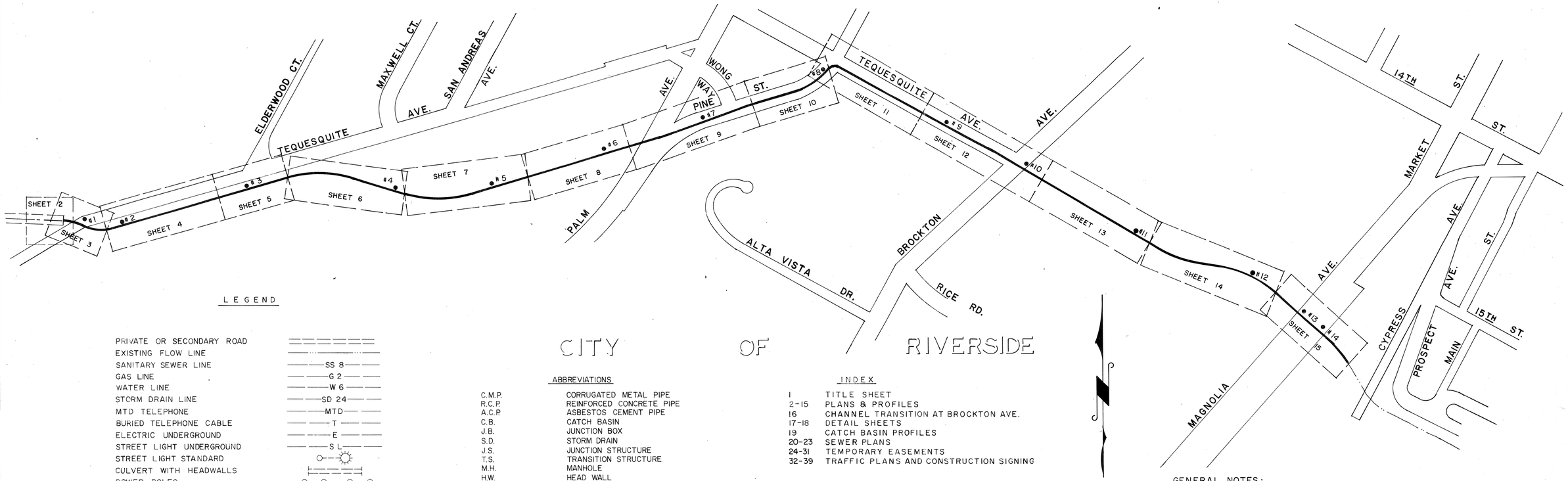
RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT



LEGEND

PRIVATE OR SECONDARY ROAD	
EXISTING FLOW LINE	
SANITARY SEWER LINE	SS 8
GAS LINE	G 2
WATER LINE	W 6
STORM DRAIN LINE	SD 24
MTD TELEPHONE	MTD
BURIED TELEPHONE CABLE	T
ELECTRIC UNDERGROUND	E
STREET LIGHT UNDERGROUND	S L
STREET LIGHT STANDARD	
CULVERT WITH HEADWALLS	
POWER POLES	
ANCHOR & POLE	
GAS METER	
WATER METER	
WATER VALVE	
FIRE HYDRANT	
MANHOLE	
FENCE (not chain link)	X
WALL - BLOCK OR MASONRY	
CATCH BASIN	
RIGHT OF WAY (flood control)	R/W
TEMPORARY CONST. EASEMENT	T.C.E.
STREET RIGHT OF WAY	
FENCE (chain link to be const.)	
FENCE (chain link exist.)	
SOIL TEST BORINGS	
WATER SURFACE	
HYDRAULIC GRADE LINE	
INLETS AND CONNECTOR PIPE	
FIELD LIGHTS	
CHAIN LINK FENCE	

CITY OF RIVERSIDE

ABBREVIATIONS

C.M.P.	CORRUGATED METAL PIPE
R.C.P.	REINFORCED CONCRETE PIPE
A.C.P.	ASBESTOS CEMENT PIPE
C.B.	CATCH BASIN
J.B.	JUNCTION BOX
S.D.	STORM DRAIN
J.S.	JUNCTION STRUCTURE
T.S.	TRANSITION STRUCTURE
M.H.	MANHOLE
H.W.	HEAD WALL
R.C.B.	REINFORCED CONCRETE BOX
T.W.	TOP OF WALL
F.L.	FLOW LINE
C. & G.	CURB AND GUTTER
A.C.	ASPHALTIC CONCRETE
T.P	TOP OF PAVEMENT
E.P	EDGE OF PAVEMENT
B.C.	BEGIN CURVE
E.C.	END CURVE
P.I.	POINT OF INTERSECTION
P.C.C.	POINT OF COMPOUND CURVE
P.R.C.	POINT OF REVERSE CURVE
B.V.C.	BEGIN VERTICAL CURVE
E.V.C.	END VERTICAL CURVE
P.V.I.	POINT OF VERTICAL INTERSECTION
P.R.V.C.	POINT OF REVERSE VERTICAL CURVE
G.S.	GAS SERVICE HOUSE CONNECTION
W.S.	WATER SERVICE HOUSE CONNECTION
C/R	CITY OF RIVERSIDE
L.D.	LOCAL DEPRESSION

INDEX

1	TITLE SHEET
2-15	PLANS & PROFILES
16	CHANNEL TRANSITION AT BROCKTON AVE.
17-18	DETAIL SHEETS
19	CATCH BASIN PROFILES
20-23	SEWER PLANS
24-31	TEMPORARY EASEMENTS
32-39	TRAFFIC PLANS AND CONSTRUCTION SIGNING

STANDARD DRAWINGS

40	CB100	CATCH BASIN NO. 1
"	LD201	LOCAL DEPRESSION NO. 2
41	CB105	DETAIL OF CATCH BASIN OPENING
"	CB106	CATCH BASIN REINFORCEMENT
42	JS226	JUNCTION STRUCTURE NO. 1
"	JS228	JUNCTION STRUCTURE NO. 3
43	MH253	MANHOLE NO. 3
"	MH255	MANHOLE FRAME AND COVER NON-ROCKING
44	MH257	MANHOLE SHAFT FOR CAST PIPE
"	CB 103	MANHOLE FRAME AND COVER FOR C. B.
45	CB 107	INLET TYPE IX (CHECKERED PLATE)
"	M 802	PIPE BEDDING DETAILS
46	MH259	STANDARD DROP STEP
"	M 810	CONSTRUCTION SIGNS
47	TS 301	TRANSITION STRUCTURE NO. 1
"	TS 302	TRANSITION STRUCTURE NO. 2
48	CH326	TRAPEZOIDAL CHANNEL DETAILS
49-51	CH327	RECTANGULAR CHANNEL STRUCTURAL DETAILS
52-53	CH329	TRANSITION STRUCTURAL DETAILS
54-55	BX401	SINGLE CELL R.C.B. STRUCTURAL DETAILS
56	BX402	DOUBLE CELL R.C.B. STRUCTURAL DETAILS
57	M 801	CHAIN LINK FENCE DETAILS
58	M 804	TIMBER BULKHEADS
59	M 809	CONSTRUCTION BARRICADES
"	M 811	SIGNS AND MARKERS

CITY OF RIVERSIDE STANDARD DRAWINGS

60	C/R500	MANHOLE
"	C/R540	MANHOLE CASTINGS
61	C/R560	STANDARD CLEANOUT

200 0 200

GENERAL NOTES:

1. ELEVATIONS SHOWN ARE IN FEET ABOVE THE U.S.G.S. MEAN SEA LEVEL DATUM.
2. DIMENSIONS FOR LOCATING CATCH BASINS ARE MEASURED FROM CURB RETURN TO CENTER LINE OF CATCH BASIN, UNLESS OTHERWISE SHOWN.
3. LOCATIONS OF CATCH BASIN CONNECTOR PIPE JUNCTIONS WITH CATCH BASINS AS SHOWN ON THE DRAWINGS ARE SCHEMATIC. IT IS INTENDED THAT SUCH JUNCTIONS BE LOCATED AT THE DOWNSTREAM ENDS OF THE CATCH BASINS, UNLESS OTHERWISE SHOWN. IN ALL CASES, THE EXACT LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER TO MEET FIELD CONDITIONS.
4. EXISTING UTILITIES SHALL BE PROTECTED IN PLACE BY THE CONTRACTOR, UNLESS OTHERWISE NOTED.
5. LOCATIONS SHOWN ON THE PLANS FOR EXISTING SANITARY SEWER HOUSE CONNECTIONS ARE APPROXIMATE ONLY.
6. ALL OPENINGS RESULTING FROM CUTTING OR PARTIAL REMOVAL OF EXISTING CULVERTS, PIPES OR SIMILAR STRUCTURES SHALL BE SEALED WITH 8 INCHES OF BRICK AND MORTAR OR 6 INCHES OF CONCRETE, UNLESS OTHERWISE SHOWN.
7. ALL CURBS, GUTTERS, SIDEWALKS, DRIVEWAYS AND OTHER IMPROVEMENTS SHALL BE RECONSTRUCTED TO THEIR ORIGINAL GRADE, ELEVATION AND LOCATION UNLESS OTHERWISE NOTED.
8. FOR RIGHT OF WAY DATA REFER TO SHEETS 24 THRU 31.
9. SOIL TEST BORING FOR THIS PROJECT WERE MADE SEPTEMBER 1971.
10. PIPE CONNECTIONS TO MAIN LINE SHALL CONFORM TO STANDARD DRAWINGS J. S. NO. 3 AND J. S. NO. 4. UNLESS OTHERWISE SHOWN.
11. PAVEMENT REPLACEMENT SHALL BE 3" OF ASPHALTIC CONCRETE AND 6" OF CLASS III BASE.

PLAN

1"=200'

200' 0 200'

J.F. DAVIDSON ASSOCIATES
CIVIL ENGINEERS SURVEYORS PLANNERS
3426 TENTH STREET RIVERSIDE, CALIFORNIA

APPROVED BY: John W. Centy
REGISTERED CIVIL ENGINEER NO. 17550
DATE: JANUARY 1973

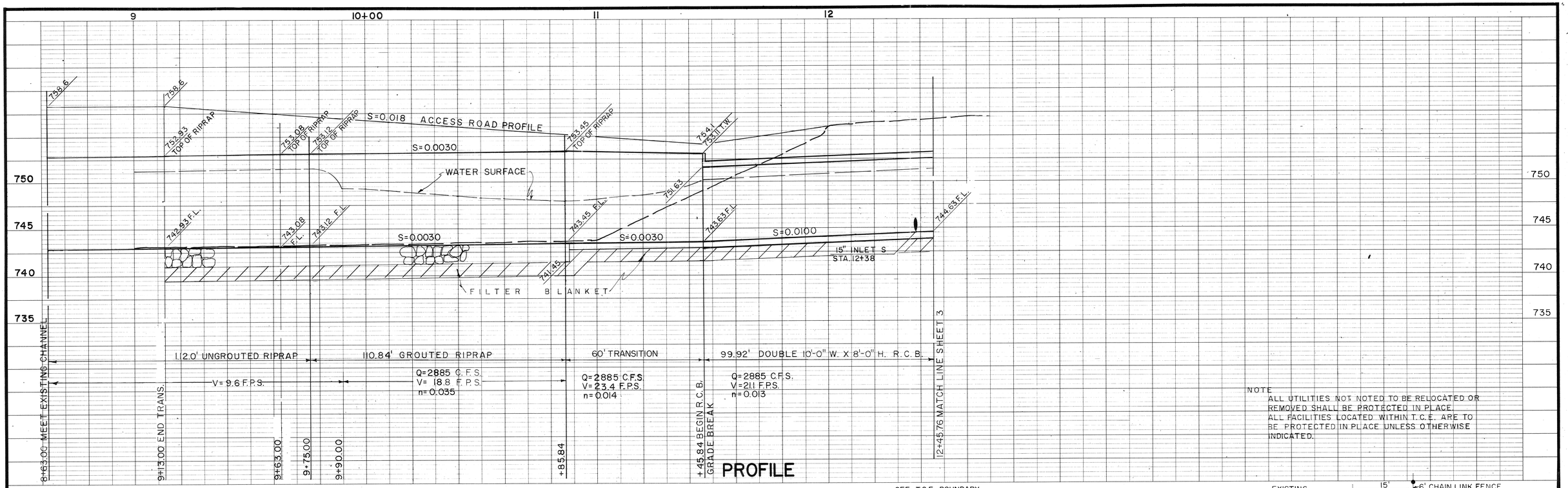
REVISIONS			
REF.	DESCRIPTION	APPR.	DATE

