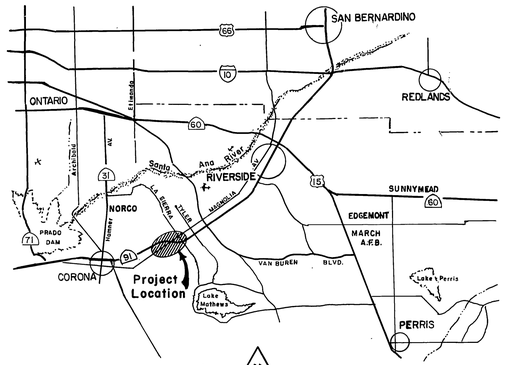
RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

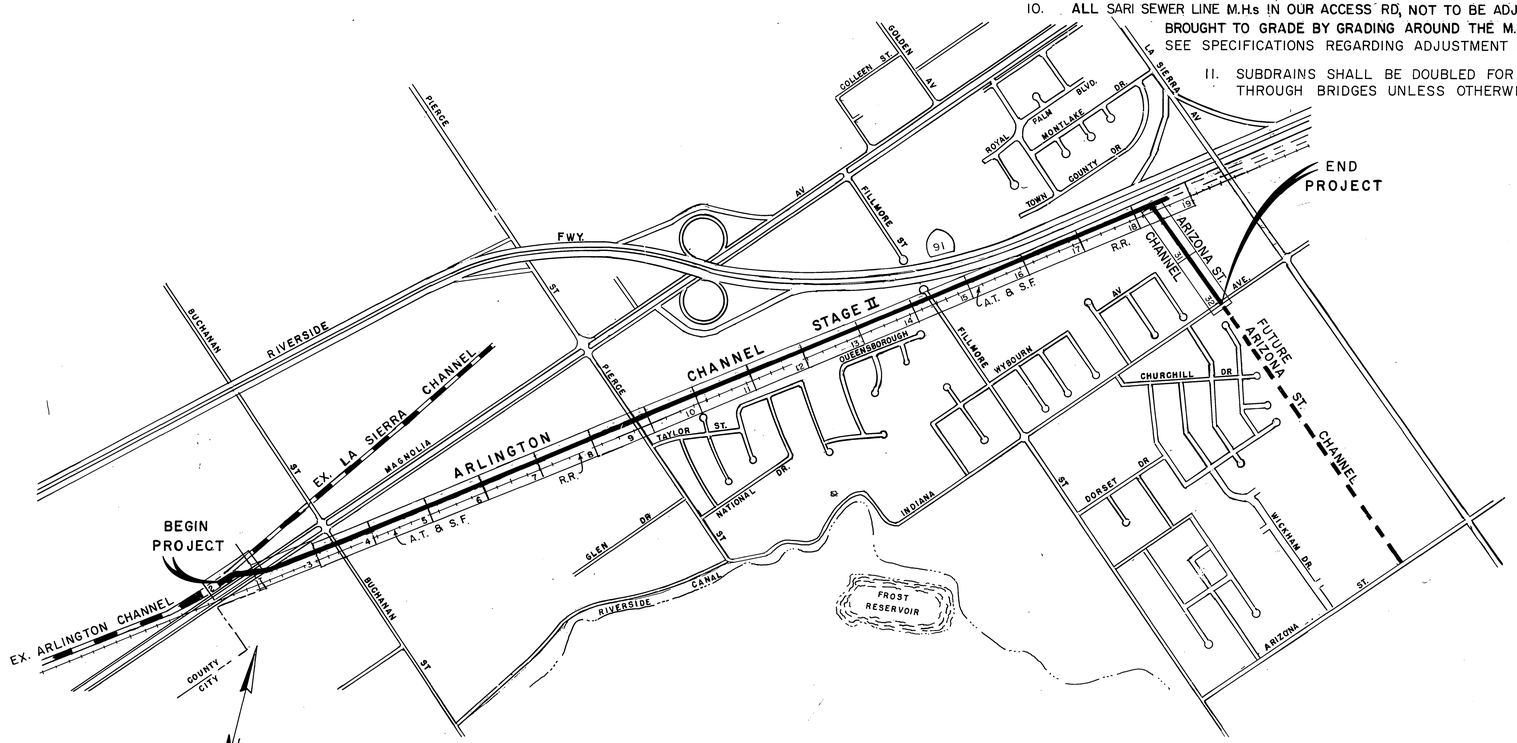


VICINITY MAP

0 1 2 3 4 5 6 7 8 Miles

GENERAL NOTES

1. EXISTING GROUND LINE SHOWN ON SHEETS 2 TO 19 IS AT THE SURVEY CONTROL LINE. EXISTING FLOW LINE AS SHOWN IS AT THE ℄ OF THE EXISTING CHANNEL.
2. NATURAL GROUND LINE AS SHOWN ON ARIZONA CHANNEL IS AT THE ℄ OF R/W.
3. PAVEMENT REPLACEMENT SHALL BE 3" OF ASPHALT CONCRETE AND 6" OF CLASS 2 BASE. OR THE EXISTING SECTION IN KIND, WHICHEVER IS GREATER.
4. SOIL TEST BORING LOCATIONS ARE APPROXIMATE.
5. ALL A.C. BERMS, CURBS, GUTTERS, SIDEWALKS, DRIVEWAYS AND OTHER EXISTING IMPROVEMENTS TO BE RECONSTRUCTED SHALL BE CONSTRUCTED AT SAME ELEVATION & LOCATION AS THE EXISTING IMPROVEMENTS UNLESS OTHERWISE NOTED.
6. ELEVATIONS AND LOCATIONS OF UTILITIES ARE SHOWN APPROX. ON PLANS. 48 HOURS BEFORE EXCAVATION CALL UNDERGROUND SERVICE ALERT 1-800-422-4133. ALL UTILITIES SHALL BE PROTECTED IN PLACE EXCEPT AS NOTED ON PLANS AND SPECIFICATIONS.
7. ALL OPENINGS RESULTING FROM CUTTING OR PARTIAL REMOVAL OF EX. CULVERTS, PIPES OR SIMILAR STRUCTURES TO BE ABANDONED SHALL BE SEALED, BOTH ENDS, WITH 6" OF CLASS"B" CONCRETE NOTED ON THE DRAWING AS"PLUG".
8. CUT AND PLUG ALL INTERFERING IRRIGATION LINES.
9. ALL TRAPEZOIDAL CHANNELS SHALL HAVE A 6" CONC. INVERT.
10. ALL SARI SEWER LINE M.Hs IN OUR ACCESS RD, NOT TO BE ADJUSTED BY OTHERS, SHALL BE BROUGHT TO GRADE BY GRADING AROUND THE M.H. AS DIRECTED IN THE FIELD. SEE SPECIFICATIONS REGARDING ADJUSTMENT OF SARI MANHOLES BY OTHERS.
11. SUBDRAINS SHALL BE DOUBLED FOR ALL CHANNEL SECTIONS AND THROUGH BRIDGES UNLESS OTHERWISE NOTED ON THE PLANS.



LOCATION MAP

600' 0 600'

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RIVERSIDE CITY STANDARDS

200	CURB AND GUTTER	60
500	PRECAST CONCRETE SEWER MANHOLE	61

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INDEXED - CD

REVISIONS			
REF.	DESCRIPTION	APPR.	DATE
	AS BUILT		14 FEB 85

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: A.E.P.
DRAWN BY: K.R.B.
DATE DRAWN: 1984
CHECKED BY: Rod Smith

APPROVED BY: Kenneth F. Edwards
CHIEF ENGINEER R.E. NO. 12400
DATE: 2-20-85

ARLINGTON CHANNEL STAGE II & ARIZONA STREET CHANNEL STAGE I
TITLE SHEET
1970 STORM DRAIN BOND ISSUE PROJECT NO. S-8

PROJECT NO. 1-0-020 & 170
DRAWING NO. 1-391 & 430
SHEET NO. 1 OF 64

D-606

198+70 199+00 200+00 201+00 176+00 177+00

695 690 685 680 675 670 665

STAGE I STATIONING

STAGE II STATIONING

BEGIN PROJECT

STA 200+14.94 END NORTH WALL BEGIN TRANSITION WALL

END SOUTH WALL ARLINGTON CH BEGIN BRIDGE & STAGE II STATIONING

NOTE: CONTRACTOR SHALL PROTECT IN PLACE ALL UTILITIES CROSSING OR PARALLELING THE STORM DRAIN, UNLESS OTHERWISE NOTED.

LA SIERRA CHANNEL NORTH SIDE

NORTH & SOUTH WALL

EX. N. WALL

EX. S. WALL

HGL

SOUTH WALL ARLINGTON CHANNEL

SOUTH WALL LA SIERRA CHANNEL

② EX. 30" INLET

LA SIERRA CHANNEL

EX. LA SIERRA CHANNEL

D=6'

670.48

EX. H.

INVERT @ WALL

S=0.005

671.20

676.00±

16" H.P. OIL

671.63

671.43

670.70

INVERT @ F.L.

669.98

IDENTICAL POINTS

HYDRAULIC DATA
Q = 8000 cfs
V = 15.2 fps

TRANSITION NORTH SIDE ⑨

200+59.72 END RT. TRANSITION WALL

201+02 END SOUTH WALL

198+70

EX. RECT. CHANNEL

(SEE SHEET 25)

RECT. CHANNEL B = 48', D = 14'
NORTH & SOUTH SIDE

SOUTH SIDE

42' CONC. TRAP. TRANS.

BEGIN BRIDGE

⑩

STA. 175+55.86

671.63

HYDRAULIC DATA
Q = 4710 cfs
V = 22 fps

BRIDGE B = 34', D = 8'-8"
SEE SHEET 21

8'-3"

GROUND LINE OVER ℄

MATCH LINE

⑥

Gas 6"

12 MCD TELEPHONE

HGL

S=0.1532

S=.005

672.30 GR. CHANGE

673.90 ~~672.36~~ GR. CHANGE

176+98

177+00

APPROX. LOCATION

GUARD RAIL

DIRT

CONC.

REMOVE TO THIS PT.

48'

N 55°59'07" E

199 ARLINGTON CHANNEL 200+00

35'

24'

17°32'45"

46.05

44.78

671.43

671.63 FL.

671.63

130'

88'

42.39'

42.56

N49°22'14"E

34'

12'

671.63

GUARD RAIL

Add Guard Rail Per CO #7

TELEPHONE MCD (12)

P.I. STA 200+59.72

E.P. STA 201+02

REMOVE

198+70 CHANNEL STAGE I

E/P

101'

MAGNOLIA AVE.

200+13.67 STAGE I

STAGE II

G6 H.P.

CURB

E/P

N 55°59'07" E

℄ MAGNOLIA AVE.

200+14.94 STAGE I END 14' WALL RT.

COUNTY LINE CITY LINE

REMOVE TO THIS POINT

T.P. EL. 673.70

CONC.

STRAIGHT LINE VARIES

℄ LA SIERRA CHANNEL

65'

APPROX. LOCATION

50°00'00"

8'-11.75"

7.72'

REMOVE TO 36" R.C.P.

16" STEEL OIL LINE

SS=1.5:1

10.93'

685.84

BH-1

Z=1500
STA. 176+29.23
(SURVEY)

R/W OF CHANNEL

6" Gas Relocated

TELE. MCD (12)

C.G.

DRIVEWAY

MATCH LINE

TRIPLE 60" R.C.P.
SEE DETAIL SHEET 21

℄ SIGN

G6 H.P.

E.C. 176+52.72

177+00

16" STEEL OIL LINE

177+59.34 S.D.
177+63.49 SURVEY

B.C. 201+02 STG. I = 175+55.86 STG. II
BEGIN BRIDGE

CURVE DATA
Δ = 36° 59' 46"
R = 150'
T = 50.18'
L = 96.86'
BC = 175+55.86
EC = 176+52.72

PLAN

20' 0 20'

① 6' CHAIN LINK FENCE

② REMOVE INTERFERING PORTIONS OF 30" RCP & PLUG REMAINING SECTION.

③ REMOVE INTERFERING PORTIONS & BULKHEAD ALL REMAINING SECTIONS OF 60" RCP, SALVAGE REMOVED RCP TO DISTRICT AS DIRECTED BY ENGINEER.

④ RAMP SHALL HAVE 6" INVERT & 4" SIDESLOPE WITH CUT-OFF WALL PER CH 326.

⑤ REMOVE EX. FENCE & GATE. REPLACE AS SHOWN.

⑥ PROTECT 12 MCD TELEPHONE. TEMPORARY SUPPORT SYSTEM TO BE CONSTRUCTED BY OTHERS. COORDINATE WITH PACIFIC TELE.

⑦ REMOVE ALL SUBDRAINS SHOWN.

⑧ INVERT SLAB TO BE 8" THICK.

⑨ TRANSITION BOTTOM FROM SLOPED INVERT ℄ STA. 200+14.94 TO HORIZ. INVERT ℄ STA. 200+59.72.

⑩ FOR PARAPET DETAILS SEE SHTS. 2A, 21 & 25.

BENCH MARK
T.B.M. SET RR SPIKE IN N SIDE OF PP NO NUMBER S SIDE OF MAGNOLIA
EL. 691.46

SCALE:

DATE:

REVISIONS			
C1	El & Bridge Design Changed to Close Mc Gas Line	DAS	10/20/86
C	6" Gas Line Relocated	DAS	10/20/86
REF.	DESCRIPTION	APPR.	DATE

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: A.E.P.
DRAWN BY: K.R.B.
DATE DRAWN: 1984
CHECKED BY:

APPROVED BY: Kenneth L. Edwards
CHIEF ENGINEER R.E. NO. 12400
DATE: 2-20-85

ARLINGTON CHANNEL STAGE II

STA. 175+55.86 TO STA. 177+00

1970 STORM DRAIN BOND ISSUE PROJECT S-8

PROJECT NO. 1-0-020
DRAWING NO. 1-391
SHEET NO. 2 OF 64

INDEXED-CD

AS BUILT

D-606

CAUTION!! NOTIFY EUGENE TUCKER 714-781-6115, 48 HOURS IN ADVANCE OF EXCAVATION NEAR 6" HIGH PRESSURE GAS LINE.

NOTE: CONTRACTOR SHALL PROTECT IN PLACE ALL UTILITIES CROSSING OR PARALLELING THE STORM DRAIN, UNLESS OTHERWISE NOTED.

177 | 178 | 179 | 180+00 | 181 | 182

695 / 690 / 685 / 680 / 675 / 670

MATCH LINE

66 H.P.

HGL

4 MTD TELEPHONE

178+32 24" INLET (S)

179+45 24" INLET (N)

EX. GROUND LINE

EX. E

G76.13 Gr Change

S = 0.00488

S = 0.004

677.01 GR. CHANGE

672.34 GR. CHANGE

670.22 EX. GR. CHANGE

16" OIL LINE (STEEL)

177+00

177+14

177+30

177+38 ±

177+51

178+90.41 B.C.

178+94.50 END OF BRIDGE

179+44.50

678.23

182+00

HYDRAULIC DATA
Q = 4700 cfs
V = 26 fps

BRIDGE B=34' D=8'-6"
SEE SHEET 21

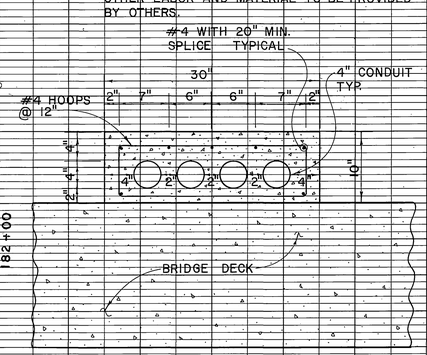
TRANS. B=34'
D=VARIES 10' TO 11'
SEE SHEET 25

CONC. RECT. CHANNEL B=34', D=10'
SEE SHEET 25

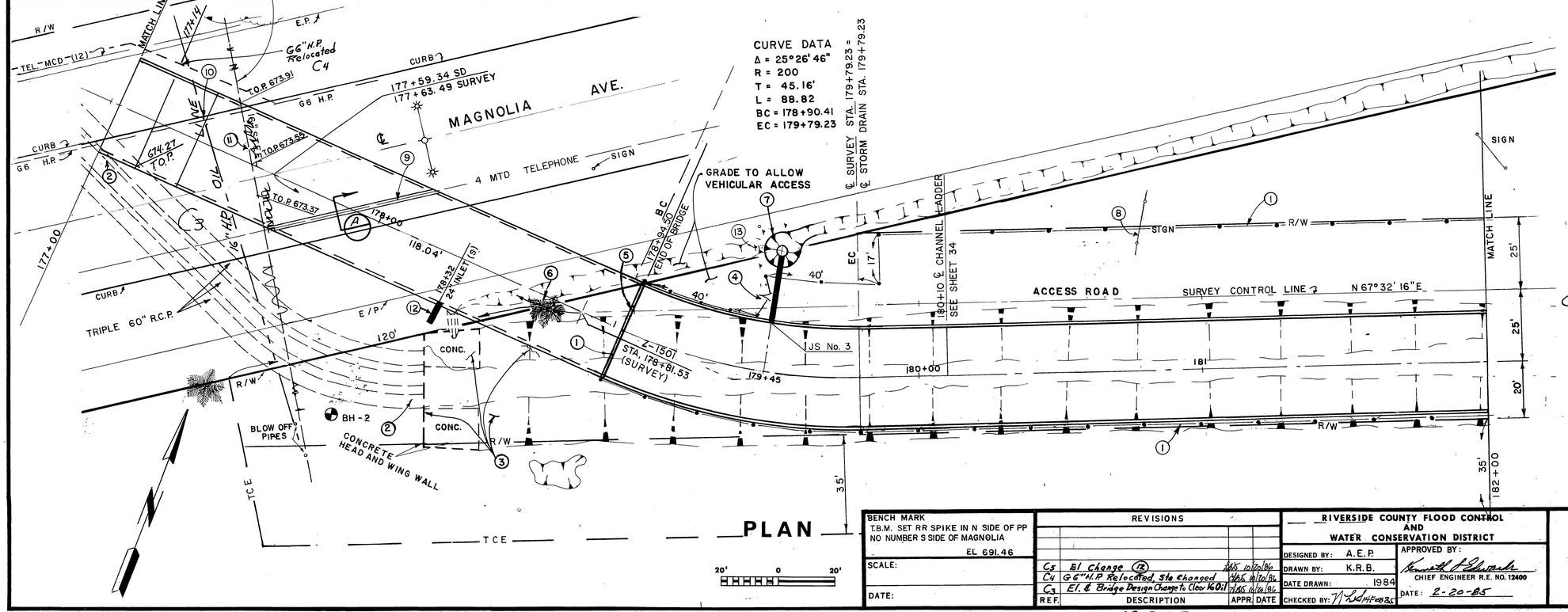
CAUTION!! NOTIFY MEL DURLEY 213-428-3319, 48 HOURS IN ADVANCE OF EXCAVATION NEAR 16" HIGH PRESSURE OIL LINE.

PROFILE

NOTE: CONTRACTOR TO PROVIDE REINFORCEMENT ONLY FOR TELEPHONE ENCASEMENT. ALL OTHER LABOR AND MATERIAL TO BE PROVIDED BY OTHERS.



SECTION (A)
TELEPHONE ENCASEMENT
N.T.S.



PLAN

20' 0 20'

(1) 6' CHAIN LINK FENCE

(2) REMOVE INTERFERRING PORTIONS AND BULKHEAD ALL REMAINING SECTIONS OF 60" RCP SALVAGE REMOVED RCP TO DISTRICT AS DIRECTED BY ENGINEER.

(3) REMOVE HEADWALL STRUCTURE AND BACKFILL ALL UNUSED PORTIONS OF EXISTING CHANNEL.

(4) 14' DOUBLE DRIVE GATE STD. M80i.

(5) FOR PARAPET DETAILS SEE SHEET 21 & 25.

(6) REMOVE PALM TREE

(7) INLET-TYPE X, V=5', 24'-24" RCP 2000D SEE DETAILS SHEETS 27,

(8) SIGN TO BE RELOCATED BY OTHERS.

(9) TELEPHONE TO BE RELOCATED BY OTHERS TO TOP OF BRIDGE DECK. CONTRACTOR TO PROVIDE AND PLACE REINFORCING STEEL ONLY AS SHOWN OVER BRIDGE. COORDINATE WITH PACIFIC TELEPHONE. SEE SPECIFICATIONS.

(10) GAS LINE TO BE RELOCATED BY OTHERS.

(11) PROTECT 16" OIL LINE.

(12) 8'-24" RCP 2000D, J.S. NO. 3 INVERT EL. ~~672.50~~ 672.00 S=0.01. PLACE CONC. BULKHEAD.

(13) INSTALL GUIDE MARKERS AS DIRECTED.

INDEXED - CD

BENCH MARK
T.B.M. SET RR SPIKE IN N SIDE OF PP NO NUMBER S SIDE OF MAGNOLIA
EL 691.46

SCALE:

DATE:

REF.	REVISIONS DESCRIPTION	APPR.	DATE
C5	El Change (12)	MS	10/24/84
C4	G6" H.P. Relocated, Sta Changed	MS	10/24/84
C3	El. & Bridge Design Change To Clear 16" Oil	MS	10/24/84

AS BUILT

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: A.E.P.
DRAWN BY: K.R.B.
DATE DRAWN: 1984
CHECKED BY: [illegible]

APPROVED BY: Kenneth A. Edwards
CHIEF ENGINEER R.E. NO. 12400
DATE: 2-20-85

ARLINGTON CHANNEL STAGE II

STA. 177+00. TO STA. 182+00

1970 STORM DRAIN BOND ISSUE PROJECT S-8

PROJECT NO. 1-0-020
DRAWING NO. 1-391
SHEET NO. 3 OF 64

D-606

NOTE: * CONTRACTOR SHALL PROTECT IN PLACE ALL UTILITIES CROSSING OR PARALLELING THE STORM DRAIN, UNLESS OTHERWISE NOTED.

182 | 183 | 184 | 185+00 | 186 | 187

695 / 690 / 685 / 680 / 675

MATCH LINE

C. BUCHANAN ST.

M.H. NO. 87

SS 8" CAST IRON (9) R. 688.40

(12) (9) G2 W12 (9) TEL (8)

EX. GROUND LINE

H.G.L.

EX. F.L.

(4) W16 24" STEEL CASING

SS24

678.23

678.43

678.37 TOP OF CASING

678.79 GR. CHANGE

679.53 GR. CHANGE

680.71

SS 24

S = 0.004

S = 0.00493

S = 0.0056

L_3 = 50' L_2 = 50' L_1 = 50'

STA. 182+59 42" RCP INLETS (5)

182+00 | 182+50 | 183+40 | 183+90 | 184+40 | 184+90 | 187+00

HYDRAULIC DATA
Q = 4640 cfs
V = 23 fps

TRANS. B=34' D=VARIES | BRIDGE B=34' D=8' | TRANS. CH 329 | CONC. TRAP. CHANNEL B=10' D=10' Z=1½:1

SEE SHEET 22

PROFILE

Z-1502 STA. 182+89.48

A.C. BERM

SS24

C BUCHANAN

SS8 G2 W12

M.H. NO. 87

SIGN

16 CMP

(1) R/W

(2) STA. 182+00

C_G

20'

(3) TRIPLE 60" RCP

SS8

(6) (5) (4) 24" 1/4" W. STEEL CASING

42" RCP

EX. CBC (DWY)

(1) (11) CONCRETE HEADWALL & WING LEADS, GUARD RAIL

TCE

SIGNAL

TRANSFORMERS

A.C. DWY

18" I.P.

EX. CURB

G 2

20" STEEL CASING

SS12

28" STEEL CASING

W12

SIGNAL

TRANSFORMERS

20"STEEL CASING

16"011

16" FOUR CORNERS PIPE LINE

--4"S

S.L.

T

E

182+00

184+00

MATCH LINE

CHANNEL LADDER SEE SHEET 34

185+00 ℄

SS 24

BH-3

STA. 184+00

SURVEY CONTROL LINE

TRANS. CH 329

Santa Ana Watershed Authority & Member Agencies Installed, 2900' of V.C.P. & 2500' of 18" V.C.P. 60' North of AT & SFe RR. Beginning 1675' East of Pierce St. Encroachment Permit No. 1-0-020-729 Aug. 27 1982

ACCESS ROAD

N 67° 32' 16" E

STA. 186+00

SWITCH

TCE

185+50 | 186+50

A.T. & S.F. R.R.

A.T. & S.F. R.R.

MATCH LINE

187+00

25' / 46' / 10' / 24' / 95' / 50' / 120'

20' / 35'

PLAN

(1) 6' CHAIN LINK FENCE.
(2) 14' DBL. DRIVE GATE STD. M 801.
(3) REMOVE EX. 60" CULVERTS, CHANNEL LINING, HEADWALL & SALVAGE PIPE TO DISTRICT.
(4) 42" RCP INLET FOR DETAILS SEE SHEET 27.
(5) JUNCTION STRUCTURE NO. 1, A=78°30', B=42" ELEV. R=680.89, ELEV. S=680.50,
(6) REMOVE EX. INLET STRUCTURES.
(7) ~~12" WATER LINE TO BE RELOCATED BY OTHERS.~~ Not there
(8) TELEPHONE TO BE RELOCATED BY OTHERS.
(9) PROTECT IN PLACE
(10) REMOVE AND REPLACE REFLECTORS, AS REQ'D.
(11) REMOVE GUARD RAIL AND SALVAGE TO CITY. SEE SPECIFICATIONS.
(12) SEE PARAPET DETAIL SHEET 22 & 25.

INDEXED-CD

BENCH MARK
T.B.M. SET CHISELED BOX N END ISLAND AT BUCHANAN AT RR X-ING APPROX. 200' S OF MAGNOLIA. EL 694.28

SCALE:

DATE:

REF.	DESCRIPTION	APPR.	DATE
CG	14 Gates Moved As Shown	CBD	12/20/86
Cs	Note (7) Changed	CBD	12/20/86

REVISIONS

AS BUILT

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: A.E.P.
DRAWN BY: K.R.B.
DATE DRAWN: 1984
CHECKED BY: [illegible]

APPROVED BY: Kenneth L. Edwards
CHIEF ENGINEER R.E. NO. 12400
DATE: 2-20-85

ARLINGTON CHANNEL STAGE II

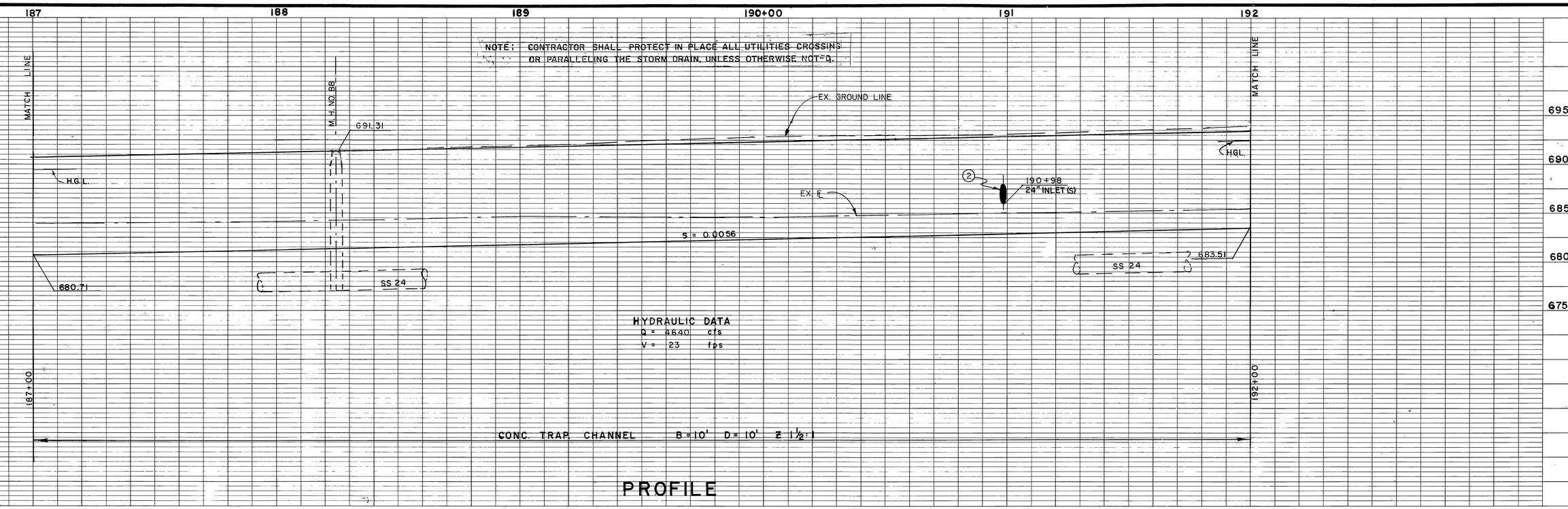
STA. 182+00 TO 187+00

1970 STORM DRAIN BOND ISSUE PROJECT S-8

PROJECT NO. 1-0-020
DRAWING NO. 1-391
SHEET NO. 4 OF 64

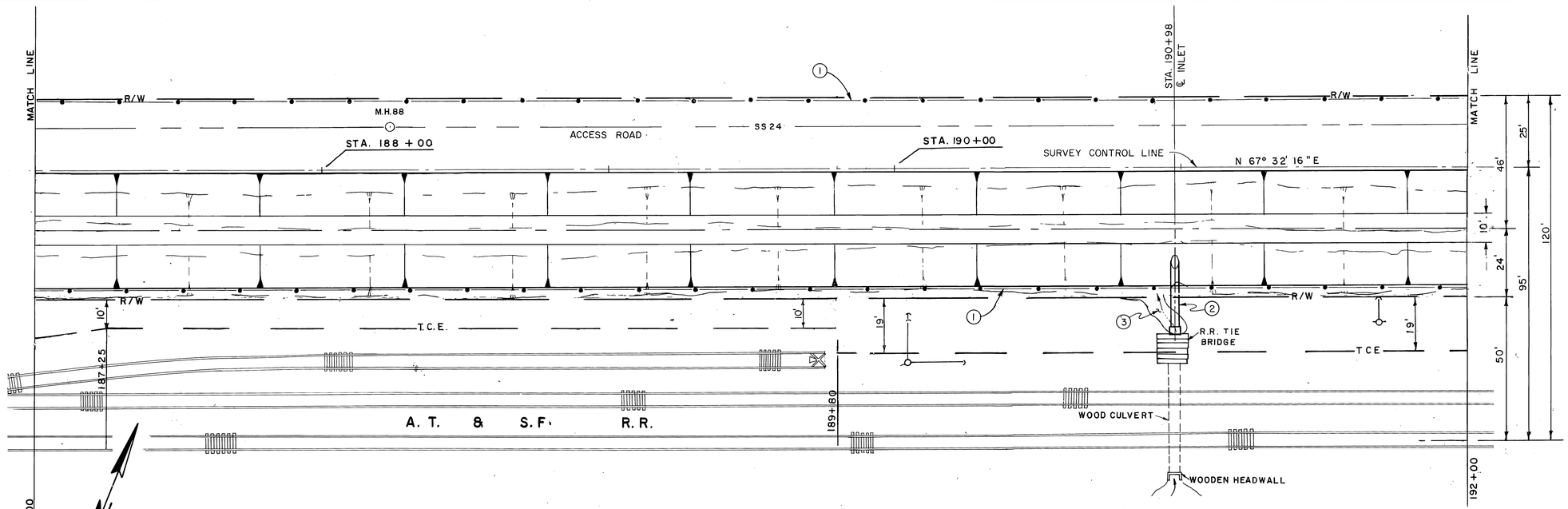
D-606

NOTE: CONTRACTOR SHALL PROTECT IN PLACE ALL UTILITIES CROSSING OR PARALLELING THE STORM DRAIN, UNLESS OTHERWISE NOTED.



