

# RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

## LEGEND

ANCHOR & POLE	
CATCH BASIN	
CULVERT WITH HEADWALLS	
FENCE (NOT CHAIN LINK)	
FENCE (CHAIN LINK TO BE CONST.)	
FENCE (CHAIN LINK EXIST.)	
FIRE HYDRANT	
GAS LINE	
GAS METER	
MANHOLE	
POWER POLE	
RIGHT OF WAY LINE (FLOOD CONTROL)	
SANITARY SEWER	
STORM DRAIN LINE	
STREET RIGHT OF WAY	
TEMPORARY CONST. EASEMENT	
WALL - BLOCK OR MASONRY	
WATER LINE	
WATER METER	
WATER VALVE	
IRRIGATION LINE	
MTD TELEPHONE	
BURIED TELEPHONE CABLE	
UNDERGROUND ELEC. CONDUIT	
FIRE ALARM CONDUIT	
STREET LIGHT CONDUIT	
PRIVATE OR SECONDARY ROAD	
EXISTING FLOW LINE	
TRAFFIC SIGNAL CONDUIT	
STREET LIGHT STANDARD WITH OR WITHOUT TRAFFIC SIGNALS OR TRAFFIC SIGNAL STANDARD	
BORING LOCATION	

## ABBREVIATIONS

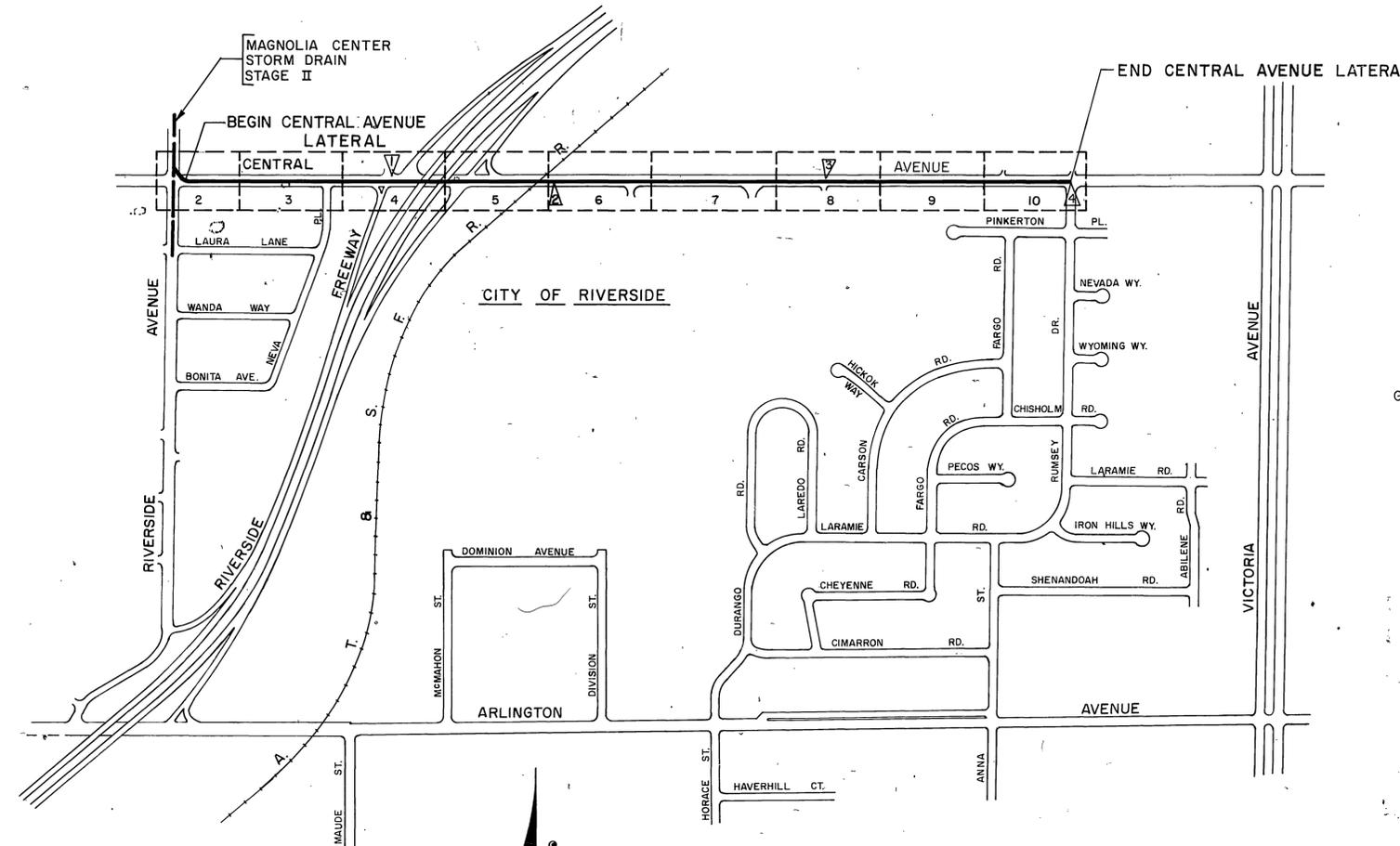
T.B.M.	TEMPORARY BENCH MARK
C.B.	CATCH BASIN
C.M.P.	CORRUGATED METAL PIPE
J.S.	JUNCTION STRUCTURE
M.H.	MANHOLE
P.C.C.	POINT OF COMPOUND CURVE
P.I.	POINT OF INTERSECTION
P.R.C.	POINT OF REVERSE CURVE
R.C.B.	REINFORCED CONCRETE BOX
R.C.P.	REINFORCED CONCRETE PIPE
T.S.	TRANSITION STRUCTURE

## INDEX

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## GENERAL NOTES:

- ELEVATIONS SHOWN ARE IN FEET ABOVE THE U.S.G.S. MEAN SEA LEVEL DATUM.
- STATIONS SHOWN ON DRAWINGS ARE ALONG CENTER LINE OF CONDUIT OR ON A LINE NORMAL TO CENTER LINE OF CONDUIT.
- DIMENSIONS FOR LOCATING CATCH BASINS ARE MEASURED FROM CURB RETURN TO CENTER LINE OF CATCH BASIN, UNLESS OTHERWISE SHOWN.
- 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.
- EXISTING UTILITIES SHALL BE PROTECTED IN PLACE BY THE CONTRACTOR, UNLESS OTHERWISE NOTED.
- LOCATIONS SHOWN ON THE PLANS FOR EXISTING SANITARY SEWER HOUSE CONNECTIONS ARE APPROXIMATE ONLY.
- ALL OPENINGS RESULTING FROM THE CUTTING OR PARTIAL REMOVAL OF EXISTING CULVERTS, PIPES OR SIMILAR STRUCTURES SHALL BE SEALED WITH 8 INCHES OF BRICK & MORTAR OR 3/4 INCHES OF CONCRETE, UNLESS OTHERWISE SHOWN.
- ALL CURBS, GUTTERS, SIDEWALKS, DRIVEWAYS AND OTHER IMPROVEMENTS SHALL BE RECONSTRUCTED TO THEIR ORIGINAL GRADE, ELEVATION AND LOCATION UNLESS OTHERWISE NOTED.
- SOIL TEST BORINGS FOR THIS PROJECT WERE MADE 1-26-72.