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

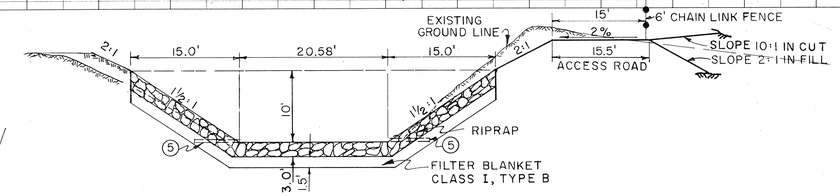
DESIGNED BY:
DRAWN BY:
DATE DRAWN:
CHECKED BY:
APPROVED BY:
CHIEF ENGINEER R.E. NO. 8822
DATE:

BOX SPRINGS DRAIN
STAGE I
TITLE SHEET
1970 STORM DRAIN BOND ISSUE PROJECT NO. 6

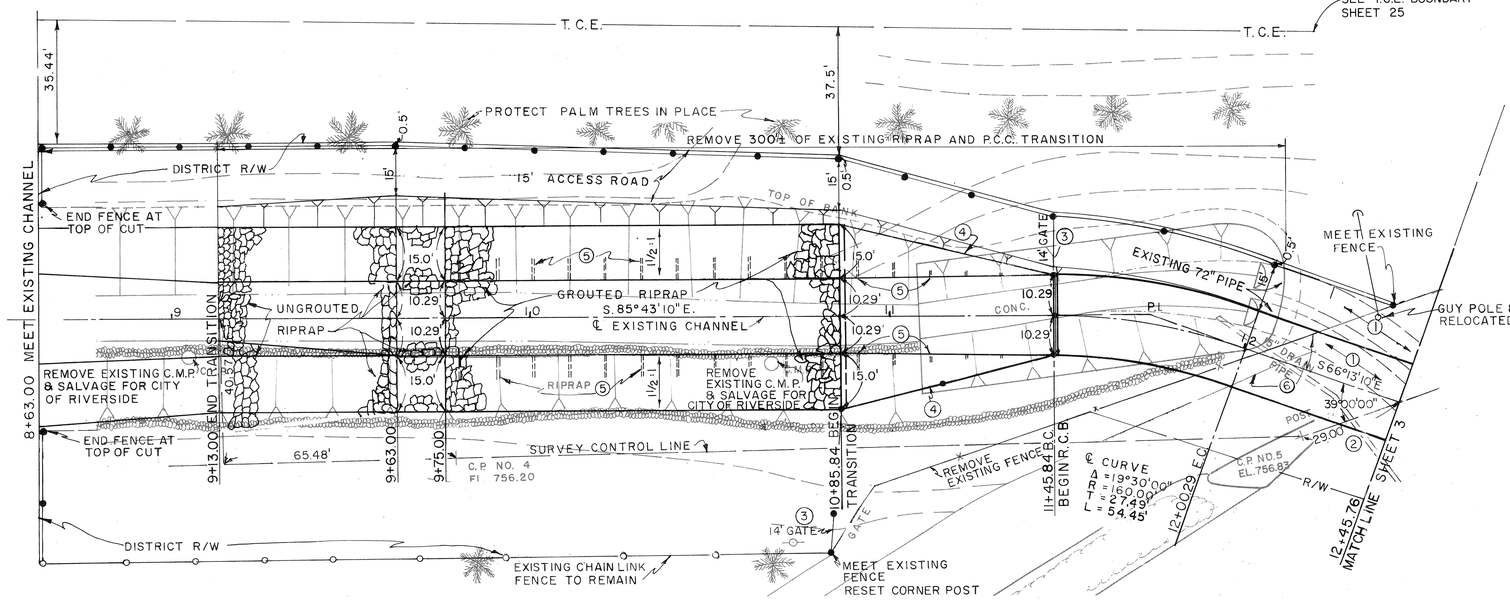
PROJECT NO. 1-0-220
DRAWING NO. 1-287
SHEET NO. 1 OF 61



NOTE
ALL UTILITIES NOT NOTED TO BE RELOCATED OR REMOVED SHALL BE PROTECTED IN PLACE.
ALL FACILITIES LOCATED WITHIN T.C.E. ARE TO BE PROTECTED IN PLACE UNLESS OTHERWISE INDICATED.



TYPICAL SECTION RIPRAP CHANNEL



NOTE

1. REMOVE EXISTING 72" S. D. PIPE.
2. STA. 12+38 REMOVE 55' OF EXISTING 15" DRAIN AND CONNECT TO R. C. B.
3. PLACE 14' GATE IN 6' CHAIN LINK FENCE.
4. CONSTRUCT 6" X 24" CUTOFF WALL PER TYPICAL TRAPEZOIDAL CHANNEL DETAILS. (SEE TRANSITION STRUCTURE DETAILS, SHEET 52.)
5. PLACE 4" STEEL PIPE AT APPROXIMATELY 10' ON CENTER AS DIRECTED BY ENGINEER.
6. • REMOVE AND REPLACE A. C. BERM

PLAN

1" = 20'

20' 0 20'

BENCH MARK C.P. NO. 5
NAIL AND FLASH AND TAG ON ℄ OF TESQUESQUITE AVE.
EL. 756.83

SCALE: 1" = 5' VERTICAL
1" = 20' HORIZONTAL

DATE:

J. F. DAVIDSON ASSOCIATES
CIVIL ENGINEERS SURVEYORS PLANNERS
3426 TENTH STREET RIVERSIDE, CALIFORNIA

APPROVED BY: John W Canty
REGISTERED CIVIL ENGINEER NO. 17550

DATE: JANUARY 1973

REVISIONS			
REF.	DESCRIPTION	APPR.	DATE

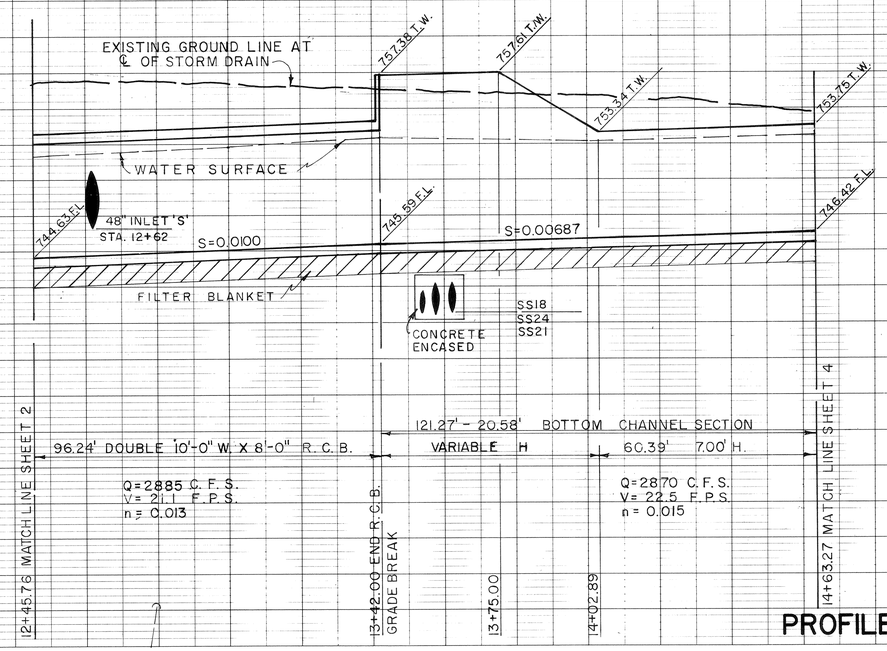
RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY:
DRAWN BY:
DATE DRAWN:
CHECKED BY:

APPROVED BY:
CHIEF ENGINEER R.E. NO. 8822
DATE:

BOX SPRINGS DRAIN
STAGE I
STA. 9+13.00 TO STA. 12+45.76
1970 STORM DRAIN BOND ISSUE PROJECT NO. 6

PROJECT NO. 1-0-220
DRAWING NO. 1-287
SHEET NO. 2 OF 61



PROFILE

NOTE
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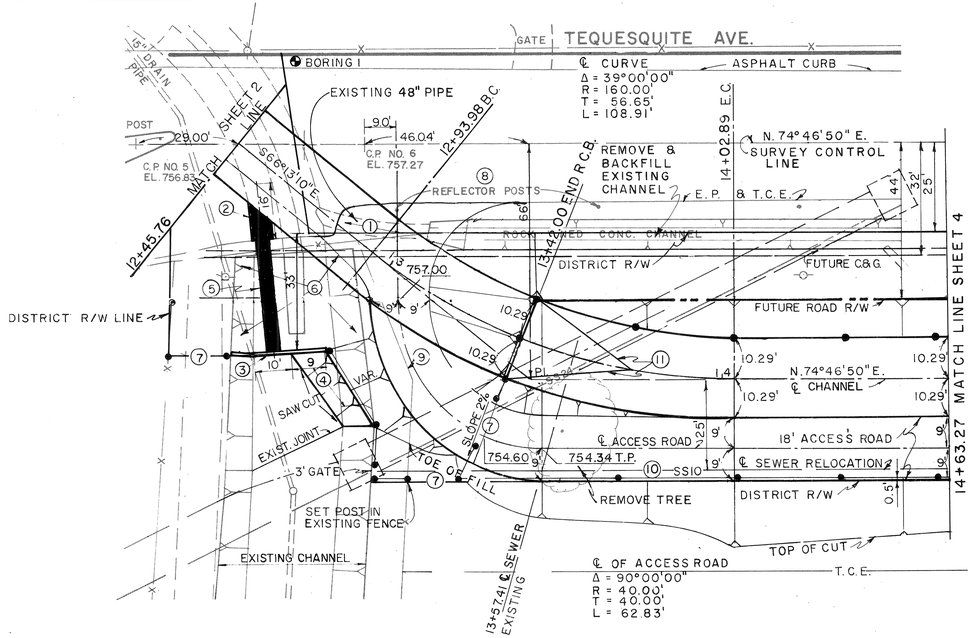
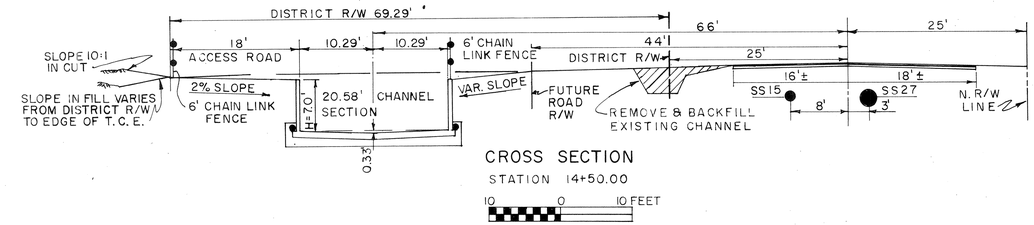
ALL FACILITIES LOCATED WITHIN T.C.E. ARE TO BE PROTECTED IN PLACE UNLESS OTHERWISE INDICATED.



PLAN

1" = 20'

20' 0 20'



CROSS SECTION

STATION 14+50.00

10 0 10 FEET

NOTES

1. REMOVE EXISTING 48" S. D. PIPE.
2. STA. 12+62 J. S. NO. 1, A=45°, B=48", C=16', S=746.95, R=747.22.
3. CONSTRUCT H. W. AT EXISTING JOINT FOR 32' OF 48" R.C.P. PER DETAIL SHEET 17.
4. CONSTRUCT 4" NONREINFORCED CONCRETE SLOPE PAVING.
5. PLACE 32' OF 48" R.C.P. CLASS IV.
6. REMOVE EXISTING HEADWALL & CHANNEL AND BACKFILL AS DIRECTED.
7. PLACE 14' GATE IN 6' CHAIN LINK FENCE.
8. REFLECTOR POSTS TO BE REMOVED AND SALVAGED FOR C/R TOTAL 3 THIS SHEET.
9. REMOVE EXISTING FENCE.
10. ℄ SEWER RELOCATION. SEE SHEET 20. FOR SEWER PLAN
11. TRANSITION FROM FLAT BOTTOM AT R.C.B. TO STANDARD SECTION AT 13+75.

