BENCH MARK:

CONCRETE NAIL IN N.W. END OF FLOOD CONTROL CHANNEL HEADWALL ON N.E. SIDE OF BUCHANAN STREET 350' N.W. OF ℄ INTERSECTION MAGNOLIA AVENUE.

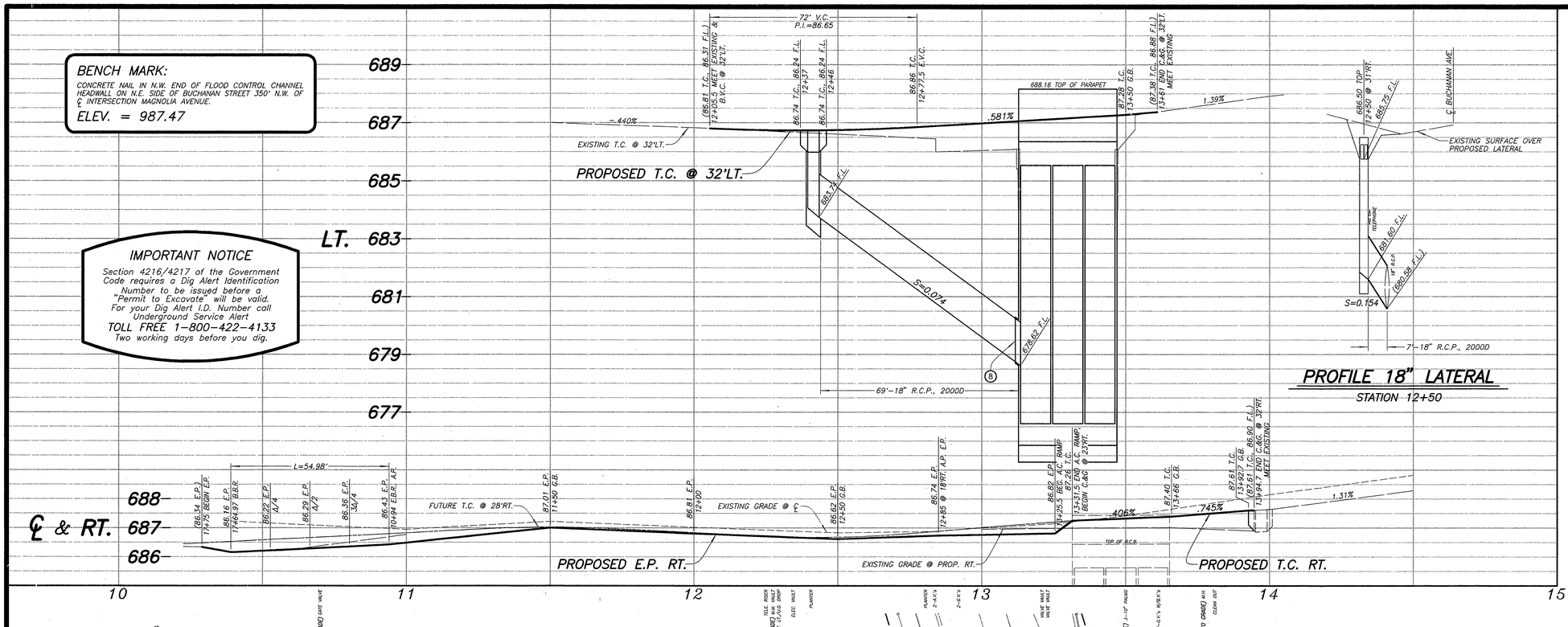
ELEV. = 987.47

IMPORTANT NOTICE

Section 4216/4217 of the Government Code requires a Dig Alert Identification Number to be issued before a "Permit to Excavate" will be valid. For your Dig Alert I.D. Number call Underground Service Alert

TOLL FREE 1-800-422-4133

Two working days before you dig.



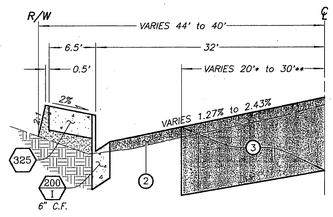
GENERAL NOTES

1) CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF RIVERSIDE STANDARD DRAWINGS AND STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION. 1991 EDITION.
2) EXISTING UTILITIES SHOWN ON THE PLAN, ARE PLOTTED FROM UTILITY RECORDS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO LOCATE AND PROTECT ALL UTILITIES WHETHER OR NOT SHOWN ON THIS PLAN.
3) PRIME CONTRACTORS BIDDING THIS WORK SHALL HAVE A CLASS "A" LICENCE.
4) ALL ELEVATIONS SHOWN ON THE PLAN SHALL BE STAKED IN THE FIELD.

