

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

LEGEND

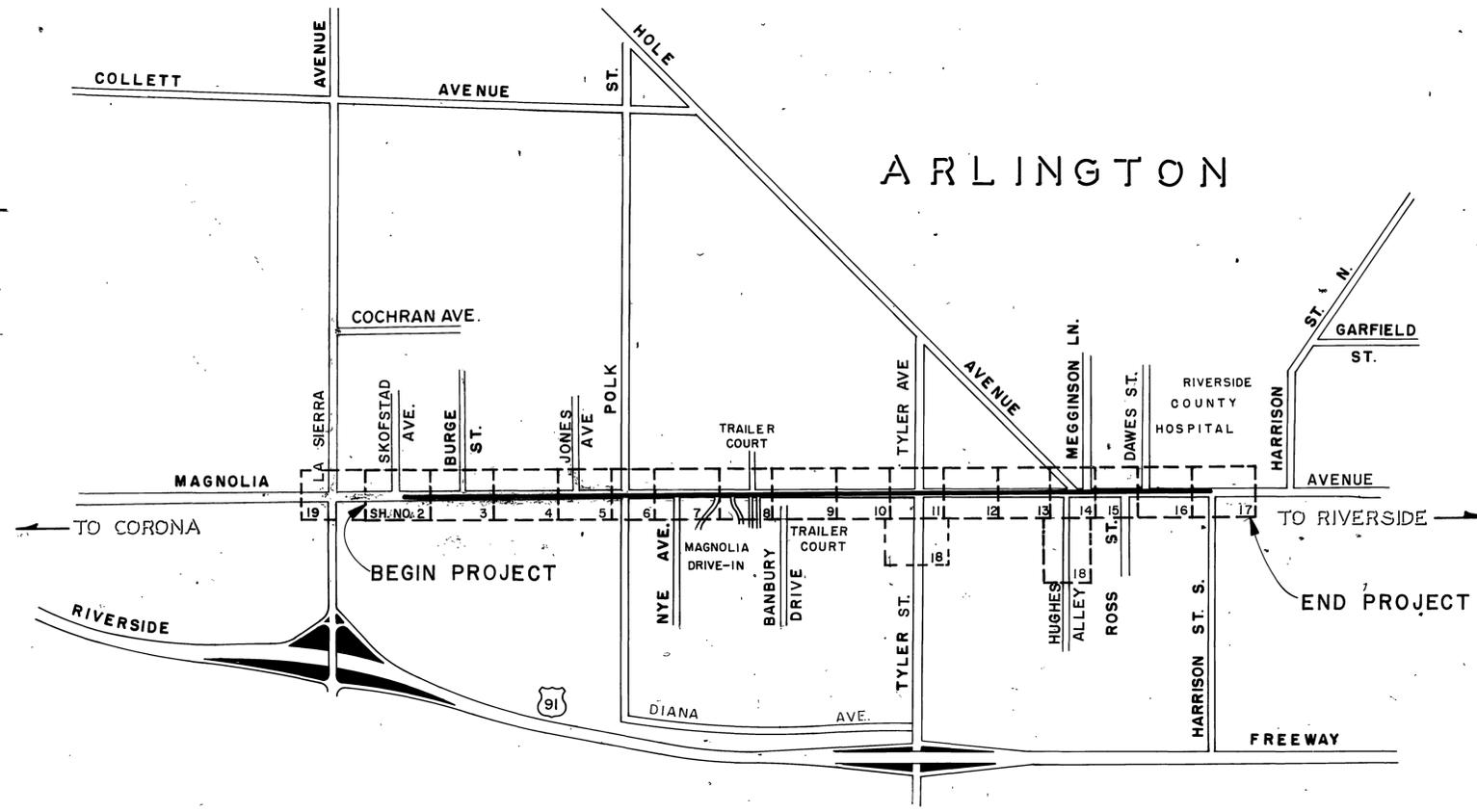
ANCHOR & POLE	
CATCH BASIN	
CULVERT WITH HEADWALLS	
FENCE (NOT CHAIN LINK)	
FENCE (CHAIN LINK TO BE CONST.)	
FENCE (CHAIN LINK EXIST.)	
FIRE HYDRANT	
GAS LINE	
GAS METER	
MANHOLE	
POWER POLES	
RIGHT OF WAY LINE (FLOOD CONTROL)	
SANITARY SEWER LINE	
STORM DRAIN LINE	
STREET RIGHT OF WAY	
TEMPORARY CONST.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

ABBREVIATIONS

CMP	CORRUGATED METAL PIPE
RCP	REINFORCED CONCRETE PIPE
CB	CATCH BASIN
PCC	POINT OF COMPOUND CURVE
PI	POINT OF INTERSECTION
PRC	POINT OF REVERSE CURVE
PVI	POINT OF VERTICAL INTERSECTION
RCB	REINFORCED CONCRETE BOX
TS	TRANSITION STRUCTURE
JS	JUNCTION STRUCTURE
MH	MANHOLE

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INDEXED \$

RIVERSIDE COUNTY FLOOD CONTROL
AND
WATER CONSERVATION DISTRICT

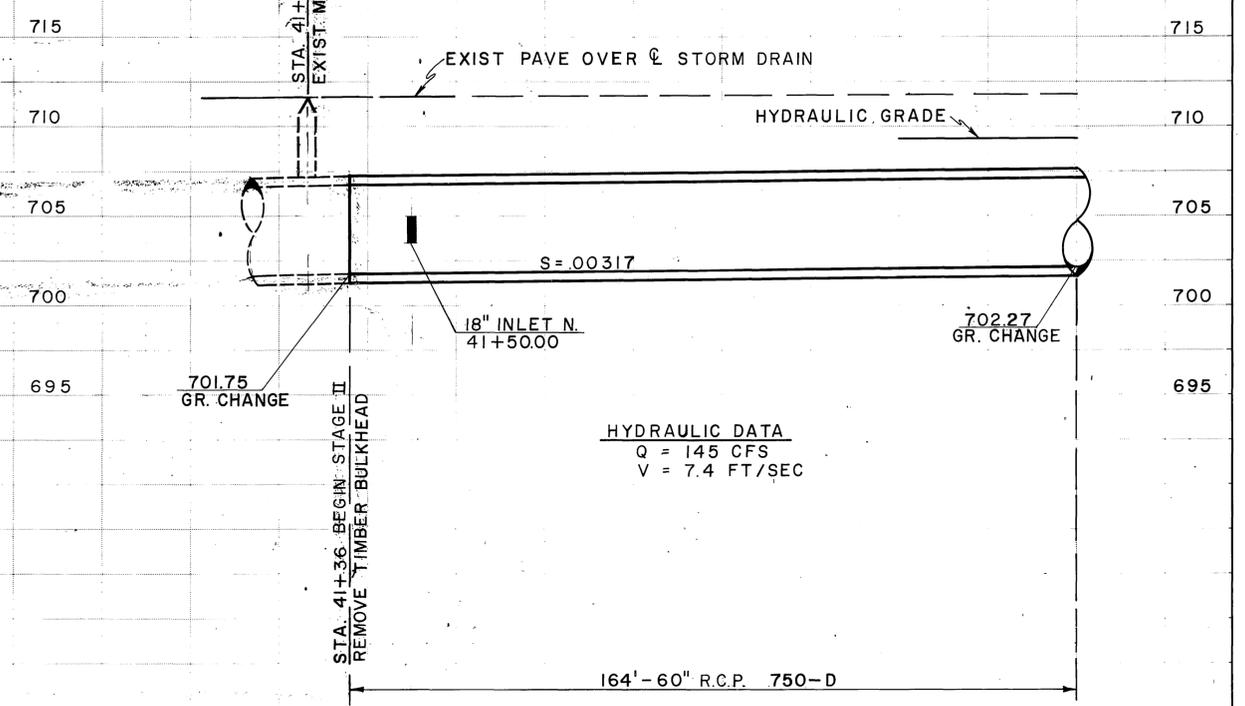
**LA SIERRA CHANNEL
MAGNOLIA DRAIN
STAGE II**

LEGEND, ABBREVIATIONS, MAP & GENERAL NOTES

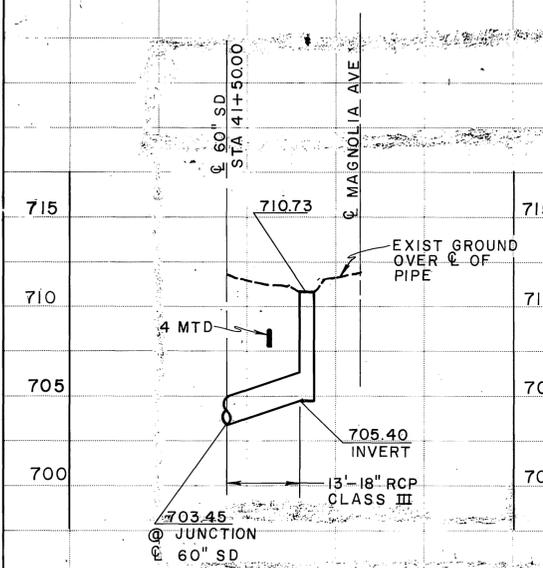
Approved: <i>John W. Brown</i> Chief Engineer, R.C.F.C. & W.C.D.	Designed: <i>J.H. & J.L.</i> Checked: <i>DM</i> Date: <i>7-1-71</i>	Sheet No. <i>1</i> of <i>1</i> Dwg. No. <i>1-252</i> Date Drawn: <i>8-22-71</i>
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BOND ISSUE PROJECT NO 23
PROJECT NO. 1-0-062
AS BUILT

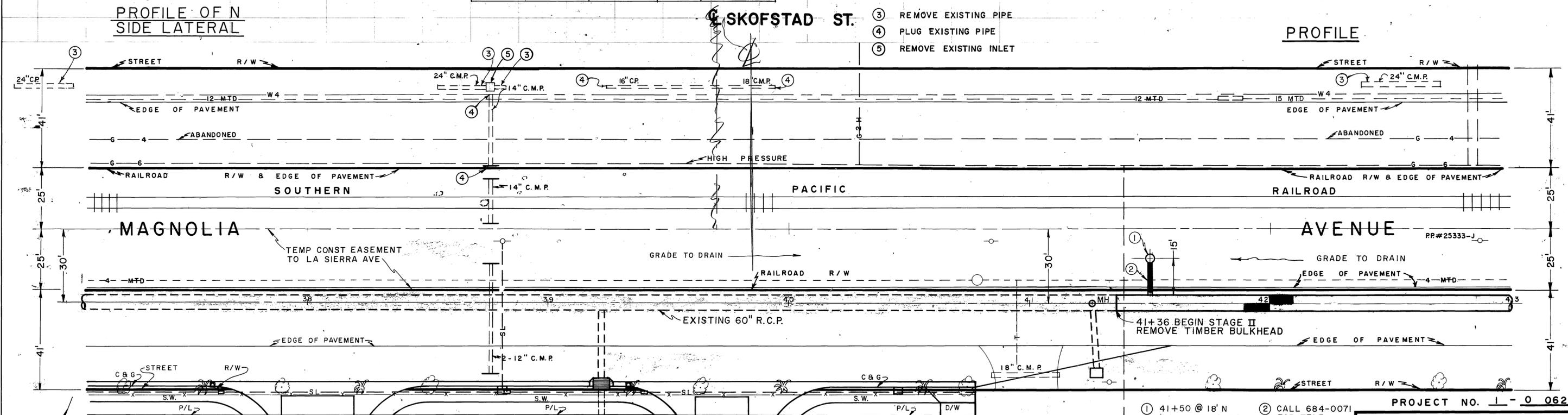
D-243



MAIN LINE SUMMARY				
FROM STATIONS	TO	LENGTH	PIPE DIA.	D-LOAD
41+36	43+00	164'	60"	750
43+00	60+31	1731'	60"	700
JUNCTION AT POLK ST			MH NO. 2	
60+38	64+00	362'	54"	800
64+00	70+00	600'	54"	850
70+00	72+36	236'	54"	900
JUNCTION AT STA 72+40			MH NO. 4	
72+45	81+00	855'	42"	1000
81+00	87+64	664'	42"	1050
JUNCTION AT TYLER ST			MH NO. 4	
87+76	91+00	324'	42"	1050
91+00	101+12	1012'	42"	1150
JUNCTION AT HUGHES ALLEY			MH NO. 4	
101+20	105+00	380'	33"	1000
105+00	109+00	400'	33"	900
109+00	115+98	698'	33"	850
HUGHES ALLEY LATERAL SUMMARY				
0+08	1+10	102'	30"	1150
TYLER ST LATERAL SUMMARY				
0+10	1+10	100'	42"	1050



PROFILE OF N SIDE LATERAL



PLAN



NOTE:
T.B.M.
RAILROAD SPIKE IN RR#25333-J
LOCATED IN DIVIDER ON MAGNOLIA
AVENUE ELEV. 712.61.

