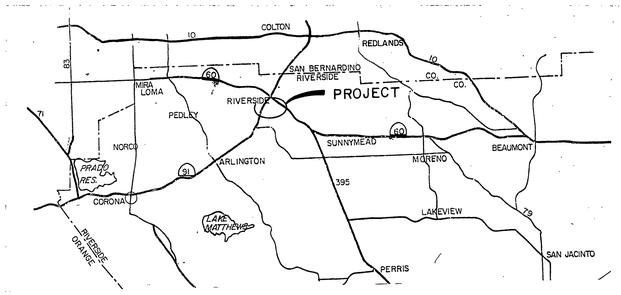
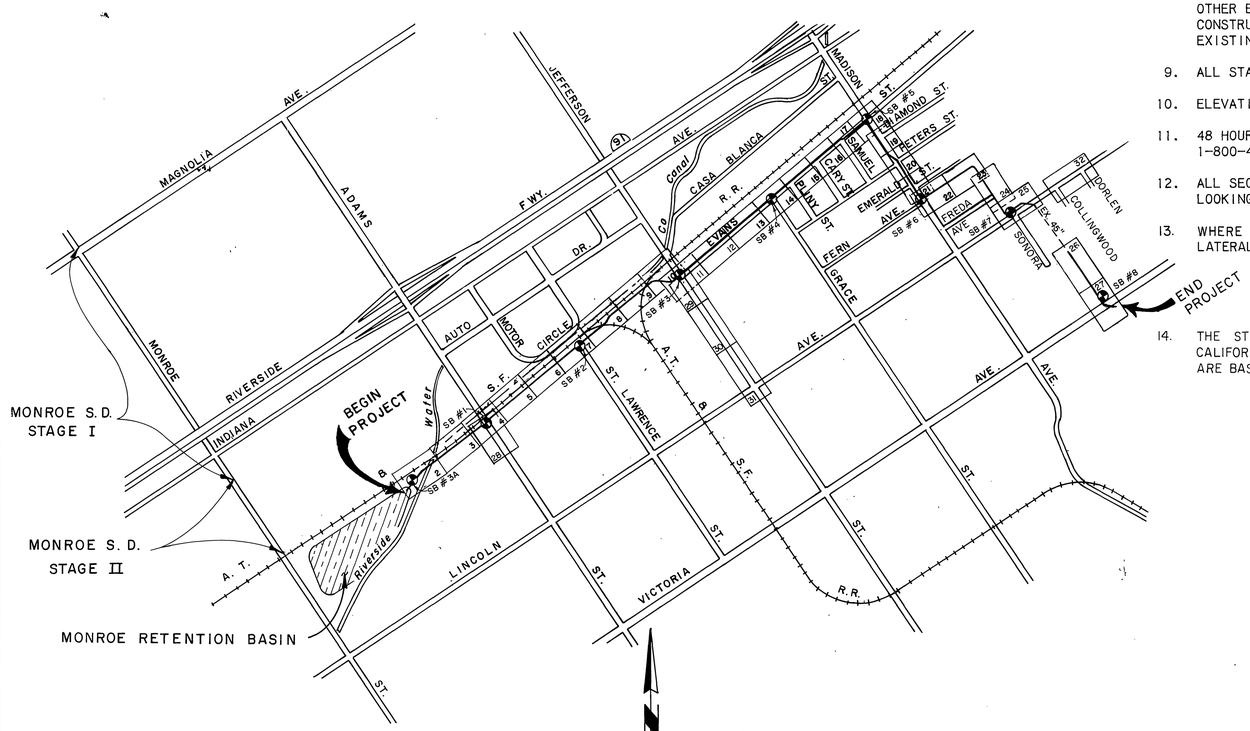
RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT



VICINITY MAP

0 1 2 3 4 5mi.



LOCATION MAP

800' 0 800'

SB #0 INDICATES SOIL BORING LOCATION & NO.

GENERAL NOTES

1. TOPOGRAPHIC FEATURES, BOTH CONTOURS & CULTURE, ARE BASED UPON RIVERSIDE COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT PHOTOGRAMMETRY DATED 9-16-79.
2. ALL ELEVATIONS SHOWN ARE IN FEET BASED ON U.S.C. & G.S. DATUM.
3. TIES TO CATCH BASINS ARE FROM THE CURB RETURN TO THE CENTERLINE OF THE CATCH BASIN UNLESS OTHERWISE SHOWN. WHERE NO TIE IS SHOWN THE LOCAL DEPRESSION SHALL START AT THE CURB RETURN.
4. CATCH BASIN CONNECTOR PIPE PROFILES ARE SCHEMATIC ONLY. THE BOTTOM AND SIDES SHOWN ON THE PLANS FOR EACH BASIN REPRESENT THE INSIDE OF THE BASIN. THE TOP SHOWN ON THE PLANS REPRESENTS THE OUTSIDE.
5. PIPE CONNECTIONS TO MAINLINE SHALL CONFORM TO J.S. NO. 4 (PIPE) OR J.S. NO. 3 (BOX) UNLESS OTHERWISE NOTED.
6. OPENINGS RESULTING FROM THE CUTTING OR PARTIAL REMOVAL OF EXISTING CULVERTS, PIPES OR SIMILAR STRUCTURES TO BE ABANDONED SHALL BE SEALED WITH 6" OF CLASS "B" CONCRETE, NOTED ON PLANS AS "PLUG".
7. STREET RESURFACING SHALL BE 3" ASPHALT CONCRETE ON 6" CLASS 2 AGGREGATE BASE OR IN KIND, WHICHEVER IS GREATER.
8. ALL RESURFACING, CURBS, GUTTERS, SIDEWALKS, DRIVEWAYS AND OTHER EXISTING IMPROVEMENTS TO BE RECONSTRUCTED SHALL BE CONSTRUCTED AT THE SAME ELEVATION AND LOCATION AS THE EXISTING IMPROVEMENTS, UNLESS OTHERWISE NOTED.
9. ALL STATIONING REFERS TO CENTERLINE OF CONSTRUCTION.
10. ELEVATIONS OF UTILITIES ARE APPROXIMATE UNLESS NOTED OTHERWISE.
11. 48 HOURS BEFORE EXCAVATION, CALL UNDERGROUND SERVICE ALERT 1-800-422-4133.
12. ALL SECTIONS AND CONNECTOR PIPE PROFILES ARE TAKEN LOOKING DOWNSTREAM
13. WHERE STORM DRAIN CONSTRUCTION CROSSES UNDER SEWER MAINS OR LATERALS. THE SEWER SHALL BE ENCASED PER CITY STANDARD NO. 564.
14. THE STORM DRAIN BEARINGS HAVE BEEN CALCULATED BASED UPON THE CALIFORNIA GRID SYSTEM, ZONE VI. ALL OTHER STORM DRAIN MEASUREMENTS ARE BASED ON ACTUAL GROUND DISTANCES.

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R. C. F. C. STANDARDS

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CITY OF RIVERSIDE STANDARDS

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INDEXED 9-3-87 LH
D-527

REVISIONS			
REF.	DESCRIPTION	APPR.	DATE

AS BUILT

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: J.R.C.
DRAWN BY: K.R.B
DATE DRAWN: 5-82
CHECKED BY: A.G.K.

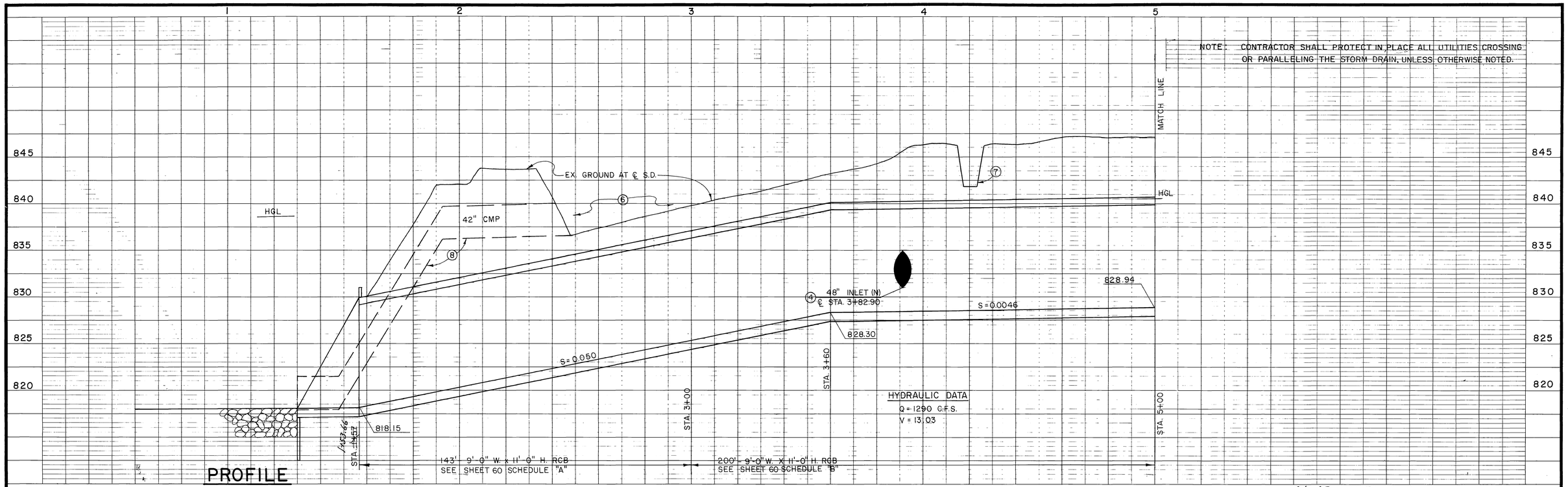
APPROVED BY: Kenneth L. Edwards
CHIEF ENGINEER R.E. NO. 12400
DATE: 7-18-83

MONROE STORM DRAIN
RAILROAD LATERAL
TITLE SHEET

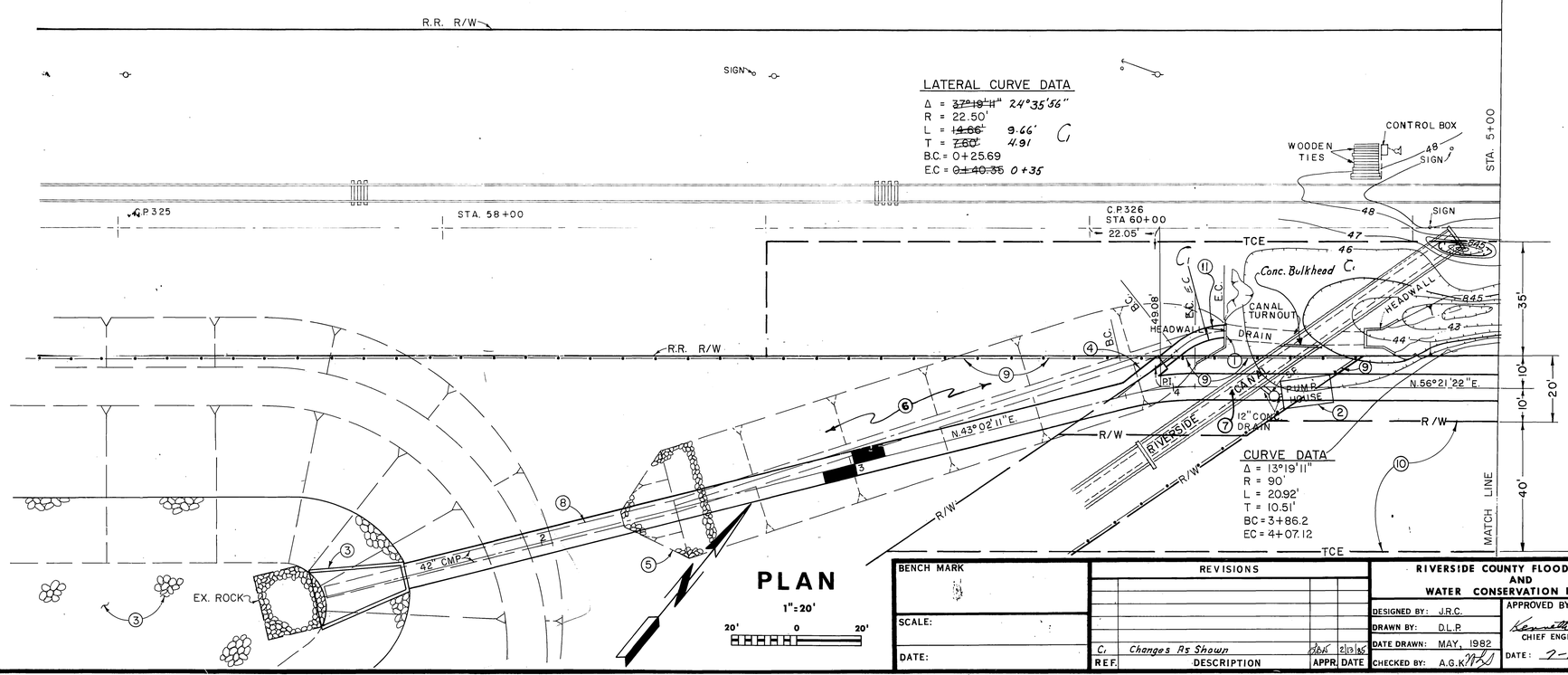
1970 STORM DRAIN BOND ISSUE PROJECT NO. 16

PROJECT NO. 1-0-072
DRAWING NO. 1-385
SHEET NO. 1 OF 69

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



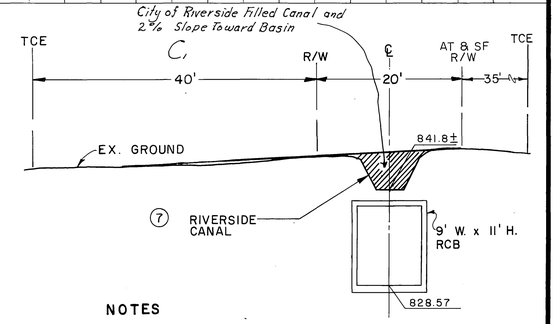
PROFILE



PLAN

1" = 20'

20' 0 20'



SECTION AT STA. 4+20

10' 0 10'

NOTES

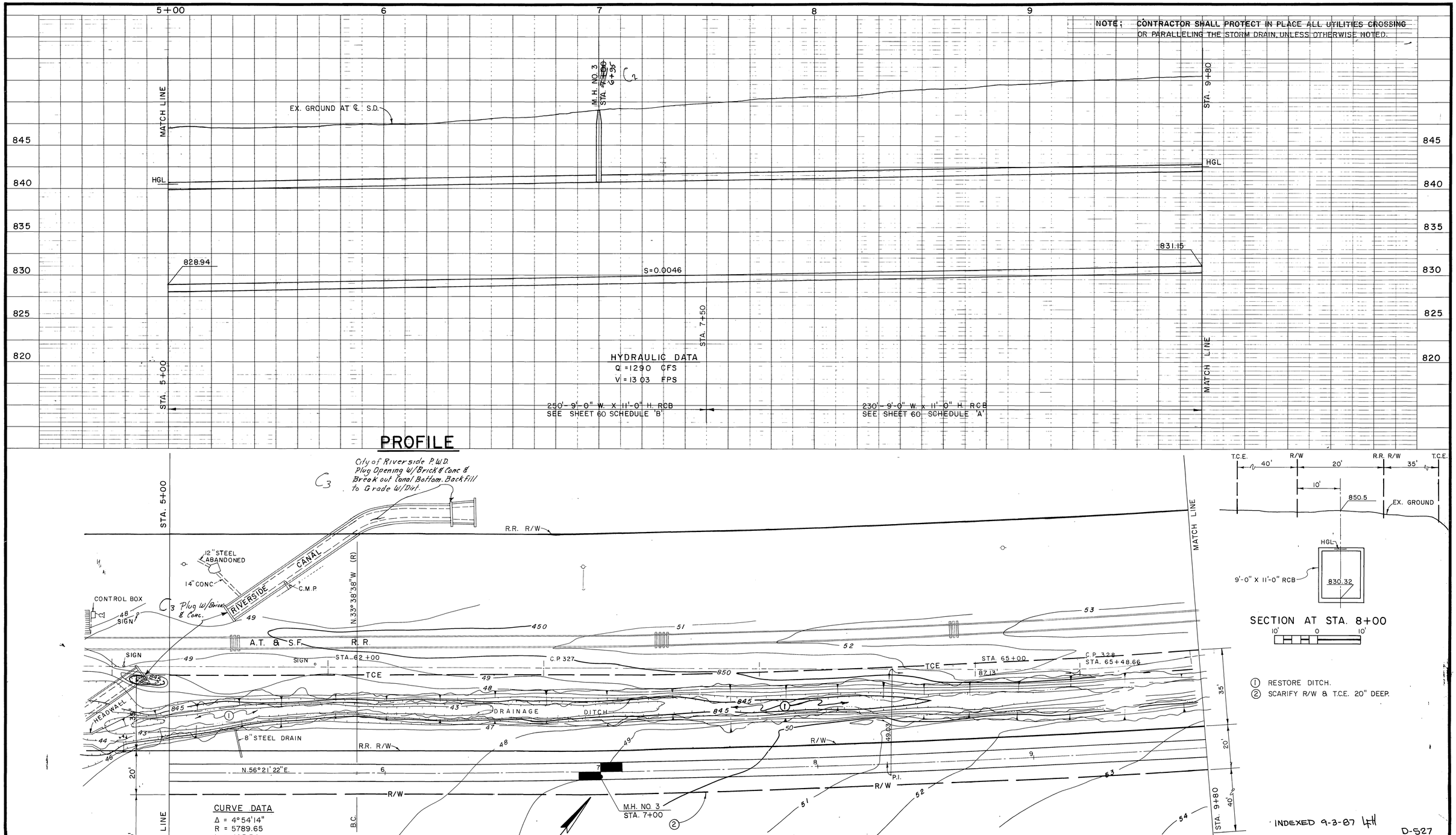
1. CONNECT CANAL TURNOUT DRAIN TO MAINLINE 20' OF 48" R.C.P. 3000D. SEE CONNECTOR PIPE DETAIL SHEET 34.
2. REMOVE & DISPOSE OF PUMP HOUSE AND APPURTENCES. CONNECT FENCING IN KIND.
3. FOR OUTLET STRUCTURE & ROCK SLOPE PROTECTION SEE DETAIL SHEET 35.
4. J.S. NO. 1 A = 26°, B = 48", C = 18.6', EL. R = 832.80, EL. S = 831.10.
5. SALVAGE ROCK FOR OUTLET STRUCTURE AREA.
6. FILL TO MEET SURROUNDING GROUND.
7. REMOVE AND REPLACE CANAL, SEE SPECIFICATIONS.
8. REMOVE SD42.
9. REMOVE & REPLACE INTERFERING PORTIONS FENCE AND GATE.
10. SCARIFY TCE & R/W 20" DEEP.
11. T.S. No. 3, A = D, B = 0, C = 0
D_1 = 60" Pipe Arch D_2 = 48" R.C.P.
Length = 5'-0"

INDEXED 9-3-87 LH

D-527

BENCH MARK	REVISIONS				RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT		MONROE S.D. - RAILROAD LATERAL	PROJECT NO. 1-0-072
SCALE:					DESIGNED BY: J.R.C.	APPROVED BY: Kenneth F. Edwards	STA. 1+57 TO STA. 5+00	DRAWING NO. 1-385
					DRAWN BY: D.L.R.	CHIEF ENGINEER R.E. NO. 12400	1970 STORM DRAIN BOND ISSUE PROJECT NO. 16	SHEET NO. 2 OF 69
DATE:	C.	Changes As Shown	JDK	2/13/85	DATE DRAWN: MAY, 1982	DATE: 7-18-83		
	REF.	DESCRIPTION	APPR.	DATE	CHECKED BY: A.G.K.			

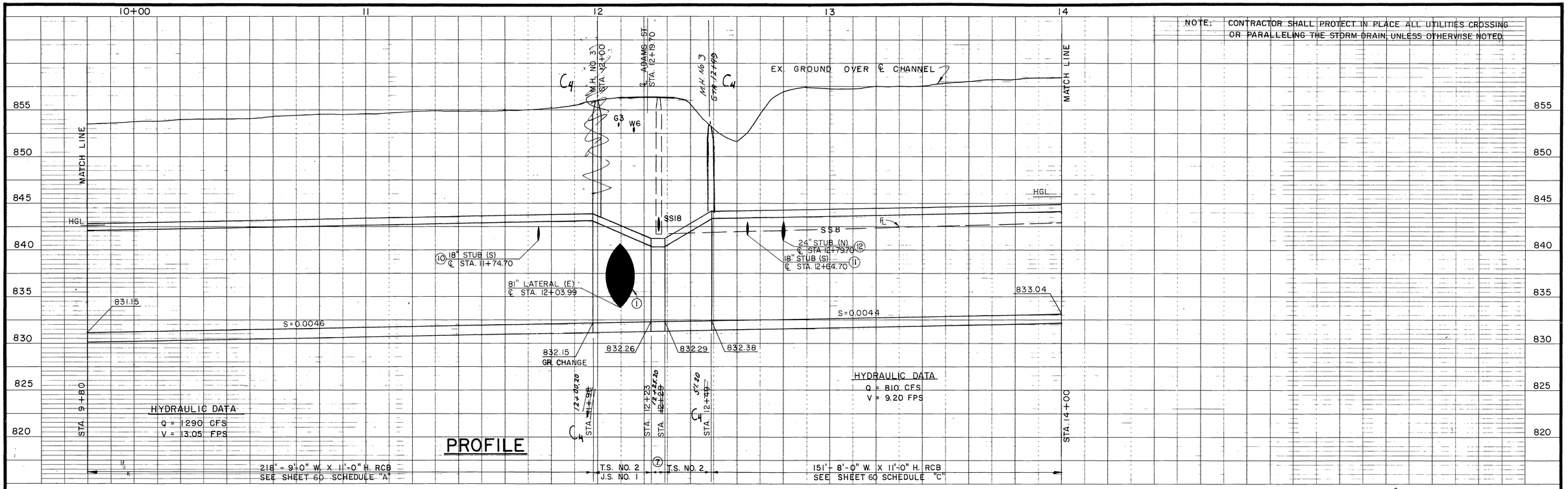
AS BUILT

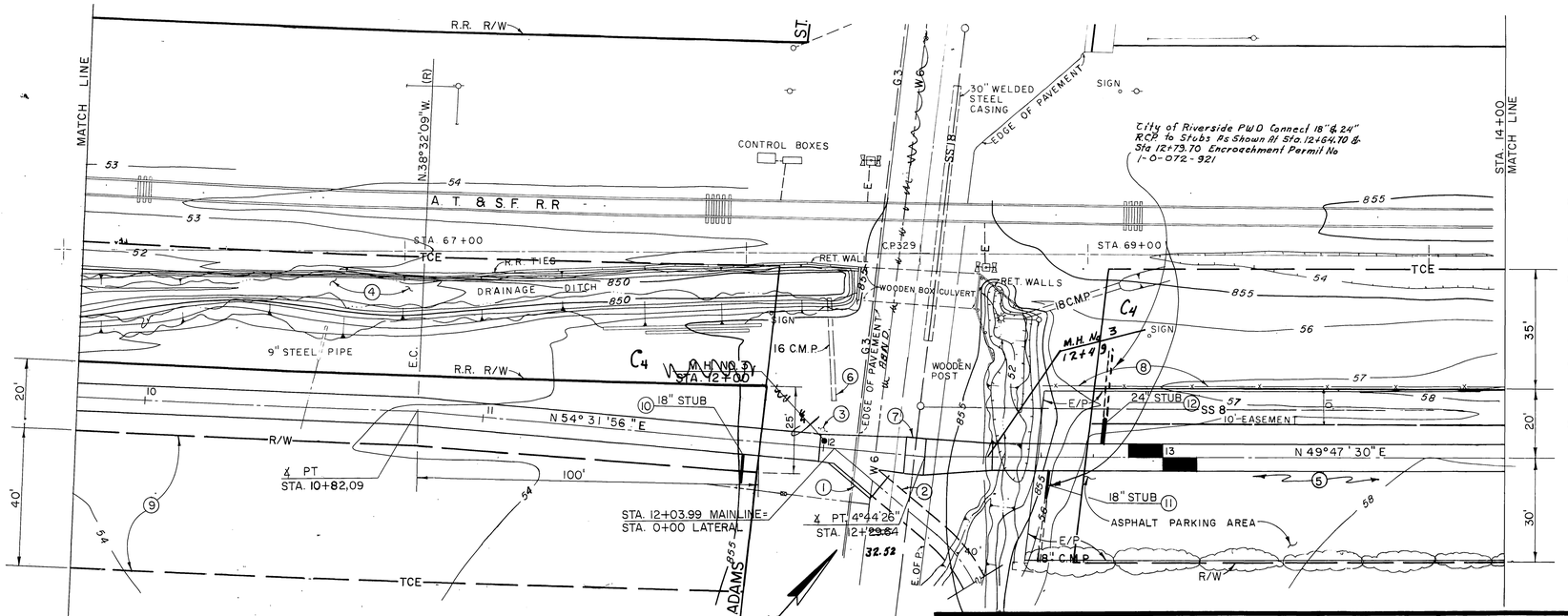


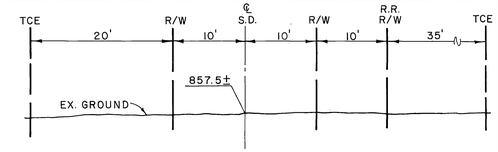
BENCH MARK	REVISIONS			RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT		MONROE S.D. - RAILROAD LATERAL	PROJECT NO.
3/4" I.P. W/R.C.F.C. PLUG. C.P. STA. 65+48.66± P.I. EASTERLY SIDE R.R. TRACKS. ELEV. 852.138				DESIGNED BY: J.R.C.	APPROVED BY: Kenneth F. Edwards	STA. 5+00 TO STA. 9+80	1-0-072
SCALE:	C3 Riverside P.W.D. Backfill Canal	JBS	2/13/85	DRAWN BY: D.L.P.	CHIEF ENGINEER R.E. NO. 12400	1970 STORM DRAIN BOND ISSUE PROJECT NO. 16	DRAWING NO. 1-385
DATE:	C2 Sta Change	JBS	2/13/85	DATE DRAWN: MAY, 1982	DATE: 7-18-83		SHEET NO. 3 OF 69
	REF. DESCRIPTION	APPR.	DATE	CHECKED BY: A.G.K.			

AS BUILT

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

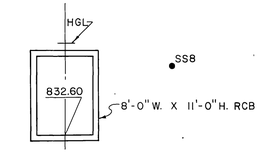






NOTES

1. J.S. NO. 1, A = 35°, B = 81", C = 14.6', EL. R = 883.80, EL. S = 833.78.
2. ST. LAWRENCE WASH LATERAL, FOR PLAN & PROFILE SEE SHEET 28.
3. FIRE HYDRANT RELOCATED BY OTHERS PRIOR TO CONSTRUCTION.
4. RESTORE DITCH.
5. REMOVE INTERFERING PORTIONS ASPHALT PAVEMENT.
6. RESTORE DRAINAGE TO 16" CMP.
7. 6'-11'-0" W. X 8'-0" H. R.C.B. SEE SHEET 62, SCHEDULE "L".
8. REMOVE FENCE.
9. SCARIFY R/W & T.C.E. 20" DEEP.
10. 18" STUB; 8'-18" RCP, CL. IV. ELEV. "S" = 841.00, END OF STUB ELEV. = 845.00.
11. 18" STUB; 8'-18" RCP, CL. IV. ELEV. "S" = 841.50, END OF STUB ELEV. = 845.50.
12. 24" STUB; 8'-24" RCP, CL. IV. ELEV. "S" = 841.00, END OF STUB ELEV. = 845.00.
13. BULKHEAD ALL STUBS.



SECTION AT STA. 13+00

10' 0 10'

℄ CURVE DATA

Δ = 4°54'14"
R = 5789.65'
L = 495.54'
T = 247.92'
B.C. = 5+86.55
E.C. = 10+82.09

BENCH MARK
SET R/R SPIKE IN SOUTH SIDE OF P.P. NO. 26137-J 75± NE'LY OF INT. OF R/R TRACKS & ADAMS ST. BEHIND ANZA CHEV. TBM1 – EL. 856.990.

SCALE:

DATE:

REVISIONS			
C	M.H. and Sta. Changed	ABAS	2/13/85
REF.	DESCRIPTION	APPR.	DATE

AS BUILT

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: J.R.C.
DRAWN BY: D.L.P.
DATE DRAWN: 6-82
CHECKED BY: A.G.K.