HYDRAULIC DATA
Q = 4640 cfs
V = 23 fps

PROFILE



1. 6' CHAIN LINK FENCE.
2. SEE INLET DETAILS SHEET 27.
3. FILL AND GRADE ERODED AREA TO MEET EX. GROUND (TYP.).

PLAN

20' 0 20'

INDEXED-CO

BENCH MARK T.B.M. SET CHISELED BOX N. END ISLAND AT BUCHANAN AT RR X-ING APPROX. 200' S OF MAGNOLIA.
EL 694.28

SCALE:

DATE:

REVISIONS

REF.	DESCRIPTION	APPR.	DATE
	No Change		

AS BUILT

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: A.E.P.
DRAWN BY: K.R.B.
DATE DRAWN: 1984
CHECKED BY: 14 FEB 85

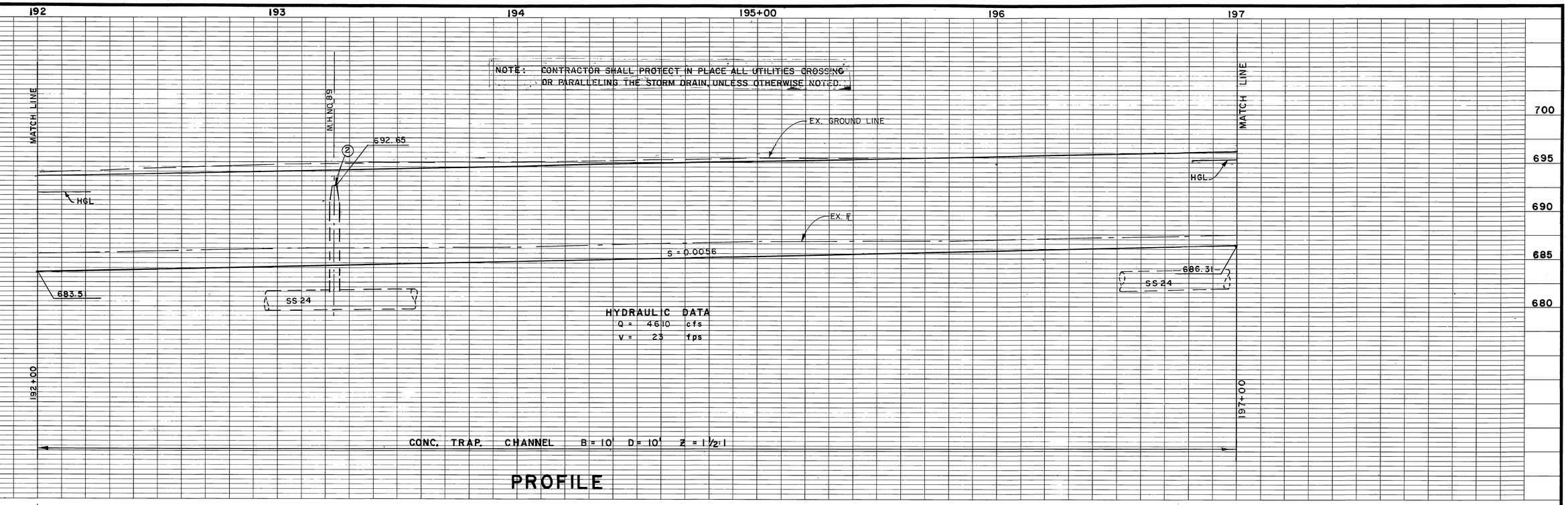
APPROVED BY: Kenneth Edwards
CHIEF ENGINEER R.E. NO. 12400
DATE: 2-20-85

ARLINGTON CHANNEL
STAGE II
STA. 187+00 TO 192+00
1970 STORM DRAIN BOND ISSUE PROJECT S-8

PROJECT NO. 1-0-020
DRAWING NO. 1-391
SHEET NO. 5 OF 64

D-606

NOTE: CONTRACTOR SHALL PROTECT IN PLACE ALL UTILITIES CROSSING OR PARALLELING THE STORM DRAIN, UNLESS OTHERWISE NOTED.



HYDRAULIC DATA
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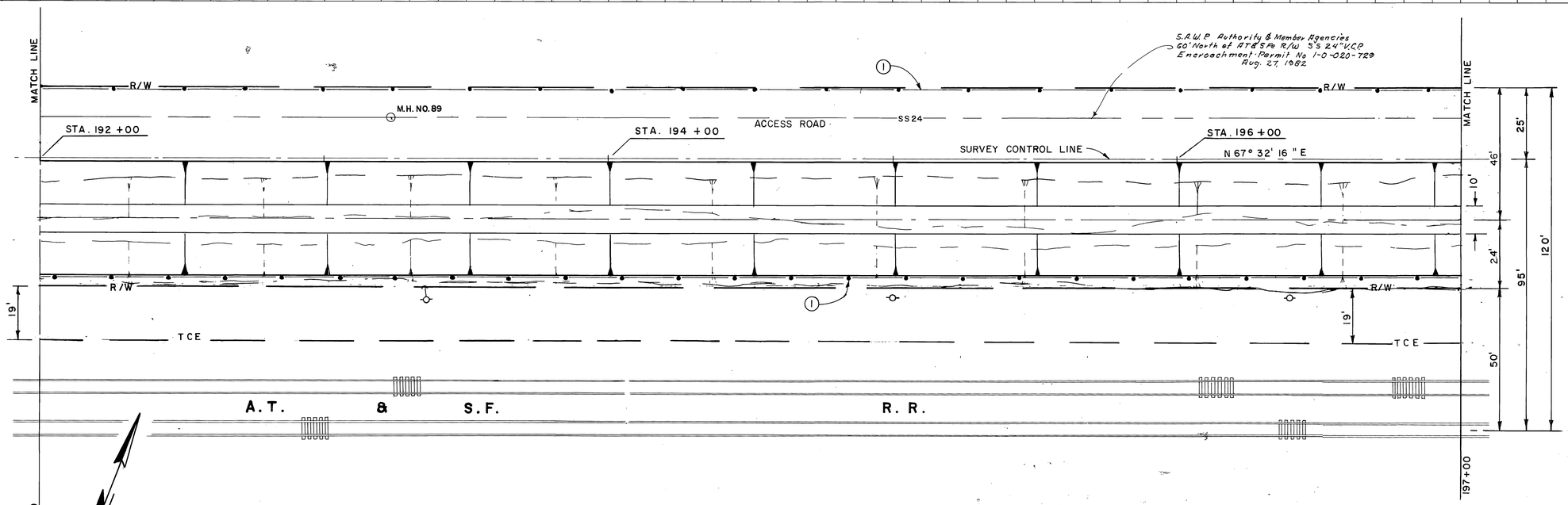
V = 23 fps

PROFILE



1. 6' CHAIN LINK FENCE.
2. M.H. TO BE ADJUSTED BY OTHERS.

PLAN

20' 0 20'

BENCH MARK
T.B.M. SET RR SPIKE IN N SIDE PP NO NUMBER, 5TH POLE E OF BUCHANAN N OF RR TRACKS ON S SIDE OF DIRT CH

SCALE: EL 694.69

DATE:

REVISIONS			
REF.	DESCRIPTION	APPR.	DATE
	No Change		

AS BUILT

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: A.E.P.
DRAWN BY: K.R.B.
DATE DRAWN: 1984
CHECKED BY: [illegible] DATE: 2-20-85

APPROVED BY: Kenneth J. Edwards
CHIEF ENGINEER R.E. NO. 12400
DATE: 2-20-85

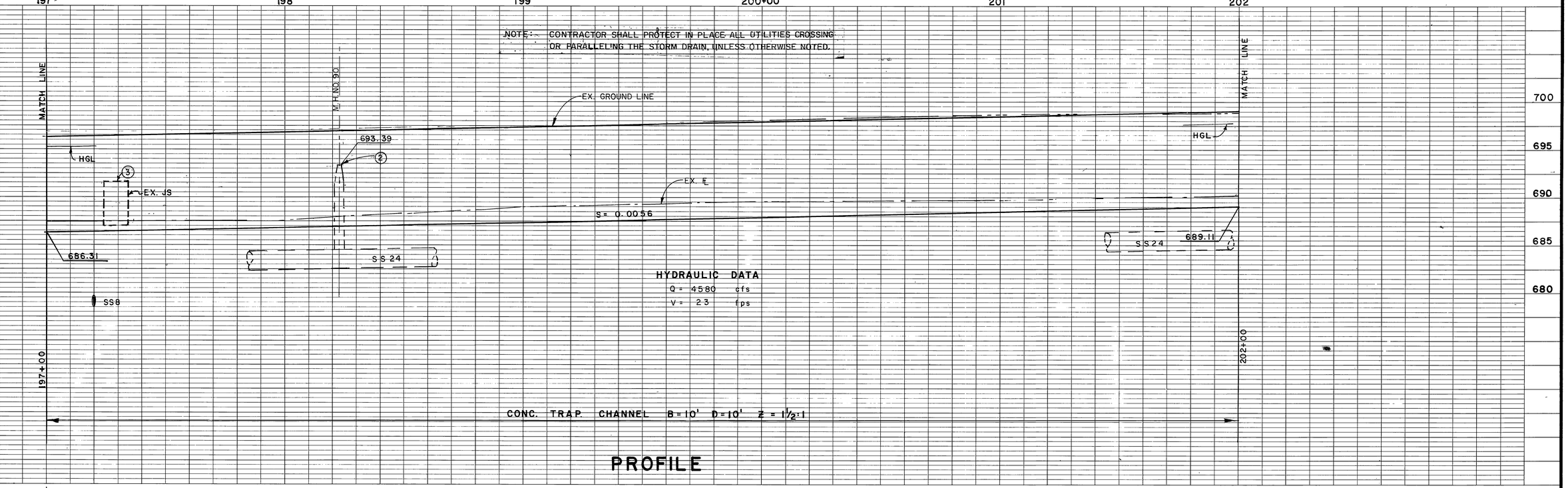
ARLINGTON CHANNEL
STAGE II
STA. 192+00 TO 197+00
1970 STORM DRAIN BOND ISSUE PROJECT S-8

PROJECT NO. 1-0-020
DRAWING NO. 1-391
SHEET NO. 6 OF 64

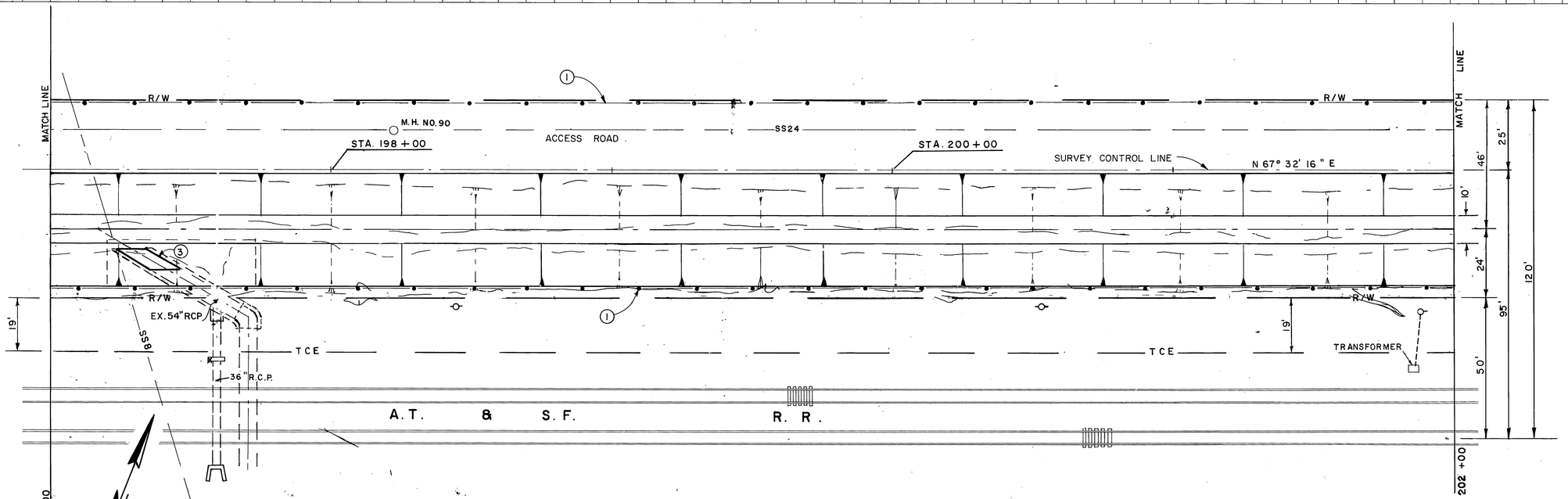
INDEXED-CD

D-606

NOTE: CONTRACTOR SHALL PROTECT IN PLACE ALL UTILITIES CROSSING OR PARALLELING THE STORM DRAIN, UNLESS OTHERWISE NOTED.



PROFILE



PLAN

20' 0 20'

① 6' CHAIN LINK FENCE.
② M.H. TO BE ADJUSTED BY OTHERS.
③ MODIFY EX. JUNCTION STRUCTURE TO MEET CHANNEL LINING AS REQ'D. & DIRECTED.

BENCH MARK T.B.M. SET RR SPIKE IN N SIDE PP436 APPROX. 600' W OF PIERCE N SIDE RR TRACKS.
EL 702.24

SCALE:

DATE:

REVISIONS			
REF.	DESCRIPTION	APPR.	DATE
	No Change		

AS BUILT

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: A.E.P.
DRAWN BY: K.R.B.
DATE DRAWN: 1984
CHECKED BY: [illegible] 14FEB85

APPROVED BY: Kenneth P. Edwards
CHIEF ENGINEER R.E. NO. 12400
DATE: 2-20-85

ARLINGTON CHANNEL STAGE II

STA. 197+00 TO 202+00

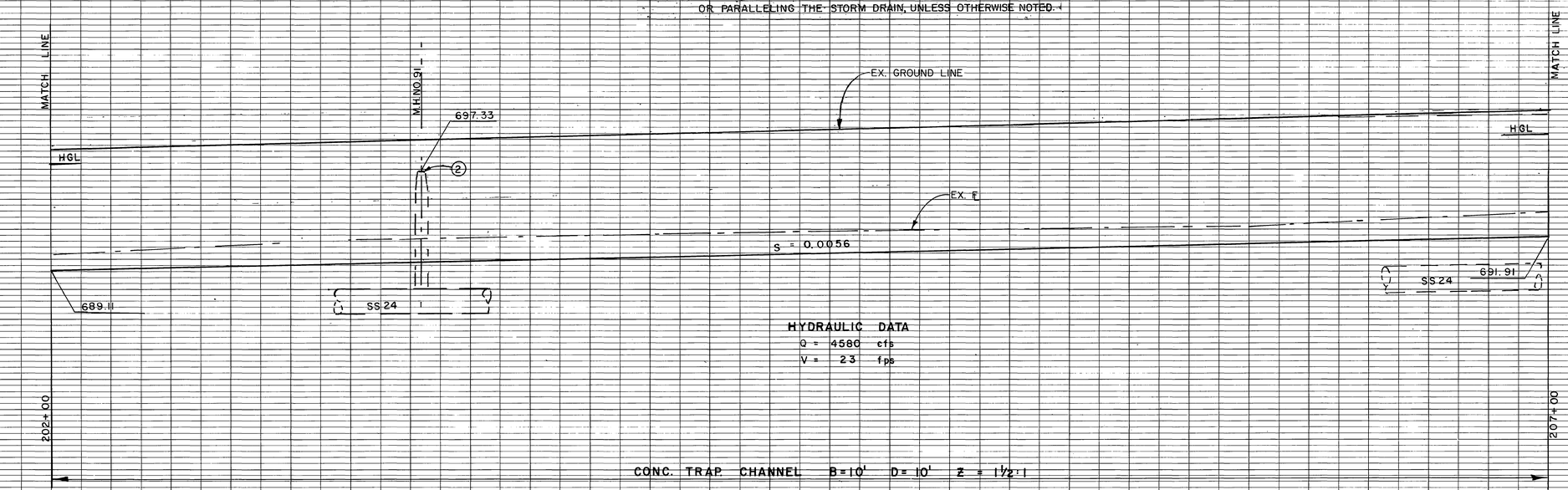
1970 STORM DRAIN BOND ISSUE PROJECT S-8

PROJECT NO. 1-0-020
DRAWING NO. 1-391
SHEET NO. 7 OF 64

INDEXED - CB

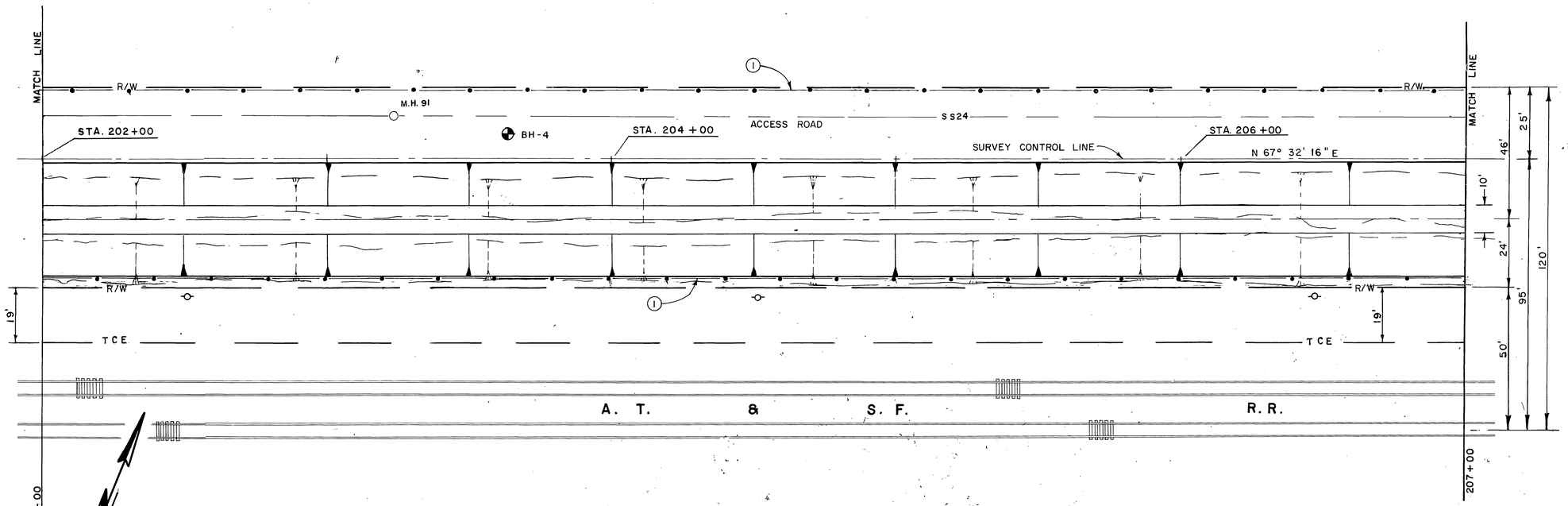
D-606

NOTE: CONTRACTOR SHALL PROTECT IN PLACE ALL UTILITIES CROSSING OR PARALLELING THE STORM DRAIN, UNLESS OTHERWISE NOTED.



HYDRAULIC DATA
Q = 4580 cfs
V = 23 fps

PROFILE



① 6' CHAIN LINK FENCE.
② MANHOLE TO BE ADJUSTED BY OTHERS.

PLAN

20' 0 20'

BENCH MARK TBM SET RR SPIKE IN N SIDE PP 436 APPROX 600' W OF PIERCE N SIDE RR TRACKS.
EL 702.24

SCALE:

DATE:

REVISIONS			
REF.	DESCRIPTION	APPR.	DATE
	No Change		

AS BUILT

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: A.E.P
DRAWN BY: K.R.B.
DATE DRAWN: 1984
CHECKED BY: 11/12/85

APPROVED BY:
CHIEF ENGINEER R.E. NO. 12400
DATE: 2-20-85

ARLINGTON CHANNEL
STAGE II
STA. 202+00 TO 207+00
1970 STORM DRAIN BOND ISSUE PROJECT S-8

INDEXED CD

PROJECT NO. 1-0-020
DRAWING NO. 1-391
SHEET NO. 8 OF 64

D-606

NOTE: CONTRACTOR SHALL PROTECT IN PLACE ALL UTILITIES CROSSING OR PARALLELING THE STORM DRAIN, UNLESS OTHERWISE NOTED.

MATCH LINE

M.H. NO. 92

701.82

EX. GROUND LINE

EX. F.

HGL

S = 0.0056

S = 0.0895

S = 0.004

S = 0.003

S = 0.00648

S = 0.0025

S = 0.004

691.91

692.36 GR. CHANGE

SS 24

685.94 GR. CHANGE

694.90 TOP 30" GAS

696.56 GR. CHANGE

696.74 GR. CHANGE

T-18" STEEL CASING

210+11.50 39" INLET(S)

693.34 T.P.

697.48 GR. CHANGE

697.33 GR. CHANGE

697.54

15" SEWER

HYDRAULIC DATA
Q = 4580 cfs
V = 20 fps

207+00 | 207+80 | 208+20 | 209+74 | 209+94 | 210+14 | 210+34 | 211+25 | 211+45 | 211+65 | 211+85 | 212+00

L=20' 1 | L=20' 2 | L=20' 3 | L=20' 3 | L=20' 2 | L=20' 1

CONC. TRAP. CHANNEL B=10' D=10' Z=1½ | TRANS. B=VAR. D=VAR Z=1½ | CONC. TRAP. CHANNEL B=20' D=8' Z=1½ | TRANS. CH 329 | BRIDGE B=36' D=6.5' | TRANS. CH 329 | CONC. TRAP. CHANNEL B=20', D=8', Z=1½

SEE SHEET NO. 23

PROFILE

CAUTION: NOTIFY FRANK LAFLORE 714-845-2617, 48 HOURS IN ADVANCE OF EXCAVATION NEAR 30" H.P. GAS LINE

MATCH LINE | R/W | WARNING PIPE SIGN | M.H. 92 | STA. 208+00 | SURVEY CONTROL LINE N 67° 32' 16" E | SS24 | ACCESS ROAD | BH-5 | STA. 210+00 | Z-1503 STA. 210+74.76 | OVER HEAD POWER LINE | 20' | CONC. | 46' | 10' | 24' | 19' | T.C.E. | 50' | 120' | 95' | 25'

G-30 TEXAS LINE 2000 | POLES | GAS BLOW OFF (NO. 1770) | TRANSFORMER | R.R. SIGNAL | A. T. & S. F. R.R. | TELEPHONE 18" STEEL CASING

PIERCE ST. | EX. C.B.G.7 | 16" I.D. 3/16 STL. CASING | CONC. DRIVE | SS15 | TRIPLE 60" CONC. PIPE | EX. CURB | G2 | W12 | R.R. SIGNAL | CONC. DRIVE | CONC. SIDEWALK | 36" STL. CASING | BLOCK WALL | 211+83 Ladder | MATCH LINE | 212+00

207+00

16" FOUR CORNERS PIPE LINE

20' 0 20'

PLAN

1. 6' CHAIN LINK FENCE.
2. 14' DBL. DRIVE GATE, M801.
3. REMOVE EXISTING CONCRETE.
4. SEE 30" H.P. GAS PROTECTION DETAILS SHEET 26.
5. SEE PIERCE ST. CROSSING DETAILS SHEET 23.
6. REMOVE EX. CONC. HEADWALLS, WINGWALLS & 60" R.C.P. & SALVAGE PIPE TO DISTRICT..
7. SEE INLET DETAILS SHEET 27.
8. WATER BLOW OFF TO BE RELOCATED BY OTHERS. PLUG EXISTING.
9. GAS LINE TO BE RELOCATED BY OTHERS.
10. WATER LINE TO BE RELOCATED BY OTHERS.
11. MANHOLE TO BE ADJUSTED BY OTHERS.
12. SEE PARAPET DETAIL SHEET 23 & 25.
13. REMOVE GUARD RAIL AND SALVAGE TO CITY.
14. SIGN TO BE RELOCATED BY OTHERS.

