Skyview Road Pedestrian Bridge

Over French Valley Channel

Community of French Valley

Project No. C9-0015

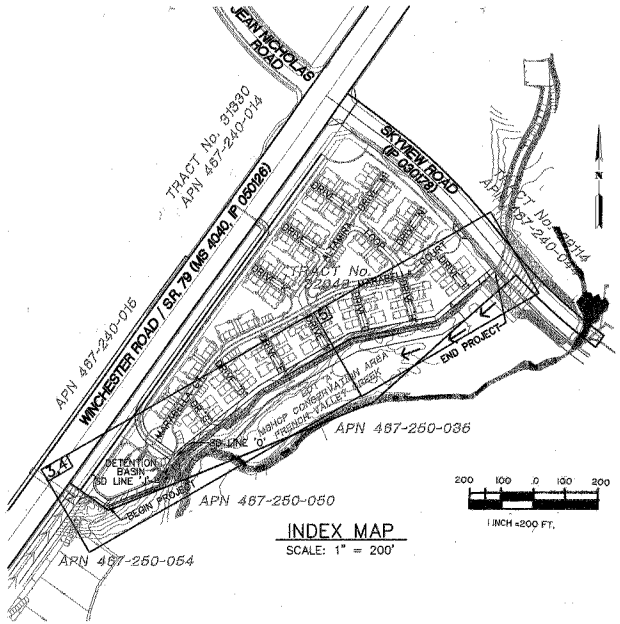
As-Built Plans
RCFC&WCD 7–485
Warm Springs Valley, French Valley Channel

Notice regarding these As-Built Plans:

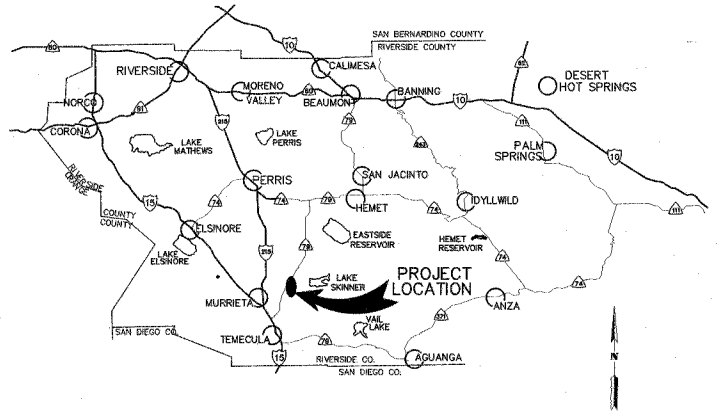
These plans are provided for reference only.

Although this information represents the latest information available, the County of Riverside Transportation Department does not guarantee the accuracy of this data.

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
BELLASOL TRACT NO. 32049



INDEX MAP
SCALE: 1" = 200'



VICINITY MAP
NTS

INDEX

	SHEET NO.:
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PLAN & PROFILE	2
LINE "J" AND LINE "O" PLAN AND PROFILE	3
DETAILS AND SLOPE PROTECTION CROSS SECTIONS	4–5

RCFC & WCD STANDARD DRAWINGS

CH333 ACCESS ROAD DRAINAGE APRON

CALTRANS STANDARD DRAWINGS

D-89 WING/HEADWALL

NOTE:
SEE SHEET 2 FOR BOLLARD DETAIL

GENERAL NOTES (RCFC & WCD)

1. THE CONTRACTOR SHALL CONSTRUCT THE FLOOD CONTROL IMPROVEMENTS SHOWN ON THE DRAWINGS IN CONFORMANCE WITH THE REQUIREMENTS OF THE RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT'S M.O.U. STANDARD SPECIFICATIONS DATED SEPTEMBER 1984, AND DESIGN MANUAL STANDARD DRAWINGS DATED APRIL, 2004.
2. IF AN ENCROACHMENT PERMIT IS REQUIRED FROM RIVERSIDE COUNTY FLOOD CONTROL, CONTACT ED LOTZ AT 951/955-1266. AFTER THE PERMIT IS ISSUED THE DISTRICT MUST BE NOTIFIED ONE WEEK PRIOR TO CONSTRUCTION.
3. CONSTRUCTION INSPECTION WILL BE PERFORMED BY RIVERSIDE COUNTY FLOOD CONTROL. CONTACT DALE ANDERSON AT 951/955-1288. THE DISTRICT MUST BE NOTIFIED TWENTY DAYS (20) PRIOR TO CONSTRUCTION.
4. ALL STATIONING REFERS TO CENTERLINE OF CONSTRUCTION UNLESS OTHERWISE NOTED.
5. STATIONING FOR LATERALS AND CONNECTOR PIPE REFER TO THE CENTERLINE INTERSECTION STATIONS.
6. AT LEAST FORTY-EIGHT (48) HOURS BEFORE EXCAVATION, CONTRACTOR WILL CALL UNDERGROUND SERVICE ALERT 1-800-227-2600.
7. ALL ELEVATIONS SHOWN ARE IN FEET AND DECIMALS THEREOF BASED ON U.S.C. & G.S DATUM.
8. ALL CROSS SECTIONS ARE TAKEN LOOKING DOWNSTREAM.
9. ELEVATIONS OF UTILITIES ARE APPROXIMATE UNLESS OTHERWISE NOTED.
10. OPENINGS RESULTING FROM THE CUTTING OR PARTIAL REMOVAL OF EXISTING CULVERTS, PIPES OR SIMILAR STRUCTURES TO BE ABANDONED SHALL BE SEALED WITH 6" OF CLASS "B" CONCRETE.
11. PIPE CONNECTED TO THE MAINLINE PIPE SHALL CONFORM TO JUNCTION STRUCTURE NO. 4 (JS 229) UNLESS OTHERWISE NOTED.
12. PIPE BEDDING SHALL CONFORM TO RCFC&WCD STD. DWG. NO. M815 EXCEPT FOR COVER <2 FEET. FOR COVER <2 FEET, CONCRETE SLURRY (2000 PSI – 2 SACK) SHALL BE USED. THE ENTIRE TRENCH SHALL BE SLURRY EXTENDING 4 INCHES MINIMUM AND 12 INCHES MAXIMUM ABOVE THE TOP OF PIPE.
13. "V" IS THE DEPTH OF CATCH BASINS MEASURED FROM THE NORMAL GUTTER FLOWING TO INVERT OF OUTLET PIPE.
14. CATCH BASINS SHALL BE LOCATED SO THAT THE LOCAL DEPRESSION SHALL BEGIN AT EXISTING CURB RETURN JOINT, UNLESS SPECIFIED.
15. ALL CURBS, GUTTERS, SIDEWALKS, DRIVEWAYS AND OTHER EXISTING IMPROVEMENTS TO BE RECONSTRUCTED IN KIND AND AT THE SAME ELEVATION AND LOCATION AS THE EXISTING IMPROVEMENTS UNLESS OTHERWISE NOTED.
16. STANDARD DRAWINGS CALLED FOR ON THE PLAN AND PROFILE SHALL CONFORM TO DISTRICT STANDARD DRAWINGS UNLESS NOTED OTHERWISE.
17. THE CONTRACTOR IS REQUIRED TO CALL ALL UTILITY AGENCIES REGARDING TEMPORARY SHORING AND SUPPORT REQUIREMENTS FOR THE VARIOUS UTILITY LINES SHOWN ON THESE PLANS.
18. DURING ROUGH GRADING OPERATIONS AND PRIOR TO CONSTRUCTION OF PERMANENT DRAINAGE STRUCTURES, TEMPORARY DRAINAGE CONTROL SHOULD BE PROVIDED TO PREVENT PONDING WATER AND DAMAGE TO ADJACENT PROPERTIES.
19. APPROVAL OF THESE PLANS BY THE RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT DOES NOT RELIEVE THE DEVELOPER'S ENGINEER OF RESPONSIBILITY FOR THE ENGINEERING DESIGN. IF FIELD CHANGES ARE REQUIRED, IT WILL BE THE RESPONSIBILITY OF THE DESIGN ENGINEER TO MAKE THE NECESSARY CORRECTIONS.
20. THE CONTRACTOR OR DEVELOPER SHALL SECURE ALL REQUIRED ENCROACHMENT AND/OR STATE AND FEDERAL REGULATORY PERMITS PRIOR TO THE COMMENCEMENT OF ANY WORK.

RECORD DRAWINGS
APPROVED BY: [signature]
DATE: 10/24/17

REGISTERED PROFESSIONAL ENGINEER JOSEPH L. CASTANEDA No. 58035 EXP. 12/17 CIVIL STATE OF CALIFORNIA

RIVERSIDE COUNTY REGIONAL PARKS AND OPEN-SPACE DISTRICT CERTIFICATE OF ACCEPTANCE

THE RIVERSIDE COUNTY REGIONAL PARKS AND OPEN-SPACE DISTRICT HEREBY ACCEPTS THE DEDICATION OF THE TRAIL EASEMENT AS SHOWN HEREON TO VEST TITLE IN THE DISTRICT ON BEHALF OF THE PUBLIC FOR SAID PURPOSES BUT THAT SAID EASEMENT SHALL NOT BECOME PART OF THE DISTRICT'S MAINTAINED TRAIL SYSTEM.

Paul Fransden 7/26/2006
PAUL FRANSDEN DATED:
GENERAL MANAGER

INGRESS/EGRESS EASEMENT APPROVED BY:
EASTERN MUNICIPAL WATER DISTRICT

CIVIL ENGINEER OF SUBDIVISION:		DATE:			
APPROVALS					
PARCL ENG.	INITIAL	DATE		INITIAL	DATE

IP NO. 050117

BENCHMARK DATUM AND ELEVATION	REVISIONS	ENGINEER		RCFC/WCD	
BM 1419 NGS PID DX 1516, NGVD 29, ELEVATION 1419.95	A SHEET TOTAL CHANGED FROM 5 TO 12				
BENCHMARK DESCRIPTION 4" BRASS USGS SURVEY STANDARD CAP STAMPED 1419 SEA AND SET ON TOP OF A 4" IRON PIPE					
	REF. DESCRIPTION	APPR.	DATE	APPR.	DATE

APPROVED BY: Stantec Consulting, Inc. 27 Roncheros Drive Suite 300 San Marcos, CA 92069 Tel. (760) 891-3200 Fax. (760) 891-3201 www.stantec.com
DAWN MARGUARDT, RCE NO. 60051 DATE: 7-25-06

REGISTERED PROFESSIONAL ENGINEER DAWN E. MARGUARDT No. 60051 Exp. 6/30/08 CIVIL STATE OF CALIFORNIA

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
RECOMMENDED FOR APPROVAL BY: [signature] PLANNING ENGINEER DATE: 3-14-2007
APPROVED BY: [signature] CHIEF ENGINEER DATE: 3-14-2007

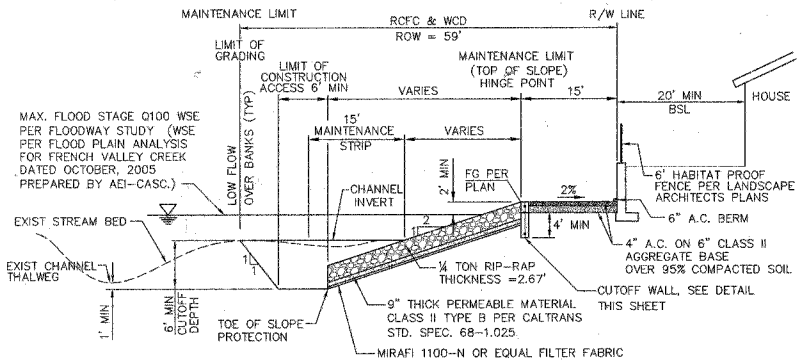
REGISTERED PROFESSIONAL ENGINEER KHALED A. OTHMAN No. 33950 Exp. 06-30-08 CIVIL STATE OF CALIFORNIA

COUNTY OF RIVERSIDE
TRANSPORTATION DEPARTMENT
APPROVED BY: [signature] KHALED A. OTHMAN DATE: 8/16/06
RECOMMENDED BY: [signature] DATE: 8/16/06

