

Onmspec = 1; Lscope =
 O; PSIScale = 1; Aq40 Ver = 17 (LMS Test) ; Viretan = 1
 Xref: 9270-TBLA.dwg
 User: E:\Users\Engineering\9350-XX (Channel Line F)\Specs\9320-SHT_1.dwg
 - Tab NLE SHT_combined by Iron cl 1:24:03 PM 12/23/10



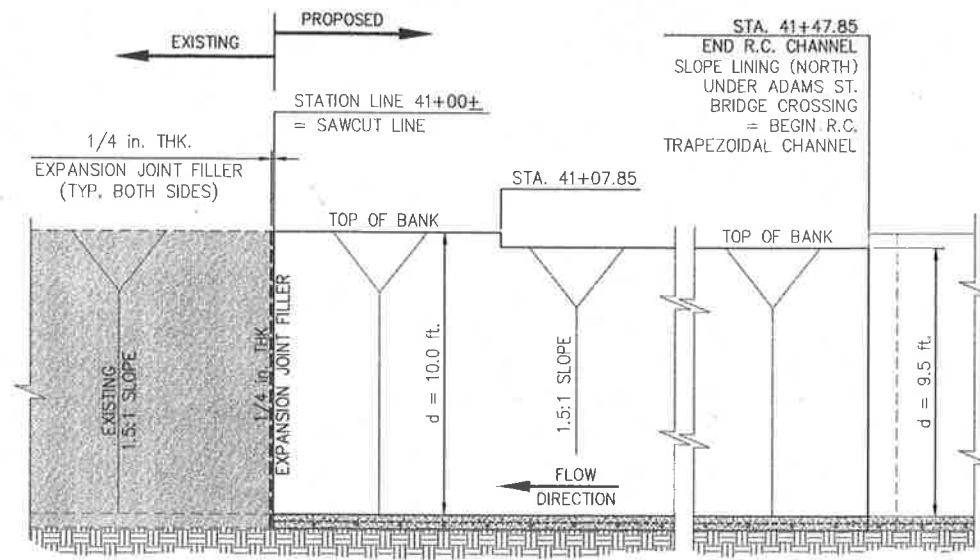
1. TOPOGRAPHIC AND PLAINMETRIC FEATURES ARE BASED ON R.C.F.C. PHOTOGRAMMETRY DATED SEPTEMBER 5, 1991.
2. ALL CROSS SECTIONS ARE TAKEN LOOKING DOWNSTREAM.
3. ALL ELEVATIONS ARE IN FEET, BASED ON U.S.C. AND G.S. DATUM.
4. ALL STATIONING REFERS TO CENTERLINE OF CONSTRUCTION.
5. LOCATION AND ELEVATION OF UTILITIES ARE APPROXIMATE UNLESS NOTED. CONTACT UNDERGROUND SERVICE ALERT AT (800) 422-4133 PRIOR TO EXCAVATING.
6. ALL UTILITIES TO BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED.

R.C.F.C. & W.C.D. STANDARD DRAWINGS

CH326	TRAPEZOIDAL CHANNEL (MODIFIED)
CH332	SUBDRAIN DETAILS
CH333	CONCRETE DRAINAGE APRON (MODIFIED)
JS232	JUNCTION STRUCTURE No. 7