INDEXED C9

BENCH MARK TBM.
CHISELED BOX 50' N OF RR X-ING AT PIERCE
EL 707.53

SCALE:

DATE:

REF.	DESCRIPTION	APPR.	DATE
C9	W12 Elevation Changed	DWS	10/10/86
C8	Ladder Added At Sta 211+83	DWS	10/10/86

REVISIONS

AS BUILT

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: A.E.P.
DRAWN BY: K.R.B.
DATE DRAWN: 1984
CHECKED BY: [illegible]

APPROVED BY: Kenneth L. Edwards
CHIEF ENGINEER R.E. NO. 12400
DATE: 2-20-85

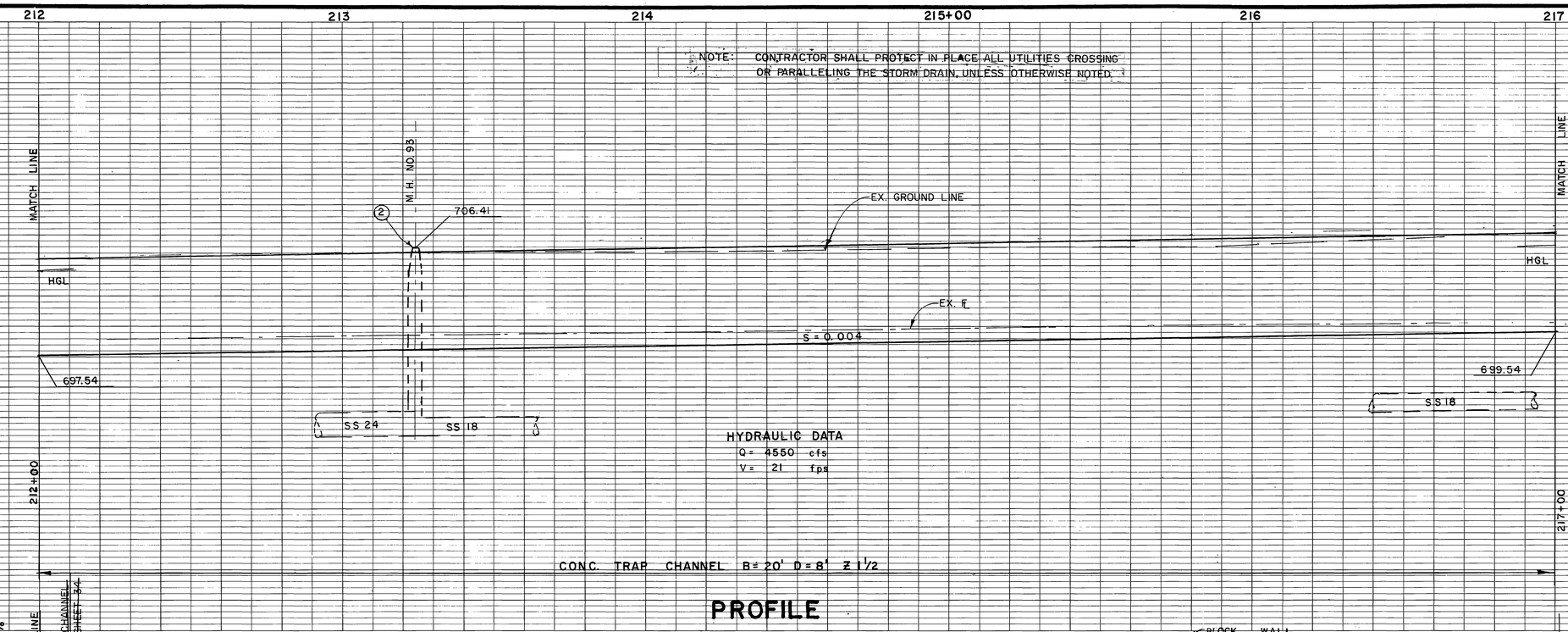
ARLINGTON CHANNEL
STAGE II
STA. 207+00 TO 212+00
1970 STORM DRAIN BOND ISSUE PROJECT S-8

PROJECT NO. 1-0-020
DRAWING NO. 1-391
SHEET NO. 9 OF 64

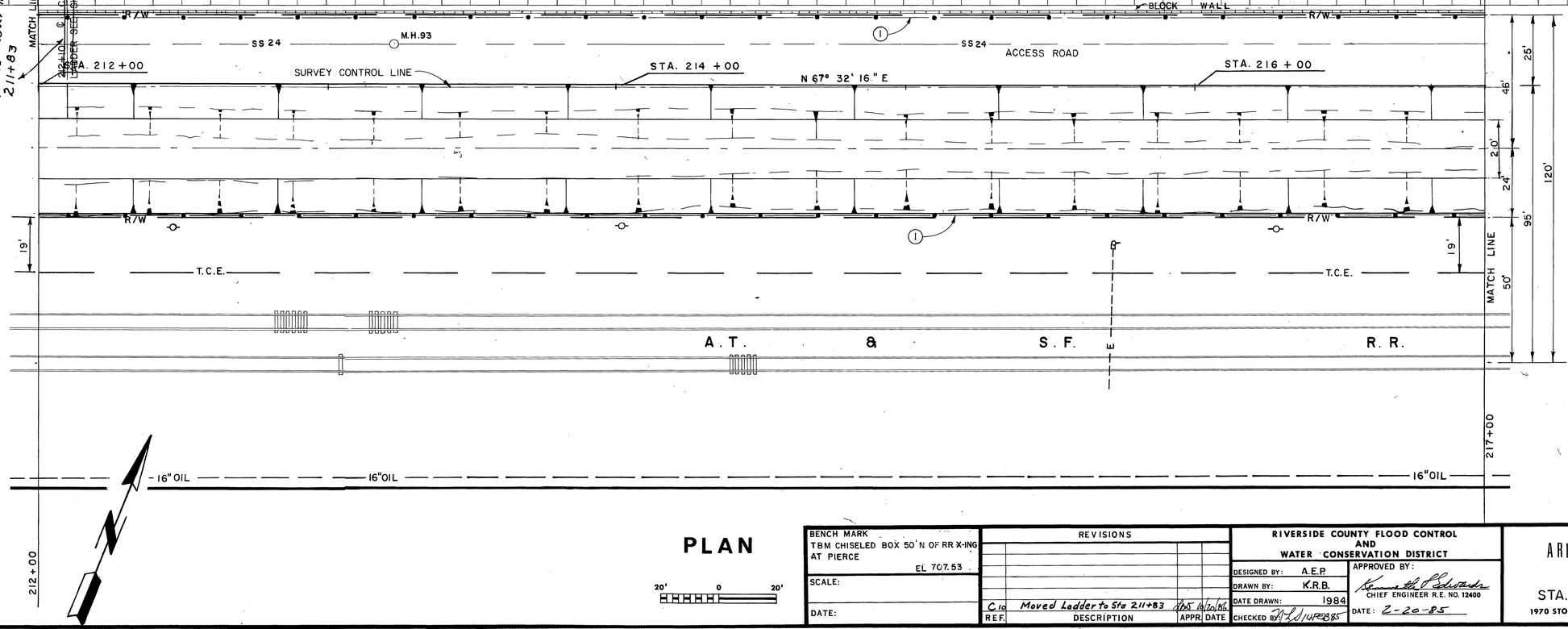
D-606

NOTE: CONTRACTOR SHALL PROTECT IN PLACE ALL UTILITIES CROSSING OR PARALLELING THE STORM DRAIN, UNLESS OTHERWISE NOTED.

PROFILE



PLAN



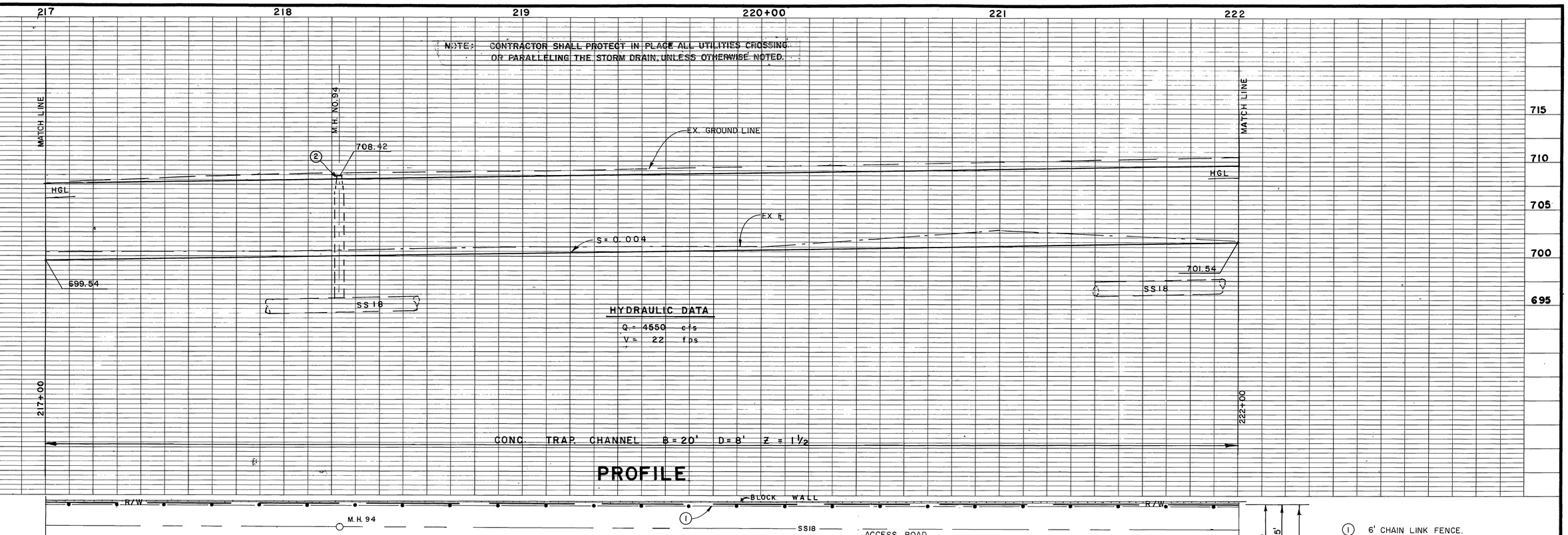
BENCH MARK	REVISIONS	RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	ARLINGTON CHANNEL STAGE II	PROJECT NO. 1-0-020
TBM CHISELED BOX 50' N OF RR X-ING AT PIERCE EL 707.53		DESIGNED BY: A.E.P. DRAWN BY: K.R.B. DATE DRAWN: 1984 CHECKED BY:	STA. 212+00 TO 217+00	DRAWING NO. 1-391
SCALE:		APPROVED BY: Kenneth O Edwards CHIEF ENGINEER R.E. NO. 12400 DATE: 2-20-85	1970 STORM DRAIN BOND ISSUE PROJECT $-8	SHEET NO. 10 OF 64
DATE:	C10 Moved Ladder to Sta 211+83 AMS 10/20/84 (REF. / DESCRIPTION / APPR. / DATE)			

INDEXED CD

AS BUILT

D-606

NOTE: CONTRACTOR SHALL PROTECT IN PLACE ALL UTILITIES CROSSING OR PARALLELING THE STORM DRAIN, UNLESS OTHERWISE NOTED.



PROFILE

HYDRAULIC DATA
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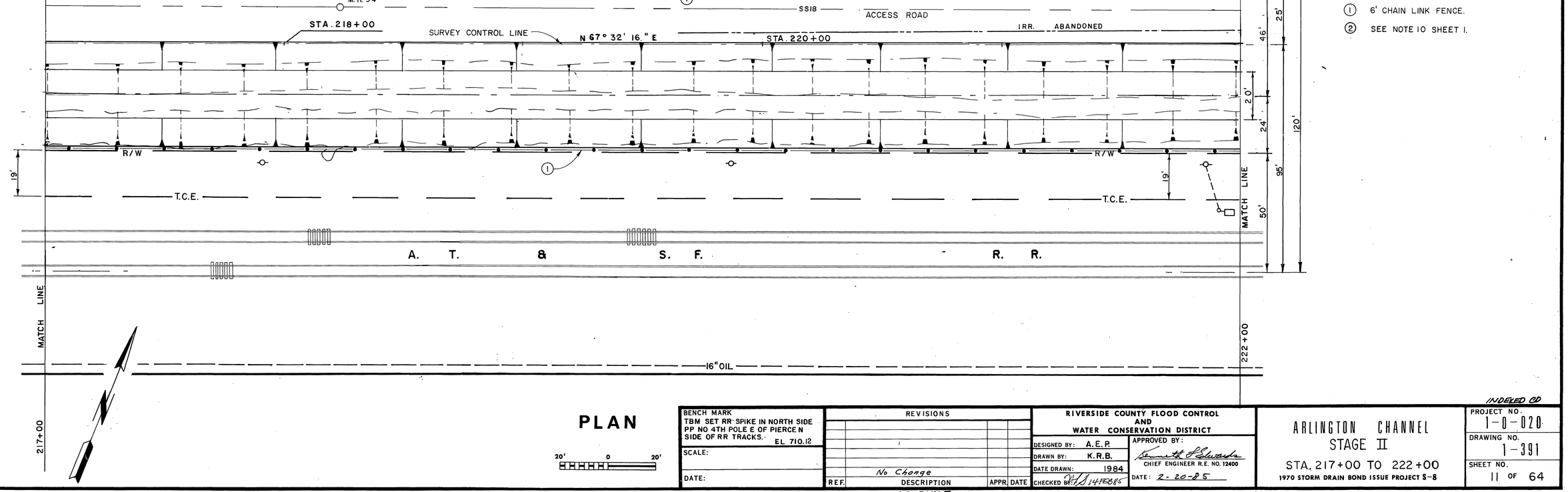
V = 22 fps



PLAN

20' 0 20'

① 6' CHAIN LINK FENCE.
② SEE NOTE 10 SHEET 1.

BENCH MARK
TBM SET RR SPIKE IN NORTH SIDE PP NO 4TH POLE E OF PIERCE N SIDE OF RR TRACKS. EL 710.12

SCALE:

DATE:

REVISIONS			
REF.	DESCRIPTION	APPR.	DATE
	No Change		

AS BUILT

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: A.E.P.
DRAWN BY: K.R.B.
DATE DRAWN: 1984
CHECKED BY: 14 FEB 85

APPROVED BY: Kenneth L. Edwards
CHIEF ENGINEER R.E. NO. 12400
DATE: 2-20-85

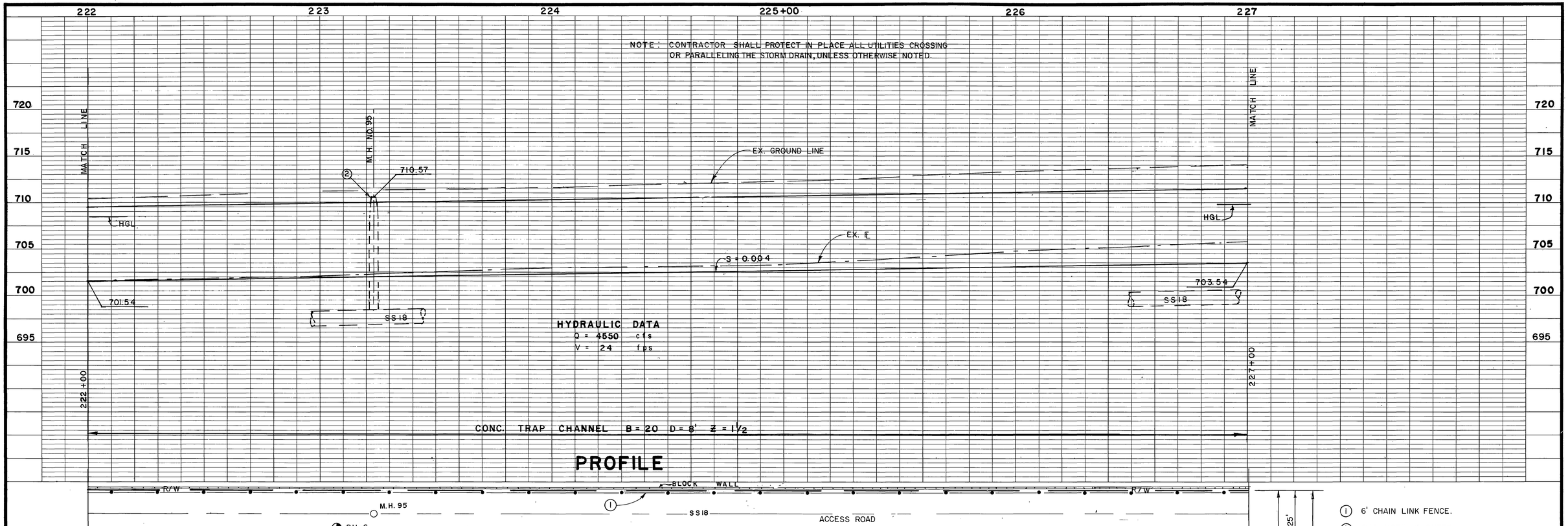
ARLINGTON CHANNEL
STAGE II
STA. 217+00 TO 222+00
1970 STORM DRAIN BOND ISSUE PROJECT S-8

INDEXED CD

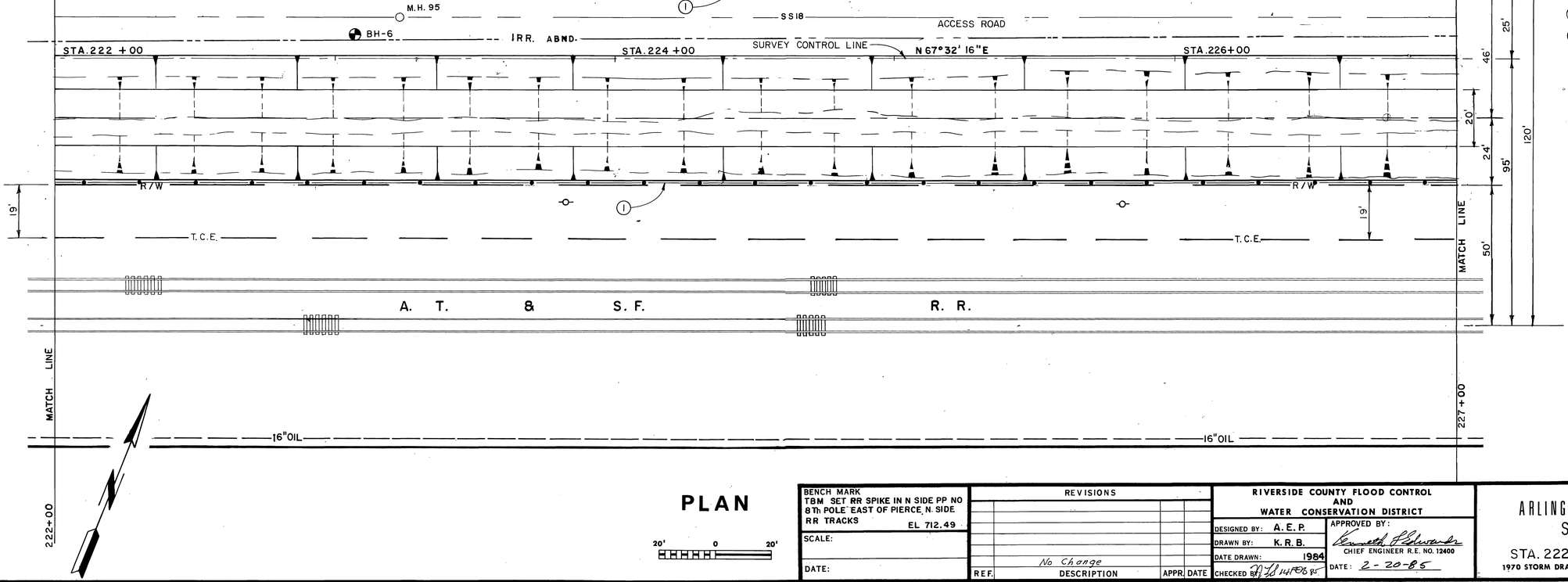
PROJECT NO. 1-0-020
DRAWING NO. 1-391
SHEET NO. 11 OF 64

D-606

NOTE: CONTRACTOR SHALL PROTECT IN PLACE ALL UTILITIES CROSSING OR PARALLELING THE STORM DRAIN, UNLESS OTHERWISE NOTED.



PROFILE



PLAN

20' 0 20'

① 6' CHAIN LINK FENCE.
② SEE NOTE 10, SHEET 1.

BENCH MARK
TBM SET RR SPIKE IN N SIDE PP NO 8Th POLE EAST OF PIERCE N. SIDE RR TRACKS EL 712.49

SCALE:

DATE:

REVISIONS			
REF.	DESCRIPTION	APPR.	DATE
	No Change		

AS BUILT

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: A. E. P.
DRAWN BY: K. R. B.
DATE DRAWN: 1984
CHECKED BY: [illegible] 14 FEB 85

APPROVED BY:
Kenneth P. Schwarz
CHIEF ENGINEER R.E. NO. 12400
DATE: 2-20-85

INDEXED CD

ARLINGTON CHANNEL STAGE II

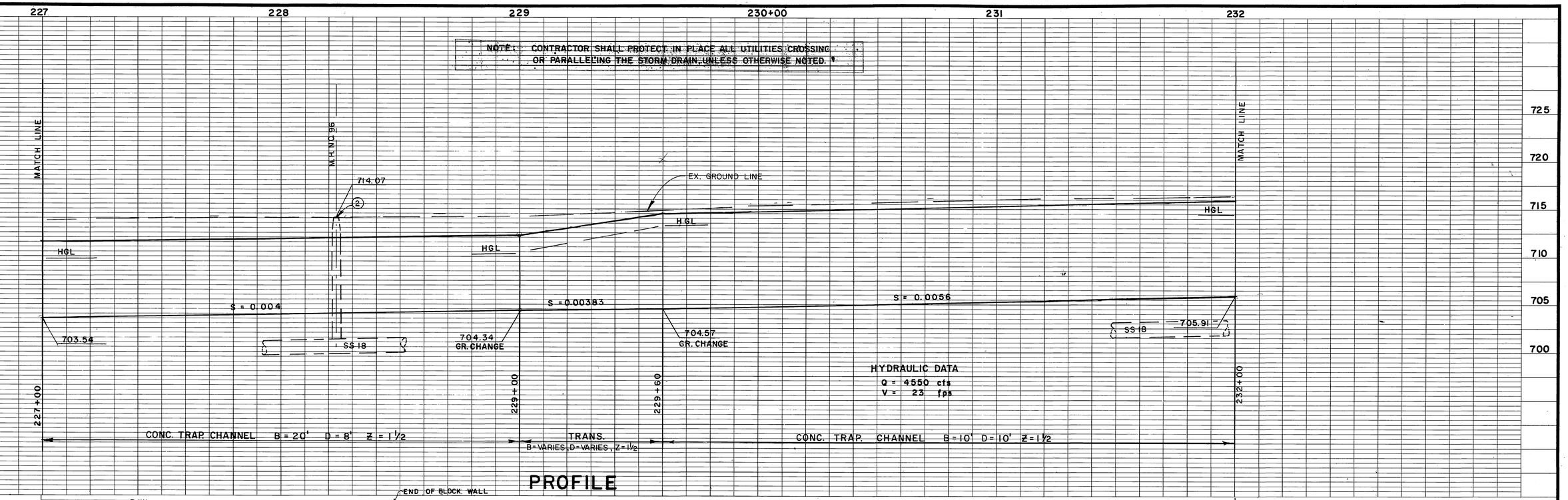
STA. 222+00 TO 227+00
1970 STORM DRAIN BOND ISSUE PROJECT S-8

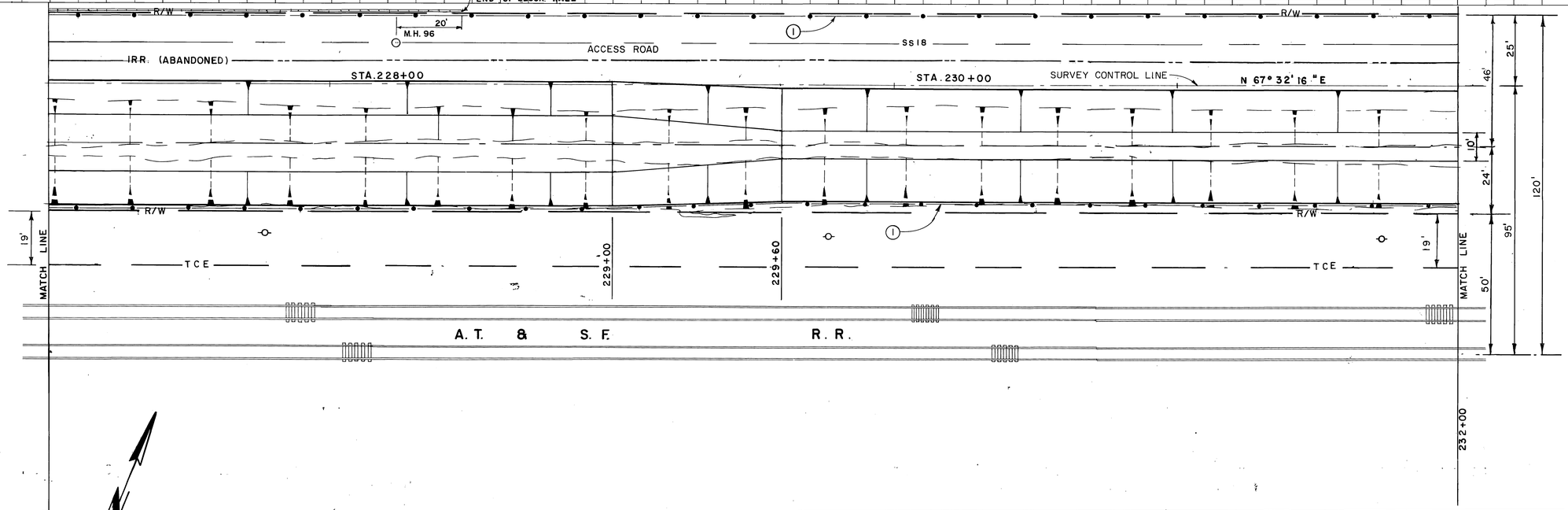
PROJECT NO. 1-0-020
DRAWING NO. 1-391
SHEET NO. 12 OF 64

D-606

NOTE: CONTRACTOR SHALL PROTECT IN PLACE ALL UTILITIES CROSSING OR PARALLELING THE STORM DRAIN UNLESS OTHERWISE NOTED.

PROFILE





① 6' CHAIN LINK FENCE.

② MANHOLE TO BE ADJUSTED BY OTHERS.

PLAN

20' 0 20'

BENCH MARK
TBM SET RR SPIKE IN N SIDE PP N NO. 5TH POLE W OF FILLMORE N SIDE OF RR TRACKS. EL 717.71

SCALE:

DATE:

REVISIONS

REF.	DESCRIPTION	APPR.	DATE
	No Change		

AS BUILT

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: A.E.P.
DRAWN BY: K.R.B.
DATE DRAWN: 1984
CHECKED BY: [illegible]

APPROVED BY:
Kenneth Edwards
CHIEF ENGINEER R.E. NO. 12400
DATE: 2-20-85

ARLINGTON CHANNEL
STAGE II
STA. 227+00 TO 232+00
1970 STORM DRAIN BOND ISSUE PROJECT S-8

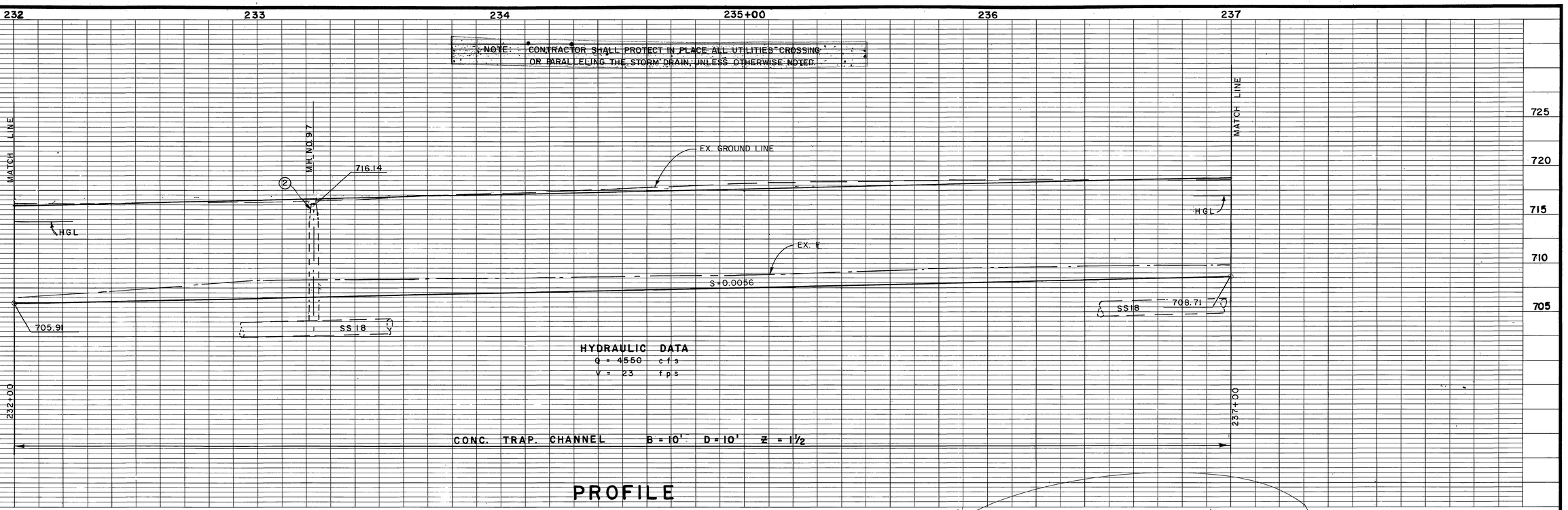
INDEXED CD

PROJECT NO. 1-0-020
DRAWING NO. 1-391
SHEET NO. 13 OF 64

D-606

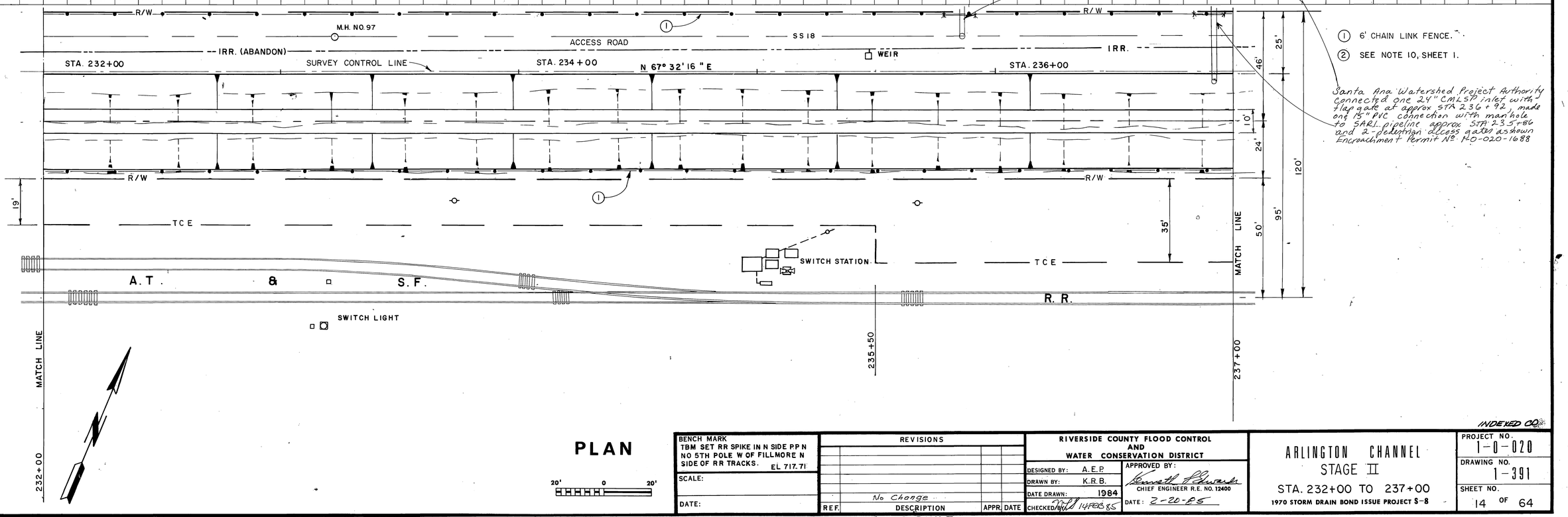
NOTE: CONTRACTOR SHALL PROTECT IN PLACE ALL UTILITIES CROSSING OR PARALLELING THE STORM DRAIN, UNLESS OTHERWISE NOTED.