INDEXED *5*

RIVERSIDE COUNTY FLOOD CONTROL  
AND  
WATER CONSERVATION DISTRICT

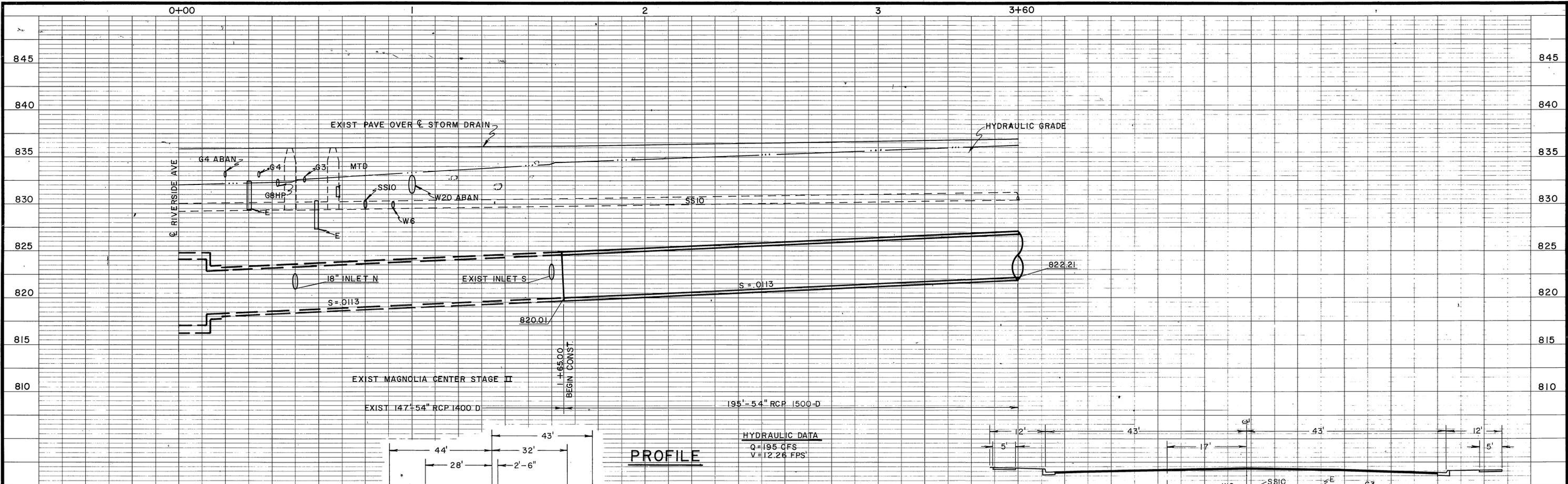
**MAGNOLIA CENTER STORM DRAIN  
CENTRAL AVENUE LATERAL  
1970 STORM DRAIN BOND ISSUE NO. 9  
MAP & GENERAL NOTES  
ABBREVIATIONS & LEGEND**

REVISION: ADDED SHEETS 37 & 38 *ATE* 8-18-72

PROJECT NO. 1-0-194  
AS BUILT

Approved: <i>John J. ...</i>	Designed: <i>...</i>	Sheet No. 1 of 1
Drawn: <i>...</i>	Checked: <i>...</i>	Dwg. No. 1-297
Date: 6-7-72	Date Drawn: 6-7-72	

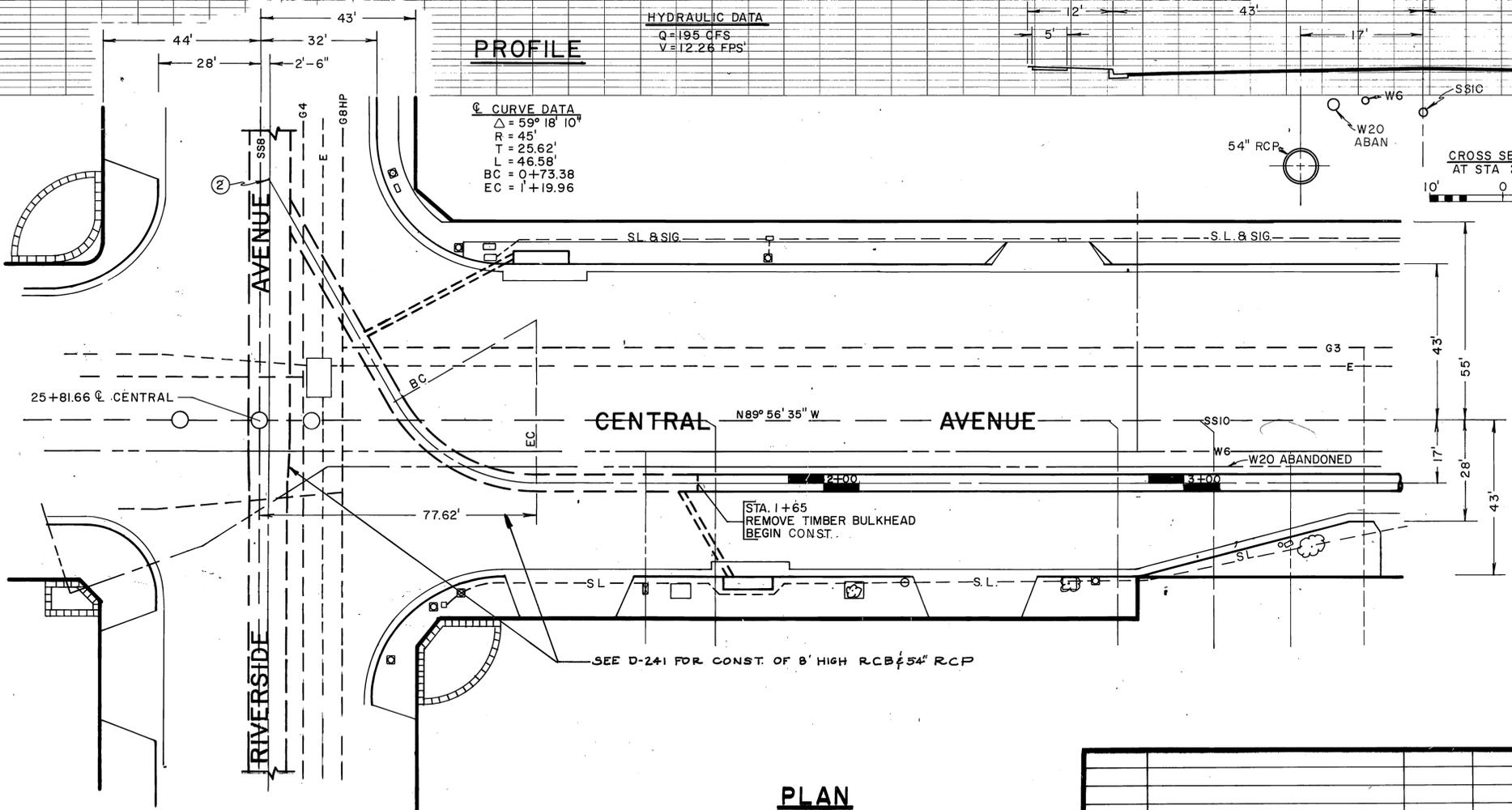
D-266



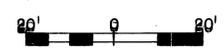
**PROFILE**  
 HYDRAULIC DATA  
 Q = 195 CFS  
 V = 12.26 FPS

**CURVE DATA**  
 $\Delta = 59^\circ 18' 10''$   
 R = 45'  
 T = 25.62'  
 L = 46.58'  
 BC = 0+73.38  
 EC = 1+19.96

- NOTES:**
1. TBM-"X" CUT AT CENTER OF CURB RETURN AT NE CORNER OF THE INTERSECTION OF CENTRAL AVE & RIVERSIDE AVE ELEV 836.40.
  2. 131+43.88 MAIN LINE = 0+00 LATERAL.
  3. STREET ASPHALT PAVING REPLACEMENT SHALL CONSIST OF 4" A.C. ON 6" A.B. CLASS 3.