CONSTRUCTION NOTES

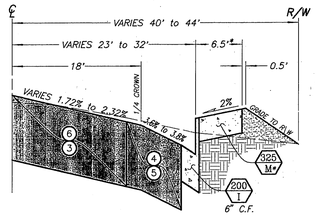
⬢ NUMBERS ABOVE 100 IN A HEXAGON ON THE PLAN REFER TO THE RESPECTIVE STANDARD DRAWING AND SHALL BE CONSTRUCTED ACCORDINGLY, UNLESS MODIFICATIONS ARE NOTED ON THE PLAN. ANY NUMBER SHOWN BELOW THE STANDARD DRAWING NUMBER INDICATES THE SPECIFIC ALTERNATE TO BE CONSTRUCTED.

1. CONSTRUCT ASPHALT CONCRETE RAMP. REGRADE AROUND RAMP TO MATCH EXISTING.
2. CONSTRUCT VARIABLE THICKNESS ASPHALT CONCRETE OVERLAY (MINIMUM 0.10'). GRIND EXISTING A.C. ALONG GUTTER AS REQUIRED TO MEET GUTTER LIP.
3. REMOVE EXISTING PAVEMENT AND REPLACE WITH 0.90' FULL DEPTH ASPHALT CONCRETE OVER COMPACTED NATIVE.
4. CONSTRUCT VARIABLE FULL DEPTH ASPHALT CONCRETE OVER BOX CULVERT.
5. CONSTRUCT 0.90' FULL DEPTH ASPHALT CONCRETE OVER COMPACTED NATIVE.
6. REMOVE EXISTING PAVEMENT AND REPLACE WITH VARIABLE FULL DEPTH ASPHALT CONCRETE OVER BOX CULVERT.
7. CONSTRUCT 69 L.F. OF 18" R.C.P.-2000D
8. CONSTRUCT JUNCTION STRUCTURE No. 1 (JS226) PER R.C.F.C.W.C.D. A=107°32'45", B=18', C=1.82'*, ELEV. R=678.72, ELEV. S=678.62
* DISTANCE IS FROM INSIDE WALL, NOT THE CENTER LINE OF THE CHANNEL.