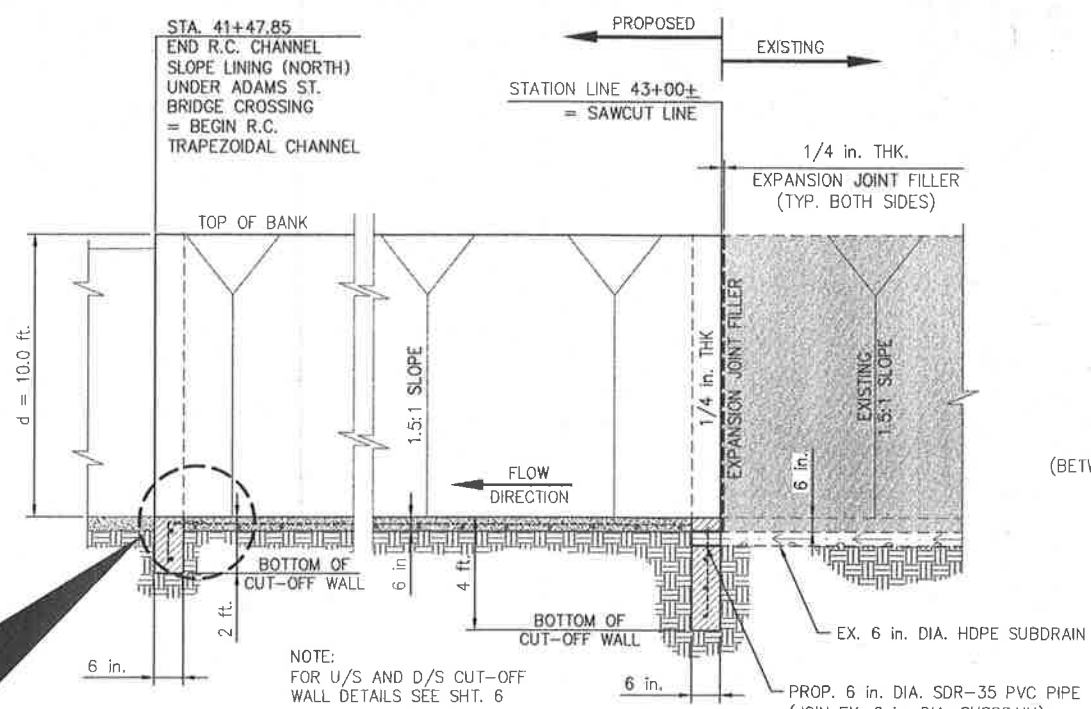
[illegible]

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DOWNSTREAM CHANNEL WALL DETAIL

N.T.S.

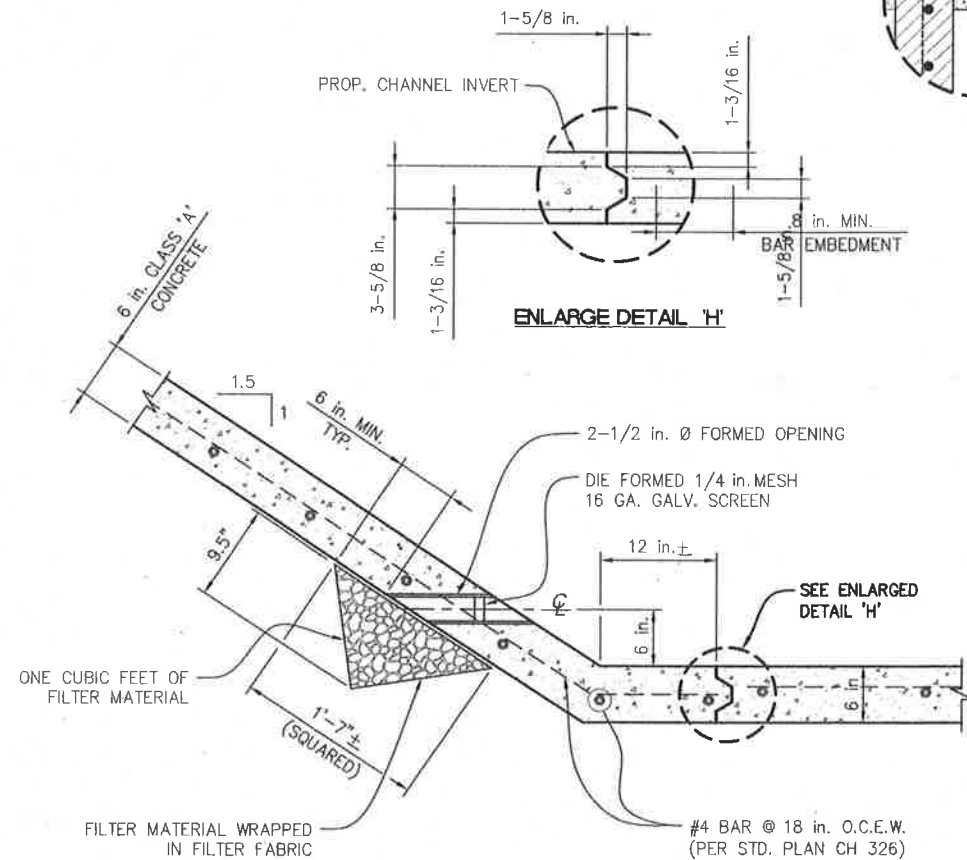


UPSTREAM CHANNEL WALL DETAIL

N.T.S.