BENCH MARK C.P. NO. 5
NAIL AND FLASH AND TAG ON ℄ OF TESQUESQUITE AVE.
EL. 756.83

SCALE: 1" = 5' VERTICAL
1" = 20' HORIZONTAL

DATE:

J. F. DAVIDSON ASSOCIATES
CIVIL ENGINEERS SURVEYORS PLANNERS
3426 TENTH STREET RIVERSIDE, CALIFORNIA

APPROVED BY:
REGISTERED CIVIL ENGINEER NO. 17550
DATE: JANUARY 1973

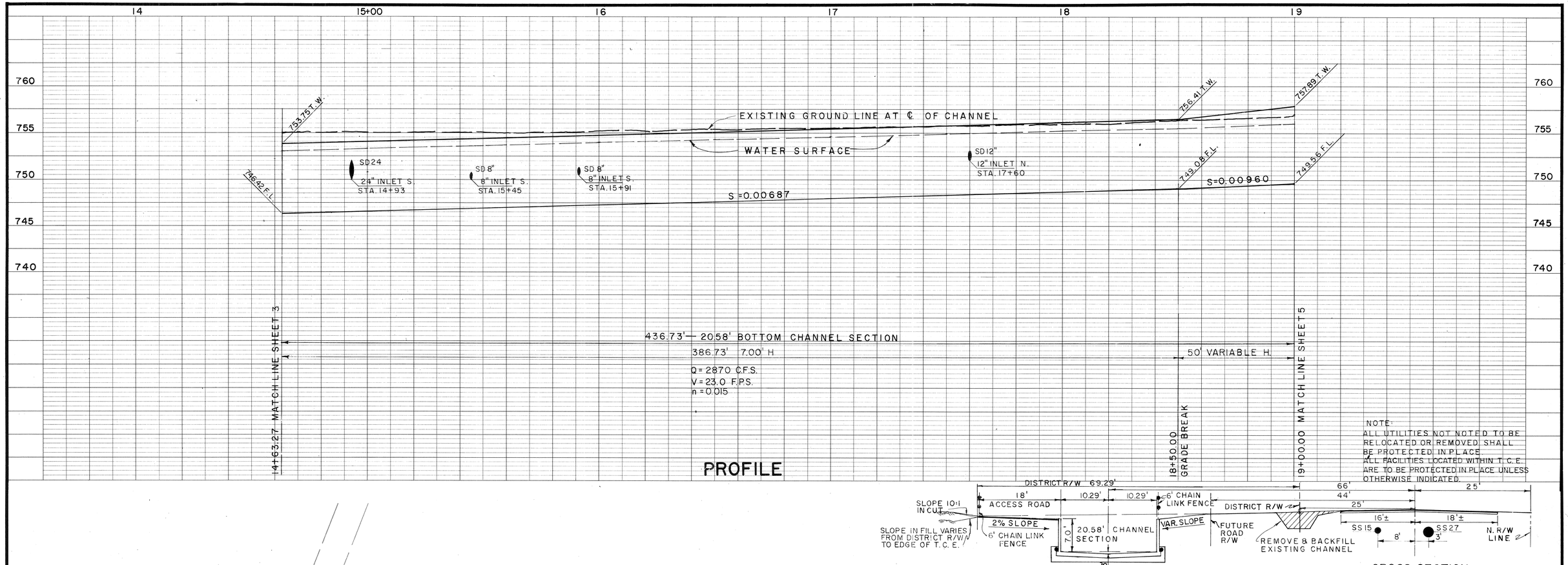
REVISIONS			
REF.	DESCRIPTION	APPR.	DATE

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY:
DRAWN BY:
DATE DRAWN:
CHECKED BY:
APPROVED BY:
CHIEF ENGINEER R.E. NO. 8822
DATE:

BOX SPRINGS DRAIN
STAGE I
STA. 12+45.76 TO STA. 14+63.27
1970 STORM DRAIN BOND ISSUE PROJECT NO. 6

PROJECT NO 1-0-220
DRAWING NO. 1-287
SHEET NO. 3 OF 61



NOTE:
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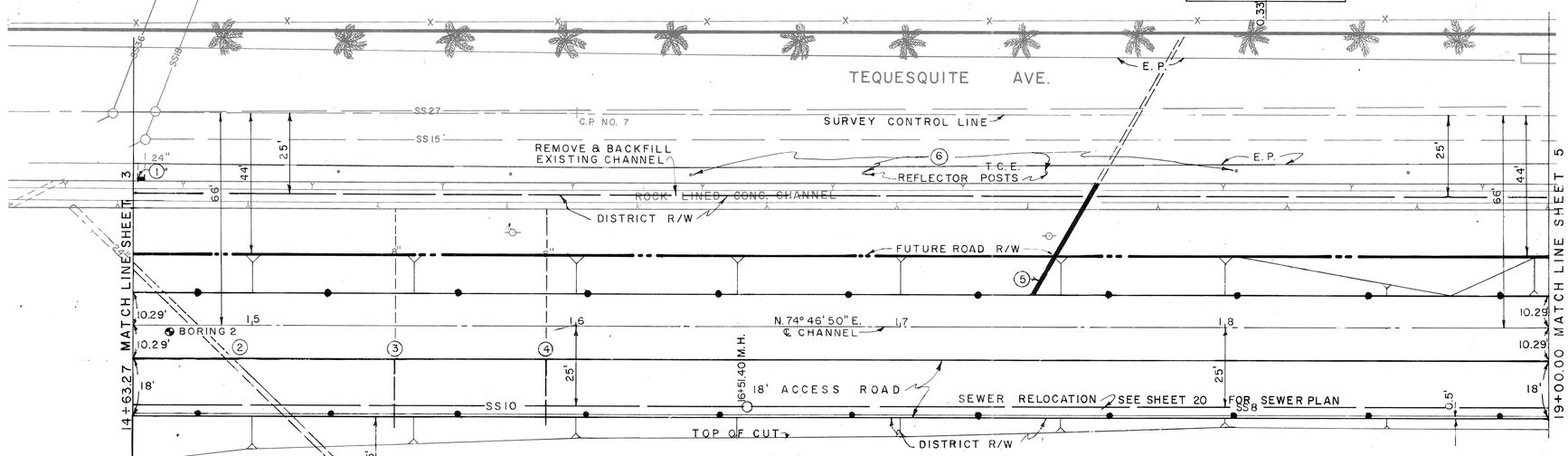
CROSS SECTION

STATION 18+00.00

10 0 10 FEET



1. STA. 14+66± PLUG EXISTING 24" DRAIN WITH 6" OF CONCRETE.
2. STA. 14+93± REMOVE 35' OF 24" EXISTING DRAIN AND CONNECT TO R.C. CHANNEL (J.S. NO. 3)
3. STA. 15+45± REMOVE 35' OF 8" EXISTING DRAIN AND CONNECT TO R.C. CHANNEL (J.S. NO. 3)
4. STA. 15+91± REMOVE 35' OF 8" EXISTING DRAIN AND CONNECT TO R.C. CHANNEL (J.S. NO. 3)
5. STA. 17+40± CONNECT EXISTING DRAIN WITH 40' OF 18" R.C.P. CL. IV (J.S. NO. 3)
6. REFLECTOR POSTS TO BE REMOVED AND SALVAGED FOR C/R. TOTAL 8 THIS SHEET

PLAN

1" = 20'

20' 0 20'

BENCH MARK C.P. NO. 7 NAIL AND FLASH AND TAG ON ℄ OF TEQUESQUITE AVE. EL. 757.74	J.F. DAVIDSON ASSOCIATES CIVIL ENGINEERS SURVEYORS PLANNERS 3426 TENTH STREET RIVERSIDE, CALIFORNIA	REVISIONS	RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
SCALE: 1" = 5' VERTICAL 1" = 20' HORIZONTAL	APPROVED BY:	REF. DESCRIPTION APPR. DATE	DESIGNED BY: APPROVED BY:
DATE:	DATE: JANUARY 1973 REGISTERED CIVIL ENGINEER NO. 17550		DRAWN BY: CHIEF ENGINEER R.E. NO. 8822
			DATE DRAWN: DATE:
			CHECKED BY:

BOX SPRINGS DRAIN

STAGE I

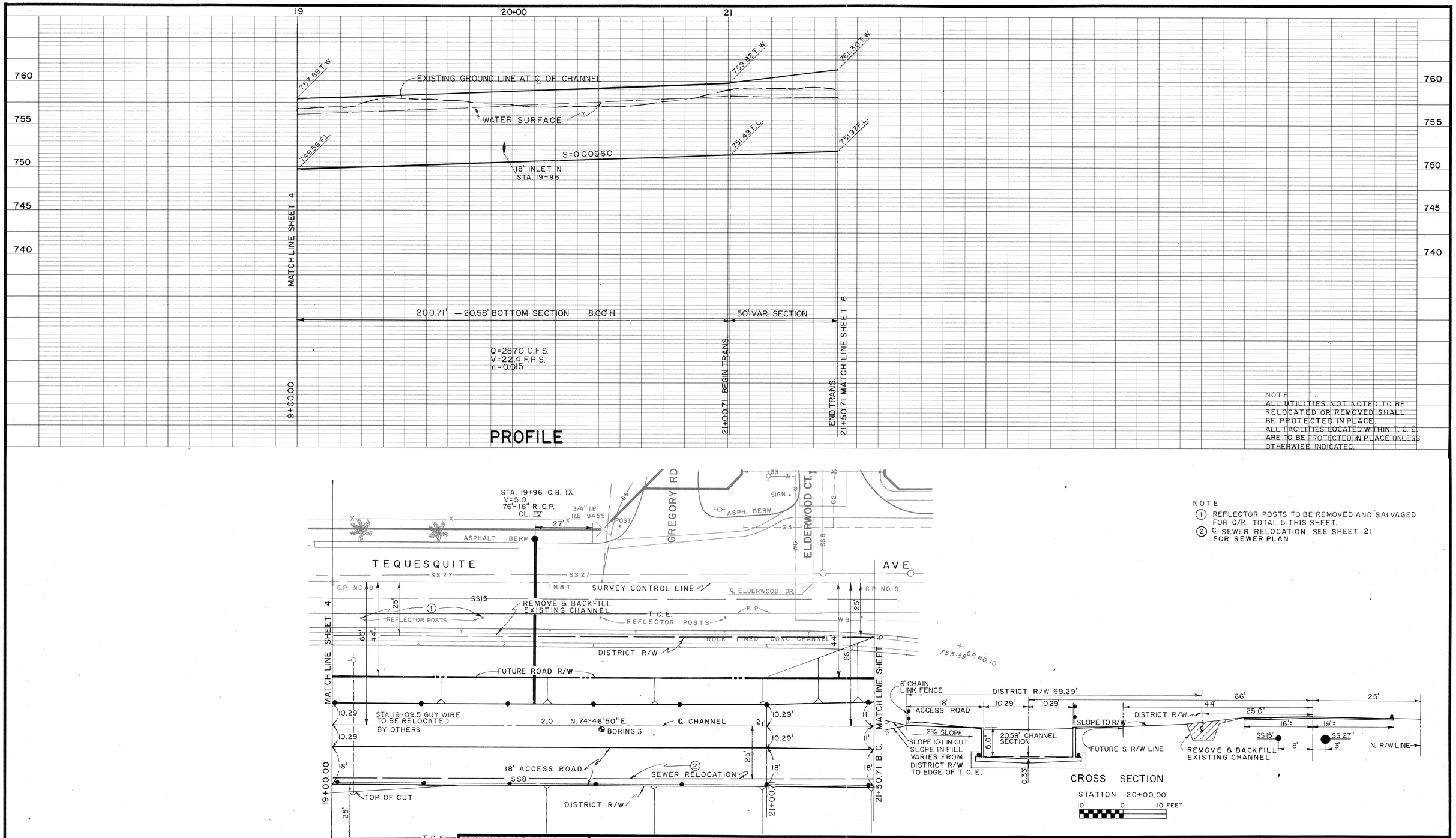
STA. 14+63.27 TO STA. 19+00.00

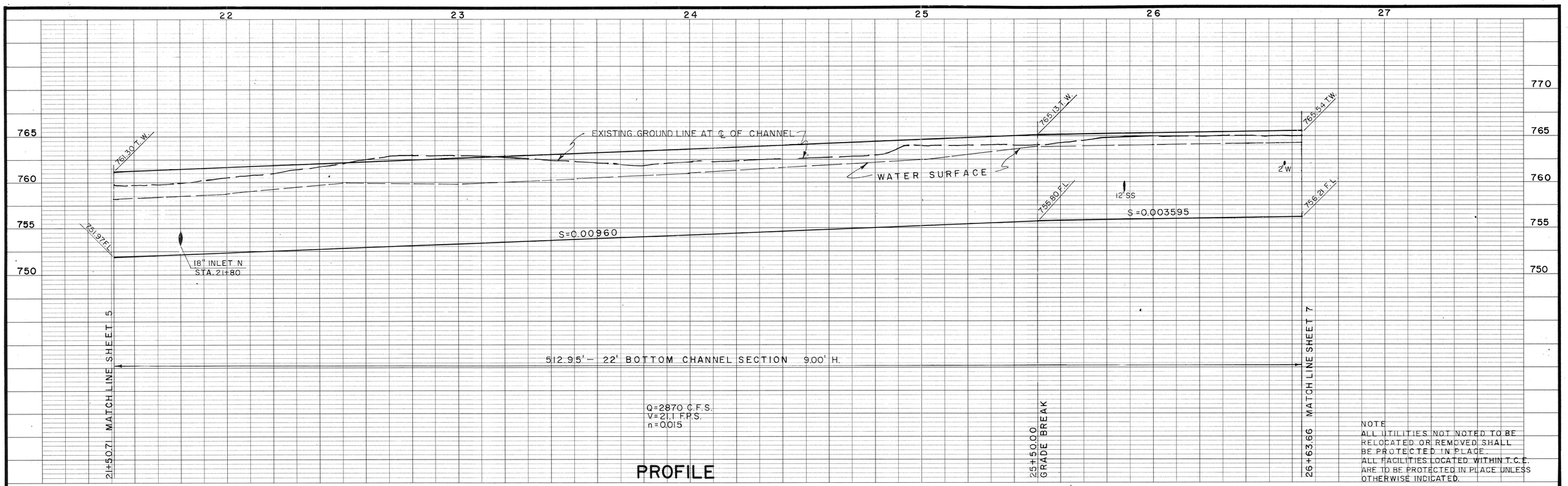
1970 STORM DRAIN BOND ISSUE PROJECT NO. 6

PROJECT NO. 1-0-220

DRAWING NO. 1-287

SHEET NO. 4 OF 61


19
20+00
21
760
755
750
745
740
757.89 T.W.
759.92 T.W.
761.30 T.W.
EXISTING GROUND LINE AT ℄ OF CHANNEL
WATER SURFACE
749.56 F.L.
751.49 F.L.
751.97 F.L.
S=0.00960
18" INLET IN
STA. 19+96
MATCH LINE SHEET 4
200.71' — 20.58' BOTTOM SECTION 8.00' H.
50' VAR. SECTION
Q=2870 C.F.S.
V=22.4 F.P.S.
n=0.015
19+00.00
21+00.71 BEGIN TRANS.
END TRANS.
21+50.71 MATCH LINE SHEET 6
PROFILE
NOTE
ALL UTILITIES NOT NOTED TO BE RELOCATED OR REMOVED SHALL BE PROTECTED IN PLACE.
ALL FACILITIES LOCATED WITHIN T. C. E. ARE TO BE PROTECTED IN PLACE UNLESS OTHERWISE INDICATED.
STA. 19+96 C.B. IX
V=5.0'
76'-18" R.C.P.
CL. IV
3/4" I.P.
RE. 9455
POST
27'
ASPHALT BERM
GREGORY RD
ELDERWOOD CT.
SIGN
ASPH. BERM
TEQUESQUITE
AVE.
SS 27
C.P. NO. 8
N&T
SURVEY CONTROL LINE
℄ ELDERWOOD DR.
C.P. NO. 9
SS15
REMOVE & BACKFILL EXISTING CHANNEL
T.C.E.
E.P.
REFLECTOR POSTS
ROCK LINED CONC. CHANNEL
DISTRICT R/W
FUTURE ROAD R/W
755.59 C.P. NO. 10
MATCH LINE SHEET 6
STA. 19+09.5 GUY WIRE TO BE RELOCATED BY OTHERS
N. 74°46'50" E.
℄ CHANNEL
BORING 3
18' ACCESS ROAD
SEWER RELOCATION
SS8
TOP OF CUT
19+00.00
21+00.71
21+50.71 B.C.
T.C.E.
PLAN
1"=20'
20' 0 20'
NOTE
1 REFLECTOR POSTS TO BE REMOVED AND SALVAGED FOR C/R. TOTAL 5 THIS SHEET.
2 ℄ SEWER RELOCATION. SEE SHEET 21 FOR SEWER PLAN
6' CHAIN LINK FENCE
DISTRICT R/W 69.29'
ACCESS ROAD
SLOPE TO R/W
2% SLOPE
SLOPE 10:1 IN CUT
SLOPE IN FILL VARIES FROM DISTRICT R/W TO EDGE OF T.C.E.
20.58' CHANNEL SECTION
FUTURE S. R/W LINE
REMOVE & BACKFILL EXISTING CHANNEL
N. R/W LINE
CROSS SECTION
STATION 20+00.00
10' 0 10 FEET
BENCH MARK C.P. NO. 10
NAIL AND FLASH AND TAG
NORTH EDGE EXIST. CHANNEL
EL. 759.84
SCALE: 1" = 5' VERTICAL
1" = 20' HORIZONTAL
DATE:
J. F. DAVIDSON ASSOCIATES
CIVIL ENGINEERS SURVEYORS PLANNERS
3426 TENTH STREET RIVERSIDE, CALIFORNIA
APPROVED BY:
REGISTERED CIVIL ENGINEER NO. 17550
DATE: JANUARY 1973
REVISIONS
REF. DESCRIPTION APPR. DATE
RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
DESIGNED BY:
DRAWN BY:
DATE DRAWN:
CHECKED BY:
APPROVED BY:
CHIEF ENGINEER R.E. NO. 8822
DATE:
BOX SPRINGS DRAIN
STAGE I
STA. 19+00.00 TO STA. 21+50.71
1970 STORM DRAIN BOND ISSUE PROJECT NO. 6
PROJECT NO. 1-0-220
DRAWING NO. 1-287
SHEET NO. 5 OF 61



PROFILE

NOTE
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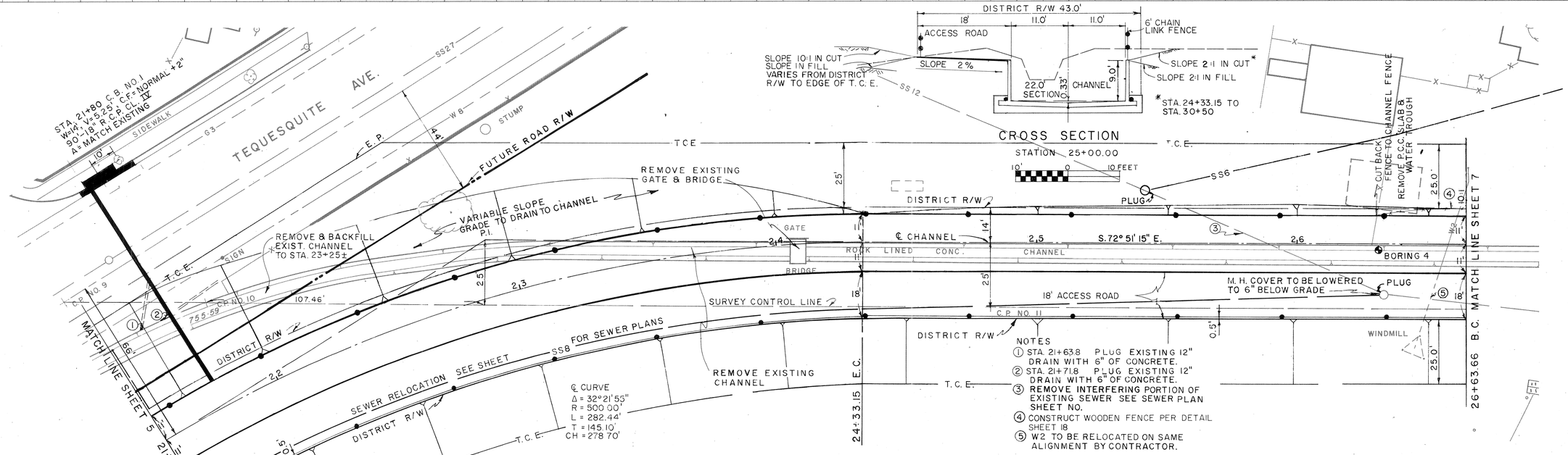


PLAN
1"=20'

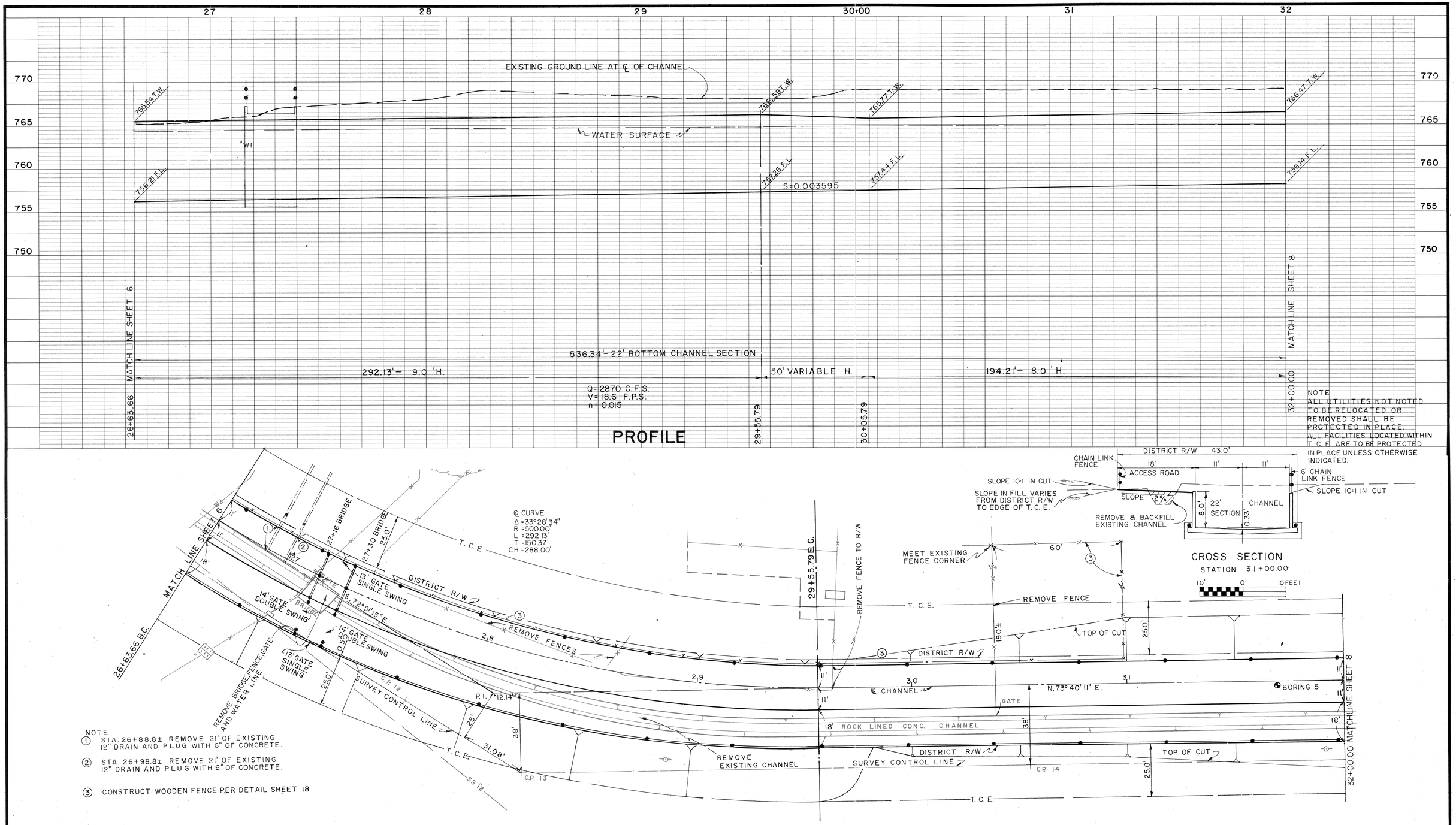
CROSS SECTION
STATION 25+00.00

NOTES
1. STA. 21+63.8 PLUG EXISTING 12" DRAIN WITH 6" OF CONCRETE.
2. STA. 21+71.8 PLUG EXISTING 12" DRAIN WITH 6" OF CONCRETE.
3. REMOVE INTERFERING PORTION OF EXISTING SEWER SEE SEWER PLAN SHEET NO.
4. CONSTRUCT WOODEN FENCE PER DETAIL SHEET 18
5. W2 TO BE RELOCATED ON SAME ALIGNMENT BY CONTRACTOR.