APPROVED BY: Kenneth A. Schroeder
CHIEF ENGINEER R.E. NO. 12400
DATE: 2-18-83

MONROE S.D. – RAILROAD LATERAL
STA. 9+80 TO STA. 14+00
1970 STORM DRAIN BOND ISSUE PROJECT NO. 16

PROJECT NO. 1-0-072
DRAWING NO. 1-385
SHEET NO. 4 OF 69

INDEXED 9-3-87 4H

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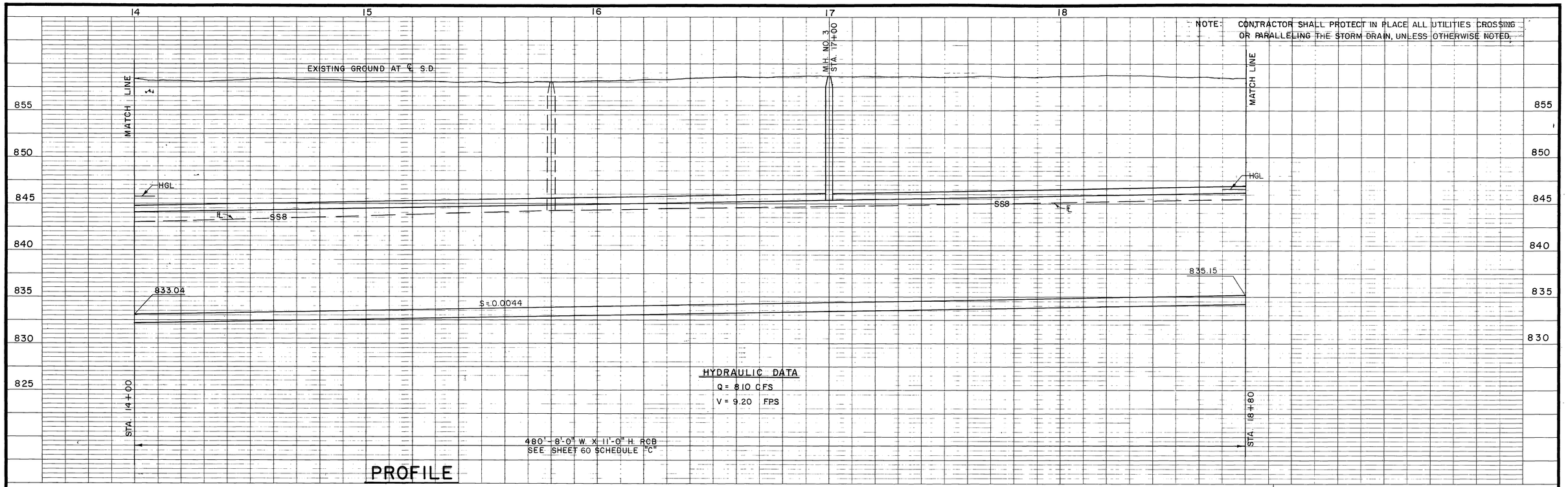
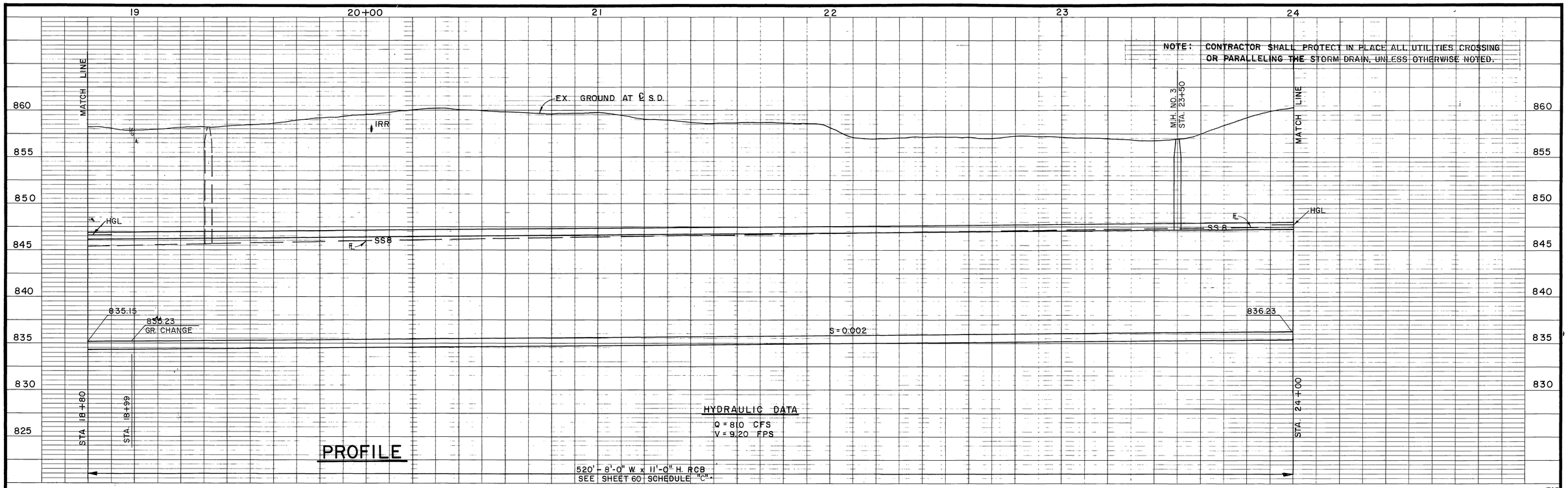


BENCH MARK	REVISIONS				RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT		MONROE S.D. - RAILROAD LATERAL	PROJECT NO. 1-0-072
SET R/R SPIKE IN SOUTH SIDE OF P.P. NO. 26140-J N. SIDE R/R TRACKS BASELINE STA. 75+00± TBM 2 - EL. 857.405.					DESIGNED BY: J.R.C.	APPROVED BY: Kenneth L. Edwards	STA. 14+00 TO STA. 18+80	DRAWING NO. 1-385
SCALE:					DRAWN BY: D.L.P.	CHIEF ENGINEER R.E. NO. 12400	1970 STORM DRAIN BOND ISSUE PROJECT NO. 16	SHEET NO. 5 OF 69
DATE:	C.S.	Moved No 3 M.H.	2/13/85		DATE DRAWN: 5-82	DATE: 7-18-83		
	REF.	DESCRIPTION	APPR.	DATE	CHECKED BY: A.G.K.			

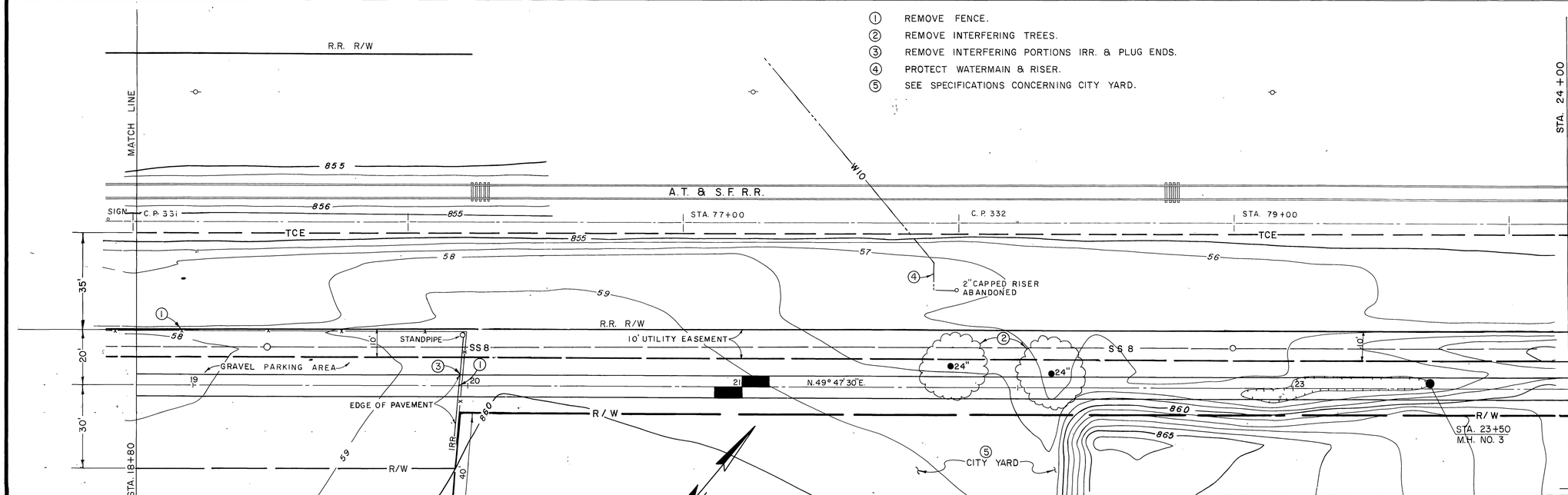
AS BUILT

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



PROFILE

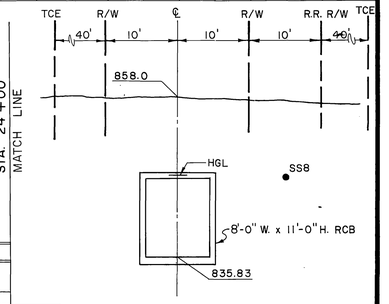
① REMOVE FENCE.
② REMOVE INTERFERING TREES.
③ REMOVE INTERFERING PORTIONS IRR. & PLUG ENDS.
④ PROTECT WATERMAIN & RISER.
⑤ SEE SPECIFICATIONS CONCERNING CITY YARD.



PLAN

1"=20'

20' 0 20'



SECTION AT 22+00

10' 0 10'

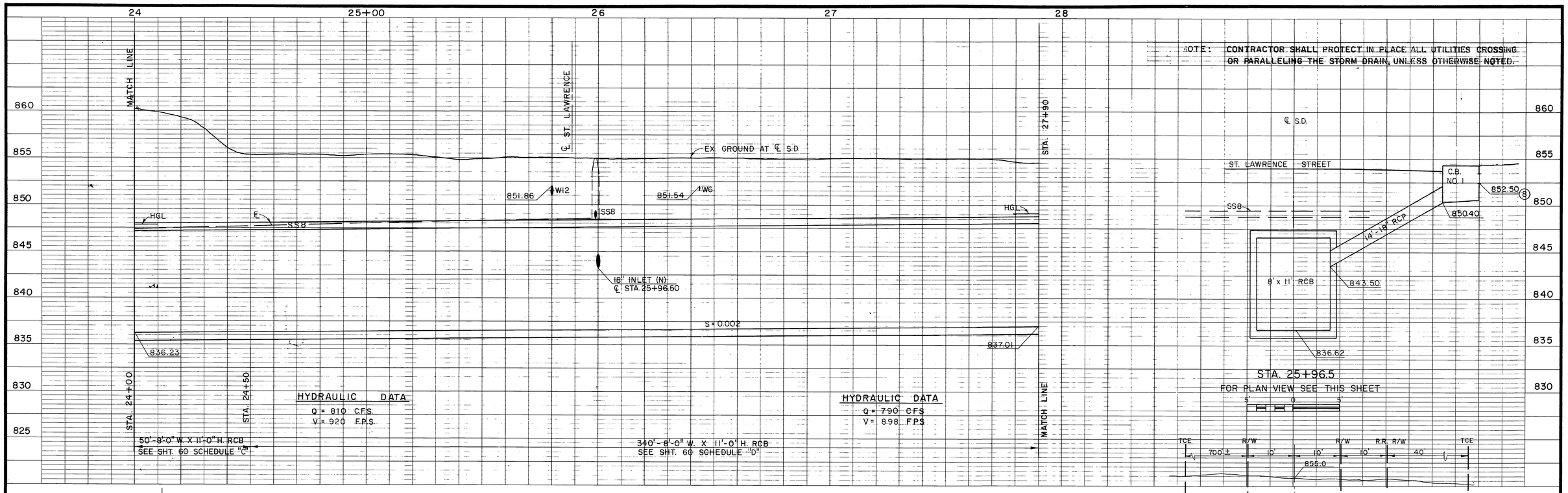
INDEXED 9-3-87 4th

D-527

BENCH MARK	REVISIONS	RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	MONROE S.D. - RAILROAD LATERAL	PROJECT NO. 1-0-072
SET R/R SPIKE IN SOUTH SIDE OF P.P. NO. 26140-J N. SIDE R/R TRACK ± BASELINE STA. 75+00. TBM 2 - EL. 857.405.	No Changes	DESIGNED BY: J.R.C. / DRAWN BY: D.L.P. / DATE DRAWN: 5-82 / CHECKED BY: A.G.K.	STA. 18+80 TO STA. 24+00	DRAWING NO. 1-385
SCALE:	REF. / DESCRIPTION / APPR. / DATE	APPROVED BY: Kenneth A. Edwards, CHIEF ENGINEER R.E. NO. 12400	1970 STORM DRAIN BOND ISSUE PROJECT NO. 16	SHEET NO. 6 OF 69
DATE:		DATE: 7-18-83		

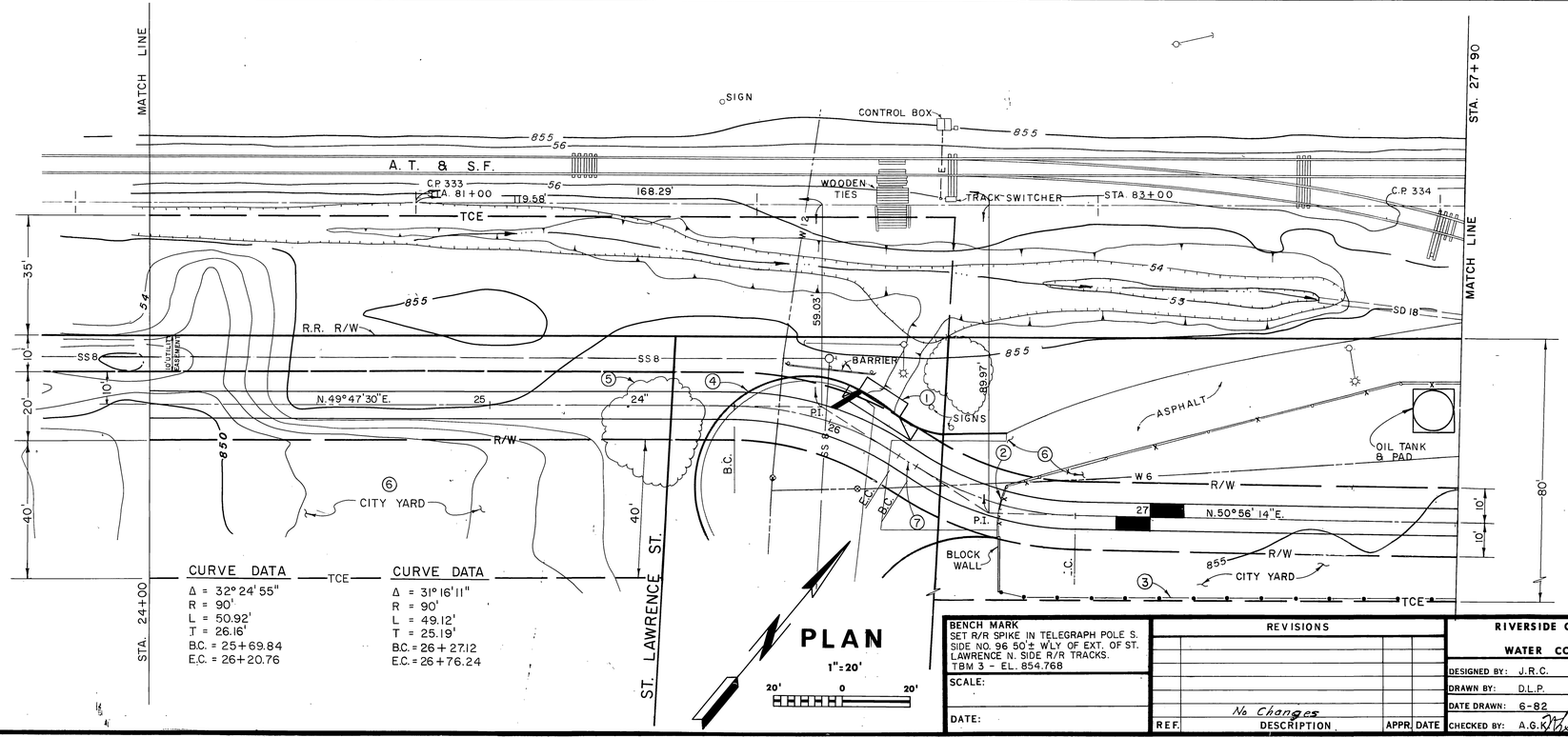
AS BUILT

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



SECTION AT 25+00

10' 0 10'



CURVE DATA

Δ = 32° 24' 55"
R = 90'
L = 50.92'
T = 26.16'
B.C. = 25+69.84
E.C. = 26+20.76

CURVE DATA

Δ = 31° 16' 11"
R = 90'
L = 49.12'
T = 25.19'
B.C. = 26+27.12
E.C. = 26+76.24

1. CATCH BASIN NO. 1, W = 14', V = 4.0', 14'-18" RCP CL. IV, SEE CONNECTOR PIPE PROFILE THIS SHEET. SEE NOTE 8.
2. REMOVE & RESTORE FENCE & GATE.
3. CONSTRUCT TEMPORARY 6' CHAIN LINK FENCE @ TCE THROUGH CITY YARD. PLACE BARBED WIRE ON TOP TO MATCH EXISTING FENCE.
4. REMOVE & REPLACE CURB.
5. REMOVE TREE.
6. SEE SPECIFICATIONS CONCERNING FIRE TRAINING AREA AND CITY YARDS.
7. ℄ BEARING BETWEEN CURVES, N.82°13'08"E. (6.36')
8. OPENING IN BACK OF C.B. 12" HIGH BY 4'-0" LONG. PROTECTION BARS, INSTALL PER STD. DWG. CB 110.

INDEXED 9-3-87 4H

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BENCH MARK
SET R/R SPIKE IN TELEGRAPH POLE S. SIDE NO. 96 50'± W'LY OF EXT. OF ST. LAWRENCE N. SIDE R/R TRACKS.
TBM 3 - EL. 854.768

SCALE:

DATE:

REVISIONS

REF.	DESCRIPTION	APPR.	DATE
	No Changes		

AS BUILT

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

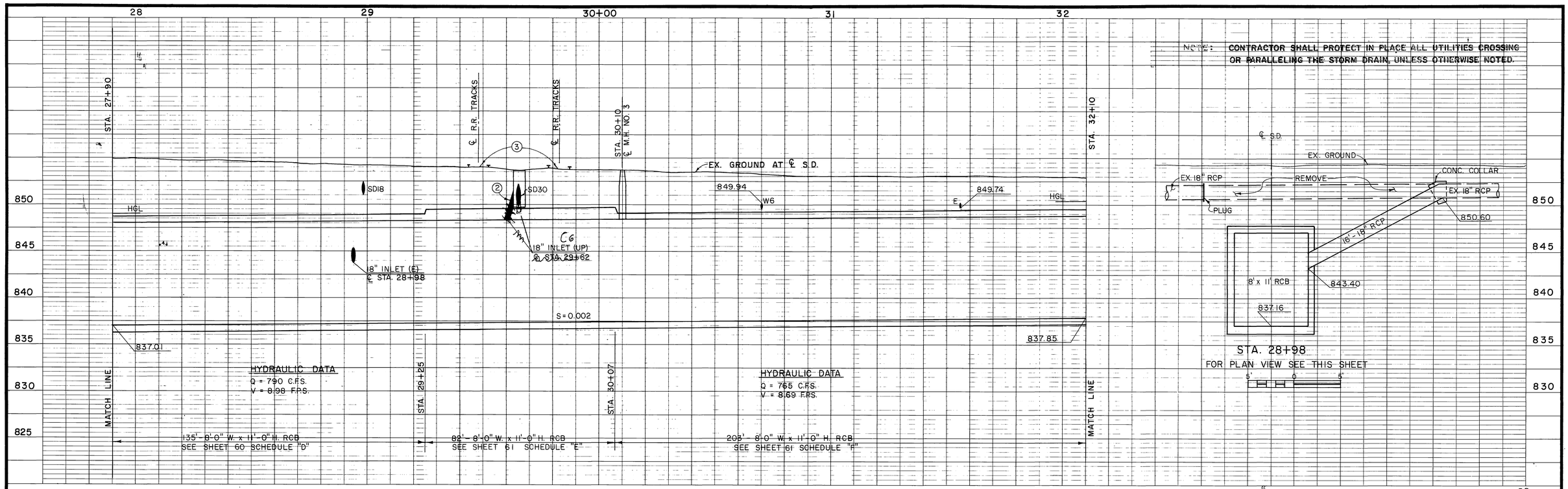
DESIGNED BY: J.R.C.
DRAWN BY: D.L.P.
DATE DRAWN: 6-82
CHECKED BY: A.G.K.

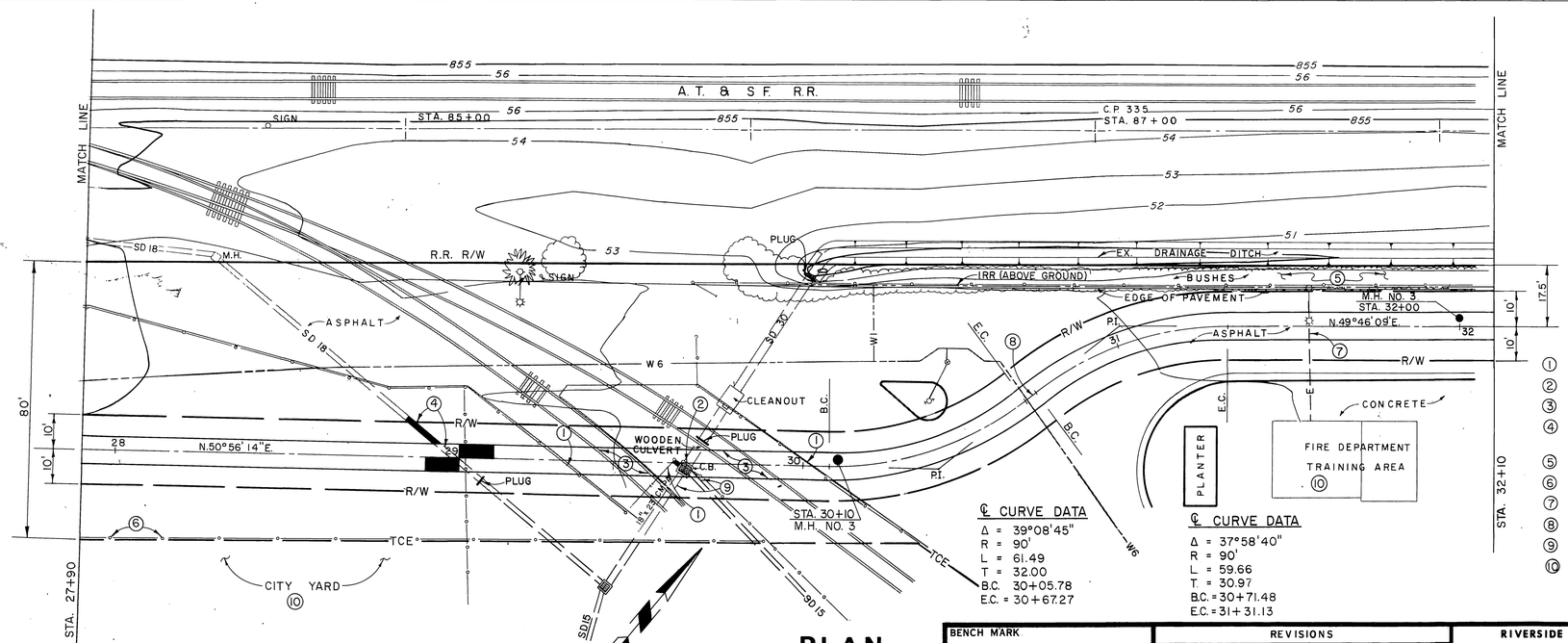
APPROVED BY: Kenneth P. Schwade
CHIEF ENGINEER R.E. NO. 12400
DATE: 7-18-83

MONROE S.D. - RAILROAD LATERAL
STA. 24+00 TO STA. 27+90
1970 STORM DRAIN BOND ISSUE PROJECT NO. 16

PROJECT NO. 1-0-072
DRAWING NO. 1-385
SHEET NO. 7 OF 69

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





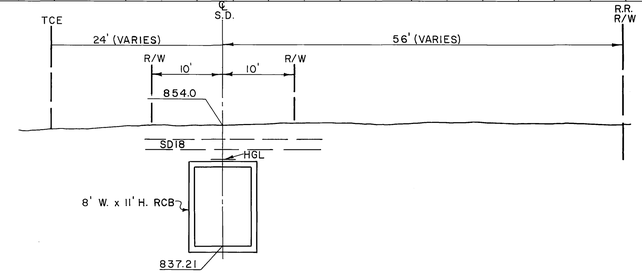
℄ CURVE DATA
Δ = 39°08'45"
R = 90'
L = 61.49
T = 32.00
B.C. 30+05.78
E.C. = 30+67.27

℄ CURVE DATA
Δ = 37°58'40"
R = 90'
L = 59.66
T. = 30.97
B.C. = 30+71.48
E.C. = 31+31.13

PLAN

1" = 20'

20' 0 20'



SECTION AT STA. 29+00

10' 0 10'

1. REMOVE & REPLACE FENCE & GATE.
2. REMOVE EXISTING C.B. REPLACE IN KIND; CONNECT TO MAINLINE. ~~4'~~ 18" RCP CL. IV. (18")
3. OPEN CUT R.R. CROSSING. SEE SPECIFICATIONS.
4. REMOVE INTERFERING PORTIONS SD18 & CONNECT TO MAINLINE. 16'-18" RCB CL. IV. SEE CONNECTOR PIPE PROFILE THIS SHEET.
5. PROTECT EXISTING SHRUBS, FENCE & IRR. IN PLACE.
6. CONSTRUCT TEMPORARY 6' CHAIN LINK FENCE @ TCE THROUGH CITY YARD. PLACE BARBED WIRE ON TOP TO MATCH EXISTING FENCE.
7. PROTECT ELECTRICAL IN PLACE.
8. ℄ BEARING BETWEEN CURVES N.11° 47'29"E. (4.20')
9. RECONNECT SD15 AND 18" x 23" CMPA TO C.B.
10. SEE SPECIFICATIONS ON CITY YARD & FIRE TRAINING AREA.

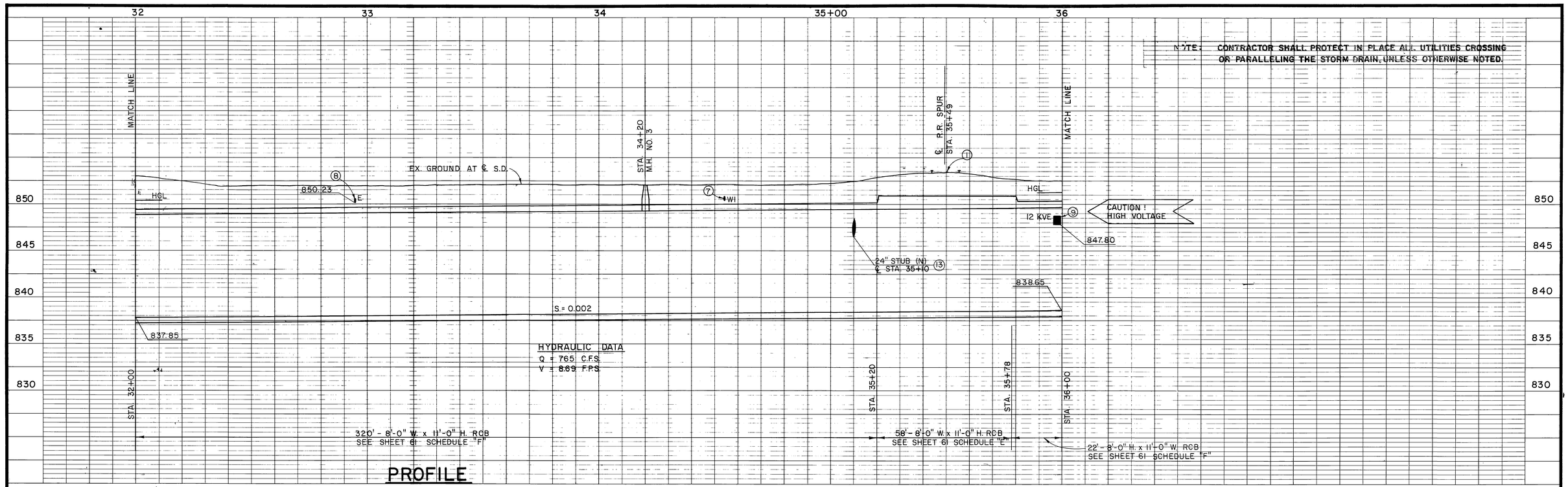
INDEXED 9-3-87 LFH

D-527

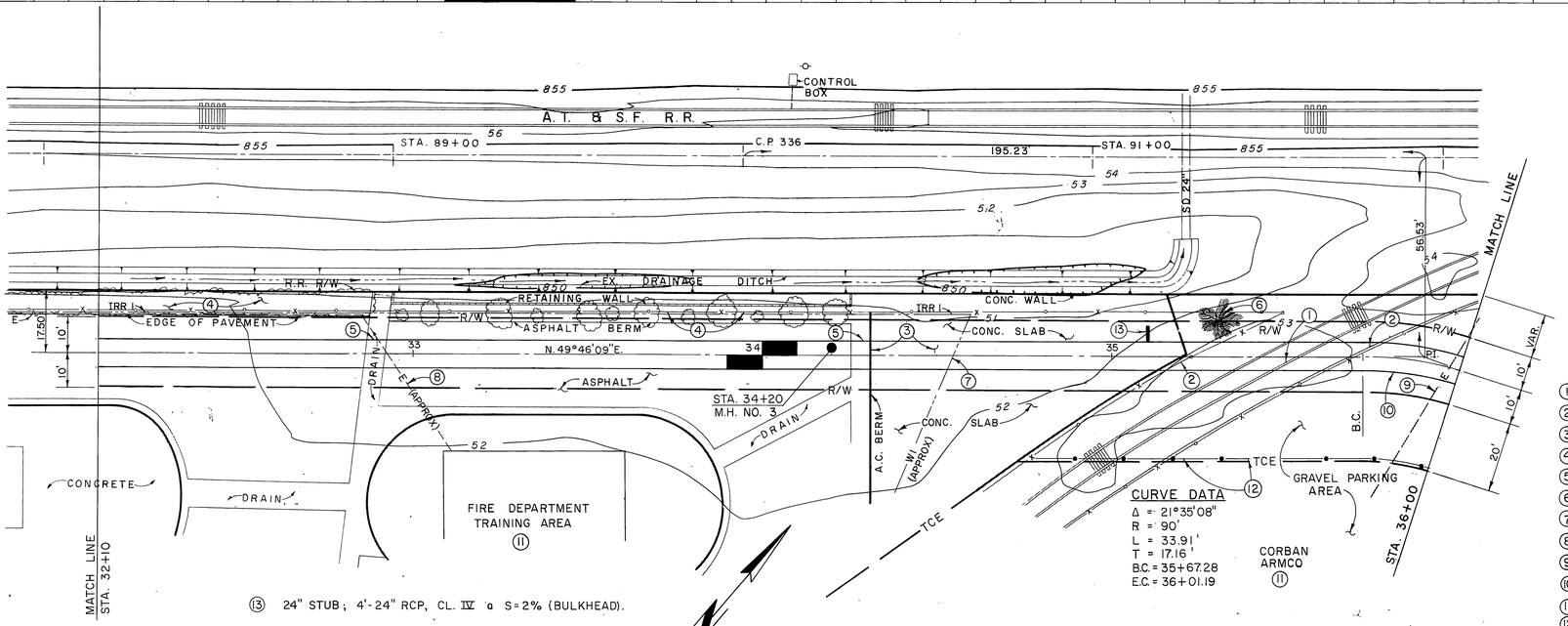
BENCH MARK	REVISIONS				RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT		MONROE S.D. - RAILROAD LATERAL	PROJECT NO. 1-0-072
					DESIGNED BY: J.R.C.	APPROVED BY: Kenneth L. Sikorski	STA. 27+90 TO STA. 32+10	DRAWING NO. 1-385
SCALE:					DRAWN BY: D.L.P.	CHIEF ENGINEER R.E. NO. 12400	1970 STORM DRAIN BOND ISSUE PROJECT NO. 16	SHEET NO. 8 OF 69
DATE:	C6	Changed Note 2	JBK	2/13/85	DATE DRAWN: 6-82			
	REF.	DESCRIPTION	APPR.	DATE	CHECKED BY: A.G.K.	DATE: 7-18-83		

AS BUILT

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



PROFILE

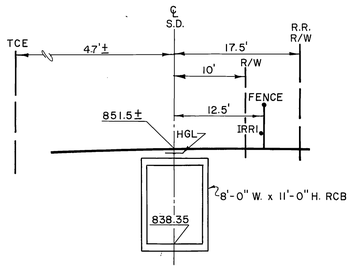


⑬ 24" STUB; 4'-24" RCP, CL. IV @ S=2% (BULKHEAD).