- ③ REMOVE EXISTING PIPE
- ④ PLUG EXISTING PIPE
- ⑤ REMOVE EXISTING INLET

PROFILE

- ① 41+50 @ 18" N INLET TYPE XII V=5'-4" TOP ELEV = 710.73 SEE PROFILE THIS SHEET 13'-18" RCP CL III
- ② CALL 684-0071 FOR TELE. CABLE LOCATING SERVICE.

REFERENCE	DESCRIPTION	APPROVED	DATE
	No Change		

- REVISIONS -
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PROJECT NO. 1-0-062

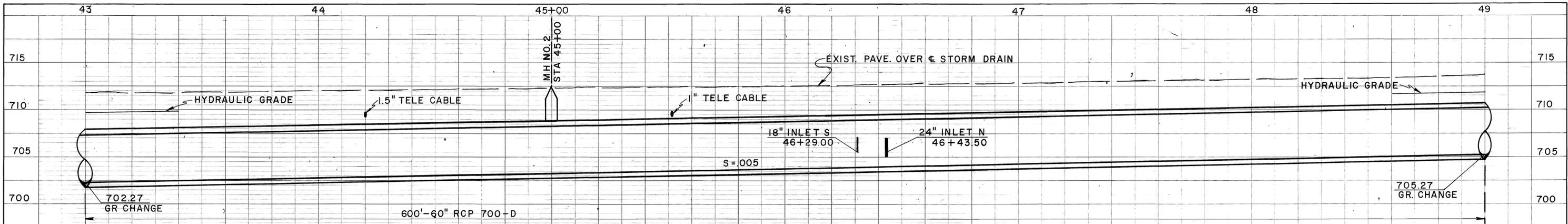
RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

LA SIERRA CHANNEL MAGNOLIA DRAIN STAGE II

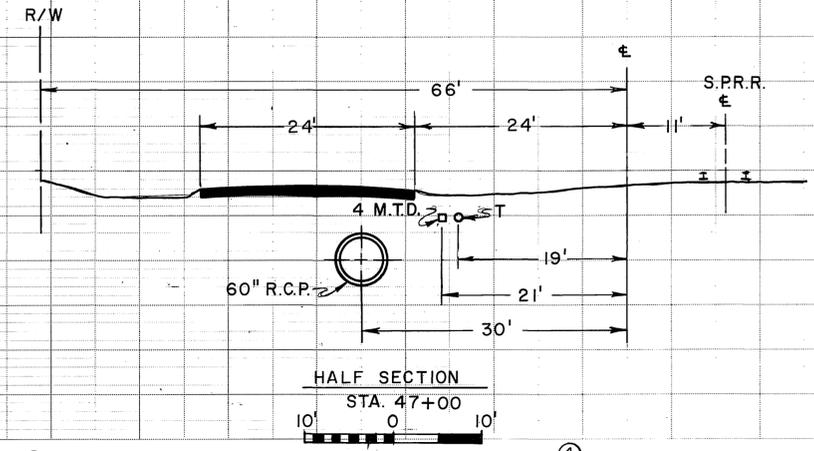
STA. 41+36 TO STA. 43+00

Designed: JH B JE	Sheet No 2
Drawn: DJ	Dwg No 1-259
Checked: DM	Date Drawn: 12-7-70

Approved: *[Signature]*
Chief Engineer / R.E. No 8822
Date: 1-1-71

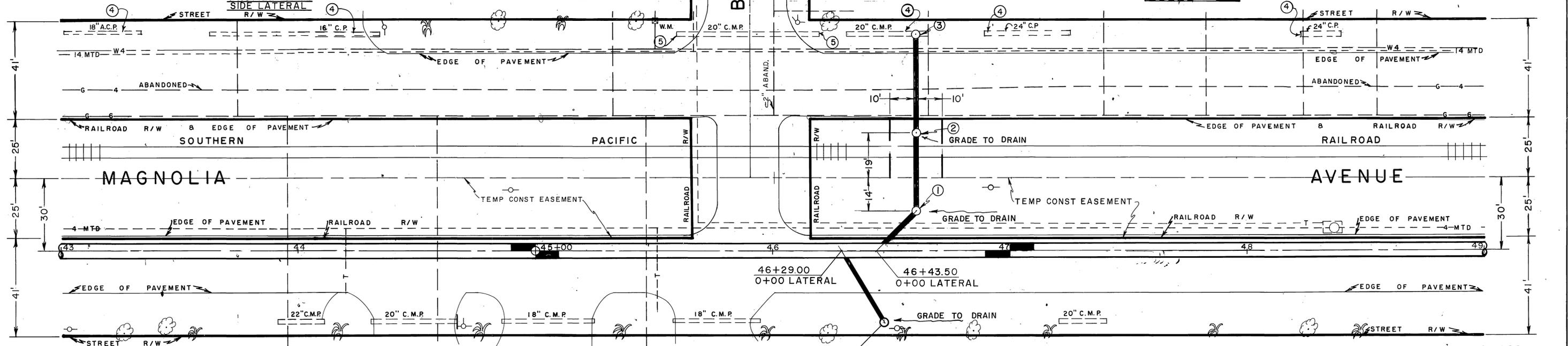
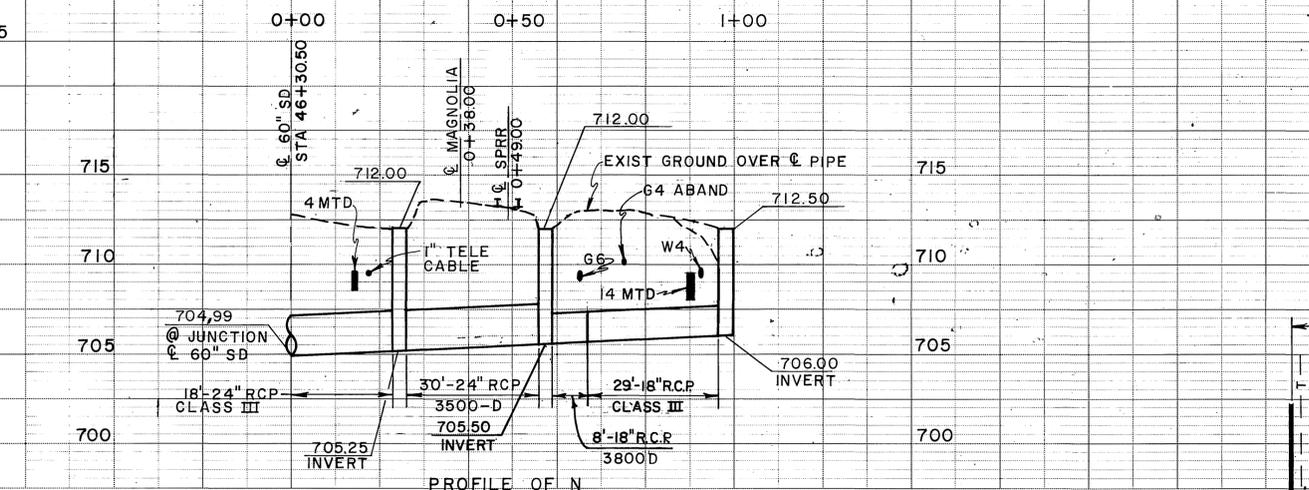


HYDRAULIC DATA
 Q=145 CFS
 V=7.4 FT/SEC



PROFILE

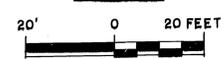
HALF SECTION
 STA. 47+00



- ① 46+60.5 @ 16' N INLET TYPE XII V=6'-9" TOP ELEV=712.00 18"-24" RCP CLASS III SEE PROFILE THIS SHEET
- ② 46+60.5 @ 49' N INLET TYPE XII V=6'-6" TOP ELEV=712.00 30'-24" RCP 3500-D SEE PROFILE THIS SHEET
- ③ 46+60.5 @ 91' N INLET TYPE IX V=6'-6" TOP ELEV=712.50 37'-18" RCP CLASS III SEE PROFILE THIS SHEET
- ④ REMOVE EXISTING PIPE
- ⑤ PLUG EXISTING PIPE

46+47 @ 30' S INLET TYPE IX V=4'-6" TOP ELEV=711.87 30'-18" RCP CLASS III

PLAN



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RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

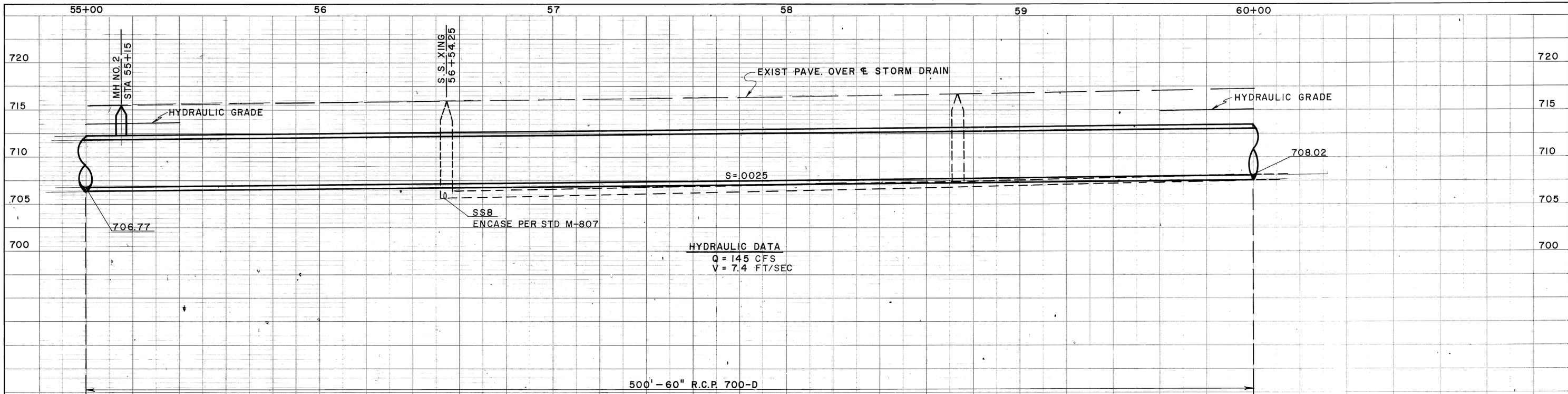
LA SIERRA CHANNEL MAGNOLIA DRAIN STAGE II