BELLASOL – TRACT NO. 32049
WARM SPRINGS VALLEY
FRENCH VALLEY CHANNEL
STAGE 5
TITLE SHEET

PROJECT NO. 7-0-00205
DRAWING NO. 7-485
SHEET NO. 1 OF 5

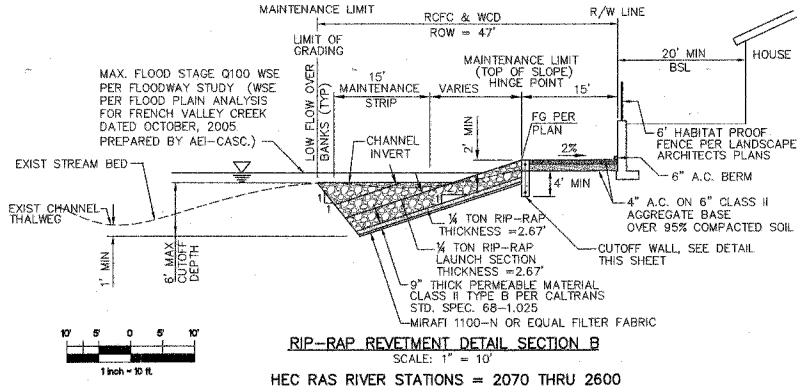
SUPPLEMENTAL PROJECT INFORMATION, AS-BUILT PLANS RCFC&WCD 7-0485, Page 1 of 12



RIP-RAP REVETMENT DETAIL SECTION A

SCALE: 1" = 10'

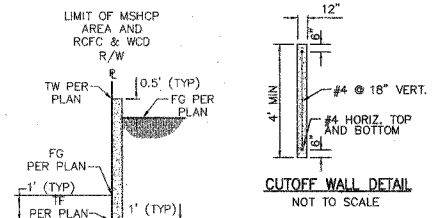
HEC RAS RIVER STATIONS = 2600 THRU 3400
CHANNEL STATIONS = 16+02.05 THRU 24+23.95



RIP-RAP REVETMENT DETAIL SECTION B

SCALE: 1" = 10'

HEC RAS RIVER STATIONS = 2070 THRU 2600
CHANNEL STATIONS = 11+86.76 THRU 16+02.05



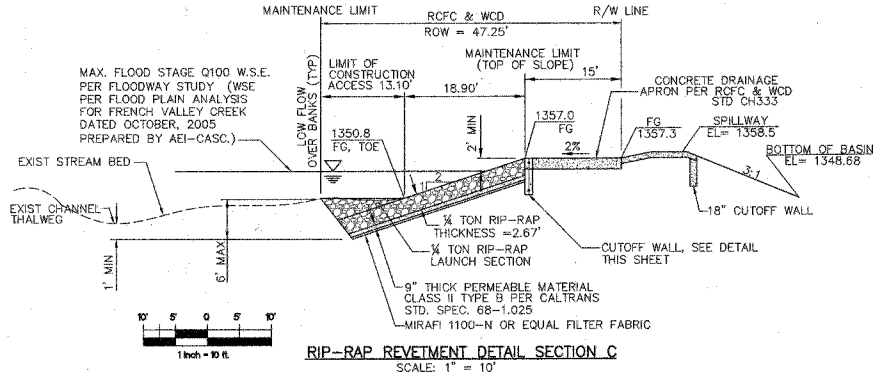
RETAINING WALL SECTION

NOT TO SCALE

(UNDER SEPARATE PERMIT)

CUTOFF WALL DETAIL

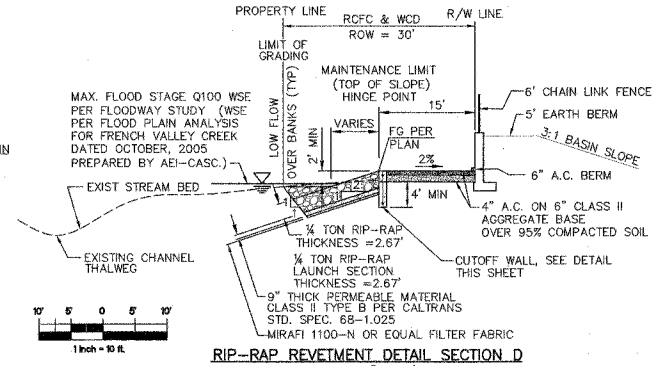
NOT TO SCALE



RIP-RAP REVETMENT DETAIL SECTION C

SCALE: 1" = 10'

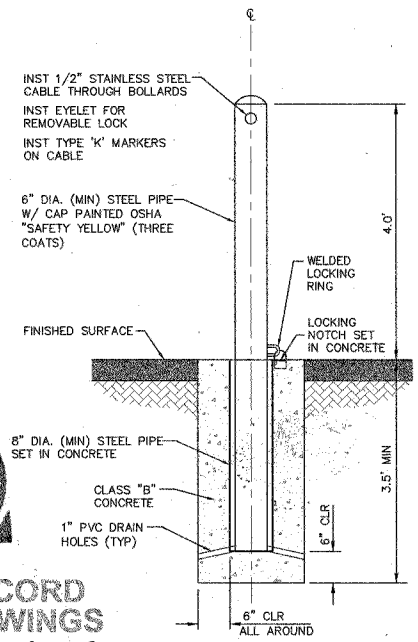
CHANNEL STATION 12+02.58



RIP-RAP REVETMENT DETAIL SECTION D

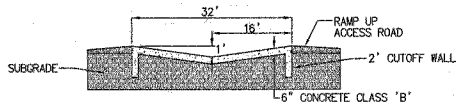
SCALE: 1" = 10'

HEC RAS RIVER STATIONS = 1800 THRU 2070
CHANNEL STATIONS = 10+00.00 THRU 11+86.76



REMOVABLE BOLLARD DETAIL

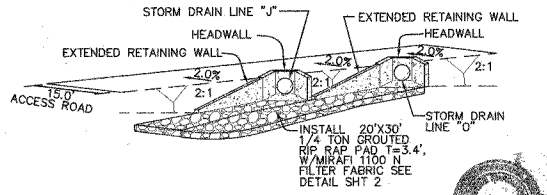
NOT TO SCALE



DIMENSIONS FOR (CH 333) DRAINAGE APRON FOR ACCESS ROAD

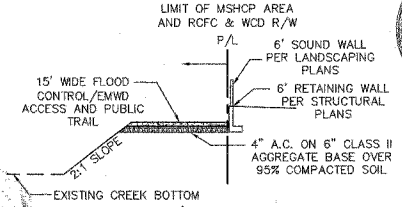
(N.T.S.)

CHANNEL STATION 12+02.58



DETAIL – DOUBLE MODIFIED HEADWALL

(N.T.S.)



RETAINING/SOUND WALL DETAIL

SCALE: 1" = 10'

(UNDER SEPARATE PERMIT)

RECORD DRAWINGS

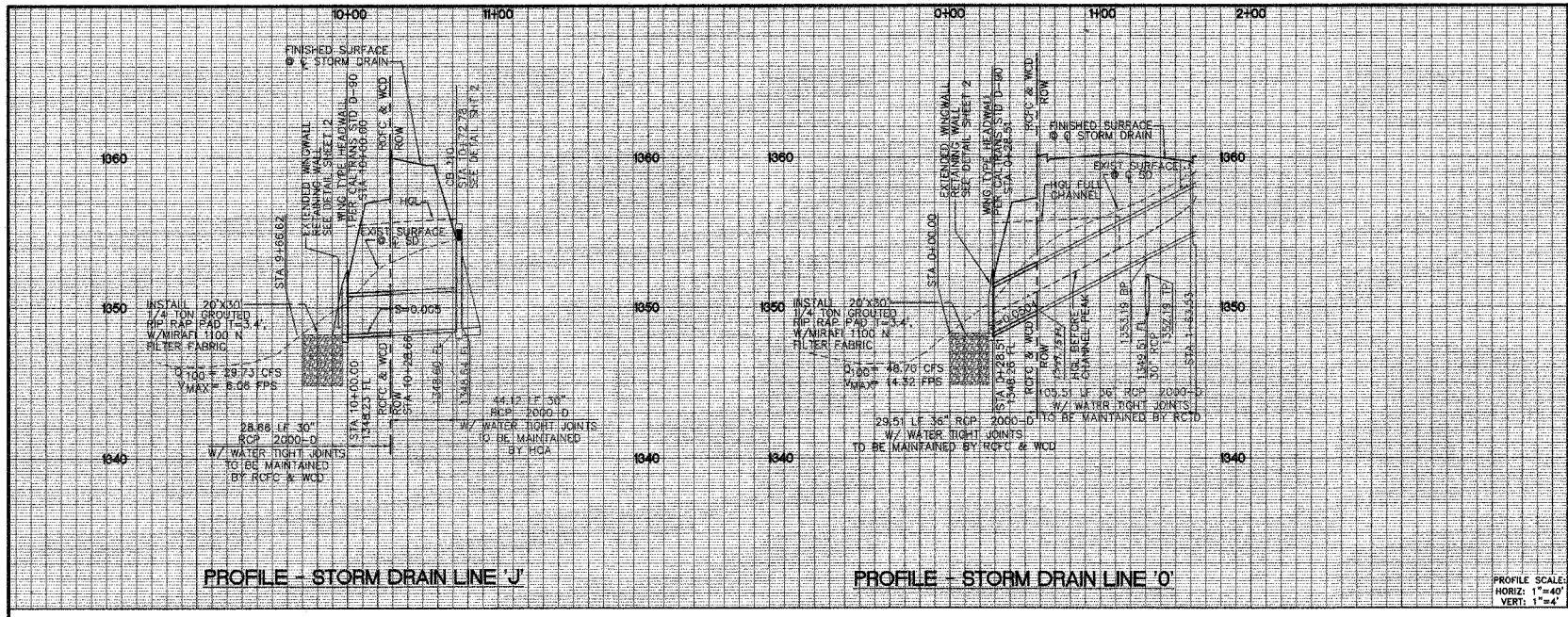
APPROVED BY: [signature]

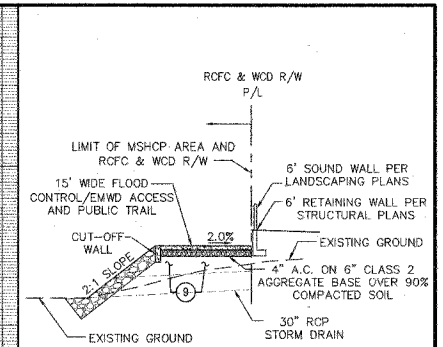
DATE: 10/24/17

IP NO. 050117

BENCHMARK DATUM AND ELEVATION	REVISIONS	ENGINEER		RCFC/WCD		APPROVED BY:		RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT		BELLASOL – TRACT NO. 32049	PROJECT NO.
BM 1419 NGS PID DX 1516, NGVD 29, ELEVATION 1419.95	A SHEET TOTAL CHANGED FROM 5 TO 12					Stantec Consulting, Inc. 277 Rancheros Drive Suite 300 San Marcos, CA 92069 Tel. (760) 891-3200 Fax. (760) 891-3201 www.stantec.com		RECOMMENDED FOR APPROVAL BY:	APPROVED BY:	WARM SPRINGS VALLEY	7-0-00205
BENCHMARK DESCRIPTION 4" BRASS USGS SURVEY STANDARD CAP STAMPED 1419 SEA AND SET ON TOP OF A 4" IRON PIPE						DANNY MARGUARDT, REG. NO. 60051	DATE: 7-25-06	DATE: 3/13/07	DATE: 3-14-2007	FRENCH VALLEY CHANNEL STAGE 5	DRAWING NO. 7-485
	REF. DESCRIPTION	APPR.	DATE	APPR.	DATE						SHEET NO. 4/12 2 OF 5

SUPPLEMENTAL PROJECT INFORMATION, AS-BUILT PLANS RCFC&WCD 7-0485, Page 2 of 12

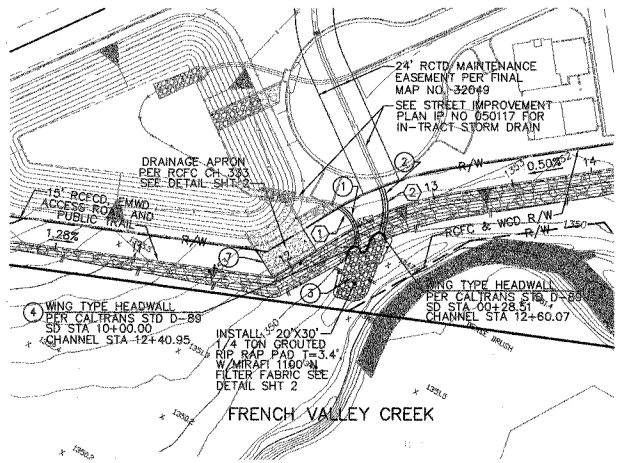




TYPICAL SECTION
1/4 TON RIPRAP SLOPE PROTECTION
SCALE: 1" = 10'
(SEE SHEET 2 FOR A MORE DETAILED SECTION)
STATION 12+50.00

HEADWALL AND WINGWALL TABLE	
LINE "J"	OUT
CALLOUT	VALUE
H	5.5'
L	3.35'
W	3.87'
ELEV. "A"	1348.02

HEADWALL AND WINGWALL TABLE	
LINE "O"	OUT
CALLOUT	VALUE
H	5.5'
L	4.13'
W	4.50'
ELEV. "A"	1348.00



PLAN - STORM DRAIN LINES 'O' AND 'J'

N

40' 20' 0 20' 40'
1 inch = 40 ft.