**PLAN**



REFERENCE	DESCRIPTION	APPROVER	DATE

**REVISIONS**  
 AS BUILT

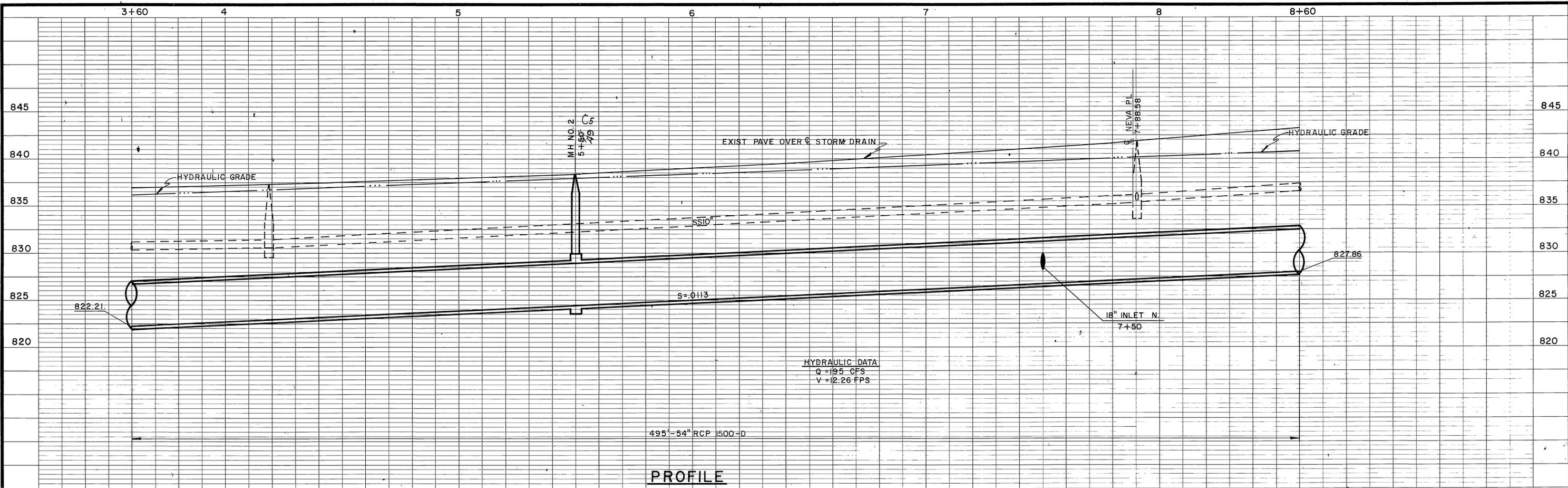
**RIVERSIDE COUNTY FLOOD CONTROL**  
 AND  
**WATER CONSERVATION DISTRICT**

**MAGNOLIA CENTER STORM DRAIN**  
 CENTRAL AVENUE LATERAL  
 1970 STORM DRAIN BOND ISSUE PROJECT NO. 9  
 PLAN & PROFILE  
 STA 1+65 TO STA 3+60  
**PROJECT NO. 1-0-194**

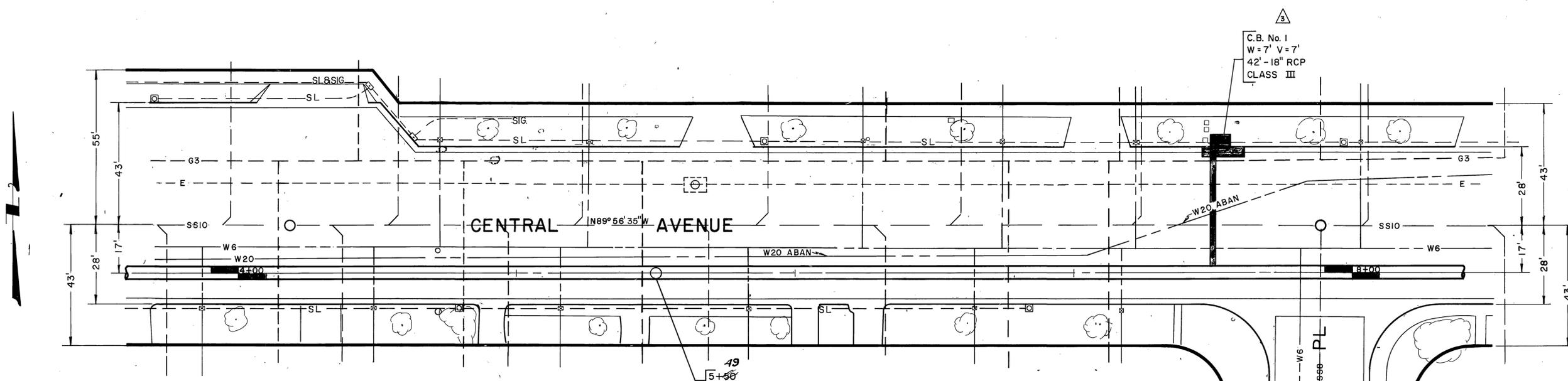
Designed: JH & DZ	Sheet No. 2 of 2
Drawn: DJ	Drawn: DJ
Checked: DMM	Checked: DMM
Date Drawn: 3-17-78	Date: 3-17-78
Rate: 1-867	Rate: 1-867

Approved: *[Signature]*  
 Civil Engineer, R.F. No. 8822  
 Date: 3-17-78

D-266

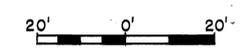


PROFILE



PLAN

- NOTES:
1. TBM - "X" CUT AT CENTER OF CURB RETURN AT S.E. CORNER OF THE INTERSECTION OF CENTRAL AVE AND NEVA PLACE EL 842.29.
  2. STREET ASPHALT PAVING REPLACEMENT SHALL CONSIST OF 3" A.C. ON 6" A.B. CLASS 3.



REFERENCE	DESCRIPTION	APPROVED	DATE
C5	M.H. Sta. Change	<i>[Signature]</i>	8-8-74
A	ADDED C.B. No. 1	<i>[Signature]</i>	8-18-72

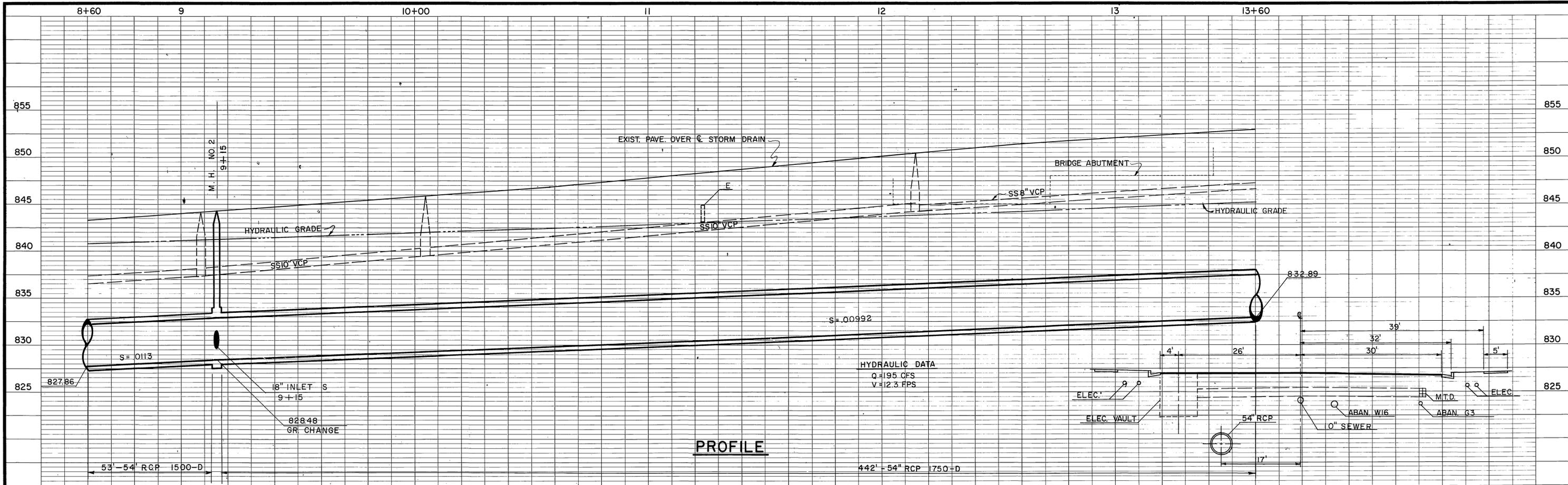
REVISIONS  
AS BUILT

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

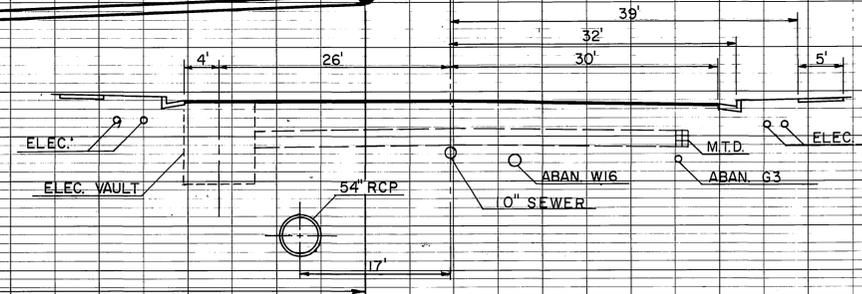
**MAGNOLIA CENTER STORM DRAIN**  
CENTRAL AVENUE LATERAL  
1970 STORM DRAIN BOND ISSUE PROJECT NO. 9  
PLAN & PROFILE  
STA 3+60 TO STA 8+60  
PROJECT NO. 1-0-194

Designed: JH & DZ	Sheet No. 3 of 3
Drawn: DJ	Dwg. No. 1-287
Checked: DMM	Date Drawn: 10-27-71
Approved: <i>[Signature]</i> Civil Engineer, R.E. No. 8822	Date: 8-1-72