DETAIL-18: DOWNSTREAM 2 ft. CUT-OFF WALL AT STA. 41+47.85

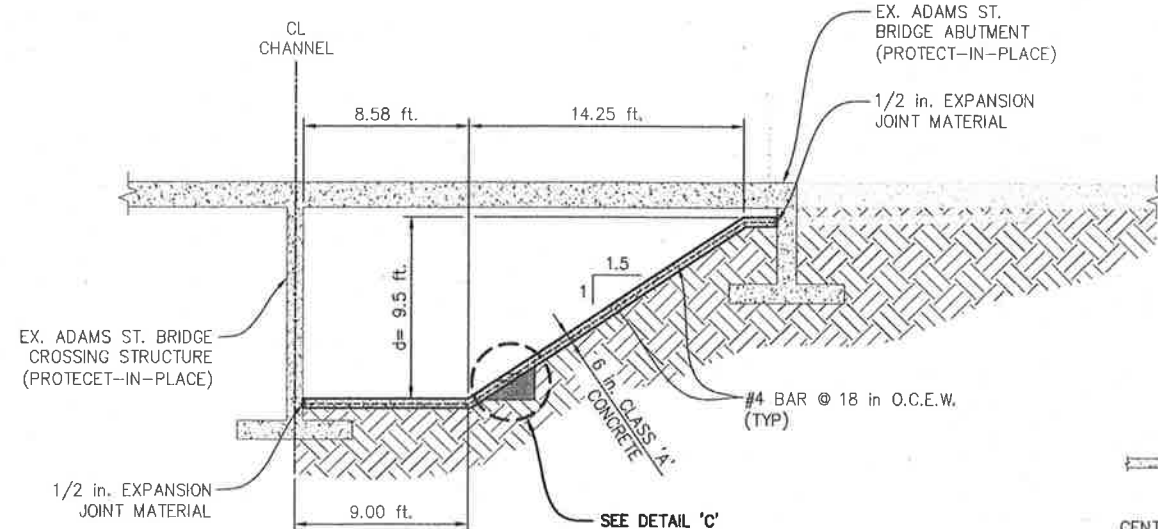
DETAIL-11: UPSTREAM 4 ft. CUT-OFF WALL AT STA. 43+00±



DETAIL 'C'

TYPICAL SECTION AND LOGITUDINAL CONSTRUCTION JOINT

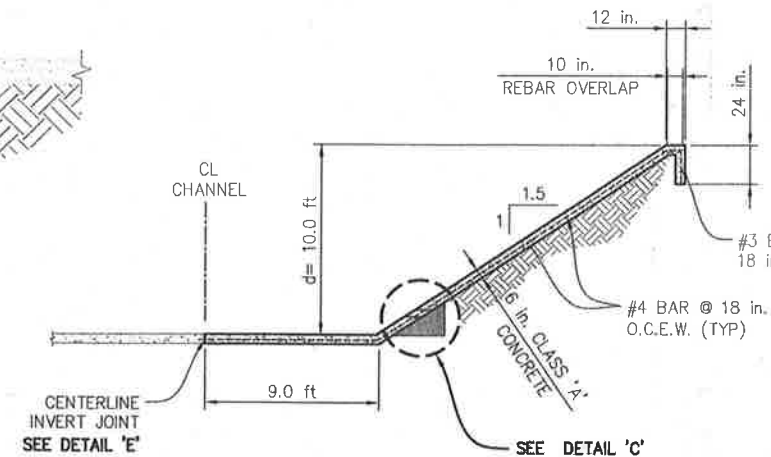
N.T.S.



DETAIL-15

CHANNEL SLOPE LINING UNDER ADAMS ST. BRIDGE CROSSING

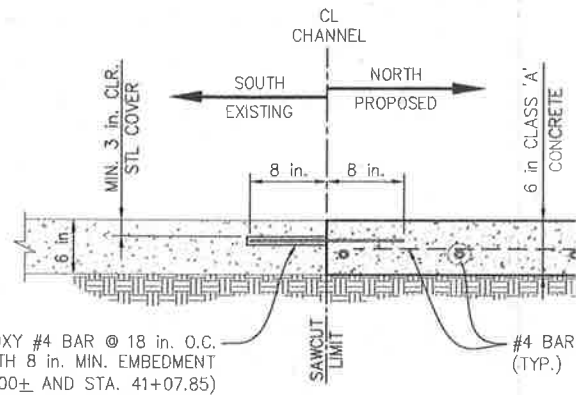
SCALE: 1" = 5'



DETAIL-10 AND DETAIL-14

CHANNEL SLOPE LINING FROM STA. 41+00 TO STA. 41+07.85

SCALE: 1" = 5'



DETAIL 'E'

CENTERLINE INVERT JOINT DETAIL AT STATIONS 41+07.85 & 41+47.85

N.T.S.