PROFILE



HYDRAULIC DATA
Q = 4550 cfs
V = 23 fps

CONC. TRAP. CHANNEL B = 10' D = 10' Z = 1½



1. 6' CHAIN LINK FENCE.
2. SEE NOTE 10, SHEET 1.

Santa Ana Watershed Project Authority connected one 24" CMLSP inlet with flap gate at approx STA 236+92, made one 15" PVC connection with manhole to SARI pipeline approx STA 235+86 and 2-pedestrian access gates as shown Encroachment Permit No. 20-020-1688

PLAN

20' 0 20'

BENCH MARK	TBM SET RR SPIKE IN N SIDE P.P. N NO 5TH POLE W OF FILLMORE N SIDE OF RR TRACKS. EL 717.71
SCALE:	
DATE:	

REVISIONS

REF.	DESCRIPTION	APPR.	DATE
	No Change		
	AS BUILT		14FEB85

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: A.E.P.
DRAWN BY: K.R.B.
DATE DRAWN: 1984
CHECKED BY:

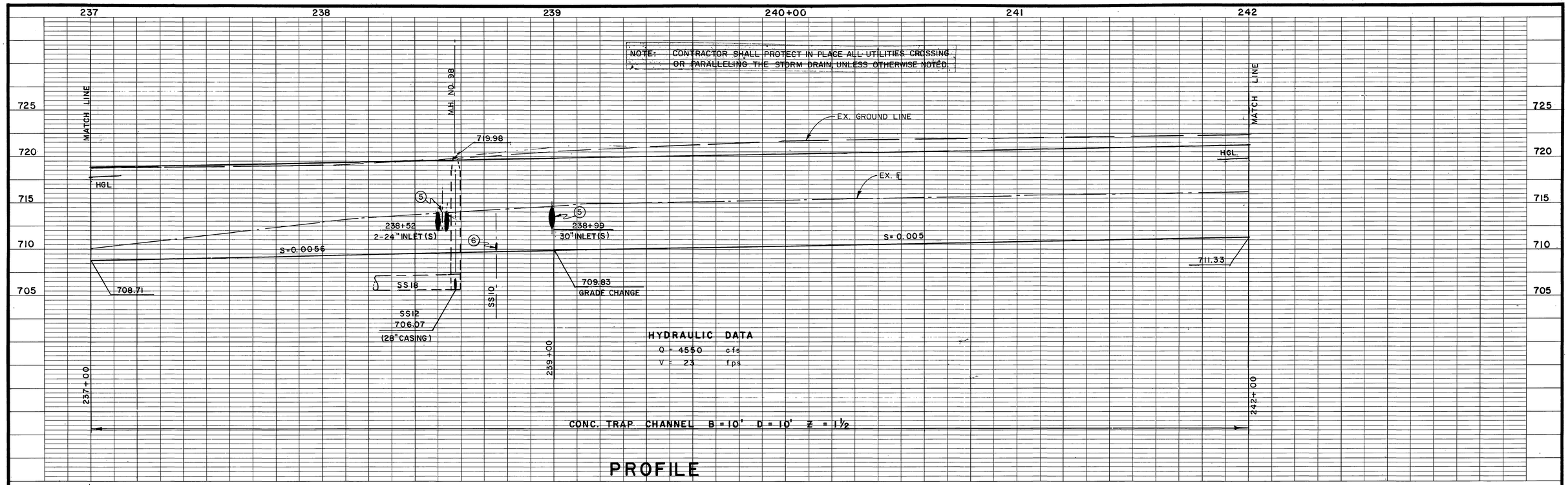
APPROVED BY: Kenneth L. Edwards
CHIEF ENGINEER R.E. NO. 12400
DATE: 2-20-85

ARLINGTON CHANNEL
STAGE II
STA. 232+00 TO 237+00
1970 STORM DRAIN BOND ISSUE PROJECT $-8

PROJECT NO. 1-0-020
DRAWING NO. 1-391
SHEET NO. 14 OF 64

INDEXED 00

D-606



1. 6' CHAIN LINK FENCE.
2. REMOVE EX. CONC. HEAD AND WINGWALLS & 60" RCP & SALVAGE PIPE TO DISTRICT.
3. REMOVE R.R. CMP AND BACKFILL ERODED AREA TO MEET EX. GROUND.
4. REMOVE EX. INLET STRUCTURES AND PIPE.
5. SEE PIPE PROFILE SHEET 28.
6. CONSTRUCT SEWER SIPHON SEE SHEET 24.

INDEXED-CO

BENCH MARK
TBM SET-RR SPIKE IN N SIDE PP N NO 5TH POLE W OF FILLMORE N SIDE OF RR TRACKS. EL 717.71

SCALE:

DATE:

REVISIONS			
REF.	DESCRIPTION	APPR	DATE
C11	Added J.S. No 6 Rc Shown	DHS	10/10/84

AS BUILT

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: A.E.P.
DRAWN BY: K.R.B.
DATE DRAWN: 1984
CHECKED: [illegible] 11/Feb/85

APPROVED BY: Kenneth P. Edwards
CHIEF ENGINEER R.E. NO. 12400
DATE: 2-20-85

ARLINGTON CHANNEL STAGE II

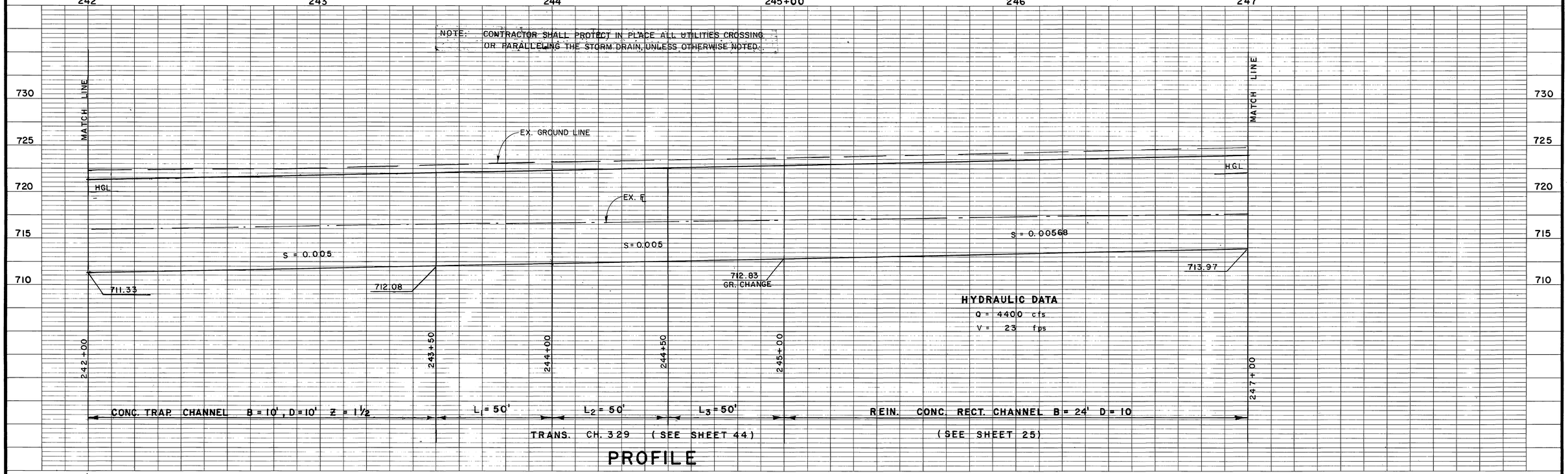
STA. 237+00 TO 242+00

1970 STORM DRAIN BOND ISSUE PROJECT S-8

PROJECT NO. 1-0-020
DRAWING NO. 1-391
SHEET NO. 15 OF 64

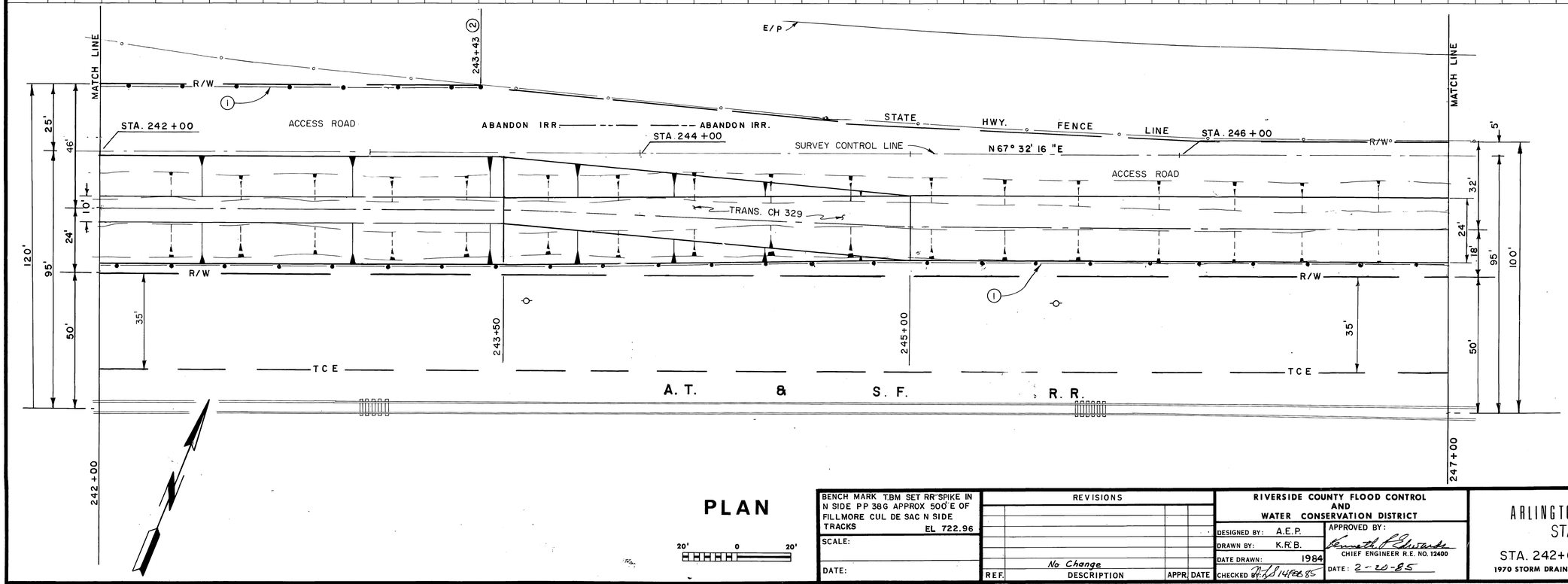
D-606

NOTE: CONTRACTOR SHALL PROTECT IN PLACE ALL UTILITIES CROSSING OR PARALLELING THE STORM DRAIN, UNLESS OTHERWISE NOTED.



HYDRAULIC DATA
Q = 4400 cfs
V = 23 fps

PROFILE



① 6' CHAIN LINK FENCE.
② END 6' CHAIN LINK FENCE AT STATE HWY. FENCE.

PLAN

SCALE: 20' 0 20'

BENCH MARK TBM SET RR SPIKE IN N SIDE PP 386 APPROX 500'E OF FILLMORE CUL DE SAC N SIDE TRACKS EL 722.96

DATE:

REVISIONS			
REF.	DESCRIPTION	APPR.	DATE
	No Change		

AS BUILT

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: A.E.P.
DRAWN BY: K.R.B.
DATE DRAWN: 1984
CHECKED BY: [illegible] 14 Feb 85

APPROVED BY: Kenneth L. Edwards
CHIEF ENGINEER R.E. NO. 12400
DATE: 2-20-85

ARLINGTON CHANNEL STAGE II

STA. 242+00 TO 247+00

1970 STORM DRAIN BOND ISSUE PROJECT S-8

INDEXED-CD

PROJECT NO. 1-0-020
DRAWING NO. 1-391
SHEET NO. 16 OF 64

D-606

247 248 249 250+00 251 252

NOTE: CONTRACTOR SHALL PROTECT IN PLACE ALL UTILITIES CROSSING OR PARALLELING THE STORM DRAIN, UNLESS OTHERWISE NOTED.

MATCH LINE

730 725 720 715 710

EX. GROUND LINE

HGL

EX. FL

S = 0.00568

713.97

716.81

HYDRAULIC DATA
Q = 4400 cfs
V = 25 fps

247+00 252+00

REIN. CONC RECT. CHANNEL B = 24' D = 10'
(SEE SHEET 25)

PROFILE

MATCH LINE

E/P

STA. 248 + 00 STATE HWY. FENCE LINE STA. 250 + 00

R/W R/W N 67° 32' 16" E

ACCESS ROAD

SURVEY CONTROL LINE

252+00± Ladder Rt Side Only

① 6' CHAIN LINK FENCE.

5' 32' 24' 18' 100' 95' 50'

R/W R/W

35' 35'

TCE TCE

A. T. & S. F. R. R.

247+00 252+00

PLAN

20' 0 20'

INDEXED-CD

BENCH MARK:
TBM. SET RR SPIKE IN N SIDE PP376 N OF TRACKS BETWEEN LA SIERRA AVE. AND FILLMORE.
EL. 729.26

SCALE:

DATE:

REVISIONS

REF.	DESCRIPTION	APPR.	DATE
C/2	Added Ladder Rt. Side Only 252+00±		10/21/86

AS BUILT.

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: A.E.P.
DRAWN BY: K.R.B.
DATE DRAWN: 1984
CHECKED BY: 14 FEB 85

APPROVED BY: Kenneth L. Edwards
CHIEF ENGINEER, R.E. NO. 12400
DATE: 2-20-85

ARLINGTON CHANNEL
STAGE II
STA. 247+00 TO 252+00
1970 STORM DRAIN BOND ISSUE PROJECT S-8

PROJECT NO. 1-0-020
DRAWING NO. 1-391
SHEET NO. 17 OF 64

D-606

252 253 254 255+00 256 257

NOTE: CONTRACTOR SHALL PROTECT IN PLACE ALL UTILITIES CROSSING OR PARALLELING THE STORM DRAIN, UNLESS OTHERWISE NOTED.

735 730 725 720 715

MATCH LINE

EX. GROUND LINE

HGL

EX. ℄

S=0.00568

716.81

719.65

HYDRAULIC DATA
Q= 4400 cfs
V= 23 fps

252+00

257+00

REIN. CONC. RECT. CHANNEL B=24', D=10'

(SEE SHEET 25)

PROFILE

MATCH LINE

STA. 252 + 00 R/W STA. 254+00 STATE HWY. FENCE LINE STA. 256+00 R/W

N 67° 32' 16" E

SURVEY CONTROL LINE

ACCESS ROAD

R/W R/W

35' 35'

TCE TCE

A. T. & S. F. R.R.

5' 32' 24' 18' 95' 100' 50'

MATCH LINE

252+00 257+00

① 6' CHAIN LINK FENCE.

② FILL AND GRADE ERODED AREA TO MEET EXISTING GROUND. (TYP).

PLAN

20' 0 20'

BENCH MARK
TBM SET RR SPIKE IN PP 36 G
APPROX 700'W OF LA SIERRA
EL. 733.97

SCALE:

DATE:

REVISIONS

REF.	DESCRIPTION	APPR.	DATE
	No Change		

AS BUILT

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: A.E.P.
DRAWN BY: K.R.B.
DATE DRAWN: 1984
CHECKED BY: [illegible] 1/14/85

APPROVED BY: Kenneth J. Edwards
CHIEF ENGINEER R.E. NO. 12400
DATE: 2-20-85

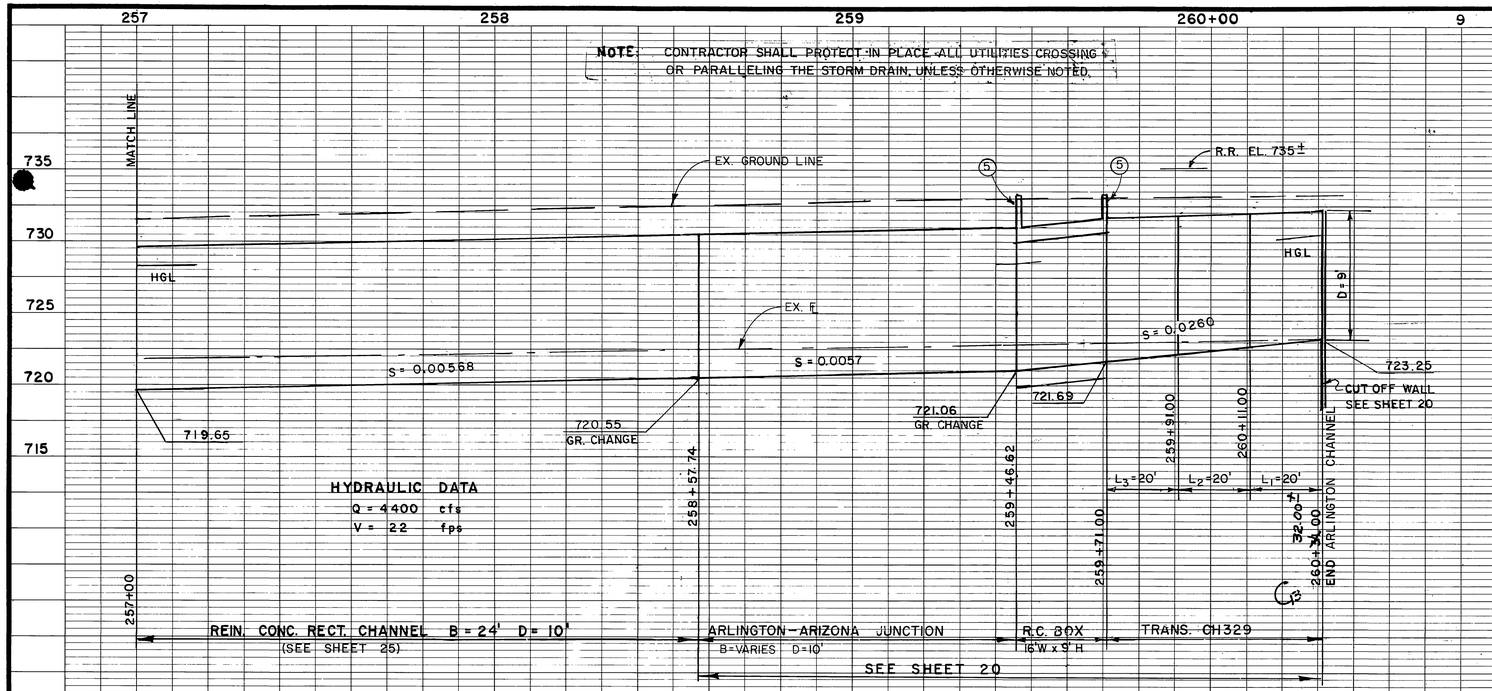
ARLINGTON CHANNEL
STAGE II
STA. 252+00 TO 257+00
1970 STORM DRAIN BOND ISSUE PROJECT S-8

INDEXED-CD

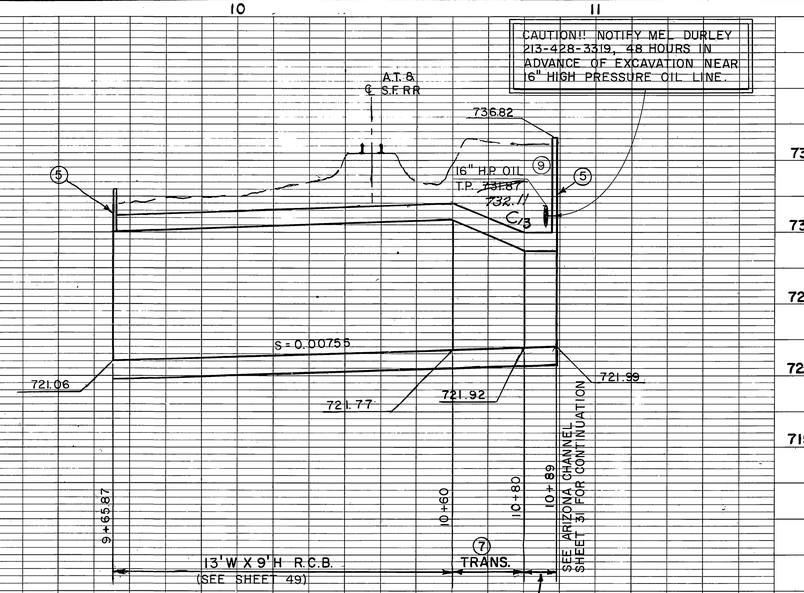
PROJECT NO. 1-0-020
DRAWING NO. 1-391
SHEET NO. 18 OF 64

D-606

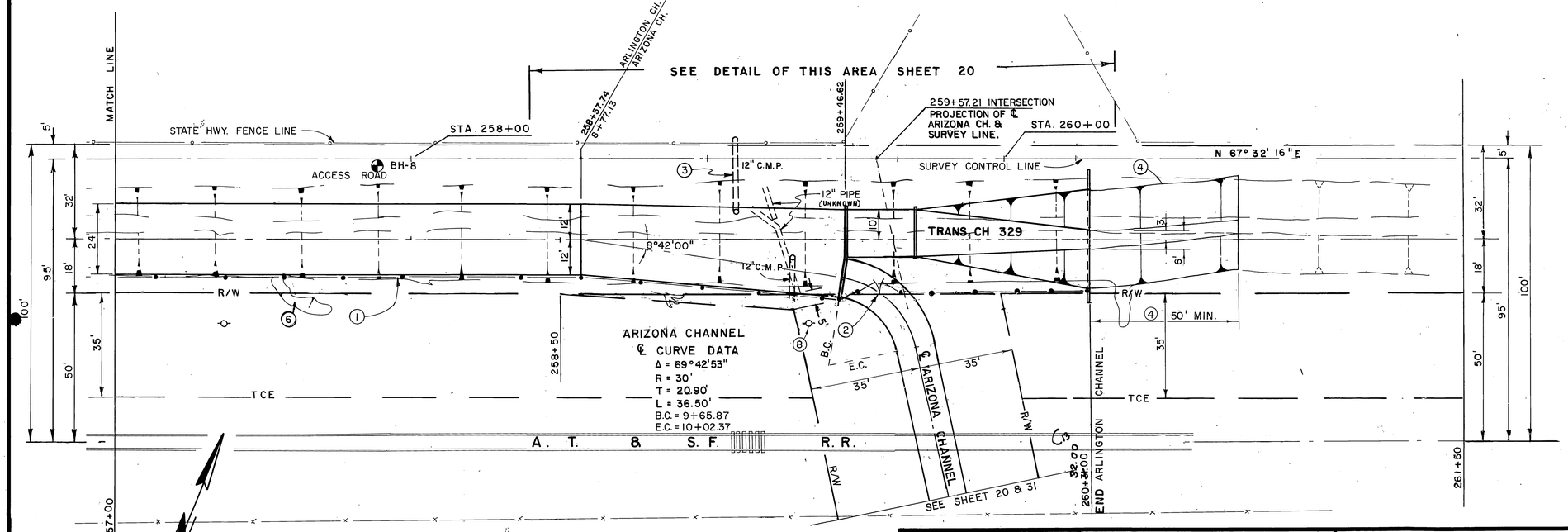
NOTE: CONTRACTOR SHALL PROTECT IN PLACE ALL UTILITIES CROSSING OR PARALLELING THE STORM DRAIN, UNLESS OTHERWISE NOTED.



PROFILE



ARIZONA STREET CHANNEL



PLAN

1. 6' CHAIN LINK FENCE.
2. 14' DOUBLE DRIVE GATE STD. M801.
3. REMOVE EX. 12" PIPE & PLUG.
4. GRADE TO MEET EX. CHANNEL AS DIRECTED.
5. SEE PARAPET DETAIL SHEET 20 & 25.
6. FILL AND GRADE ERODED AREA, TO MEET EXISTING GROUND (TYP).
7. TRANSITION STRUCTURE NO. 2 - WALL & SLAB THICKNESSES SHALL BE THE SAME AS THOSE FOR THE 13'W X 9'H RCB. (SEE SHEET 49)
8. PROTECT IN PLACE.
9. DO NOT BACKFILL BEHIND PARAPET UNTIL ARIZONA CHANNEL TRANSITION CH329 IS IS CONSTRUCTED.

BENCH MARK
TBM SET RR SPIKE IN PP 36 G
APPROX 700' W OF LA SIERRA
EL. 733.97

SCALE:

DATE:

REVISIONS

REF.	DESCRIPTION	APPR.	DATE
C13	Sta. Change As shown & Elev.	MS	10/20/86

AS BUILT

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: A.E.P.
DRAWN BY: K.R.B.
DATE DRAWN: 1984
CHECKED: [illegible]

APPROVED BY: Kenneth J. Edwards
CHIEF ENGINEER R.E. NO. 12400
DATE: 2-20-85

ARLINGTON CHANNEL STAGE II

STA. 257+00 TO 260+31

1970 STORM DRAIN BOND ISSUE PROJECT S-8

PROJECT NO. 1-0-020
DRAWING NO. 1-391
SHEET NO. 19 OF 64

INDEXED CD

D-606

STA. 258+57.74 ARLINGTON CH. = STA. 8+77.13 ARIZONA CH.

STA. 259+46.62

STA. 259+57.21

STA. 259+71

TURN AROUND

STA. 260+32± END ARLINGTON CHANNEL

R/W

SURVEY CONTROL LINE

SEE DETAIL "A"

N 67°32'16" E ℄ ARLINGTON CHANNEL

N 76°14'16" E 109.64' ℄ ARIZONA CHANNEL

16'W x 9'H RCB (SEE SHEET 48)

TRANS. CH329 (SEE SHEET 45)

CUT-OFF WALL

GRADE EX. CHAN. TO MEET NEW CHAN. ALIGNMENT L = 50' MIN.

P.I.

B.C.

E.C.

C14

STA. 258+50

① SEE PARAPET DETAIL SHEET 25

② 6' CHAIN LINK FENCE.

③ 14' DOUBLE DRIVE GATE STD. M801.

④ SEE SPECIAL GATE POST DETAIL FOR GATE POSTS OVER R.C.B. DECK.

CURVE DATA

Δ = 69°42'53"
R = 30'
T = 20.90'
L = 36.50'
BC = 9+65.87
EC = 10+02.37

℄ ARIZONA CHANNEL 13'W x 9'H R.C.B.

C CHANNEL N 34°02'51" W

A. T. & S.F. R.R.

SEE SHEET 49 & 50 FOR BOX SCHEDULE

10+60

RCB TRANS. SEE NOTE ⑦ SHEET 19

16" FOUR CORNERS PIPE LINE

RAILROAD R/W

10+80

17' WIDE x 6'-10" HIGH RCB

10+89

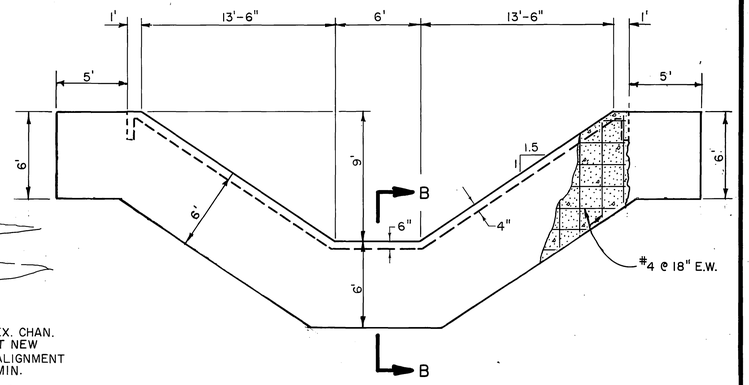
SEE ARIZONA CHANNEL SHEET 31 FOR CONTINUATION

70'

CAUTION!! NOTIFY MEL DURLEY 213-428-3319, 48 HOURS IN ADVANCE OF EXCAVATION NEAR 16" HIGH PRESSURE OIL LINE.