D-2.66

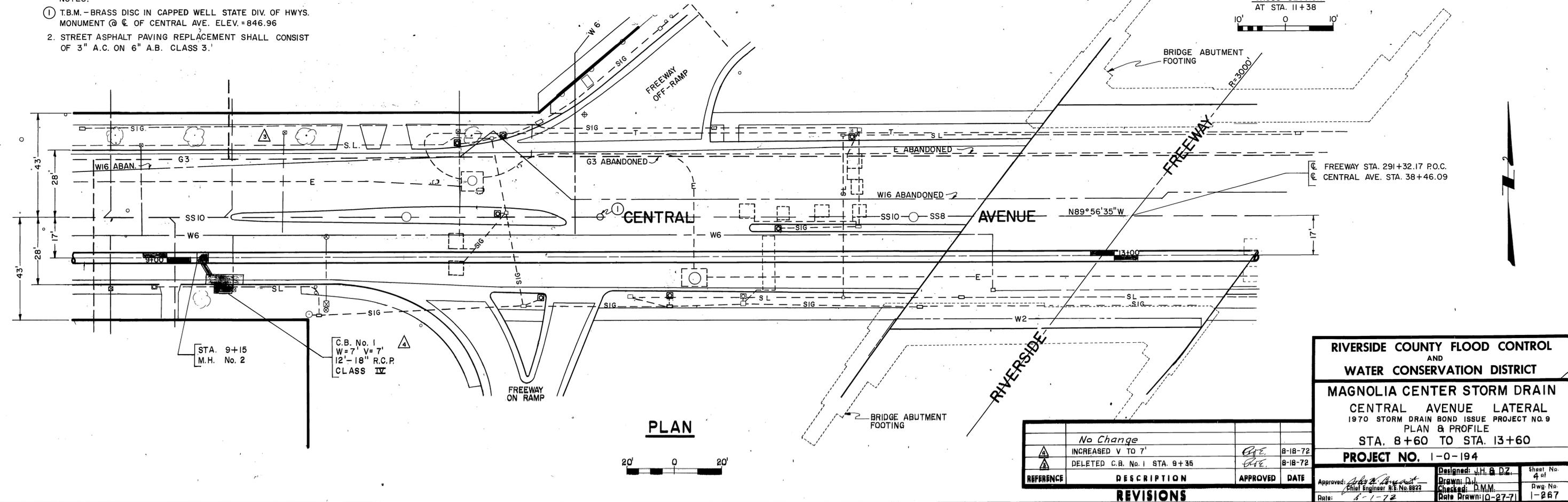


**PROFILE**

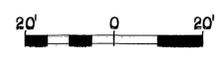


**CROSS SECTION AT STA. 11+38**

- NOTES:
1. T.B.M. - BRASS DISC IN CAPPED WELL STATE DIV. OF HWYS. MONUMENT @ C. OF CENTRAL AVE. ELEV. = 846.96
  2. STREET ASPHALT PAVING REPLACEMENT SHALL CONSIST OF 3" A.C. ON 6" A.B. CLASS 3.



**PLAN**



REFERENCE	DESCRIPTION	APPROVED	DATE
	No Change		
	INCREASED V TO 7'	<i>[Signature]</i>	8-18-72
	DELETED C.B. No. 1 STA. 9+35	<i>[Signature]</i>	8-18-72

**REVISIONS AS BUILT**

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

**MAGNOLIA CENTER STORM DRAIN**

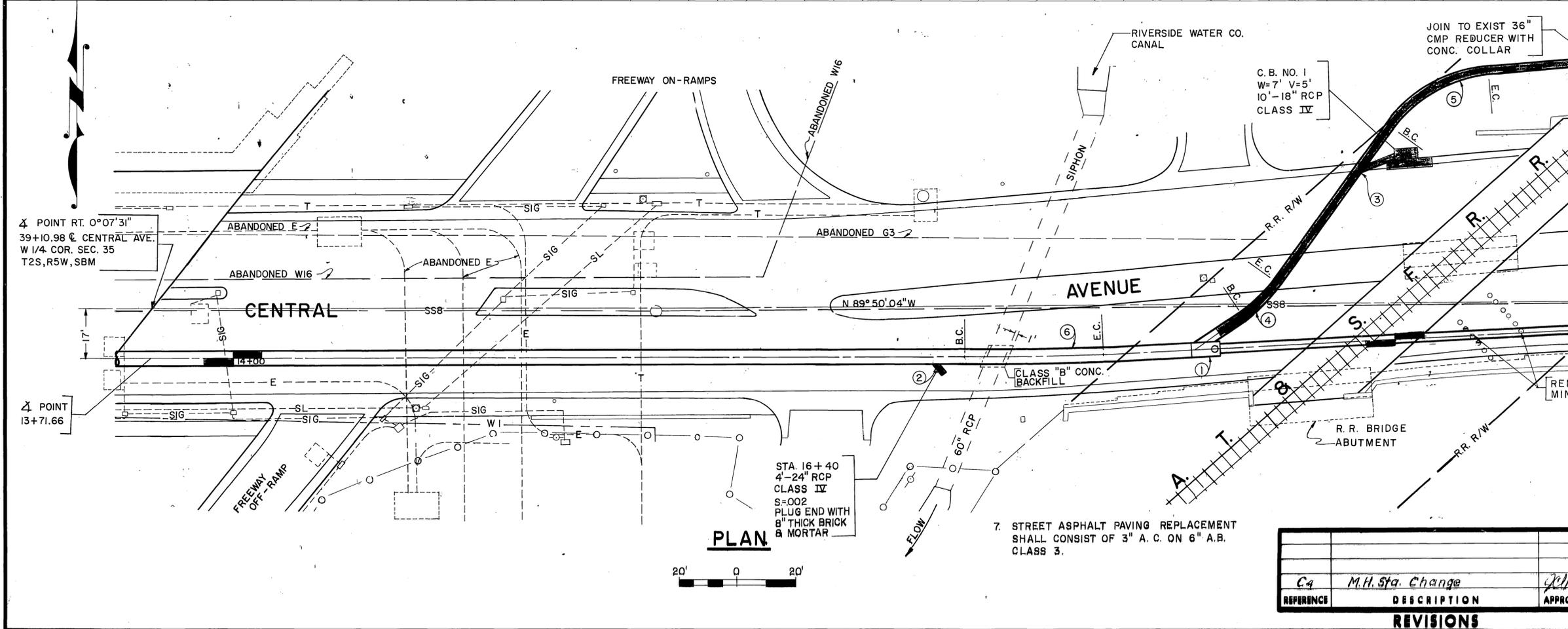
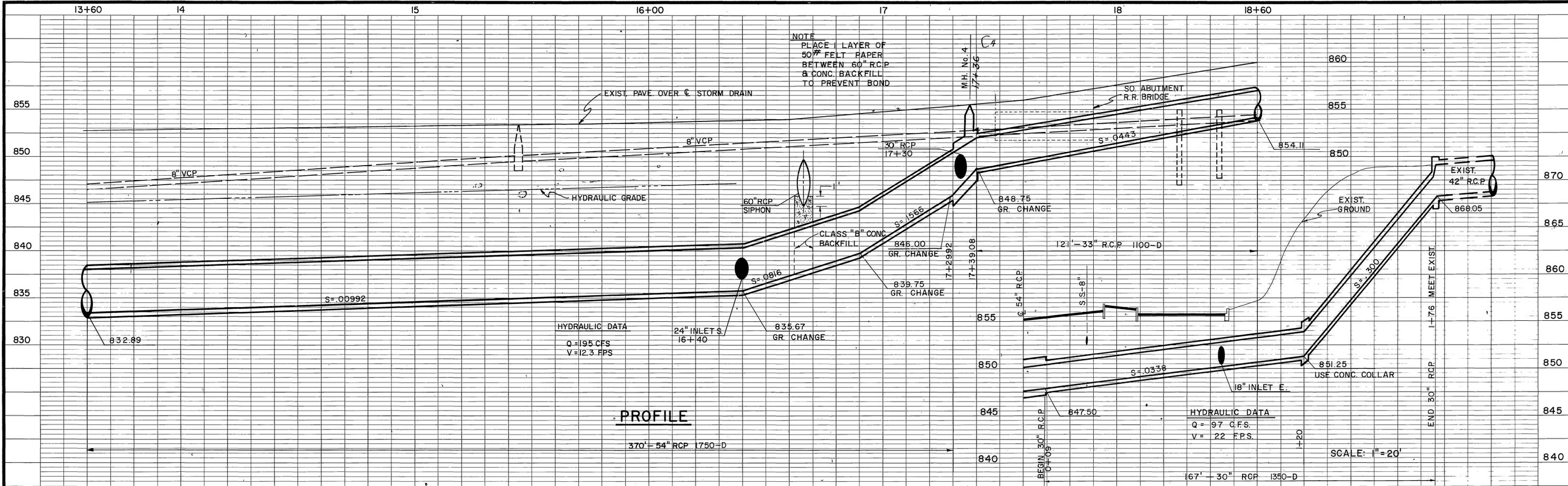
CENTRAL AVENUE LATERAL  
1970 STORM DRAIN BOND ISSUE PROJECT NO. 9  
PLAN & PROFILE  
STA. 8+60 TO STA. 13+60