37520 Newhope Street, Suite 300 | Fountain Valley, CA 92708
P: (714) 341-1111 | F: (714) 341-1112 | www.pacewater.com

JONIS C. SMITH R.C.E. 58654

12/29/10
DATE



Don't Dig...Until You Call U.S.A. Toll Free 1-800-227-2600
for the location of buried utility lines. Don't disrupt vital services.
TWO WORKING DAYS BEFORE YOU DIG

DESIGNED BY: J.C.S.
DRAWN BY: L.T.C.
DATE DRAWN: APRIL 2010
CHECKED BY: J.C.S.

BENCH MARK:

B.M. NO. R-3-70
BRASS DISK IN CONCRETE AT INTERSECTION OF JEFFERSON AVE. AND KALMA ST.

REVISIONS

Rev.	DESCRIPTION	ENGINEER	RCFC/	APPR.	DATE	APPR.	DATE

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

RECOMMENDED FOR APPROVAL BY:

Delgadillo

DATE: 15 FEB 2011

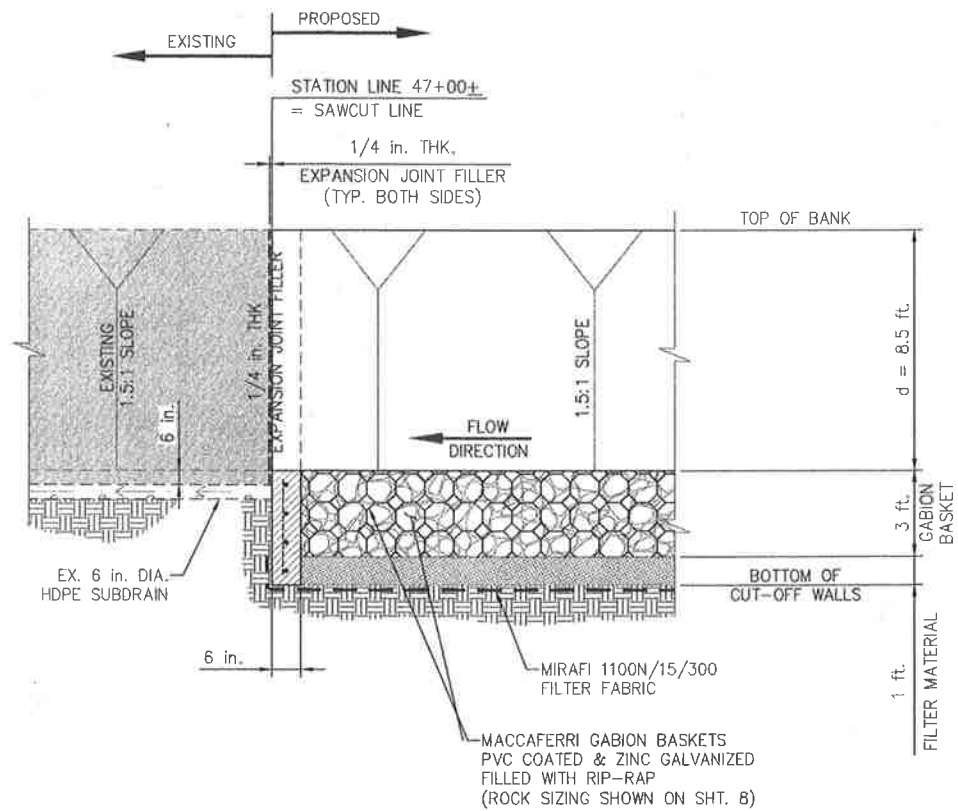
APPROVED BY:

Delgadillo

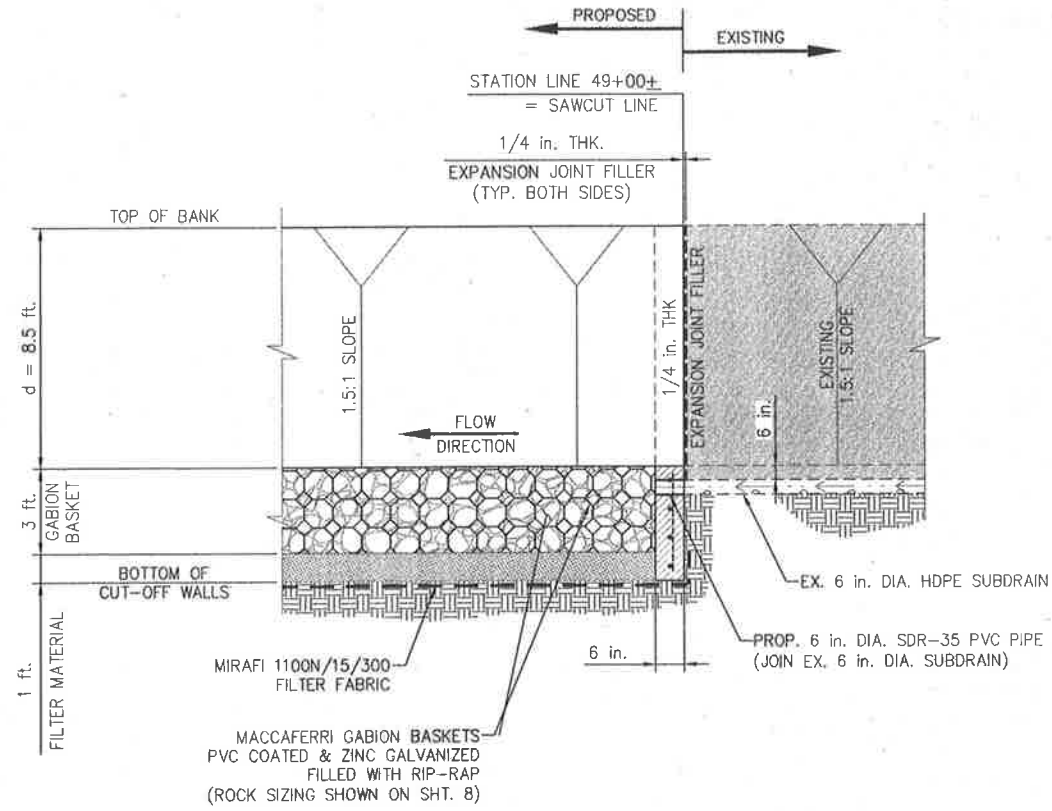
DATE: 15 Feb 2011

MURRIETA LINE F REPAIR

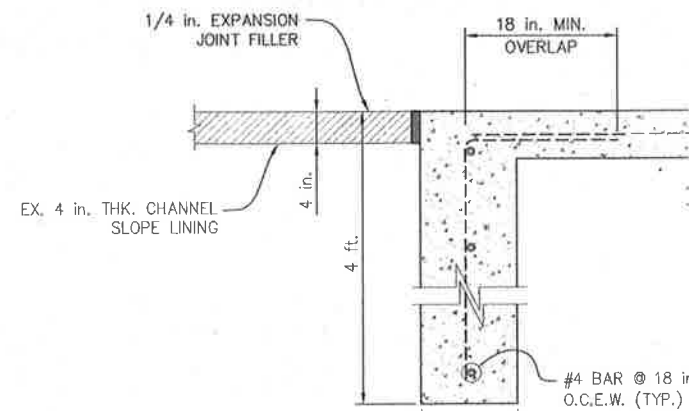
DETAILS



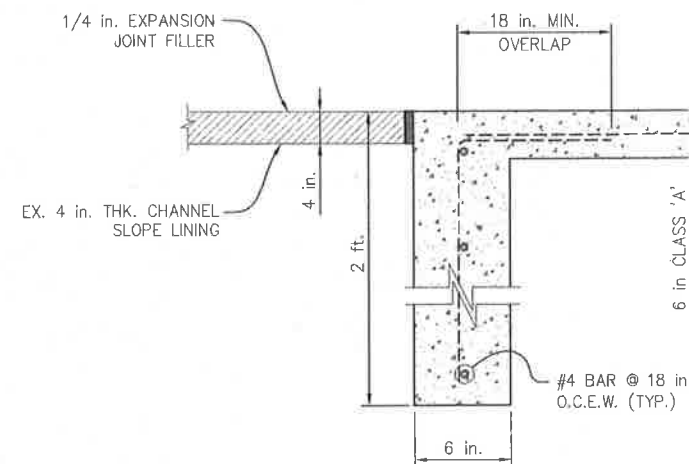
DOWNSTREAM TERMINUS TRANSVERSE CUT-OFF WALL DETAIL
N.T.S.