STORM DRAIN DATA TABLE				
NO.	BEARING/DELTA	RADIUS	LENGTH	REMARKS
1	Δ=72°58'35"	22.20'	28.66'	30" RCP
2	Δ=42°16'00"	40.00'	29.51'	36" RCP

CONSTRUCTION NOTES

1. CONSTRUCT 30" RCP (SEE PROFILE FOR D-LOAD)
2. CONSTRUCT 36" RCP (SEE PROFILE FOR D-LOAD)
3. INSTALL 20' X 30' 1/4 TON GROUTED RIP RAP PAD T=3.4' W/ MARAFI 1100 N FILTER FABRIC SEE DETAIL SHEET 2
4. CONSTRUCT WING HEADWALL PER CALTRANS STD D-89
7. CONSTRUCT ACCESS ROAD DRAINAGE APRON PER RCFC & WCD STD DWG NO CH 333
9. COMPACTED FILL 90% RELATIVE DENSITY

RECORD DRAWINGS
APPROVED BY:
DATE: 10/24/17

IP NO. 050117

BENCHMARK DATUM AND ELEVATION
BM 1419 NGS PID DX 1516, NGVD 29, ELEVATION 1419.95

BENCHMARK DESCRIPTION
4" BRASS USGS SURVEY STANDARD CAP STAMPED 1419 SEA AND SET ON TOP OF A 4" IRON PIPE

REF.	REVISIONS / DESCRIPTION	ENGINEER APPR.	ENGINEER DATE	RCFC/WCD APPR.	RCFC/WCD DATE
1	SHEET TITLE CHANGED FROM 5 TO 12				

APPROVED BY: DAN LEE, RCE NO. 35398 — DATE: 8-14-06

Stantec Consulting, Inc.
27 Ranchero Drive Suite 300
San Marcos, CA 92069
Tel. (760) 891-3200
Fax. (760) 891-3201
www.stantec.com

REGISTERED PROFESSIONAL ENGINEER DANIEL A. LEE No. 38396 Exp. 3/31/07 CIVIL STATE OF CALIFORNIA

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
RECOMMENDED FOR APPROVAL BY: — DATE: 3/12/07
APPROVED BY: — DATE: 3-14-2007

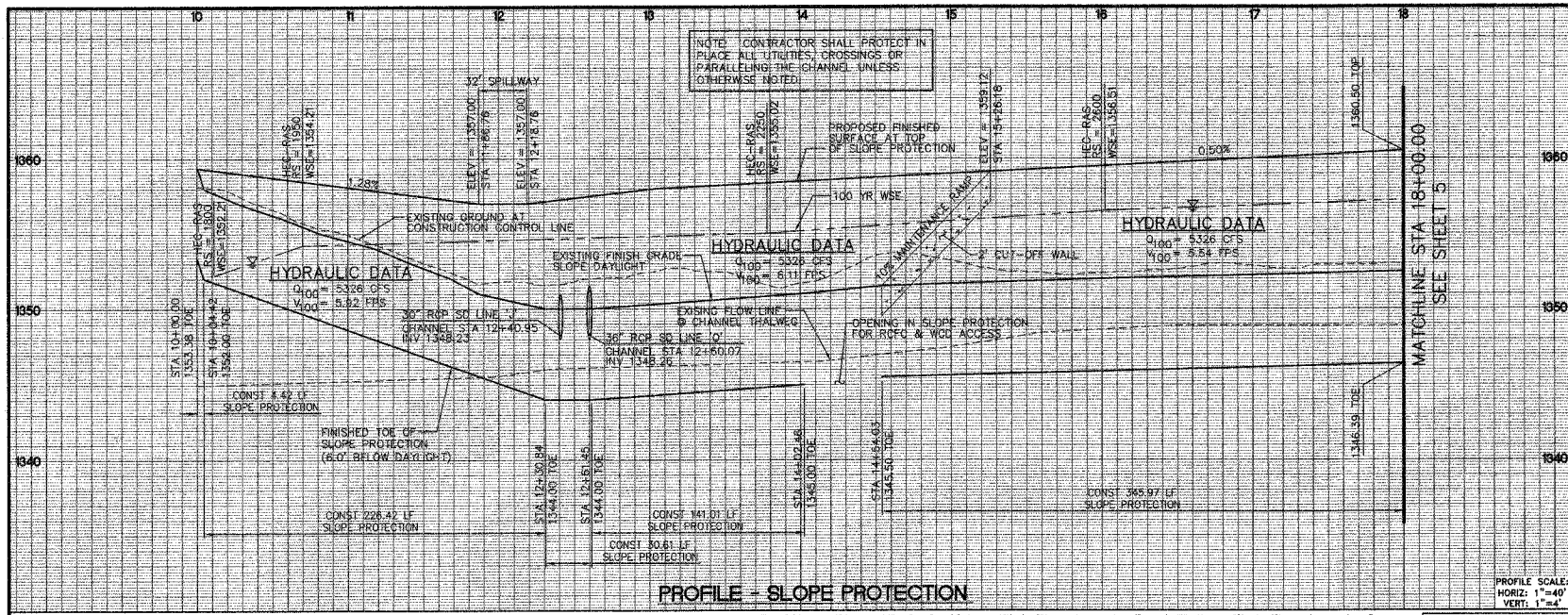
REGISTERED PROFESSIONAL ENGINEER DALEA A. OTHMAN No. 33950 Exp. 06-30-08 CIVIL STATE OF CALIFORNIA

COUNTY OF RIVERSIDE
TRANSPORTATION DEPARTMENT
APPROVED BY: — DATE: 8/16/06
KHALED A. OTHMAN — RECOMMENDED BY — DATE: 12 AUG 06

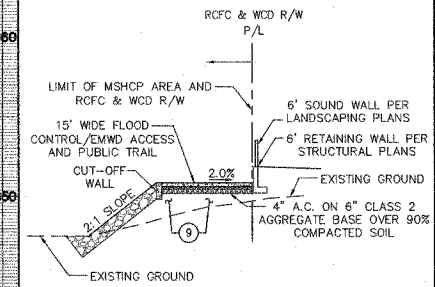
BELLASOL - TRACT NO. 32049
WARM SPRINGS VALLEY
FRENCH VALLEY CHANNEL STAGE 5
LINE 'J' STORM DRAIN
LINE 'O' STORM DRAIN

PROJECT NO. 7-0-00205
DRAWING NO. 7-485
SHEET NO. 12 OF 15

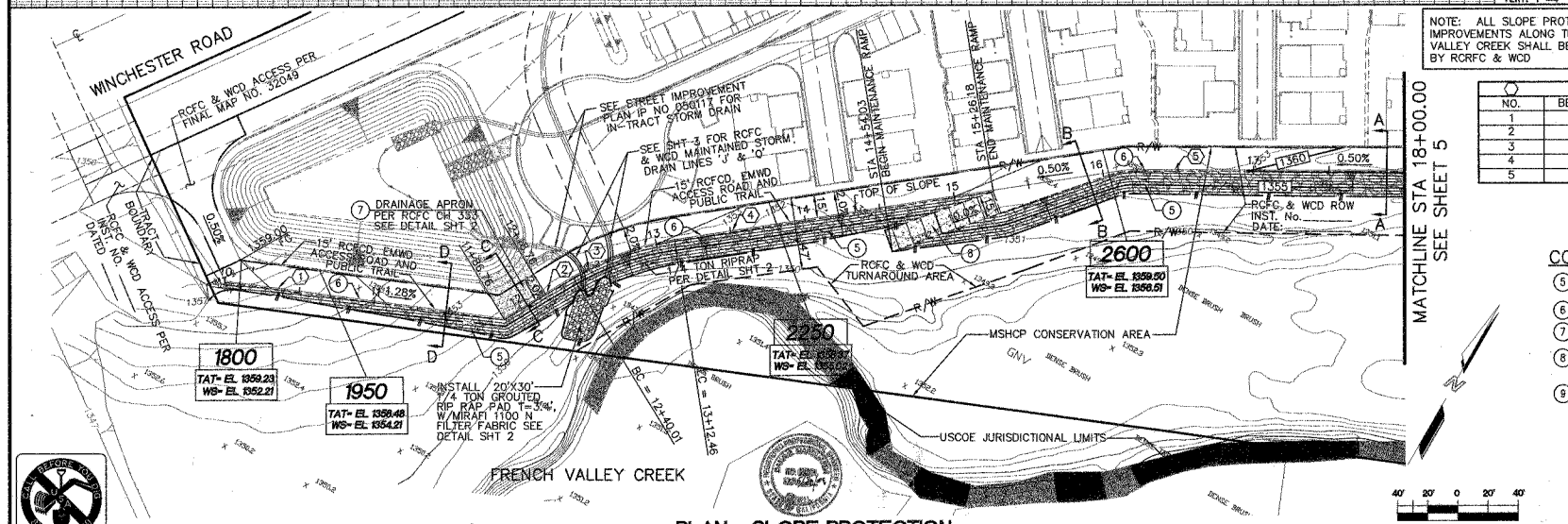
SUPPLEMENTAL PROJECT INFORMATION, AS-BUILT PLANS RCFC&WCD 7-0485, Page 3 of 12



PROFILE - SLOPE PROTECTION



TYPICAL SECTION
1/4 TON RIPRAP SLOPE PROTECTION
SCALE: 1" = 10'
(SEE SHEET 2 FOR A MORE DETAILED SECTION)
STATION 14+00.00



NOTE: ALL SLOPE PROTECTION IMPROVEMENTS ALONG THE FRENCH VALLEY CREEK SHALL BE MAINTAINED BY RCRFC & WCD

STORM DRAIN DATA TABLE

NO.	BEARING/DELTA	RADIUS	LENGTH	TANGENT
1	N67°50'25"E	—	186.76'	—
2	N28°51'17"E	—	53.25'	—
3	Δ=22°26'17"	185.00'	72.45'	36.69'
4	N51°17'34"E	—	304.91'	—
5	N60°15'36"E	—	182.63'	—

CONSTRUCTION NOTES

5. CONSTRUCT ROCK SLOPE PROTECTION 1/4 TON CLASS SEE DETAIL SHEET 2
6. CONSTRUCT CUTOFF WALL PER DETAIL SHEET 2
7. CONSTRUCT ACCESS ROAD DRAINAGE APRON PER RCFC & WCD STD DWG NO CH 333
8. CONSTRUCT 6" CONCRETE MAINTENANCE RAMP PER PLAN AND RCFC & WCD STD DWG NO CH 330 PROVIDE 2' CUT-OFF WALL AROUND
9. COMPACTED FILL 90% RELATIVE DENSITY

RECORD DRAWINGS
APPROVED BY:
DATE: 10/24/17

PLAN - SLOPE PROTECTION

IP NO. 050117

BENCHMARK DATUM AND ELEVATION
BM 1419 NGS PID DX 1516, NGVD 29, ELEVATION 1419.95

BENCHMARK DESCRIPTION
4" BRASS USGS SURVEY STANDARD CAP STAMPED 1419 SEA AND SET ON TOP OF A 4" IRON PIPE

REF.	DESCRIPTION	APPR.	DATE	APPR.	DATE
1	SHEET TOTAL CHANGED FROM 5 TO 12			CHK	10/24/17

ENGINEER | RCFC/WCD

APPROVED BY: DAVID MARGUARDT, RCE NO. 60051 DATE: 7-25-06

Stantec Consulting, Inc.
277 Rancheros Drive Suite 300
San Marcos, CA 92069
Tel. (760) 891-3200
Fax. (760) 891-3201
www.stantec.com