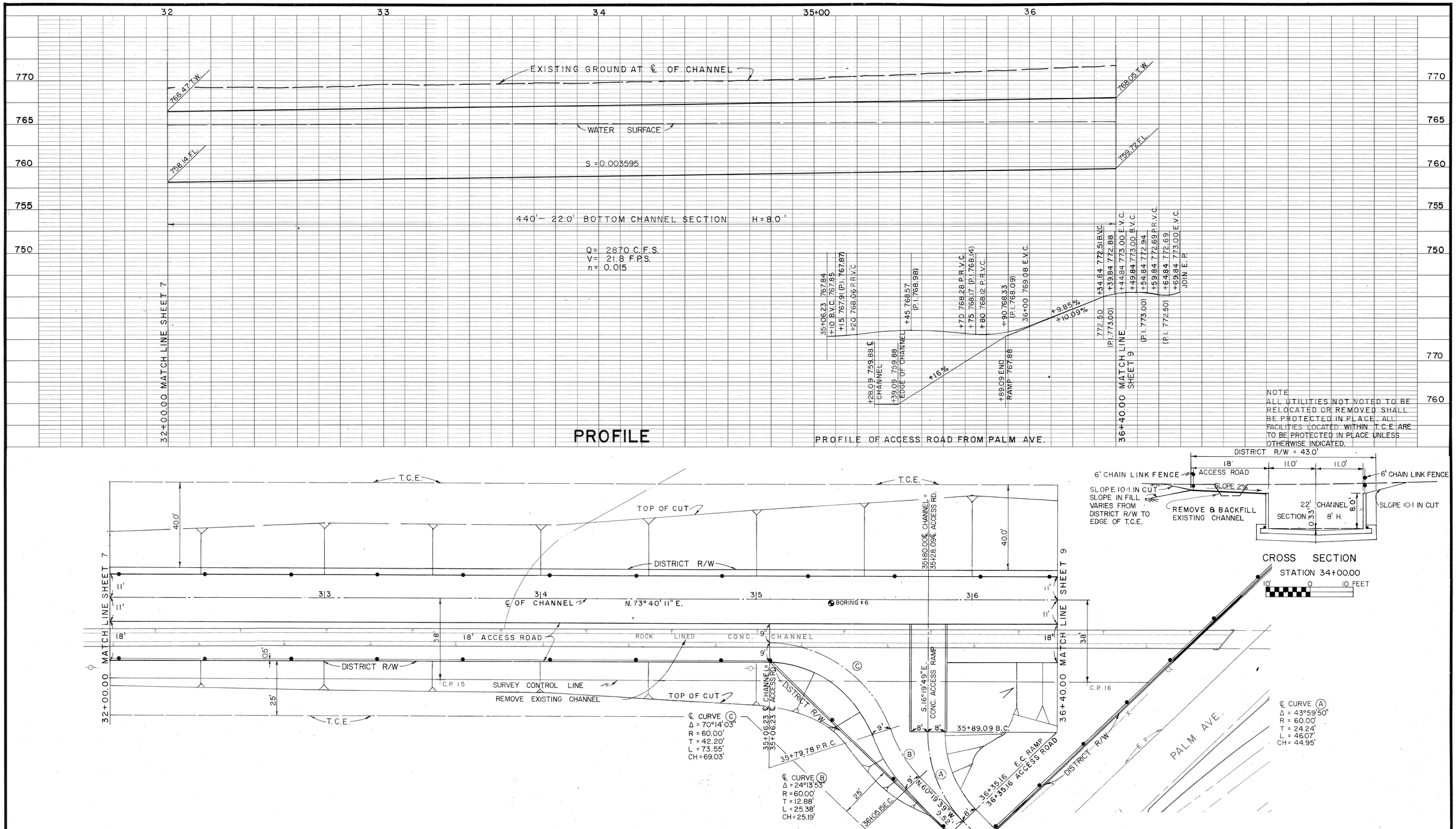
BENCH MARK C.P. NO. 10 NAIL AND FLASH AND TAG NORTH EDGE EXIST. CHANNEL EL. 759.84	J. F. DAVIDSON ASSOCIATES CIVIL ENGINEERS SURVEYORS PLANNERS 3426 TENTH STREET RIVERSIDE, CALIFORNIA	REVISIONS REF. DESCRIPTION APPR. DATE	RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT DESIGNED BY: DRAWN BY: DATE DRAWN: CHECKED BY:
SCALE: 1" = 5 VERTICAL 1" = 20 HORIZONTAL DATE:	APPROVED BY: REGISTERED CIVIL ENGINEER NO. 17550 DATE: JANUARY 1973		APPROVED BY: CHIEF ENGINEER R.E. NO. 8822 DATE:

BOX SPRINGS DRAIN
STAGE I
STA. 21+50.71 TO STA. 26+63.66
1970 STORM DRAIN BOND ISSUE PROJECT NO. 6

PROJECT NO. 1-0-220
DRAWING NO. 1-287
SHEET NO. 6 OF



BENCH MARK C.P. NO. 13 3/4" I P WITH CAP EL. 765.08	J. F. DAVIDSON ASSOCIATES CIVIL ENGINEERS SURVEYORS PLANNERS 3426 TENTH STREET RIVERSIDE, CALIFORNIA	REVISIONS	RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	BOX SPRINGS DRAIN STAGE I STA. 26+63.66 TO STA. 32+00.00 1970 STORM DRAIN BOND ISSUE PROJECT NO. 6	PROJECT NO. 1-0-220
SCALE: 1"= 5' VERTICAL 1"= 20' HORIZONTAL	APPROVED BY: John W. Cantry REGISTERED CIVIL ENGINEER NO. 17550	REF. DESCRIPTION APPR. DATE	DESIGNED BY: DRAWN BY: DATE DRAWN: CHECKED BY:	APPROVED BY: CHIEF ENGINEER R.E. NO. 8822 DATE:	DRAWING NO. 1-287
DATE:	DATE: JANUARY 1973				SHEET NO. 7 OF



PLAN

1" = 20'

20' 0 20'

BENCH MARK C.P. NO. 16 3/4" I.P. WITH CAP EL. 771.99	J. F. DAVIDSON ASSOCIATES CIVIL ENGINEERS SURVEYORS PLANNERS 3426 TENTH STREET RIVERSIDE, CALIFORNIA	REVISIONS	RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
SCALE: 1" = 5' VERTICAL 1" = 20' HORIZONTAL	APPROVED BY: John W. Cantly DATE: JANUARY 1973 REGISTERED CIVIL ENGINEER NO. 17550	REF. DESCRIPTION APPR. DATE	DESIGNED BY: DRAWN BY: DATE DRAWN: CHECKED BY: APPROVED BY: CHIEF ENGINEER R.E. NO. 8822 DATE:
DATE:			

BOX SPRINGS DRAIN

STAGE I

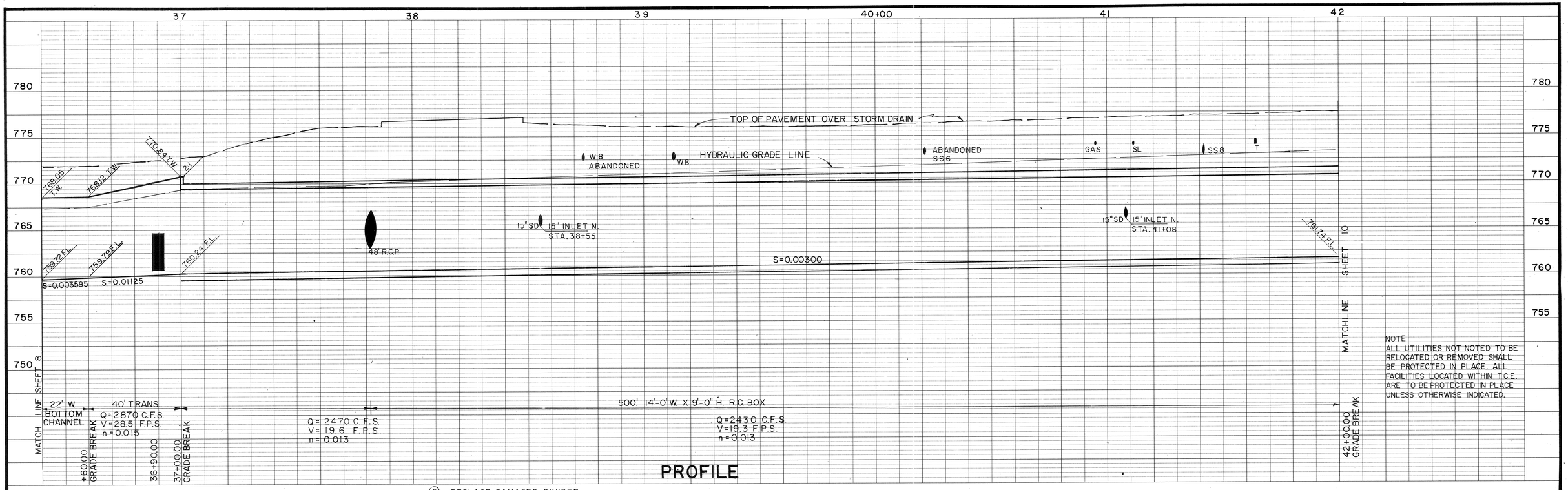
STA. 32+00.00 TO STA. 36+40.00

1970 STORM DRAIN BOND ISSUE PROJECT NO. 6

PROJECT NO. 1-0-220

DRAWING NO. 1-287

SHEET NO. 8 OF 61

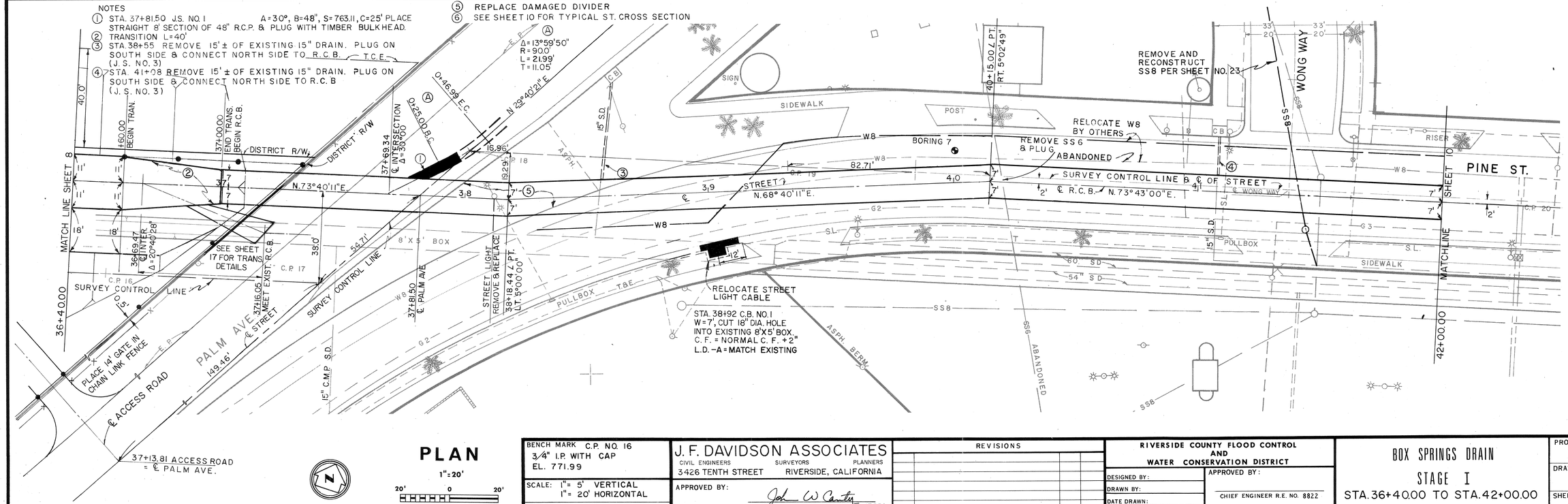


NOTE
ALL UTILITIES NOT NOTED TO BE RELOCATED OR REMOVED SHALL BE PROTECTED IN PLACE. ALL FACILITIES LOCATED WITHIN T.C.E. ARE TO BE PROTECTED IN PLACE UNLESS OTHERWISE INDICATED.