STA. 43+00 TO STA. 49+00

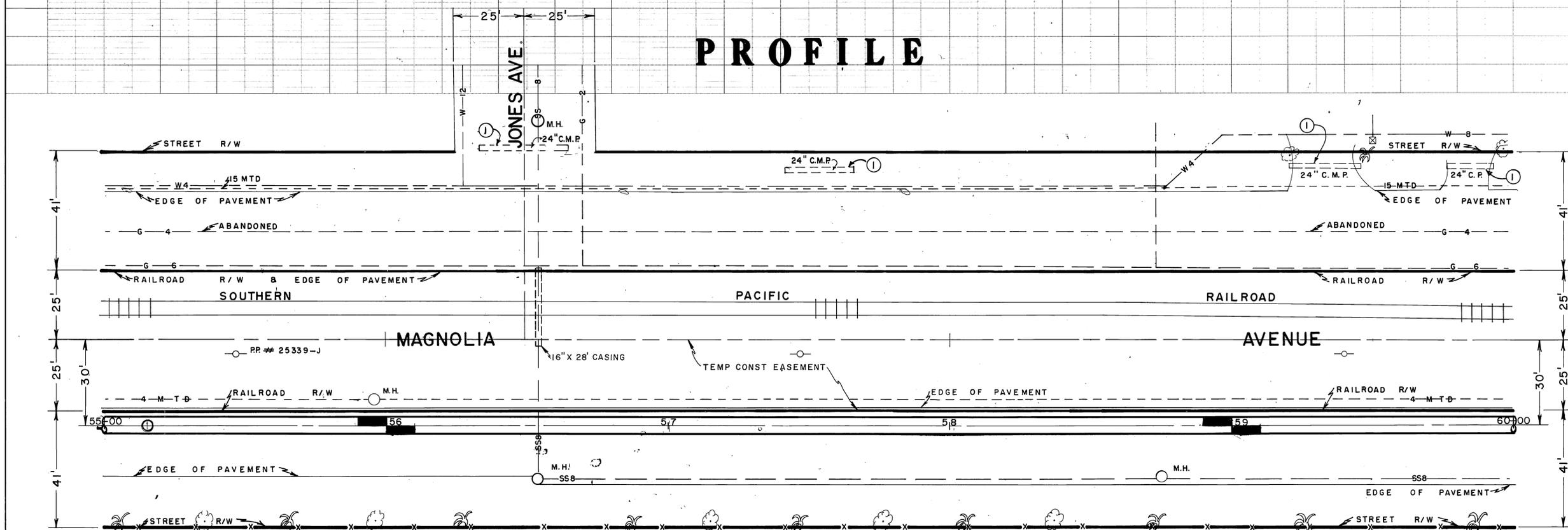
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	No Change		

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 Drawn: [Signature]
 Checked: DM
 Date Drawn: 6-23-71

- REVISIONS -
 AS BUILT



PROFILE



NOTE:
 T.B.M.
 RAILROAD SPIKE IN RR# 25339-J
 IN DIVIDER ON MAGNOLIA AVE.
 THIRD POLE WEST OF THE INTERSECTION
 OF MAGNOLIA AVE. AND POLK STREET.
 ELEV. 716.76

① REMOVE EXISTING PIPE

PLAN



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	No Change		

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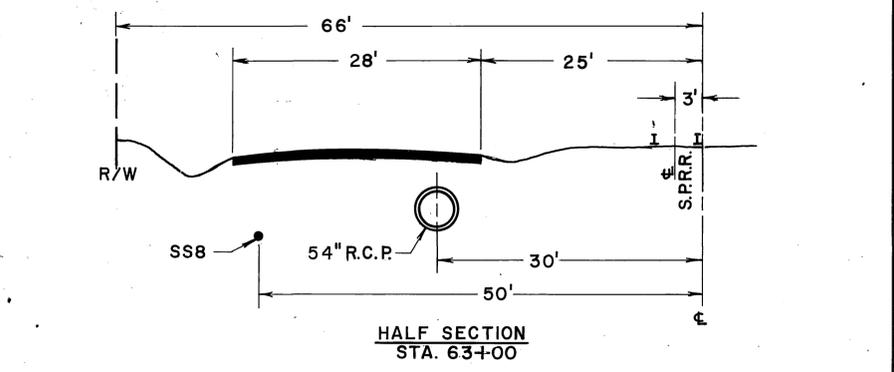
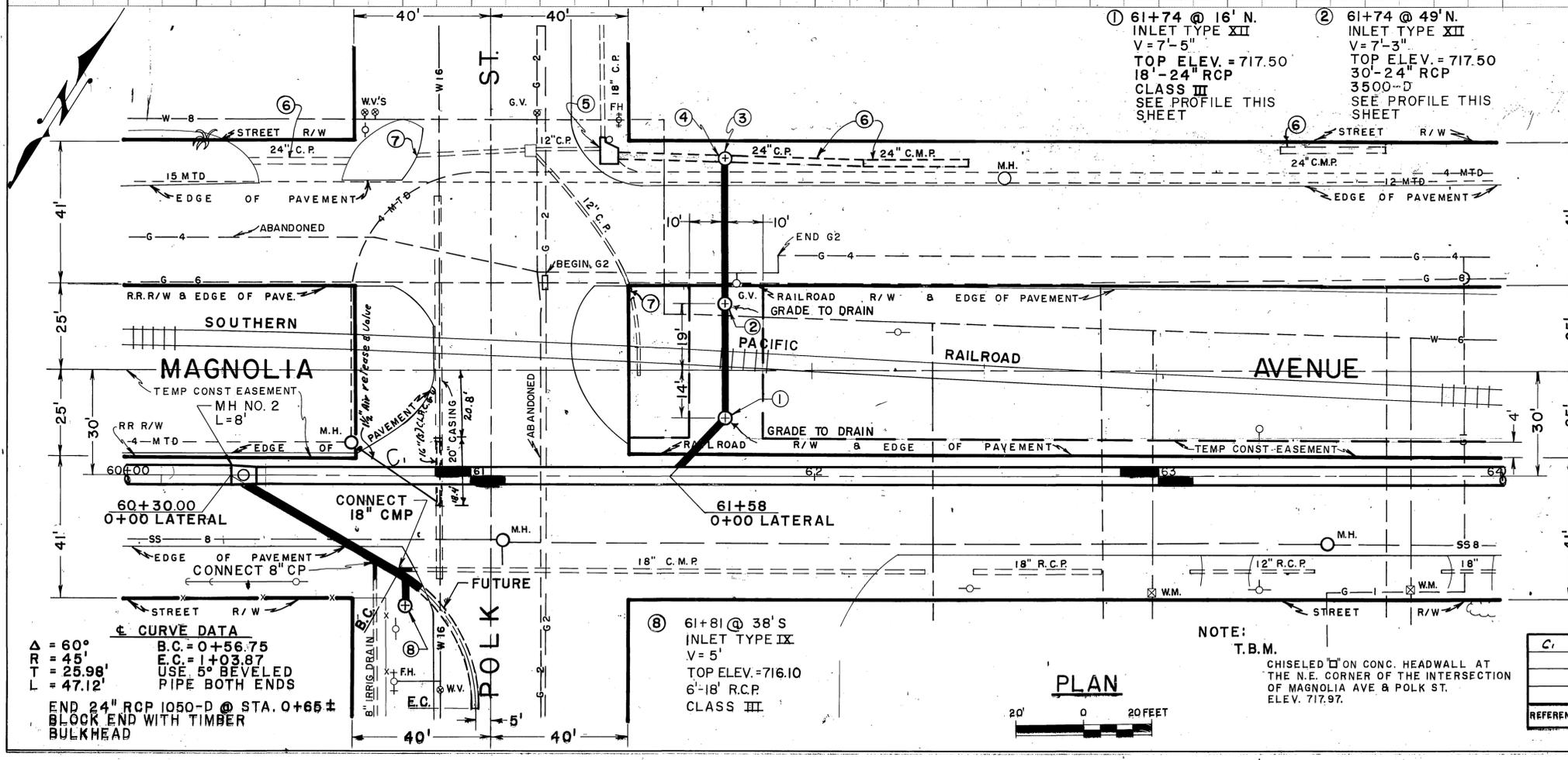
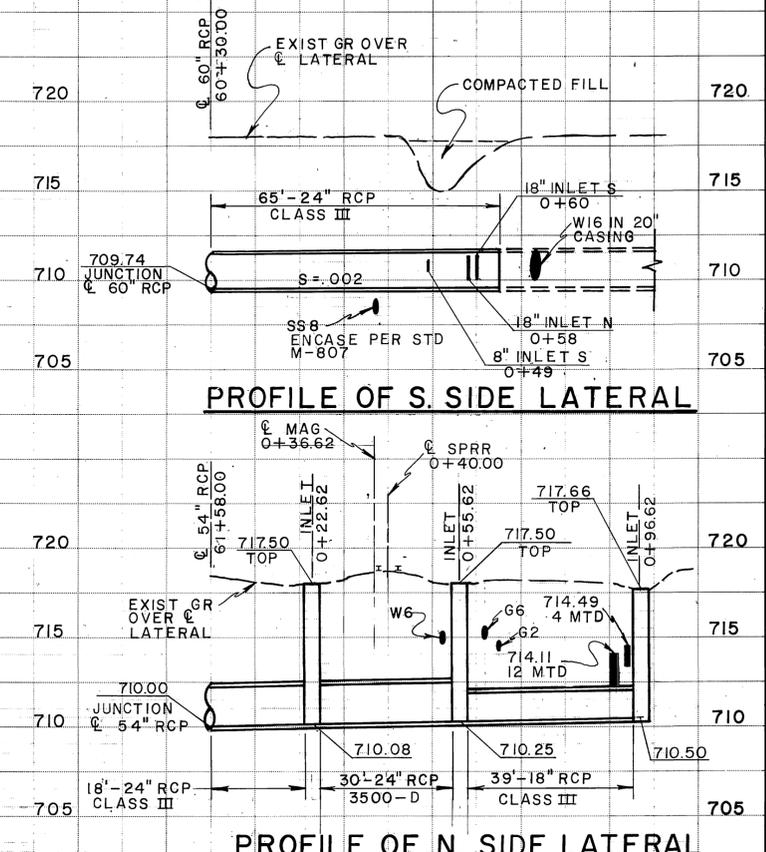
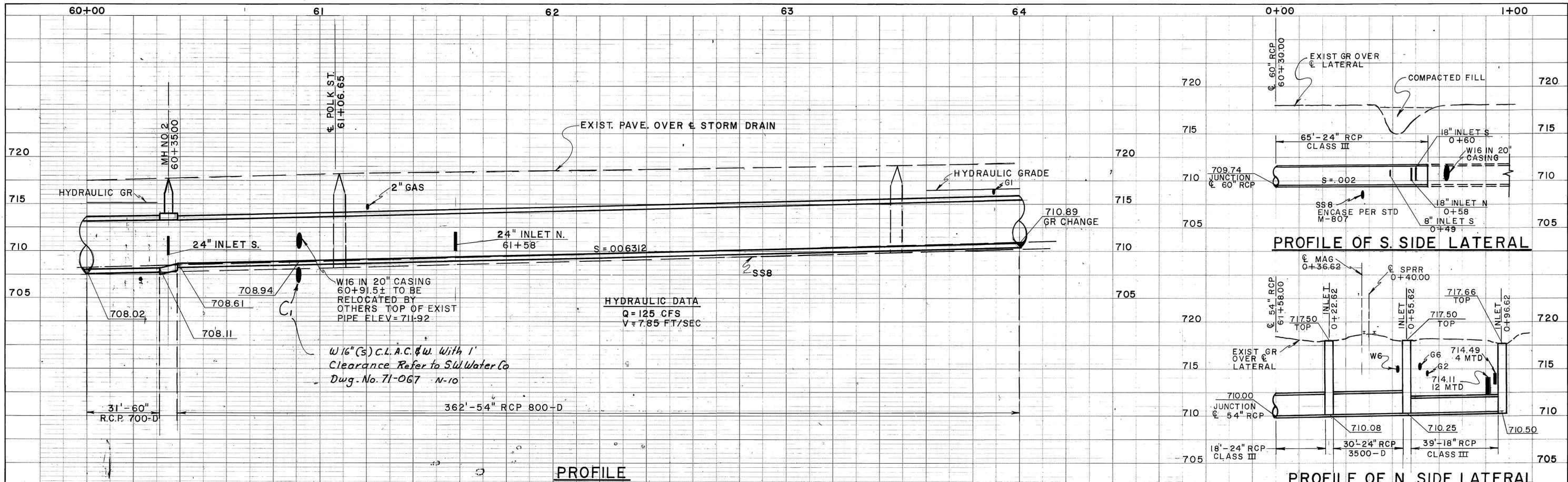
RIVERSIDE COUNTY FLOOD CONTROL
 AND
 WATER CONSERVATION DISTRICT