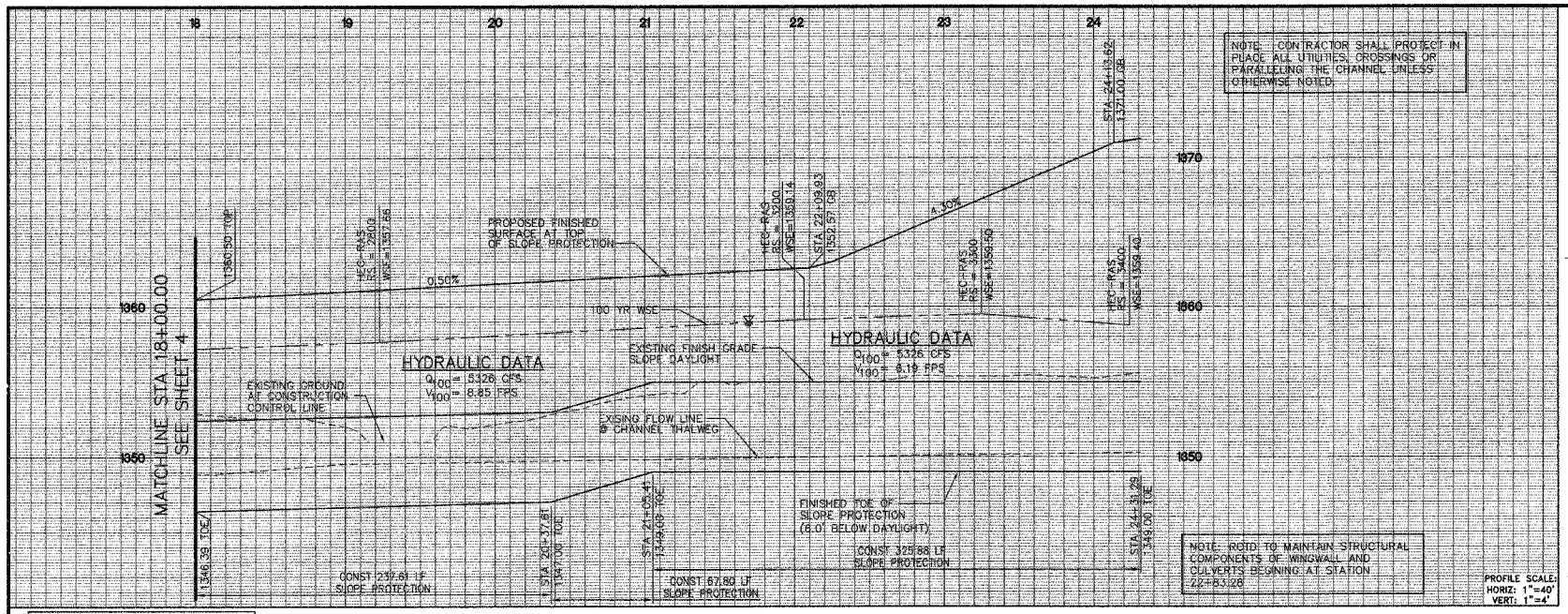
REGISTERED PROFESSIONAL ENGINEER DAVID R. MARGUARDT No. 60051 Exp. 6/30/08 CIVIL STATE OF CALIFORNIA

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
RECOMMENDED FOR APPROVAL BY: DATE: 3/12/07
APPROVED BY: DATE: 3-13-2007

BELLASOL - TRACT NO. 32049
WARM SPRINGS VALLEY
FRENCH VALLEY CHANNEL
STAGE 2
STA 10+00.00 - 18+00.00

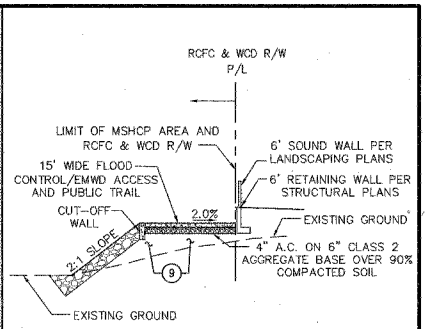
PROJECT NO. 7-0-00205
DRAWING NO. 7-485
SHEET NO. 4/12
4 OF 5

SUPPLEMENTAL PROJECT INFORMATION, AS-BUILT PLANS RCFC&WCD 7-0485, Page 4 of 12



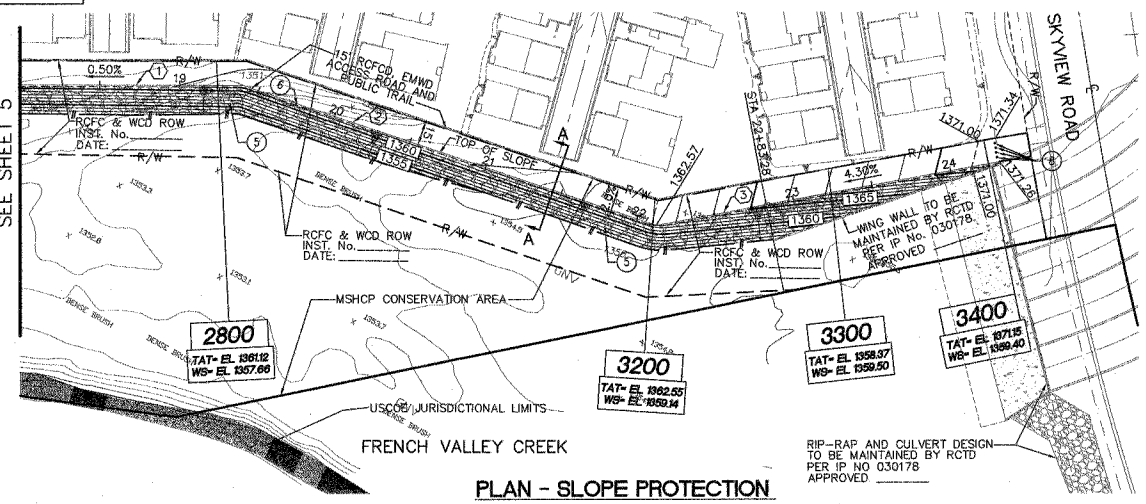
PROFILE - SLOPE PROTECTION

NOTE: ALL SLOPE PROTECTION IMPROVEMENTS ALONG THE FRENCH VALLEY CREEK SHALL BE MAINTAINED BY RCRFC & WCD



TYPICAL SECTION
1/4 TON RIPRAP SLOPE PROTECTION
SCALE: 1" = 10'
(SEE SHEET 2 FOR A MORE DETAILED SECTION)
STATION 21+00.00

STORM DRAIN DATA TABLE				
NO.	BEARING/DELTA	RADIUS	LENGTH	TANGENT
1	N60°15'36"E	—	139.62'	—
2	N78°54'30"E	—	273.08'	—
3	N49°28'03"E	—	218.60'	—



PLAN - SLOPE PROTECTION

CONSTRUCTION NOTES

(5) CONSTRUCT ROCK SLOPE PROTECTION 1/4 TON CLASS SEE DETAIL SHEET 2

(6) CONSTRUCT CUTOFF WALL PER DETAIL SHEET 2

(8) INST. 4' HIGH REMOVABLE BOLLARDS WITH WELDED LOCKING RING ON THE BOTTOM & 1/2 IN. CABLES CONNECTED TO BOLLARDS TO PREVENT TWO-WHEEL VEHICLES FROM PASSING THROUGH, DETAIL ON SHT 2 (TOTAL 4)

(9) COMPACTED FILL 90% RELATIVE DENSITY

RECORD DRAWINGS
APPROVED BY:
DATE: 10/24/17

IP NO. 050117

BENCHMARK DATUM AND ELEVATION
BM 1419 NGS PID DX 1516, NGVD 29, ELEVATION 1419.95

BENCHMARK DESCRIPTION
4" BRASS USGS SURVEY STANDARD CAP STAMPED 1419 SEA AND SET ON TOP OF A 4" IRON PIPE

REF.	REVISIONS / DESCRIPTION	ENGINEER APPR.	ENGINEER DATE	RCFC/WCD APPR.	RCFC/WCD DATE
1	SHEET TITLE CHANGED FROM 5 TO 12.				7/26/06

APPROVED BY: DAN LEE, RCE NO. 38398 — 8-14-06

Stantec Consulting, Inc.
27 Roseberee Drive Suite 300
San Marcos, CA 92069
Tel. (760) 891-3200
Fax. (760) 891-3201
www.stantec.com

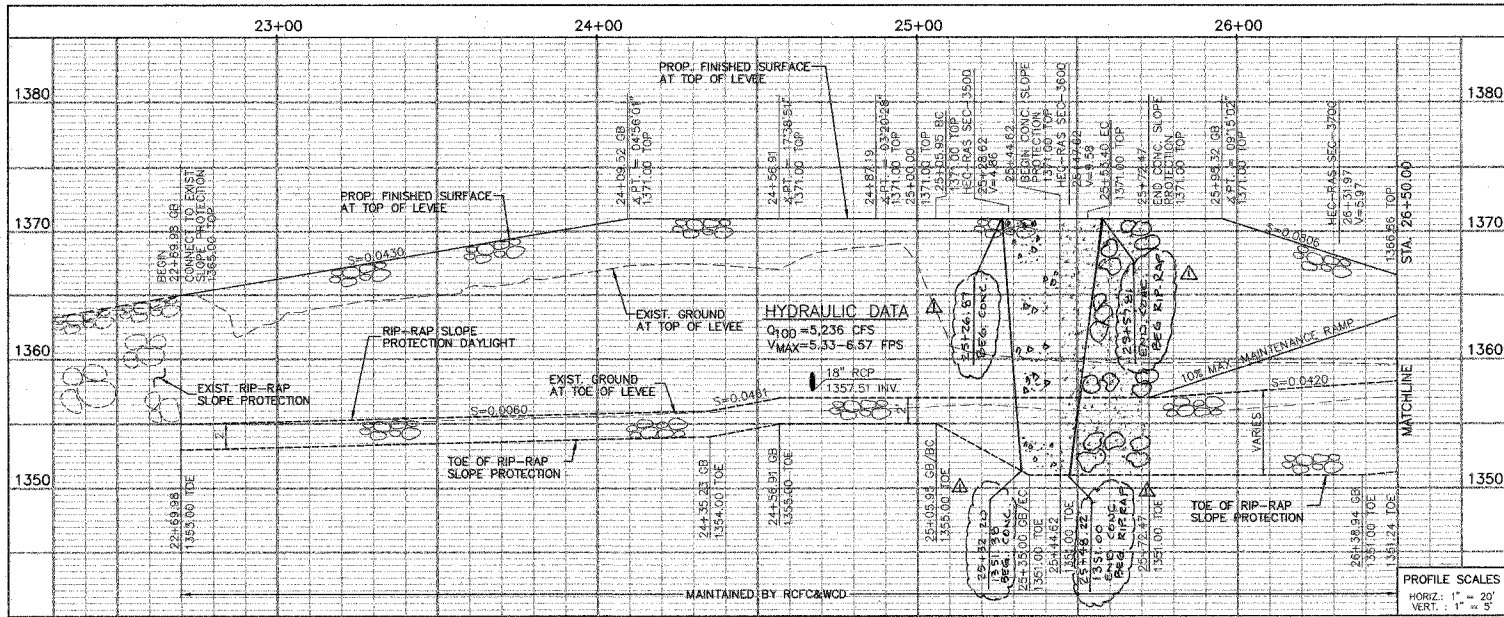
RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
RECOMMENDED FOR APPROVAL BY: DATE 3/12/07
APPROVED BY: DATE 3-14-2007

