION



SECTION
BRUSH LAYERING



SECTION
KEY TRENCH DETAIL



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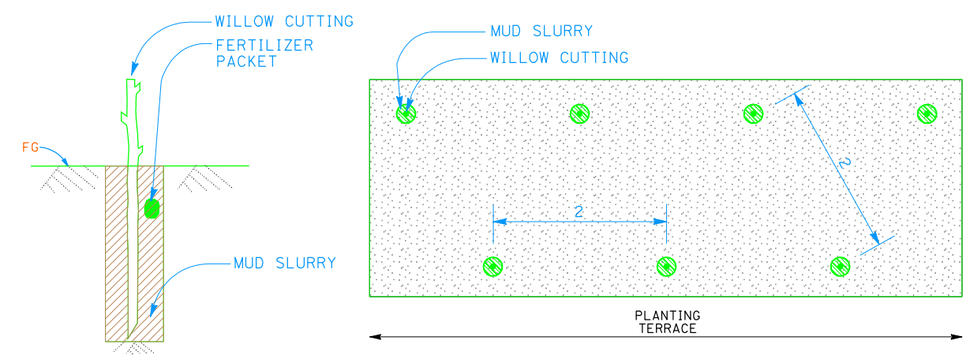
VEGETATED ROCK SLOPE PROTECTION



SECTION

PLAN

WILLOW CUTTINGS (PLANT GROUP WC)

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

EROSION CONTROL DETAILS

NO SCALE

THIS SHEET ACCURATE FOR EROSION CONTROL WORK ONLY.

ECD-13

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Caltrans 03-LANDSCAPE ARCHITECTURE

LAST REVISION 00-00-00

DATE PLOTTED => 29-SEP-2011
TIME PLOTTED => 12:39

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

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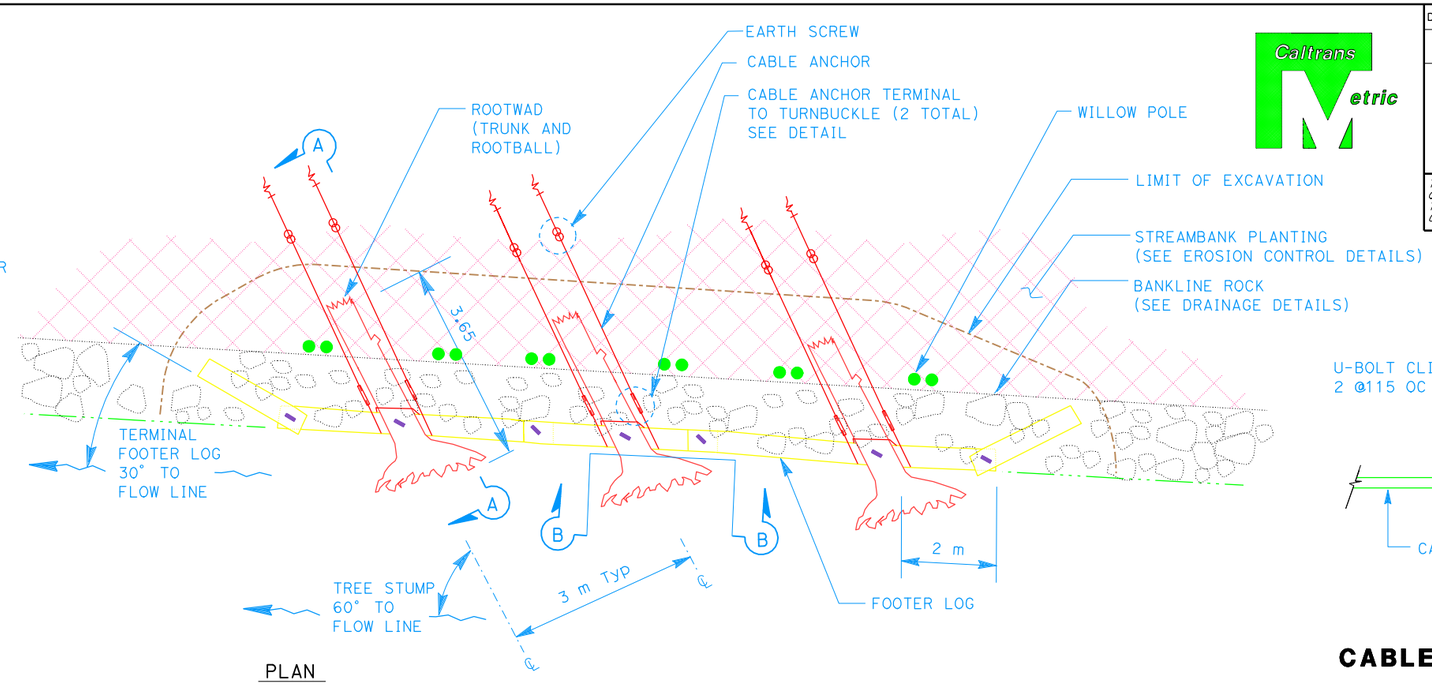
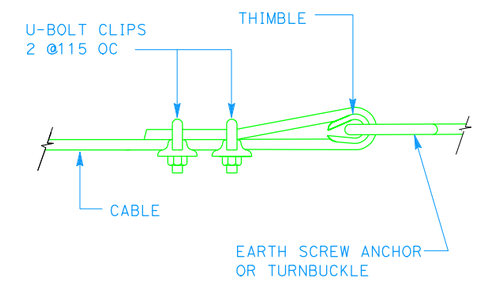
Caltrans Metric