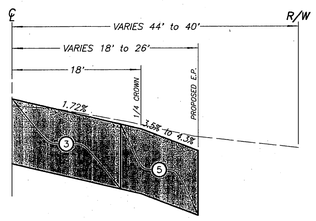
BUCHANAN STREET TYPICAL CROSS SECTION

STATION 10+57 LT. TO 14+05 LT.
T.I.=8, R=20
* STATION 12+05.5 TO 13+20±; ** STATION 13+54± TO 14+05



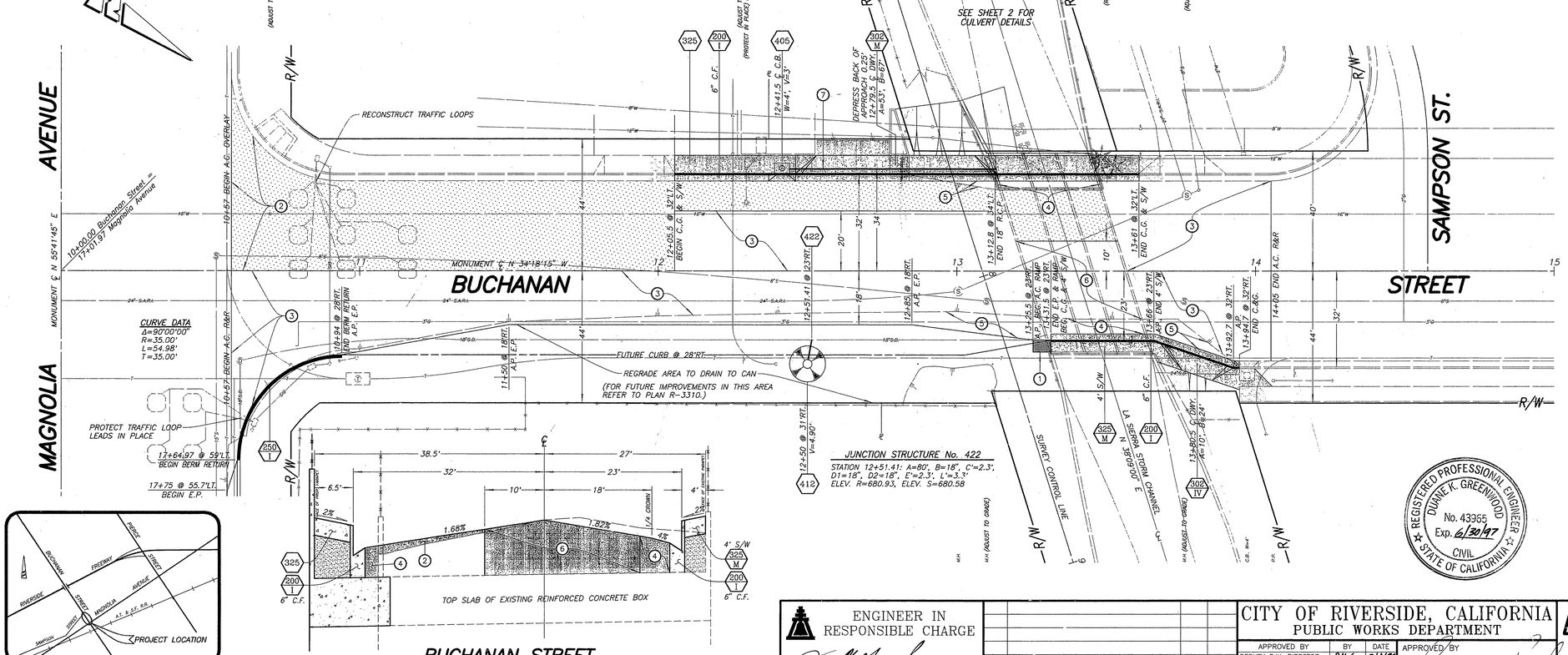
BUCHANAN STREET TYPICAL CROSS SECTION

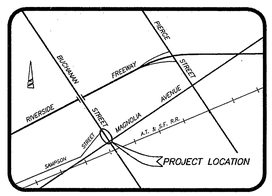
STATION 13+31.5 RT. TO 14+05 RT.
T.I.=8, R=20
* STATION 13+31.5 TO 13+66, 4' SIDEWALK; STATION 13+66 TO 13+94.7, 6.5' SIDEWALK



BUCHANAN STREET TYPICAL CROSS SECTION

STATION 10+94 RT. TO 13+31.5 RT.
T.I.=8, R=20
* _____





PROJECT LOCATION MAP
NOT TO SCALE

BUCHANAN STREET CROSS SECTION OVER LA SIERRA CHANNEL
STATION 13+40

REGISTERED PROFESSIONAL ENGINEER DUANE K. GREENWOOD No. 43965 Exp. 6/30/97 CIVIL STATE OF CALIFORNIA

ENGINEER IN RESPONSIBLE CHARGE
DUANE K. GREENWOOD
R.C.E. No. 43965 expires 06/30/97
DATE 5/4/94

MARK	REVISIONS	APPR.	DATE

DESIGNED BY PH/DSB DRAWN BY DAN CHECKED BY DKG

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
DEPUTY P.W. DIRECTOR	[illegible]	5/4/94
PRINCIPAL ENGINEER	[illegible]	5/4/94
CHIEF P.W. INSPECTOR	[illegible]	5-4-94
~~PAVING DEPARTMENT~~	—	—
STREET SERVICES	[illegible]	5/4/94
SURVEYOR	[illegible]	5/4/94
TRAFFIC DIVISION	[illegible]	5/4/94