COUNTY OF RIVERSIDE TRANSPORTATION DEPARTMENT
APPROVED BY: DATE 8/16/06
RECOMMENDED BY: DATE 16 aug 06

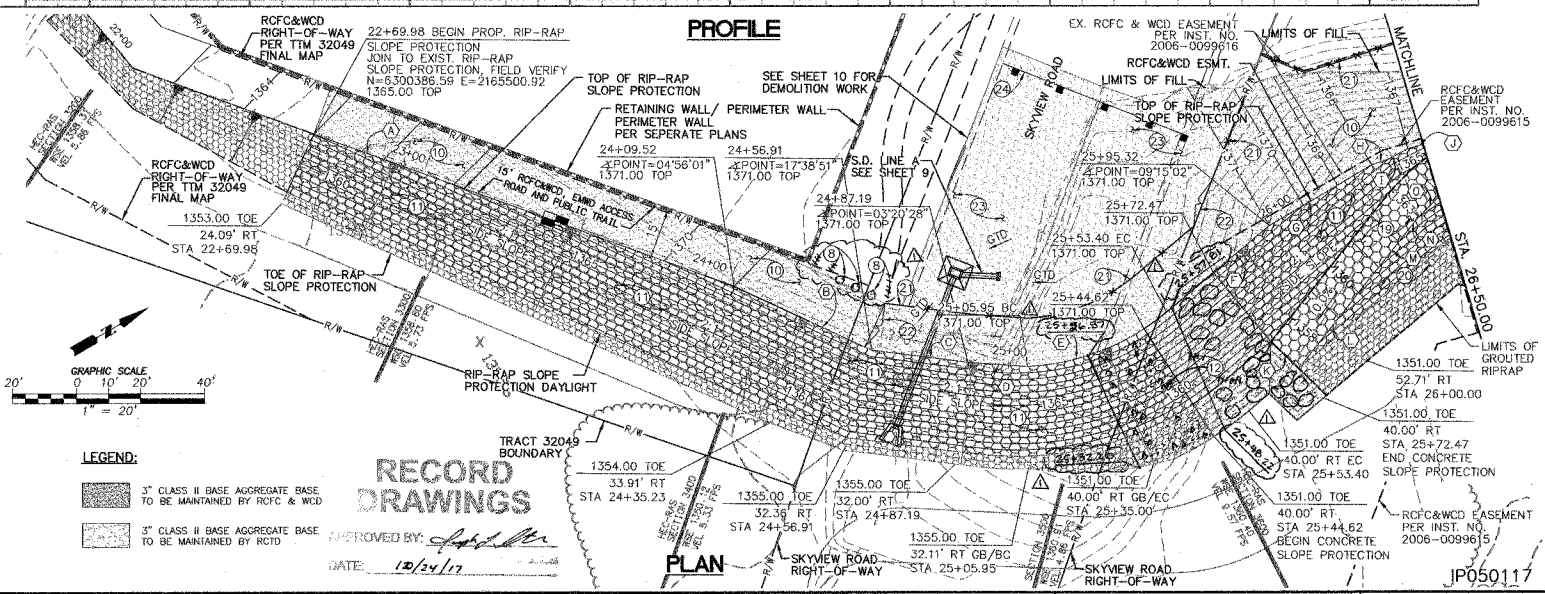
BELLASOL - TRACT NO. 32049
WARM SPRINGS VALLEY
FRENCH VALLEY CHANNEL
STAGE 5
STA 18+00.00 - 24+31.29

PROJECT NO. 7-0-00205
DRAWING NO. 7-485
SHEET NO. 12 OF 5

SUPPLEMENTAL PROJECT INFORMATION, AS-BUILT PLANS RCFC&WCD 7-0485, Page 5 of 12



PROFILE



PLAN

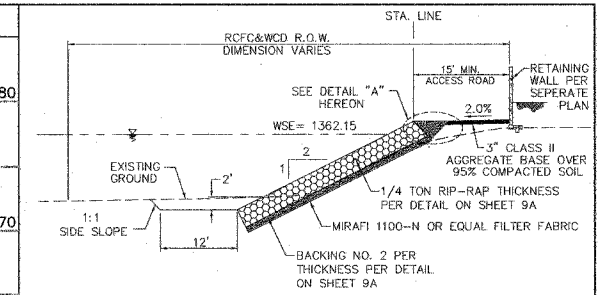
LEGEND:

- 3" CLASS II BASE AGGREGATE BASE TO BE MAINTAINED BY RCFC & WCD
- 3" CLASS II BASE AGGREGATE BASE TO BE MAINTAINED BY RCTD

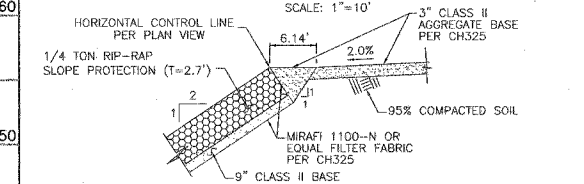
RECORD DRAWINGS

APPROVED BY:

DATE: 12/24/17



STA. 23+50.00
TYPICAL SLOPE PROTECTION DETAIL
SCALE: 1"=10'



DETAIL "A"
N.T.S.

LINE/CURVE DATA

	DELTA/BEARING	RADIUS	LEN./DIST.	TANGENT
A	N49°58'18"E	–	139.54'	–
B	N54°54'18"E	–	47.39'	–
C	N37°15'27"E	–	30.28'	–
D	N33°54'59"E	–	18.77'	–
E	37°14'32"	73.00'	47.45'	24.60'
F	N09°55'38"W	–	41.91'	–
G	N00°40'37"W	–	37.20'	–
H	N11°32'08"E	–	5.38'	–
I	N02°14'56"E	–	6.99'	–
J	N13°31'06"E	–	5.11'	–
K	N74°02'20"E	–	12.00'	–
L	N21°23'54"W	–	40.19'	–
M	N21°24'02"W	–	10.04'	–
N	N21°24'09"W	–	10.20'	–
O	N15°26'19"W	–	10.36'	–

CONSTRUCTION NOTES

(8) INST. 4' HIGH REMOVABLE BOLLARDS WITH WELDED LOCKING RING ON THE BOTTOM & 1/2 IN. CABLES CONNECTED TO BOLLARDS TO PREVENT TWO-WHEEL VEHICLES FROM PASSING THROUGH, DETAIL ON SHT 2 (TOTAL 6).

(10) CONSTRUCT 3" CLASS II AGGREGATE BASE OVER 95% COMPACTED SOIL.

(11) CONSTRUCT 1/4 TON RIP-RAP METHOD B PLACEMENT PER CALTRANS STD. SPEC. 72-2. (T=SHOWN PER SECTION) AND CH325.

(12) CONSTRUCT CONCRETE SLOPE PROTECTION PER DETAIL "B" ON SHEET 10.

(19) CONSTRUCT 1/4 TON GROUTED RIP-RAP MAINTENANCE RAMP PER CH335 MODIFIED TO GROUT FULL DEPTH. SUFFICIENT 12" OF CONCRETE BACKFILL SHALL BE USED TO PROVIDE LEVEL SURFACE WITH RIP-RAP. PROVIDE HEAVY BROOM FINISH SURFACE PERPENDICULAR TO DRIVING DIRECTION.

(20) CONSTRUCT 1/4 TON GROUTED RIP-RAP PER CALTRANS STD. SPEC. NO. 72-5, METHOD A.

(21) CONSTRUCT CHAIN LINK FENCE PER RCFC&WCD STD. DWG. NO. M801.

(22) CONSTRUCT 14' DOUBLE DRIVE GATE PER RCFC&WCD STD. DWG. NO. M801.

(23) CONSTRUCT 3" CLASS II AGGREGATE BASE OVER 95% COMPACTED SOIL.

(24) CONSTRUCT BARRICADE PER RCTD STANDARD NO. 810.

MDC

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SEAL—ENGINEER
REGISTERED PROFESSIONAL ENGINEER JOSEPH L. CASTANEDA NO. 59835 EXP. 12/31/12 CIVIL STATE OF CALIFORNIA

JLC Engineering & Consulting, Inc.
36263 CALLE DE LOBO MURRIETA, CA 92562
PH 951.304.9552 FAX 951.304.3568
JOSEPH L. CASTANEDA R.C.E. 59835 — DATE 11/8/12

BENCHMARK:
RECOVERY NOTE BY METRO WATER DIST. SO. CAL. 1992 2.6 MI. (4.2 KM) NORTHWEST OF LAKE SKINNER RESERVOIR, FROM THE INT. OF WASHINGTON ST. AND BRUMFIELD ST./FIELDS DR., 650 FT. (198.1 M) WEST ALONG BRUMFIELD ST./FIELDS DR. 13 FT. (4.0 M) NORTH OF THE C/L OF BRUMFIELD ST./FIELDS DR., 103 FT. (31.4 M) NORTHWEST OF POWER POLE NO. 216211 2 FT. (0.6 M) EAST OF CARSONITE SURVEY MARKER, 2.5 FT. (0.8 M) EAST OF THE CORNER OF A WOOD FENCE POST WITH BARBED WIRE. A 4 INCH BRASS USGS STD. CAP, STAMPED 1412 16 A AND SET ON TOP OF A 4 INCH IRON PIPE 0.5 FT. (15.2 CM) BELOW SURFACE.
ELEVATION=1419.951 FT. DATE 3-1-02

REVISIONS			
1	RELOCATED CONC. SLOPE PROTECTION, REVISED NEW LIMITS OF RIP-RAP, UPDATE LOCATIONS OF BOUNDARY & TOTAL	MJC	3/15/12
REF.	DESCRIPTION	APPR.	DATE

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
RECOMMENDED FOR APPROVAL BY: — DATE: 11/20/2012
APPROVED BY: Mark A. Wills — DATE: 11/20/2012

COUNTY OF RIVERSIDE TRANSPORTATION DEPARTMENT
REVIEWED BY: Alan D. French — ALAN D. FRENCH, P.E. — DATE 11-8-12
RECOMMENDED — DATE

WARM SPRINGS VALLEY
FRENCH VALLEY CHANNEL
TRACT 32049
SLOPE PROTECTION
22+69.98 TO 26+50.00

PROJECT NO. 7-0-00205
DRAWING NO. 7-485
SHEET 6 OF 12

942-GG

Drawing Name: G:\100.01.08\Tentative_Tract_Maps\Engineering\Slope_Protection_Plan\Tract 32049\Sheet_06A.dwg
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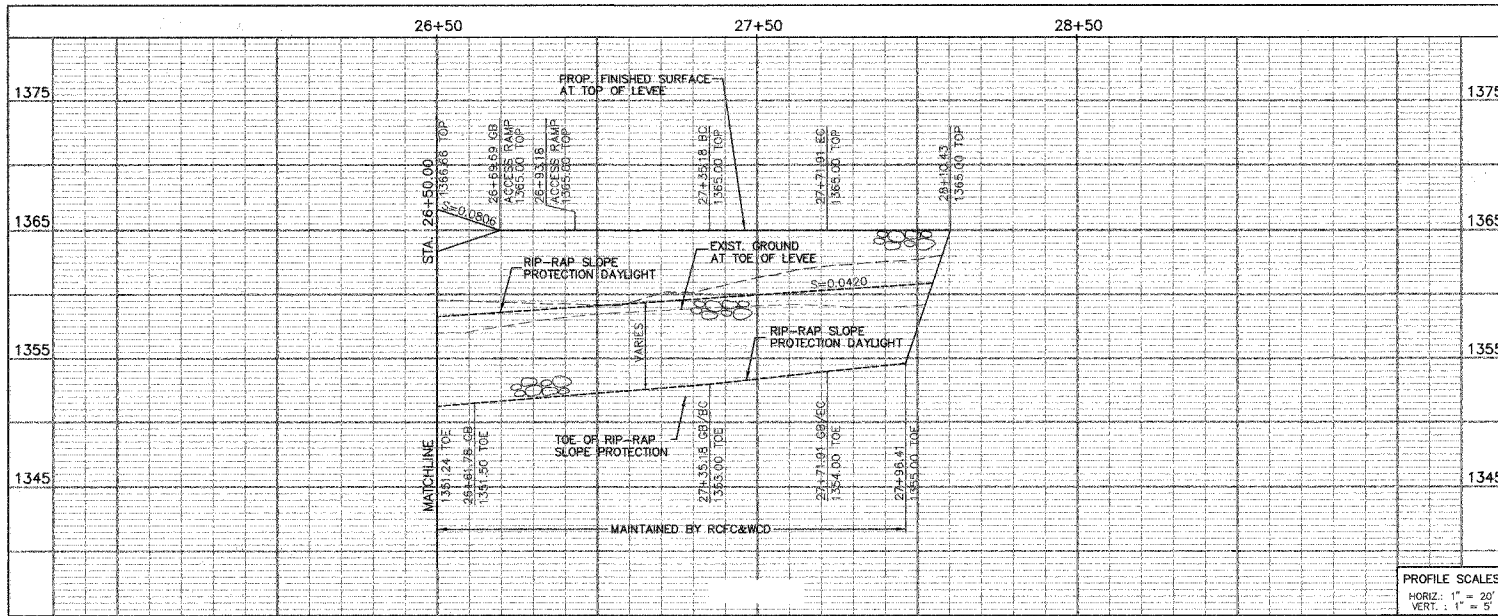
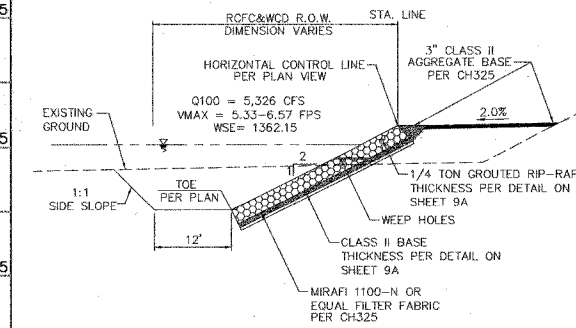
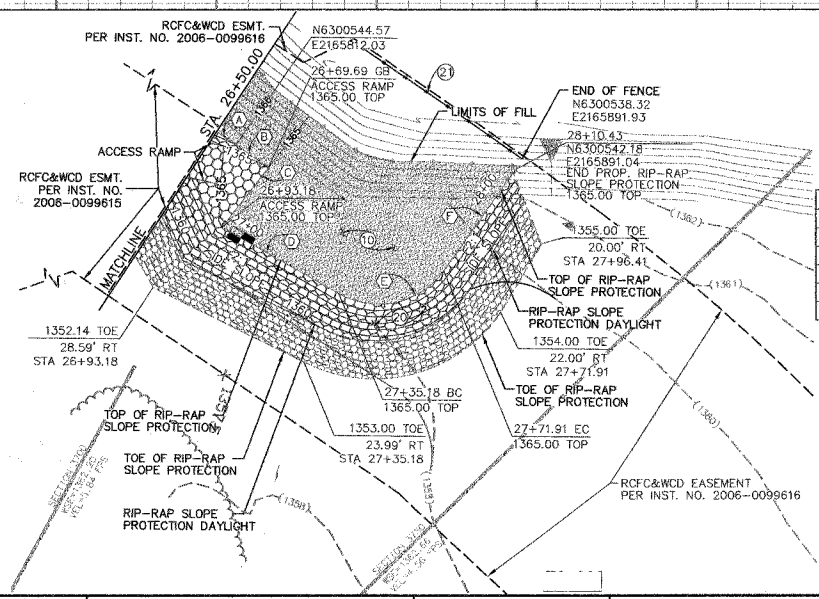