LA SIERRA CHANNEL
 MAGNOLIA DRAIN
 STAGE II

STA. 55+00 TO STA. 60+00

Designed: JH B JE	Sheet No: 5 of 5
Drawn: P L G	Dwg. No: 1-269
Checked: DM	Date Drawn: 7-6-71
Date: 8-1-71	

D-243



- ① 61+74 @ 16' N. INLET TYPE XII
 $V = 7'-5"$
 TOP ELEV. = 717.50
 18'-24" RCP
 CLASS III
 SEE PROFILE THIS SHEET
- ② 61+74 @ 49' N. INLET TYPE XII
 $V = 7'-3"$
 TOP ELEV. = 717.50
 30'-24" RCP
 3500-D
 SEE PROFILE THIS SHEET
- ③ 61+74 @ 91' N. INLET TYPE IX
 $V = 7'-2"$
 TOP ELEV. = 717.66 SEE PROFILE THIS SH.
 39'-18" RCP CL III
- ④ CONNECT 24" CP TO INLET.
- ⑤ - CUT AND PLUG 12" CP.
- ⑥ REMOVE EXISTING PIPE
- ⑦ PLUG EXISTING PIPE

CURVE DATA
 $\Delta = 60^\circ$
 $RT = 45'$
 $T = 25.98'$
 $L = 47.12'$

B.C. = 0+56.75
 E.C. = 1+03.87
 USE 5" BEVELED PIPE BOTH ENDS

END 24" RCP 1050-D @ STA. 0+65±
 BLOCK END WITH TIMBER BULKHEAD

⑧ 61+81 @ 38' S INLET TYPE IX
 $V = 5'$
 TOP ELEV. = 716.10
 6'-18" RCP CLASS III

C.	Changes by S.W. Water Co.	DATE

PROJECT NO. 1-0-062

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

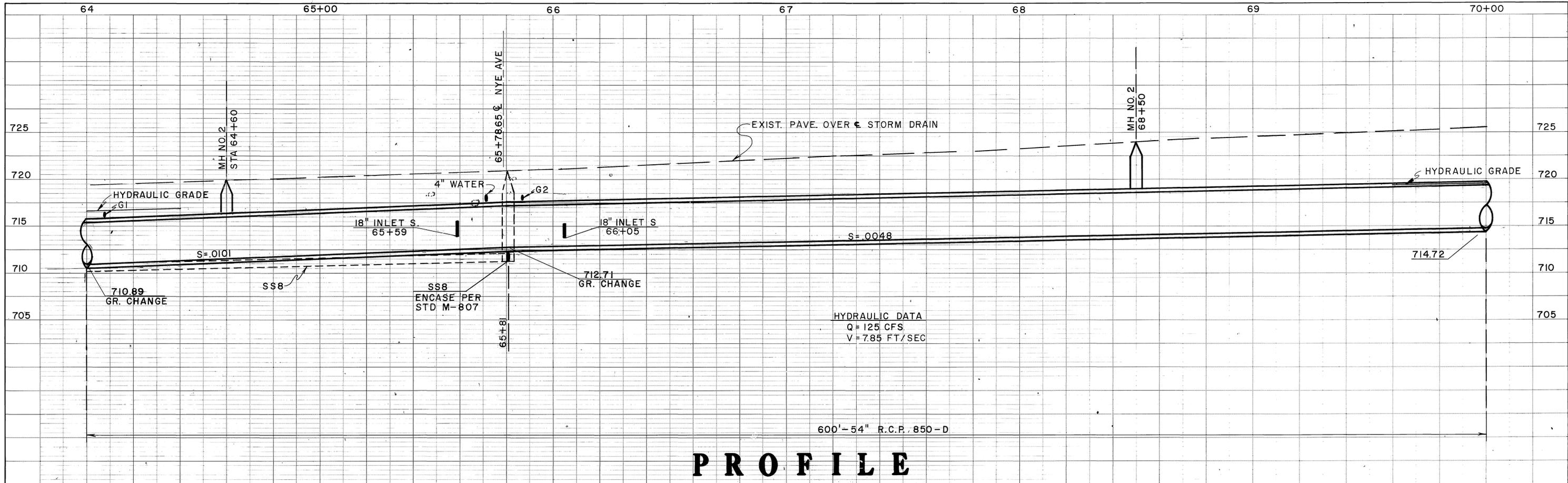
LA SIERRA CHANNEL
 MAGNOLIA DRAIN
 STAGE II

STA. 60+00 TO STA. 64+00

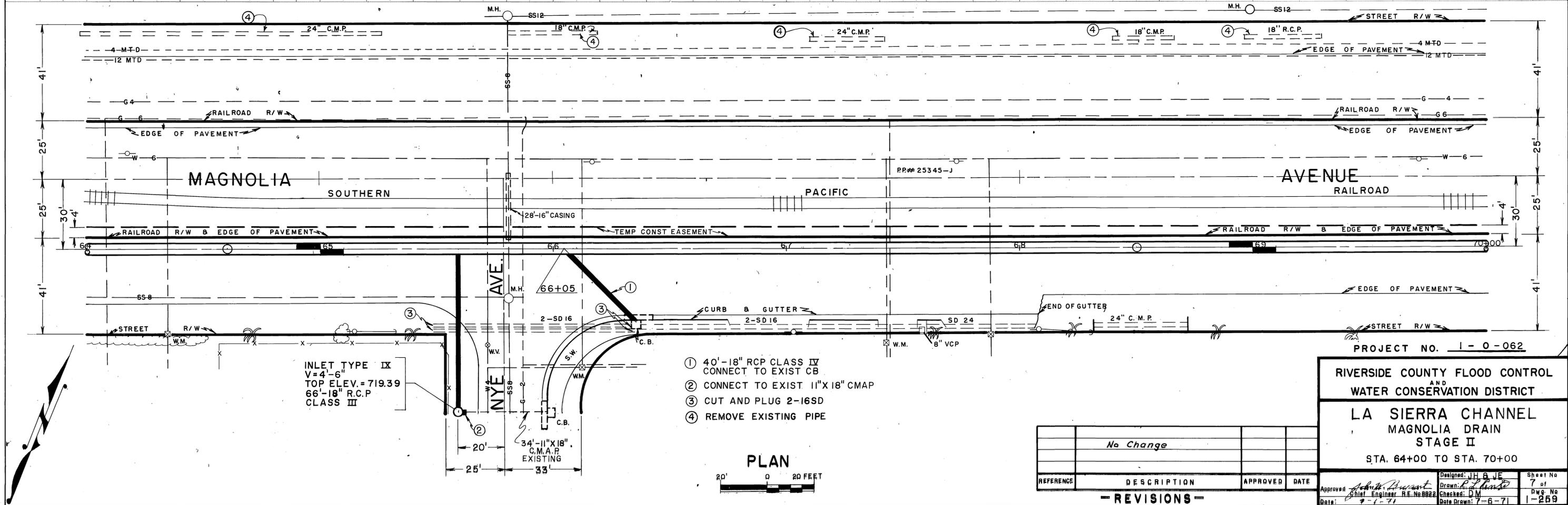
Designed: JH & JE
 Drawn: J. J. J. [Signature]
 Checked: DM [Signature]
 Date: 7-2-71

Sheet No. 6 of 6
 Dwg. No. 1-259

REVISIONS AS BUILT



PROFILE



INLET TYPE IX
 V=4'-6"
 TOP ELEV. = 719.39
 66'-18" R.C.P.
 CLASS III

- ① 40'-18" RCP CLASS IV CONNECT TO EXIST CB
- ② CONNECT TO EXIST 11"X 18" CMAP
- ③ CUT AND PLUG 2-16SD
- ④ REMOVE EXISTING PIPE

PLAN



REFERENCE	DESCRIPTION	APPROVED	DATE
	No Change		

- REVISIONS -
 AS BUILT

PROJECT NO. 1-0-062

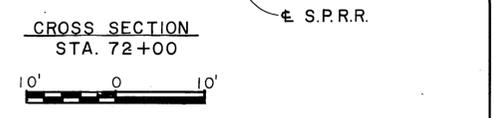
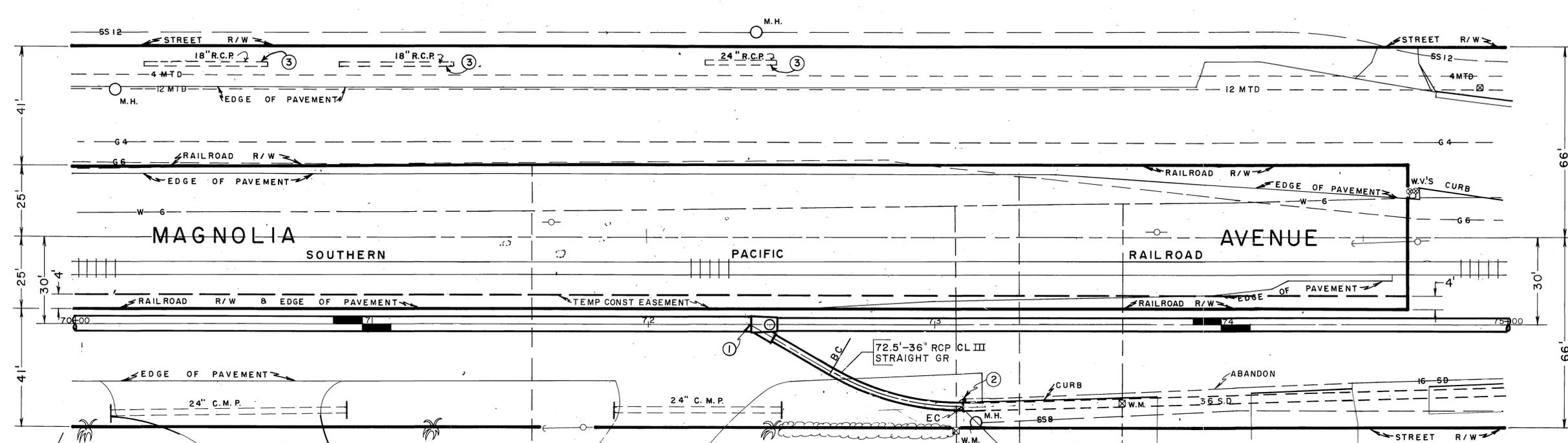
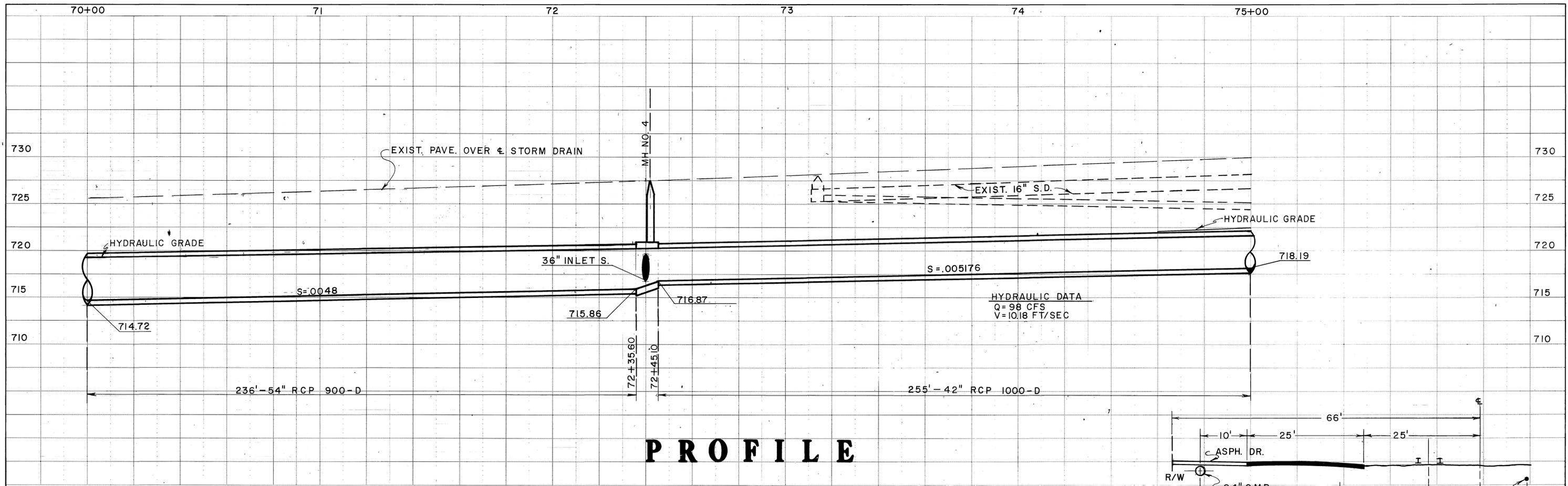
RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