APPROVED BY [illegible]
PUBLIC WORKS DIRECTOR
DATE 5/4/94

BUCHANAN STREET WIDENING AT LA SIERRA CHANNEL

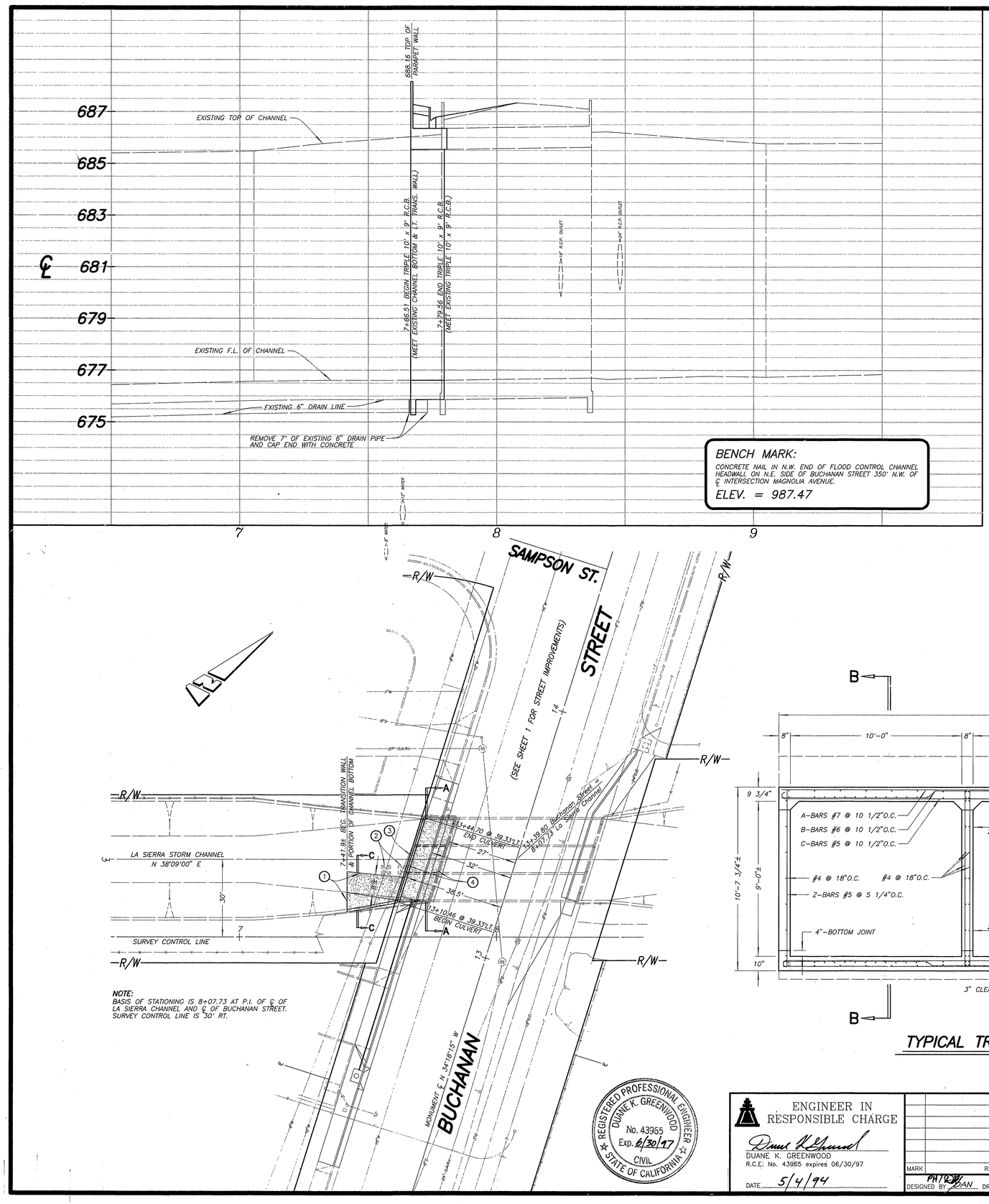
ACCOUNT NUMBER 432-541500-440302-30324

R-3348

SHEET 1 OF 2

HORIZONTAL SCALE: 1" = 20' VERTICAL SCALE: 1" = 2'

INDEXED 7-6-94 GH



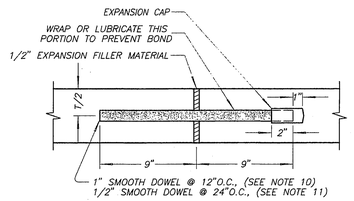
BENCH MARK:
CONCRETE NAIL IN N.W. END OF FLOOD CONTROL CHANNEL HEADWALL ON N.E. SIDE OF BUCHANAN STREET 350' N.W. OF ℄ INTERSECTION MAGNOLIA AVENUE.
ELEV. = 987.47

NOTE:
BASIS OF STATIONING IS 8+07.73 AT P.I. OF ℄ OF LA SIERRA CHANNEL AND ℄ OF BUCHANAN STREET. SURVEY CONTROL LINE IS 30' RT.