**PROJECT NO. 1-0-194**

Designed: J.H. & D.Z.	Sheet No. 4 of 4
Drawn: D.H.	Dwg. No. 1-267
Checked: D.M.M.	
Date Drawn: 10-27-71	

Approved: *[Signature]*  
Chief Engineer, R.C. No. 8922  
Date: 8-1-72

D-266



- NOTES
- M.H. No. 4 STA. 17+36 C4  
 $A=30^\circ$   $B=33'$   $C=9'$   $D_1=33'$   $D_2=54'$   $E=9'6''$   
 ELEV. R = 847.55 ELEV. S = 847.40 L = 10'
  - JUNCTION STRUCTURE NO. 2  
 $A=50^\circ$   $B=24'$   $C=5.6'$   $D=54'$   $E=4.1'$   $F=2.5'$   
 $G=2.0'$   $L=4.2'$  ELEV. R = 836.93 ELEV. S = 836.92
  - JUNCTION STRUCTURE NO. 2  
 $A=35^\circ$   $B=18'$   $C=5.2'$   $D=30'$   $E=4.1'$   $F=1.3'$   
 $G=0.9'$   $L=4.4'$  ELEV. R = 850.92 ELEV. S = 850.66
  - ④ CURVE DATA  
 $\Delta=22^\circ00'00''$  L = 17.28'  
 R = 45' B.C. = 0+20.70  
 T = 8.75' E.C. = 0+37.98
  - ⑤ CURVE DATA  
 $\Delta=40^\circ39'34''$  L = 31.93'  
 R = 45' B.C. = 1+13.36  
 T = 16.67' E.C. = 1+45.30
  - ⑥ CURVE DATA  
 $\Delta=2^\circ44'30''$  L = 47.85'  
 R = 1000' B.C. = 16+51.68  
 T = 23+93' E.C. = 16+99.53
- REMOVE INTERFERING TIMBER PILES.  
MIN. 6" BELOW BOTTOM OF PIPE

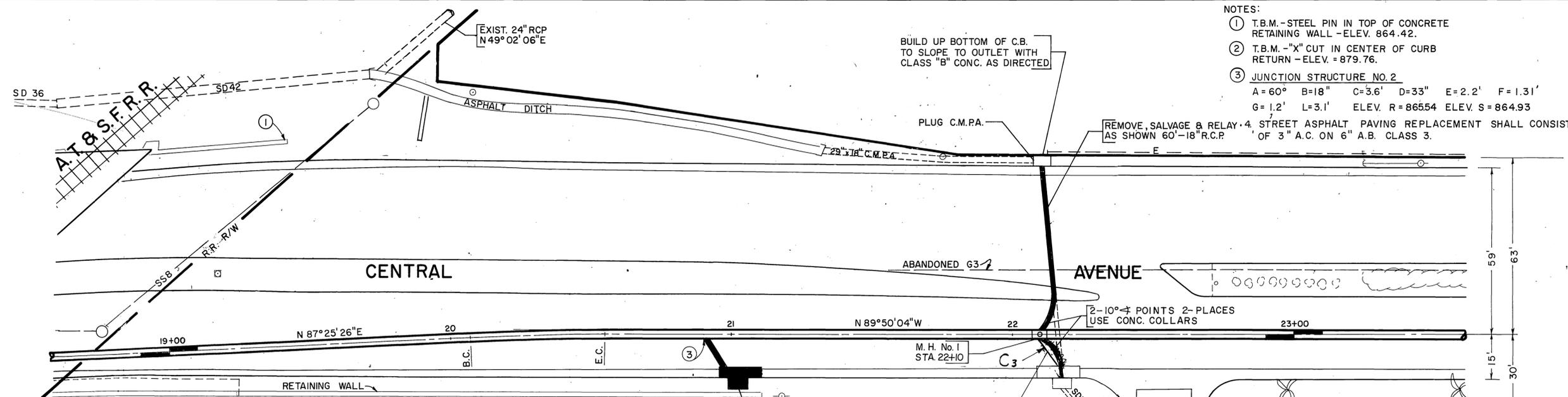
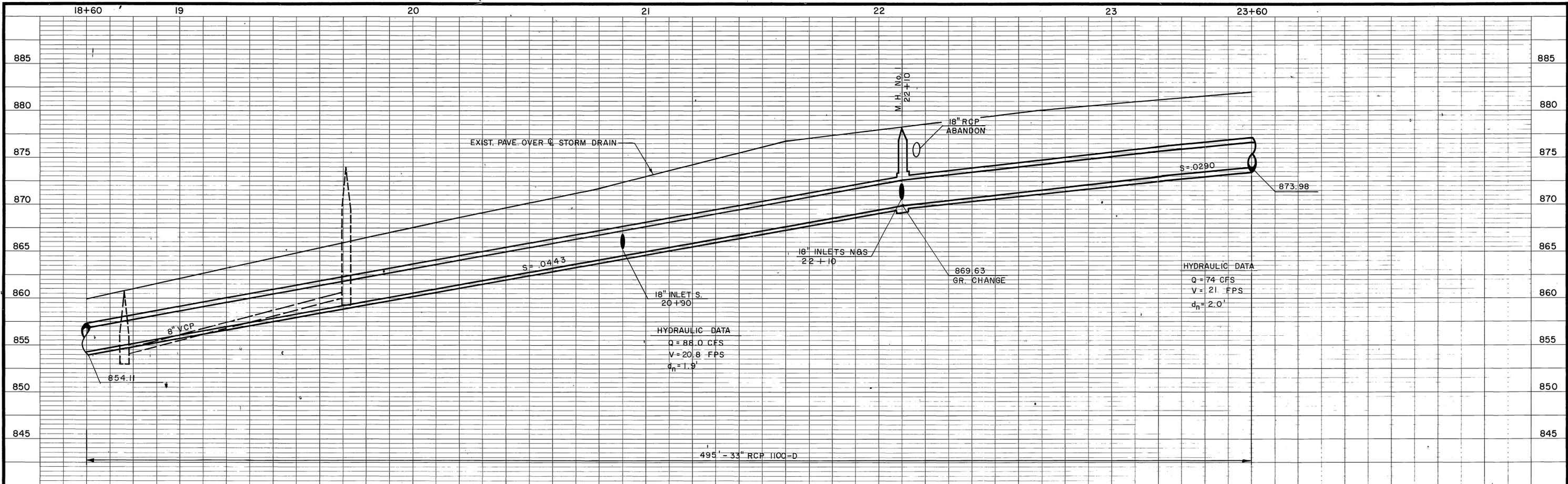
**RIVERSIDE COUNTY FLOOD CONTROL  
AND  
WATER CONSERVATION DISTRICT**

**MAGNOLIA CENTER STORM DRAIN  
CENTRAL AVENUE LATERAL  
1970 STORM DRAIN BOND ISSUE PROJECT NO. 9  
PLAN & PROFILE  
STA. 13+60 TO STA. 18+60  
PROJECT NO. 1-0-194**

C4	M.H. Sta. Change	APPROVED	DATE
<b>REVISIONS</b>			
AS BUILT			

Designed: J.H. & D.Z.	Sheet No. 5 of 5
Drawn: D.J.	Dwg. No.
Checked: L.M.M.	Date Drawn: 10-27-71
Approved: [Signature]	1-267

D-266



- NOTES:
- ① T.B.M. - STEEL PIN IN TOP OF CONCRETE RETAINING WALL - ELEV. 864.42.
  - ② T.B.M. - "X" CUT IN CENTER OF CURB RETURN - ELEV. = 879.76.
  - ③ JUNCTION STRUCTURE NO. 2  
 A = 60° B = 18" C = 3.6' D = 33" E = 2.2' F = 1.31'  
 G = 1.2' L = 3.1' ELEV. R = 865.54 ELEV. S = 864.93  
 REMOVE, SALVAGE & RELAY 4' STREET ASPHALT PAVING REPLACEMENT SHALL CONSIST AS SHOWN 60'-18" R.C.P. 'OF 3" A.C. ON 6" A.B. CLASS 3.