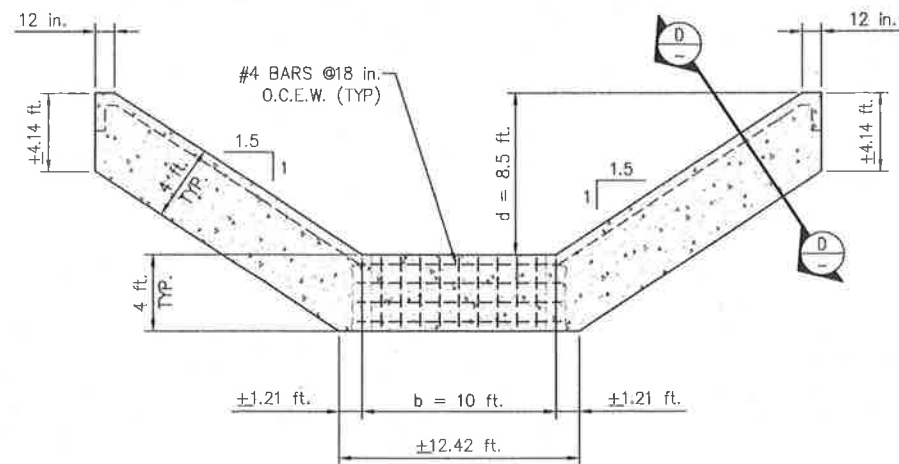
UPSTREAM TERMINUS TRANSVERSE CUT-OFF WALL DETAIL
N.T.S.



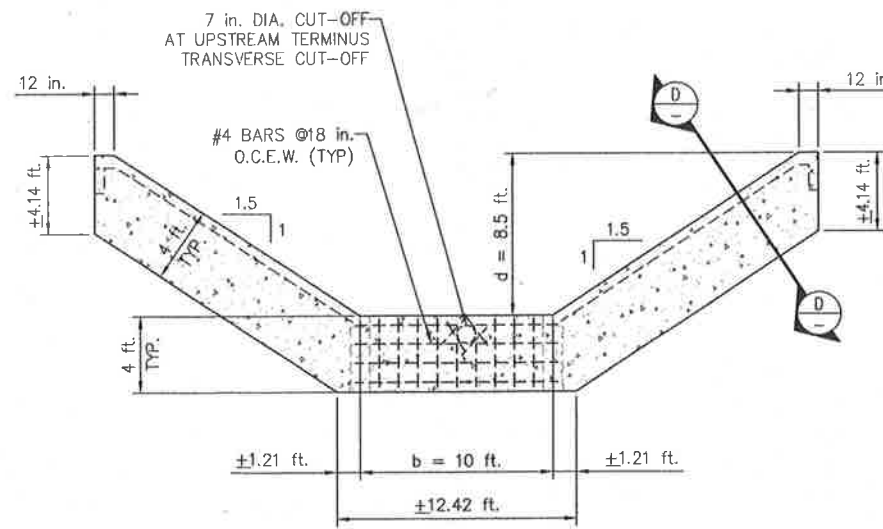
SECTION D-D
N.T.S.