PLAN

1" = 20'

20' 0 20'



SECTION AT STA. 34+50

10' 0 10'

1. OPEN CUT R.R. CROSSING. SEE SPECIFICATIONS.
2. REMOVE & RESTORE FENCE & BLOCK WALL.
3. REMOVE & REPLACE A.C. BERM & 4" CONC. SLAB.
4. PROTECT EXISTING SHRUB, FENCE, WALL, AND IRR. IN PLACE.
5. REMOVE & REPLACE CONC. GUTTER.
6. PROTECT PALM TREE IN PLACE.
7. APPROX. LOCATION WI. RELOCATE IF REQUIRED.
8. PROTECT ELECTRICAL IN PLACE.
9. 12 KVE LINE RELOCATED BY CITY FORCES PRIOR TO CONSTRUCTION.
10. REPLACE GRAVEL.
11. SEE SPECIFICATIONS ON FIRE TRAINING AREA & CORBAN ARMCO.
12. TEMPORARY 6' CHAIN LINK FENCE ON T.C.E. ACROSS ARMCO YARD.

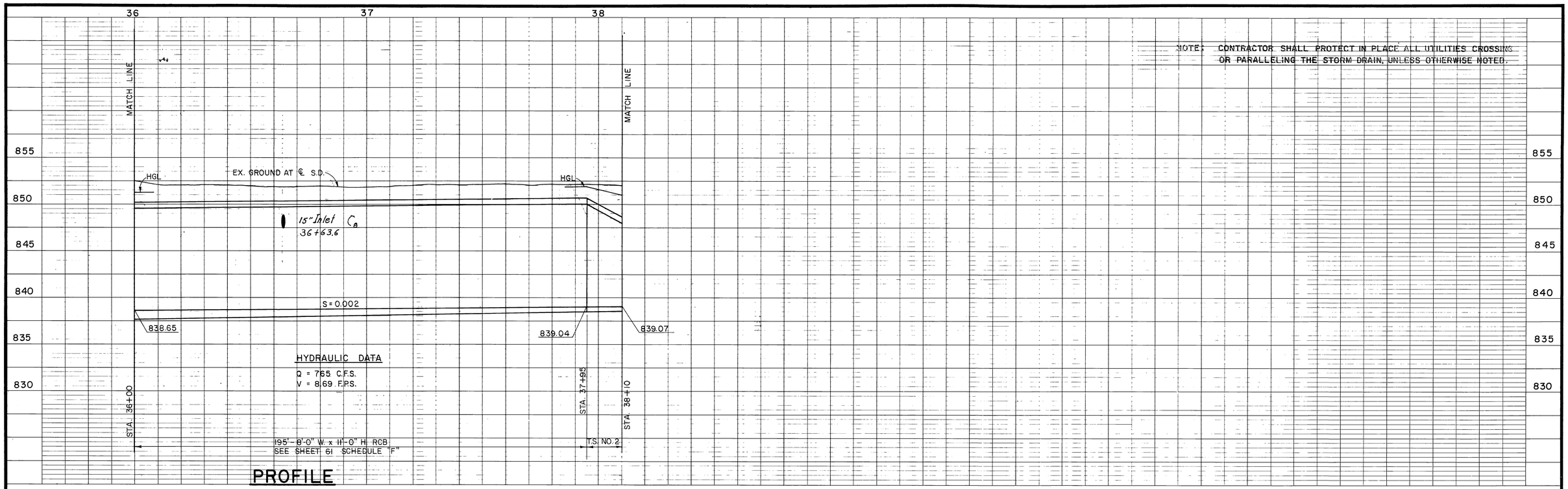
INDEXED 9-3-87 4th

D-527

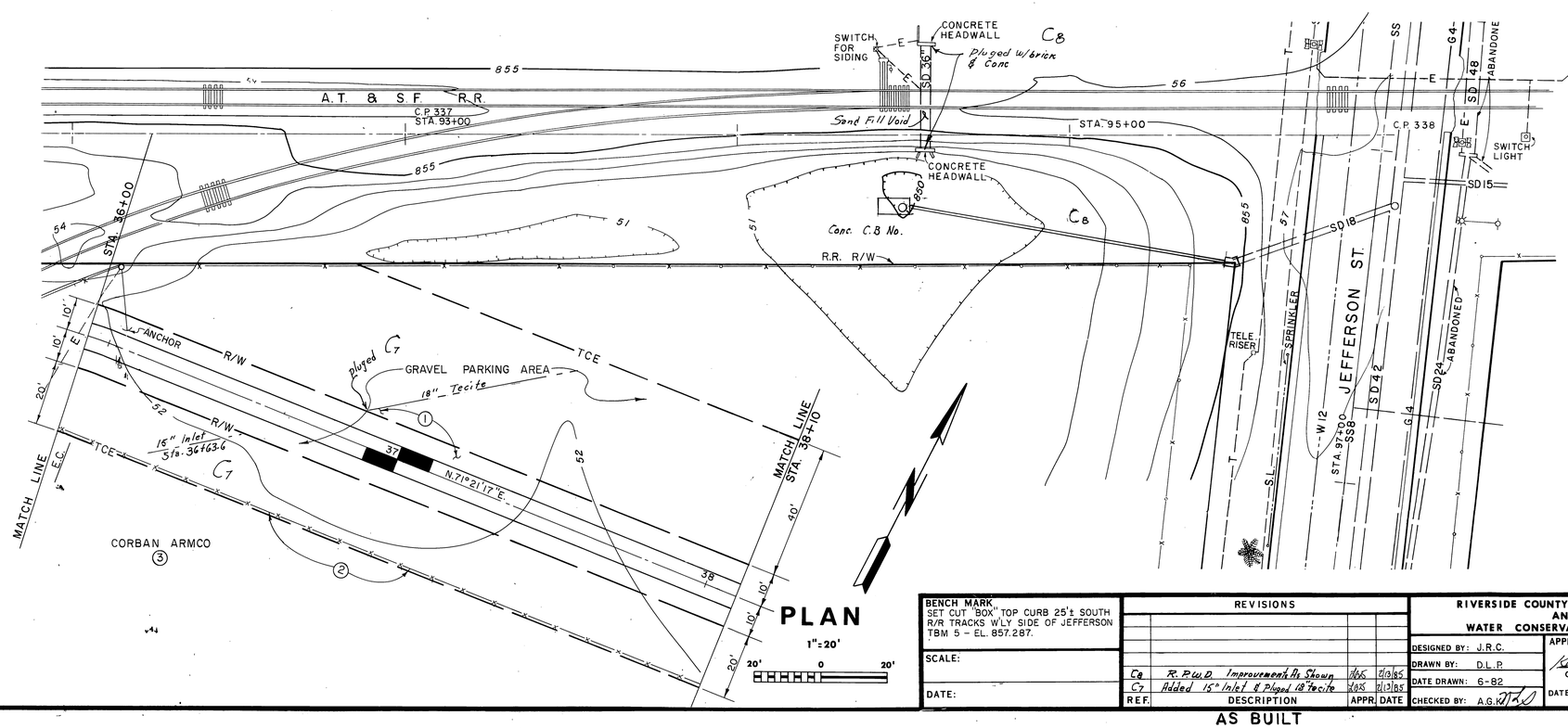
BENCH MARK	REVISIONS				RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	MONROE S.D. - RAILROAD LATERAL STA. 32+10 TO STA. 36+00 1970 STORM DRAIN BOND ISSUE PROJECT NO. 16	PROJECT NO. 1-0-072
SCALE:					DESIGNED BY: J.R.C. / DRAWN BY: D.L.P. / DATE DRAWN: 6-82 / CHECKED BY: A.G.K.	APPROVED BY: Kenneth F. Edwards, CHIEF ENGINEER R.E. NO. 12400 / DATE: 7-18-83	DRAWING NO. 1-385
DATE:	REF.	DESCRIPTION	APPR.	DATE			SHEET NO. 9 OF 69

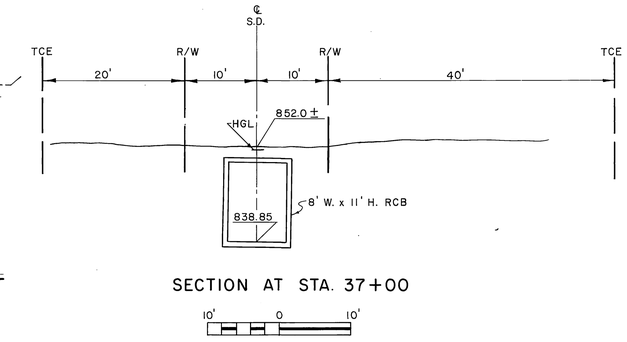
AS BUILT

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



PROFILE





SECTION AT STA. 37+00

1. REPLACE GRAVEL
2. TEMPORARY 6' CHAIN LINK FENCE ON TCE ACROSS ARMCO YARD.
3. SEE SPECIFICATIONS CONCERNING CORBAN ARMCO.

INDEXED 9-3-87 LH

D-527

BENCH MARK	SET CUT "BOX" TOP CURB 25'± SOUTH R/R TRACKS W'LY SIDE OF JEFFERSON TBM 5 - EL. 857.287.
SCALE:	
DATE:	

REVISIONS

REF.	DESCRIPTION	APPR.	DATE
C8	R.P.W.D. Improvements As Shown	JDS	2/13/85
C7	Added 15" Inlet & Plugged 18" Tecite	JDS	2/13/85

AS BUILT

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: J.R.C.
DRAWN BY: D.L.P.
DATE DRAWN: 6-82
CHECKED BY: A.G.

APPROVED BY: Kenneth L. Edwards
CHIEF ENGINEER R.E. NO. 12400
DATE: 7-18-83

MONROE S.D. - RAILROAD LATERAL

STA. 36+00 TO STA. 38+10

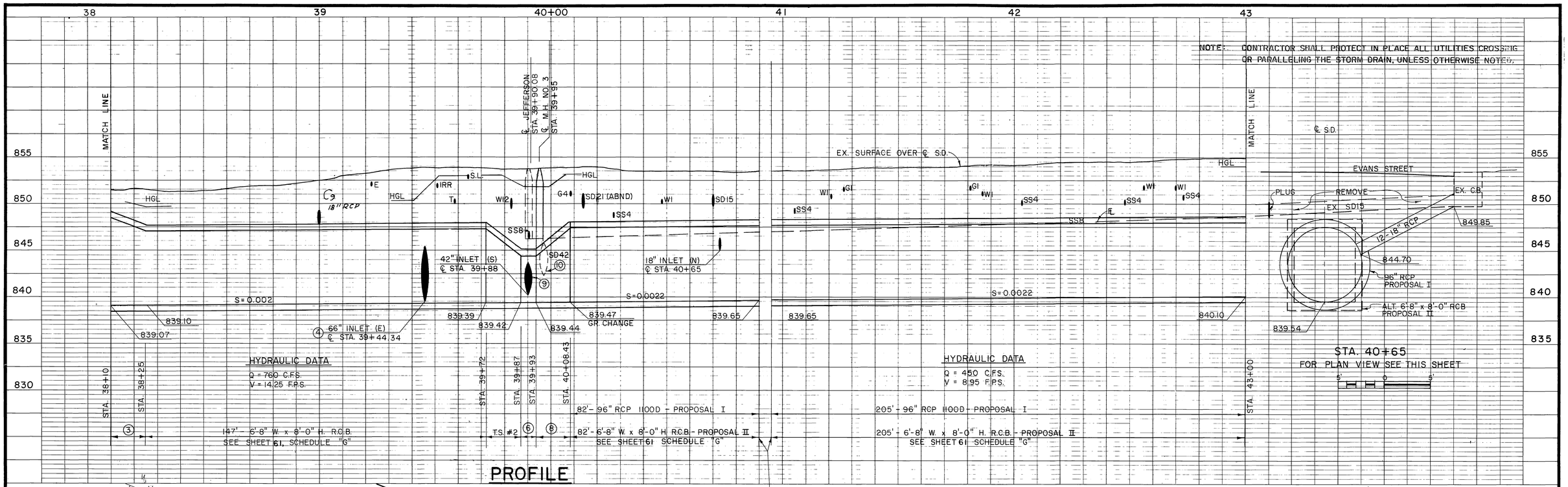
1970 STORM DRAIN BOND ISSUE PROJECT NO. 16

PROJECT NO. 1-0-072

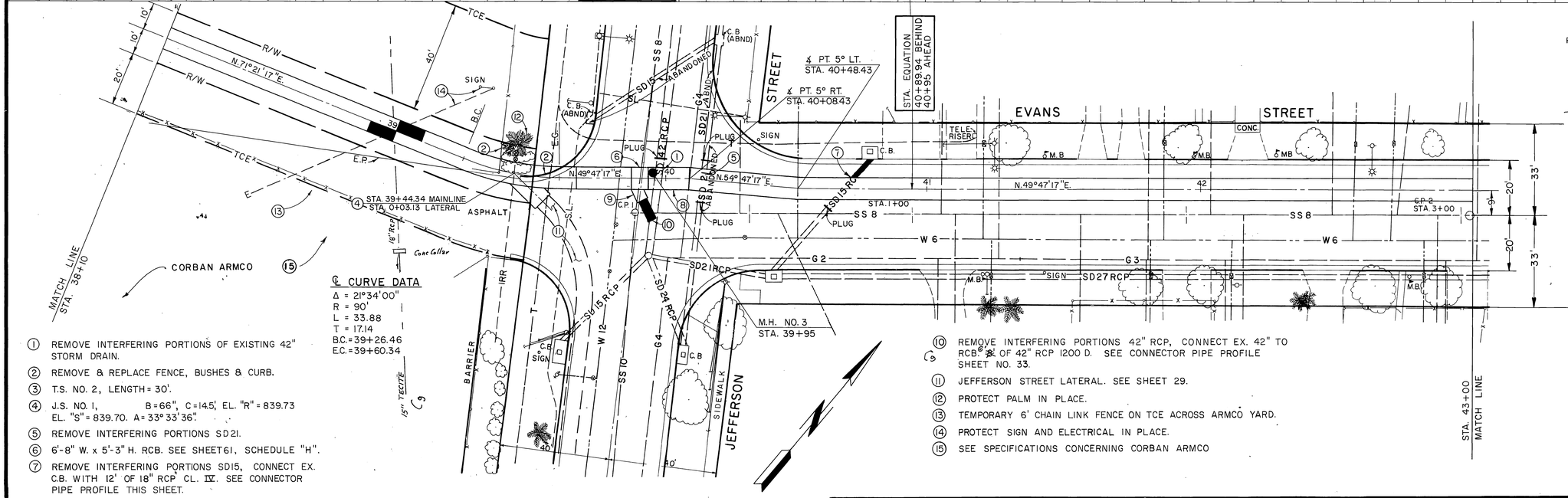
DRAWING NO. 1-385

SHEET NO. 10 OF 69

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



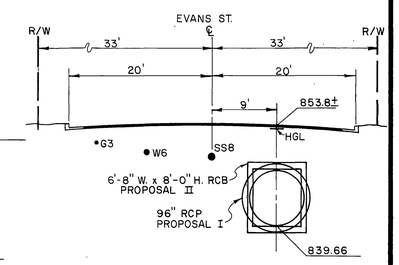
PROFILE



PLAN

1" = 20'

20' 0 20'



SECTION AT STA. 41+00

10' 0 10'

℄ CURVE DATA

Δ = 21°34'00"
R = 90'
L = 33.88
T = 17.14
B.C. = 39+26.46
E.C. = 39+60.34

1. REMOVE INTERFERING PORTIONS OF EXISTING 42" STORM DRAIN.
2. REMOVE & REPLACE FENCE, BUSHES & CURB.
3. T.S. NO. 2, LENGTH = 30'.
4. J.S. NO. 1, B = 66", C = 14.5', EL. "R" = 839.73 EL. "S" = 839.70. A = 33° 33' 36".
5. REMOVE INTERFERING PORTIONS SD21.
6. 6'-8" W. x 5'-3" H. RCB. SEE SHEET 61, SCHEDULE "H".
7. REMOVE INTERFERING PORTIONS SD15, CONNECT EX. C.B. WITH 12' OF 18" RCP CL. IV. SEE CONNECTOR PIPE PROFILE THIS SHEET.
8. PROPOSAL I, T.S. NO. 1. PROPOSAL II, T.S. NO. 2.
9. J.S. NO. 1, A = 65°, B = 42", C = 8.5', EL. "R" = 840.66, EL. "S" = 840.00
10. REMOVE INTERFERING PORTIONS 42" RCP, CONNECT EX. 42" TO RCB. ⊗ OF 42" RCP 1200 D. SEE CONNECTOR PIPE PROFILE SHEET NO. 33.
11. JEFFERSON STREET LATERAL. SEE SHEET 29.
12. PROTECT PALM IN PLACE.
13. TEMPORARY 6' CHAIN LINK FENCE ON TCE ACROSS ARMCO YARD.
14. PROTECT SIGN AND ELECTRICAL IN PLACE.
15. SEE SPECIFICATIONS CONCERNING CORBAN ARMCO

INDEXED 9-3-87 LH

D-527

BENCH MARK
SET CUT "X" TOP FIRE HYD. SW'LY COR. INT. EVANS & JEFFERSON. TBM 6 - EL. 857.593.

SCALE:

DATE:

REVISIONS			
REF.	DESCRIPTION	APPR.	DATE
Co	Changes As Shown		2/13/85

AS BUILT

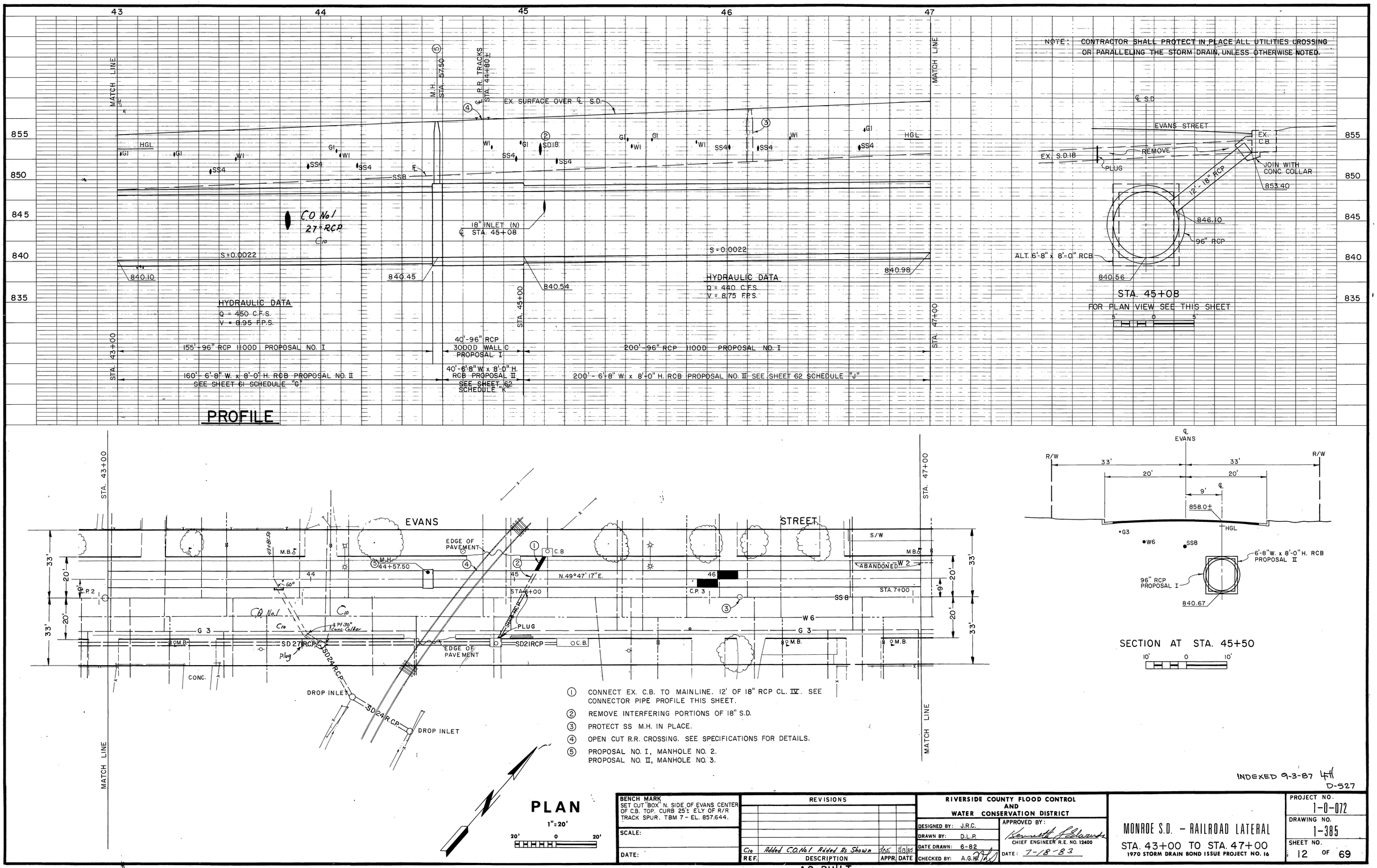
RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: J.R.C.
DRAWN BY: D.L.P.
DATE DRAWN: 7-82
CHECKED BY: A.G.K.

APPROVED BY: Kenneth J. Edwards
CHIEF ENGINEER R.E. NO. 12400
DATE: 7-18-83

MONROE S.D. - RAILROAD LATERAL
STA. 38+10 TO STA. 43+00
1970 STORM DRAIN BOND ISSUE PROJECT NO. 16

PROJECT NO. 1-0-072
DRAWING NO. 1-385
SHEET NO. 11 OF 69



① CONNECT EX. C.B. TO MAINLINE. 12' OF 18" RCP CL. IV. SEE CONNECTOR PIPE PROFILE THIS SHEET.

② REMOVE INTERFERING PORTIONS OF 18" S.D.

③ PROTECT SS M.H. IN PLACE.

④ OPEN CUT R.R. CROSSING. SEE SPECIFICATIONS FOR DETAILS.

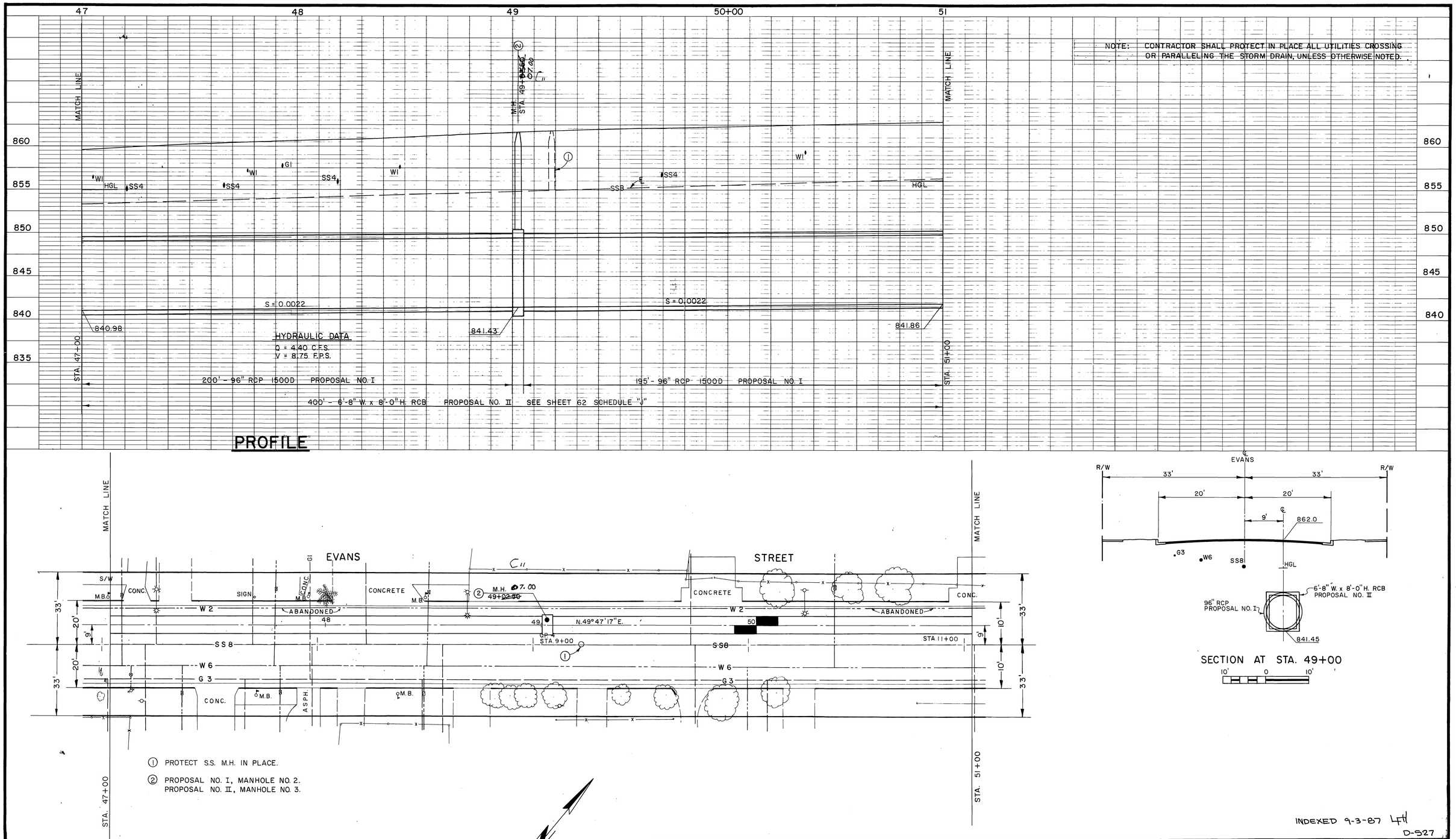
⑤ PROPOSAL NO. I, MANHOLE NO. 2.
PROPOSAL NO. II, MANHOLE NO. 3.

INDEXED 9-3-87 LH
D-527

BENCH MARK	REVISIONS	RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	MONROE S.D. - RAILROAD LATERAL	PROJECT NO. 1-0-072
SET CUT "BOX" N. SIDE OF EVANS CENTER OF C.B. TOP. CURB 25'± E'LY OF R/R TRACK SPUR. TBM 7 - EL. 857.644.		DESIGNED BY: J.R.C.	STA. 43+00 TO STA. 47+00	DRAWING NO. 1-385
SCALE:		DRAWN BY: D.L.P.	1970 STORM DRAIN BOND ISSUE PROJECT NO. 16	SHEET NO. 12 OF 69
DATE:	C10 Added C.O. No 1 Added As Shown	DATE DRAWN: 6-82		
	REF. DESCRIPTION APPR. DATE	CHECKED BY: A.G.K.		

APPROVED BY: Kenneth L. Edwards
CHIEF ENGINEER R.E. NO. 12400
DATE: 7-18-83

AS BUILT



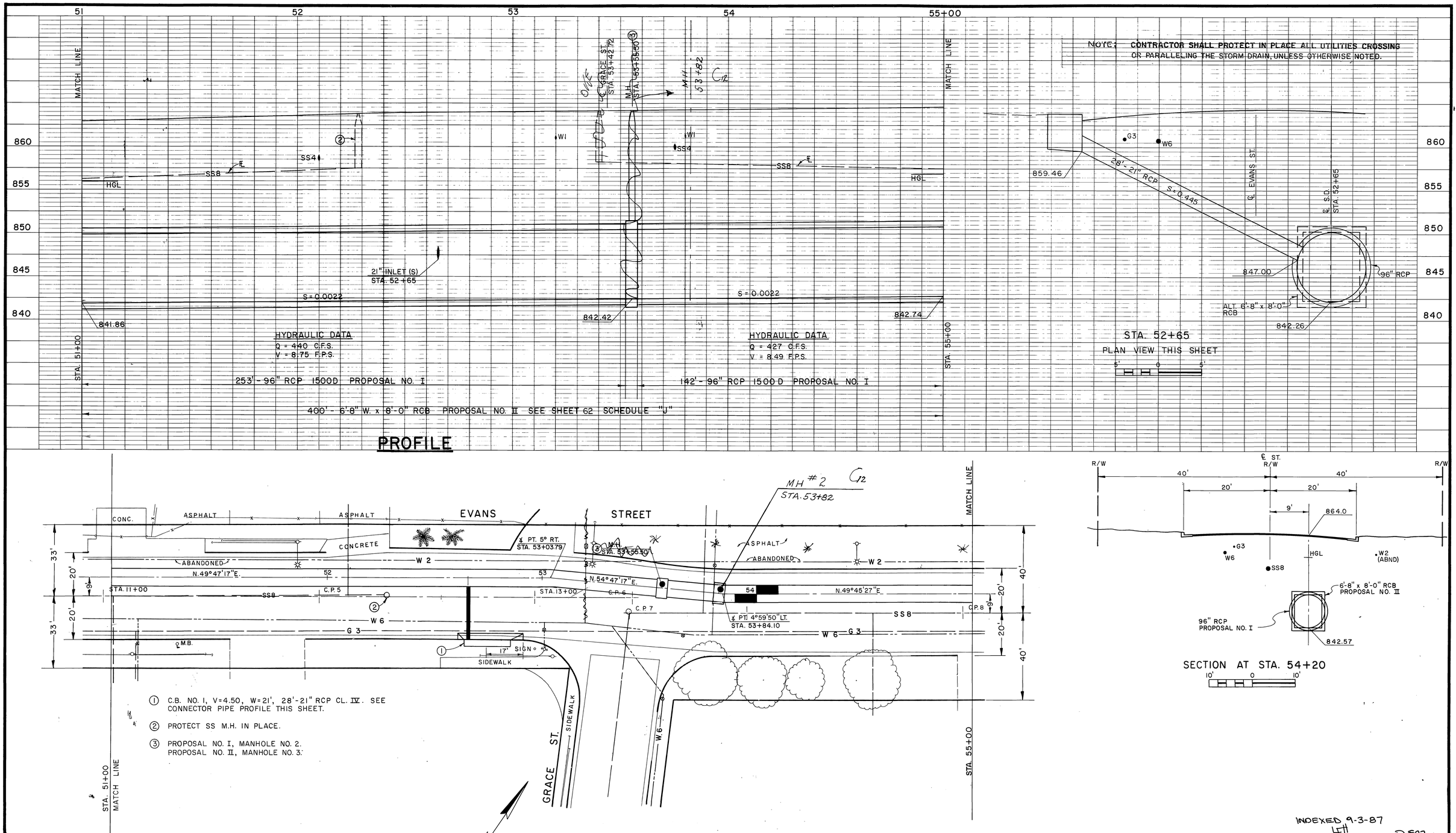
NOTE: CONTRACTOR SHALL PROTECT IN PLACE ALL UTILITIES CROSSING OR PARALLELING THE STORM DRAIN, UNLESS OTHERWISE NOTED.