© CURVE DATA  
 $\Delta = 2^\circ 44' 30''$   
 $R = 1000'$   
 $T = 23.93'$   
 $L = 47.85'$   
 $B.C. = 20+07.08$   
 $E.C. = 20+54.93$

C.B. No. 1  
 $W = 7'$   $V = 5'$   
 18'-18" R.C.P.  
 CLASS IV  
 REMOVE, SALVAGE & RELAY AS SHOWN  
 14'-18" R.C.P.



REFERENCE	DESCRIPTION	APPROVED	DATE
1	Change 18" R.C.P. Alignment	<i>[Signature]</i>	1-8-74

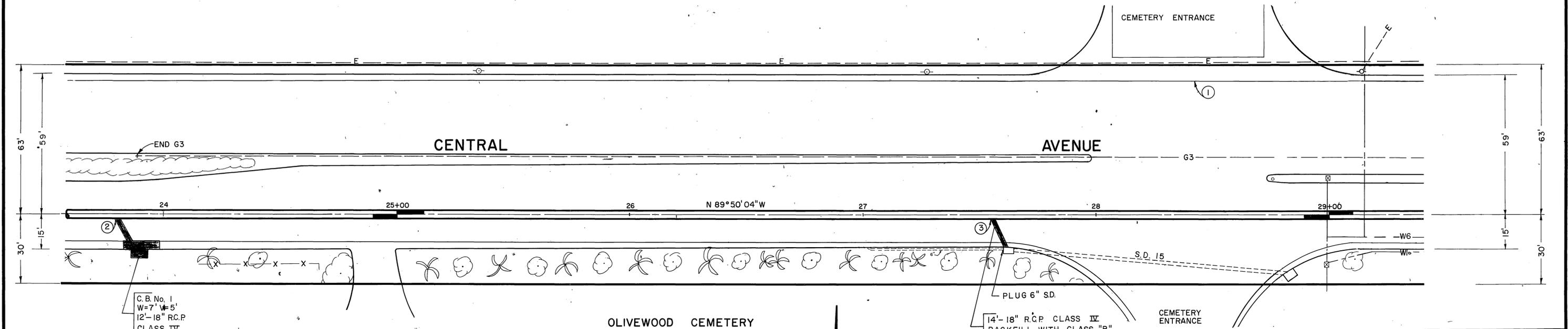
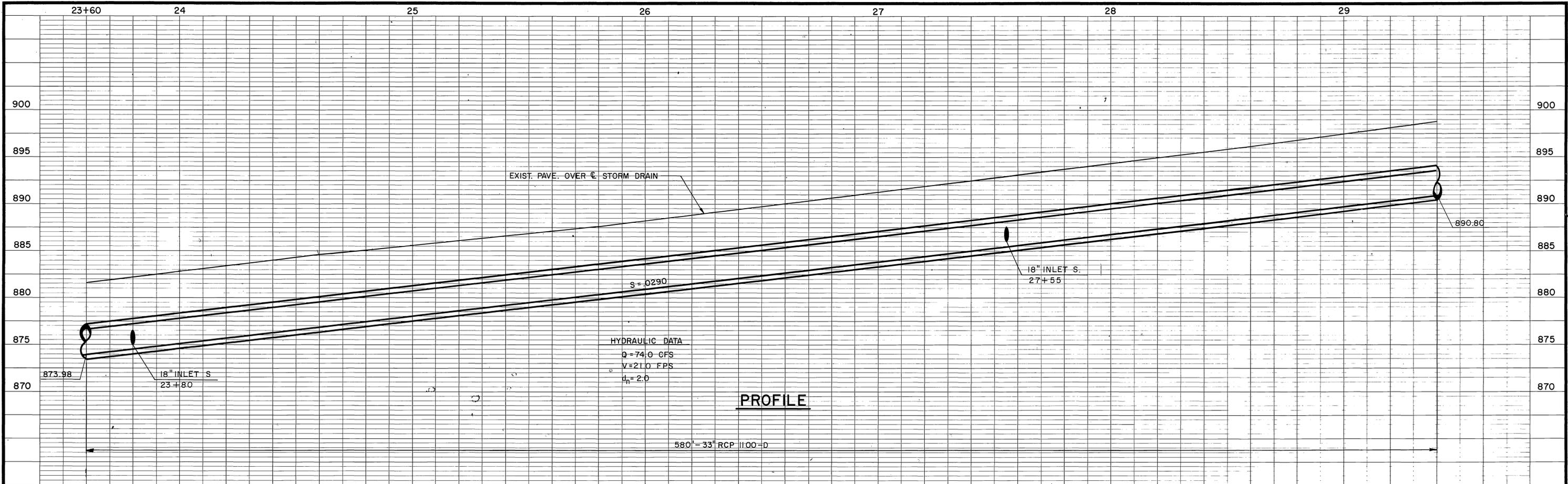
REVISIONS AS BUILT

RIVERSIDE COUNTY FLOOD CONTROL  
 AND  
 WATER CONSERVATION DISTRICT

MAGNOLIA CENTER STORM DRAIN  
 CENTRAL AVENUE LATERAL  
 1970 STORM DRAIN BOND ISSUE PROJECT NO. 9  
 PLAN & PROFILE  
 STA. 18+60 TO STA. 23+60  
 PROJECT NO. 1-0-194

Designed: J.H. & D.Z.  
 Drawn: D.J.  
 Checked: D.M.M.  
 Date Drawn: 10-27-71  
 Sheet No. 6 of 6  
 Dwg. No. 1-287

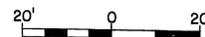
D-260



NOTES:

- ① T.B.M. "X" CUT IN CONC. CROSS GUTTER AT CENTER OF CEMETERY ENTRANCE ON NORTH SIDE OF CENTRAL AVENUE, ELEV. 894.72
- ② JUNCTION STRUCTURE NO. 2  
 $A=60^\circ$   $B=18"$   $C=3.6'$   $D=33"$   $E=2.2'$   $F=1.3'$   
 $G=1.15'$   $L=3.1'$  ELEV. R=875.70 ELEV. S=875.19
- ③ JUNCTION STRUCTURE NO. 2  
 $A=60^\circ$   $B=18"$   $C=3.6'$   $D=33"$   $E=2.2'$   $F=1.1'$   
 $G=1.3'$   $L=3.1'$  ELEV. R=887.37 ELEV. S=886.07
- 4. STREET ASPHALT PAVING REPLACEMENT SHALL CONSIST OF 3" A.C. ON 9" A.B. CLASS 3.