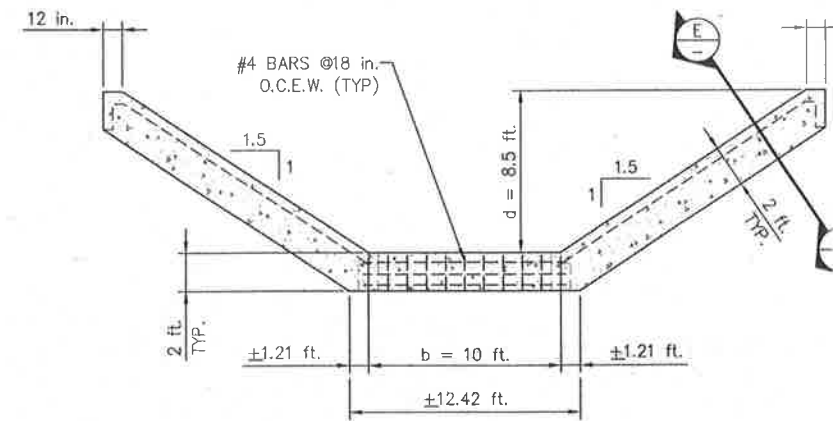
SECTION E-E
N.T.S.



DOWNSTREAM END 4 ft. CUT-OFF WALL DETAIL-7
SCALE: 1" = 5'



UPSTREAM END 4 ft. CUT-OFF WALL DETAIL-8 AND DETAIL-11
SCALE: 1" = 5'



DOWNSTREAM END 2 ft. CUT-OFF WALL DETAIL-18
SCALE: 1" = 5'



JONIS C. SMITH R.C.E. 58854
DATE: 12/23/10



Don't Dig...Until You Call U.S.A. Toll Free
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DESIGNED BY: J.C.S.
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BENCH MARK:
B.M. NO. R-3-70
BRASS DISK IN CONCRETE AT INTERSECTION
OF JEFFERSON AVE. AND KALMA ST.

REVISIONS			
Rev.	DESCRIPTION	APPR.	DATE

**RIVERSIDE COUNTY FLOOD CONTROL
AND
WATER CONSERVATION DISTRICT**

RECOMMENDED FOR APPROVAL BY: *[Signature]*
DATE: 15 FEB 2011
APPROVED BY: *[Signature]*
DATE: 15 FEB 2011

**MURRIETA LINE F
REPAIR**

DETAILS

1. PRODUCT DESCRIPTION

- ## 2. MATERIALS

2.1 COBBLES MATERIAL SHALL BE A CLEAN CRUSHED STONE OR GRANULAR FILL MEETING THE FOLLOWING GRADATION.

2.2 GABION WALL UNITS SHALL BE GALVANIZED THEN PVC COATED 8X10 HEXAGONAL DOUBLE TWIST WIRE MESH TYPE AS PER ASTM A975-97.

	Lacing Wire	Mesh Wire	Selvedge Wire / Preformed
PVC Mesh Diameter a in. (mm)	0.0870 (2.23)	0.1068 (2.73)	0.1340 (3.44)
Wire Tolerance (±) a in. (mm)	0.004 (0.10)	0.004 (0.10)	0.004 (0.10)
Minimum Quantity/Zinc oz/ft ² (g/m ²)	0.70 (21)	0.80 (24)	0.85 (25)
Wire/PVC diameter in. (mm)	0.127 (3.20)	1.46 (3.70)	0.174 (4.40)

- 2.4 WOVEN WIRE MESH TYPE 8X10 -- THE MESH AND WIRE CHARACTERISTICS SHALL BE IN ACCORDANCE WITH ASTM A975-97 TABLE 1. MESH TYPE 8X10, THE NOMINAL MESH OPENING D = 3.25 IN. (83 mm) (FIG. 2 ON SHEET 9), THE MINIMUM MESH PROPERTIES FOR STRENGTH AND FLEXIBILITY SHALL BE IN ACCORDANCE WITH THE FOLLOWING: MESH TENSILE STRENGTH SHALL BE 3500 LB (157 kN/m) MINIMUM WHEN TESTED IN ACCORDANCE WITH ASTM A975-97 SECTION 13.1.1. PUNCH TEST RESISTANCE SHALL BE A MINIMUM OF 6000 LB (267 kN) WHEN TESTED IN ACCORDANCE WITH ASTM A975-97 SECTION 13.1.4. CONNECTION TO SELF-DESIGNS SHALL BE 1400 LB (62 kN/m) WHEN TESTED IN ACCORDANCE WITH ASTM A975-97.