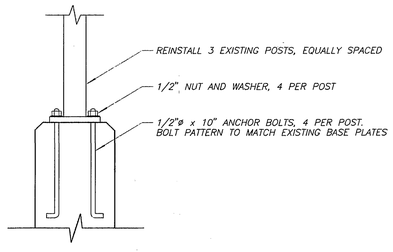
REGISTERED PROFESSIONAL ENGINEER
DUANE K. GREENWOOD
No. 43965
Exp. 6/30/97
CIVIL
STATE OF CALIFORNIA

CONSTRUCTION NOTES

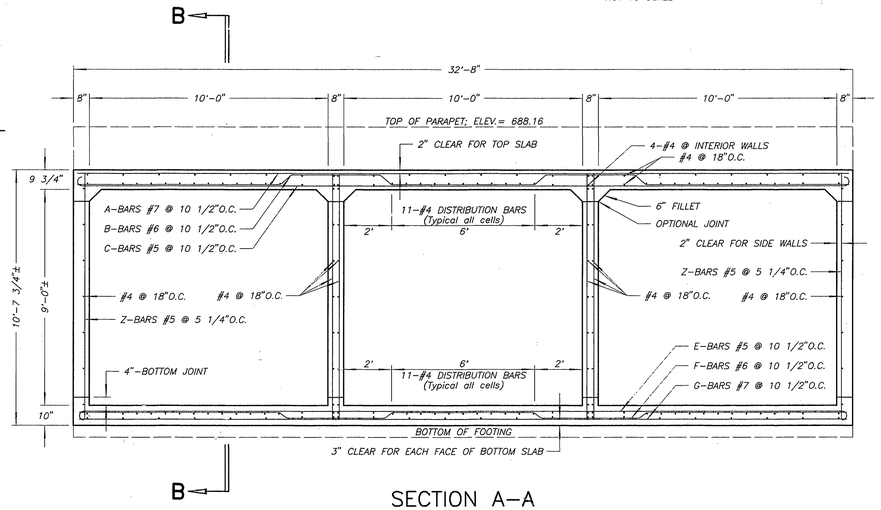
1. SAWCUT TRANSITION WALL AND CHANNEL BOTTOM ALONG EXISTING CONSTRUCTION JOINTS.
2. ABANDON EXISTING WATER VALVE MANHOLES BY FILLING CAVITIES (30"x30"x45") WITH CONCRETE (TOP 4"–3,250 P.S.I., REMAINDER TO BE FILLED WITH A 3 SACK MIX).
3. SAWCUT CHANNEL BOTTOM WHERE BOX CULVERT WILL MEET. EXISTING CHANNEL BOTTOM.
4. RELOCATE 6' CHAIN LINK FENCE AND POSTS (3) FROM EXISTING PARAPET WALL TO NEW PARAPET WALL. REATTACH POSTS PER DETAIL B (THIS SHEET).



DETAIL A
TYPICAL EXPANSION JOINT
NOT TO SCALE



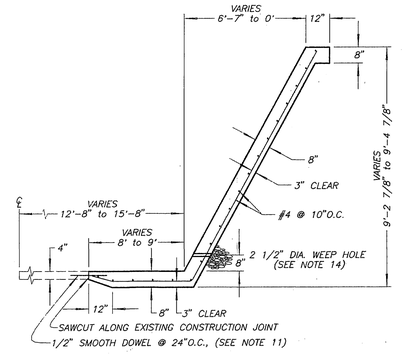
DETAIL B
FENCE POST MOUNTING TO PARAPET
NOT TO SCALE



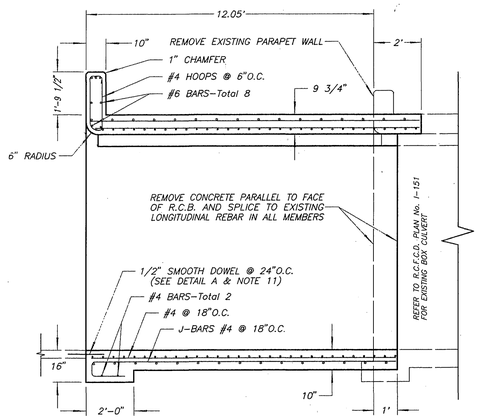
SECTION A–A
TYPICAL TRIPLE BOX CULVERT SECTION
SCALE: 1" = 3'