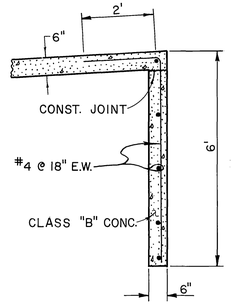
PLAN

10' 0 10'



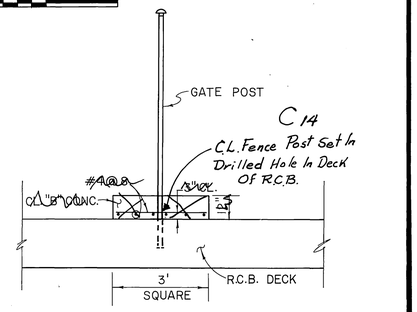
SECTION A–A
CUTOFF WALL DETAIL

5' 0 5'

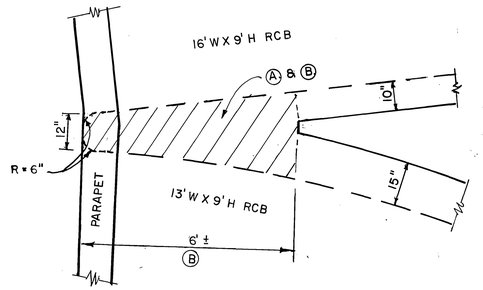


SECTION B–B

2' 0' 2'



SPECIAL GATE POST DETAIL
N.T.S.



Ⓐ THE STEEL SCHEDULE FOR BOTH BOXES SHALL BE USED THROUGH THIS REACH.

Ⓑ BOTH BOXES SHALL BE POURED MONOLITHICALLY THROUGH THIS REACH.

DETAIL "A"
N.T.S.

INDEXED CD

BENCH MARK

REVISIONS			
Cm	Sta 206+31 Change to +31	JDS	11/4/86
Cm	Fence Line Change & Gate Post Detail	JDS	10/20/86
REF.	DESCRIPTION	APPR.	DATE

AS BUILT

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: D.C.P.
DRAWN BY: R.R.S. Kreb
DATE DRAWN: 3-9-84
CHECKED BY: F.J.P.

RECOMMENDED FOR APPROVAL BY: Neal L. Smithsonian
DESIGN ENGINEER R.E. NO. 16757
DATE: 31 FEB 85

APPROVED BY: Kenneth L. Edwards
CHIEF ENGINEER R.E. NO. 12400
DATE: 2-20-85

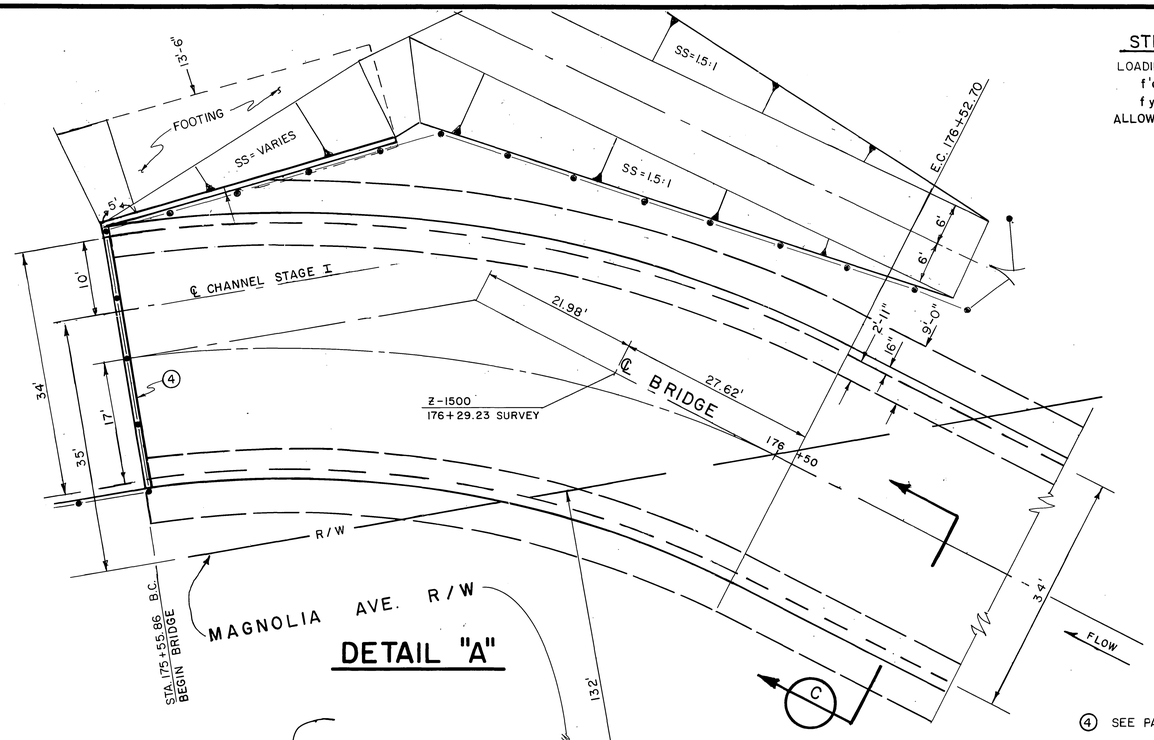
ARLINGTON CHANNEL
STAGE II
ARIZONA CHANNEL
JUNCTION DETAIL
1970 STORM DRAIN BOND ISSUE PROJECT NO. 8-8

PROJECT NO. 1-0-020
DRAWING NO. 1-391
SHEET NO. 20 OF 64

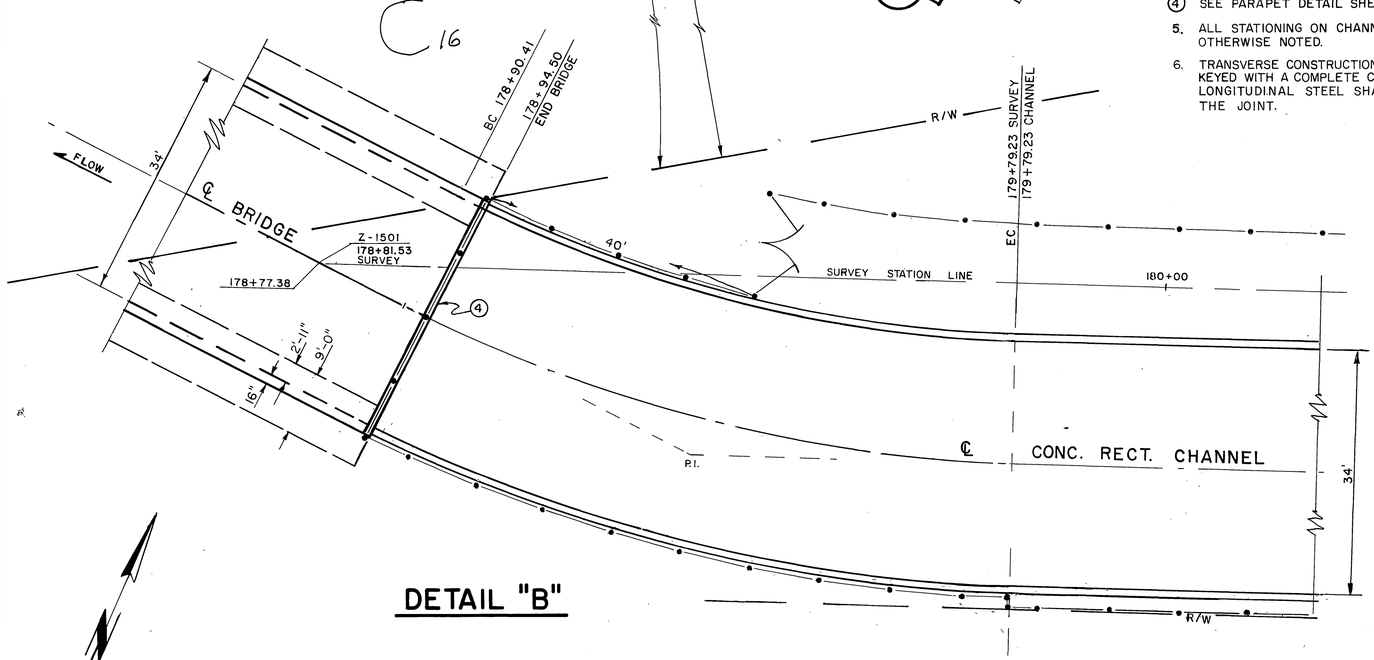
D-606

STRUCTURAL CRITERIA

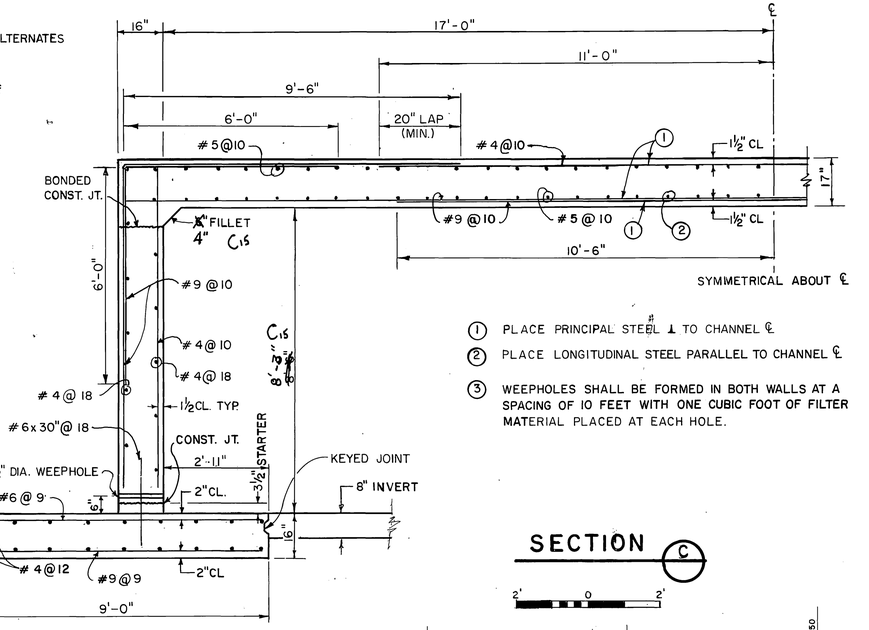
LOADING	=	HS20-44 and ALTERNATES
f'c	=	4000 psi
f y	=	60,000 psi
ALLOWABLE SOIL BEARING = 3000 psf		



DETAIL "A"



DETAIL "B"

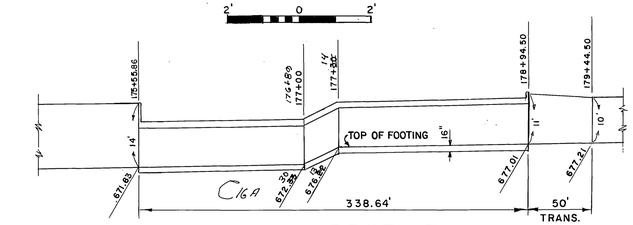


SECTION C

2' 0 2'

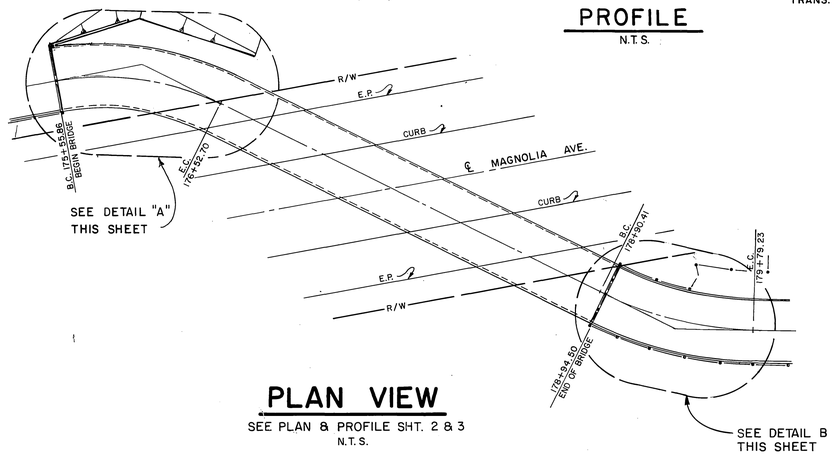
1. PLACE PRINCIPAL STEEL ⊥ TO CHANNEL ℄
2. PLACE LONGITUDINAL STEEL PARALLEL TO CHANNEL ℄
3. WEEPHOLES SHALL BE FORMED IN BOTH WALLS AT A SPACING OF 10 FEET WITH ONE CUBIC FOOT OF FILTER MATERIAL PLACED AT EACH HOLE.

4. SEE PARAPET DETAIL SHEET 25.
5. ALL STATIONING ON CHANNEL UNLESS OTHERWISE NOTED.
6. TRANSVERSE CONSTRUCTION JOINTS SHALL BE BONDED AND KEYED WITH A COMPLETE CURTAIN OF STEEL 3" FROM FACE. LONGITUDINAL STEEL SHALL BE CONTINUOUS THROUGH THE JOINT.



PROFILE

N.T.S.



PLAN VIEW

SEE PLAN & PROFILE SHT. 2 & 3

N.T.S.

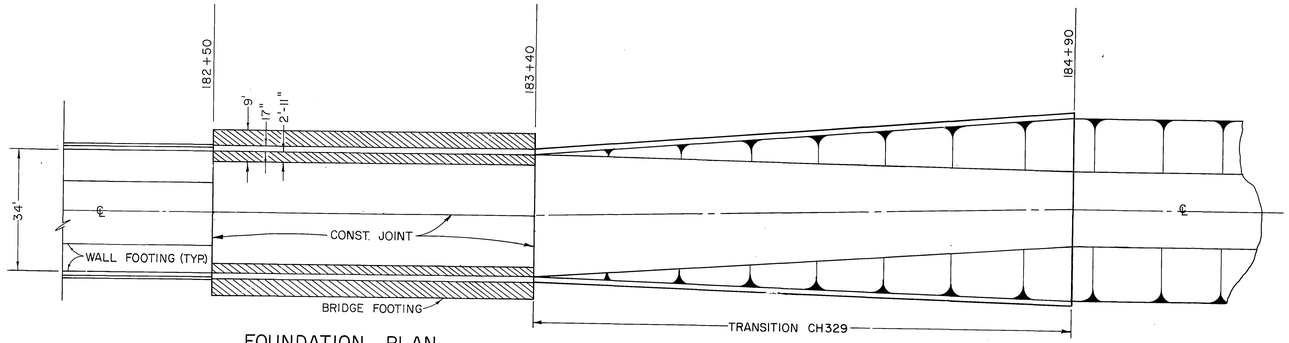
10' 0 10'

INDEXED CD

BENCH MARK	REVISIONS			RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT		ARLINGTON CHANNEL STAGE II	PROJECT NO. 1-0-020
	C16A Profile Elev. Change	0285	10/16/86	DESIGNED BY: A.E.P.	RECOMMENDED FOR APPROVAL: Neal R. Smithammer DESIGN ENGINEER R.E. NO. 16757 DATE: 14 FEB 85	MAGNOLIA AVE. CROSSING	DRAWING NO. 1-391
	C16 Elevations & Bridge Changes See Sh. No. 2	0285	10/16/86	DRAWN BY: K.R.B.	APPROVED BY: Kenneth C. Edwards CHIEF ENGINEER R.E. NO. 12400 DATE: 2-20-85	1970 STORM DRAIN BOND ISSUE PROJECT NO. S-8	SHEET NO. 21 OF 64
	C16 See Section ℄ Changes	0285	10/16/86	DATE DRAWN: 1984			
	REF. DESCRIPTION	APPR.	DATE	CHECKED BY: F.J.P.			

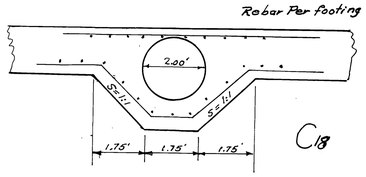
AS BUILT

D-606

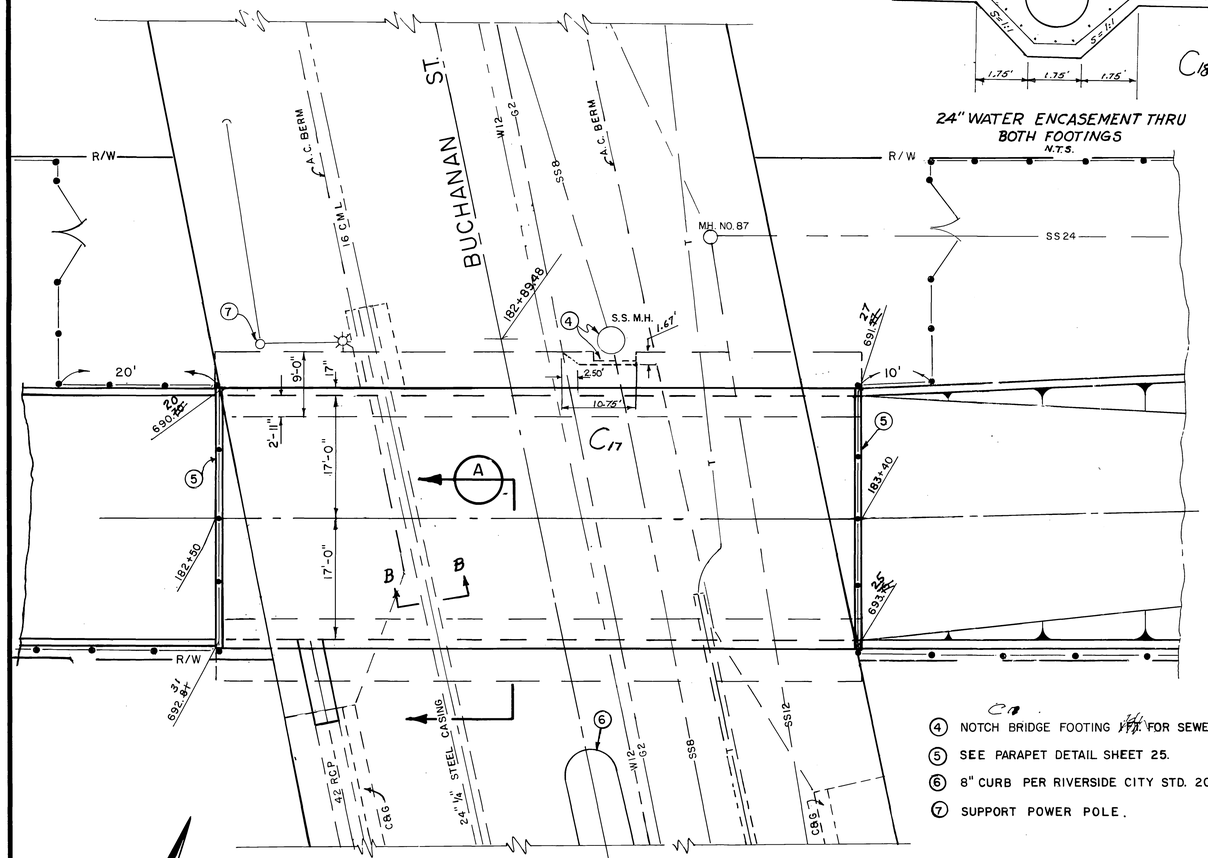


FOUNDATION PLAN

20' 0 20'

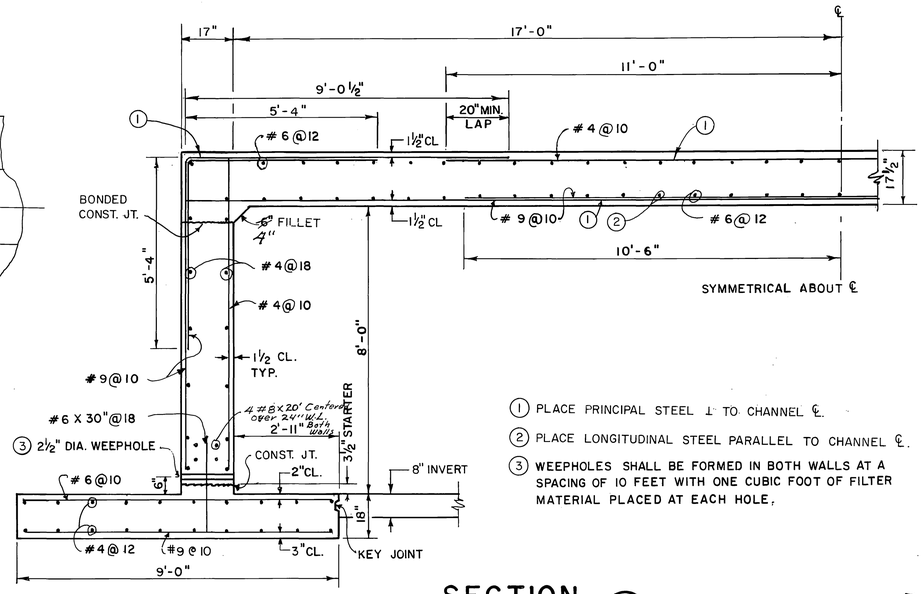


24" WATER ENCASEMENT THRU BOTH FOOTINGS
N.T.S.



PLAN VIEW

10' 0 10'



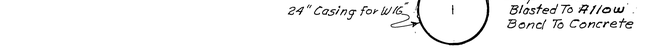
SECTION A

2' 0 2'

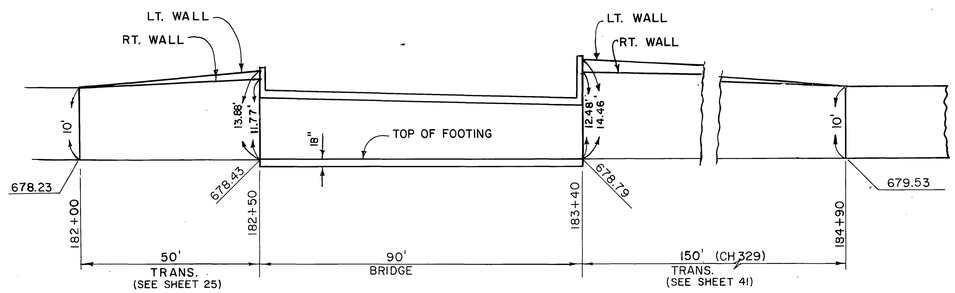
1. PLACE PRINCIPAL STEEL ⊥ TO CHANNEL ℄.
2. PLACE LONGITUDINAL STEEL PARALLEL TO CHANNEL ℄.
3. WEEPHOLES SHALL BE FORMED IN BOTH WALLS AT A SPACING OF 10 FEET WITH ONE CUBIC FOOT OF FILTER MATERIAL PLACED AT EACH HOLE.

STRUCTURAL CRITERIA

LOADING	=	HS 20 - 44 and ALTERNATES
f'c	=	4,000 psi
fy	=	60,000 psi
ALLOWABLE SOIL BEARING	=	3,000 psf



SECTION B-B



PROFILE LEFT AND RIGHT WALLS

VERT. 10' 0 10'

20' 0 20' HORIZ.

C18

4. NOTCH BRIDGE FOOTING ~~VFY.~~ See Change-As Shown FOR SEWER M.H. & PROTECT IN PLACE.
5. SEE PARAPET DETAIL SHEET 25.
6. 8" CURB PER RIVERSIDE CITY STD. 200 TYPE III.
7. SUPPORT POWER POLE.

INDEXED CD

BENCH MARK

REVISIONS			
C18	Added #6 Bars As Shown in Section C Sheet	KRB	11/18/86
C18	Added W24" Conc Encasement	KRB	10/20/86
C17	Change Size of Notch in Bridge Footing	KRB	10/20/86
REF.	DESCRIPTION	APPR	DATE

AS BUILT

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: A.E.P.
DRAWN BY: K.R.B.
DATE DRAWN: 1984
CHECKED BY: F.J.P.

RECOMMENDED FOR APPROVAL BY: Mark L. Smithhisler
DESIGN ENGINEER R.E. NO. 16757
DATE: 14 FEB 85

APPROVED BY: Kenneth L. Edwards
CHIEF ENGINEER R.E. NO. 12400
DATE: 2-20-85

ARLINGTON CHANNEL
STAGE II

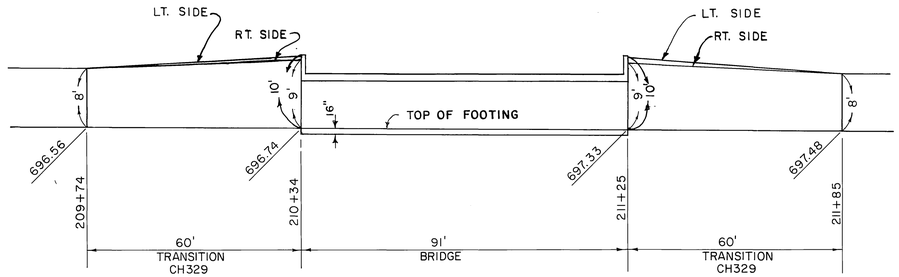
BUCHANAN ST. CROSSING
1970 STORM DRAIN BOND ISSUE PROJECT NO. S-8

PROJECT NO. 1-0-020
DRAWING NO. 1-391
SHEET NO. 22 OF 64

D-606

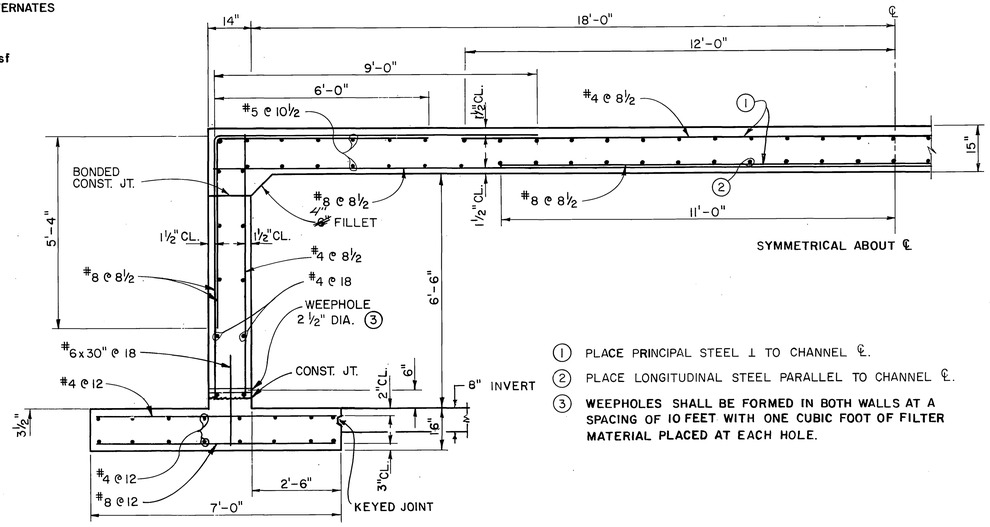
STRUCTURAL CRITERIA

LOADING = HS20-44 and ALTERNATES
f'_c = 4,000 psi
f_y = 60,000 psi
ALLOWABLE SOIL BEARING = 3,000 psf



PROFILE RIGHT & LEFT WALLS

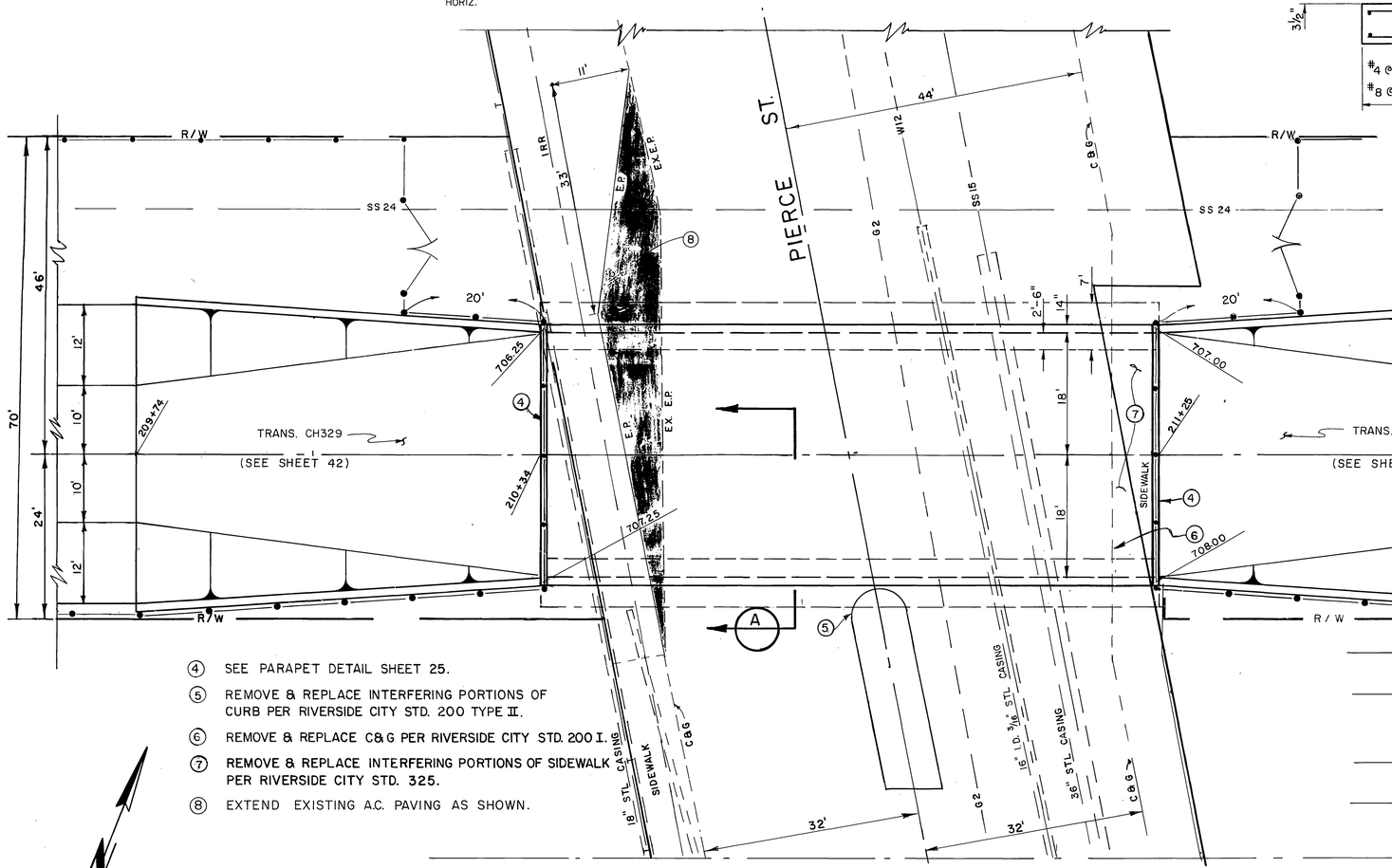
VERT. 10' 0 10' — HORIZ. 20' 0 20'



(1) PLACE PRINCIPAL STEEL ⊥ TO CHANNEL ℄.
(2) PLACE LONGITUDINAL STEEL PARALLEL TO CHANNEL ℄.
(3) WEEPHOLES SHALL BE FORMED IN BOTH WALLS AT A SPACING OF 10 FEET WITH ONE CUBIC FOOT OF FILTER MATERIAL PLACED AT EACH HOLE.