3. FOUNDATION PREPARATION

- #### 4. CONSTRUCTION

- 4.1 **ASSEMBLY** - OPEN AND UNFOLD EACH GABION ON A FLAT, HARD SURFACE AND REMOVE ANY SHIPPING FOLDS IF NECESSARY. THIS CAN BE DONE BY PLACING THE FOLD OVER A 2' X 4' BOARD AND WALKING ALONG THE SIDES, LIFT UP THE SIDES, ENDS AND DIAPHRAGMS INTO A VERTICAL POSITION TO FORM AN OPEN BOX SHAPE (STEP 3 OF GABION FOLDING PROCESS). CONNECT THE EDGES OF THE GABION AND DIAPHRAGMS BY USING EITHER LACING WIRE OR RING FASTENERS (FIG. 3 ON SHEET 9). THE USE OF PLUERS TO AID ASSEMBLY AND TYING OF THE UNITS USING THE LACING WIRE SUPPLIED WITH THE GABIONS IS NORMALLY RECOMMENDED.

- ## 5. TECHNICAL REQUIREMENTS

- ### 8. DRAINAGE

- 6.4 PERMANENT SURFACE WATER DIVERSION AND / OR COLLECTION SHALL BE AS REQUIRED AND PROVIDED BY THE OWNER OR OWNER'S REPRESENTATIVE.

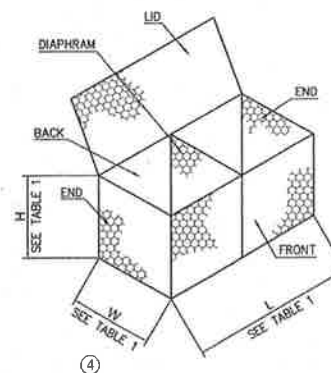
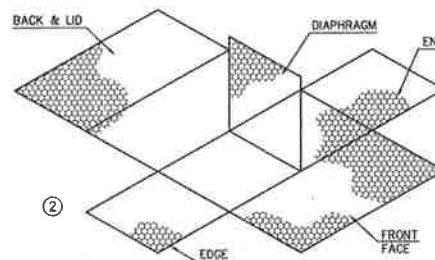
GABION TYPICAL DETAIL NOTES

1. MACGAFERRI GABIONS ARE DELIVERED TO THE JOB SITE IN BUNDLES. THEY ARE COMPRESSED AND STRAPPED IN THE FACTORY FOR EASIER SHIPPING AND HANDLING.
2. OPEN AND UNFOLD THE GABIONS ONE BY ONE ON A FLAT, HARD SURFACE. ELIMINATE ALL FOLDS DUE TO THE PACKAGING.
3. PULL UP THE SIDES AND THE DIAPHRAGMS TO FORM AN OPEN BOX. BE SURE THE TOP OF THE FACE AND THE SIDE ARE AT THE SAME LEVEL.
4. FOLD BY HAND THE END OF THE REINFORCING WIRE OF THE MAIN UNIT AND THE DIAPHRAGMS ALLOWING THE GABION TO STAND BY ITSELF.
5. EDGES ARE JOINED TOGETHER, USING THE APPROPRIATE LACING TECHNIQUES OR FASTENERS.

LACING: GALVENIZED AND PVC COATED CONTINUOUS WIRE LOOPED TIGHTLY AROUND EVERY OTHER MESH OPENING, ALTERNATING SINGLE AND DOUBLE LOOPS (FIG. 3a ON SHEET 9).

FASTENERS: USE A PNEUMATIC OR HAND POWER TOOL, EMPLOYING STAINLESS STEEL "C" SHAPED FASTENERS OR EQUIVALENT (FIG. 4 ON SHEET 9). FOR CONTINUITY AND STRENGTH, THE RECOMMENDED SPACING IS 8 TO 12 cm, MAX. 150mm (FIG 3b ON SHEET 9).

6. FILL THE CELLS WITH STONE IN 1/3 HEIGHT INCREMENTS UTILIZING CROSSTIES OR STIFFENERS PER GABION TYPICAL CONSTRUCTION NOTES 4.3 & 4.4 AND REINFORCING DETAILS HEREON.
7. LACE OR RING THE GABION LID TO THE SIDES, ENDS, DIAPHRAGMS AND ADJOINING GABIONS PER GABION TYPICAL CONSTRUCTION NOTE 4.4 HEREON. GABIONS WITH LIDS AT FINISH GRADE ELEVATIONS SHALL UTILIZE THE LID ASSEMBLY DETAILS ON SHEET 9.



GABION TYPICAL DETAIL



GABION REINFORCING DETAIL.

N.T.S.

GABION

NOTES AND DETAILS