INDEXED 9-3-87 LFH

D-527

BENCH MARK SET CUT "BOX" BACK EDGE AT EDGE OF SIDEWALK IN FRONT OF TORTILLERIA 7771 EVANS ST. NORTH SIDE. TBM 8 - EL. 861.450.	REVISIONS	RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	MONROE S.D. - RAILROAD LATERAL STA. 47+00 TO STA. 51+00 1970 STORM DRAIN BOND ISSUE PROJECT NO. 16
SCALE:		DESIGNED BY: J.R.C. DRAWN BY: D.L.P. DATE DRAWN: 6-82 CHECKED BY: A.G.K.	PROJECT NO. 1-0-072 DRAWING NO. 1-385 SHEET NO. 13 OF 69
DATE:	C11 Sta. Change 2/13/85 REF. DESCRIPTION APPR. DATE	APPROVED BY: Kenneth F. Edwards CHIEF ENGINEER R.E. NO. 12400 DATE: 7-18-83	

AS BUILT

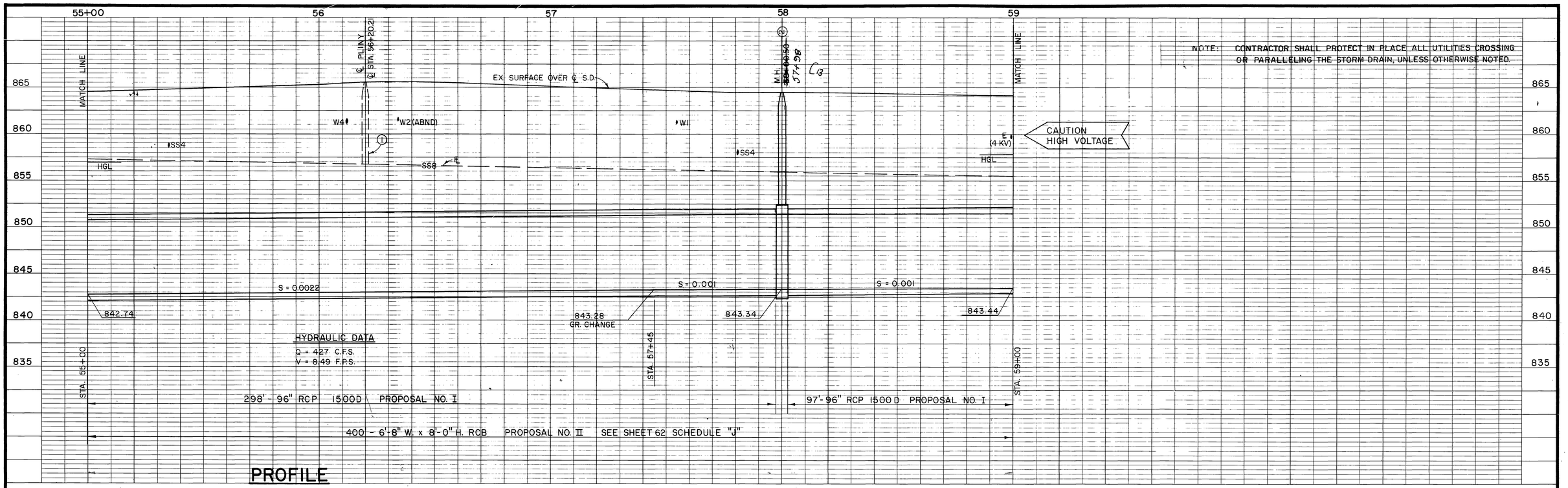


INDEXED 9-3-87
LFH
D-527

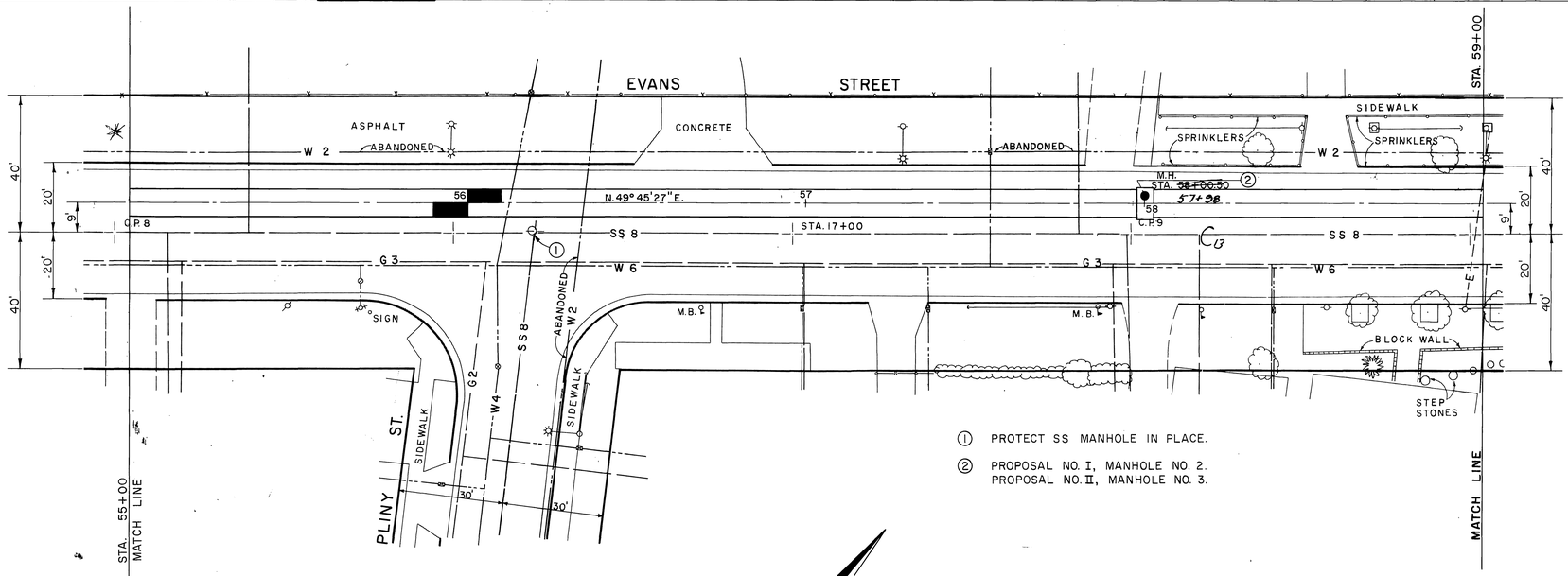
BENCH MARK	REVISIONS			RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT		MONROE S.D. - RAILROAD LATERAL	PROJECT NO. 1-0-072
SET CUT "X" TOP FIRE HYD. SW'LY COR. GRACE & EVANS. TBM 9 - EL. 866.680.				DESIGNED BY: J.R.C.	APPROVED BY: Kenneth F. Edwards	STA. 51+00 TO STA. 55+00	DRAWING NO. 1-385
SCALE:				DRAWN BY: D.L.P.	CHIEF ENGINEER R.E. NO. 12400	1970 STORM DRAIN BOND ISSUE PROJECT NO. 16	SHEET NO. 14 OF 69
DATE:	C12 Move M.H. No. 2 to Sta 53+82		2/13/85	DATE DRAWN: 6-82	DATE: 7-13-83		
	REF. DESCRIPTION	APPR.	DATE	CHECKED BY: A.G.K.			

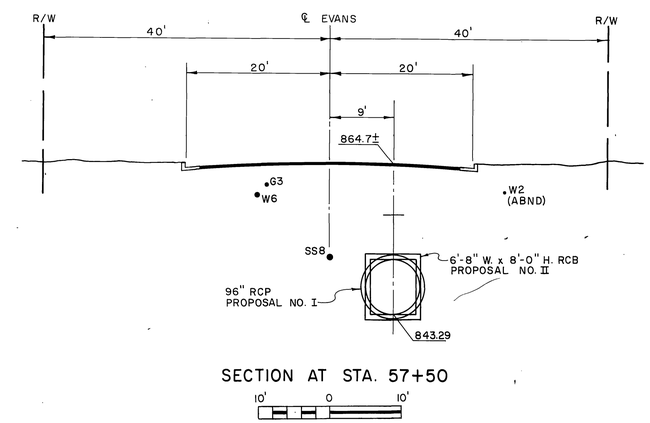
AS BUILT

13



PROFILE





SECTION AT STA. 57+50

PLAN

1"=20'

20' 0 20'

BENCH MARK	CUT "X" TOP FIRE HYD. SW'LY COR. INT. PLINY & EVANS. TBM 10 - EL. 868.104.
SCALE:	
DATE:	

REVISIONS

REF.	DESCRIPTION	APPR.	DATE
GG	MH Sta Changed	GGS	2/13/85

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: J.R.C.
DRAWN BY: D.L.P.
DATE DRAWN: 6-82
CHECKED BY: A.G.K.

APPROVED BY: Kenneth L. Edwards
CHIEF ENGINEER R.E. NO. 12400
DATE: 2-18-83

MONROE S.D. - RAILROAD LATERAL
STA. 55+00 TO STA. 59+00
1970 STORM DRAIN BOND ISSUE PROJECT NO. 16

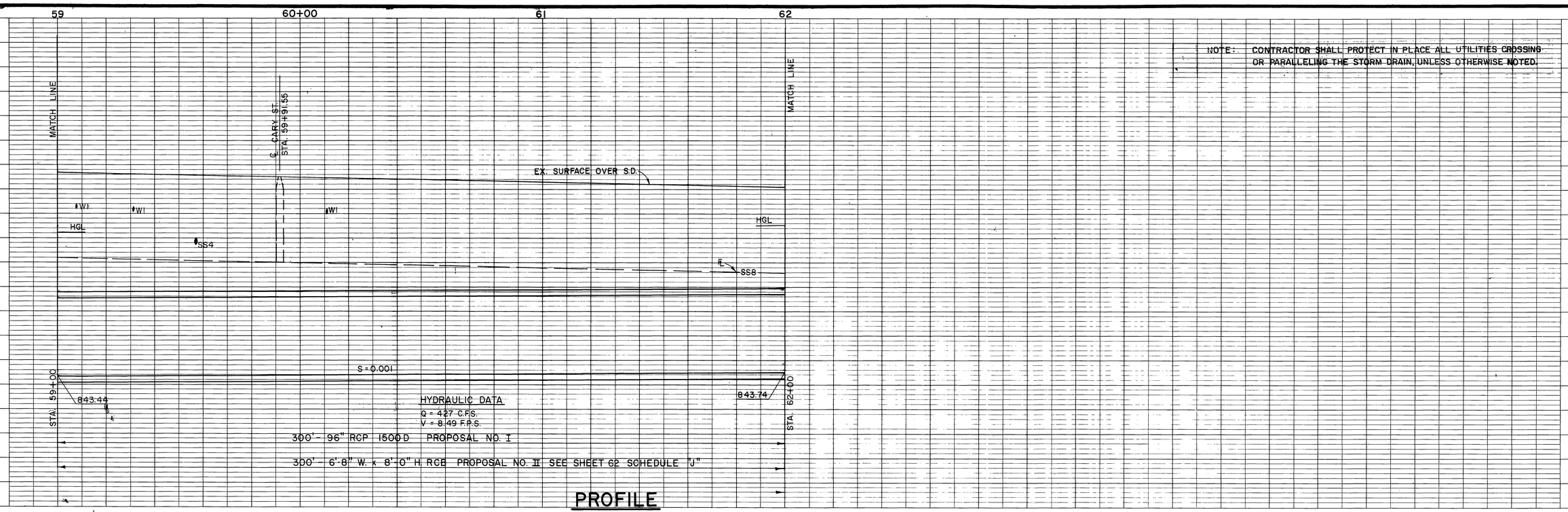
PROJECT NO. 1-0-072
DRAWING NO. 1-385
SHEET NO. 15 OF 69

INDEXED 9-3-87 4TH

D-527

AS BUILT

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

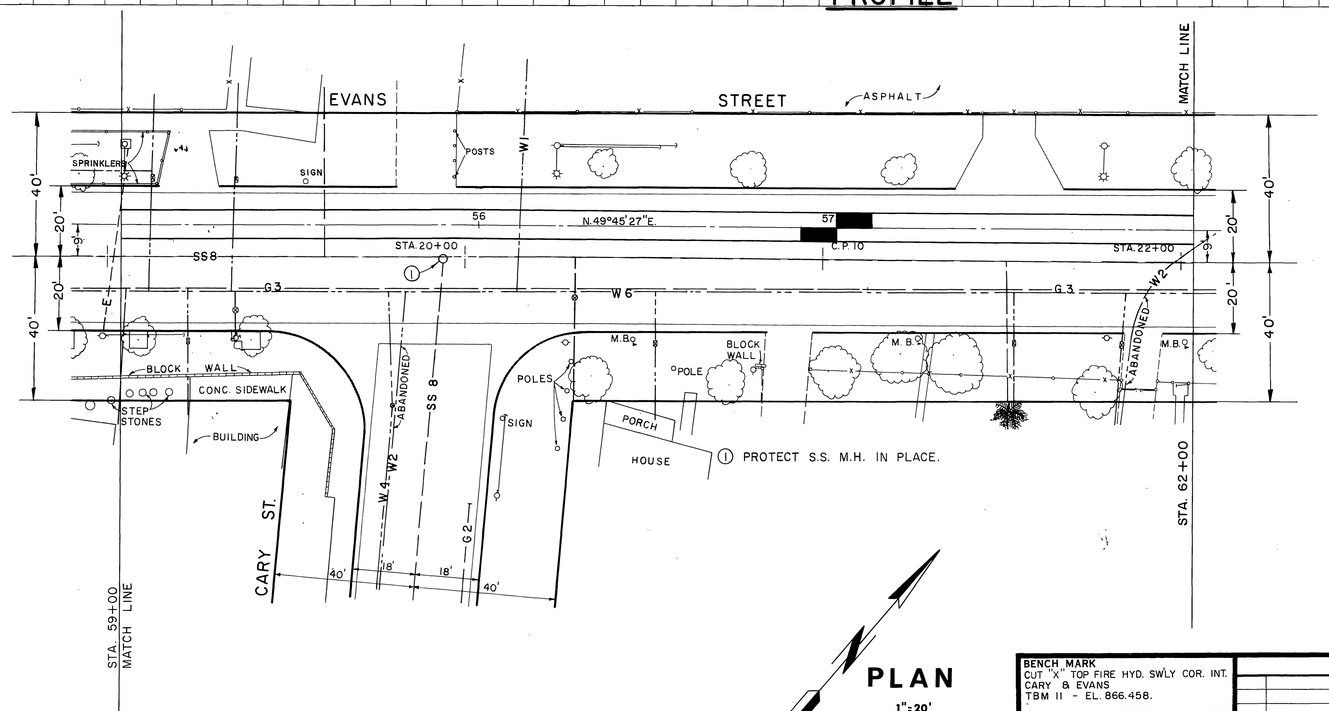


HYDRAULIC DATA
Q = 427 C.F.S.
V = 8.49 F.P.S.

300' - 96" RCP 1500 D PROPOSAL NO. I

300' - 6'-8" W. x 8'-0" H. RCB PROPOSAL NO. II SEE SHEET 62 SCHEDULE "J"

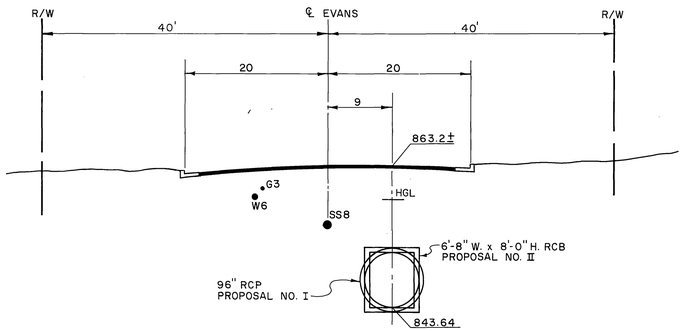
PROFILE



PLAN

1" = 20'

20' 0 20'



SECTION AT STA. 61+00

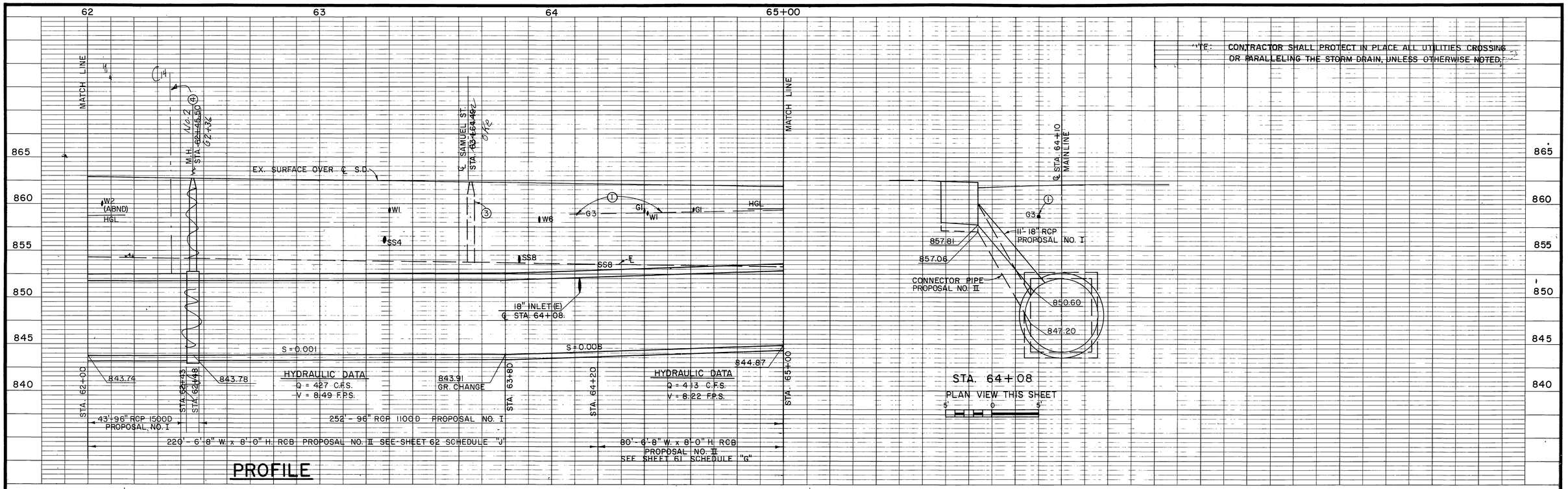
INDEXED 9-3-87 LH

D-527

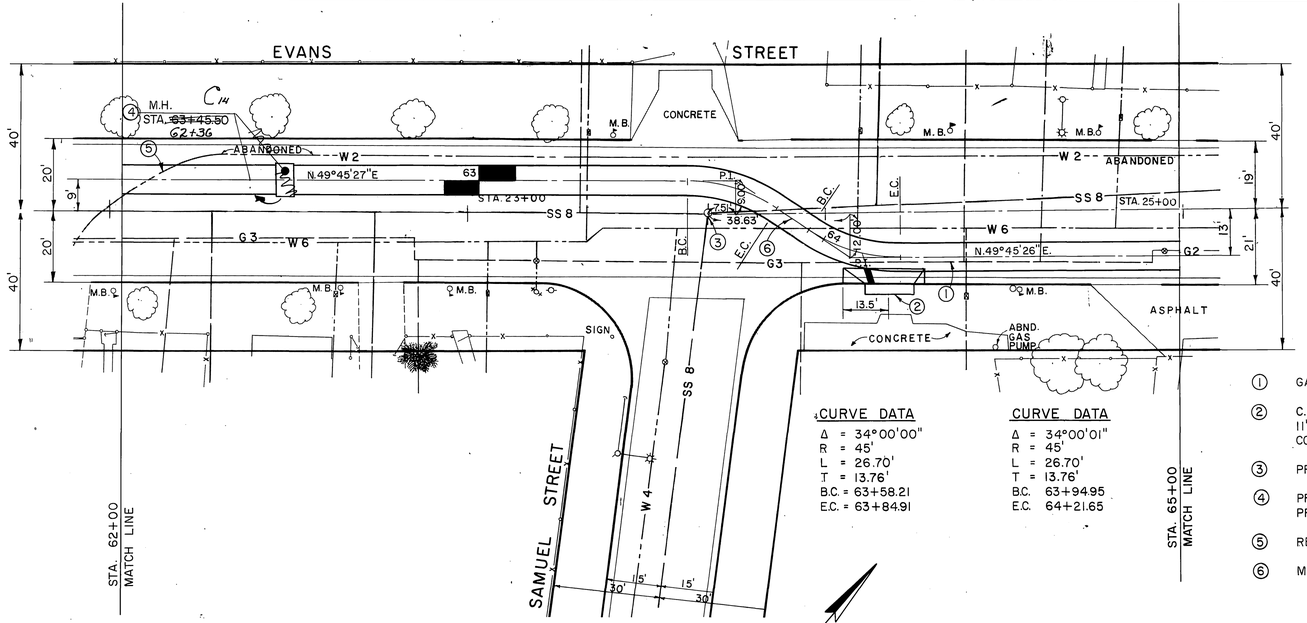
BENCH MARK	REVISIONS			RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT		PROJECT NO. 1-0-072
CUT "X" TOP FIRE HYD. SWLY COR. INT. CARY & EVANS TBM II - EL. 866.458.				DESIGNED BY: J.R.C.	APPROVED BY: Kenneth L. Edwards	DRAWING NO. 1-385
SCALE:				DRAWN BY: D.L.P.	CHIEF ENGINEER R.E. NO. 12400	
				DATE DRAWN: 6-82	DATE: 7-18-83	
DATE:	No Change			CHECKED BY: A.G.K.		SHEET NO. 16 OF 69
	REF.	DESCRIPTION	APPR. DATE			

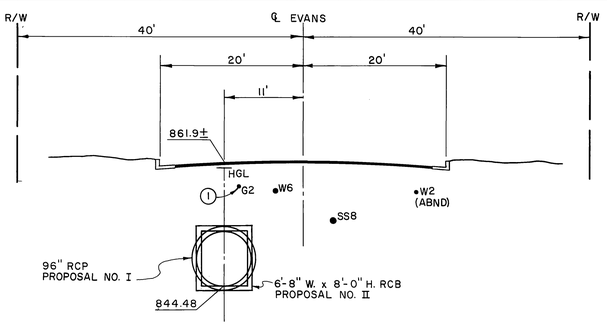
MONROE S.D. - RAILROAD LATERAL
STA. 59+00 TO STA. 62+00
1970 STORM DRAIN BOND ISSUE PROJECT NO. 16

AS BUILT



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





SECTION AT STA. 64+50

10' 0 10'

CURVE DATA
Δ = 34°00'00"
R = 45'
L = 26.70'
T = 13.76'
B.C. = 63+58.21
E.C. = 63+84.91

CURVE DATA
Δ = 34°00'01"
R = 45'
L = 26.70'
T = 13.76'
B.C. 63+94.95
E.C. 64+21.65

① GAS MAIN TO BE RELOCATED (ABND) BY OTHERS PRIOR TO CONSTRUCTION.

② C.B. NO. 1, V = 4.5' (PROPOSAL NO. I), 5.25' (PROPOSAL NO. II), W = 14', 11'-18" R.C.P. CL. IV, PROPOSAL I; 14'-18" RCP CL. IV, PROPOSAL II. SEE CONNECTOR PIPE PROFILE THIS SHEET.

③ PROTECT S.S. M.H. IN PLACE.

④ PROPOSAL NO. I, M.H. NO. 2.
PROPOSAL NO. II, M.H. NO. 3.

⑤ REMOVE INTERFERING PORTIONS W2 AND PLUG ENDS.

⑥ MAINLINE ℄ BEARING BETWEEN CURVES N.83°45'27"E. (10.04').

INDEXED 9-3-87 4H

D-527

PLAN
1" = 20'
20' 0 20'

BENCH MARK
SET CUT "X" TOP FIRE HYD. SW'LY COR. INT. OF SAMUEL AND EVANS.
TBM 12 - EL. 864.968

SCALE:

DATE:

REVISIONS

REF.	DESCRIPTION	APPR.	DATE
C14	Change M.H. Sta to	JBS	2/13/85

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: J.R.C.
DRAWN BY: D.L.P.
DATE DRAWN: 6-82
CHECKED BY: A.G.K.

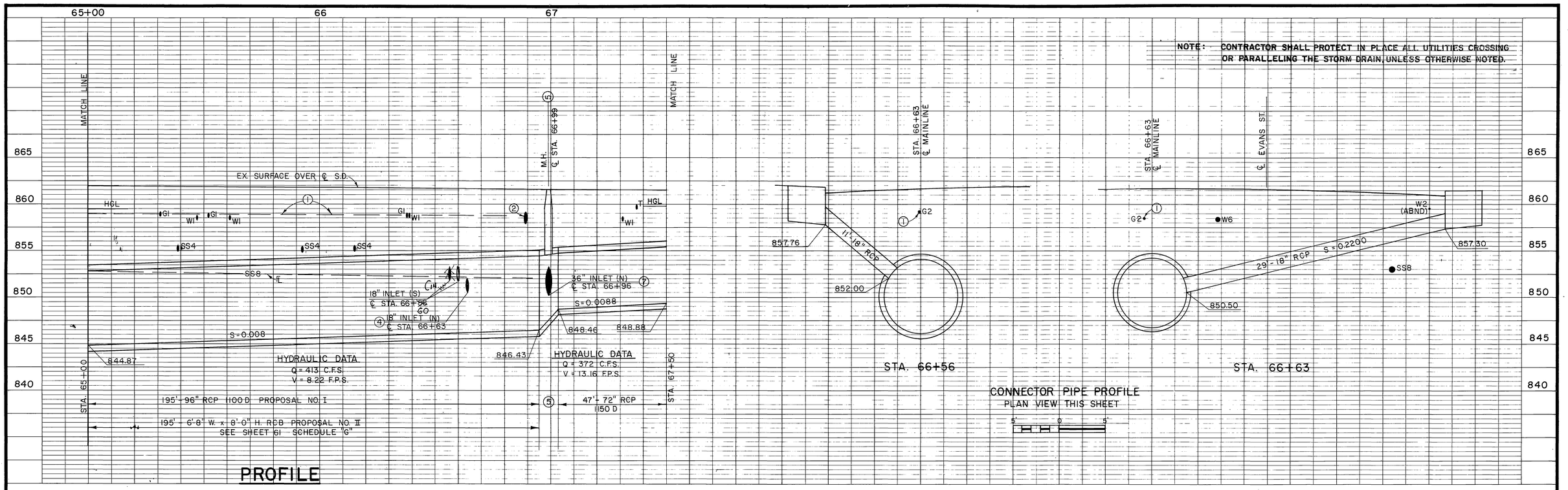
APPROVED BY: Kenneth P. Edwards
CHIEF ENGINEER R.E. NO. 12400
DATE: 7-18-83

MONROE S.D. - RAILROAD LATERAL
STA. 62+00 TO STA. 65+00
1970 STORM DRAIN BOND ISSUE PROJECT NO. 16

PROJECT NO. 1-0-072
DRAWING NO. 1-385
SHEET NO. 17 OF 69

AS BUILT

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



① GAS MAIN TO BE RELOCATED BY OTHERS PRIOR TO CONSTRUCTION.

② REMOVE INTERFERING PORTIONS SD 15 & PLUG ENDS.

③ C.B. NO. 1; V = 4.0', W = 7.0', 11'-18" RCP CL. IV, CASE "C" L.D. SEE CONNECTOR PIPE PROFILE THIS SHEET.

④ C.B. NO. 1; V = 4.0', W = 7.0', 29'-18" RCP CL. IV. SEE CONNECTOR PIPE PROFILE THIS SHEET.

⑤ PROPOSAL NO. I, USE M.H. NO. 4, A = 47°, B = 36", C = 8.0', D_1 = 72" D_2 = 96", L = 7.0', EL. "R" = 850.52, EL. "S" = 850.20

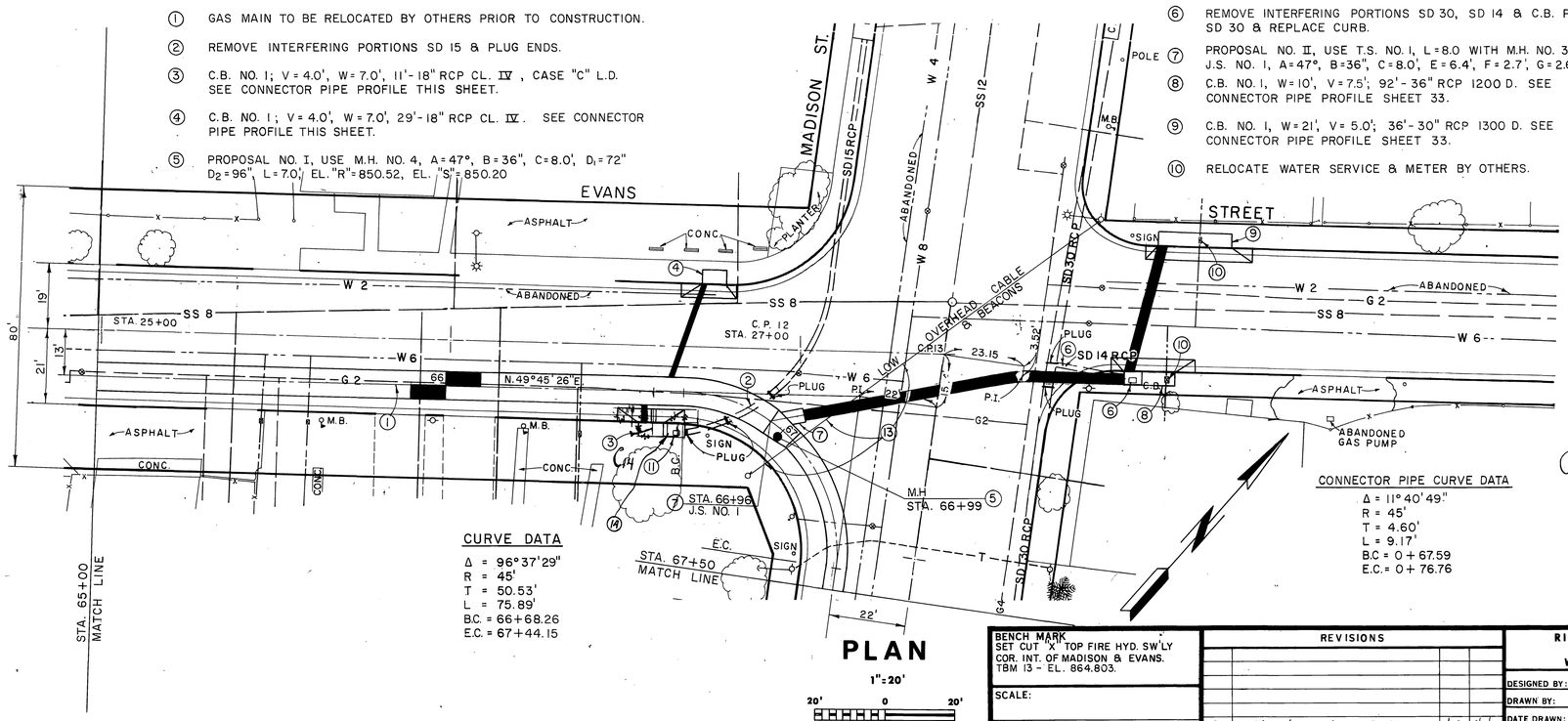
⑥ REMOVE INTERFERING PORTIONS SD 30, SD 14 & C.B. PLUG SD 30 & REPLACE CURB.