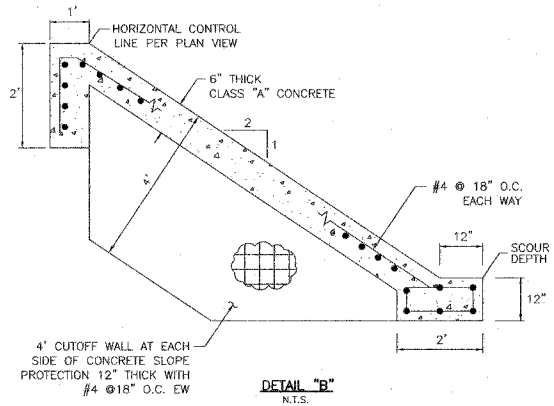


STA. 27+00.00
TYPICAL SLOPE PROTECTION DETAIL
SCALE: 1"=10'



LINE/CURVE DATA

	DELTA/BEARING	RADIUS	LEN./DIST.	TANGENT
A	N13°31'06"E	–	7.29'	–
B	N15°18'06"E	–	12.40'	–
C	N71°43'09"W	–	23.49'	–
D	N09°39'17"E	–	42.00'	–
E	84°10'23"	25.00'	36.73'	22.58'
F	N74°31'06"W	–	38.52'	–



DETAIL "B"
N.T.S.

CONSTRUCTION NOTES

(10) CONSTRUCT 3" CLASS II AGGREGATE BASE OVER 95% COMPACTED SOIL.

(20) CONSTRUCT 1/4 TON GROUTED RIP-RAP PER CALTRANS STD. SPEC. 72-3, METHOD B. CONTRACTOR SHALL PROVIDE 2" WEEP HOLES @ 20' INTERVALS.

(21) CONSTRUCT CHAIN LINK FENCE PER RCFC&WCD STD. DWG. NO. M801.

RECORD DRAWINGS
APPROVED BY:
DATE: 10/24/17

GRAPHIC SCALE
20' 0 10' 20' 40'
1" = 20'

IP050117

MDC

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SEAL-ENGINEER
REGISTERED PROFESSIONAL ENGINEER JOSEPH L. CASTANEDA NO. 59835 EXP. 12/31/12 CIVIL STATE OF CALIFORNIA

JLC Engineering & Consulting, Inc.
36263 CALLE DE LOBO MURRIETA, CA 92562
PH. 951.304.5552 FAX 951.304.3568
JOSEPH L. CASTANEDA R.C.E. 59835 — DATE 11/8/12

BENCHMARK:
RECOVERY NOTE BY METRO WATER DIST. SO. CAL. 1992 2.6 MI. (4.2 KM) NORTHWEST OF LAKE SKINNER RESERVOIR, FROM THE INT. OF WASHINGTON ST. AND BRUMFIELD ST./FIELDS DR., 850 FT. (259.1 M) WEST ALONG BRUMFIELD ST./FIELDS DR. 13 FT. (4.0 M) NORTH OF THE C/L OF BRUMFIELD ST./FIELDS DR., 103 FT. (31.4 M) NORTHWEST OF POWER POLE NO. 216211 2 FT. (0.6 M) EAST OF CARSONITE SURVEY MARKER. 2.9 FT. (0.9 M) EAST OF THE CORNER OF A WOOD FENCE POST WITH BARBED WIRE. A 4 INCH BRASS USGS STD. CAP. STAMPED 1419 SEA AND SET ON TOP OF A 4 INCH IRON PIPE 0.5 FT. (15.2 CM) BELOW SURFACE.
ELEVATION=1419.851 FT. DATE 3-1-02

REVISIONS			
REF.	DESCRIPTION	APPR.	DATE

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
RECOMMENDED FOR APPROVAL BY: DATE: 11/20/2012
APPROVED BY: Mark A Wills DATE: 11/20/2012

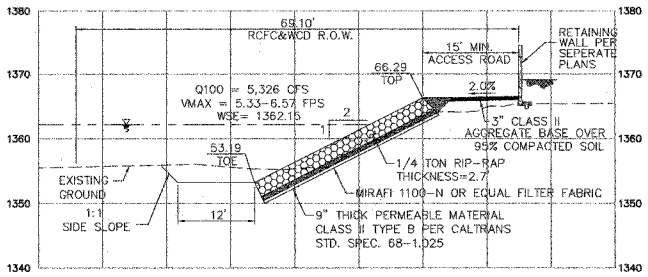
COUNTY OF RIVERSIDE TRANSPORTATION DEPARTMENT
REVIEWED BY: DATE
ALAN D. FRENCH, P.E. DATE
RECOMMENDED DATE

WARM SPRINGS VALLEY
FRENCH VALLEY CHANNEL
TRACT 32049
SLOPE PROTECTION
26+50.00 TO 28+96.68

PROJECT NO. 7-0-00205
DRAWING NO. 7-485
SHEET 7 OF 12
942-GG

Drawing Name: G:\JCE-01-09\Tentative_Tract_Map\Engineering\Slope_Protection_Plan\Tract 32049\Sheet_07.dwg
Layout Updated: Nov 08, 2012 12:30pm by Jeff

SUPPLEMENTAL PROJECT INFORMATION, AS-BUILT PLANS RCFC&WCD 7-0485, Page 7 of 12



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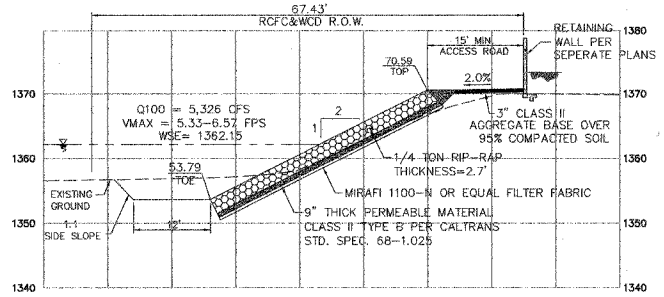

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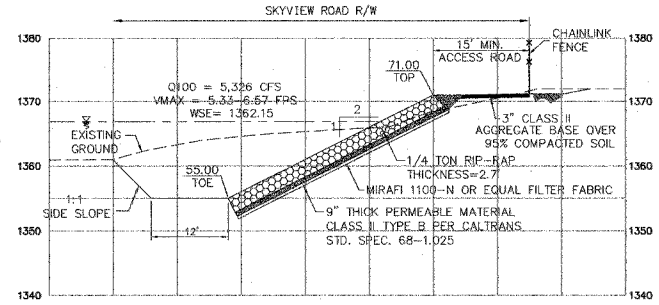

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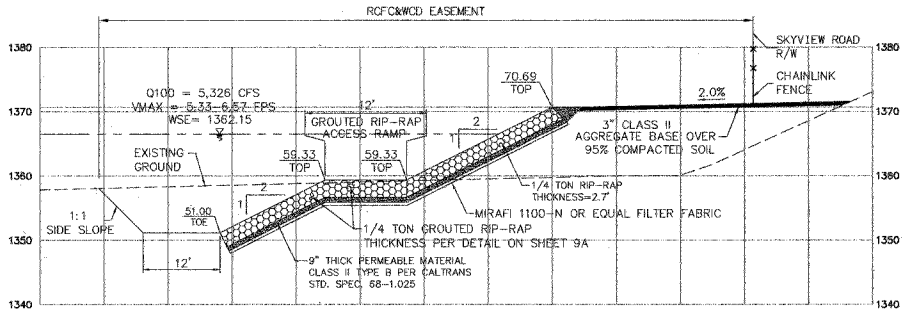

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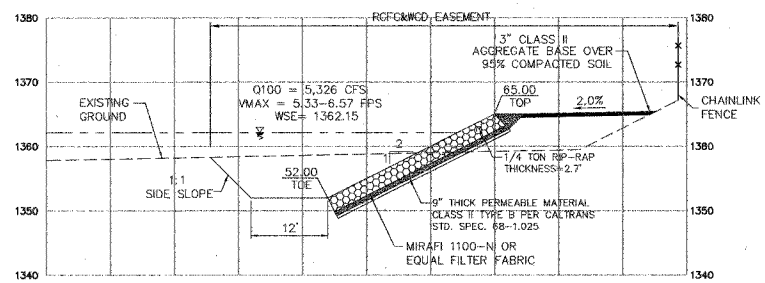

SECTION @ 27+00.00
SCALE: 1"=10'

RECORD DRAWINGS
APPROVED BY: [signature]
DATE: 10/24/12

IP050117 MDC

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REGISTERED PROFESSIONAL ENGINEER JOSEPH L. CASTANEDA NO. 59835 EXP. 12/31/12 CIVIL STATE OF CALIFORNIA

JLC Engineering & Consulting, Inc.
36263 CALLE DE LOBO MURRIETA, CA 92562
PH. 951.304.9552 FAX 951.304.3568
JOSEPH L. CASTANEDA R.C.E. 59835 — DATE 11/9/12

BENCHMARK:
RECOVERY NOTE BY METRO WATER DIST. SO. CAL. 1992 2.6 MI. (4.2 KM) NORTHWEST OF LAKE SKINNER RESERVOIR, FROM THE INT. OF WASHINGTON ST. AND BRUMFIELD ST./FIELDS DR., 650 FT. (198.1 M) WEST ALONG BRUMFIELD ST./FIELDS DR. 13 FT. (4.0 M) NORTH OF THE C/L OF BRUMFIELD ST./FIELDS DR., 103 FT. (31.4 M) NORTHWEST OF POWER POLE NO. 216211 2 FT. (0.6 M) EAST OF CARSONITE SURVEY MARKER, 2.5 FT. (0.8 M) EAST OF THE CORNER OF A WOOD FENCE POST WITH BARBED WIRE. A 4 INCH BRASS USGS STD. CAP. STAMPED 1419 SEA AND SET ON TOP OF A 4 INCH IRON PIPE 0.5 FT. (15.2 CM) BELOW SURFACE.
ELEVATION=1418.851 FT. DATE 3-1-02

REVISIONS			
REF.	DESCRIPTION	APPR.	DATE

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
RECOMMENDED FOR APPROVAL BY: [signature] DATE: 11/20/2012
APPROVED BY: Mark H. Wills DATE: 11/20/2012

COUNTY OF RIVERSIDE TRANSPORTATION DEPARTMENT
REVIEWED BY: ALAN D. FRENCH, P.E. DATE
RECOMMENDED DATE

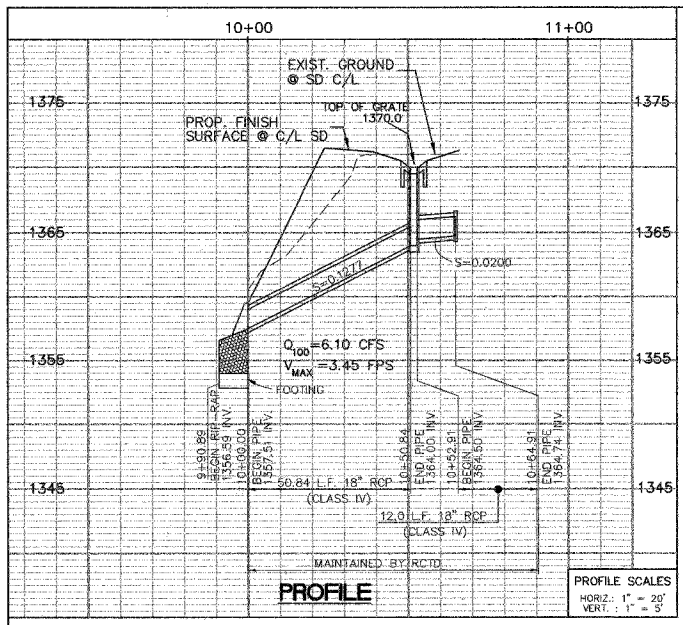
WARM SPRINGS VALLEY FRENCH VALLEY CHANNEL TRACT 32049
SLOPE PROTECTION CROSS SECTIONS