LA SIERRA CHANNEL MAGNOLIA DRAIN STAGE II

STA. 64+00 TO STA. 70+00

Designed: J.H. JE	Sheet No: 7 of 7
Drawn: P. L. Hunt	Dwg. No: 1-269
Checked: B.W.	Date Drawn: 7-6-71
Approved: [Signature]	Date: 7-6-71

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① 72+35.50
M.H. NO. 4
A=30°
B=36"
C=9.6'
D₁=42'
D₂=54"
E=9.6'
L=9.5'
ELR=716.79
ELS=715.86

- ② CUT AND PLUG 16SD.
- ③ REMOVE EXISTING PIPE

PLAN

20' 0 20 FEET

36" RCP CURVE DATA
 $\Delta = 31^\circ - 13' - 15''$
 $R = 90'$
 $T = 25.15'$
 $L = 49.04'$
 $B.C. = 0 + 32.53$
 $E.C. = 0 + 81.67$
 USE 2.5° BEVELLED PIPE, BOTH ENDS

REFERENCE	DESCRIPTION	APPROVED	DATE
	No Change		

- REVISIONS -
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PROJECT NO. **1-0-062**

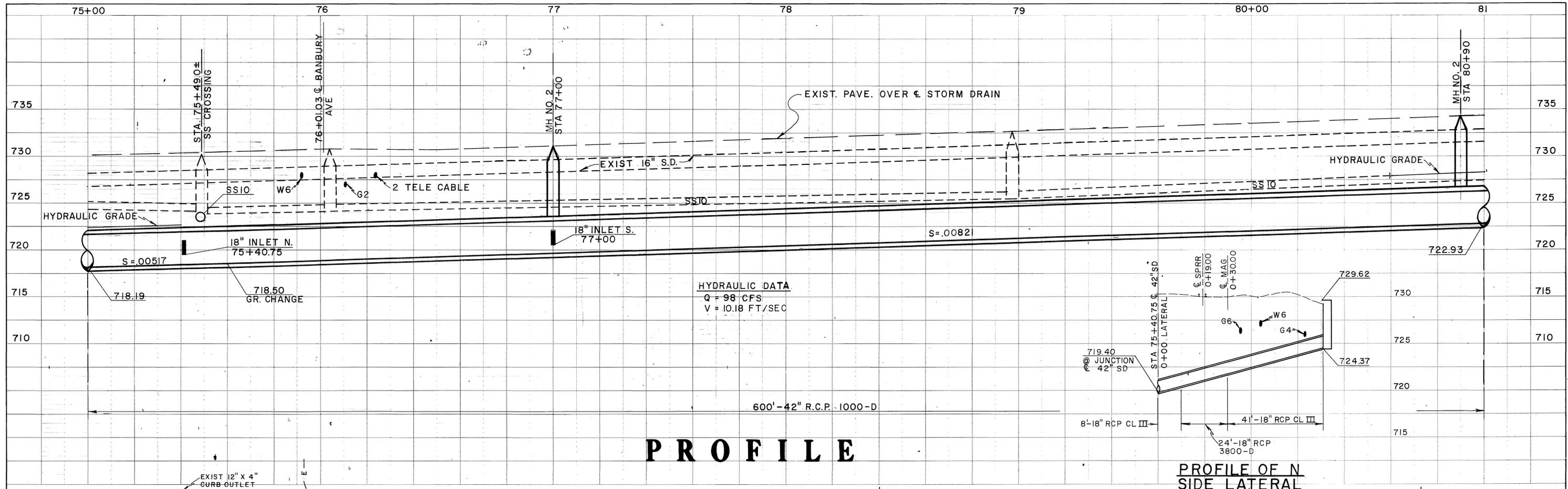
RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

LA SIERRA CHANNEL
MAGNOLIA DRAIN
STAGE II

STA. 70+00 TO STA. 75+00

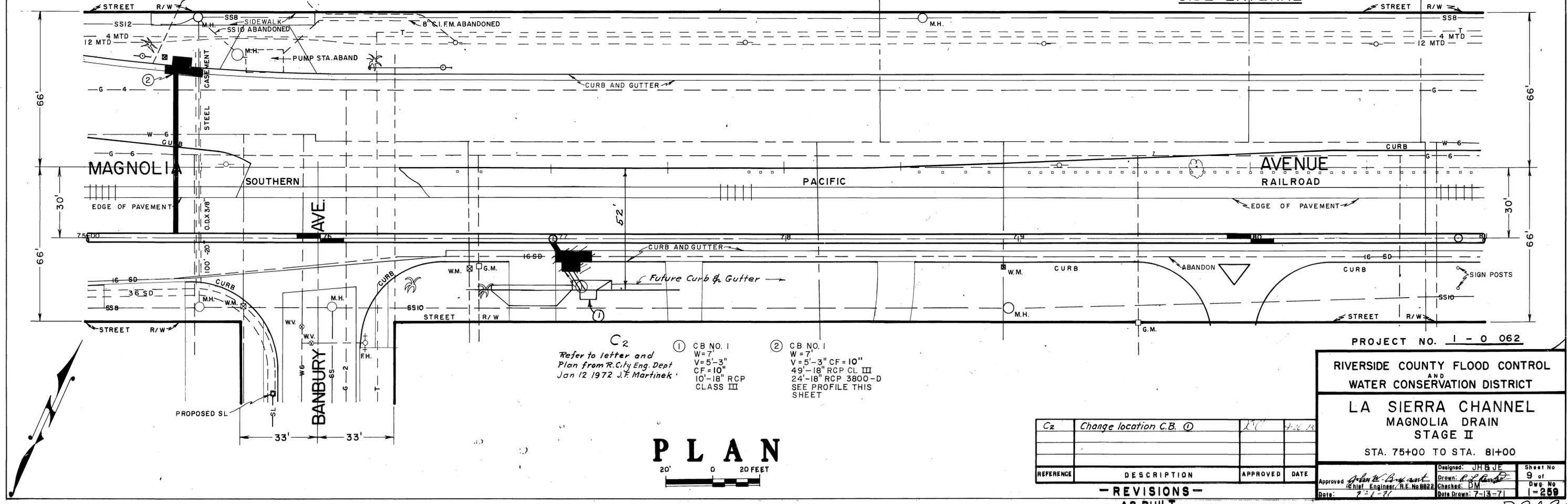
Designed: JH & JE
Drawn: R. L. Anderson
Checked: DM
Date: 7-1-71

Sheet No. 8 of 8
Dwg. No. 1-259
Date Drawn: 7-7-71



PROFILE

PROFILE OF N SIDE LATERAL



PLAN

PROJECT NO. 1 - 0 062

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

LA SIERRA CHANNEL MAGNOLIA DRAIN STAGE II

STA. 75+00 TO STA. 81+00

Designed: JHB/JE	Sheet No. 9 of 9
Drawn: R. J. [unclear]	Dwg. No. 1-259
Checked: DM	Date Drawn: 7-13-71

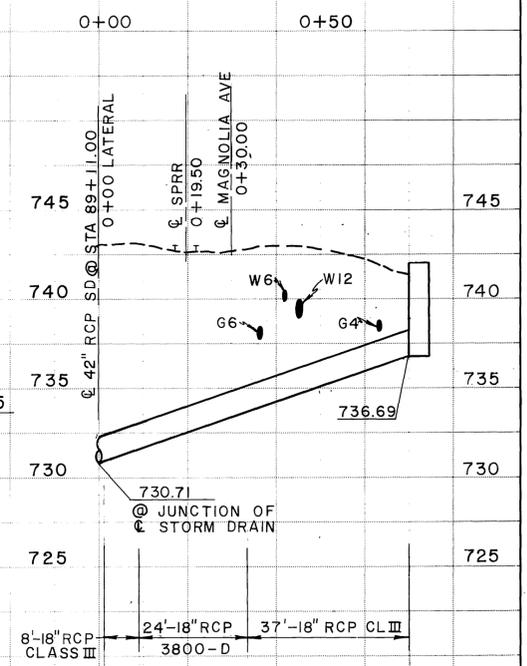
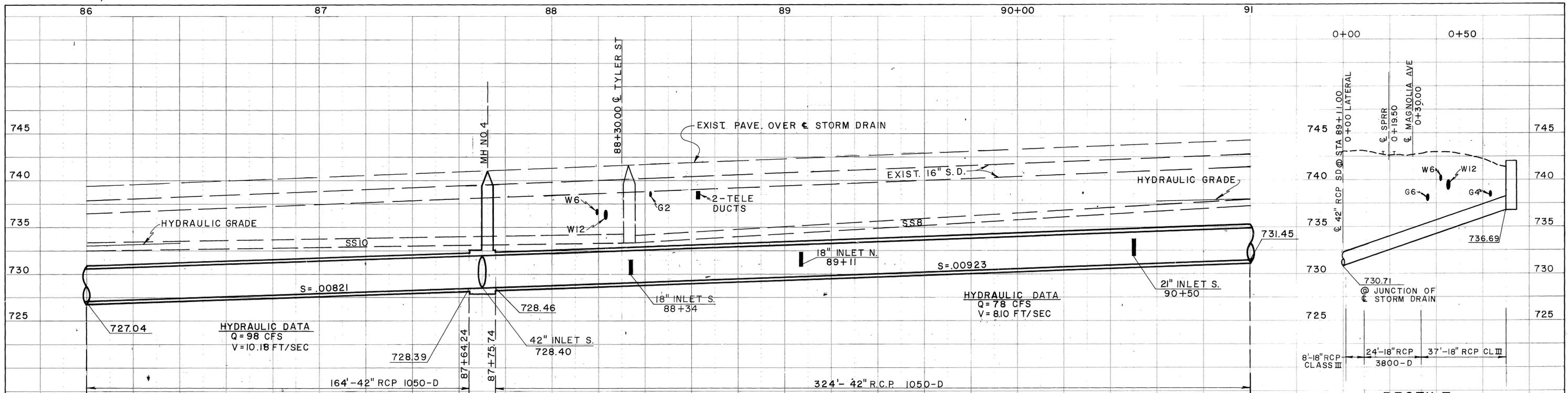
Approved: [Signature] Chief Engineer, R.E. No 8822