⑦ PROPOSAL NO. II, USE T.S. NO. 1, L = 8.0 WITH M.H. NO. 3 & J.S. NO. 1, A = 47°, B = 36", C = 8.0', E = 6.4', F = 2.7', G = 2.6'.

⑧ C.B. NO. 1, W = 10', V = 7.5'; 92'-36" RCP 1200 D. SEE CONNECTOR PIPE PROFILE SHEET 33.

⑨ C.B. NO. 1, W = 21', V = 5.0'; 36'-30" RCP 1300 D. SEE CONNECTOR PIPE PROFILE SHEET 33.

⑩ RELOCATE WATER SERVICE & METER BY OTHERS.



CURVE DATA

Δ = 96°37'29"
R = 45'
T = 50.53'
L = 75.89'
B.C. = 66+68.26
E.C. = 67+44.15

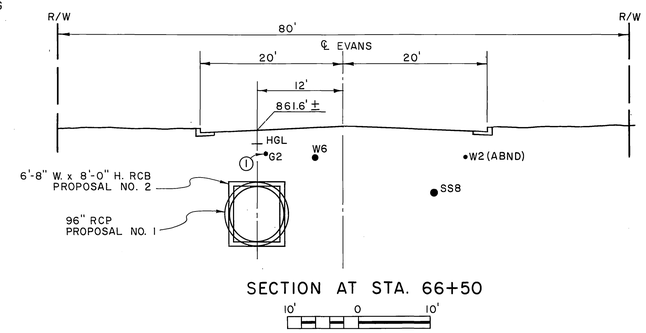
PLAN

1" = 20'

20' 0 20'

CONNECTOR PIPE CURVE DATA

Δ = 11°40'49"
R = 45'
T = 4.60'
L = 9.17'
B.C = 0 + 67.59
E.C. = 0 + 76.76



SECTION AT STA. 66+50

⑪ REMOVE EX. C.B. & REPLACE CURB.

12 SEE SPECIAL NOTE ON SHEET 20 CONCERNING W42.

⑬ CAUTION, PROTECT IN PLACE.

C14 ⑭ C.B. At Sta. 66+56 Was Moved 4' N/E Because Of Driveway 8'-18" R.C.P.

INDEXED 9-3-87 4H

D-527

BENCH MARK
SET CUT "X" TOP FIRE HYD. SW'LY COR. INT. OF MADISON & EVANS.
TBM 13 - EL. 864.803.

SCALE:

DATE:

REVISIONS			
C14	Moved C.B. 4' N.E. As Shown	RBS	7/9/85
REF.	DESCRIPTION	APPR.	DATE

AS BUILT

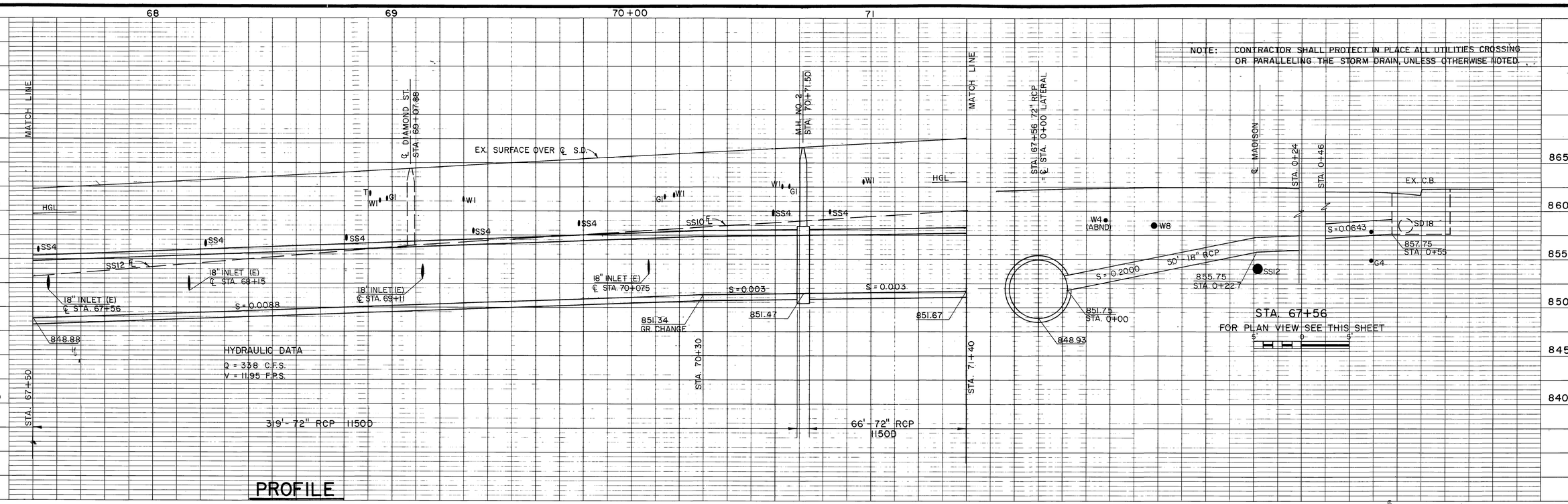
RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: J.R.C.
DRAWN BY: D.L.P.
DATE DRAWN: 6-82
CHECKED BY: A.G.K.

APPROVED BY: Kenneth L. Edwards
CHIEF ENGINEER R.E. NO. 12400
DATE: 7-18-83

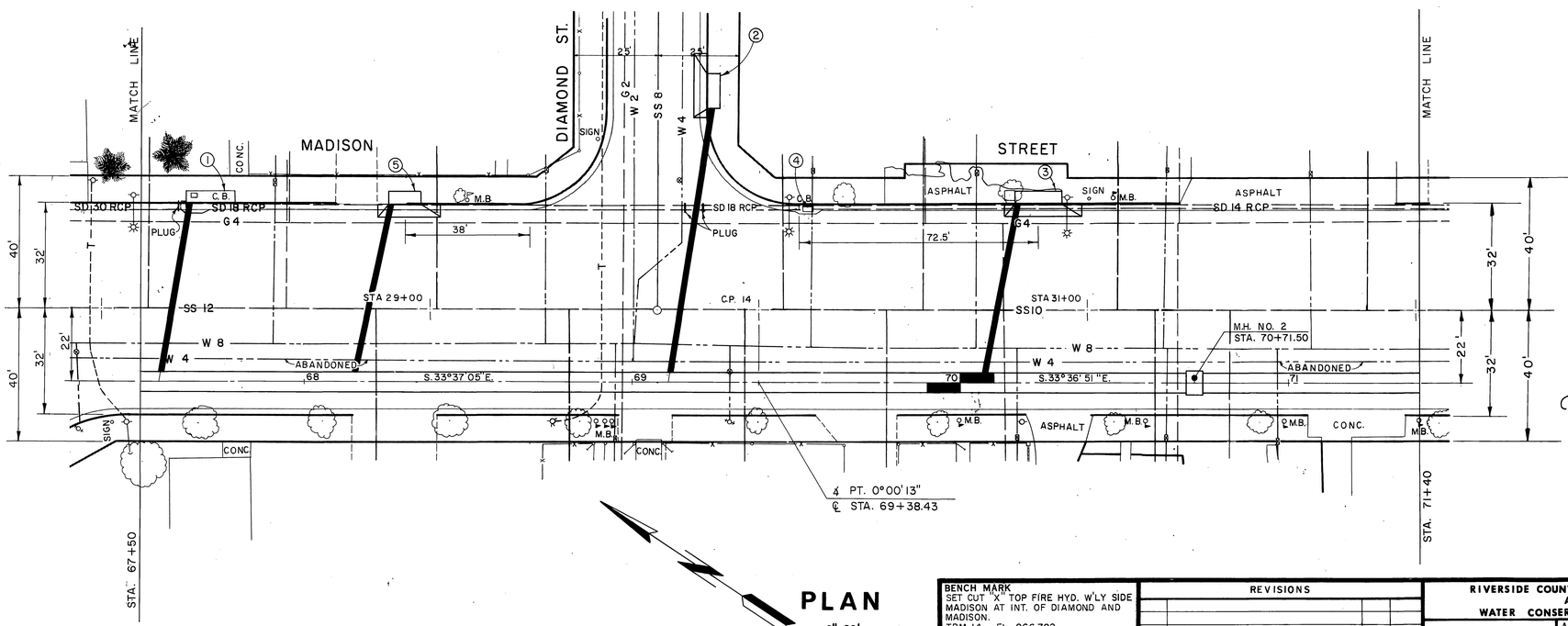
MONROE S.D. - RAILROAD LATERAL
STA. 65+00 TO STA. 67+50
1970 STORM DRAIN BOND ISSUE PROJECT NO. 16

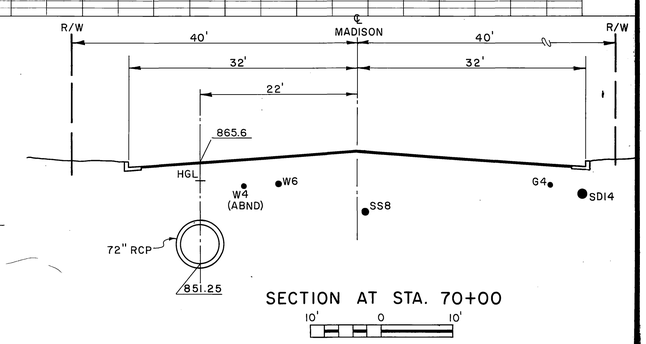
PROJECT NO. 1-0-072
DRAWING NO. 1-385
SHEET NO. 18 OF 69



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

PROFILE





SECTION AT STA. 70+00

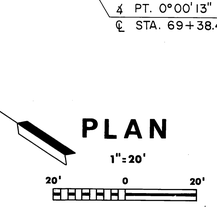
① CONNECT EX. C.B. TO MAINLINE; 50'-18" RCB CL. IV. SEE CONNECTOR PIPE PROFILE THIS SHEET.

② C.B. NO. 1, V=4.0', W=10', 81'-18" RCP CL. IV. SEE CONNECTOR PIPE PROFILE SHEET 33.

③ C.B. NO. 1, V=3.25', W=14'. 53'-18" RCP CL. IV. SEE CONNECTOR PIPE PROFILE SHEET ~~33~~ 34 C15

④ REMOVE EX. C.B. REPLACE CURB

⑤ C.B. NO. 1, V=4.0', W=10', 53'-18" R.C.P. CL. IV. SEE CONNECTOR PIPE PROFILE SHEET 34.



PLAN

1"=20'

20' 0 20'

INDEXED 9-3-87 LH

D-527

BENCH MARK	REVISIONS	RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT		PROJECT NO.
SET CUT "X" TOP FIRE HYD. W'LY SIDE MADISON AT INT. OF DIAMOND AND MADISON. TBM 14 - EL. 866.782.		DESIGNED BY: J.R.C.	APPROVED BY: Kenneth J. Edwards CHIEF ENGINEER R.E. NO. 12400	1-0-072
SCALE:		DRAWN BY: D.L.P.		DRAWING NO. 1-385
		DATE DRAWN: 6-82		SHEET NO. 19 OF 69
DATE:	C15 Change Sheet No. 2/13/85	CHECKED BY: A.G.K.	DATE: 2-18-83	
	REF. DESCRIPTION APPR. DATE			

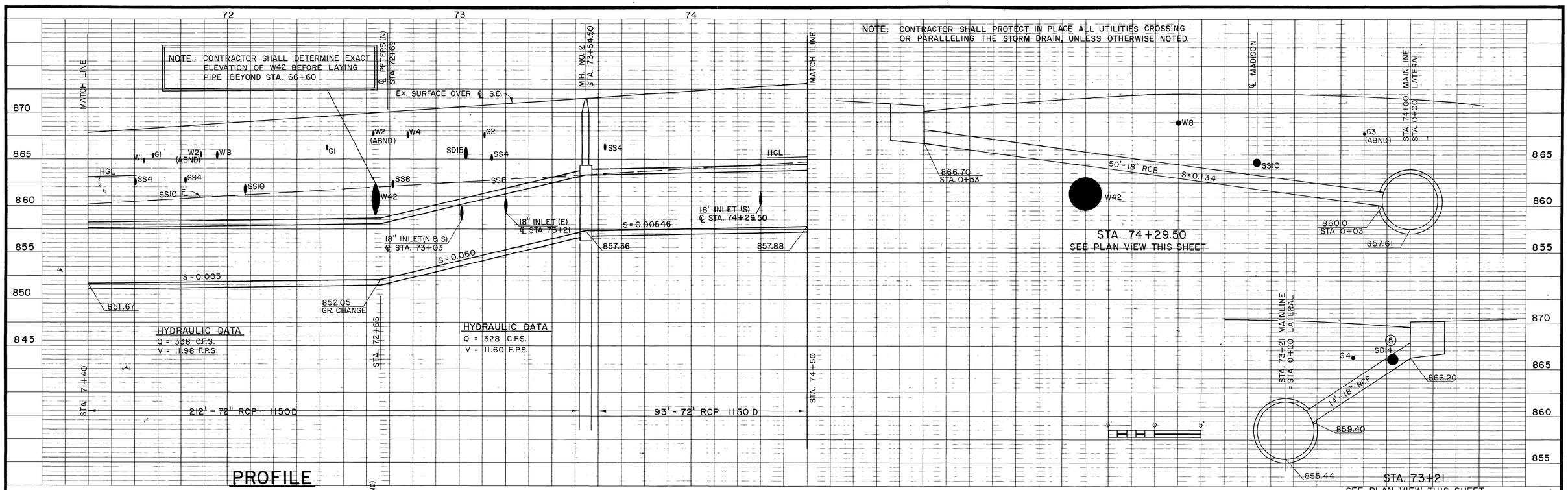
AS BUILT

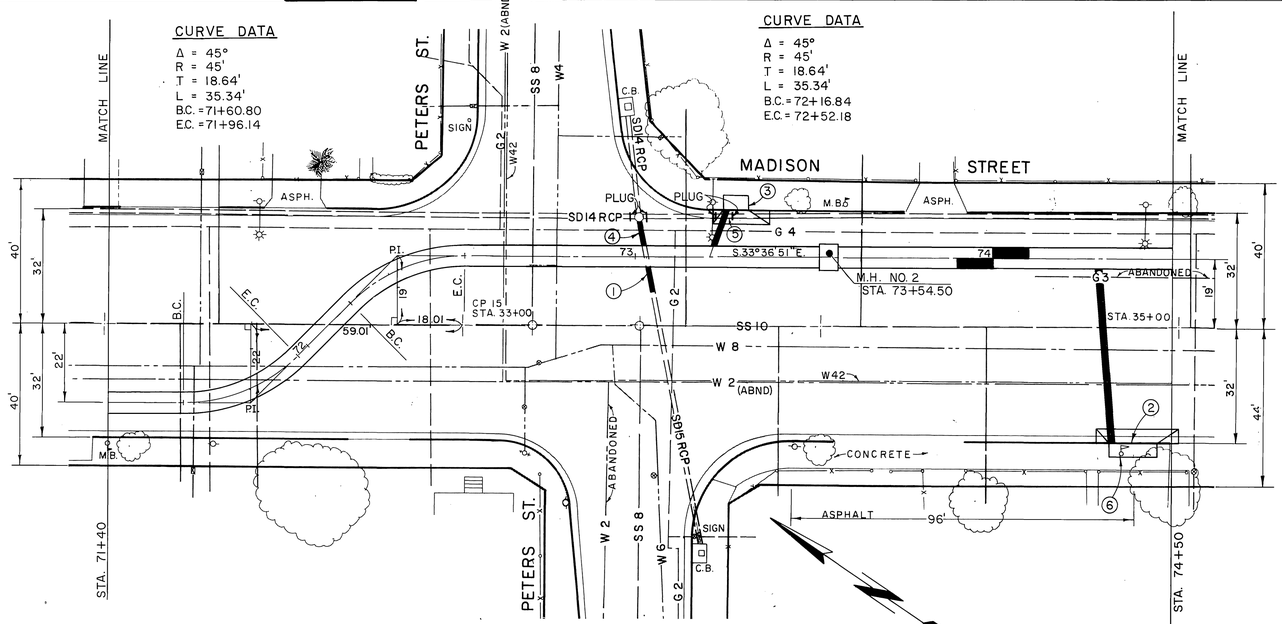
MONROE S.D. - RAILROAD LATERAL

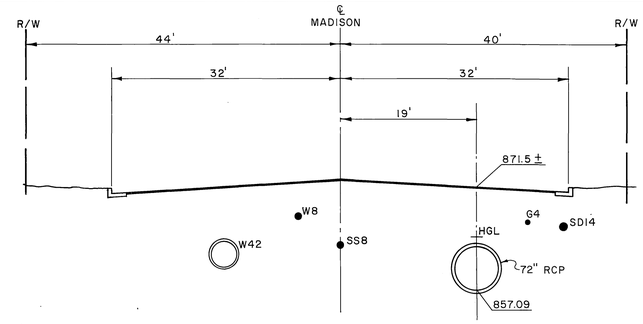
STA. 67+50 TO STA. 71+40

1970 STORM DRAIN BOND ISSUE PROJECT NO. 16

18







1. CONNECT SD 15 TO MAINLINE. 10'-18" RCP CL. IV. FOR CONNECTOR PIPE PROFILE SEE SHEET 34.
2. C.B. NO. 1, V=4', W=14', 50'-18" RCP CL. IV. SEE CONNECTOR PIPE PROFILE THIS SHEET.
3. C.B. NO. 1, V=4', W=7', 14'-18" RCP CL. IV. SEE CONNECTOR PIPE PROFILE THIS SHEET.
4. CONNECT M.H. TO MAINLINE. 10'-18" RCP CL. IV. FOR CONNECTOR PIPE PROFILE SEE SHEET 34.
5. REMOVE INTERFERING PORTIONS SD14, PLUG ENDS.
6. RELOCATE MAILBOX AS DIRECTED BY ENGINEER.

INDEXED 9-3-87 4th

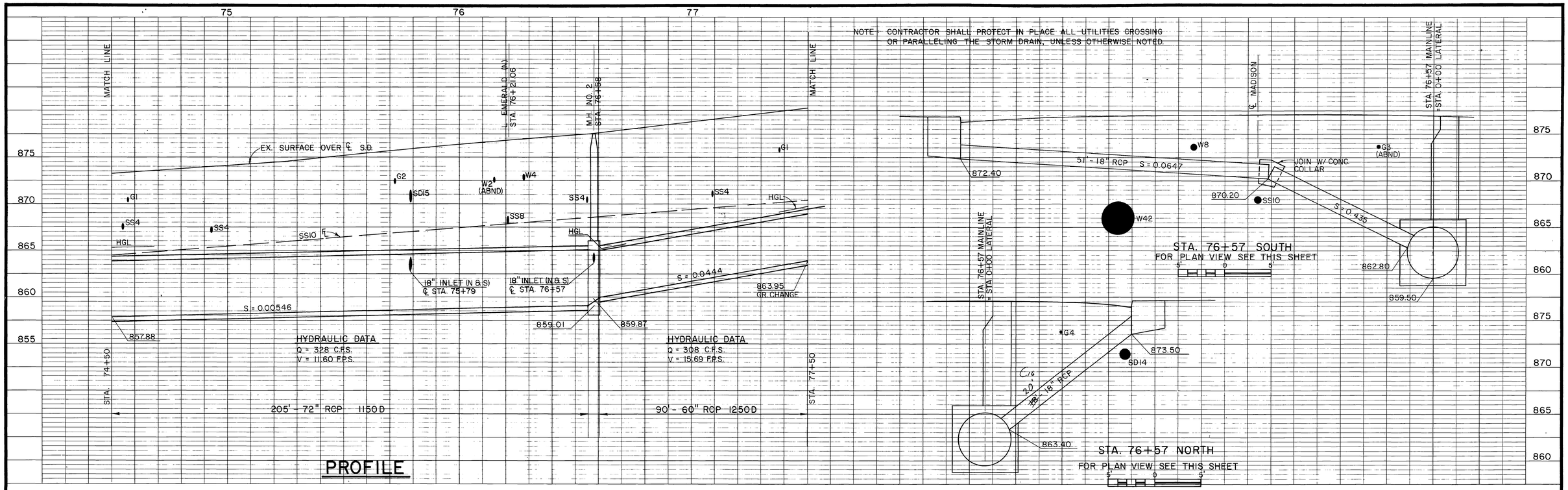
D-527

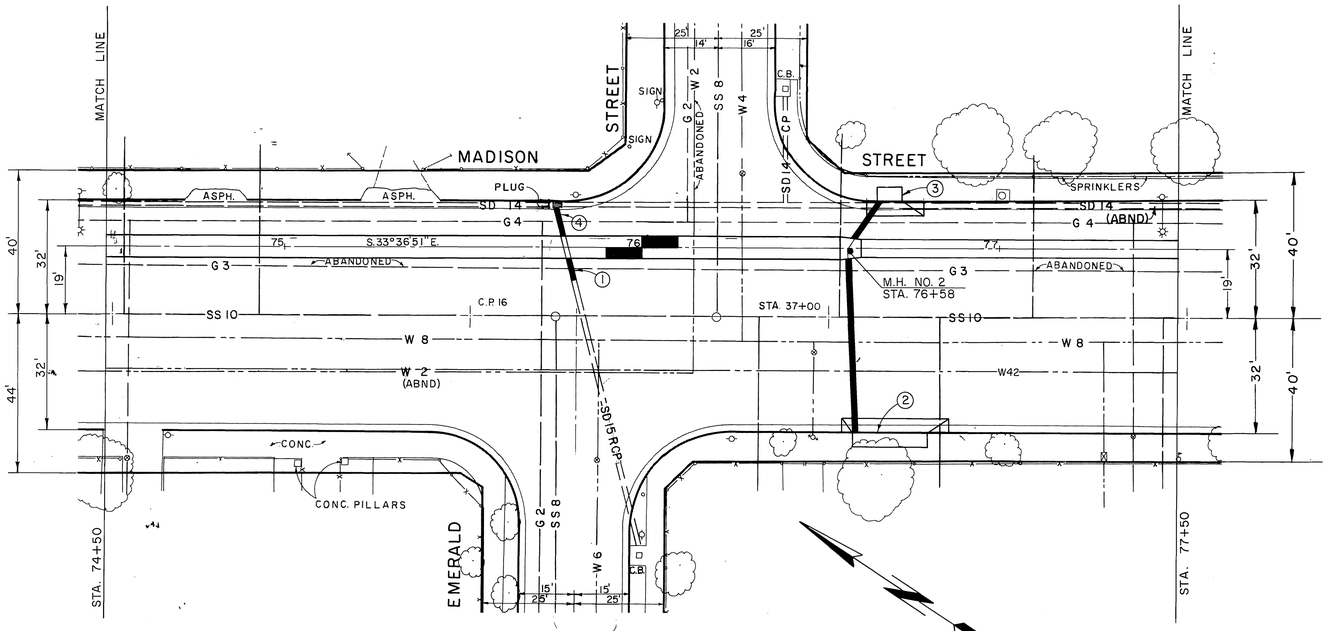
BENCH MARK SET CUT "X" TOP FIRE HYD. NW'LY COR. INT. OF MADISON AND PETERS TBM 15 - EL. 871.938.	REVISIONS No Change REF. DESCRIPTION APPR. DATE	RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT DESIGNED BY: J.R.C. DRAWN BY: D.L.P. DATE DRAWN: 6-82 CHECKED BY: A.G.	APPROVED BY: Kenneth L. Edwards CHIEF ENGINEER R.E. NO. 12400 DATE: 7-18-83
SCALE:			
DATE:			

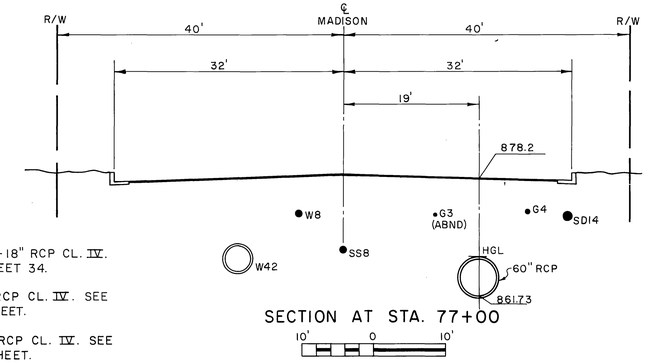
MONROE S.D. - RAILROAD LATERAL
STA. 71+40 TO STA. 74+50
1970 STORM DRAIN BOND ISSUE PROJECT NO. 16

PROJECT NO. 1-0-072
DRAWING NO. 1-385
SHEET NO. 20 OF 69

AS BUILT







① CONNECT SD15 TO MAINLINE. 12'-18" RCP CL. IV. SEE CONNECTOR PIPE PROFILE SHEET 34.

② C.B. NO. 1, W=21, V=4.6'. 51'-18" RCP CL. IV. SEE CONNECTOR PIPE PROFILE THIS SHEET.

③ C.B. NO. 1, W=7', V=3.5'. 18'-18" RCP CL. IV. SEE CONNECTOR PIPE PROFILE THIS SHEET.

④ CONNECT EXISTING C.B. TO MAINLINE. 12'-18" RCP CL. IV. SEE CONNECTOR PIPE PROFILE SHEET 34.

INDEXED 9-3-87 LH

D-527

BENCH MARK
SET CUT "X" TOP FIRE HYD. SW'LY COR. INT. OF EMERALD AND MADISON
TBM 16 - EL. 879.203.

SCALE:

DATE:

REVISIONS			
C16	Length of 18" RCP increased 2'	JDS	2/13/85
REF.	DESCRIPTION	APPR.	DATE

AS BUILT

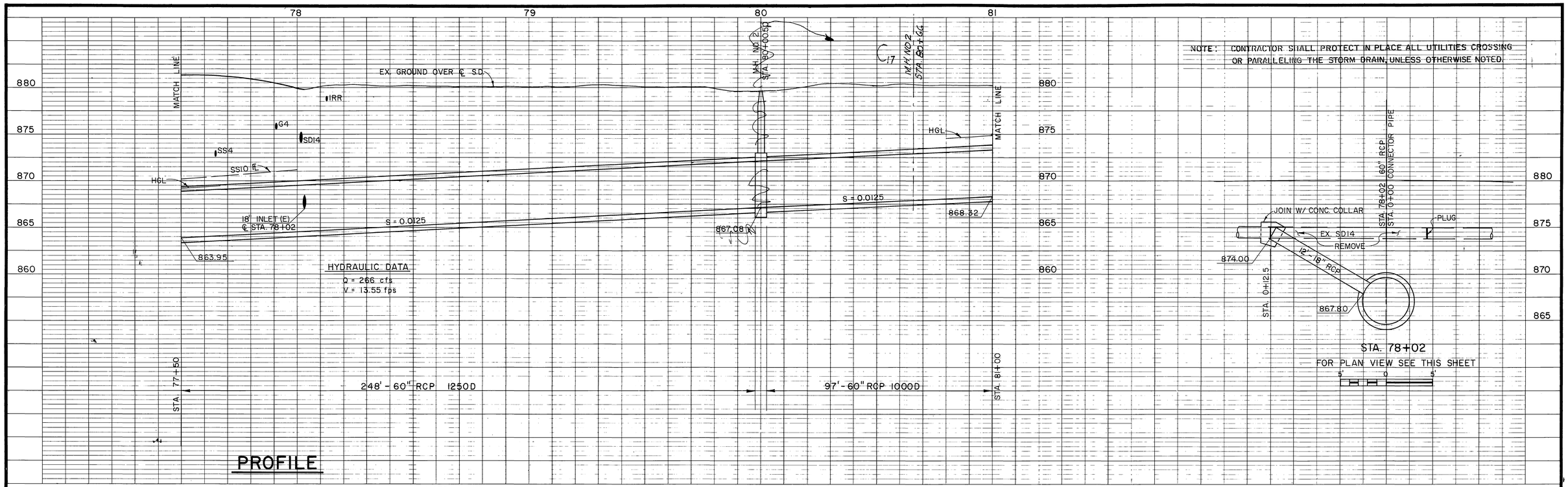
RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: J.R.C.
DRAWN BY: D.L.P.
DATE DRAWN: 6-82
CHECKED BY: A.G.R.

APPROVED BY: Kenneth L. Edwards
CHIEF ENGINEER R.E. NO. 12400
DATE: 7-18-83

MONROE S.D. - RAILROAD LATERAL
STA. 74+50 TO STA. 77+50
1970 STORM DRAIN BOND ISSUE PROJECT NO. 16

PROJECT NO. 1-0-072
DRAWING NO. 1-385
SHEET NO. 21 OF 69



① CONNECT SD 14 TO MAINLINE. 12'-18" RCP CL. IV. SEE CONNECTOR PIPE PROFILE THIS SHEET.

② REMOVE BASKETBALL COURT, GRADE AREA LEVEL WITH ADJACENT AREA.

③ PROTECT TREES IN PLACE.

④ REPLACE GRASS.

⑤ REMOVE INTERFERING PORTIONS CONC. AND ASPHALT WALK AND REPLACE IN KIND.