SECTION (A)

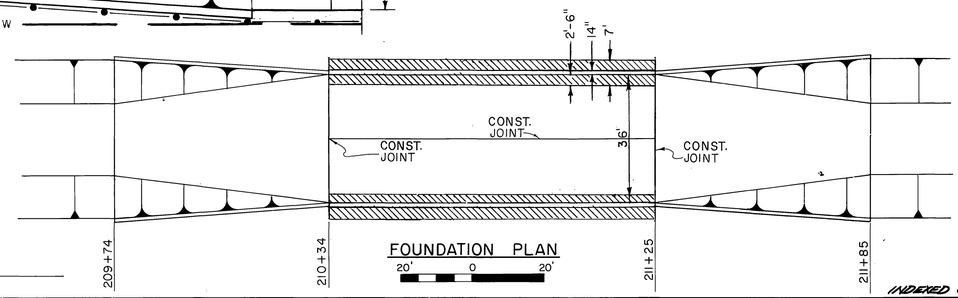
2' 0 2



(4) SEE PARAPET DETAIL SHEET 25.
(5) REMOVE & REPLACE INTERFERING PORTIONS OF CURB PER RIVERSIDE CITY STD. 200 TYPE II.
(6) REMOVE & REPLACE C&G PER RIVERSIDE CITY STD. 200 I.
(7) REMOVE & REPLACE INTERFERING PORTIONS OF SIDEWALK PER RIVERSIDE CITY STD. 325.
(8) EXTEND EXISTING A.C. PAVING AS SHOWN.

PLAN VIEW

10' 0 10'



FOUNDATION PLAN

20' 0 20'

INDEXED CD

BENCH MARK

REVISIONS

REF.	DESCRIPTION	APPR.	DATE
	No Change		

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: A.E.P.
DRAWN BY: K.R.B.
DATE DRAWN: 1984
CHECKED BY: F.J.P.

RECOMMENDED FOR APPROVAL BY: Neal L. Smithson, DESIGN ENGINEER R.E. NO. 16757, DATE: 14 FEB 85

APPROVED BY: Kenneth F. Edwards, CHIEF ENGINEER R.E. NO. 12400, DATE: 2-20-85

ARLINGTON CHANNEL
STAGE II

PIERCE ST. CROSSING
1970 STORM DRAIN BOND ISSUE PROJECT NO. S-8

PROJECT NO. 1-0-020
DRAWING NO. 1-391
SHEET NO. 23 OF 64

AS BUILT

D-606

9+70 9+80 9+90 10+00 10+10 10+20 10+30

714 712 710 708 706 704

Ⓐ & Ⓓ TO BE DETERMINED IN FIELD
Ⓑ TO BE .20' LOWER
Ⓒ TO BE .20' HIGHER

9+74.48

10+00 ℄ CHANNEL
238+71.67

10+25.52

1/16 BEND

709.67 F.L.

2' MIN.

CONC. FILLETS FOR SLIDEGATE & FRAME 3'± ABOVE F.L. (TYP.)

60" TYP.

TOP OF SHELF TYP.

1/16 BEND

2' JOINTS (TYP.)

706.63
9+93.03

706.22
9+95.01

705.94
9+97.00

705.80
9+99.00

705.80
10+01.00

705.94
10+03.00

17'± 8" & 10" V.C.P. – 1 LINE EACH

5-2' SECT. 8" & 10" V.C.P. MITER SPIGOT END 45° 1 LINE EACH

21'–8" & 10" V.C.P. – 1 LINE EACH

PROFILE

① CONST. SS M.H. PER RIVERSIDE CITY STD. 500.
② CONSTRUCT NOTCHES (PER DETAIL THIS SHEET) & INSTALL 1-2'H x 1/4" THK. FIBERGLASS OR GALV. STL. SLIDEGATE & FRAME WITH HANDLES.

IDENTICAL TO M.H. ℄ STA. 10+25.52

9+74.48 ℄ SEWER M.H.

5'

10+00 SEWER STA. 238+71.67 ℄ CHANNEL

℄ 10" PIPE

℄ 8" PIPE

10"

10"

1"x1" SLOTS TO ACCOMMODATE SLIDEGATE & FRAME - TYP. 4 PLACES

PROPOSED TRAP. CHANNEL

SHELF SLOPE 2:1 TYP. BOTH SIDES

60" I.D. MANHOLE WITH 36" FRAME & COVER.

10+25.52 ℄ SEWER M.H.

℄ M.H.

SHELF

SHELF

6"

6"

NOTCH DETAIL

6" 20"

℄ 8" VCP

℄ 10" VCP

6"

6"

CLASS B CONC.

OPTIONAL CONST. JT.

#4 DOWELS 18" LONG 30" O.C.

CONCRETE ENCASEMENT

SECTION Ⓐ
N.T.S.

INDEXED CD

BENCH MARK

REVISIONS

REF.	DESCRIPTION	APPR	DATE
	No Change		

AS BUILT

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: A.E.P.
DRAWN BY: R.A.S.
DATE DRAWN: 1984
CHECKED BY: F.J.P.

RECOMMENDED FOR APPROVAL BY:
DESIGN ENGINEER R.E. NO. 16757
DATE: 14 FEB. 85

APPROVED BY:
CHIEF ENGINEER R.E. NO. 12400
DATE: 2-20-85

ARLINGTON CHANNEL STAGE II SEWER RELOCATION AT FILLMORE ST.

1970 STORM DRAIN BOND ISSUE PROJECT S-8

PROJECT NO. 1-0-020
DRAWING NO. 1-391
SHEET NO. 24 OF 64

D-606

1. STRUCTURAL CONCRETE SHALL BE CLASS "A".

2. STEEL IS DIMENSIONED TO BACK OF BAR BEND.

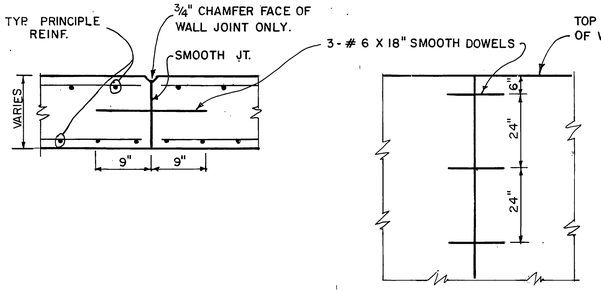
3. FOR CONSTRUCTION ON CURVES, STRAIGHT TRANSVERSE BARS SHALL BE ALIGNED RADIALLY WITH SPACING MEASURED AT FACE OF WALL. FOR L-BARS IN WALLS, SPACING SHALL BE MEASURED BETWEEN THE VERTICAL LEGS OF BARS.

4. ALL TRANSVERSE CONSTRUCTION JOINTS SHALL BE IN A VERTICAL PLANE NORMAL TO THE CENTERLINE AND THE SPACING THEREOF SHALL NOT EXCEED 50 FEET OR BE LESS THAN 10 FEET. CONTINUOUS KEYWAYS OR DOWELS SHALL BE CONSTRUCTED AS SHOWN IN DETAIL A. A COMPLETE CURTAIN OF TRANSVERSE STEEL SHALL BE PLACED 3 INCHES FROM EACH FACE OF THE JOINTS AND LONGITUDINAL STEEL WILL NOT BE CONTINUOUS THROUGH THE JOINTS. IN ADDITION, EXPANSION JOINTS SHALL BE CONSTRUCTED BETWEEN REINFORCED CONCRETE CHANNEL AND REINFORCED CONC. BOX & BRIDGE SECTIONS AS SHOWN IN DETAIL B. DOWELS SHALL BE PLACED AT 12 INCHES SPACING CENTERED IN THE MIDDLE THIRD OF THE BOTTOM SLAB AND THE TOP THIRD OF SIDE WALLS. A MINIMUM OF 3 DOWELS PER SLAB AND WALLS SHALL BE PLACED.

(5) WEEPHOLES SHALL BE FORMED AS SHOWN IN BOTH WALLS AT A SPACING OF 10 FEET WITH ONE CUBIC FOOT OF FILTER MATERIAL PLACED AT EACH HOLE.

6. ALL CONVENIENCE SPLICES ARE SUBJECT TO APPROVAL BY THE ENGINEER.

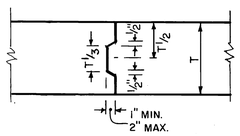
7. TRANSVERSE WEAKENED PLANE JOINTS ARE REQUIRED IN THE UNREINFORCED INVERT AT LOCATIONS CORRESPONDING TO CONSTRUCTION JOINTS IN THE CHANNEL WALLS (SEE NOTE 4 ABOVE) AND AT A MAXIMUM SPACING OF 12.5'.



DETAIL A (ALTERNATE)

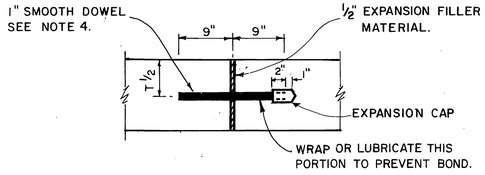
TRANSVERSE CONST. JT. IN WALL & WALL FOOTING

SEE NOTE 4.



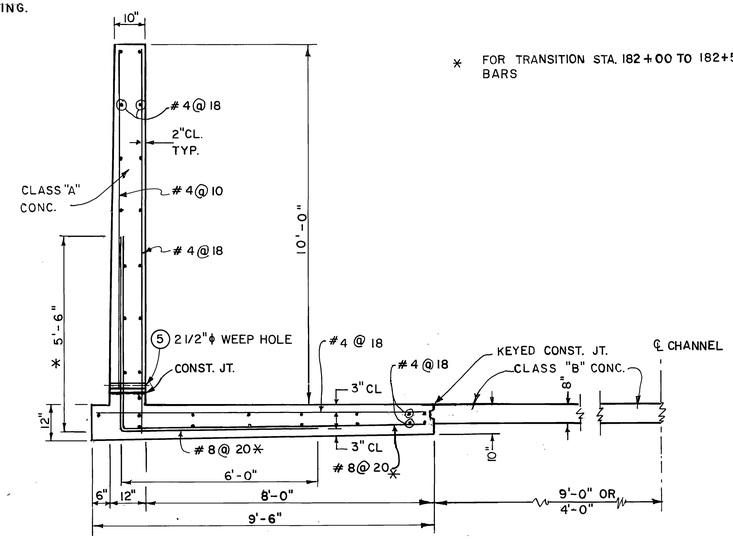
KEYED CONSTRUCTION JOINT

DETAIL A



DETAIL B

TRANSVERSE EXPANSION JOINT

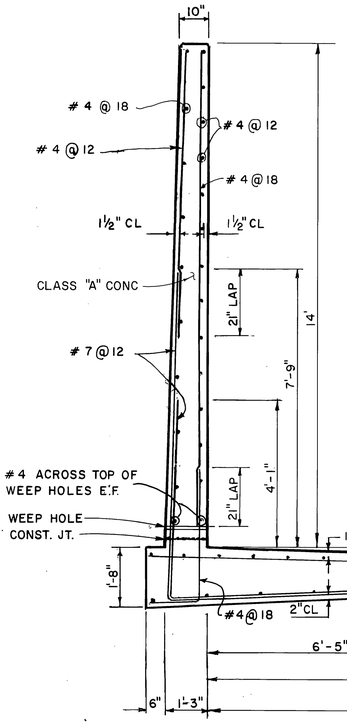


* FOR TRANSITION STA. 182+00 TO 182+50 USE 7'-0" VERTICAL LENGTH WITH ALL #8 BARS

RECTANGULAR CHANNEL "L" WALL SECTION

B = 24' or 34', D = 10'

2' 0 2'

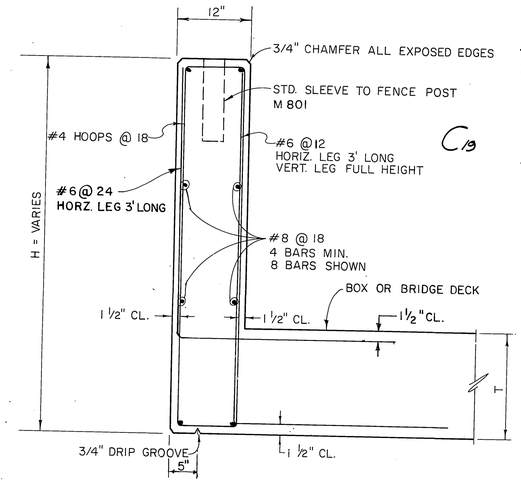


TYPICAL SECTION STA. 198+70 TO 201+02

B = 48', D = 14'

(STAGE I STATIONING)

2' 0 2'



PARAPET DETAIL

1' 0 1'

ARLINGTON CHANNEL	
H'	STATION
~~5.45~~ 5.75	175+55.86
~~2.80~~ 2.75	178+94.50
VARIES	182+50
VARIES	183+40
VARIES	210+34
VARIES	211+25
~~2.00~~ 3.00	259+46.62
~~2.00~~ 3.00	259+71.00

ARIZONA LATERAL	
H'	STATION
3.00	9+65.87
8.00	10+89

INDEXED -CD

BENCH MARK

REVISIONS

REF.	DESCRIPTION	APPR.	DATE
C13	Changes As Shown	JONES	10/20/84

AS BUILT

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: A. E. P.
DRAWN BY: K. R. B.
DATE DRAWN: 1984
CHECKED BY: F.U.P.

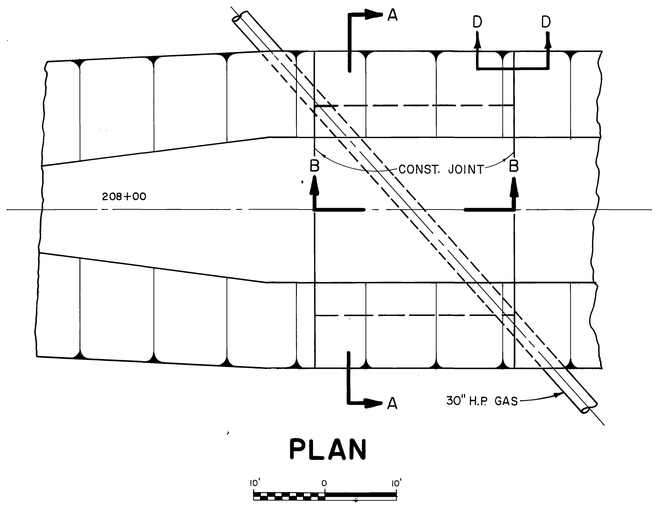
RECOMMENDED FOR APPROVAL BY: Nicholas Smithson, DESIGN ENGINEER R.E. NO. 16757, DATE: 14 FEB. 85

APPROVED BY: Kenneth L. Edwards, CHIEF ENGINEER R.E. NO. 12400, DATE: 2-20-85

ARLINGTON CHANNEL
STAGE II
RECTANGULAR CHANNEL
STRUCTURAL DETAILS
1970 STORM DRAIN BOND ISSUE PROJECT NO. 5-8

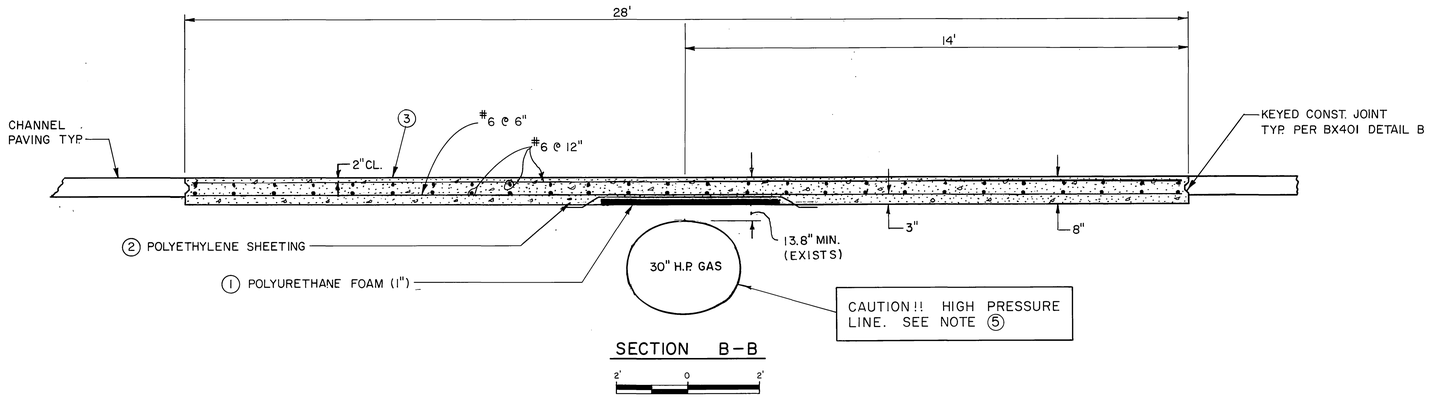
PROJECT NO. 1-0-020
DRAWING NO. 1-391
SHEET NO. 25 OF 64

D-606



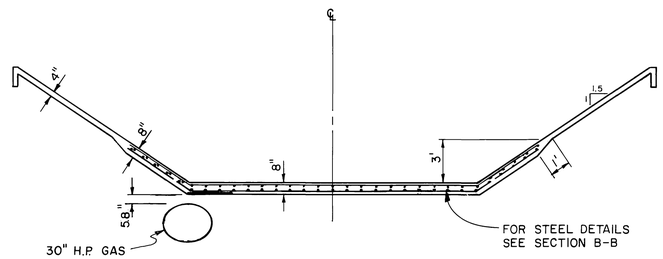
PLAN

10' 0 10'



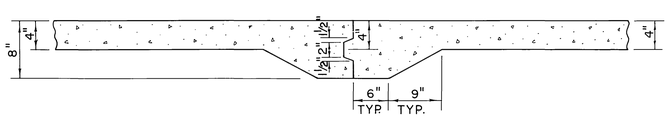
SECTION B-B

2' 0 2'



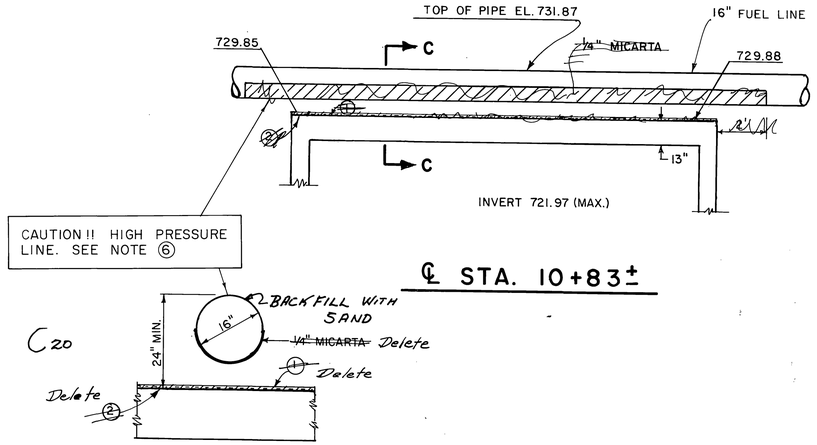
SECTION A-A

5' 0 5'



SECTION D-D

N.T.S.



SECTION C-C

16" H.P. FUEL LINE

FOUR CORNERS CO. PIPE LINE

N. T. S.

NOTES:

1. POLYURETHANE FOAM SHALL BE FLEXIBLE 1 INCH THICK TYPE 210B FROM UNITED FOAM INC., OR EQUAL. WIDTH SHALL BE ½ TIMES THE OUTSIDE PIPE DIA & CENTERED OVER THE PIPE.
2. POLYETHYLENE SHEETING SHALL BE 5 MILS IN THICKNESS & SHALL OVERLAP THE POLYURETHANE FOAM BY 1' MIN. ON ALL SIDES.
3. CONC. SHALL BE CLASS "B" & HAVE A MIN. COMPRESSIVE STRENGTH OF 3,000 psi AT 28 DAYS.
4. REINFORCING STEEL SHALL BE GRADE 40 DEFORMED BARS CONFORMING TO ASTM A-615. MIN. OVERLAP OF SPLICES SHALL BE 24 BAR DIAMETERS.
5. CONTRACTOR SHALL USE EXTREME CAUTION AROUND 30" H.P. GAS LINE. CONTACT FRANK LAFLORE (714-845-2617) 48 HOURS PRIOR TO ANY WORK IN THIS AREA.
6. CONTRACTOR SHALL USE EXTREME CAUTION AROUND 16" H.P. FUEL LINE. CONTACT MEL DURLEY(213-428-3319) 48 HOURS PRIOR TO ANY WORK IN THIS AREA.

INDEXED CD

BENCH MARK

REVISIONS			
△	REVISED NOTE ③ M.L.d.		5-1-85
C21	See Section For Changes	APPR	10/10/86
REF.	DESCRIPTION	APPR.	DATE

AS BUILT

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: D.C.P.
DRAWN BY: R.O.S.
DATE DRAWN: 1-23-84
CHECKED BY: F.J.P.

RECOMMENDED FOR APPROVAL BY: Neal L. Smithhammer
DESIGN ENGINEER R.E. NO. 16757
DATE: 11 FEB 85

APPROVED BY: Kenneth L. Edwards
CHIEF ENGINEER R.E. NO. 12400
DATE: 2-20-85

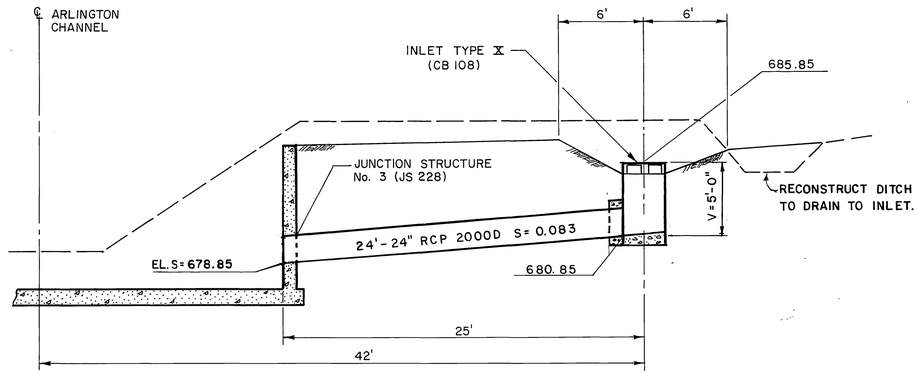
ARLINGTON CHANNEL STAGE II

16" H.P. FUEL LINE & 30" H.P. GAS-PROTECTION DETAILS

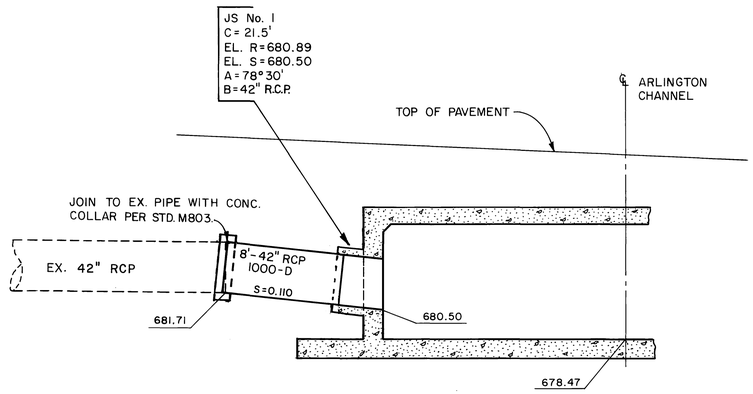
1970 STORM DRAIN BOND ISSUE PROJECT S-8

PROJECT NO. 1-0-020
DRAWING NO. 1-391
SHEET NO. 26 OF 64

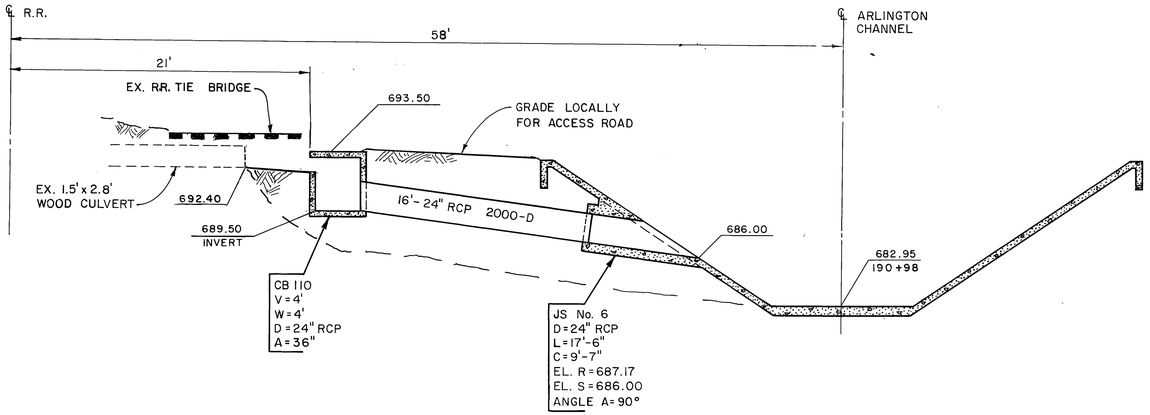
D-606



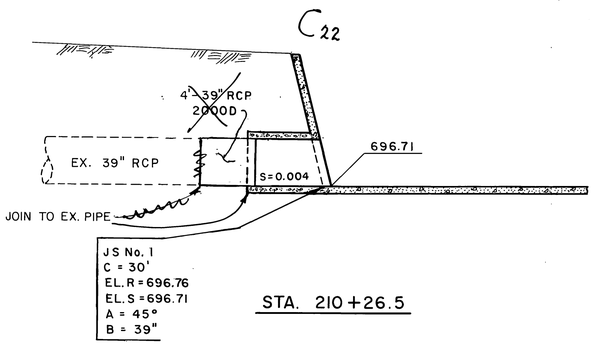
41
STA. 179+45



STA. 182+59



STA. 190+98



STA. 210+26.5

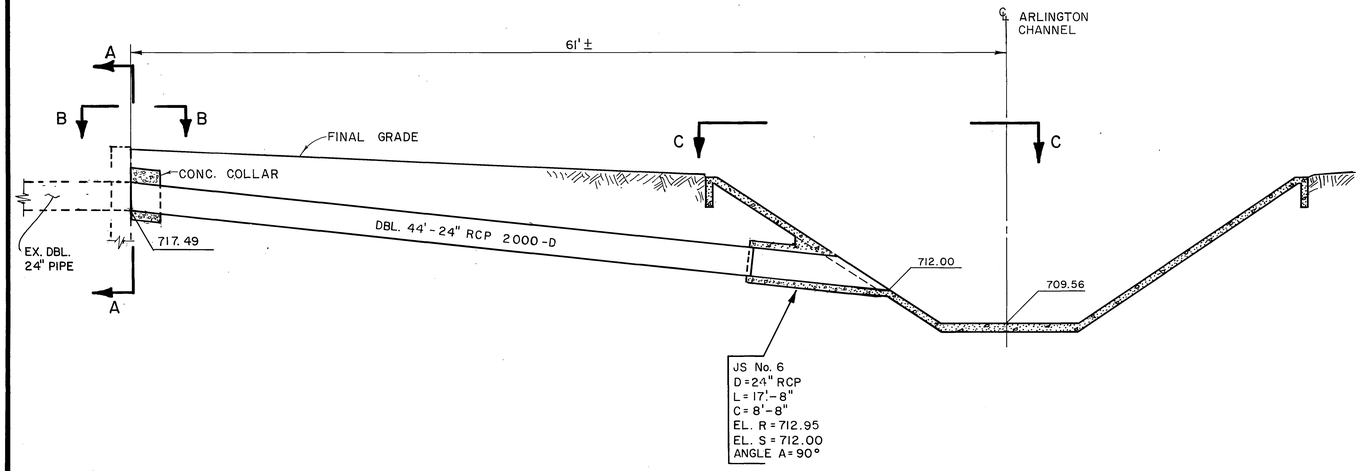
5' 0 5'

INDEXED CD

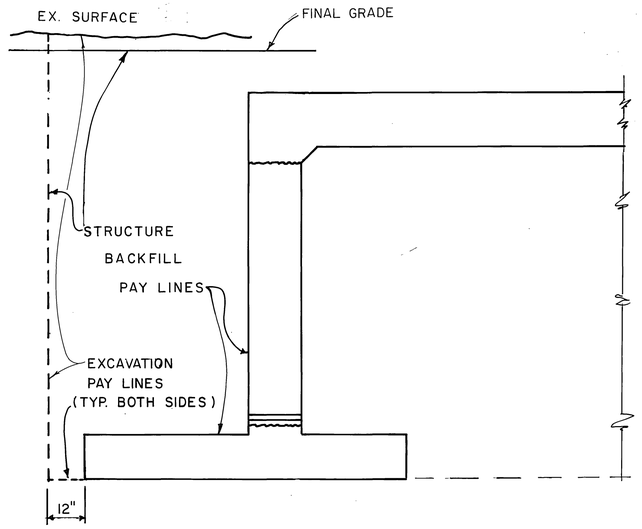
BENCH MARK	REVISIONS				RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT			ARLINGTON CHANNEL STAGE II	PROJECT NO. 1-0-020
					DESIGNED BY: D.C.P.	RECOMMENDED FOR APPROVAL BY: Neal Smithhamm DESIGN ENGINEER R.E. NO. 16757	APPROVED BY: Kenneth Edwards CHIEF ENGINEER R.E. NO. 12400	INLET DETAILS	DRAWING NO. 1-391
					DRAWN BY: RAS				SHEET NO. 27 OF 64
					DATE DRAWN: 3-2-84	DATE: 14 FEB. 85	DATE: 2-20-85	1970 STORM DRAIN BOND ISSUE PROJECT NO. S-8	
C22 REF.	178+45 Changes As Shown, Sta. 210+26.5 DESCRIPTION	APPR	DATE		CHECKED BY: F.J.P.				