PROFILE

NOTES

1. STA. 37+81.50 J.S. NO. 1 — A=30°, B=48", S=763.11, C=25' PLACE STRAIGHT 8' SECTION OF 48" R.C.P. & PLUG WITH TIMBER BULKHEAD.
2. TRANSITION L=40'
3. STA. 38+55 REMOVE 15" ± OF EXISTING 15" DRAIN. PLUG ON SOUTH SIDE & CONNECT NORTH SIDE TO R.C.B. (J.S. NO. 3) — T.C.E.
4. STA. 41+08 REMOVE 15' ± OF EXISTING 15" DRAIN. PLUG ON SOUTH SIDE & CONNECT NORTH SIDE TO R.C.B (J.S. NO. 3)
5. REPLACE DAMAGED DIVIDER
6. SEE SHEET 10 FOR TYPICAL ST. CROSS SECTION



PLAN

1"=20'

20' 0 20'

BENCH MARK C.P. NO. 16 3¼" I.P. WITH CAP EL. 771.99	J. F. DAVIDSON ASSOCIATES CIVIL ENGINEERS — SURVEYORS — PLANNERS 3426 TENTH STREET — RIVERSIDE, CALIFORNIA	REVISIONS REF. — DESCRIPTION — APPR. — DATE	RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
SCALE: 1"= 5' VERTICAL 1"= 20' HORIZONTAL	APPROVED BY: John W. Cantley REGISTERED CIVIL ENGINEER NO. 17550		DESIGNED BY: DRAWN BY: DATE DRAWN: CHECKED BY:
DATE:	DATE: JANUARY 1973		APPROVED BY: CHIEF ENGINEER R.E. NO. 8822 DATE:

BOX SPRINGS DRAIN

STAGE I

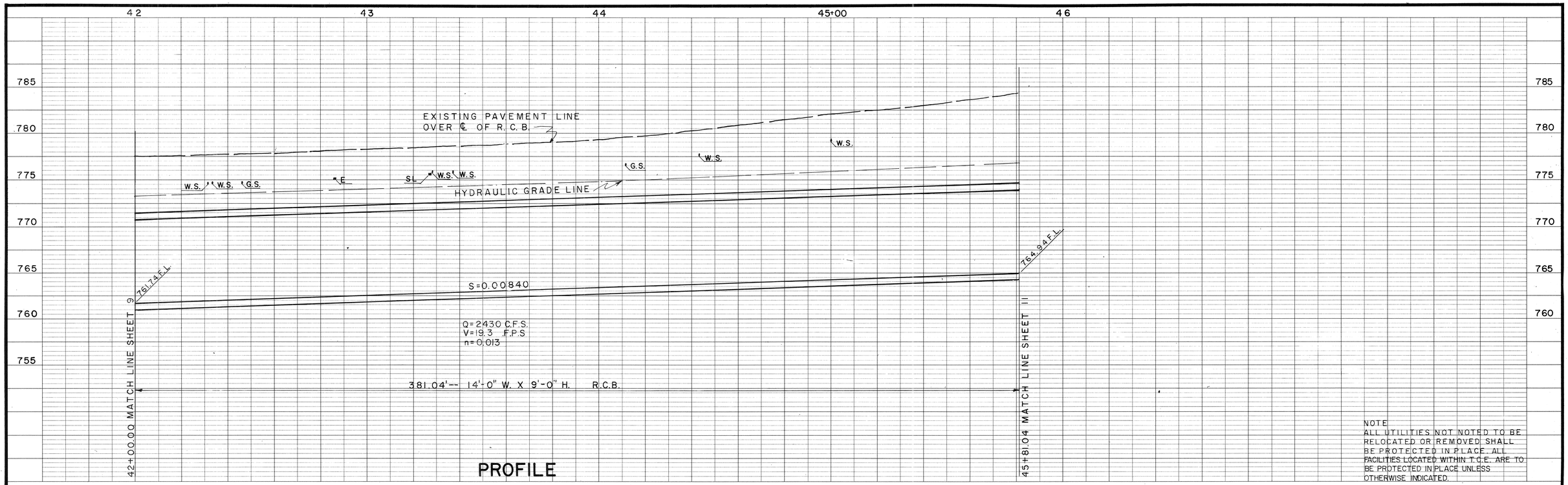
STA. 36+40.00 TO STA. 42+00.00

1970 STORM DRAIN BOND ISSUE PROJECT NO. 6

PROJECT NO. 1-0-220

DRAWING NO. 1-287

SHEET NO. 9 OF 61



BENCH MARK C.P. NO. 22 X CHISELED ON TOP OF WEST CURB ON PINE ST. EL. 782.81	J. F. DAVIDSON ASSOCIATES CIVIL ENGINEERS SURVEYORS PLANNERS 3426 TENTH STREET RIVERSIDE, CALIFORNIA	REVISIONS	RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
SCALE: 1"= 5' VERTICAL 1"= 20' HORIZONTAL	APPROVED BY: John W Carter REGISTERED CIVIL ENGINEER NO. 17550	REF. DESCRIPTION APPR. DATE	DESIGNED BY: DRAWN BY: DATE DRAWN: CHECKED BY:
DATE:	DATE: JANUARY 1973		APPROVED BY: CHIEF ENGINEER R.E. NO. 8822 DATE:

BOX SPRINGS DRAIN

STAGE I

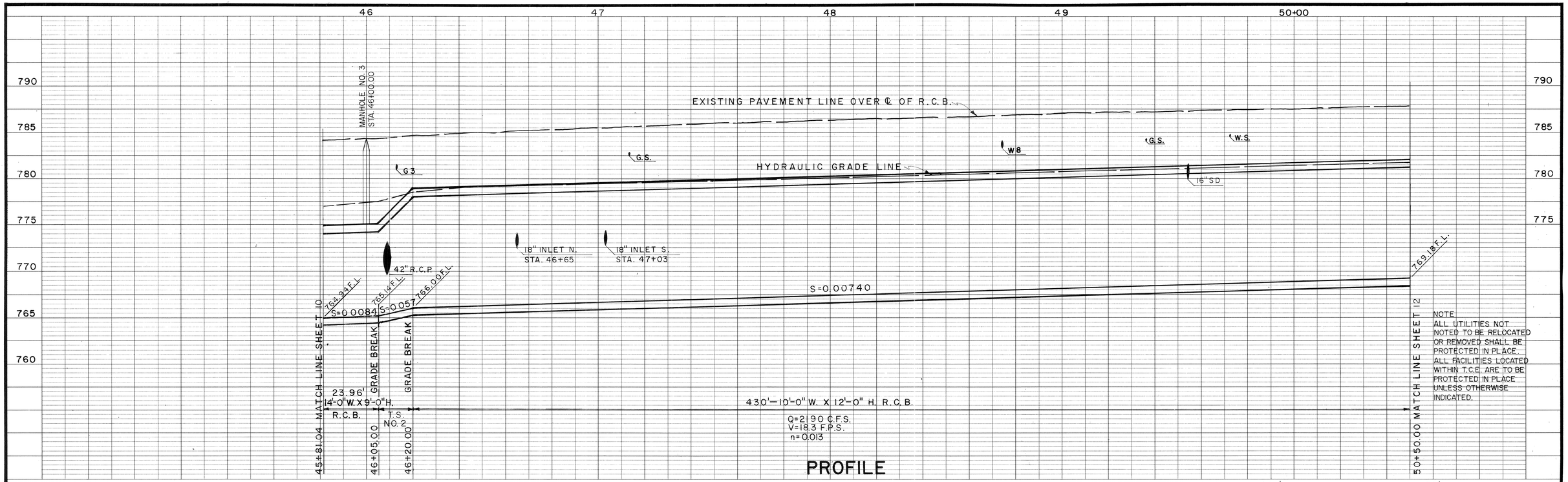
STA. 42+00.00 TO STA. 45+81.04

1970 STORM DRAIN BOND ISSUE PROJECT NO. 6

PROJECT NO. 1-0-220

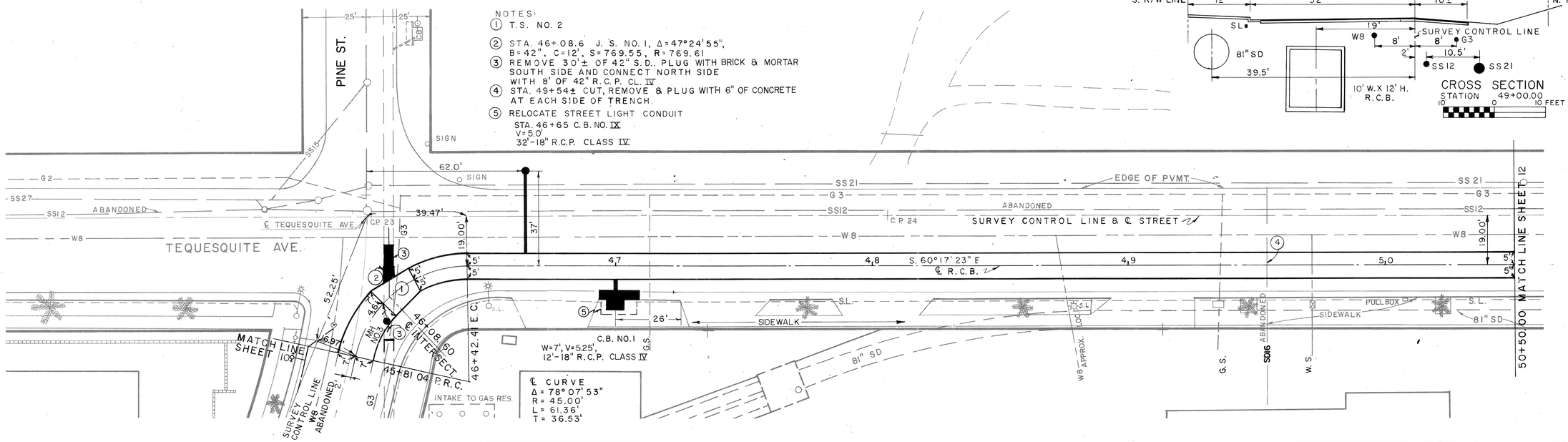
DRAWING NO. 1-287

SHEET NO. 10 OF 61



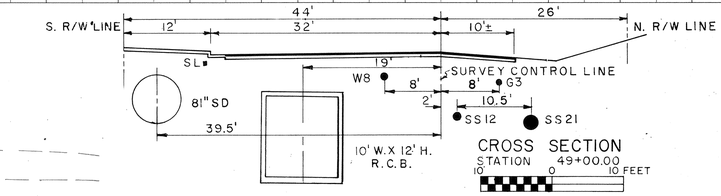
NOTE
ALL UTILITIES NOT NOTED TO BE RELOCATED OR REMOVED SHALL BE PROTECTED IN PLACE. ALL FACILITIES LOCATED WITHIN T.C.E. ARE TO BE PROTECTED IN PLACE UNLESS OTHERWISE INDICATED.