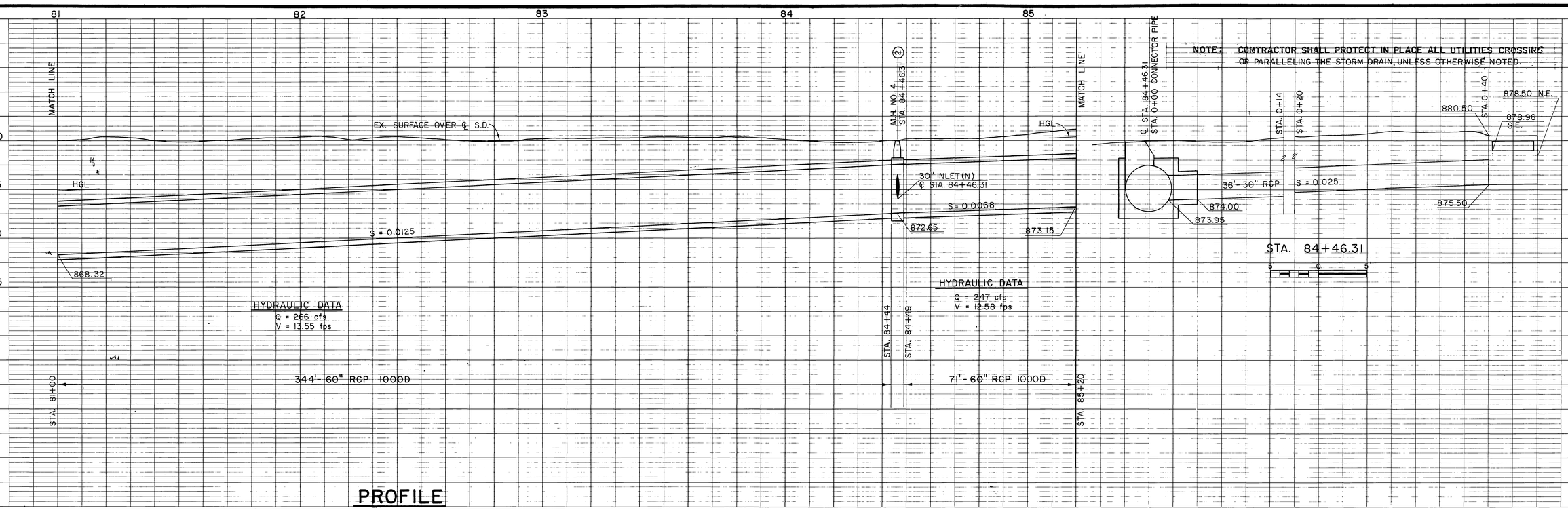
⑥ SEE SPECIFICATIONS CONCERNING SEEDING & IRR. SYSTEM.

INDEXED 9-3-87 LH

D-527

BENCH MARK	REVISIONS				RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT		MONROE S.D. - RAILROAD LATERAL	PROJECT NO. 1-0-072
SCALE:					DESIGNED BY: J.R.C.	APPROVED BY: Kenneth J. Edwards	STA. 77+50 TO STA. 81+00	DRAWING NO. 1-385
DATE:	C17	M.H. No. 2 Moved to Sta. 80+66			DRAWN BY: D.L.P.	CHIEF ENGINEER R.E. NO. 12400	1970 STORM DRAIN BOND ISSUE PROJECT NO. 16	SHEET NO. 22 OF 69
	REF.	DESCRIPTION	APPR.	DATE	DATE DRAWN: 6-82	DATE: 9-18-83		
					CHECKED BY: A.G.K.			

AS BUILT



PROFILE

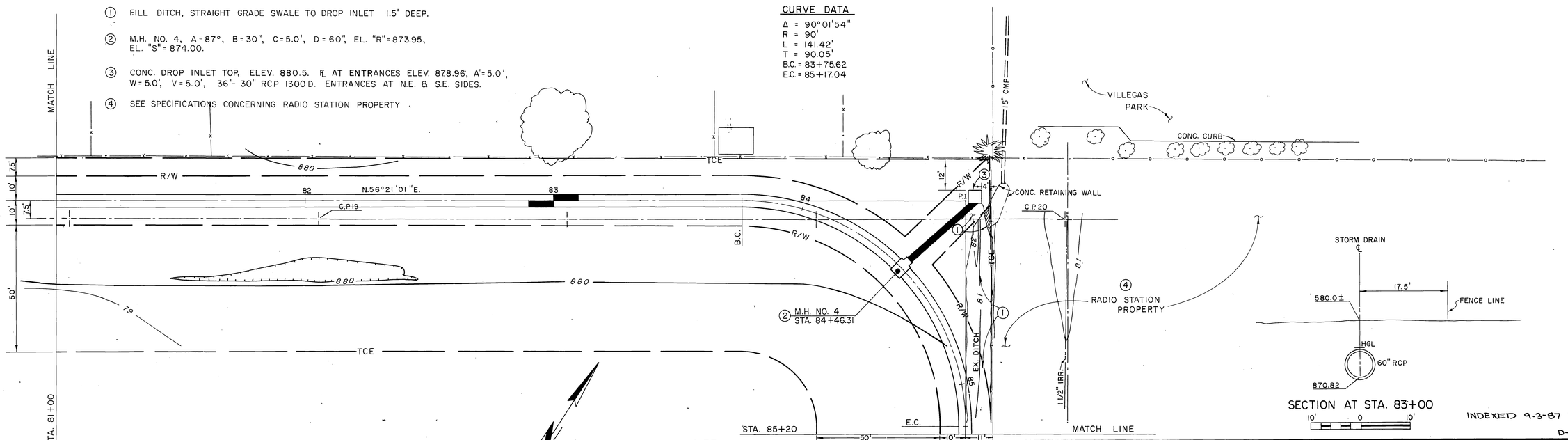
① FILL DITCH, STRAIGHT GRADE SWALE TO DROP INLET 1.5' DEEP.

② M.H. NO. 4, A = 87°, B = 30", C = 5.0', D = 60", EL. "R" = 873.95, EL. "S" = 874.00.

③ CONC. DROP INLET TOP, ELEV. 880.5. ℄ AT ENTRANCES ELEV. 878.96, A' = 5.0', W = 5.0', V = 5.0', 36'-30" RCP 1300 D. ENTRANCES AT N.E. & S.E. SIDES.

④ SEE SPECIFICATIONS CONCERNING RADIO STATION PROPERTY.

CURVE DATA
Δ = 90°01'54"
R = 90'
L = 141.42'
T = 90.05'
B.C. = 83+75.62
E.C. = 85+17.04



PLAN

1" = 20'

INDEXED 9-3-87 LH

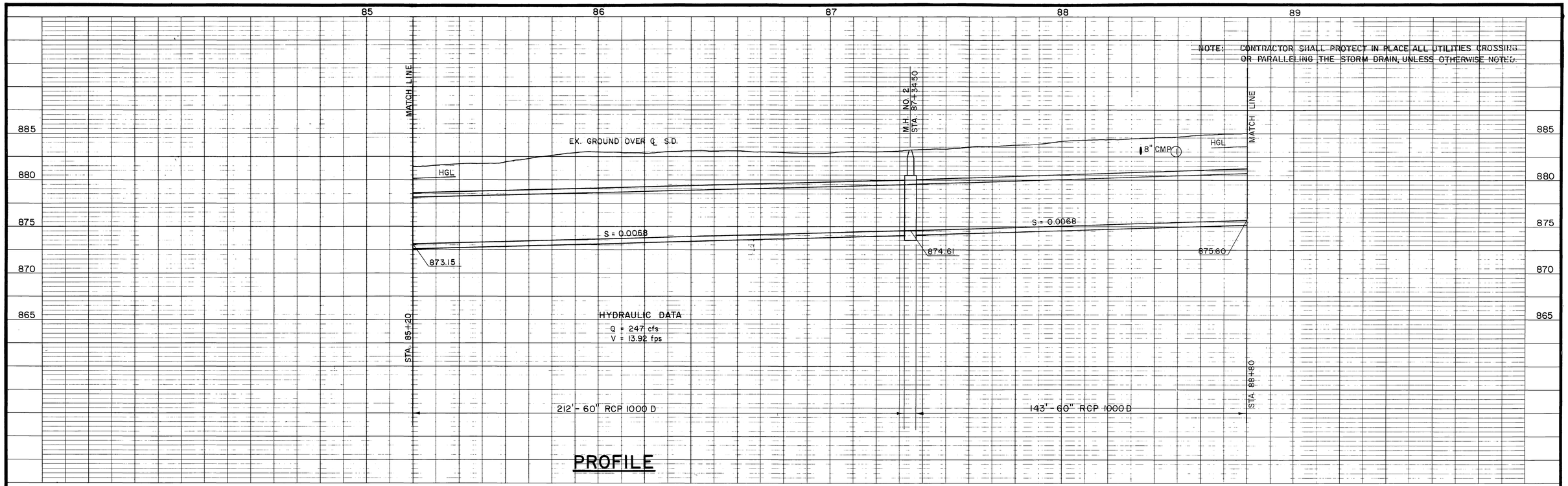
D-527

BENCH MARK	REVISIONS	RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT		PROJECT NO.
T.B.M. 17, FD. PK NAIL CENTER M.O.C. OF EAST CURB AT LINCOLN & SONORA. EL. = 889.477		DESIGNED BY: J.R.C.	APPROVED BY: Kenneth P. Edwards	1-0-072
SCALE:	No Change	DRAWN BY: D.L.P.	CHIEF ENGINEER R.E. NO. 12400	DRAWING NO. 1-385
DATE:	REF. DESCRIPTION APPR. DATE	DATE DRAWN: 6-82	DATE: 7-18-83	SHEET NO. 23 OF 69
		CHECKED BY: A.G.K.		

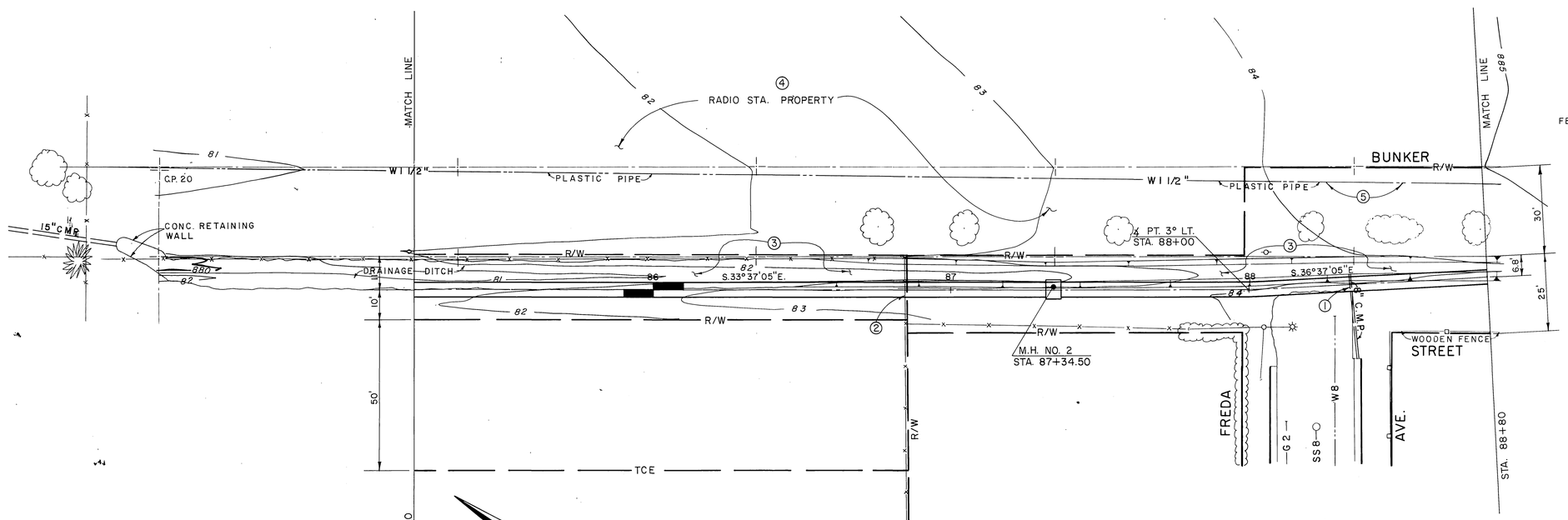
MONROE S.D. - RAILROAD LATERAL
STA. 81+00 TO STA. 85+20
1970 STORM DRAIN BOND ISSUE PROJECT NO. 16

AS BUILT

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



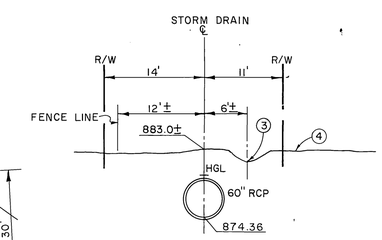
PROFILE



PLAN

1" = 20'

20' 0 20'



SECTION AT STA. 87+00

10' 0 10'

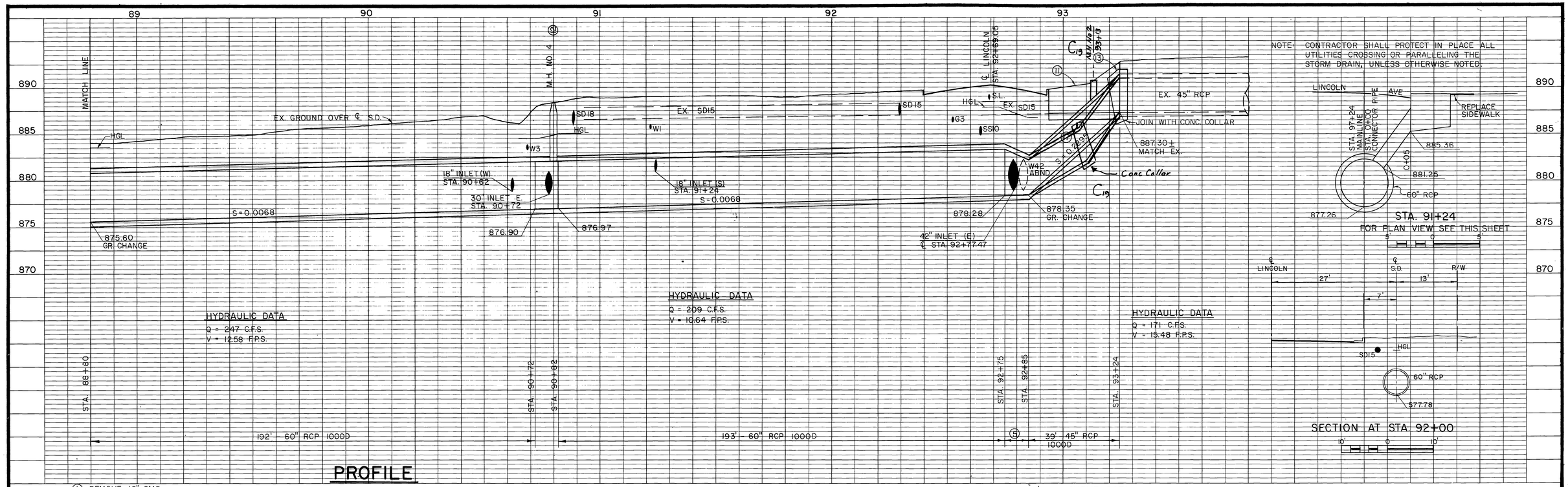
1. REMOVE & REPLACE INTERFERING PORTIONS 8" CMP.
2. REMOVE & REPLACE FENCE.
3. FILL DITCH, STRAIGHT GRADE 1' SWALE TO DROP INLET 1.5' DEEP.
4. SEE SPECIFICATIONS CONCERNING RADIO STATION PROPERTY.
5. PROTECT W1 1/2 IN PLACE.

INDEXED 9-3-87 4th
D-527

BENCH MARK	REVISIONS				RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT		PROJECT NO. 1-0-072
SCALE:					DESIGNED BY: J.R.C.	APPROVED BY: Kenneth L. Edwards	DRAWING NO. 1-385
DATE:	No Change				DRAWN BY: D.L.P.	CHIEF ENGINEER R.E. NO. 12400	SHEET NO. 24 OF 69
	REF.	DESCRIPTION	APPR.	DATE	DATE DRAWN: 7-82	DATE: 7-18-83	
					CHECKED BY: A.G.K.		

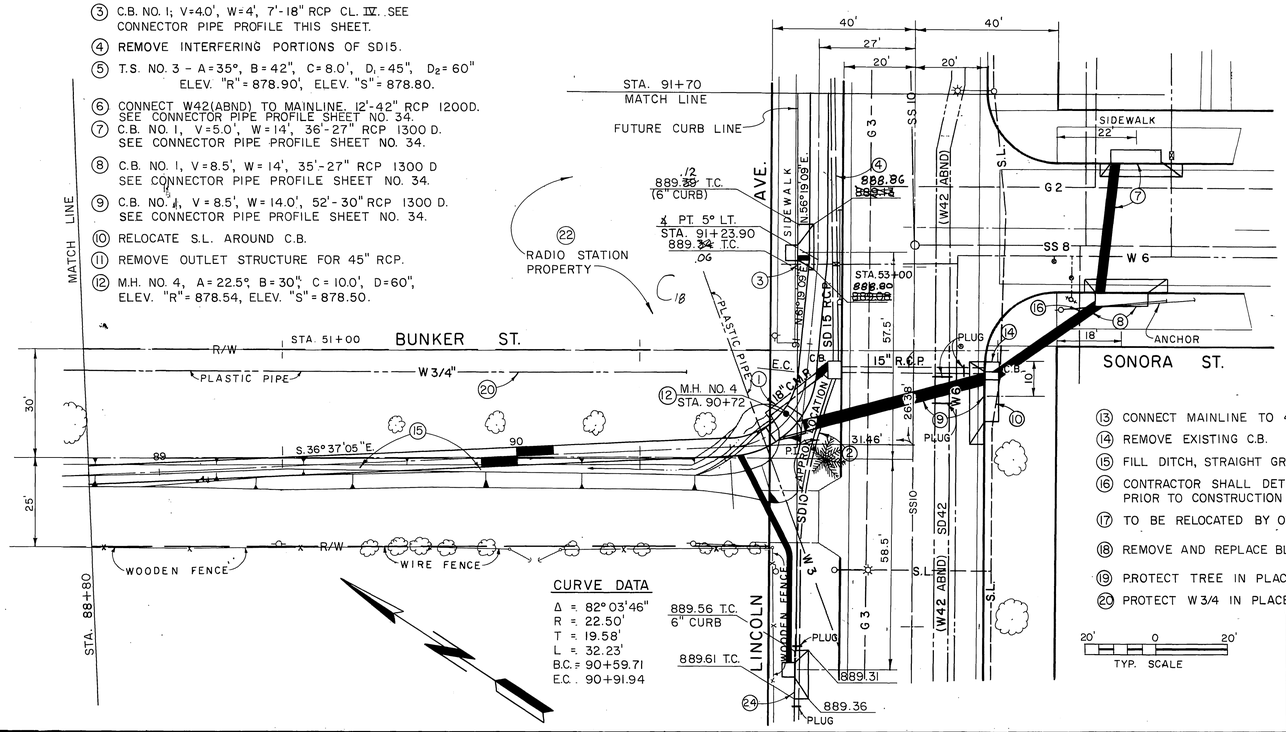
MONROE S.D. - RAILROAD LATERAL
STA. 85+20 TO STA. 88+80
1970 STORM DRAIN BOND ISSUE PROJECT NO. 16

AS BUILT



PROFILE

1. REMOVE 18" CMP.
2. REMOVE INTERFERING SD10. PLUG ENDS.
3. C.B. NO. 1; V=4.0', W=4', 7'-18" RCP CL. IV. SEE CONNECTOR PIPE PROFILE THIS SHEET.
4. REMOVE INTERFERING PORTIONS OF SD15.
5. T.S. NO. 3 - A=35°, B=42", C=8.0', D_1=45", D_2=60" ELEV. "R"=878.90', ELEV. "S"=878.80.
6. CONNECT W42(ABND) TO MAINLINE. 12'-42" RCP 1200D. SEE CONNECTOR PIPE PROFILE SHEET NO. 34.
7. C.B. NO. 1, V=5.0', W=14', 36'-27" RCP 1300 D. SEE CONNECTOR PIPE PROFILE SHEET NO. 34.
8. C.B. NO. 1, V=8.5', W=14', 35'-27" RCP 1300 D SEE CONNECTOR PIPE PROFILE SHEET NO. 34.
9. C.B. NO. 1, V=8.5', W=14.0', 52'-30" RCP 1300 D. SEE CONNECTOR PIPE PROFILE SHEET NO. 34.
10. RELOCATE S.L. AROUND C.B.
11. REMOVE OUTLET STRUCTURE FOR 45" RCP.
12. M.H. NO. 4, A=22.5°, B=30", C=10.0', D=60", ELEV. "R"=878.54, ELEV. "S"=878.50.



13. CONNECT MAINLINE TO 45" RCP.
14. REMOVE EXISTING C.B.
15. FILL DITCH, STRAIGHT GRADE 1.5' SWALE TO DROP INLET.
16. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF SS4 PRIOR TO CONSTRUCTION OF CONNECTOR PIPE.
17. TO BE RELOCATED BY OTHERS PRIOR TO CONSTRUCTION.
18. REMOVE AND REPLACE BLOCK WALL AND FENCE.
19. PROTECT TREE IN PLACE.
20. PROTECT W3/4 IN PLACE.

20' 0 20'
TYP. SCALE

CURVE DATA

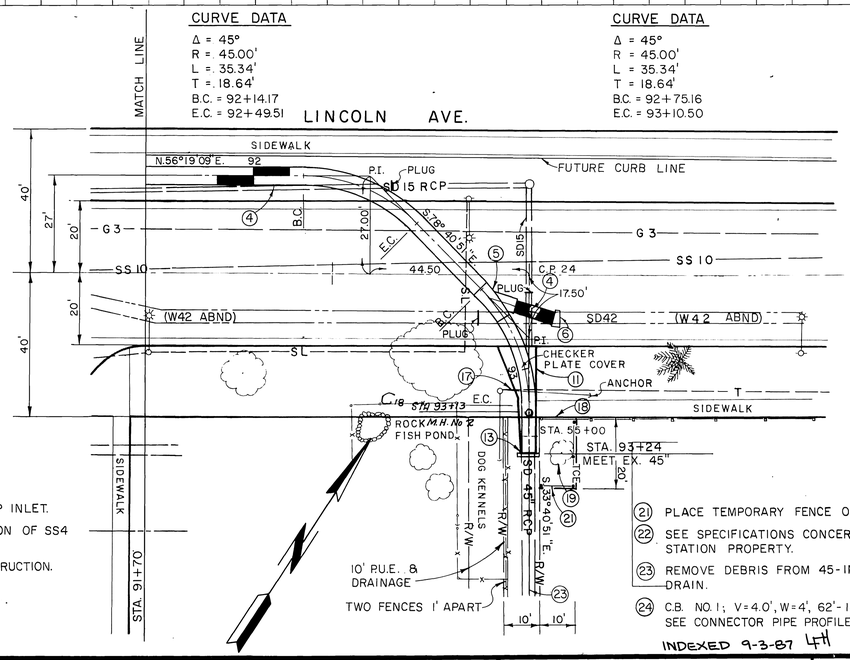
Δ = 82°03'46"
R = 22.50'
T = 19.58'
L = 32.23'
B.C. = 90+59.71
E.C. = 90+91.94

CURVE DATA

Δ = 45°
R = 45.00'
L = 35.34'
T = 18.64'
B.C. = 92+14.17
E.C. = 92+49.51

CURVE DATA

Δ = 45°
R = 45.00'
L = 35.34'
T = 18.64'
B.C. = 92+75.16
E.C. = 93+10.50



21. PLACE TEMPORARY FENCE ON TCE.
22. SEE SPECIFICATIONS CONCERNING RADIO STATION PROPERTY.
23. REMOVE DEBRIS FROM 45-INCH STORM DRAIN.
24. C.B. NO. 1; V=4.0', W=4', 62'-18" RCP, CL. IV. SEE CONNECTOR PIPE PROFILE SHEET 31.

INDEXED 9-3-87 LH

D-527

REVISIONS			
C19	Conc Collar & Profile Change	2/05	2/13/85
C18	M.H. No 2 Added Sta 93+13, Elev. Changes	2/05	2/13/85
REF.	DESCRIPTION	APPR.	DATE

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

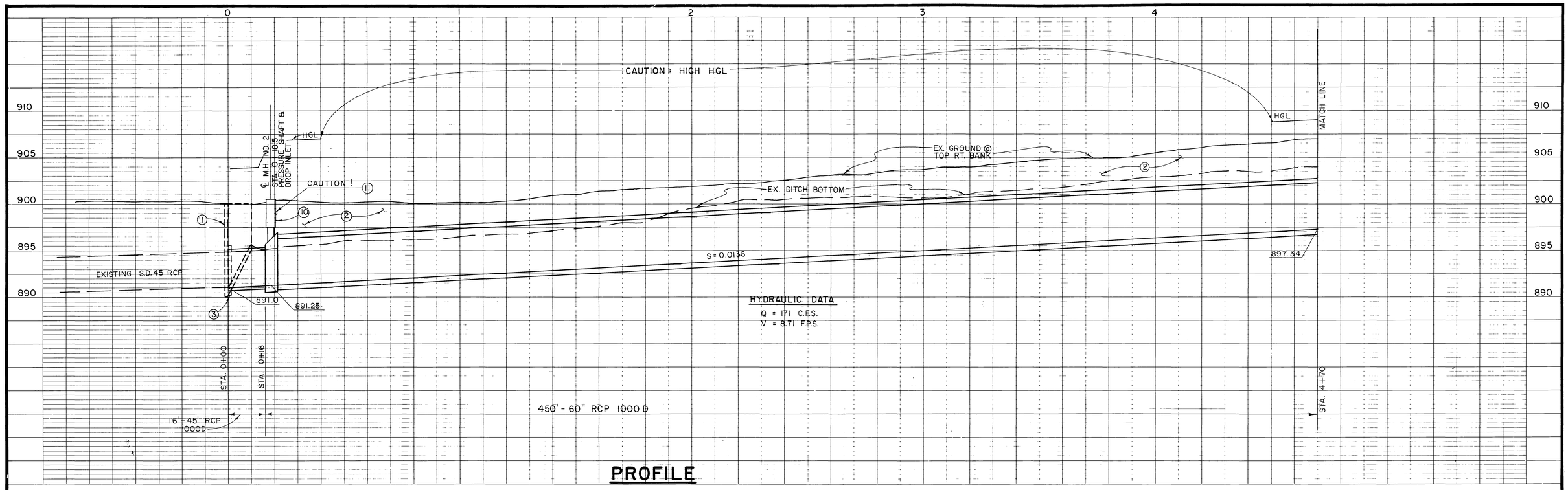
DESIGNED BY: J.R.C.
DRAWN BY: D.L.P.
DATE DRAWN: 7-82
CHECKED BY: A.G.K.

APPROVED BY: Kenneth L. Edwards
CHIEF ENGINEER R.E. NO. 12400
DATE: 7-18-83

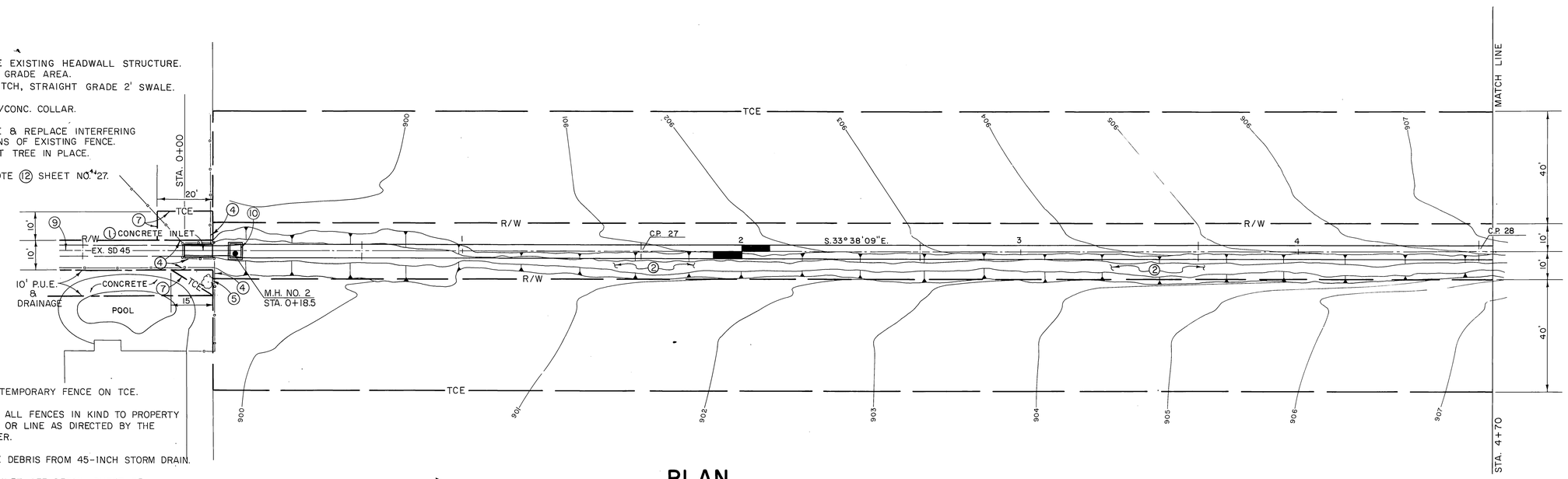
MONROE S.D. - RAILROAD LATERAL
STA. 88+80 TO STA. 93+24
1970 STORM DRAIN BOND ISSUE PROJECT NO. 16

PROJECT NO. 1-0-072
DRAWING NO. 1-385
SHEET NO. 25 OF 69

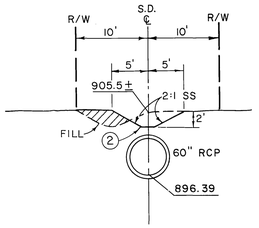
AS BUILT



PROFILE



PLAN



SECTION AT STA. 4+00

1. REMOVE EXISTING HEADWALL STRUCTURE. FILL & GRADE AREA.
2. FILL DITCH, STRAIGHT GRADE 2' SWALE.
3. JOIN W/CONC. COLLAR.
4. REMOVE & REPLACE INTERFERING PORTIONS OF EXISTING FENCE.
5. PROTECT TREE IN PLACE.
6. SEE NOTE 12 SHEET NO. 27.
7. PLACE TEMPORARY FENCE ON TCE.
8. EXTEND ALL FENCES IN KIND TO PROPERTY CORNER OR LINE AS DIRECTED BY THE ENGINEER.
9. REMOVE DEBRIS FROM 45-INCH STORM DRAIN.
10. DROP INLET SEE DETAIL SHEET 35.
11. DROP INLET IS TEMPORARY STRUCTURE. INLET SHALL BE REPLACED WITH PRESSURE SHAFT EXTENSION (MH 258) AND PRESSURE M.H. FRAME & COVER (MH 256) AT TIME ADJACENT PROPERTY IS DEVELOPED.

INDEXED 9-3-87 LH D-527

BENCH MARK
TBM 19 - FD. R.R. SPIKE AT VICTORIA AVE. NEAR BASE LINE. P.P. #2328J.

REVISIONS

REF.	DESCRIPTION	APPR.	DATE
	No Change		

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: J.R.C.
DRAWN BY: D.L.P.
DATE DRAWN: 8-82
CHECKED BY: A.G.K.