AS BUILT

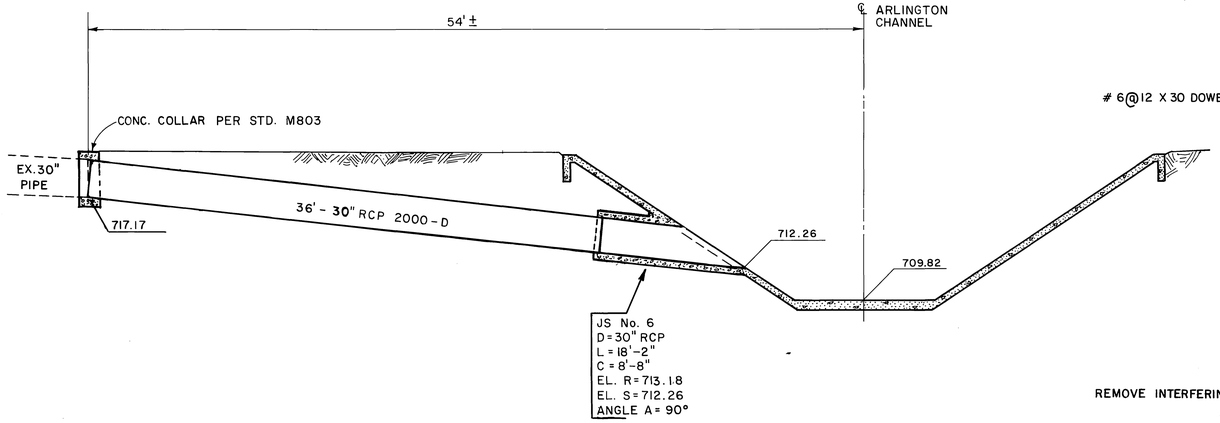
D-606



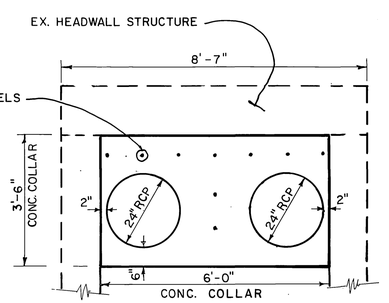
STA. 238+52



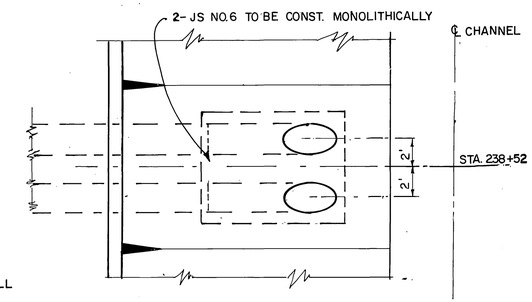
BRIDGE PAY LINES
NORMAL CONDITION
N.T.S.



STA. 238+99

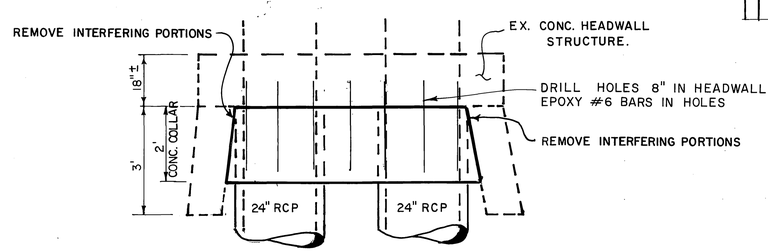


SECTION A-A



SECTION C-C

5' 0 5'



SECTION B-B

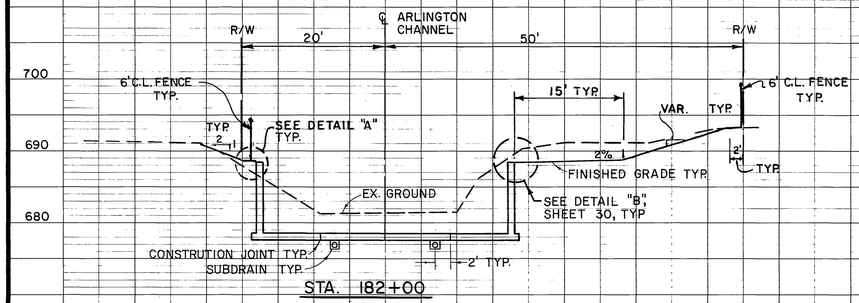
2' 1' 0 1' 2'

INDEXED ☑

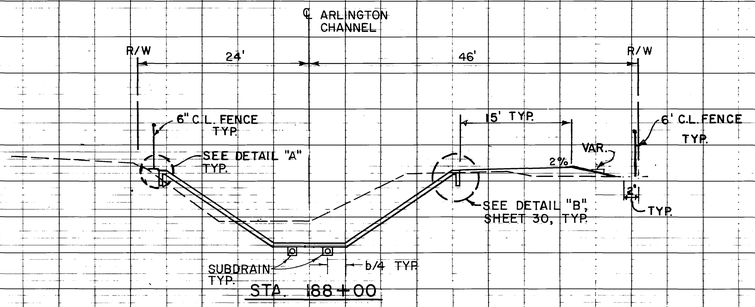
BENCH MARK	REVISIONS			RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT			ARLINGTON CHANNEL STAGE II INLET DETAILS AND BRIDGE PAY LINES	PROJECT NO. 1-0-020
				DESIGNED BY: D.C.P.	RECOMMENDED FOR APPROVAL BY: Neal L. Smithson DESIGN ENGINEER R.E. NO. 16757	APPROVED BY: Kenneth Edwards CHIEF ENGINEER R.E. NO. 12400		DRAWING NO. 1-391
				DRAWN BY: K.R.B				
				DATE DRAWN: 1984	DATE: 14 FEB 85	DATE: 2-20-85		SHEET NO. 28 OF 64
	No Change			CHECKED BY: F.J.P.			1970 STORM DRAIN BOND ISSUE PROJECT NO. S-8	
	REF. DESCRIPTION	APPR.	DATE					

AS BUILT

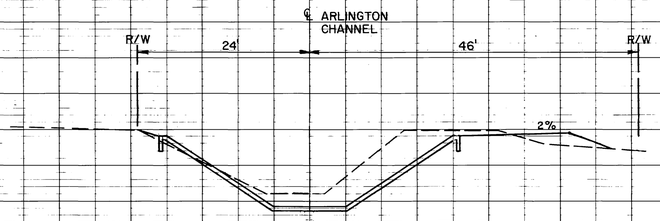
D-606



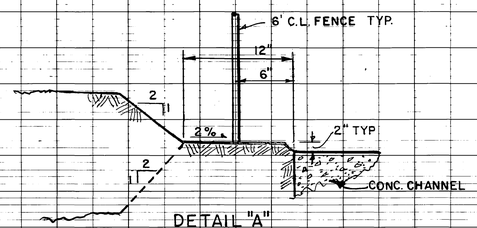
STA. 182+00



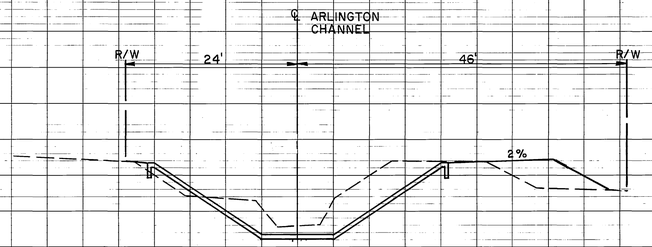
STA. 188+00



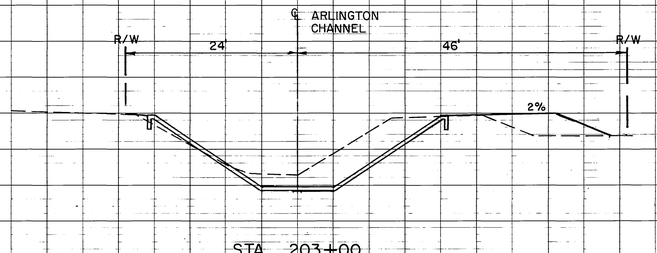
STA. 193+00



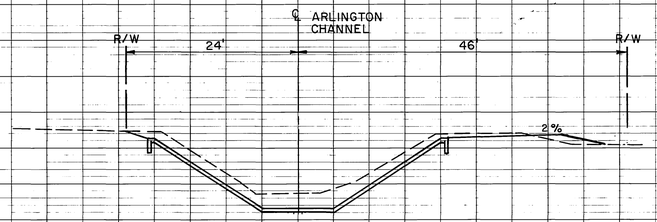
DETAIL "A"
TYPICAL GRADING FOR GROUND AT LEFT SIDE OF CHANNEL
N.T.S.



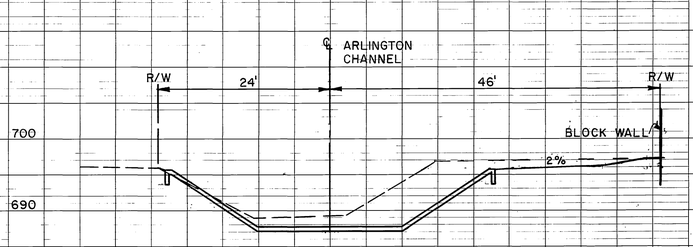
STA. 198+00



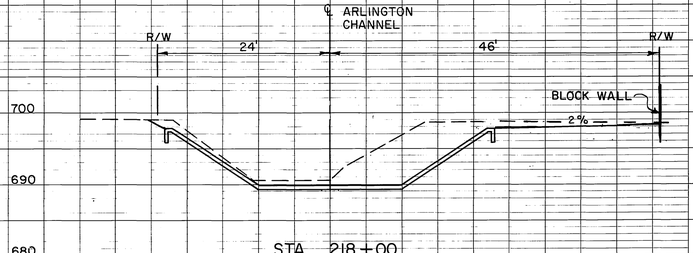
STA. 203+00



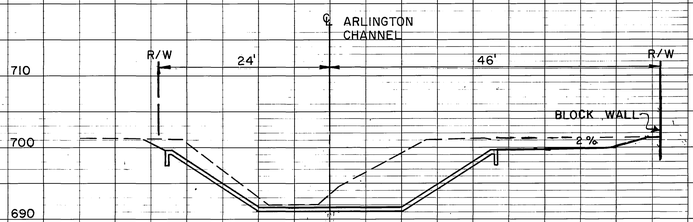
STA. 207+00



STA. 213+00



STA. 218+00



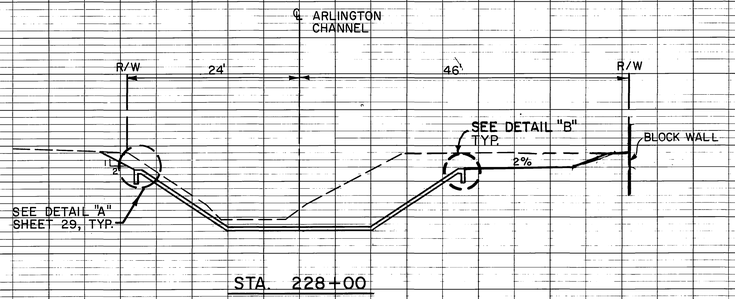
STA. 223+00

INDEXED ☐

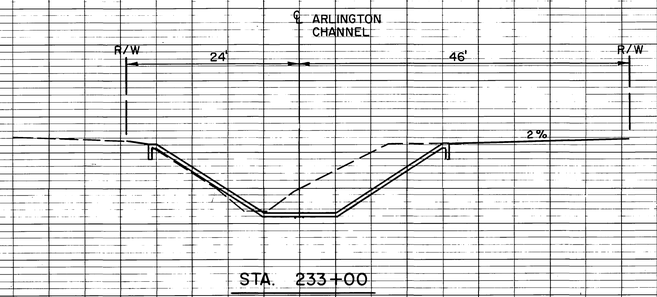
BENCH MARK	REVISIONS			RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT			ARLINGTON CHANNEL STAGE II	PROJECT NO. 1-0-020
				DESIGNED BY: D. C. P.	RECOMMENDED FOR APPROVAL BY:	APPROVED BY:	CROSS SECTIONS	DRAWING NO. 1-391
				DRAWN BY: R.A.S.	DESIGN ENGINEER R.E. NO. 16757	CHIEF ENGINEER R.E. NO. 12400	STA. 182+00 TO 223+00	SHEET NO. 29 OF 64
	No Change			DATE DRAWN: 11-13-84	DATE: 14 FEB 85	DATE: 2-20-85	1970 STORM DRAIN BOND ISSUE PROJECT NO. 8-8	
	REF. DESCRIPTION	APPR.	DATE	CHECKED BY: F.U.R.				

AS BUILT

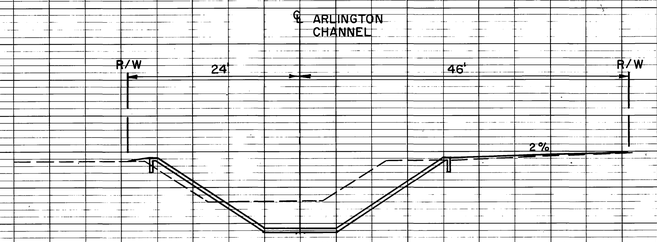
D-606



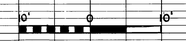
STA. 228+00

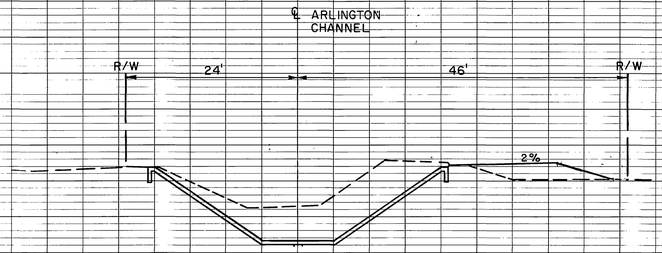


STA. 233+00

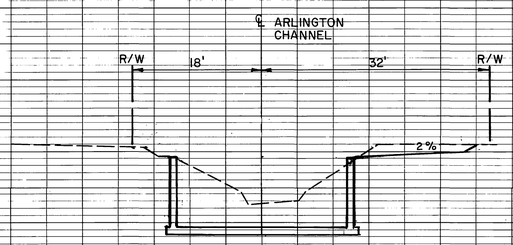


STA. 238+00

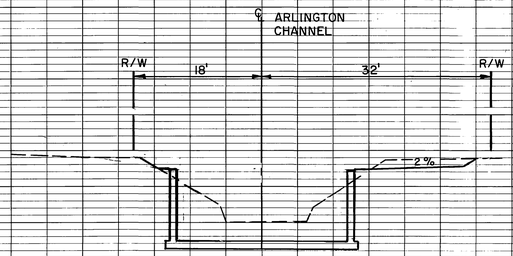




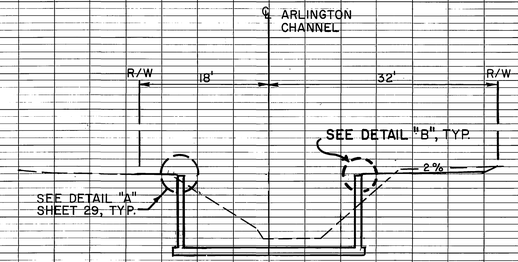
STA. 243+00



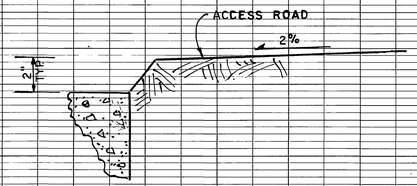
STA. 248+00



STA. 253+00



STA. 258+00



TYPICAL GRADING FOR ACCESS ROAD AT CHANNEL

DETAIL "B"

N.T.S.

INDEXED CD

BENCH MARK

REVISIONS

REF.	DESCRIPTION	APPR.	DATE
	No Change		

A'S BUILT

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: D.C.P.
DRAWN BY: R.C.A.
DATE DRAWN: 1984
CHECKED BY: F.J.P.

RECOMMENDED FOR APPROVAL BY:
DESIGN ENGINEER R.E. NO. 16757
DATE: 14 FEB 85

APPROVED BY:
CHIEF ENGINEER R.E. NO. 12400
DATE: 2-20-85

ARLINGTON CHANNEL
STAGE II

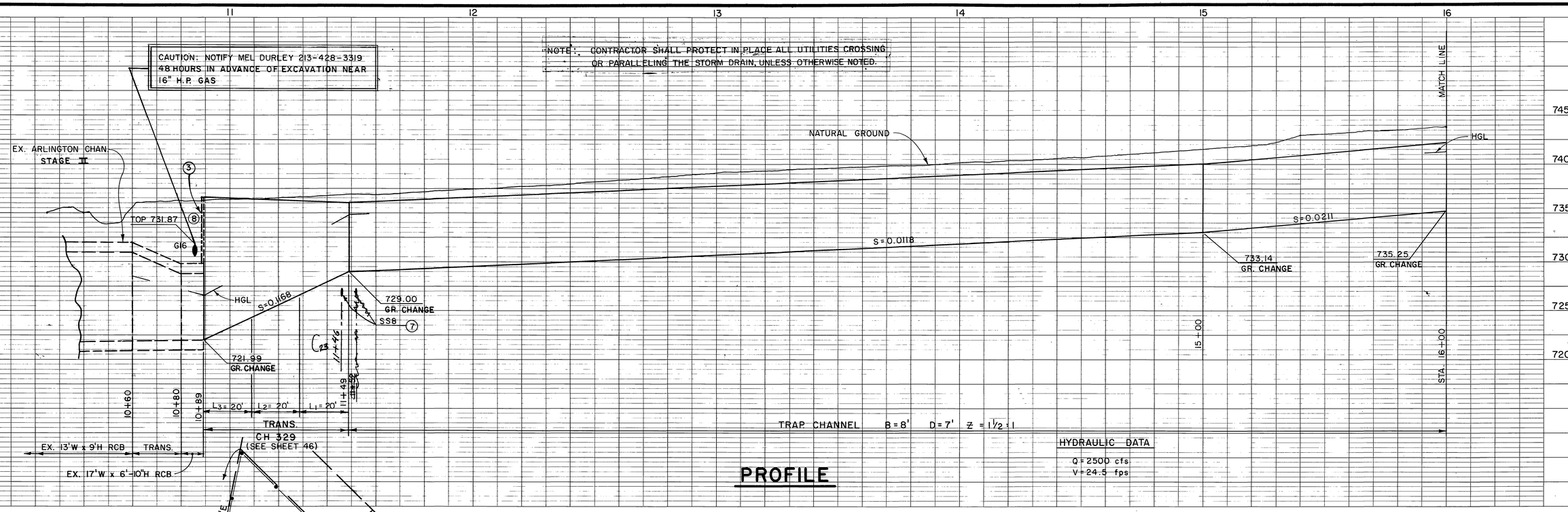
CROSS SECTIONS
STA. 228+00 TO 258+00
1970 STORM DRAIN BOND ISSUE PROJECT NO. 3-8

PROJECT NO. 1-0-020
DRAWING NO. 1-391
SHEET NO. 30 OF 64

D-606

CAUTION: NOTIFY MEL DURLEY 213-428-3319
48 HOURS IN ADVANCE OF EXCAVATION NEAR
16" H.P. GAS

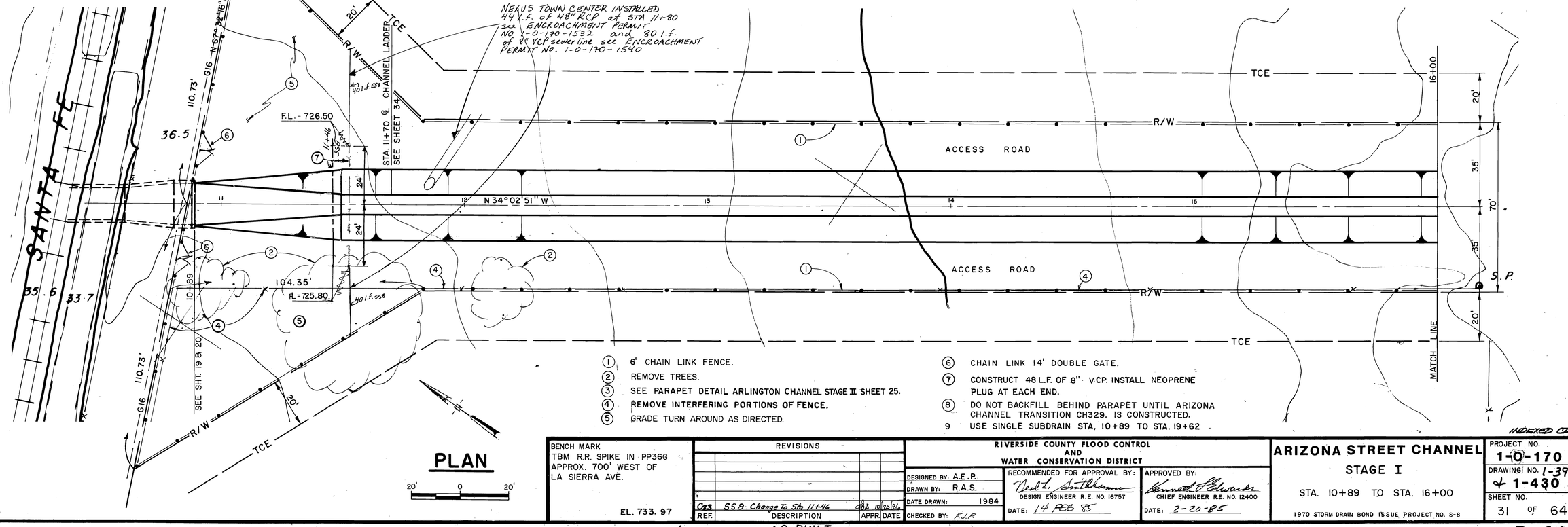
NOTE: CONTRACTOR SHALL PROTECT IN PLACE ALL UTILITIES CROSSING OR PARALLELING THE STORM DRAIN, UNLESS OTHERWISE NOTED.



TRAP CHANNEL B=8' D=7' Z=1½:1

HYDRAULIC DATA
Q=2500 cfs
V=24.5 fps

PROFILE



1. 6' CHAIN LINK FENCE.
2. REMOVE TREES.
3. SEE PARAPET DETAIL ARLINGTON CHANNEL STAGE II SHEET 25.
4. REMOVE INTERFERING PORTIONS OF FENCE.
5. GRADE TURN AROUND AS DIRECTED.
6. CHAIN LINK 14' DOUBLE GATE.
7. CONSTRUCT 48 L.F. OF 8" VCP. INSTALL NEOPRENE PLUG AT EACH END.
8. DO NOT BACKFILL BEHIND PARAPET UNTIL ARIZONA CHANNEL TRANSITION CH329. IS CONSTRUCTED.
9. USE SINGLE SUBDRAIN STA. 10+89 TO STA. 19+62

PLAN

20' 0 20'

INDEXED CD

BENCH MARK
TBM R.R. SPIKE IN PP36G
APPROX. 700' WEST OF
LA SIERRA AVE.

EL. 733.97

REVISIONS

REF.	DESCRIPTION	APPR	DATE
C13	SS8 Change To Sta 11+46	CHB	10/30/84

AS BUILT

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: A.E.P.
DRAWN BY: R.A.S.
DATE DRAWN: 1984
CHECKED BY: F.J.P.

RECOMMENDED FOR APPROVAL BY: Neal L. Smithhammer
DESIGN ENGINEER R.E. NO. 16757
DATE: 14 FEB 85

APPROVED BY: Kenneth A. Edwards
CHIEF ENGINEER R.E. NO. 12400
DATE: 2-20-85

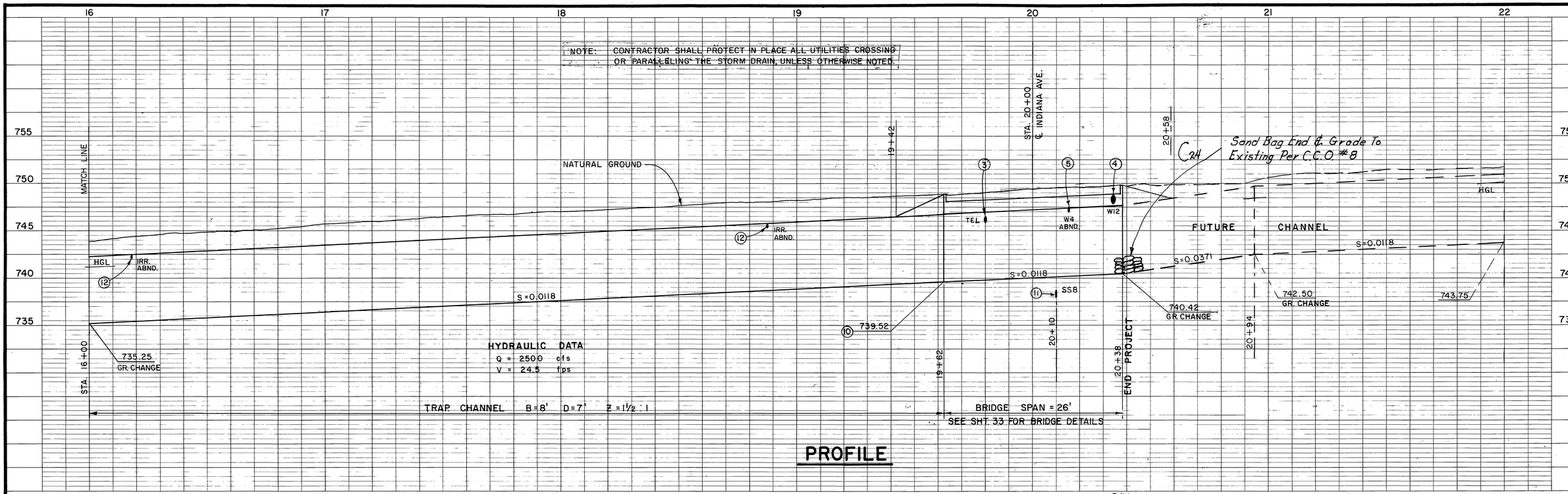
ARIZONA STREET CHANNEL
STAGE I
STA. 10+89 TO STA. 16+00

1970 STORM DRAIN BOND ISSUE PROJECT NO. S-8

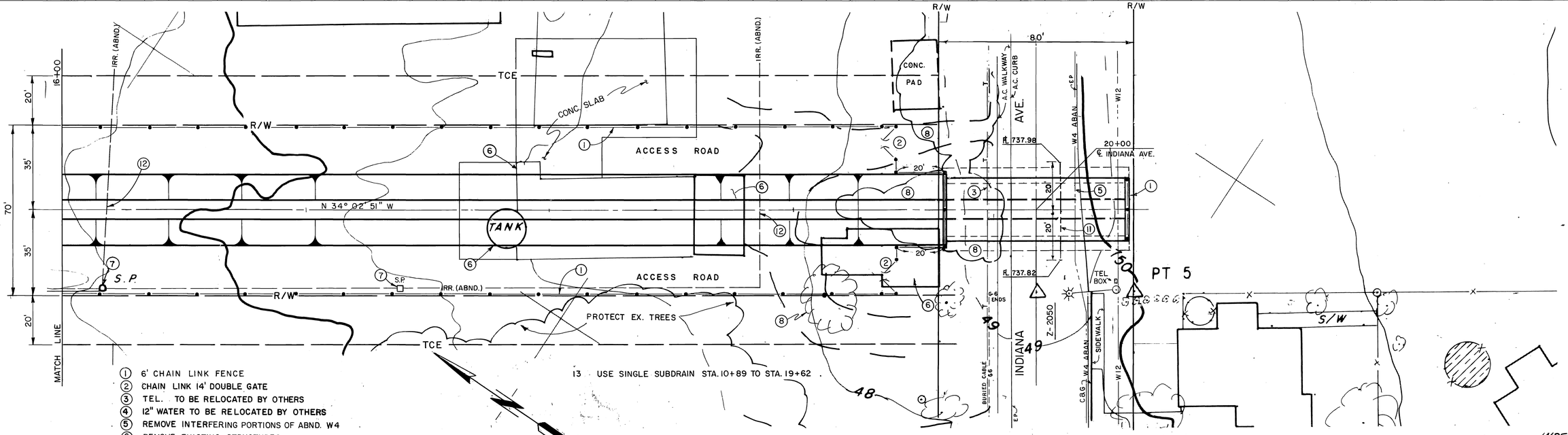
PROJECT NO. 1-0-170
DRAWING NO. 1-391 & 1-430
SHEET NO. 31 OF 64

D-606

NOTE: CONTRACTOR SHALL PROTECT IN PLACE ALL UTILITIES CROSSING OR PARALLELING THE STORM DRAIN, UNLESS OTHERWISE NOTED.