Date: 7-1-71

REFERENCE	DESCRIPTION	APPROVED	DATE
C2	Change location C.B. ①	[Signature]	7-1-71

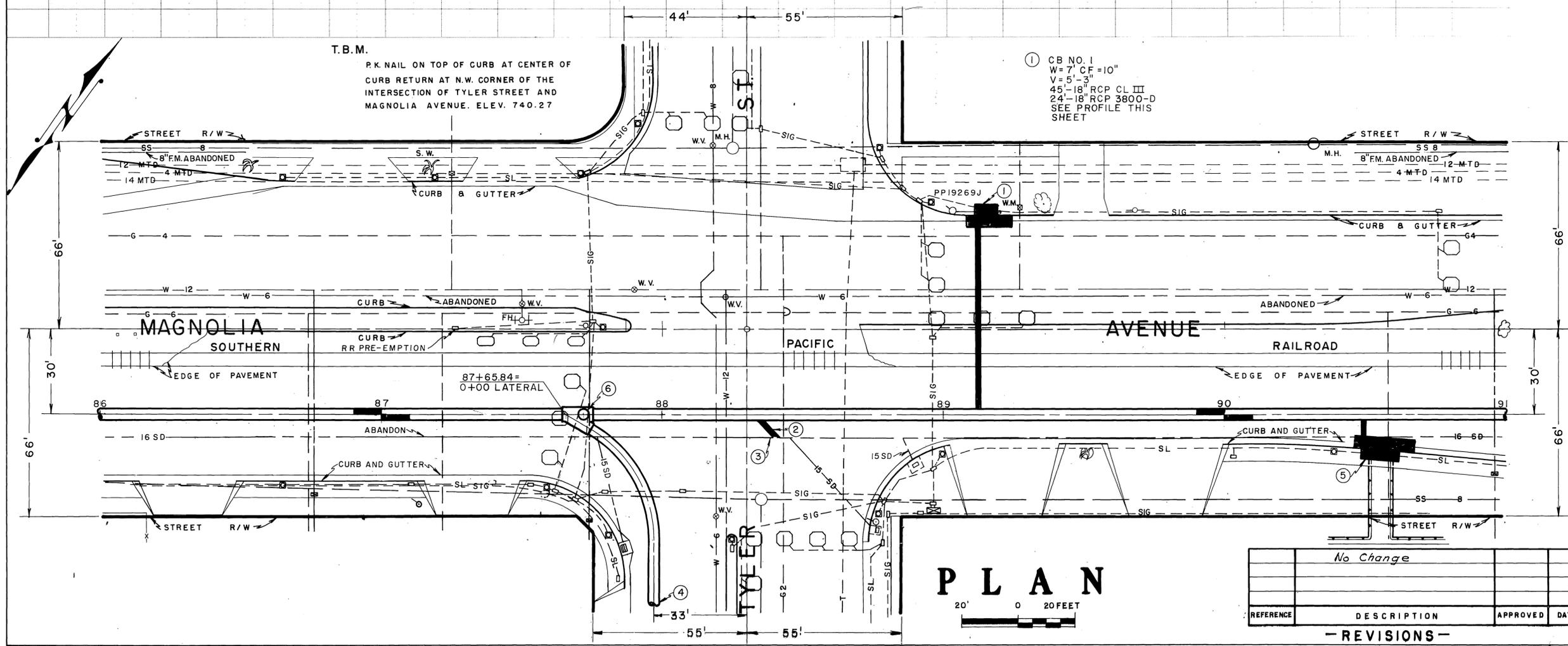
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D-243



PROFILE OF N SIDE LATERAL

PROFILE



PLAN



- ① CB NO. 1
W=7' CF=10"
V=5'-3"
45'-18" RCP CL III
24'-18" RCP 3800-D
SEE PROFILE THIS SHEET
- ② CONNECT 16SD WITH ±14' OF 18" RCP CLASS IV.
- ③ CUT AND PLUG 16SD.
- ④ 42" LATERAL SEE SHEET 18.
- ⑤ CB NO. 1
W=14' CF=10"
V=5'-3"
14'-21" RCP CL III
- ⑥ MH NO. 4 - STA 87+65.84
A=30°
B=42°
C=10°
D₁=42"
D₂=42"
E=9.9'
L=11.5'
ELR=728.42
ELS=728.40

PROJECT NO. 1-0-062

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

LA SIERRA CHANNEL
MAGNOLIA DRAIN
STAGE II

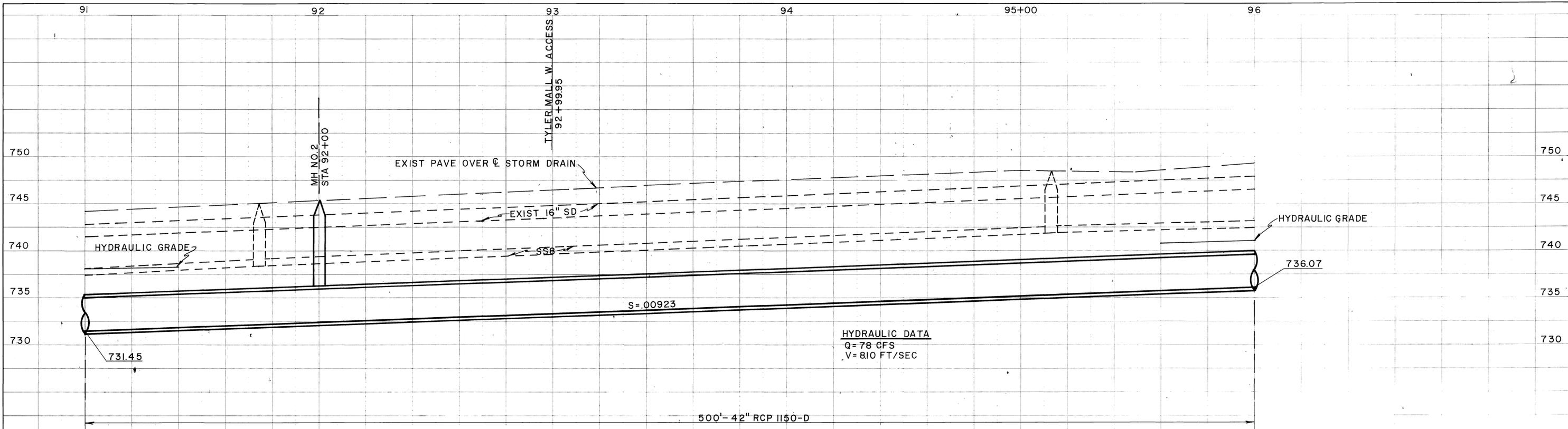
STA. 86+00 TO STA. 91+00

REFERENCE	DESCRIPTION	APPROVED	DATE
	No Change		

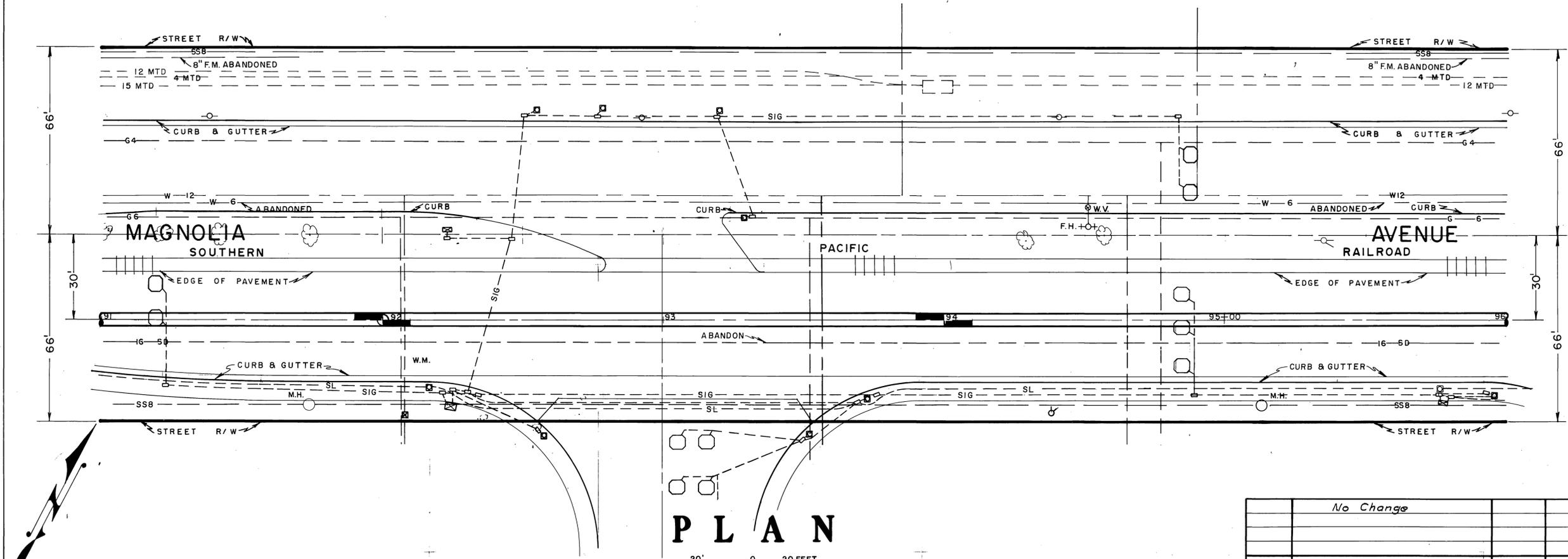
Designed: JH R JE
Drawn: R L R D
Checked: DM
Date: 7-2-71
Date Drawn: 7-2-71