RECOMMENDED FOR APPROVAL BY: Neal L. Smithhamm, DESIGN ENGINEER R.E. NO. 16757, DATE: 18 July 83

APPROVED BY: Kenneth L. Edwards, CHIEF ENGINEER R.E. NO. 12400, DATE: 7-18-83

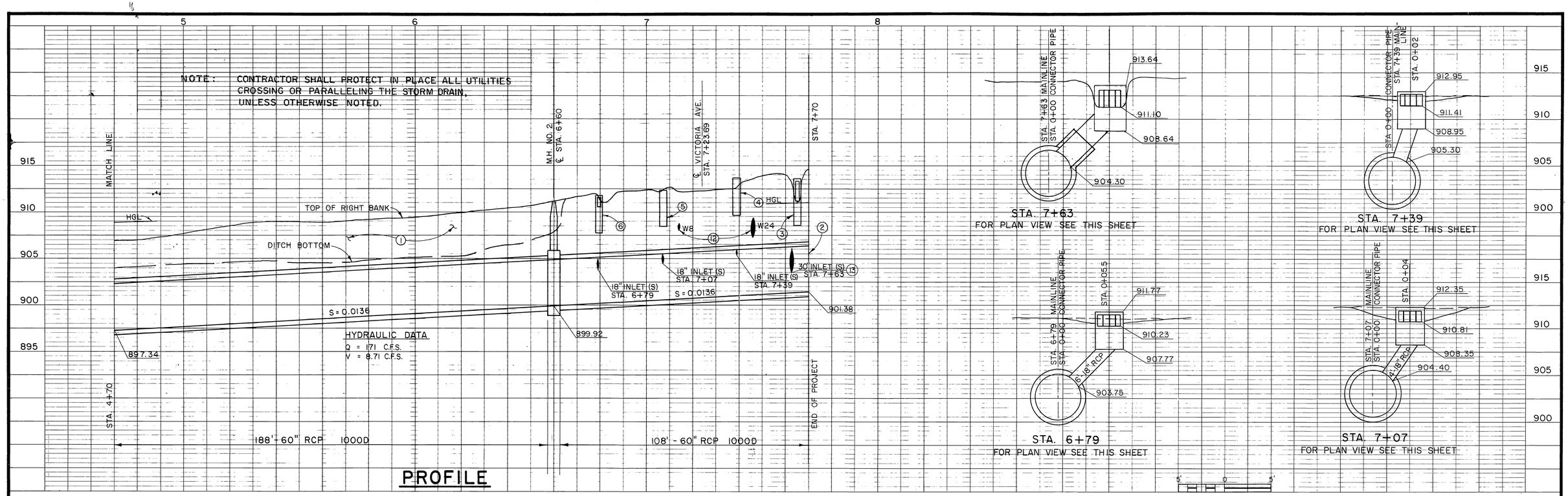
MONROE S.D.
RAILROAD LATERAL

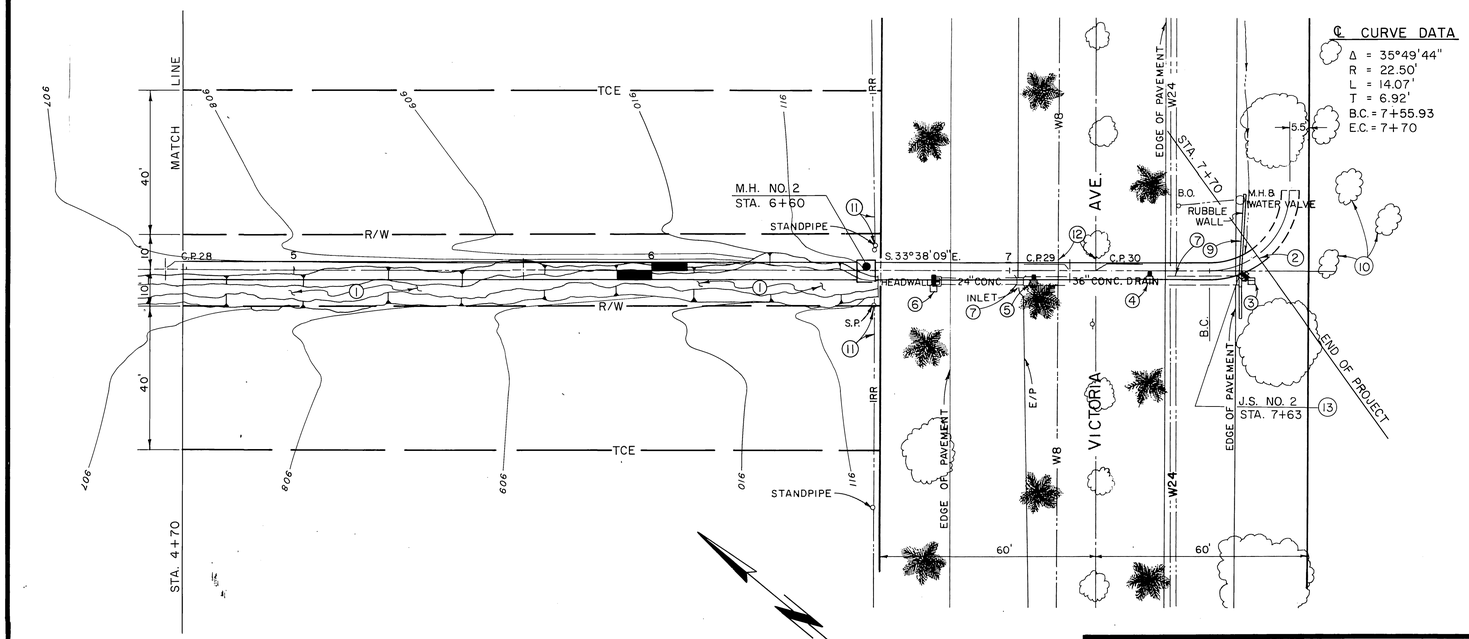
1970 STORM DRAIN BOND ISSUE PROJECT NO. 16

PROJECT NO. 1-0-072
DRAWING NO. 1-385
SHEET NO. 26 OF 69

AS BUILT

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



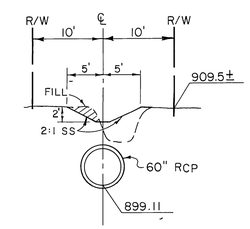


PLAN

1" = 20'

20' 0 20'

1. FILL DITCH, STRAIGHT GRADE 2' SWALE.
2. PLACE CONC. BULKHEAD.
3. DROP INLET WITH 2 SIDE OPENINGS 24" HIGH EA. (N.E. & S.W.) V = 5.0', W = 3'-8", 4'-30" RCP, 1000D. SEE CONNECTOR PIPE PROFILE THIS SHEET.
4. DROP INLET WITH 2 SIDE OPENINGS (~~N.W.~~ NE/SW & S.E.) V = 4.0', W = 36", 4'-18" RCP CL. IV. SEE CONNECTOR PIPE PROFILE THIS SHEET.
5. DROP INLET WITH 2 SIDE OPENINGS (~~N.W.~~ NE/SW & S.E.) V = 4.0', W = 36", 4'-18" RCP CL. IV. SEE CONNECTOR PIPE PROFILE THIS SHEET.
6. DROP INLET WITH 2 SIDE OPENINGS (N.E. & S.W.) V = 4.0', W = 36", 6'-18" RCP CL. IV. SEE CONNECTOR PIPE PROFILE THIS SHEET.
7. REMOVE S.D., HEADWALL & INLETS.
8. PLACE ℄ EACH DROP INLET @ 4.5' FROM E.P.
9. REMOVE & REPLACE INTERFERING PORTIONS OF RUBBLE WALL.
10. PROTECT ORANGE TREES IN PLACE.
11. PROTECT STANDPIPES & IRR. IN PLACE
12. CONTRACTOR TO DETERMINE EXACT ELEVATION OF W8 & W24 PRIOR TO CONSTRUCTION PAST STA. 0+20.
13. J.S. NO. 2, A = 60°, B = 30", C = 5.4', D = 60", E = 3.7', F = 1.3', G = 2.5', L = 4.0', EL. "R" = 905.90, EL. "S" = 904.30.



SECTION AT STA. 6+00

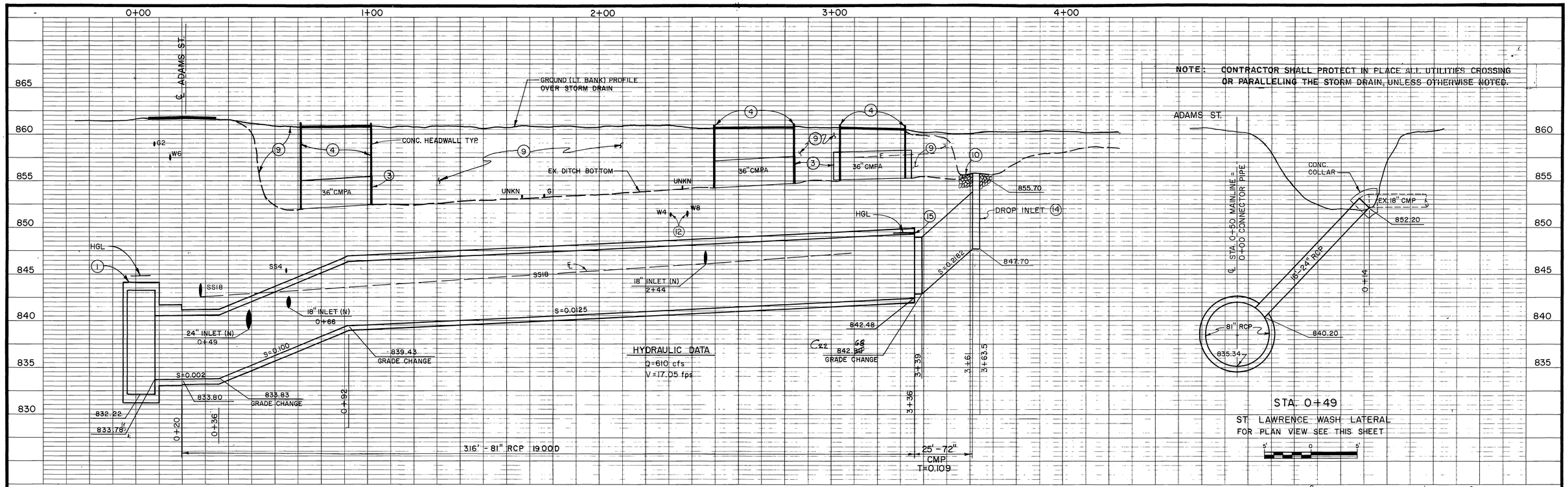
10' 0 10'

INDEXED 9-3-87 LH

D-527

BENCH MARK	REVISIONS				RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT		MONROE S.D. - RAILROAD LATERAL	PROJECT NO. 1-0-072
T.B.M. 19 - FD. R.R. SPIKE AT VICTORIA AVE. NEAR BASE LINE. P.P. #2328J.					DESIGNED BY: J.R.C.	APPROVED BY: Kenneth A. Edwards CHIEF ENGINEER R.E. NO. 12400		DRAWING NO. 1-385
SCALE:					DRAWN BY: D.L.P.			
					DATE DRAWN: 1-83		1970 STORM DRAIN BOND ISSUE PROJECT NO. 16	SHEET NO. 27 OF 69
DATE:	C20	Note 4 and 5 Changed As Shown	AS	2/13/85	CHECKED BY: A.G.	DATE: 7-18-83		
	REF.	DESCRIPTION	APPR.	DATE				

AS BUILT



The 81" R.C.P. was moved & a ∡ PT. was made at Sta 3+00 Because the Elec. Line was found to be 3' to 4' South of Plan location

1. J.S. NO. 1, SEE SHEET 4.
2. PROTECT POLE IN PLACE, ANCHOR RELOCATED BY OTHERS.
3. REMOVE 36" CMPA.
4. REMOVE HEADWALLS AROUND 36" CMP TO FIRST CURB JOINT.
5. CONNECT 10" CMP TO LATERAL. 16'-18" RCP CL IV, SEE CONNECTION PIPE PROFILE SHEET 33.
6. CONNECT 18" CMP TO LATERAL. 16'-24" RCP, CL IV, SEE CONNECTOR PIPE PROFILE THIS SHEET.
7. CONNECT 8" CMP TO LATERAL. 14'-18" RCP, CL IV, SEE CONNECTOR PIPE PROFILE SHEET 33.
8. RELOCATE ASPHALT DOWNSPOUT. REMOVE EX. & PATCH CURB.
9. FILL EX. DITCH.
10. 1/4 TON ROCK SLOPE PROTECTION (15 TONS) 18" DEEP.
11. 20'-6' CHAIN LINK FENCE W/4' GATE, SEE STD. DETAIL M801. RAISE 5' MESH 12" ABOVE CONCRETE.
12. CONTRACTOR TO DETERMINE EXACT LOCATION OF W4 & W8 PRIOR TO CONSTRUCTING LATERAL.
13. ~~CONSTRUCT SWALE FROM R.R. DITCH TO STA. 3+35. REPAVE DRIVES TO ACCOMMODATE SWALES.~~
14. FOR DROP INLET STRUCTURAL DETAILS, SEE SHEET 35.
15. CONSTRUCT CONCRETE COLLAR.

INDEXED 9-3-87 LFH D-527

BENCH MARK- P.K. NAIL & TIN LOCATED AT ADAMS ST. & SURVEY BASE LINE STA. 68+51.04± - EL. 855.601.

SCALE:

DATE:

REVISIONS			
C22	Change Note 11 & 13 Also Elev.	JBS	2/13/85
C21	Notes Added	JBS	2/13/85
REF.	DESCRIPTION	APPR.	DATE

AS BUILT

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

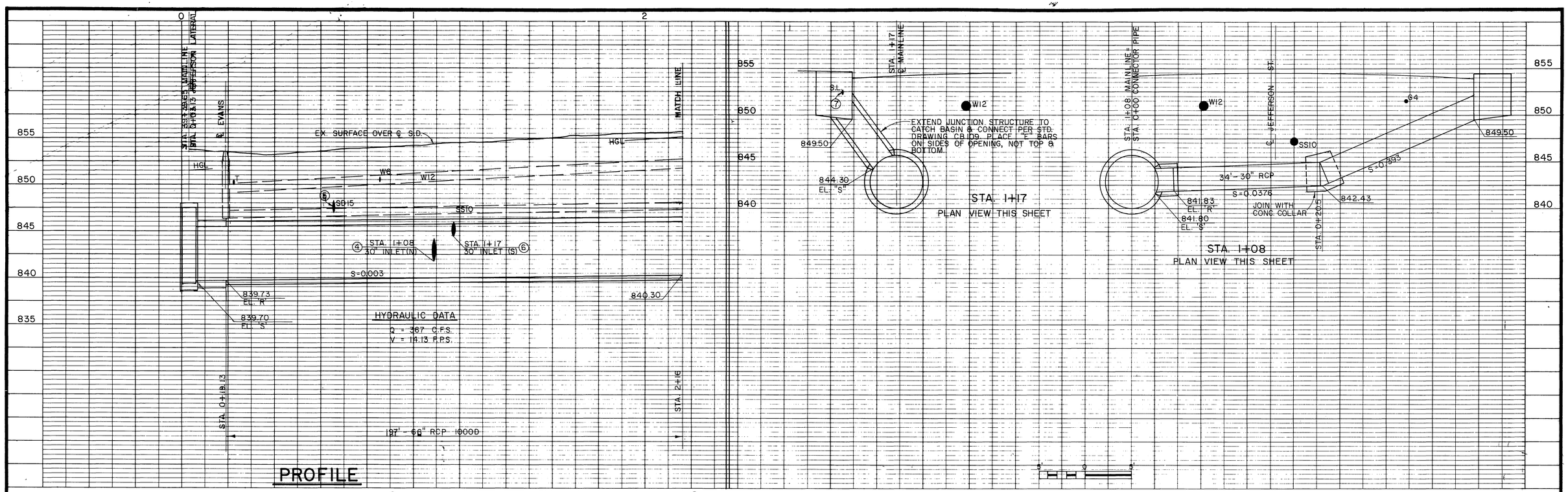
DESIGNED BY: J.R.C.
DRAWN BY: R.A.S.
DATE DRAWN: 6-82
CHECKED BY: A.G.K.

APPROVED BY: Kenneth J. Edwards
CHIEF ENGINEER R.E. NO. 12400
DATE: 7-18-83

ST. LAWRENCE WASH LATERAL

MONROE S.D. - RAILROAD LATERAL
STA. 0+00 TO STA. 3+68
1970 STORM DRAIN BOND ISSUE PROJECT NO. 16

PROJECT NO. 1-0-072
DRAWING NO. 1-385
SHEET NO. 28 OF 69



① REMOVE & REPLACE INTERFERING PORTIONS OF EX. CURB & GUTTER

② J.S. NO. 2, STA. 1+17, A=69°, B=30", C=8'-2", D=66", E=3', F=1", G=2'-6", L=4.2', EL. "S"=844.32

③ J.S. NO. 2, STA. 1+08, A=75°, B=30", C=5', D=66", E=2.7', F=2.75', G=2.5', L=4.1', EL. "R"=841.83, EL. "S"=841.80

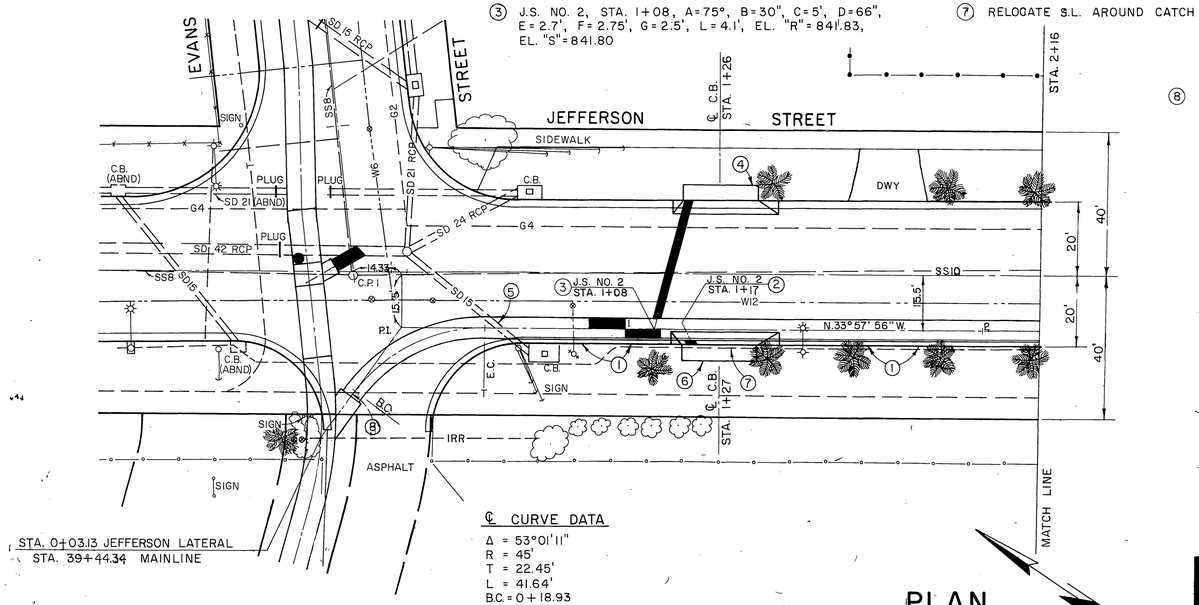
④ C.B. NO. 1, W=21', V=5', 34'-30" RCP 1300D.

⑤ REMOVE & REPLACE SD15.

⑥ C.B. NO. 1, W=21', V=5', 30" DIA. OPENING.

⑦ RELOCATE S.L. AROUND CATCH BASINS.

⑧ ℄ BEARING S.86°39'07"E.

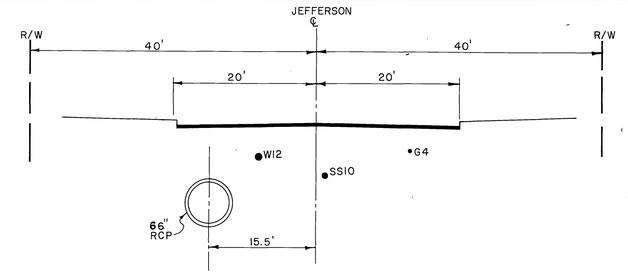


℄ CURVE DATA

Δ = 53°01'11"
R = 45'
T = 22.45'
L = 41.64'
B.C. = 0+18.93
E.C. = 0+60.57

PLAN

20' 0 20'



SECTION AT STA. 1+00

10' 0 10'

INDEXED 9-3-87 LH D-527

REVISIONS			
REF.	DESCRIPTION	APPR.	DATE
	No Change		

AS BUILT

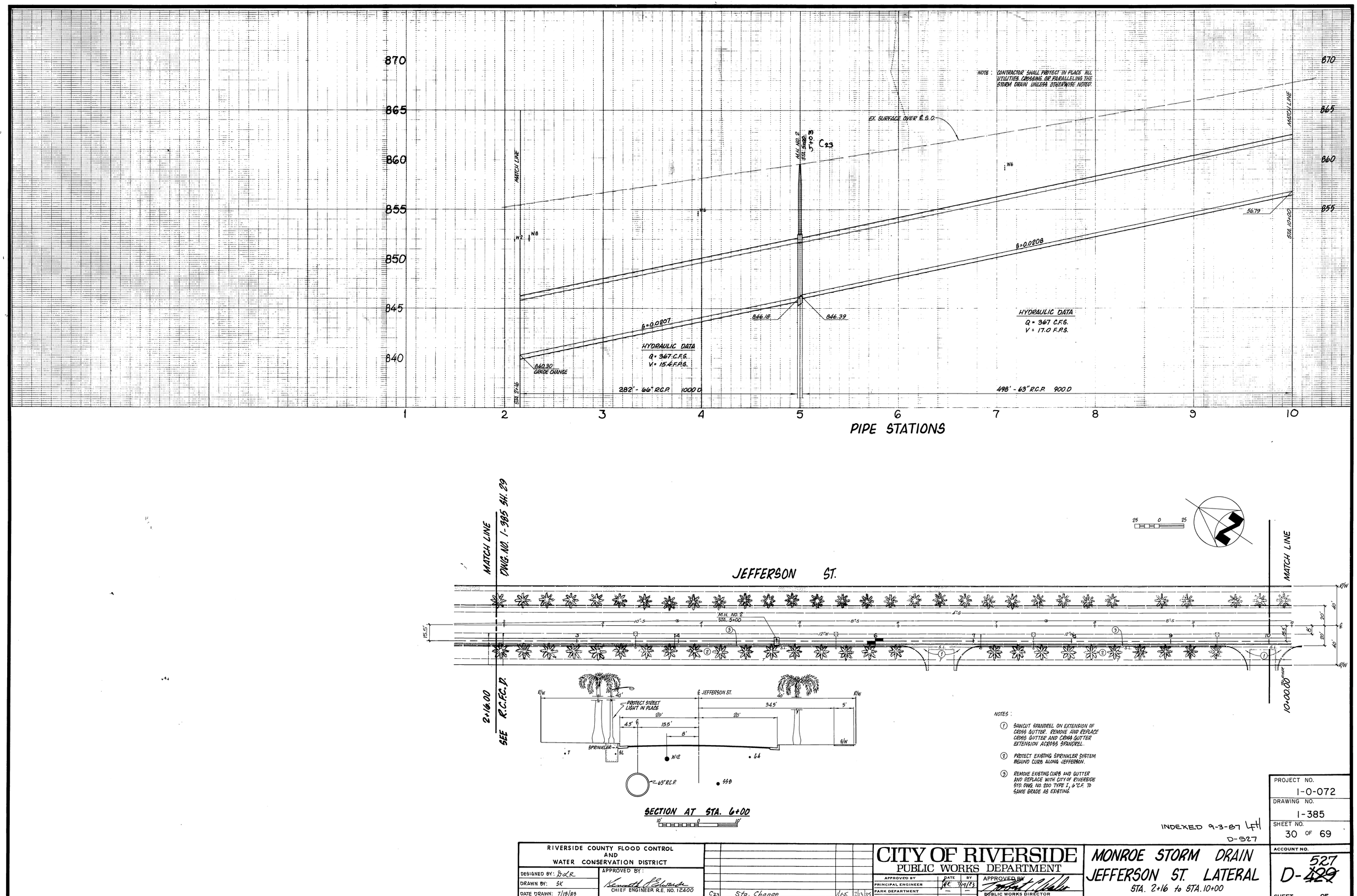
RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: C.J.
DRAWN BY: D.L.P.
DATE DRAWN: 8-82
CHECKED BY: A.G.K.

APPROVED BY: Kenneth L. Edwards
CHIEF ENGINEER R.E. NO. 12400
DATE: 9-18-83

MONROE STORM DRAIN
JEFFERSON ST. LATERAL
STA. 0+03.13 TO STA. 2+16
1970 STORM DRAIN BOND ISSUE PROJECT NO. 16

PROJECT NO. 1-0-072
DRAWING NO. 1-385
SHEET NO. 29 OF 69



NOTES:

1. SAWCUT SPANDREL ON EXTENSION OF CROSS GUTTER. REMOVE AND REPLACE CROSS GUTTER AND CROSS GUTTER EXTENSION ACROSS SPANDREL.
2. PROTECT EXISTING SPRINKLER SYSTEM BEHIND CURB ALONG JEFFERSON.
3. REMOVE EXISTING CURB AND GUTTER AND REPLACE WITH CITY OF RIVERSIDE STD. DWG. NO. 200 TYPE I, 6" C.F. TO SAME GRADE AS EXISTING.

INDEXED 9-3-87 LFH
D-527

PROJECT NO.	1-0-072
DRAWING NO.	1-385
SHEET NO.	30 OF 69
ACCOUNT NO.	D-~~429~~ 527
SHEET ___ OF ___	

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: DLR
DRAWN BY: SK
DATE DRAWN: 7/13/83
CHECKED BY: WLS

APPROVED BY: Kenneth P. Edwards
CHIEF ENGINEER R.E. NO. 12400
DATE: 7-18-83

MARK	REVISIONS	APPR.	DATE
C23	Sta. Change	SKS	2/13/85

DESIGNED BY DLR DRAWN BY SK CHECKED BY ___

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

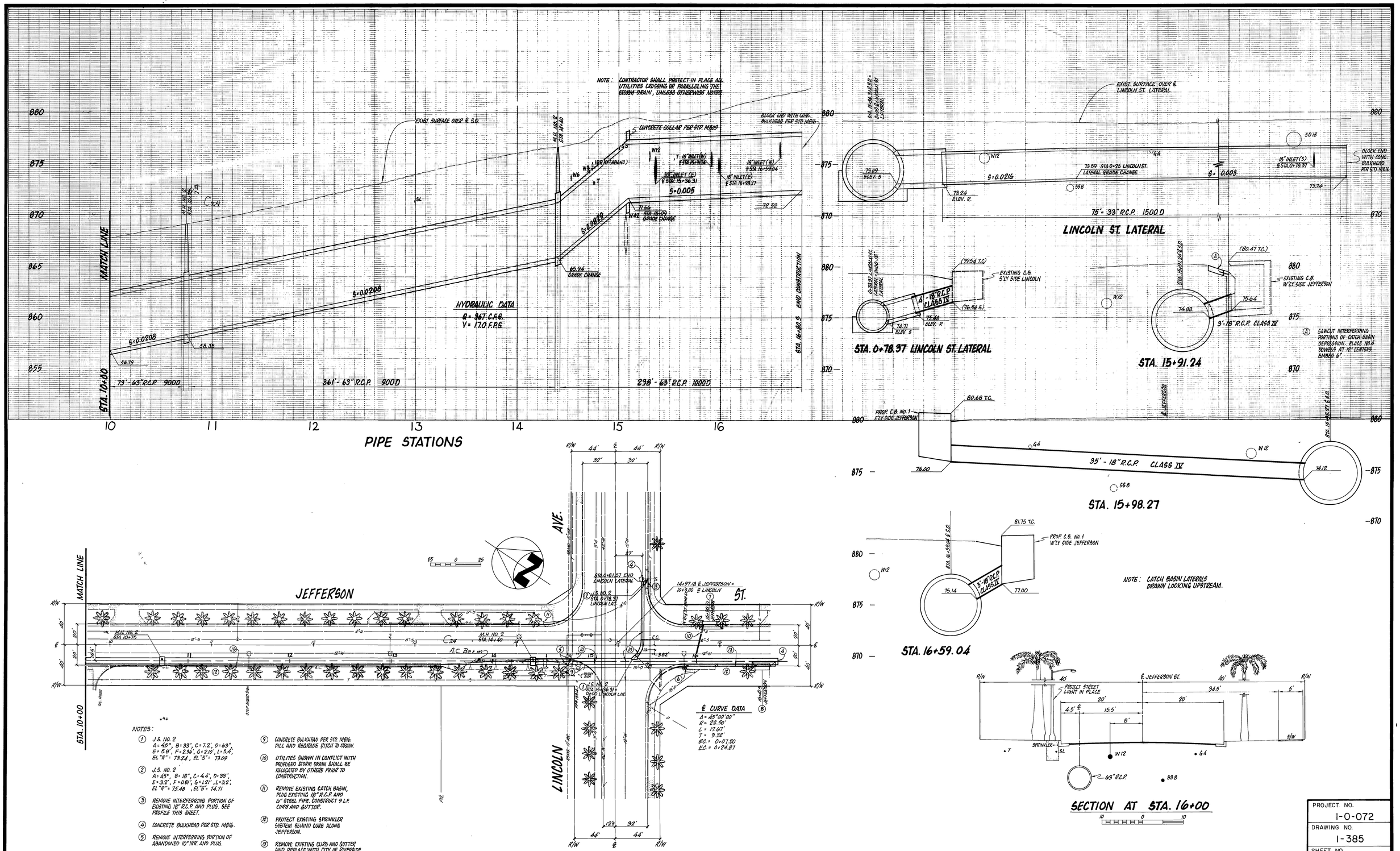
APPROVED BY	DATE	BY
PRINCIPAL ENGINEER	JK	7/19/83
PARK DEPARTMENT	—	—
TRAFFIC DIVISION		
CHIEF P. W. ENGINEER	[illegible]	7.14

APPROVED BY [signature]
PUBLIC WORKS DIRECTOR
DATE 7/14/83

MONROE STORM DRAIN
JEFFERSON ST. LATERAL
STA. 2+16 to STA. 10+00

HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 4'

AS BUILT



NOTES:

1. J.S. NO. 2
   A = 45°, B = 33", C = 7.2', D = 63", E = 5.8', F = 2.36', G = 2.10', L = 5.4', EL "R" = 73.24, EL "S" = 73.09
2. J.S. NO. 2
   A = 45°, B = 18", C = 4.4', D = 33", E = 3.2', F = 0.81', G = 1.21', L = 3.2', EL "R" = 75.48, EL "S" = 74.71
3. REMOVE INTERFERRING PORTION OF EXISTING 18" R.C.P. AND PLUG. SEE PROFILE THIS SHEET.
4. CONCRETE BULKHEAD PER STD. M816.
5. REMOVE INTERFERRING PORTION OF ABANDONED 10" IRR. AND PLUG.
6. PLUG EXISTING 15" OUTLET. INSTALL 18" R.C.P. TO NEW MAINLINE. SEE PROFILE THIS SHEET.
7. C.B. NO. 1
   V = 4.68', W = 14', 35'-18" R.C.P. CL. IV
   SEE PROFILE THIS SHEET.
8. C.B. NO. 1
   V = 4.75', W = 14', 3'-18" R.C.P. CL. IV
   SEE PROFILE THIS SHEET.
9. CONCRETE BULKHEAD PER STD. M816. FILL AND REGRADE DITCH TO DRAIN.
10. UTILITES SHOWN IN CONFLICT WITH PROPOSED STORM DRAIN SHALL BE RELOCATED BY OTHERS PRIOR TO CONSTRUCTION.
11. REMOVE EXISTING CATCH BASIN, PLUG EXISTING 18" R.C.P. AND 6" STEEL PIPE. CONSTRUCT 9 L.F. CURB AND GUTTER.
12. PROTECT EXISTING SPRINKLER SYSTEM BEHIND CURB ALONG JEFFERSON.
13. REMOVE EXISTING CURB AND GUTTER AND REPLACE WITH CITY OF RIVERSIDE STD. DWG. NO. 200 TYPE I, 6" C.F. TO SAME GRADE AS EXISTING.