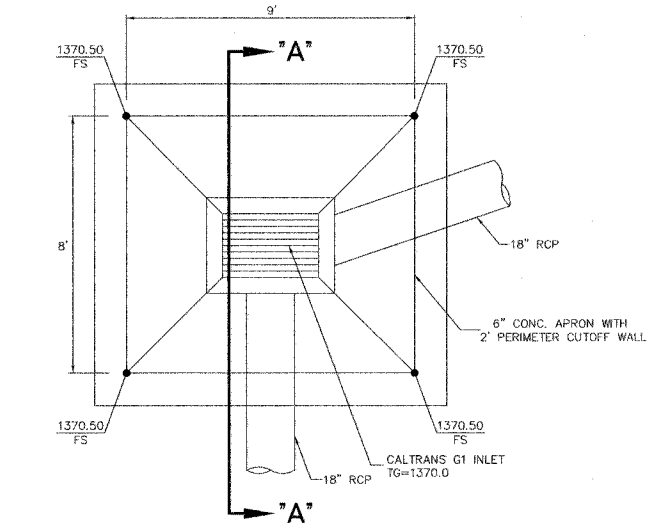
PROJECT NO. 7-0-00205
DRAWING NO. 7-485
SHEET 8 OF 12

942-GG

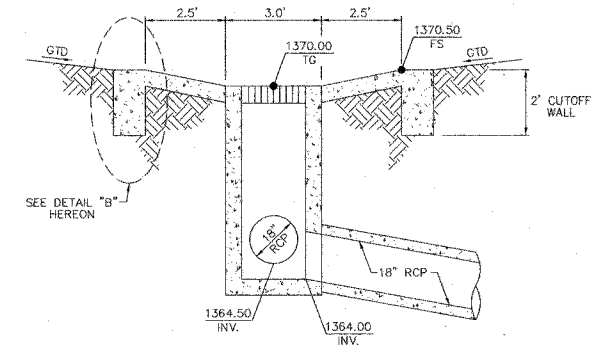
Drawing Name: G:\30.01.09\Tentative_Tract_Maps\Engineering\Slope_Protection_Plan\Tract 32049\Sheet_08.dwg
Last Opened: Nov 08, 2012 - 2:35pm by Joe

SUPPLEMENTAL PROJECT INFORMATION, AS-BUILT PLANS RCFC&WCD 7-0485, Page 8 of 12





DETAIL "A"
SCALE: 1"=2'



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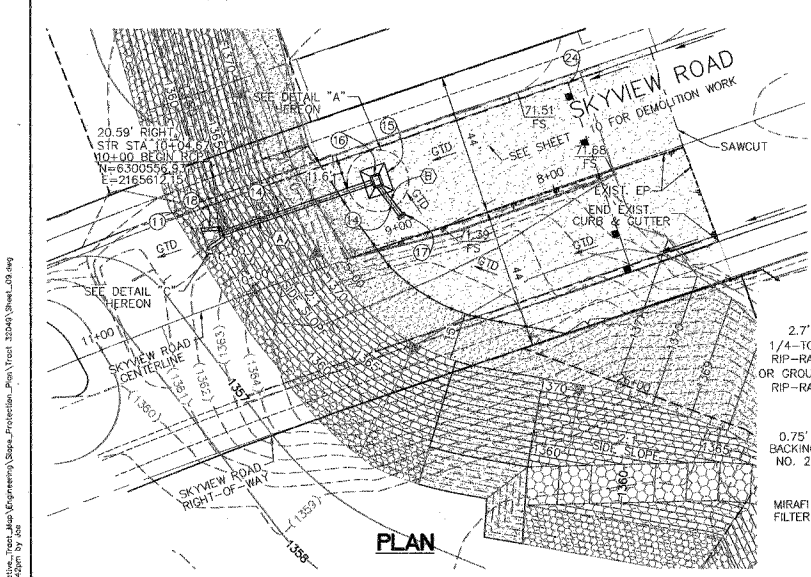
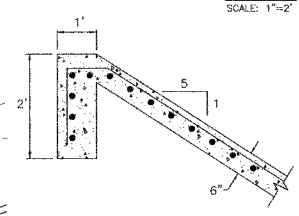
SCALE: 1"=2'





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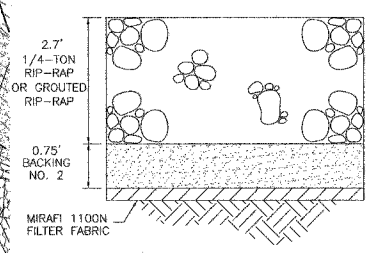
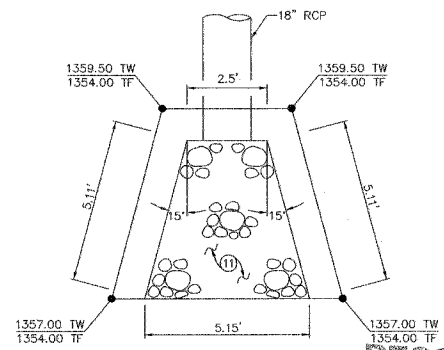


TYPICAL RIP-RAP DETAIL
N.T.S.



DETAIL "C"
SCALE: 1"=2'

CONSTRUCTION NOTES

(11) CONSTRUCT 1/4 TON RIP-RAP METHOD B PLACEMENT PER CALTRANS STD. SPEC 72-2 (T=SHOWN PER SECTION) AND CH325.

(14) CONSTRUCT 18" RCP (CLASS IV)

(15) CONSTRUCT 6" CONCRETE APRON WITH 2' PERIMETER CUTOFF WALL AND DETAIL "A" HEREON.

(16) CONSTRUCT G1 INLET PER CALTRANS STD. PLAN D73.

(17) CONSTRUCT CONCRETE BULKHEAD PER RCFC & WCD STD. DWG. NO. M816.

(18) CONSTRUCT PIPE WINGWALL PER CALTRANS STD. PLAN D90.

LINE/CURVE DATA

	DELTA/BEARING	RADIUS	LEN./DIST.	TANGENT
(A)	N38°39'26"W	–	50.84'	–
(B)	N32°35'38"E	–	12.00'	–

RECORD DRAWINGS
APPROVED BY: [signature]
DATE: 10/24/12

GRAPHIC SCALE
20' 0 10' 20' 40'
1" = 20'

IP050117

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SEAL–ENGINEER
REGISTERED PROFESSIONAL ENGINEER JOSEPH L. CASTANEDA NO. 59835 EXP. 12/31/12 CIVIL STATE OF CALIFORNIA

JLC Engineering & Consulting, Inc.
36263 CALLE DE LOBO MURRIETA, CA 92562
PH. 951.304.9352 FAX 951.304.3568
JOSEPH L. CASTANEDA R.C.E. 59835 — DATE 11/8/12

BENCHMARK:
RECOVERY NOTE BY METRO WATER DIST. SO. CAL. 1992 2.8 MI. (4.2 KM) NORTHWEST OF LAKE SKINNER RESERVOIR, FROM THE INT. OF WASHINGTON ST. AND BRUMFIELD ST./FIELDS DR., 850 FT. (259.1 M) WEST ALONG BRUMFIELD ST./FIELDS DR. 13 FT. (4.0 M) NORTH OF THE C/L OF BRUMFIELD ST./FIELDS DR., 103 FT. (31.4 M) NORTHWEST OF POWER POLE NO. 216271 2 FT. (0.6 M) EAST OF CARSONITE SURVEY MARKER. 2.5 FT. (0.8 M) EAST OF THE CORNER OF A WOOD FENCE POST WITH BARBED WIRE. A 4 INCH BRASS USGS STD. CAP. STAMPED 1479 SEA AND SET ON TOP OF A 4 INCH IRON PIPE 0.5 FT. (15.2 CM) BELOW SURFACE.
ELEVATION=1419.951 FT. DATE 3-1-02

REVISIONS			
REF.	DESCRIPTION	APPR.	DATE

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
RECOMMENDED FOR APPROVAL: DATE
APPROVED BY: DATE

COUNTY OF RIVERSIDE
TRANSPORTATION DEPARTMENT
REVIEWED BY: Alan French — ALAN D. FRENCH, P.E. — DATE 11-8-12
RECOMMENDED — DATE

WARM SPRINGS VALLEY
FRENCH VALLEY CHANNEL
TRACT 32049
LINE "A"
10+00.00 TO 10+56.91

PROJECT NO. 7-0-00205
DRAWING NO. 7-485
SHEET 9 OF 12

942-GG

Drawing Name: G:\150 01 093\Tentative_Tract_Map\Engineering\Slope_Protection_Plan\Tract 32049\Sheet_09.dwg
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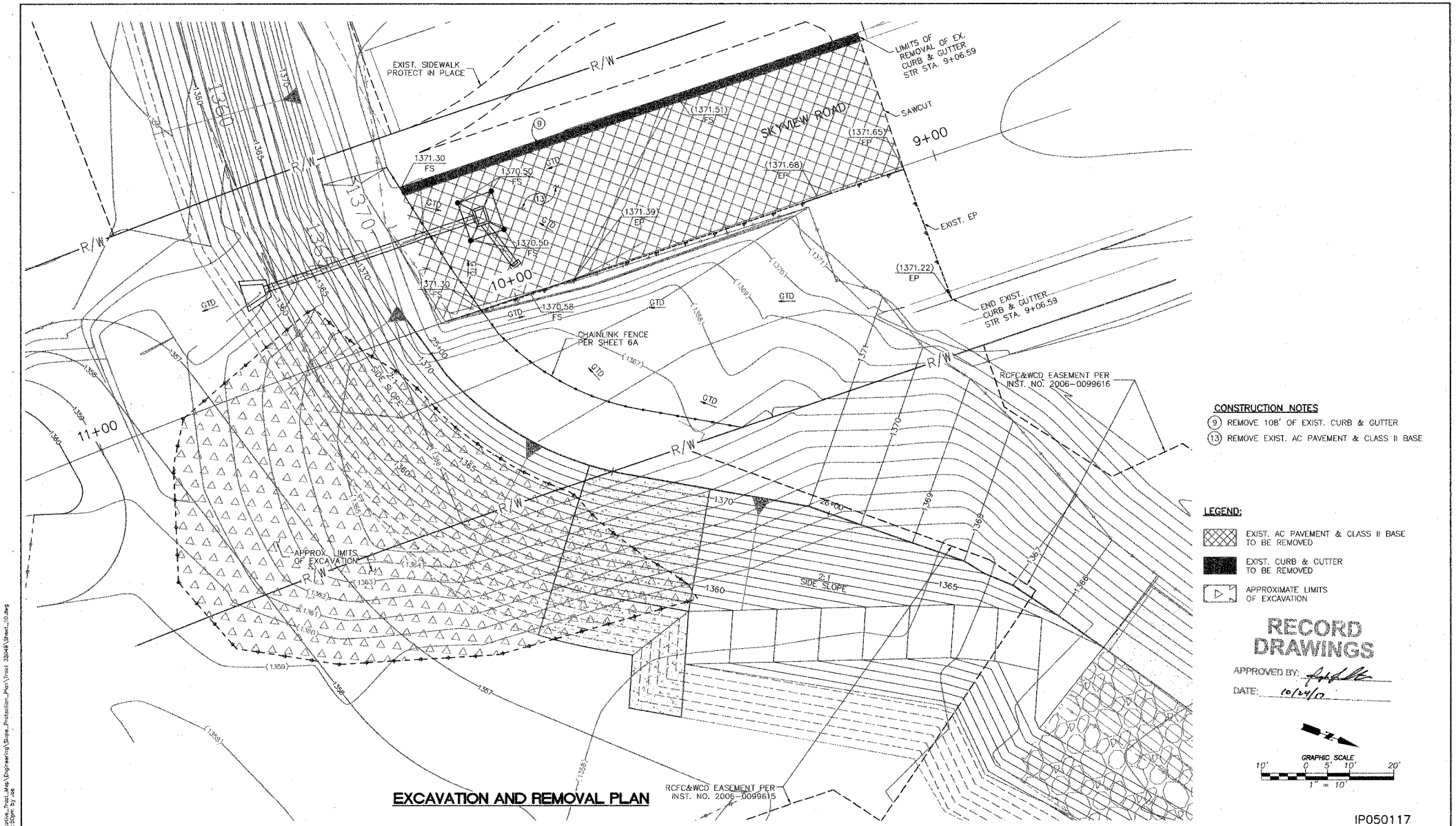