11 of 11
Dwg. No. 1-259

REVISIONS AS BUILT



PROFILE



PLAN

REFERENCE	DESCRIPTION	APPROVED	DATE
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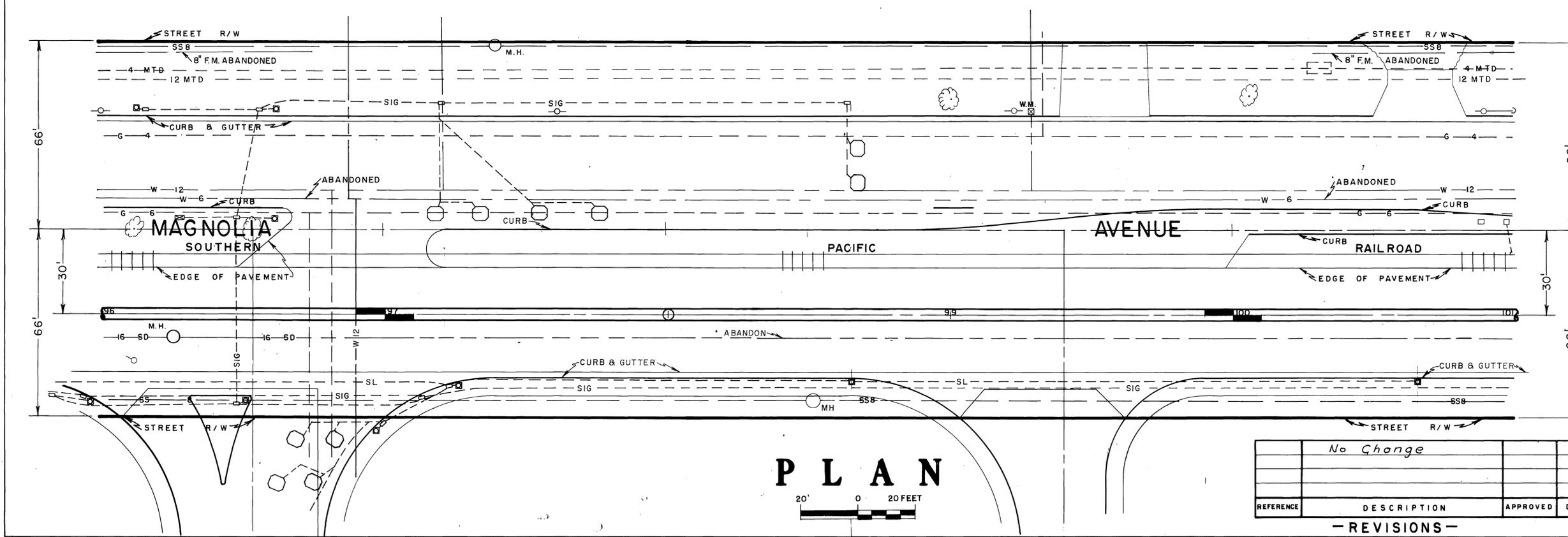
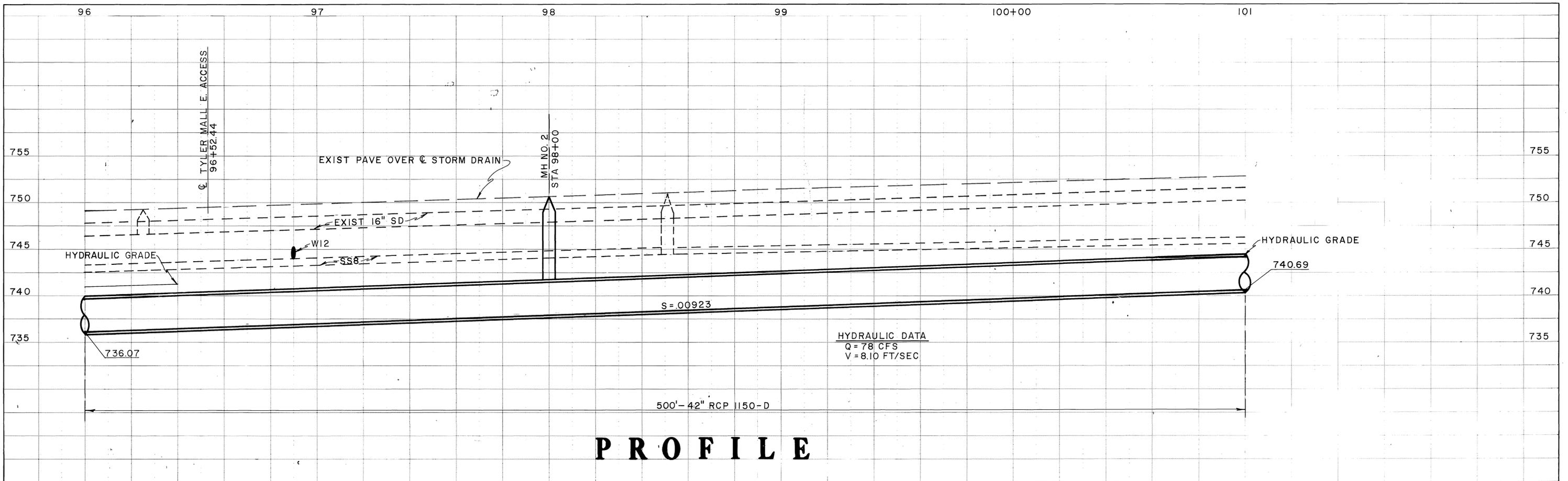
PROJECT NO. 1 - 0 - 062

RIVERSIDE COUNTY FLOOD CONTROL
AND
WATER CONSERVATION DISTRICT

LA SIERRA CHANNEL
MAGNOLIA DRAIN
STAGE II
STA 91+00 TO STA 96+00

Approved: <i>[Signature]</i> Chief Engineer R.E. No 8822	Designed: JH & JE Checked: DM	Sheet No 12 of Dwg. No 1-259
Date: 9-1-71	Date Drawn: 7-16-71	

D-243

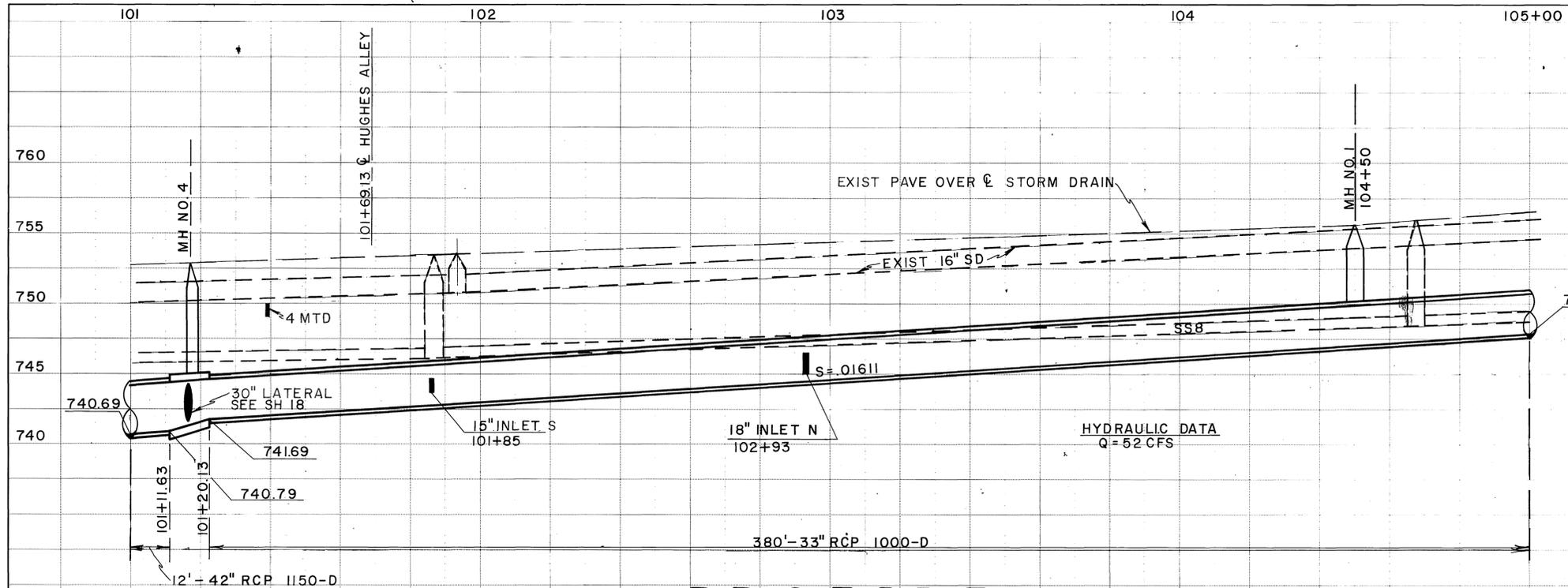


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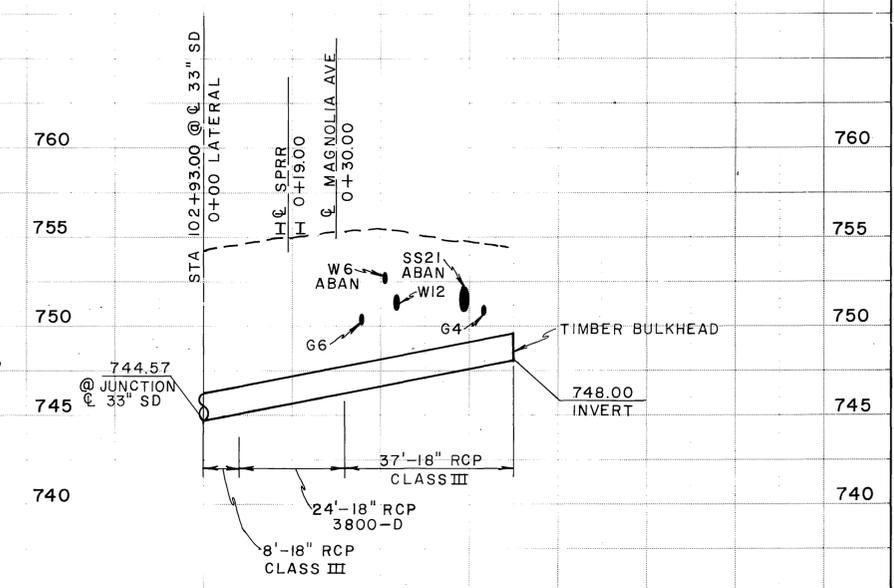
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PROJECT NO. 1 - 0 062
 RIVERSIDE COUNTY FLOOD CONTROL
 AND
 WATER CONSERVATION DISTRICT
 LA SIERRA CHANNEL
 MAGNOLIA DRAIN
 STAGE II
 STA 96+00 TO STA 101+00
 Designed: JH & JE
 Drawn: P. L. [Signature]
 Checked: DM
 Date Drawn: 7-19-71
 Sheet No. 13 of 1-259
 Approved: [Signature] Chief Engineer, R.E. No 9822
 Date: 9-1-71