PLAN



REFERENCE	DESCRIPTION	APPROVED	DATE

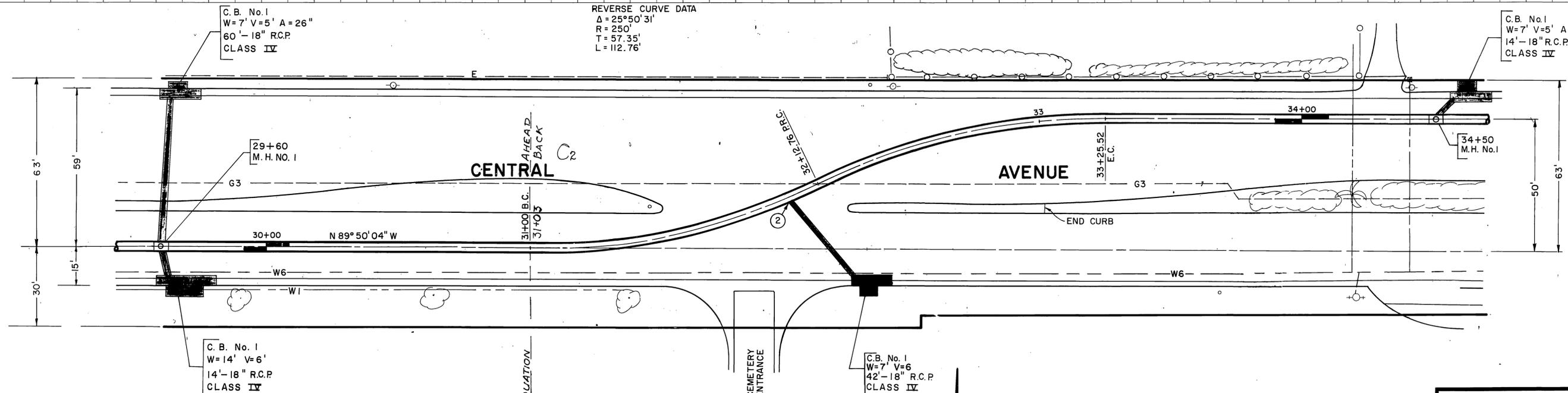
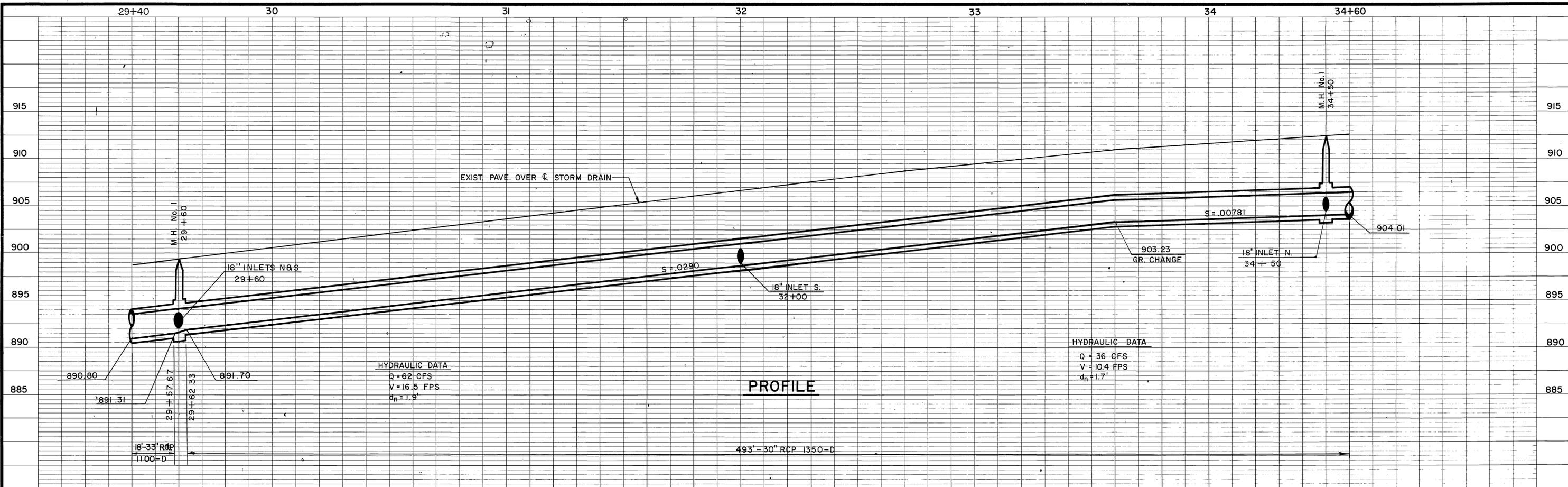
REVISIONS  
AS BUILT

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

**MAGNOLIA CENTER STORM DRAIN**  
 CENTRAL AVENUE LATERAL  
 1970 STORM DRAIN BOND ISSUE PROJECT NO. 9  
 PLAN & PROFILE  
 STA. 23+60 TO STA. 29+60  
 PROJECT NO. 1-0-194

Approved: <i>[Signature]</i> Chief Engineer R.E.No. 8822	Designed: J.H. & DZ	Sheet No. 7 of 7
Date: 6-1-72	Drawn: DJ	Dwg. No. 1-267
	Checked: D.M.M.	Date Drawn: 10-27-71

D-266



NOTES:  
 1. STREET ASPHALT PAVING REPLACEMENT SHALL CONSIST OF 3" A.C. ON 9" A.B. CLASS III.  
 2. JUNCTION STRUCTURE No. 2  
 $A = 70^\circ$ ,  $B = 18'$ ,  $C = 3.0'$ ,  $D = 30'$ ,  $E = 1.7'$ ,  $F = 1.2'$ ,  $G = 0.9'$   
 $L = 2.9'$ , ELEV. R. = 899.22, ELEV. S. = 899.09



REFERENCE	DESCRIPTION	APPROVED	DATE
C2	Equation Sta. Added	<i>[Signature]</i>	1-8-74

**REVISIONS**  
AS BUILT

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

**MAGNOLIA CENTER STORM DRAIN**

**CENTRAL AVENUE LATERAL**

1970 STORM DRAIN BOND ISSUE PROJECT NO. 9

PLAN & PROFILE

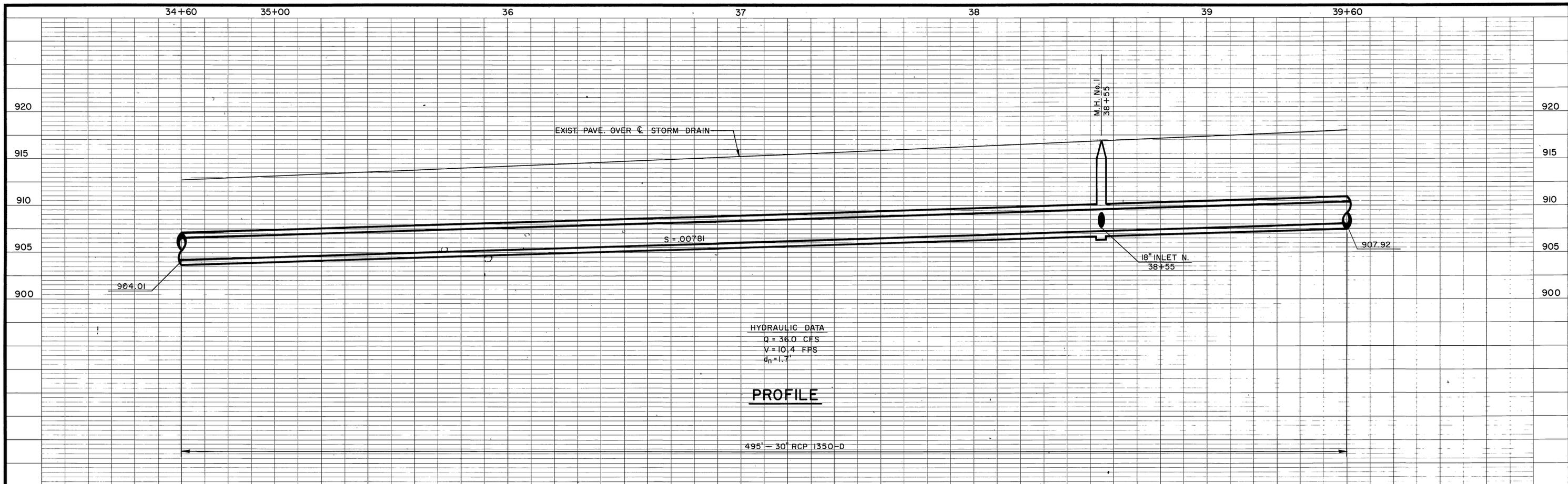
STA. 29+60 TO STA. 34+60

PROJECT NO. 1-0-194

Designed: J.H. B. DZ.  
 Drawn: D.J.  
 Checked: B.M.M.  
 Date: 1-8-74  
 Date Drawn: 10-27-71

Sheet No. 8 of 8  
 Dwg No. 1-287

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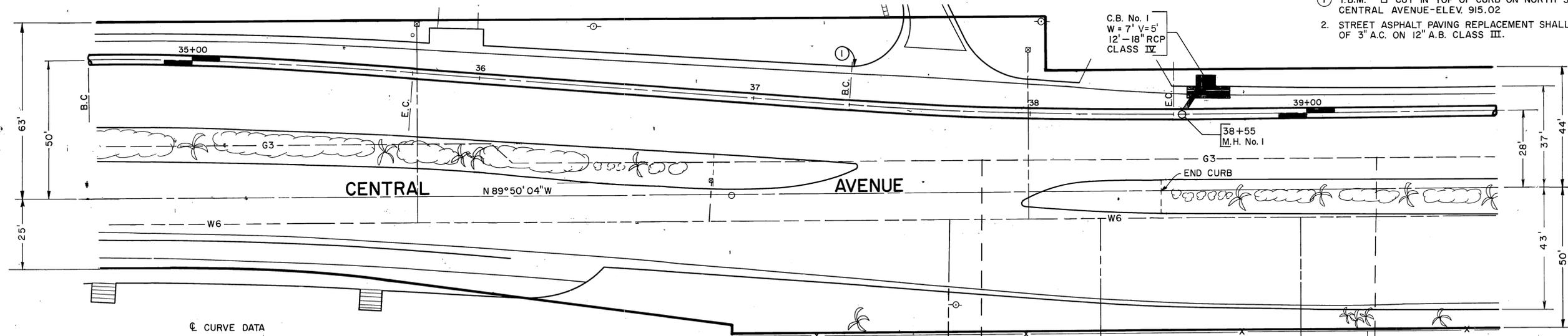


HYDRAULIC DATA  
 Q = 36.0 CFS  
 V = 10.4 FPS  
 $d_n = 1.7'$

**PROFILE**

495' - 30" RCP 1350-D

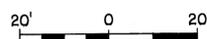
- NOTES:
- T.B.M. - "D" CUT IN TOP OF CURB ON NORTH SIDE OF CENTRAL AVENUE - ELEV. 915.02
  - STREET ASPHALT PAVING REPLACEMENT SHALL CONSIST OF 3" A.C. ON 12" A.B. CLASS III.