EXCAVATION AND REMOVAL PLAN

CONSTRUCTION NOTES

(9) REMOVE 108' OF EXIST. CURB & GUTTER

(13) REMOVE EXIST. AC PAVEMENT & CLASS II BASE

LEGEND:

EXIST. AC PAVEMENT & CLASS II BASE TO BE REMOVED

EXIST. CURB & GUTTER TO BE REMOVED

APPROXIMATE LIMITS OF EXCAVATION

RECORD DRAWINGS

APPROVED BY: [signature]

DATE: 10/24/12

GRAPHIC SCALE 10' 0 5' 10' 20' 1" = 10'

IP050117

UNDERGROUND SERVICE ALERT
DIG ALERT
Call: TOLL FREE 1-800 227-2600
TWO WORKING DAYS BEFORE YOU DIG

SEAL-ENGINEER
REGISTERED PROFESSIONAL ENGINEER JOSEPH L. CASTANEDA NO. 59835 EXP. 12/31/12 CIVIL STATE OF CALIFORNIA

JLC Engineering & Consulting, Inc.
36263 CALLE DE LOBO MURRIETA, CA 92562
PH. 951.304.9552 FAX 951.304.3368
JOSEPH L. CASTANEDA R.C.E. 59835 — DATE 11/8/12

BENCHMARK:
RECOVERY NOTE BY METRO WATER DIST. SO. CAL. 10962 2.8 MI. (4.2 KM.) NORTHWEST OF LAKE SKINNER RESERVOIR, FROM THE INT. OF WASHINGTON ST. AND BRUMFIELD ST./FIELDS DR., 550 FT. (168.1 M) WEST ALONG BRUMFIELD ST./FIELDS DR. 13 FT. (4.0 M) NORTH OF THE C/L OF BRUMFIELD ST./FIELDS DR., 103 FT. (31.4 M) NORTHWEST OF POWER POLE NO. 216211 2 FT. (0.6 M) EAST OF CARSONITE SURVEY MARKER, 2.5 FT. (0.8 M) EAST OF THE CORNER OF A WOOD FENCE POST WITH BARBED WIRE. A 4 INCH BRASS USGS STD. CAP. STAMPED 1419 SEA AND SET ON TOP OF A 4 INCH IRON PIPE 0.5 FT. (15.2 CM) BELOW SURFACE.
ELEVATION=1418.851 FT. DATE 3-1-02

REVISIONS			
REF.	DESCRIPTION	APPR.	DATE

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
RECOMMENDED FOR APPROVAL BY: DATE:
APPROVED BY: DATE:

COUNTY OF RIVERSIDE TRANSPORTATION DEPARTMENT
REVIEWED BY: [signature] ALAN D. FRENCH, P.E. — DATE 11-8-12
RECOMMENDED — DATE

WARM SPRINGS VALLEY FRENCH VALLEY CHANNEL TRACT 32049
EXCAVATION AND REMOVAL SHEET

PROJECT NO. 7-0-00205
DRAWING NO. 7-485
SHEET 10 OF 12

942-GG

Drawing Name: G:\150-01 GR\Tentative_Tract_Maps\Engineering\Slope_Protection_Plan\Tract 32049\Sheet_10.dwg
Last Updated: Nov 08, 2012 - 2:30pm by cdb

RESTORATION PLAN

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SEAL-ENGINEER
REGISTERED PROFESSIONAL ENGINEER
JOSEPH L. CASTANEDA
NO. 59835
EXP. 12/31/12
CIVIL
STATE OF CALIFORNIA

JLC Engineering & Consulting, Inc.
36263 CALLE DE LOBO MURRIETA, CA 92562
PH. 951.304.9552 FAX 951.304.3568

JOSEPH L. CASTANEDA R.C.E. 59835 — DATE 11/8/12

BENCHMARK:
RECOVERY NOTE BY METRO WATER DIST. SD. CAL. 1992. 2.6 ML. (4.2 KM) NORTHWEST OF LAKE SKINNER RESERVOIR, FROM THE INT. OF WASHINGTON ST. AND BRUMFIELD ST./FIELDS DR., 850 FT. (198.1 M) WEST ALONG BRUMFIELD ST./FIELDS DR. 13 FT. (4.0 M) NORTH OF THE C/L OF BRUMFIELD ST./FIELDS DR., 103 FT. (31.4 M) NORTHWEST OF POWER POLE NO. 216211 2 FT. (0.6 M) EAST OF CARSONITE SURVEY MARKER, 2.5 FT. (0.8 M) EAST OF THE CORNER OF A WOOD FENCE POST WITH BANDED WIRE. A 4 INCH BRASS USGS STD. CAP. STAMPED 1419 SEA AND SET ON TOP OF A 4 INCH IRON PIPE 0.5 FT. (15.2 CM) BELOW SURFACE.
ELEVATION=1419.851 FT. DATE 3-1-02

REVISIONS		
REF.	DESCRIPTION	APPR. DATE

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
RECOMMENDED FOR APPROVAL BY: DATE:
APPROVED BY: DATE:

COUNTY OF RIVERSIDE
TRANSPORTATION DEPARTMENT
REVIEWED BY: ALAN D. FRENCH, P.E. DATE
RECOMMENDED DATE

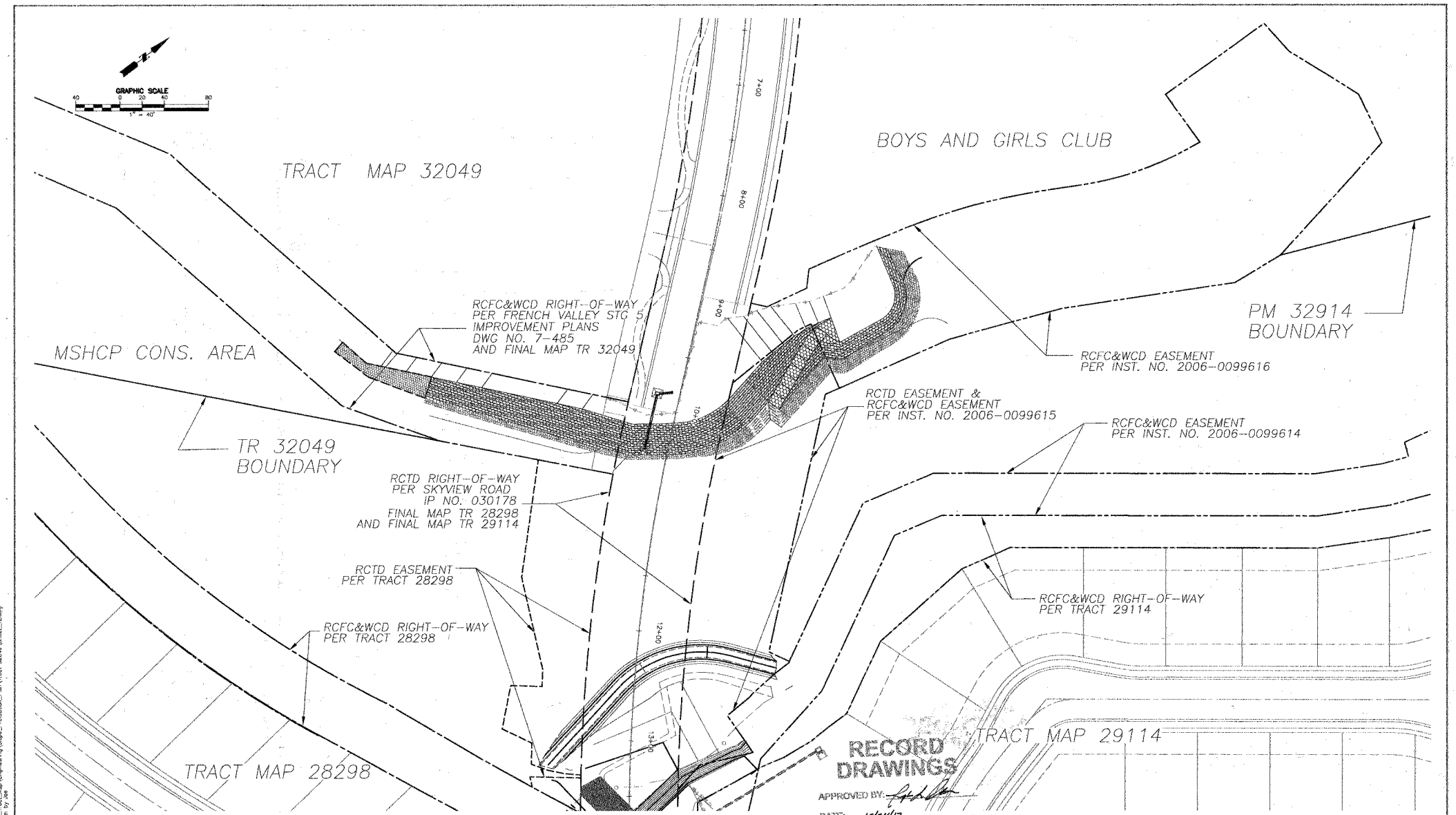
WARM SPRINGS VALLEY
FRENCH VALLEY CHANNEL
TRACT 32049
RESTORATION SHEET

PROJECT NO. 7-0-00205
DRAWING NO. 7-485
SHEET 11 OF 12

942-GG

Drawing Name: G:\150.01.001\Tentative_Tract_Map\Engineering\Slope_Protection_Plan\Tract 32049\Sheet_11.dwg
Last Updated: Nov 08, 2012 - 2:53pm by Jose

SUPPLEMENTAL PROJECT INFORMATION, AS-BUILT PLANS RCFC&WCD 7-0485, Page 11 of 12



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DIG ALERT
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227-2600
TWO WORKING DAYS BEFORE YOU DIG

SEAL-ENGINEER
REGISTERED PROFESSIONAL ENGINEER JOSEPH L. CASTANEDA REG. 59835 EXP. 12/31/13 CIVIL STATE OF CALIFORNIA

JLC Engineering & Consulting, Inc.
36263 CALLE DE LOBO MURRIETA, CA 92562
PH. 951.304.9552 FAX 951.304.3568
JOSEPH L. CASTANEDA R.C.E. 59835 — DATE 11/8/12

BENCHMARK:
RECOVERY NOTE BY METRO WATER DIST. SO. CAL., 1992 3.6 MI. (4.2 KM) NORTHWEST OF LAKE SKINNER RESERVOIR, FROM THE INT. OF WASHINGTON ST., AND BROMFIELD ST./FIELDS DR., 850 FT. (198.1 M) WEST ALONG BROMFIELD ST./FIELDS DR. 13 FT. (4.0 M) NORTH OF THE C/L OF BROMFIELD ST./FIELDS DR., 103 FT. (31.4 M) NORTHWEST OF POWER POLE NO. 218211 2 FT. (0.6 M) EAST OF CARSONITE SURVEY MARKER, 2.5 FT. (0.8 M) EAST OF THE CORNER OF A WOOD FENCE POST WITH BARBED WIRE, A 4 INCH BRASS USGS STD. CAP, STAMPED 1419 SEA AND SET ON TOP OF A 4 INCH IRON PIPE 0.5 FT. (15.2 CM) BELOW SURFACE.
ELEVATION=1419.851 FT. DATE 3-1-02

REVISIONS			
REF.	DESCRIPTION	APPR.	DATE

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
RECOMMENDED FOR APPROVAL BY: DATE
APPROVED BY: DATE

COUNTY OF RIVERSIDE TRANSPORTATION DEPARTMENT
REVIEWED BY: DATE
ALAN D. FRENCH, P.E. RECOMMENDED DATE

WARM SPRINGS VALLEY FRENCH VALLEY CHANNEL TRACT 32049
EXISTING EASEMENT INDENTIFICATION

PROJECT NO. 7-0-00205
DRAWING NO. 7-485
SHEET 12 OF 12
942-GG

Drawing Name: G:\150.01.00\Tractiths_Tract_Map\Engineering\Slope_Protection_Plan\Tract 32049\Sheet_12.dwg
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