NOTES:

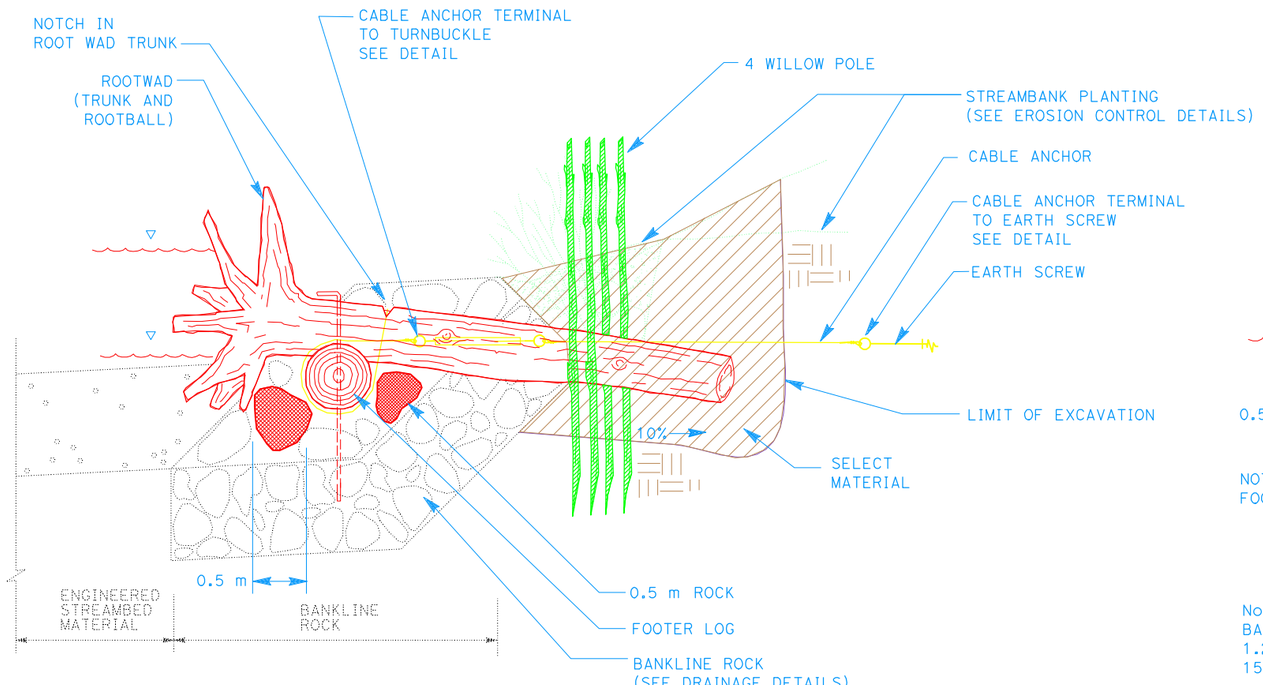
1. ROOT WAD SHALL BE PLACED SUCH THAT THE FOOTER LOG IS PLACED BENEATH THE ROOT WAD.
2. FIELD CONDITIONS MAY VARY. FINAL CONFIGURATION SHALL BE DETERMINED BY ENGINEER.
3. PLACE A MINIMUM OF ONE 0.5 m ROCK ON EITHER SIDE OF FOOTER LOG DIRECTLY UNDER ROOT WAD.
4. REINFORCING BAR STAKES SHALL BE DRIVEN THROUGH PRE-DRILLED HOLE UNTIL STAKE HEAD IS FLUSH WITH LOG.
5. SEE DRAINAGE PLANS FOR FURTHER INFORMATION.