☉ CURVE DATA  
 $\Delta = 4^\circ 34' 26''$   
 R = 1415'  
 T = 56.51'  
 L = 112.96'  
 B.C. = 34 + 62.74  
 E.C. = 35 + 75.70

☉ CURVE DATA  
 $\Delta = 4^\circ 34' 26''$   
 R = 1465'  
 T = 58.51'  
 L = 116.95'  
 B.C. = 37 + 35.00  
 E.C. = 38 + 51.95

**PLAN**



REFERENCE	DESCRIPTION	APPROVED	DATE
	No Change		

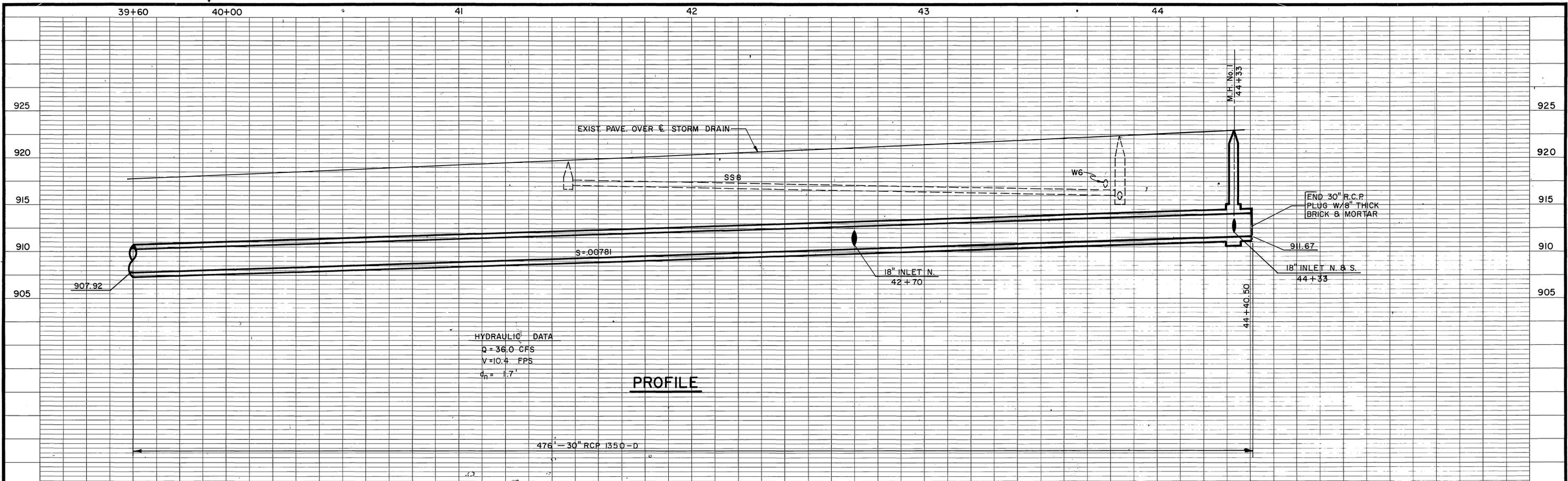
REVISIONS  
 AS BUILT

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

**MAGNOLIA CENTER STORM DRAIN**  
 CENTRAL AVENUE LATERAL  
 1970 STORM DRAIN BOND ISSUE PROJECT NO. 9  
 PLAN & PROFILE  
 STA. 34+60 TO STA. 39+60  
 PROJECT NO. 1-0-194

Designed: J.H. & D.Z.	Sheet No. 9 of 9
Drawn: D.J.	Dwg. No. 1-267
Checked: D.M.M.	Date Drawn: 10-27-71
Date: 6-1-72	

D-266

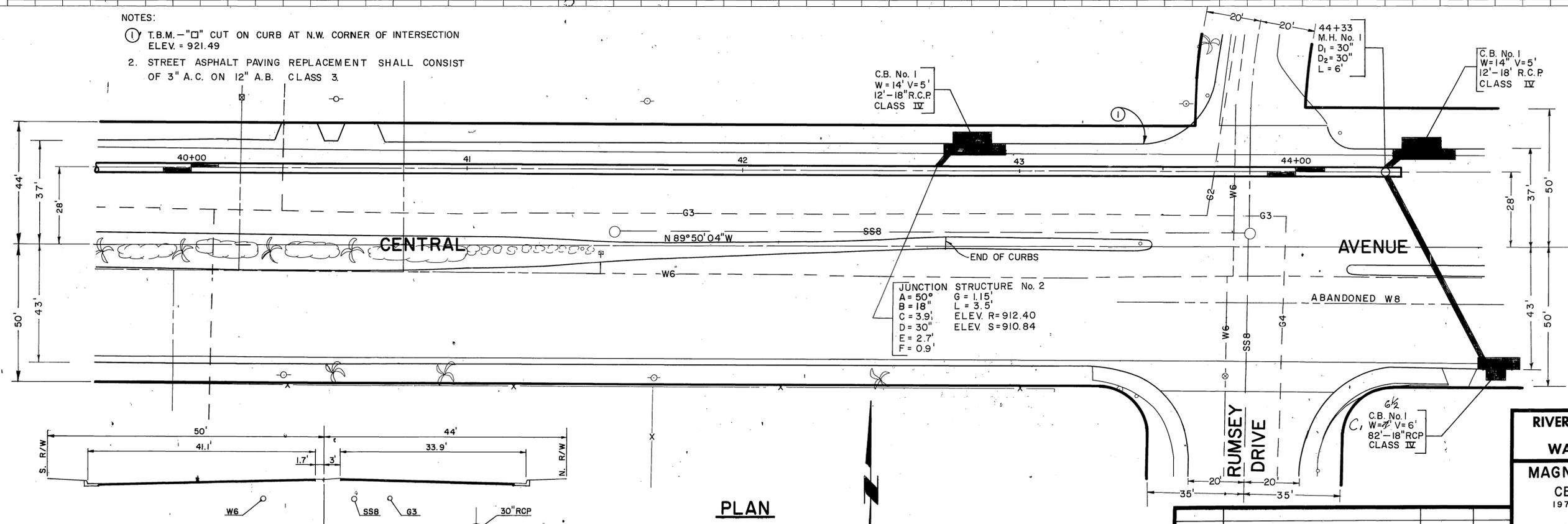


HYDRAULIC DATA  
 Q = 36.0 CFS  
 V = 10.4 FPS  
 $C_m = 1.7$

**PROFILE**

NOTES:

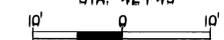
- ① T.B.M. - "□" CUT ON CURB AT N.W. CORNER OF INTERSECTION  
ELEV. = 921.49
- 2. STREET ASPHALT PAVING REPLACEMENT SHALL CONSIST  
OF 3" A.C. ON 12" A.B. CLASS 3.



JUNCTION STRUCTURE No. 2  
 A = 50" G = 1.15'  
 B = 18" L = 3.5'  
 C = 3.9' ELEV. R = 912.40  
 D = 30" ELEV. S = 910.84  
 T = 2.7'  
 T' = 0.9'

**PLAN**

**CROSS SECTION**  
 STA. 42+43



REFERENCE	DESCRIPTION	APPROVED	DATE
C1	Change Width	<i>JCD</i>	1-8-74

**REVISIONS AS BUILT**

**RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT**  
**MAGNOLIA CENTER STORM DRAIN**  
 CENTRAL AVENUE LATERAL  
 1970 STORM DRAIN BOND ISSUE PROJECT NO. 9  
 PLAN & PROFILE  
 STA. 39+60 TO STA. 43+55  
 PROJECT NO. 1-0-194

Designed: J.H. & D.Z.  
 Drawn: D.J.  
 Checked: D.M.M.  
 Date Drawn: 10-27-71

Sheet No. 10 of 1-287  
 Dwg. No. 1-287