PROFILE



1. 6' CHAIN LINK FENCE
2. CHAIN LINK 14' DOUBLE GATE
3. TEL. TO BE RELOCATED BY OTHERS
4. 12" WATER TO BE RELOCATED BY OTHERS
5. REMOVE INTERFERING PORTIONS OF ABND. W4
6. REMOVE EXISTING STRUCTURES
7. REMOVE STAND PIPE
8. REMOVE TREES
9. PROTECT EXISTING FENCE.
10. DISCONTINUE SUBDRAIN AT STA. 19+62
11. CONSTRUCT 40 L.F OF 8" VCP INSTALL NEOPRENE PLUG AT EACH END.
12. REMOVE INTERFERING PORTIONS OF ABANDONED IRR.
13. USE SINGLE SUBDRAIN STA. 10+89 TO STA. 19+62.

PLAN

20' 0 20'

AS BUILT

BENCH MARK
CHISELED BOX ON CURB SO SIDE OF INDIANA APPROX. 400' E OF INTERSECTION WICKHAM AND INDIANA
EL. 748.88

REVISIONS			
REF.	DESCRIPTION	APPR.	DATE
C24	Change As Shown in Profile		10/20/84

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: A.E.P.
DRAWN BY: R.A.S.
DATE DRAWN: 1984
CHECKED BY: F.J.A.

RECOMMENDED FOR APPROVAL BY: Neal F. Southerland
DESIGN ENGINEER R.E. NO. 16757
DATE: 14 FEB 85

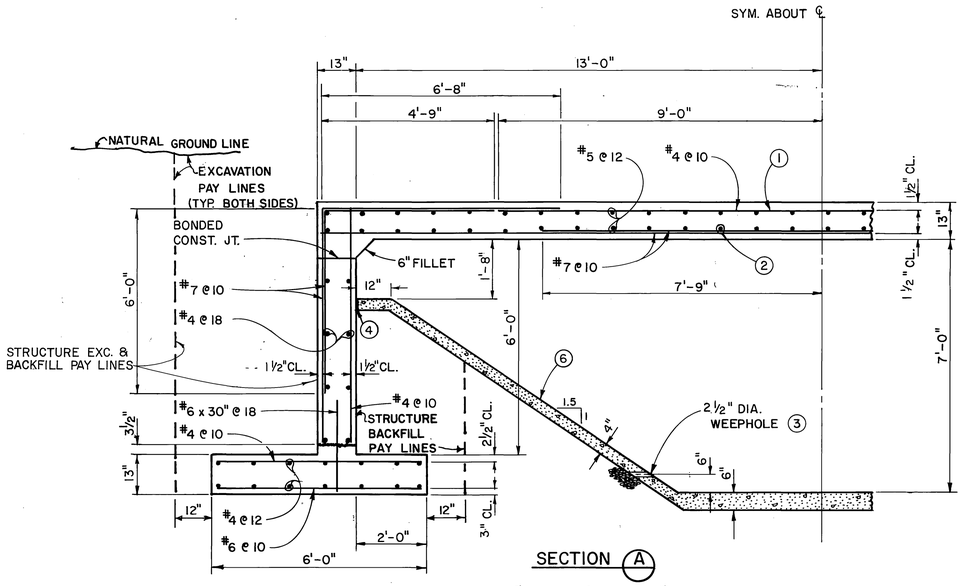
APPROVED BY: Kenneth P. Edwards
CHIEF ENGINEER R.E. NO. 12400
DATE: 2-20-85

ARIZONA STREET CHANNEL
STAGE I
STA. 16+00 TO STA. 20+38
1970 STORM DRAIN BOND ISSUE PROJECT NO. 5-8

INDEXED ☐

PROJECT NO. 1-0-170
DRAWING NO. 1-430
SHEET NO. 32 OF 64

D-606



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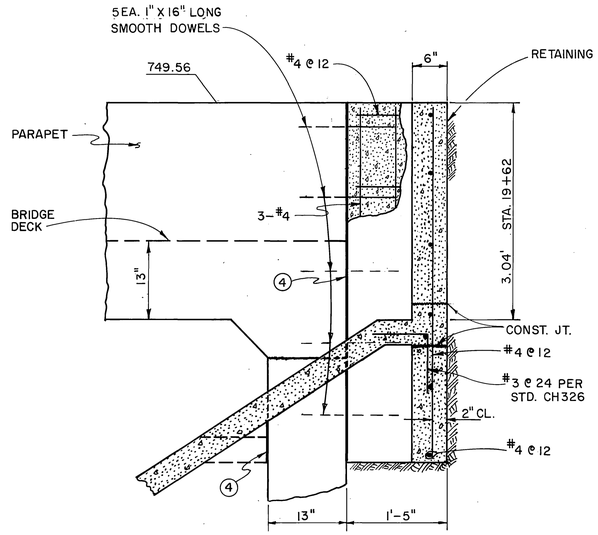

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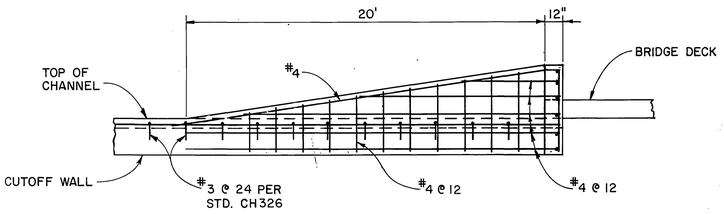
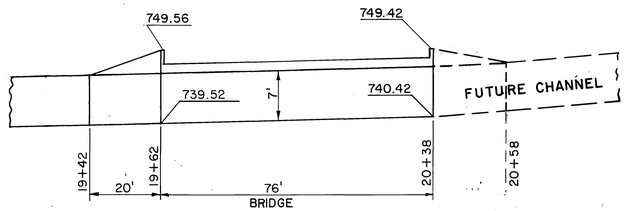
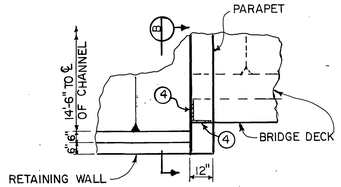


SIDE VIEW OF RETAINING WALL (TYP.)
N.T.S.

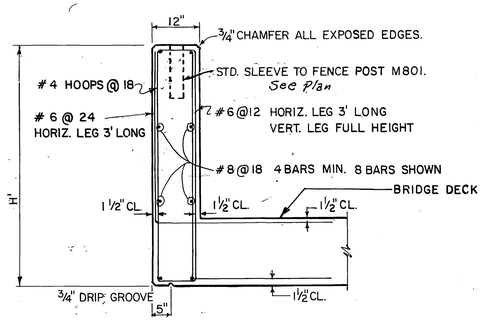


PROFILE RIGHT & LEFT WALLS

HORIZ. 20' 0 20'
VERT. 10' 0 10'

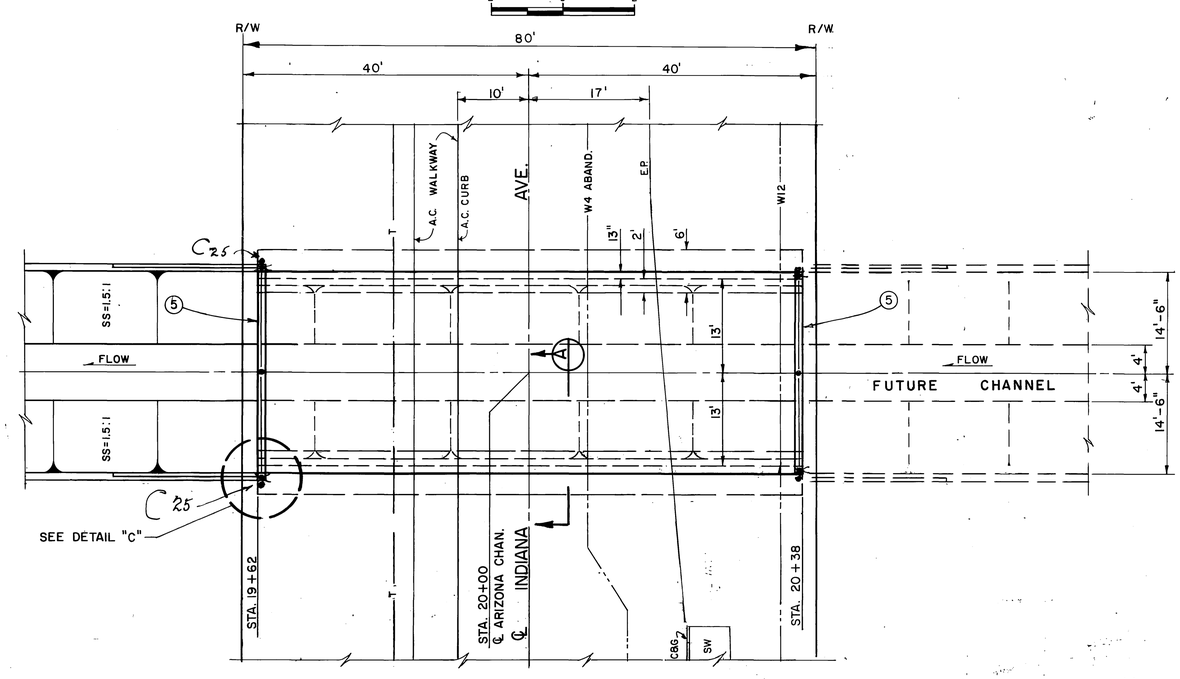


DETAIL (C)



H'=3.04' AT STA. 19+62
H'=2.00' AT STA. 20+38

PARAPET DETAIL



PLAN

10' 0 10'

1. PLACE PRINCIPAL STEEL ⊥ TO CHANNEL ℄.
2. PLACE LONGITUDINAL STEEL PARALLEL TO CHANNEL ℄.
3. WEEPHOLES SHALL BE FORMED IN SLOPED SIDES AT A SPACING OF 10 FEET WITH ONE CUBIC FOOT OF FILTER MATERIAL PLACED AT EACH HOLE.
4. INSTALL 1/2" EXPANSION JOINT MATERIAL.
5. SEE PARAPET DETAIL.
6. CONSTRUCT CHANNEL INVERT & SIDES PRIOR TO BRIDGE DECK.

INDEXED CD

BENCH MARK

REVISIONS			
REF.	DESCRIPTION	APPR.	DATE
Cas	Change C/L Fence Posts	[illegible]	10/18/84

AS BUILT

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: D.C.P
DRAWN BY: R.A.S.
DATE DRAWN: 1984
CHECKED BY: F.J.P.

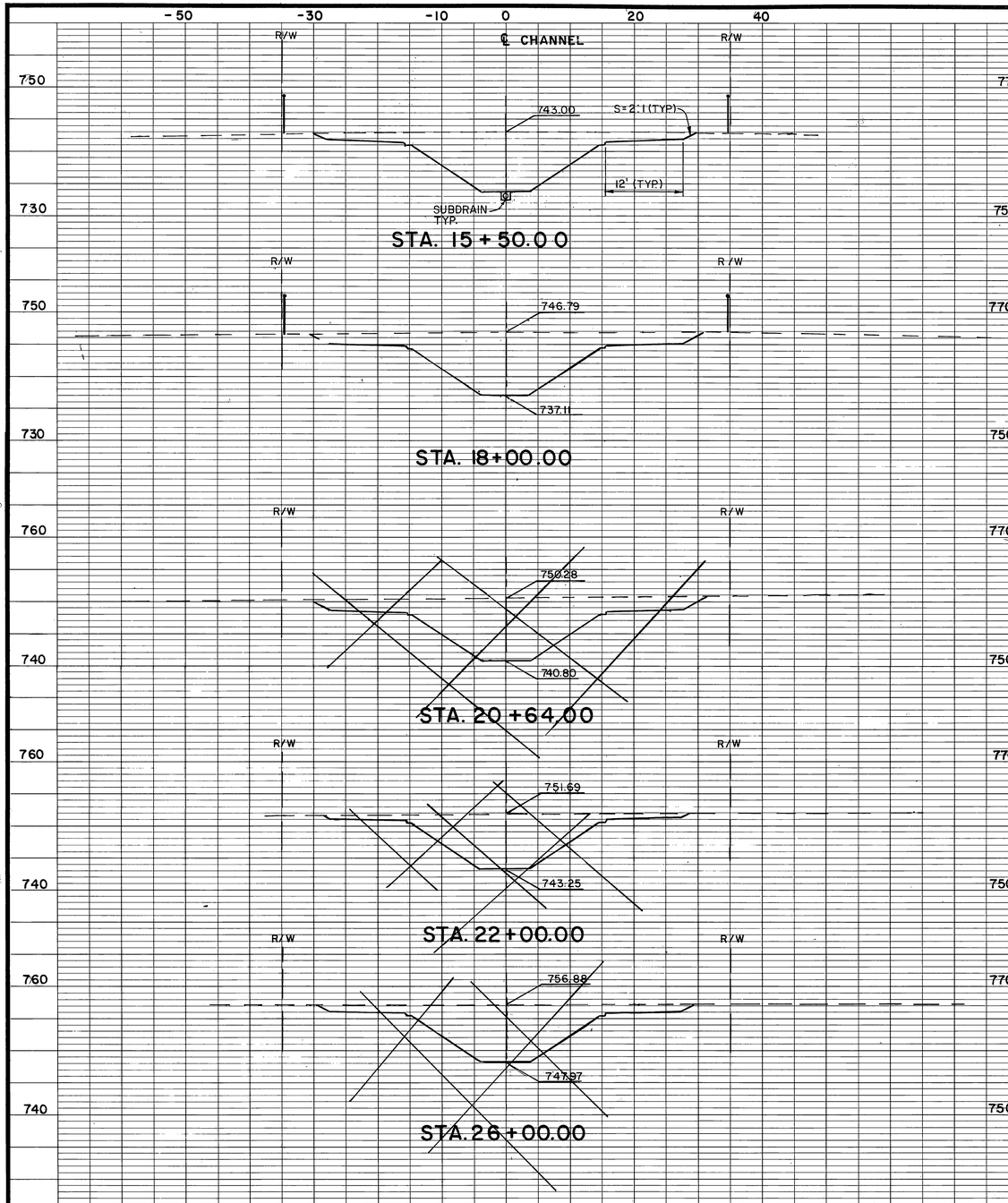
RECOMMENDED FOR APPROVAL BY: [signature] DESIGN ENGINEER R.E. NO. 16757 DATE: 14 FEB 85

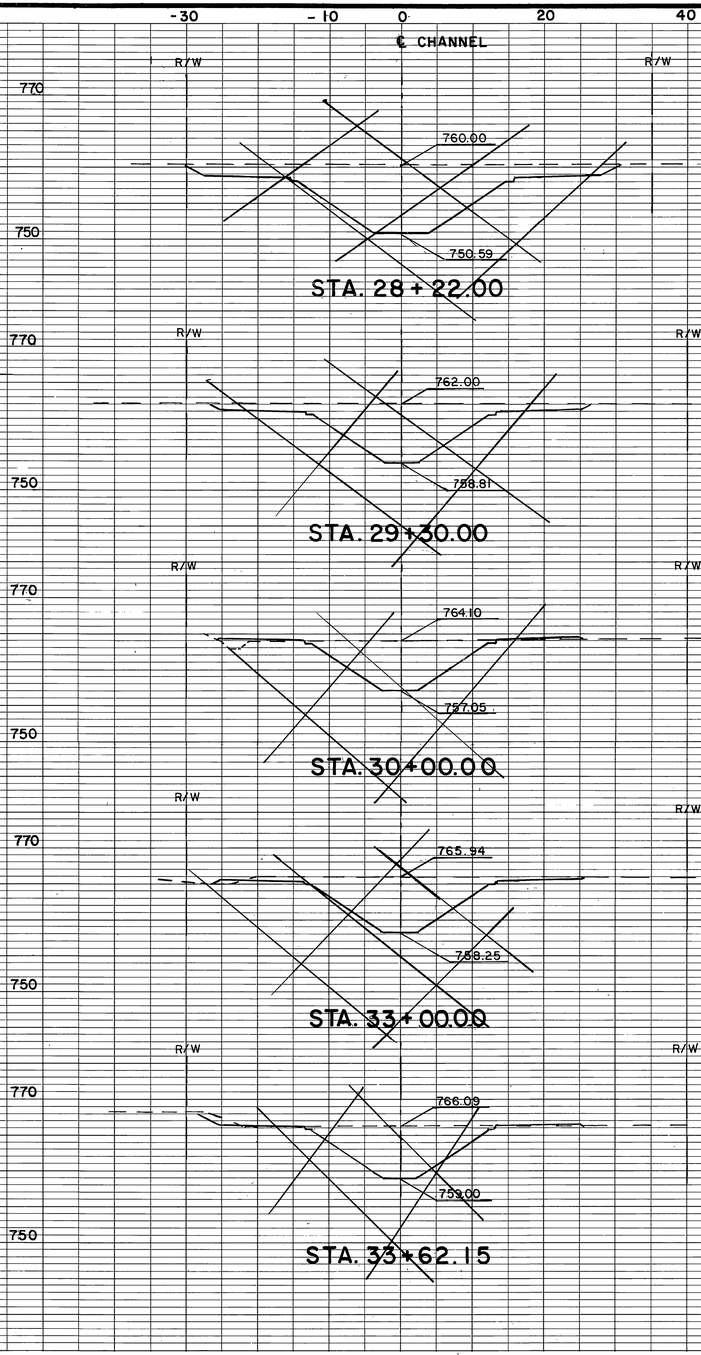
APPROVED BY: [signature] CHIEF ENGINEER R.E. NO. 12400 DATE: 2-20-85

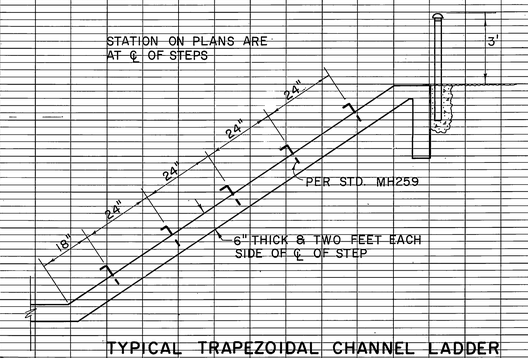
ARIZONA ST. CHANNEL
STAGE I
INDIANA AVE. BRIDGE

PROJECT NO. 1-0-170
DRAWING NO. 1-391 & 1-430
SHEET NO. 33 OF 64

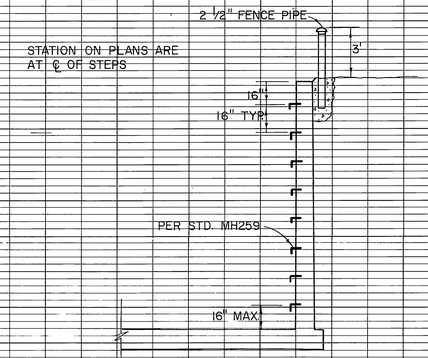
D-606







TYPICAL TRAPEZOIDAL CHANNEL LADDER
BOTH SIDES OF CHANNEL
N.T.S.



TYPICAL RECTANGULAR CHANNEL LADDER
BOTH SIDES OF CHANNEL
N.T.S.

NOTE: REFER TO STD. TRAPEZOIDAL CHANNEL DETAILS CH 326

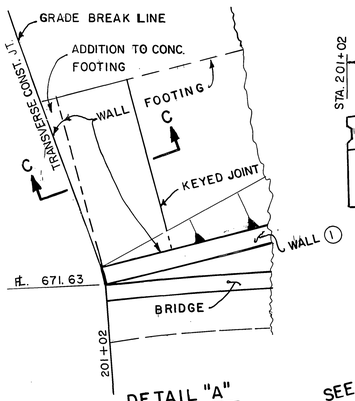
INDEXED ☐

BENCH MARK	REVISIONS	RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	ARIZONA ST. CHANNEL STAGE I
SCALE:	REF. DESCRIPTION APPR. DATE	DESIGNED BY: A.E.P.	TYPICAL CROSS- SECTIONS
DATE:	No Change	DRAWN BY: K.R.B.	1970 STORM DRAIN BOND ISSUE PROJECT NO. 5-8
		DATE DRAWN: 1984	PROJECT NO. 1-0-170
		CHECKED: [illegible]	DRAWING NO. 1-391-4-430
		APPROVED BY: Kenneth B. Edwards, CHIEF ENGINEER R.E. NO. 12400	SHEET NO. 34 OF 64
		DATE: 2-20-85	

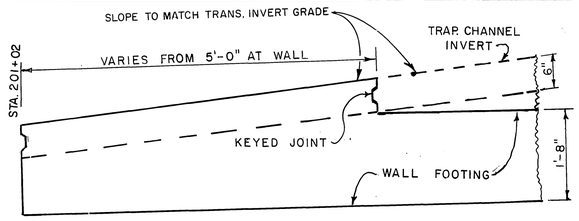
AS BUILT

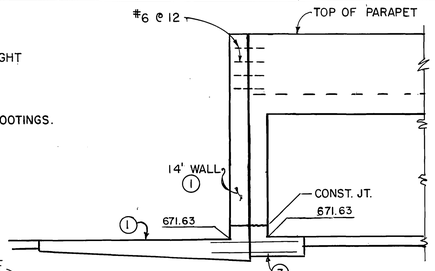
D-606

1. SEE SHEET 25 FOR FOOTING & WALL DETAILS.
2. TRANSITION - USE 14' HIGH WALL DESIGN VARING IN HEIGHT FROM 14' TO 12', USE STEEL PATTERN FOR 14' WALL SEE SHEET 25.
3. STEEL FOR BRIDGE & WALL SHALL BE USED IN COMMON FOOTINGS.
4. EXTEND EXISTING SUBDRAIN THROUGH INVERT.
5. SEE SHEET 21 FOR BRIDGE DETAILS.
6. MONOLITHIC WALL & FOOTING.

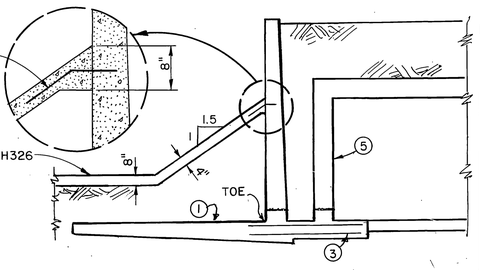


DETAIL "A"





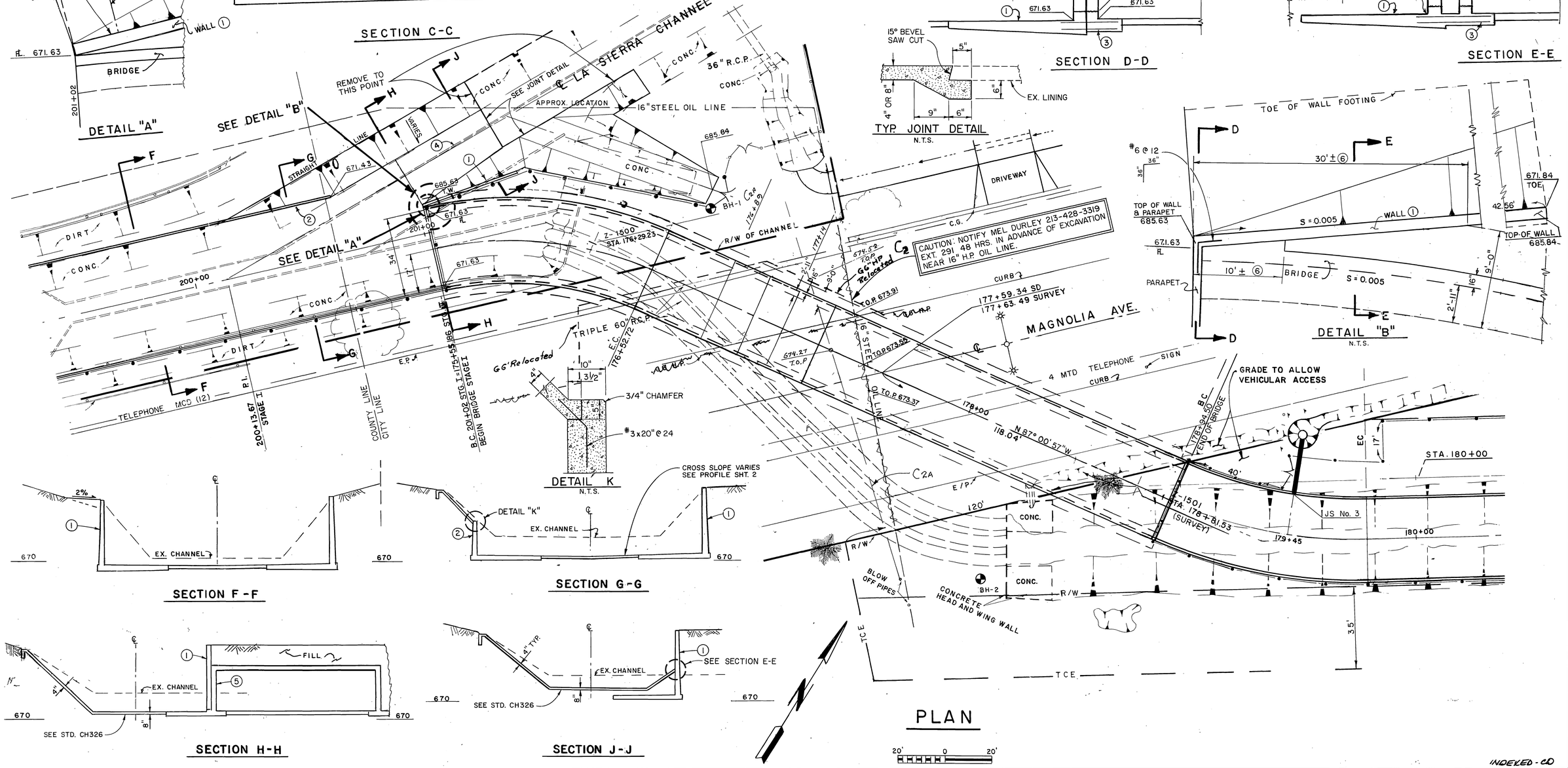
SECTION D-D



SECTION E-E

TYP. JOINT DETAIL
N.T.S.

DETAIL "B"
N.T.S.



PLAN

20' 0 20'

10' 0 10'

INDEXED - CO

BENCH MARK

REVISIONS			
REF.	DESCRIPTION	APPR.	DATE
C2a	16" Oil Leased Elev & Bride Change	KRB	11/8/96
C2	G6" H.P. Relocated	KRB	10/31/84

AS BUILT

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: A.E.P.	RECOMMENDED FOR APPROVAL BY:	APPROVED BY:
DRAWN BY: K.R.B	DESIGN ENGINEER R.E. NO. 16757	CHIEF ENGINEER R.E. NO. 12400
DATE DRAWN: 1984	DATE: 14 FEB 85	DATE: 2-20-85
CHECKED BY: F.J.P.		

ARLINGTON CHANNEL
STAGE II
MANGOLIA AVE. CROSSING
1970 STORM DRAIN BOND ISSUE PROJECT NO. 5-8

PROJECT NO.	1-0-020
DRAWING NO.	1-391
SHEET NO.	2A OF 64

D-606