GENERAL NOTES

1) SPECIFICATIONS–AASHTO DATED 1985 AND REVISIONS.
2) LOADING: HS20–44 WITH 30% IMPACT.
3) CONCRETE: f'c = 3,250 P.S.I.
4) REINFORCING STEEL SHALL BE DEFORMED, GRADE 60 BILLET STEEL CONFORMING TO ASTM A615.
5) ALL REINFORCING BAR BENDS, HOOKS AND SPLICES SHALL CONFIRM TO THE REQUIREMENTS OF THE MANUAL OF STANDARD PRACTICE OF THE CONCRETE REINFORCING STEEL INSTITUTE.
6) LAP ALL REINFORCING STEEL A MINIMUM OF 30 BAR DIAMETERS AT SPLICES, THE LOCATION OF ALL SPLICES SHALL BE SUBJECT TO APPROVAL BY THE ENGINEER.
7) ALL REINFORCING STEEL SHALL HAVE A CLEAR COVER OF 2" FOR EACH FACE OF TOP SLAB AND SIDE WALLS AND 3" FOR EACH FACE OF BOTTOM SLAB.
8) ALL EXPOSED EDGES OF CONCRETE STRUCTURES SHALL BE CHAMFERED 3/4" OR ROUNDED AS DIRECTED.
9) ALL CONCRETE THICKNESS DIMENSIONS ARE THE MINIMUM ALLOWED.
10) WHERE NEW TRANSITION STRUCTURE MEETS BOX CULVERT THERE SHALL BE A 1/2" EXPANSION JOINT WITH 1" SMOOTH DOWELS @ 12"O.C. INSTALLED PER DETAIL A.
11) WHERE NEW TRANSITION STRUCTURE & BOX CULVERT MEET EXISTING 4" NONREINFORCED CHANNEL BOTTOM, A 1/2" EXPANSION JOINT WITH 1/2" SMOOTH DOWELS @ 24"O.C. IS TO BE USED.
12) IF EXISTING KEYWAY ALONG THE LATERAL JOINT AT STATION 7+41.9± CANNOT BE ESTABLISHED OR DOESN'T EXIST, THEN A 1/2" EXPANSION JOINT WITH 1" SMOOTH DOWELS @ 12"O.C. SHALL BE INSTALLED PER DETAIL A ALONG THAT LATERAL JOINT.
13) THE WALLS AND TOP SLAB MAY BE POURED MONOLITHIC, BUT AFTER THE WALLS HAVE BEEN POURED, A DELAY OF NOT LESS THAN 2 HOURS SHALL BE MADE BEFORE POURING THE TOP SLAB.
14) WEEP HOLES SHALL BE FORMED AS SHOWN AT A SPACING OF 10' WITH ONE CUBIC FOOT OF GRAVEL WRAPPED IN FILTER FABRIC PLACED AT EACH HOLE.



SECTION C–C
TYPICAL TRANSITION WALL SECTION
SCALE: 1" = 3'



SECTION B–B
TYPICAL TRIPLE BOX CULVERT SECTION
SCALE: 1" = 3'

ENGINEER IN RESPONSIBLE CHARGE
DUANE K. GREENWOOD
R.C.E. No. 43965 expires 06/30/97
DATE 5/4/94

MARK	REVISIONS	APPR.	DATE

DESIGNED BY PHT/DAN DRAWN BY DAN CHECKED BY DKG

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
DEPUTY P.W. DIRECTOR	PHG	5/6/94
PRINCIPAL ENGINEER	JL	5/4/94
CHIEF P.W. INSPECTOR	RGL	5-4-94
~~PARKS DEPARTMENT~~	—	—
STREET SERVICES'	RC	5/4/94
SURVEYOR	MSD	5/4/94
TRAFFIC DIVISION	3	5/4/94

APPROVED BY
PUBLIC WORKS DIRECTOR
DATE 5/6/94

BUCHANAN STREET WIDENING AT LA SIERRA CHANNEL

ACCOUNT NUMBER 432-541500-440302-30324

R–3348

SHEET 2 OF 2

HORIZONTAL SCALE: 1" = 20' VERTICAL SCALE: 1" = 2'

INDEXED 7-6-94 GH