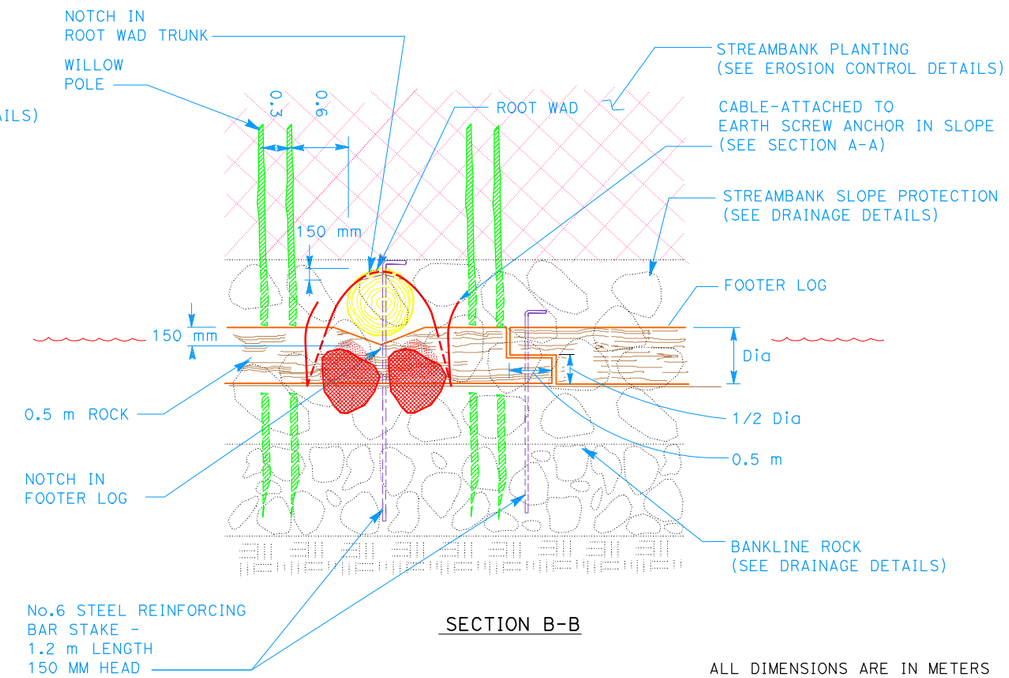
PLAN



CABLE ANCHOR TERMINAL



SECTION A-A



SECTION B-B

ROOTWAD REVETMENT

THIS SHEET ACCURATE FOR EROSION CONTROL WORK ONLY.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

EROSION CONTROL DETAILS

NO SCALE

ECD-14

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT: T. CHRIS JOHNSON

CALCULATED-DESIGNED BY | CHECKED BY

REVISED BY | DATE REVISED

LAST REVISION 00-00-00 | DATE PLOTTED => 29-SEP-2011 | TIME PLOTTED => 12:39

BORDER LAST REVISED 3/1/2007 | RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80 | USERNAME => s111066 | DGN FILE => zFishPassage64.dgn | CU 0381 | EA 262001