INDEXED 9-3-87
4H
D-527

PROJECT NO.	1-0-072
DRAWING NO.	1-385
SHEET NO.	31 OF 69
ACCOUNT NO.	D-~~429~~ 527
SHEET ___ OF ___	

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: DLR
DRAWN BY: SK
DATE DRAWN: 7/13/83
CHECKED BY: [signature]

APPROVED BY: Kenneth L. Edwards
CHIEF ENGINEER R.E. NO. 12400
DATE: 7-18-83

MARK	REVISIONS	APPR.	DATE
C24	Change Sta & Add A.C. Berm	[signature]	8/13/85

DESIGNED BY DLR DRAWN BY SK CHECKED BY ___

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

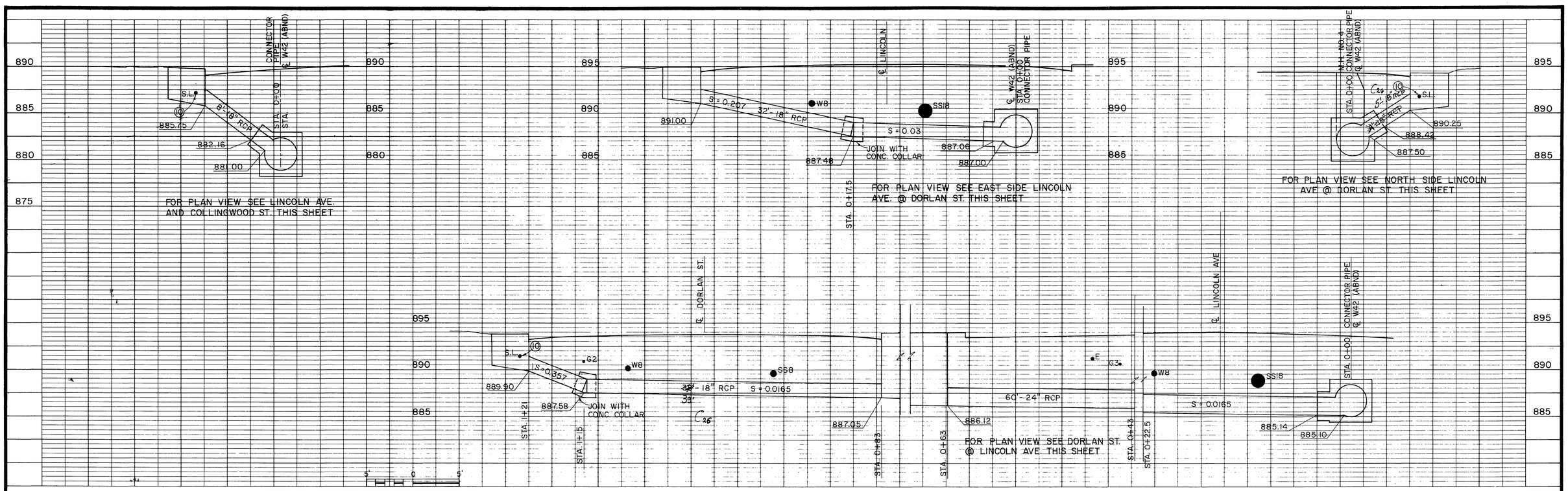
APPROVED BY	DATE	BY
PRINCIPAL ENGINEER	[signature]	7/14/83
PARK DEPARTMENT	—	—
TRAFFIC DIVISION		
CHIEF P. W. ENGINEER	[signature]	7-14

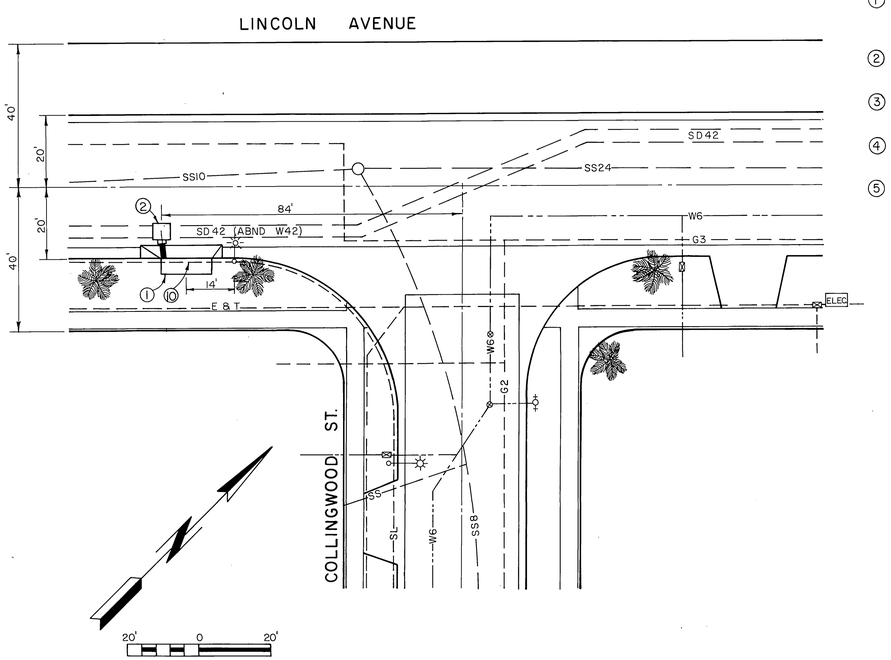
APPROVED BY [signature]
PUBLIC WORKS DIRECTOR
DATE 7/14/83

MONROE STORM DRAIN
JEFFERSON ST. LATERAL
STA. 10+00 to STA. 16+80.3

HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 4'

AS BUILT





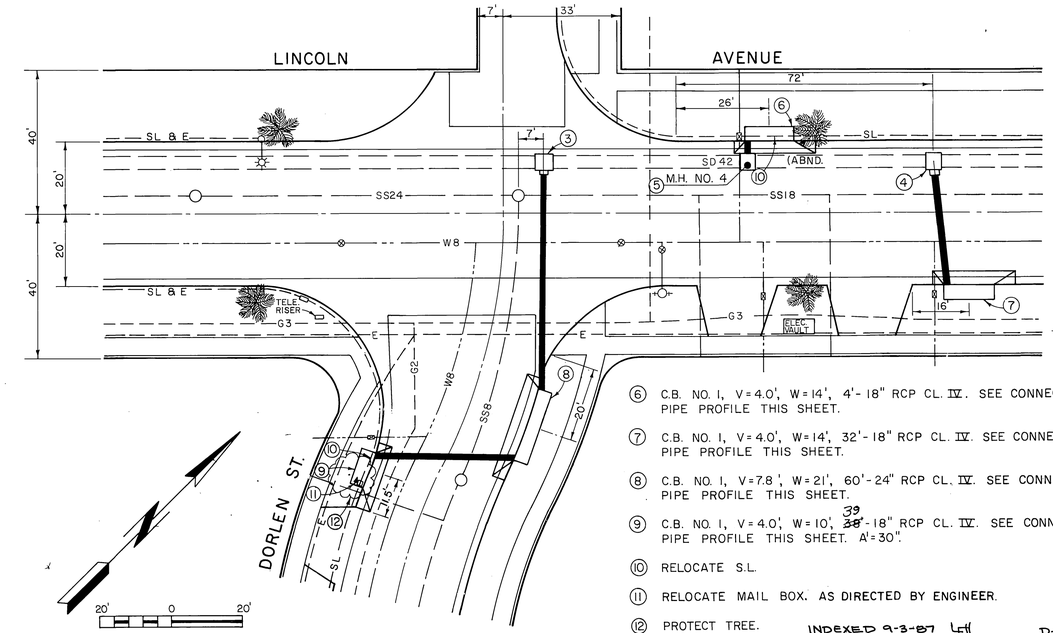
① C.B. NO. 1, V = 4.0', W = 14.0', 8'-18" RCP CL. IV. SEE CONNECTOR PIPE PROFILE THIS SHEET.

② T.S. NO. 3, A = 85°, B = 18", C = 3.5', D = 42", EL. 'R' = 882.16, EL. 'S' = 881.00.

③ T.S. NO. 3, A = 90°, B = 24", C = 3.7', D = 42", EL. 'R' = 885.14, EL. 'S' = 885.10.

④ T.S. NO. 3, A = 76°, B = 18", C = 3.7', D = 42", EL. 'R' = 887.06, EL. 'S' = 887.00.

⑤ M.H. NO. 4, A = 90°, B = 18", C = 3.8', D = 42", L = 4.3'.



⑥ C.B. NO. 1, V = 4.0', W = 14', 4'-18" RCP CL. IV. SEE CONNECTOR PIPE PROFILE THIS SHEET.

⑦ C.B. NO. 1, V = 4.0', W = 14', 32'-18" RCP CL. IV. SEE CONNECTOR PIPE PROFILE THIS SHEET.

⑧ C.B. NO. 1, V = 7.8', W = 21', 60'-24" RCP CL. IV. SEE CONNECTOR PIPE PROFILE THIS SHEET.

⑨ C.B. NO. 1, V = 4.0', W = 10', ~~28'~~ 39'-18" RCP CL. IV. SEE CONNECTOR PIPE PROFILE THIS SHEET. A' = 30".

⑩ RELOCATE S.L.

⑪ RELOCATE MAIL BOX. AS DIRECTED BY ENGINEER.

⑫ PROTECT TREE.

INDEXED 9-3-87 LH

D-527

REVISIONS			
C26	Change Length of Pipe & Note 9	RAS	2/13/85
REF.	DESCRIPTION	APPR.	DATE

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: J.R.C.
DRAWN BY: D.L.P.
DATE DRAWN: 9-82
CHECKED BY: A.G.K.

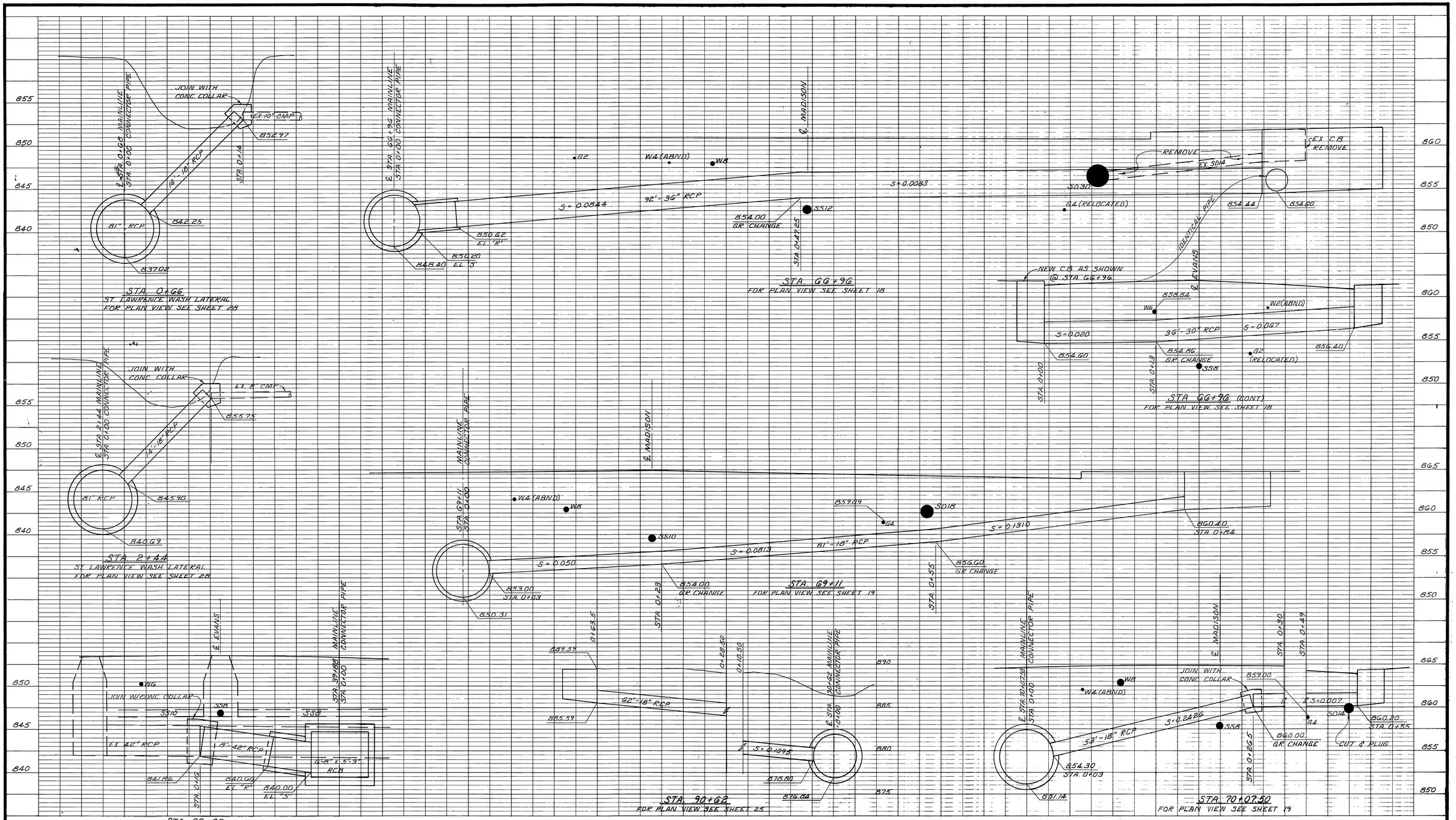
APPROVED BY: Kenneth J. Edwards
CHIEF ENGINEER R.E. NO. 12400
DATE: 9-18-83

MONROE STORM DRAIN RAILROAD LATERAL
CONNECTOR PIPE PROFILES

1970 STORM DRAIN BOND ISSUE PROJECT NO. 16

PROJECT NO. 1-0-072
DRAWING NO. 1-385
SHEET NO. 32 OF 69

AS BUILT



INDEXED 9-3-87 LH D-527

REVISIONS			
REF.	DESCRIPTION	APPR.	DATE
	No Change		

AS BUILT

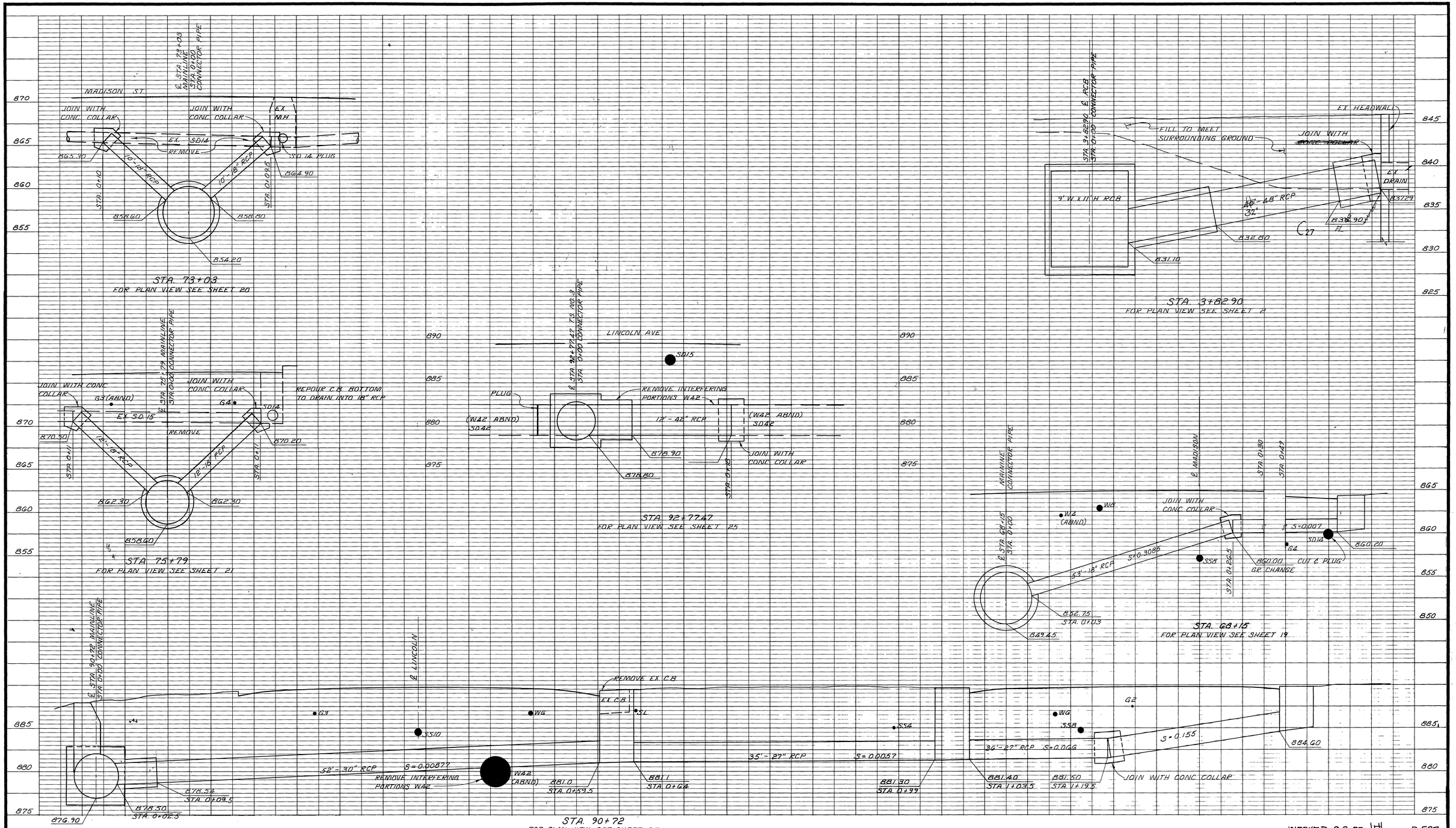
RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: J.R.C.
DRAWN BY: D.L.P.
DATE DRAWN: 1-83
CHECKED BY: A.G.K.

APPROVED BY: Kenneth L. Edwards
CHIEF ENGINEER R.E. NO. 12400
DATE: 7-18-83

MONROE S.D.
RAILROAD LATERAL
CONNECTOR PIPE PROFILES
1970 STORM DRAIN BOND ISSUE PROJECT NO. 16

PROJECT NO. 1-0-072
DRAWING NO. 1-385
SHEET NO. 33 OF 69



INDEXED 9-3-87 LH D-527

REVISIONS			
C27	Length & Elev. Change	AGK	2/13/85
REF.	DESCRIPTION	APPR.	DATE

AS BUILT

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

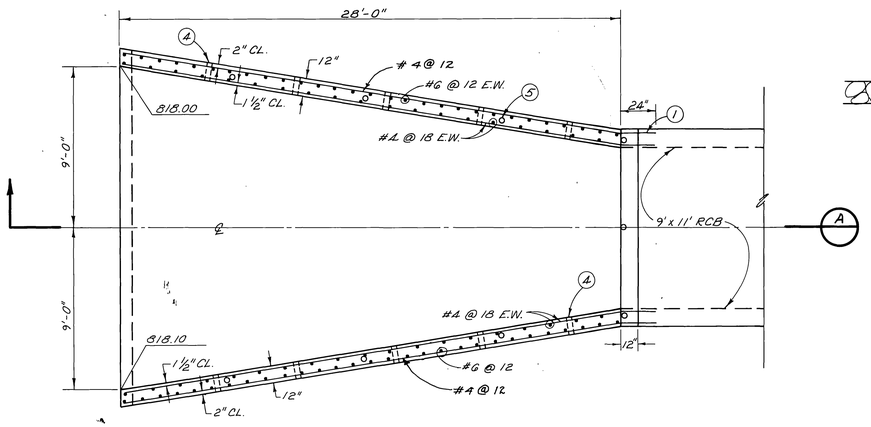
DESIGNED BY: J.R.C.
DRAWN BY: D.L.P.
DATE DRAWN: 1-83
CHECKED BY: A.G.K.

APPROVED BY: Kenneth L. Edwards
CHIEF ENGINEER R.E. NO. 12400
DATE: 7-18-83

MONROE S.D.
RAILROAD LATERAL
CONNECTOR PIPE PROFILES

1970 STORM DRAIN BOND ISSUE PROJECT NO. 16

PROJECT NO. 1-0-072
DRAWING NO. 1-385
SHEET NO. 34 OF 69

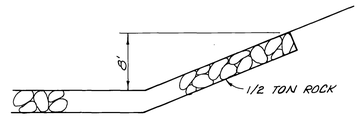


PLAN VIEW

4' 0 4'

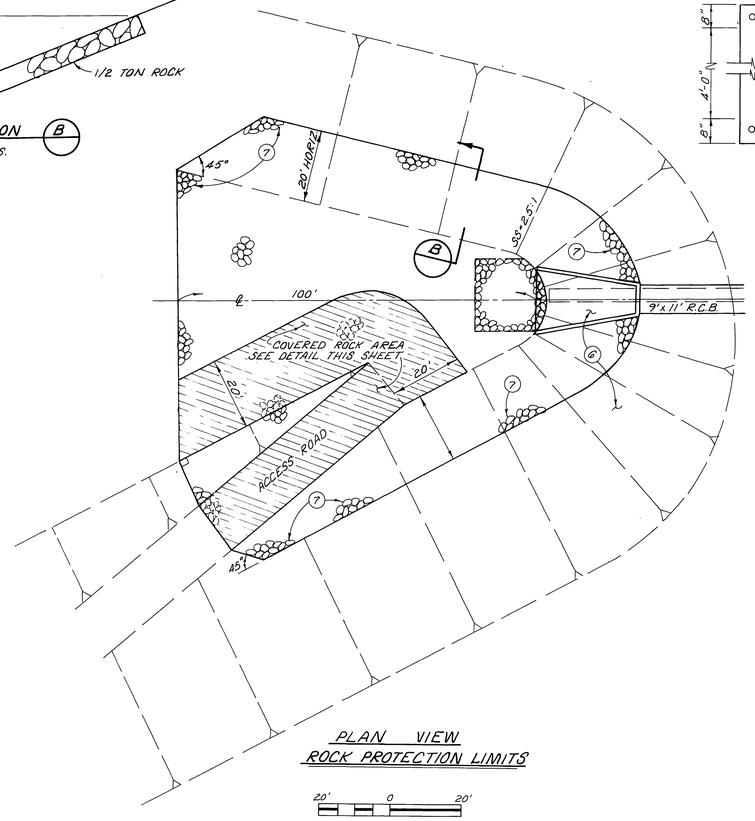
SEE SHEET NO. 2 FOR LOCATION

OUTLET STRUCTURE



SECTION B

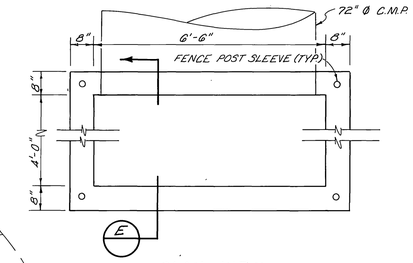
N.T.S.



PLAN VIEW

ROCK PROTECTION LIMITS

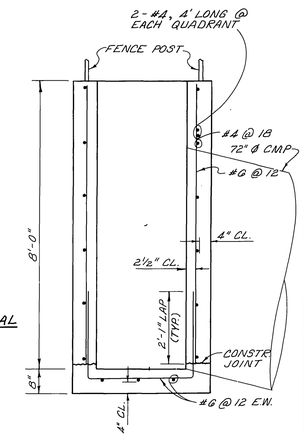
20' 0 20'



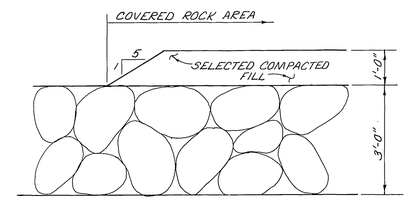
PLAN VIEW

SEE SHEET NO. 28 FOR LOCATION

ST. LAWRENCE WASH LATERAL DROP INLET

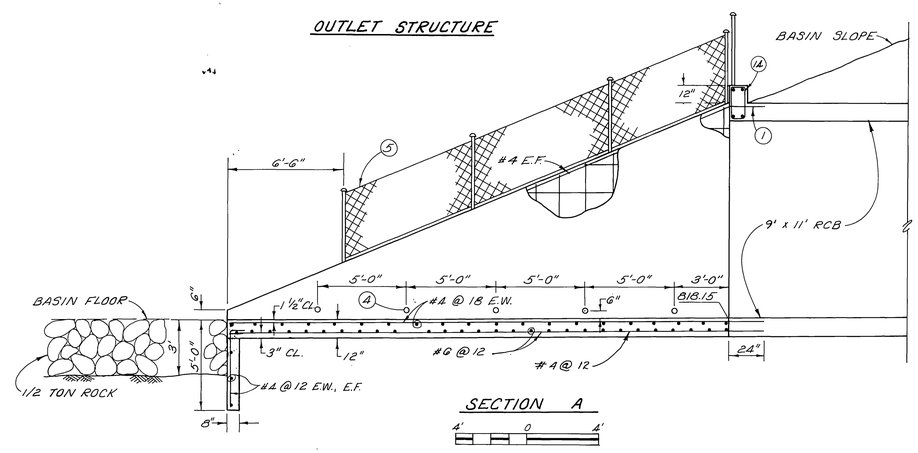


SECTION E



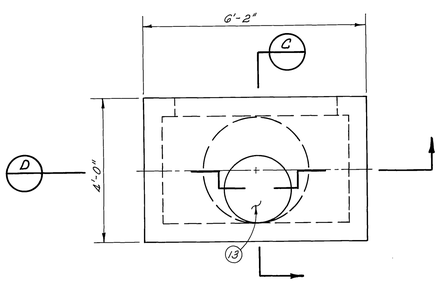
COVERED ROCK DETAIL

N.T.S.



SECTION A

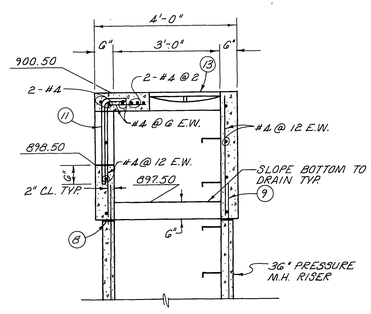
4' 0 4'



PLAN VIEW

M.H. DROP INLET

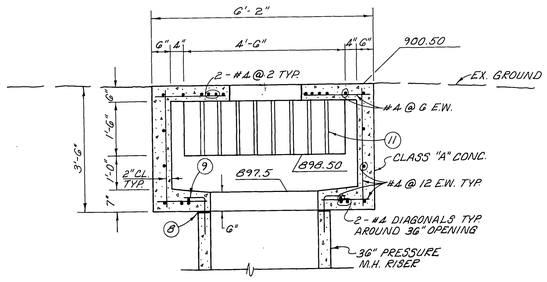
SEE SHEET NO. 2G FOR LOCATION



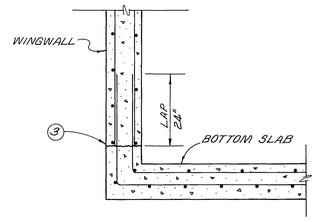
SECTION C

2' 0 2'

TYP. SCALE



SECTION D



CORNER STEEL

N.T.S.

NOTES:

1. LAP WINGWALL & SLAB STEEL 24" INTO R.C.B.
2. ALL STEEL SHALL HAVE 1½" CLEAR COVER ON INSIDE OF THE WALLS & SLAB, 2" COVER ON OUTSIDE OF THE WALLS & 3" ON THE BOTTOM OF THE SLAB.
3. 3½" STARTER WALL WITH CONSTRUCTION JOINT TO BE USED IN ALL CASES FOR OUTLET STRUCTURE.
4. CONSTRUCT 1½" Ø WEEPHOLES WITH RODENT SCREEN & 1 CU. FT. OF FILTER MATERIAL AT EACH HOLE.
5. FOR 4' CHAIN LINK FENCE DETAILS SEE STD. M801.
6. FOR SITE VIEW SEE SHEET 2.
7. 1/2 TON ROCK TO BE USED.
8. 1/2" EXPANSION MATERIAL BETWEEN M.H. RISER AND DROP INLET.
9. EXTEND M.H. RISER STEEL 12" INTO DROP INLET.
10. WIDEN SWALE LAST 50' TO 4'-6" WIDE APPROACHING M.H. DROP INLET.
11. PROTECTION BARS ARE SMOOTH STEEL BARS 1" Ø INSTALLED WITH 6" EMBEDMENT AT 6" CENTER TO CENTER.
12. STEPS - STD. CB110 (NOTE 5) & STD. MH259.
13. M.H. FRAME & COVER STD. CB103.
14. 2 - #6 BARS (EACH) TOP & BOTTOM OF PARAPET WITH #4 HOOPS @ 18".

INDEXED 9-3-87 LH D-527

BENCH MARK	REVISIONS				RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT			MONROE STORM DRAIN RAILROAD LATERAL	PROJECT NO. 1-0-072
					DESIGNED BY: J.R.C.	RECOMMENDED FOR APPROVAL BY:	APPROVED BY:	OUTLET STRUCTURE & OTHER DETAILS	DRAWING NO. 1-385
					DRAWN BY: D.L.P.	DESIGN ENGINEER R.E. NO. 16757	CHIEF ENGINEER R.E. NO. 12400		SHEET NO. 35 OF 69
					DATE DRAWN: 6-83	DATE: 18 July 83	DATE: 7-18-83	1970 STORM DRAIN BOND ISSUE PROJECT NO. 16	
	No Change				CHECKED BY:				
	REF.	DESCRIPTION	APPR.	DATE					

AS BUILT