PROFILE



NOTES:

1. T.S. NO. 2
2. STA. 46+08.6 J. S. NO. 1, Δ=47°24'55", B=42", C=12', S=769.55, R=769.61
3. REMOVE 30'± OF 42" S.D.. PLUG WITH BRICK & MORTAR SOUTH SIDE AND CONNECT NORTH SIDE WITH 8' OF 42" R.C.P. CL. IV
4. STA. 49+54± CUT, REMOVE & PLUG WITH 6" OF CONCRETE AT EACH SIDE OF TRENCH.
5. RELOCATE STREET LIGHT CONDUIT
   STA. 46+65 C.B. NO. IX
   V=5.0'
   32'-18" R.C.P. CLASS IV



PLAN

1" = 20'

20' 0 20'

BENCH MARK CP NO 23 EL. 784.75
CONCRETE NAIL ON S S OF MH AT INTERSECTION OF PINE ST. AND TEQUESQUITE AVE.

SCALE: 1" = 5' VERTICAL
1" = 20' HORIZONTAL

DATE:

J. F. DAVIDSON ASSOCIATES
CIVIL ENGINEERS SURVEYORS PLANNERS
3426 TENTH STREET RIVERSIDE, CALIFORNIA

APPROVED BY: John W. Carter
REGISTERED CIVIL ENGINEER NO. 17550

DATE: JANUARY 1973

REVISIONS			
REF.	DESCRIPTION	APPR.	DATE

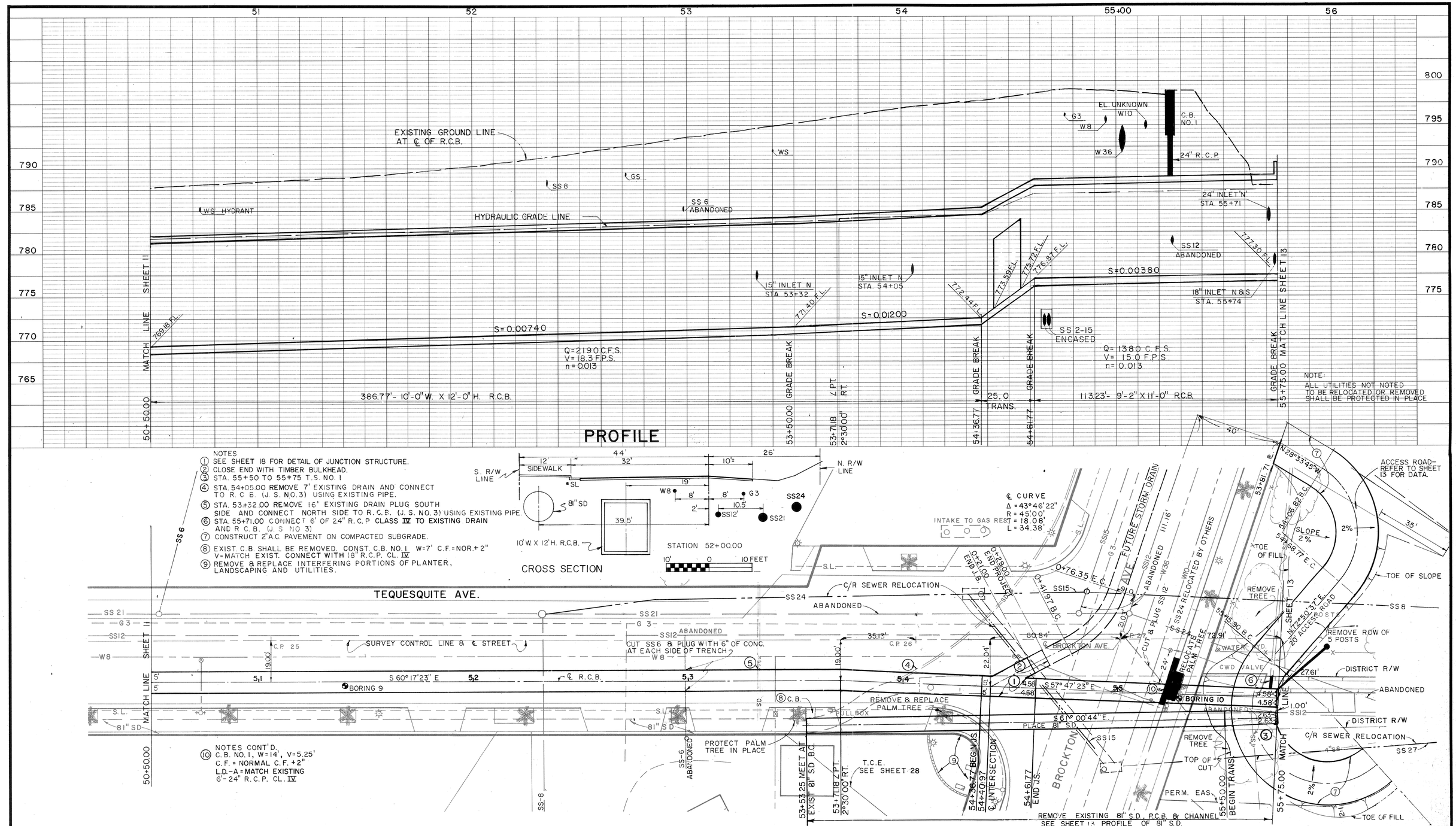
RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY:
DRAWN BY:
DATE DRAWN:
CHECKED BY:

APPROVED BY:
CHIEF ENGINEER R.E. NO. 8822
DATE:

BOX SPRINGS DRAIN
STAGE I
STA. 45+81.04 TO STA. 50+50.00
1970 STORM DRAIN BOND ISSUE PROJECT NO. 6

PROJECT NO. 1-0-220
DRAWING NO. 1-287
SHEET NO. 11 OF 61



BENCH MARK C.P. NO 27 EL. 798.28
NAIL AND FLASH IN PATCH AT INTERSECTION OF BROCKTON AVE. AND TEQUESQUITE AVE.

SCALE: 1"= 5' VERTICAL
1"= 20' HORIZONTAL

DATE:

J. F. DAVIDSON ASSOCIATES
CIVIL ENGINEERS SURVEYORS PLANNERS
3426 TENTH STREET RIVERSIDE, CALIFORNIA

APPROVED BY:

DATE: JANUARY 1973

REGISTERED CIVIL ENGINEER NO. 17550

REVISIONS			
REF.	DESCRIPTION	APPR.	DATE

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY:
DRAWN BY:
DATE DRAWN:
CHECKED BY:

APPROVED BY:

CHIEF ENGINEER R.E. NO. 8822

DATE:

BOX SPRINGS DRAIN

STAGE I

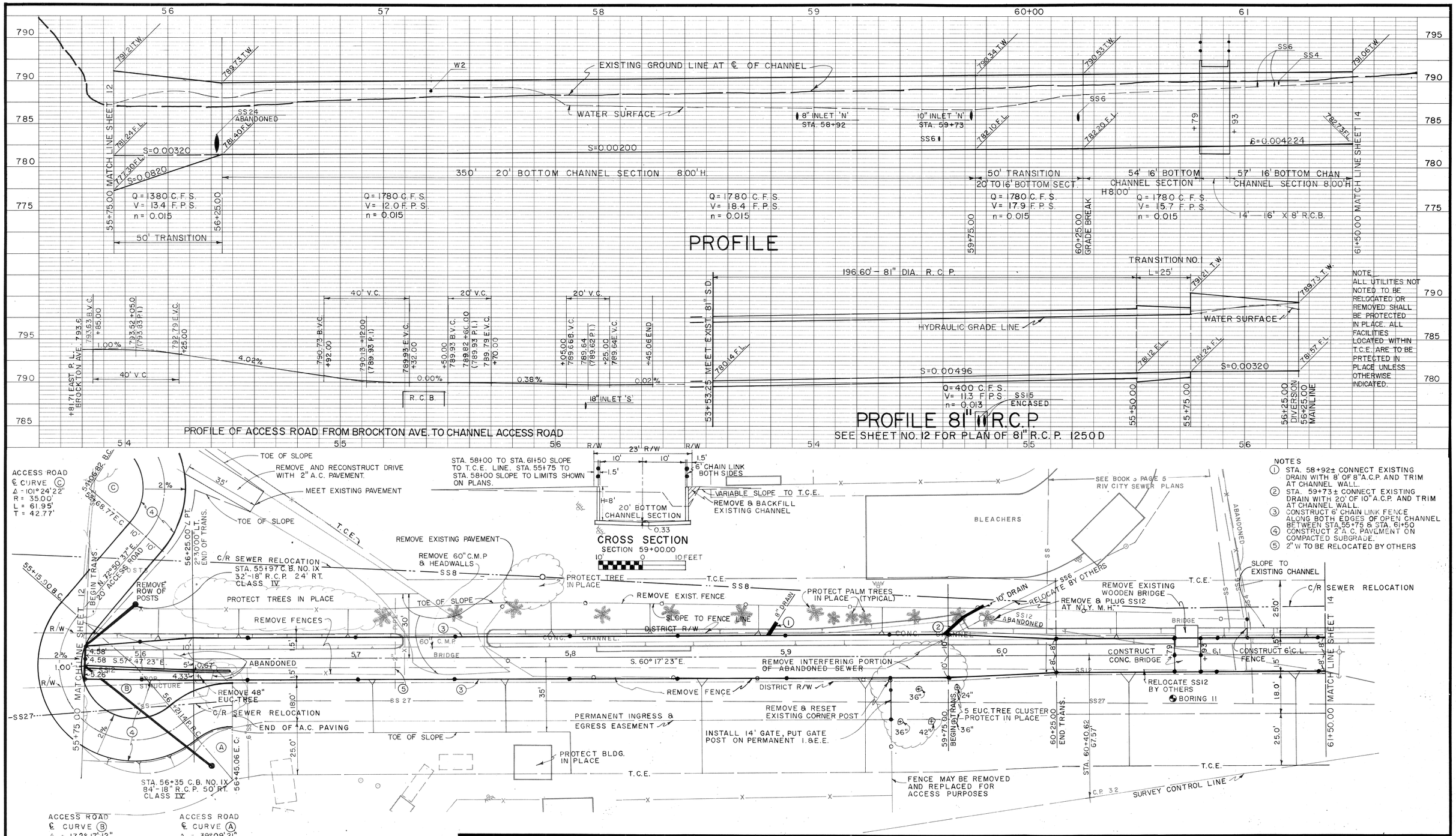
STA. 50+50.00 TO STA. 55+75.00

1970 STORM DRAIN BOND ISSUE PROJECT NO. 6

PROJECT NO. 1-0-220

DRAWING NO. 1-287

SHEET NO. 12 OF 61



BENCH MARK C.P. NO. 32 3/4" I.P. WITH CAP EL. 789.91	J. F. DAVIDSON ASSOCIATES CIVIL ENGINEERS SURVEYORS PLANNERS 3426 TENTH STREET RIVERSIDE, CALIFORNIA	REVISIONS	RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
SCALE: 1"= 5' VERTICAL 1"= 20' HORIZONTAL	APPROVED BY:	REF. DESCRIPTION APPR. DATE	DESIGNED BY: / DRAWN BY: / DATE DRAWN: / CHECKED BY:
DATE:	DATE: JANUARY 1973 REGISTERED CIVIL ENGINEER NO. 17550		APPROVED BY: CHIEF ENGINEER R.E. NO. 8822 DATE:

BOX SPRINGS DRAIN

STAGE I

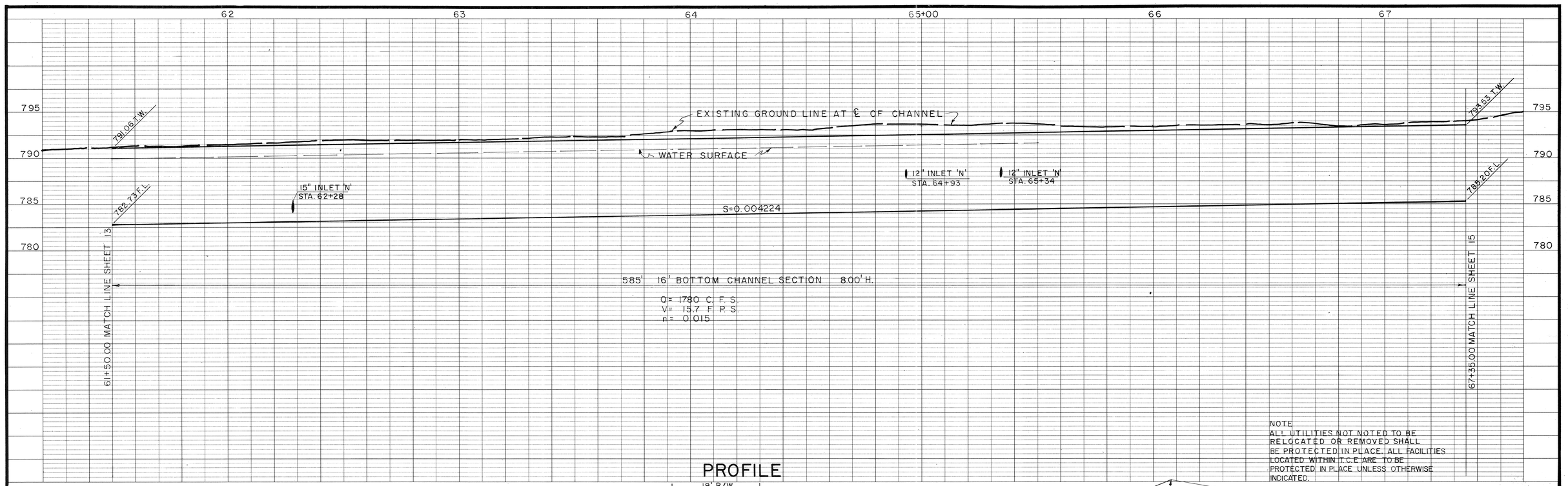
STA. 57+75.00 TO STA. 61+50.00

1970 STORM DRAIN BOND ISSUE PROJECT NO. 6

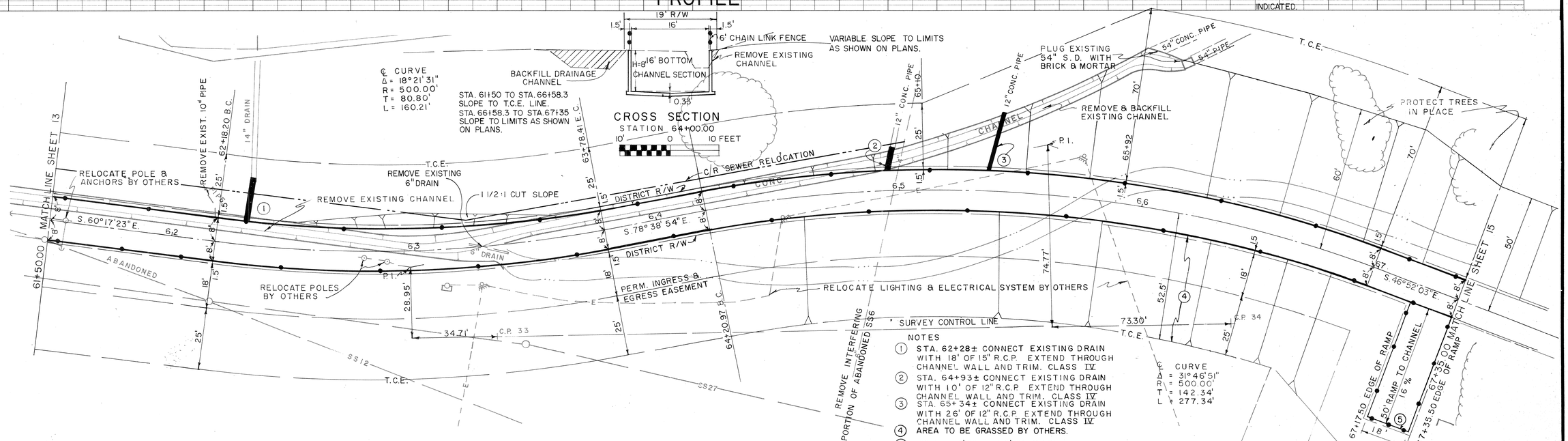
PROJECT NO. 1-0-220

DRAWING NO. 1-287

SHEET NO. 13 OF 61



PROFILE



NOTES

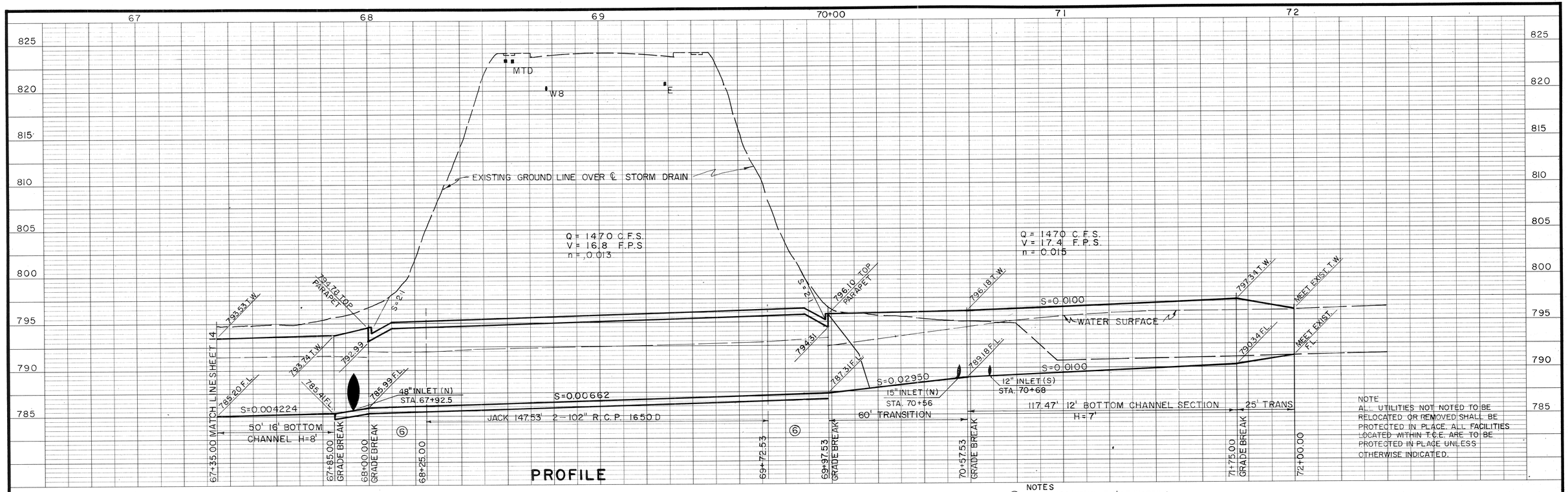
1. STA. 62+28± CONNECT EXISTING DRAIN WITH 18' OF 15" R.C.P. EXTEND THROUGH CHANNEL WALL AND TRIM. CLASS IV
2. STA. 64+93± CONNECT EXISTING DRAIN WITH 10' OF 12" R.C.P. EXTEND THROUGH CHANNEL WALL AND TRIM. CLASS IV
3. STA. 65+34± CONNECT EXISTING DRAIN WITH 26' OF 12" R.C.P. EXTEND THROUGH CHANNEL WALL AND TRIM. CLASS IV
4. AREA TO BE GRASSED BY OTHERS.
5. INSTALL 14' GATE IN 6' CHAIN LINK FENCE.

PLAN

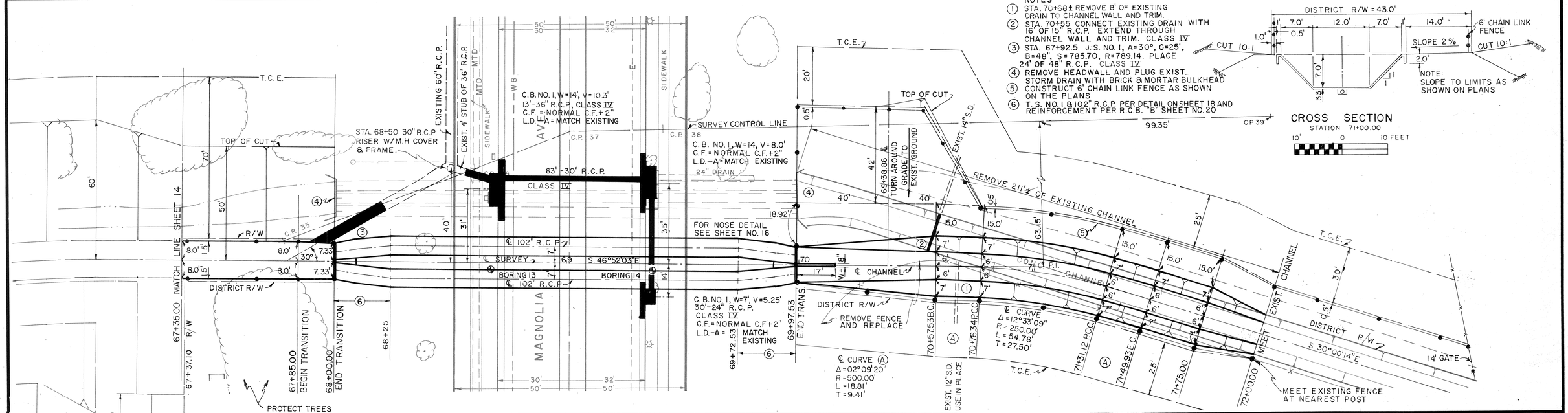
1"=20'

20' 0 20'

BENCH MARK C.P. NO. 34 3/4" I.P. WITH CAP EL. 793.10	J. F. DAVIDSON ASSOCIATES CIVIL ENGINEERS SURVEYORS PLANNERS 3426 TENTH STREET RIVERSIDE, CALIFORNIA	REVISIONS	RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	BOX SPRINGS DRAIN STAGE I STA. 61+50.00 TO STA. 67+35.00 1970 STORM DRAIN BOND ISSUE PROJECT NO. 6	PROJECT NO. 1-0-220
SCALE: 1"=5' VERTICAL 1"=20' HORIZONTAL	APPROVED BY:	REF. DESCRIPTION APPR. DATE	DESIGNED BY: APPROVED BY:		DRAWING NO. 1-287
DATE:	DATE: JANUARY 1973 REGISTERED CIVIL ENGINEER NO. 17550		DRAWN BY: CHIEF ENGINEER R.E. NO. 8822		SHEET NO. 14 OF 61
			DATE DRAWN: DATE:		
			CHECKED BY:		



PROFILE



PLAN

1" = 20'

20' 0 20'

NOTES

1. STA. 70+68± REMOVE 8' OF EXISTING DRAIN TO CHANNEL WALL AND TRIM.
2. STA. 70+55 CONNECT EXISTING DRAIN WITH 16' OF 15" R.C.P. EXTEND THROUGH CHANNEL WALL AND TRIM. CLASS IV
3. STA. 67+92.5 J.S. NO. 1, A=30°, G=25', B=48", S=785.70, R=789.14. PLACE 24' OF 48" R.C.P. CLASS IV
4. REMOVE HEADWALL AND PLUG EXIST. STORM DRAIN WITH BRICK & MORTAR BULKHEAD
5. CONSTRUCT 6' CHAIN LINK FENCE AS SHOWN ON THE PLANS
6. T.S. NO. 1 & 102" R.C.P. PER DETAIL ON SHEET 18 AND REINFORCEMENT PER R.C.B. "B" SHEET NO. 20

CROSS SECTION

STATION 71+00.00

10' 0 10 FEET

BENCH MARK C.P. NO. 35 3/4" I.P. WITH CAP EL. 795.70	J. F. DAVIDSON ASSOCIATES CIVIL ENGINEERS - SURVEYORS - PLANNERS RIVERSIDE, CALIFORNIA	REVISIONS	RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	BOX SPRINGS DRAIN	PROJECT NO. 1-0-220
SCALE: 1" = 5' VERTICAL 1" = 20' HORIZONTAL	APPROVED BY: John W. Carty	REF. DESCRIPTION APPR. DATE	DESIGNED BY: / DRAWN BY: / DATE DRAWN: / CHECKED BY:	STAGE I	DRAWING NO. 1-287
DATE:	DATE: JANUARY 1973 REGISTERED CIVIL ENGINEER NO. 17550		APPROVED BY: CHIEF ENGINEER R.E. NO. 8822 DATE:	STA. 67+35.00 TO STA. 72+00.00 1970 STORM DRAIN BOND ISSUE PROJECT NO. 6	SHEET NO. 15 OF 61