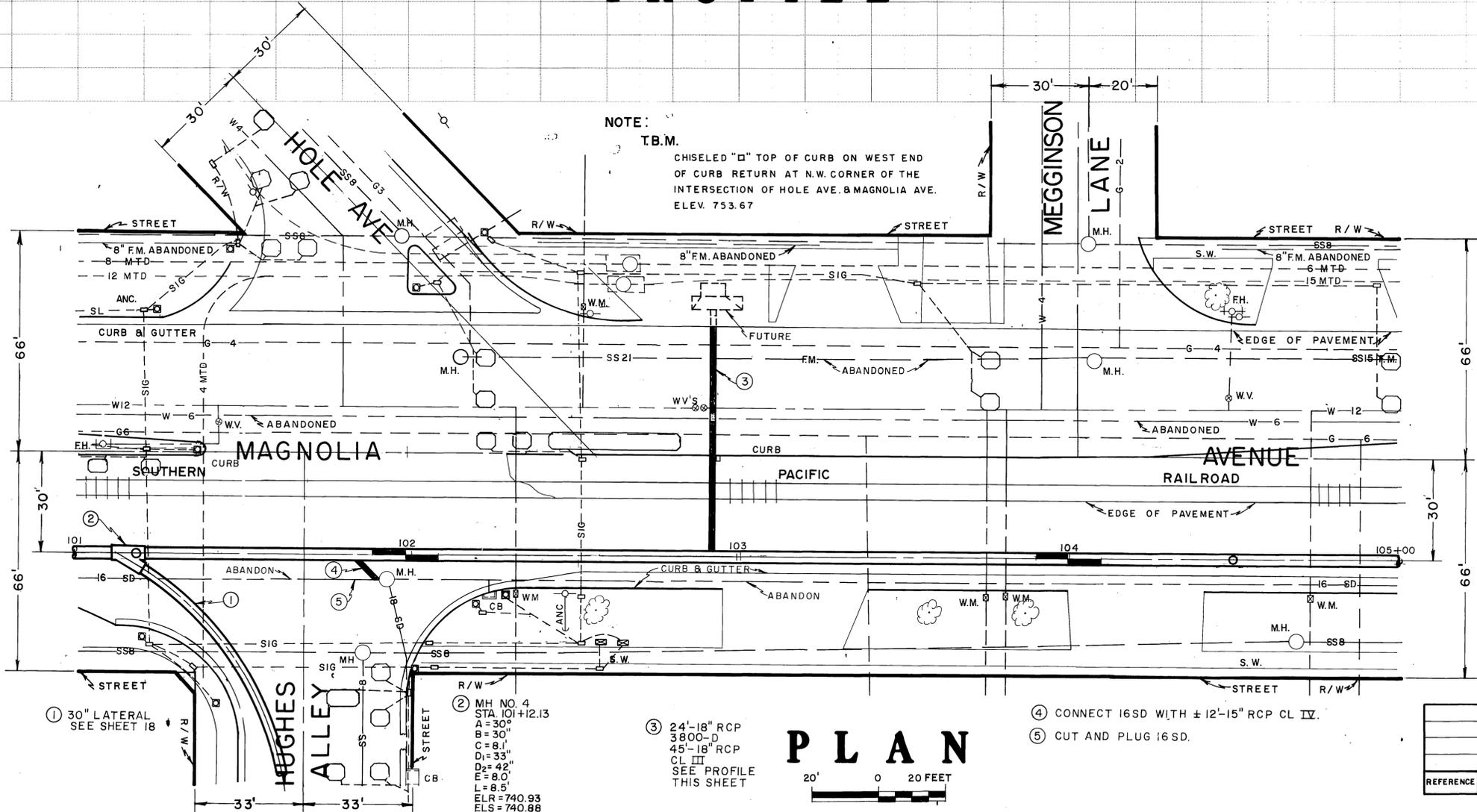
D-243



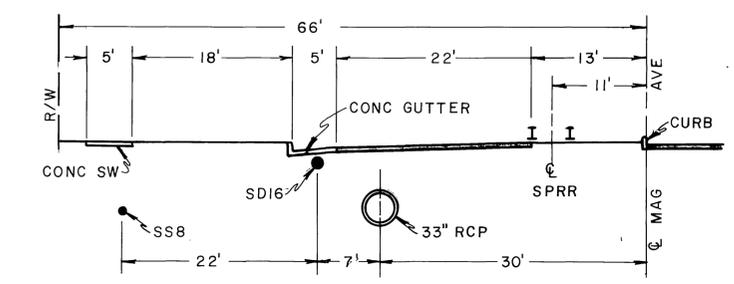
PROFILE



PROFILE OF N. SIDE LATERAL



PLAN



HALF SECTION

STA 103+50



PROJECT NO. 1-0-062

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

LA SIERRA CHANNEL MAGNOLIA DRAIN STAGE II

STA 101+00 TO STA 105+00

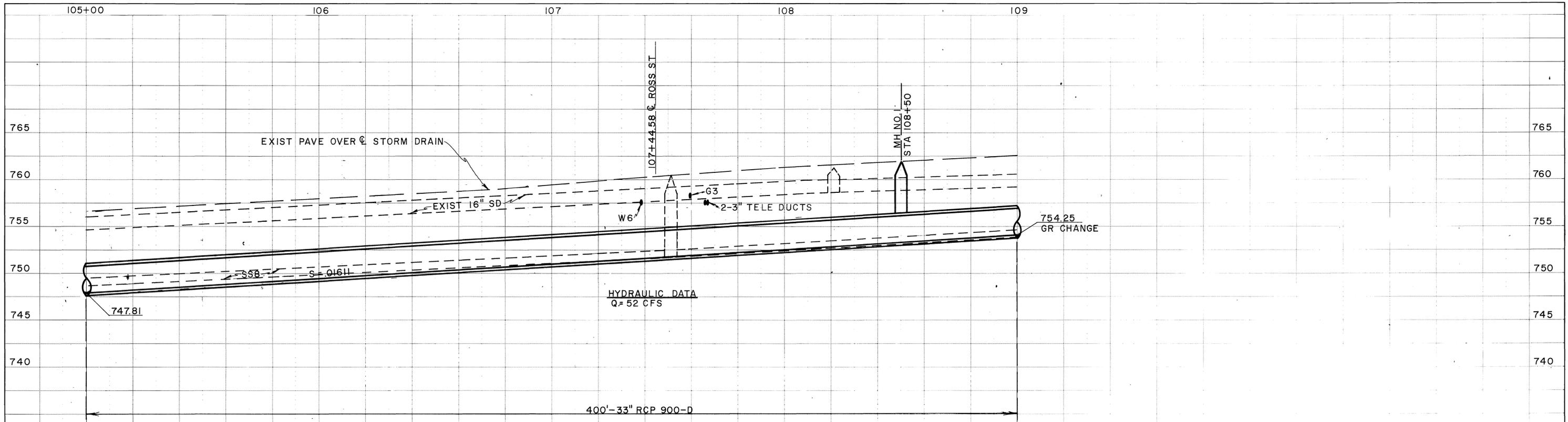
Designed: JH & JE	Sheet No. 14 of 14
Drawn: DJ	Dwg. No. 1-259
Checked: DM	Date Drawn: 6-30-71
Approved: <i>[Signature]</i>	Date: 7-1-71

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	No Change		

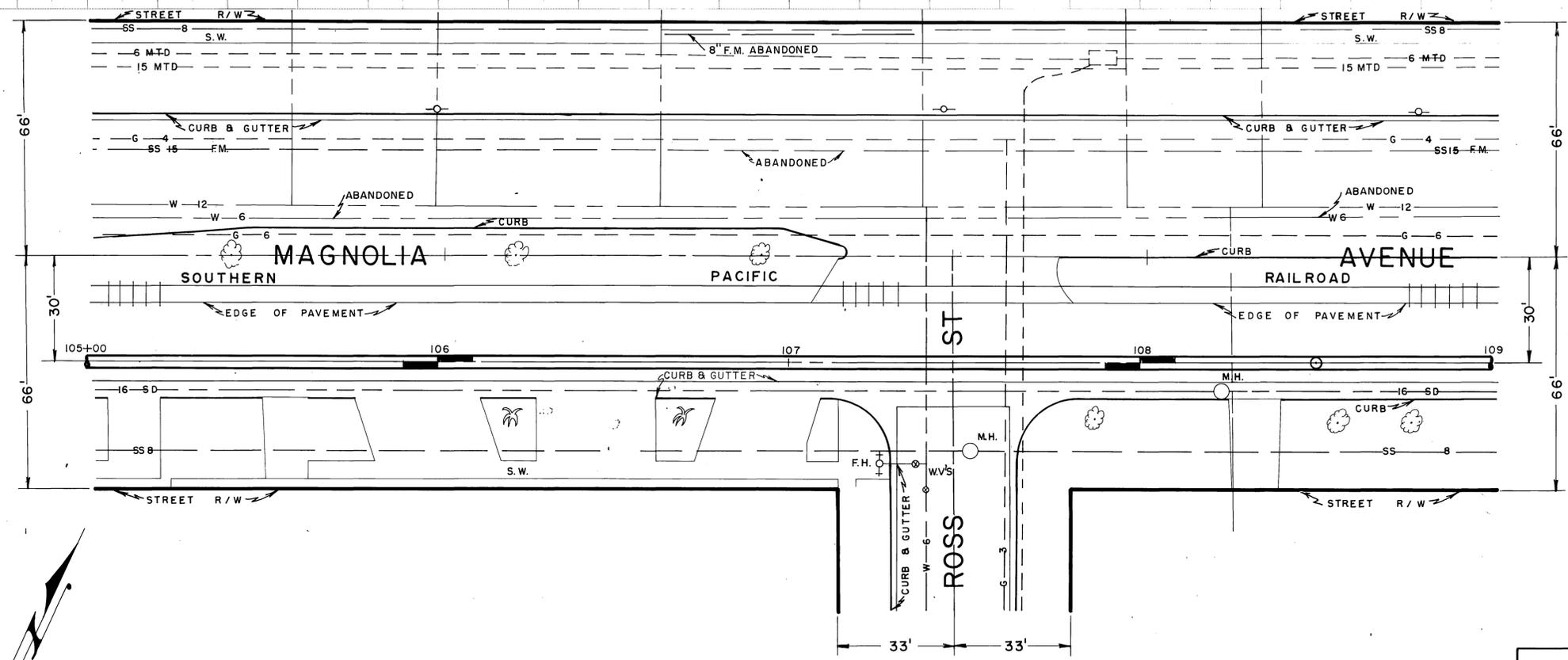
- REVISIONS -
AS BUILT

- ① 30" LATERAL SEE SHEET 18
- ② MH NO. 4 STA 101+12.13
A = 30"
B = 30"
C = 8.1"
D₁ = 33"
D₂ = 42"
E = 8.0"
L = 8.5'
ELR = 740.93
ELS = 740.88
- ③ 24'-18" RCP 3800-D
45'-18" RCP CL III
SEE PROFILE THIS SHEET
- ④ CONNECT 16SD WITH ± 12'-15" RCP CL IV.
- ⑤ CUT AND PLUG 16SD.





PROFILE



PLAN

20' 0 20 FEET

REFERENCE	DESCRIPTION	APPROVED	DATE
	No Change		

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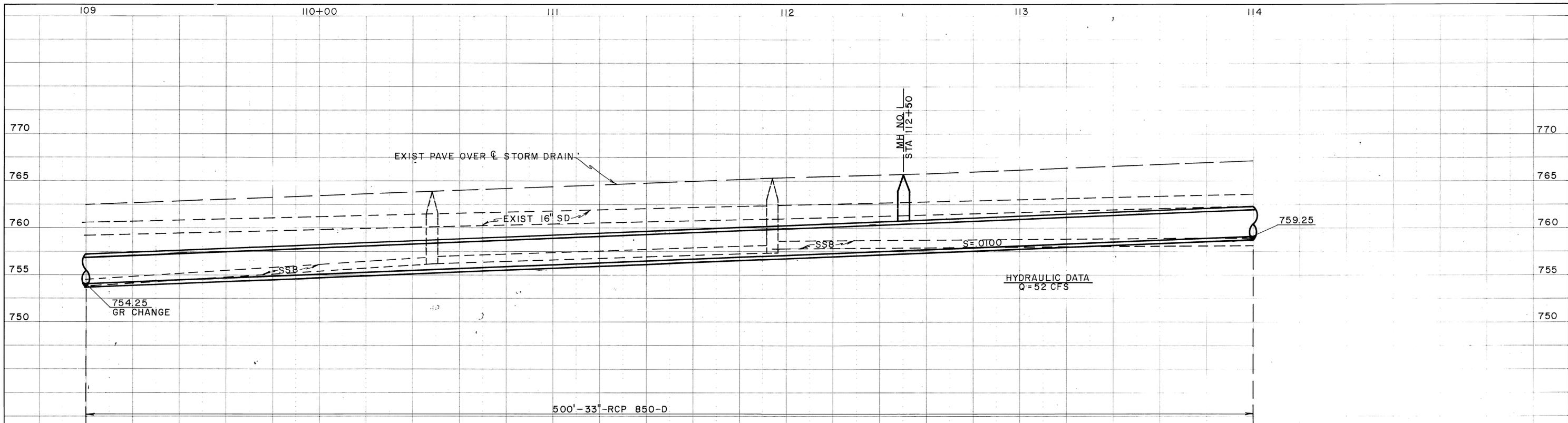
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RIVERSIDE COUNTY FLOOD CONTROL
AND
WATER CONSERVATION DISTRICT

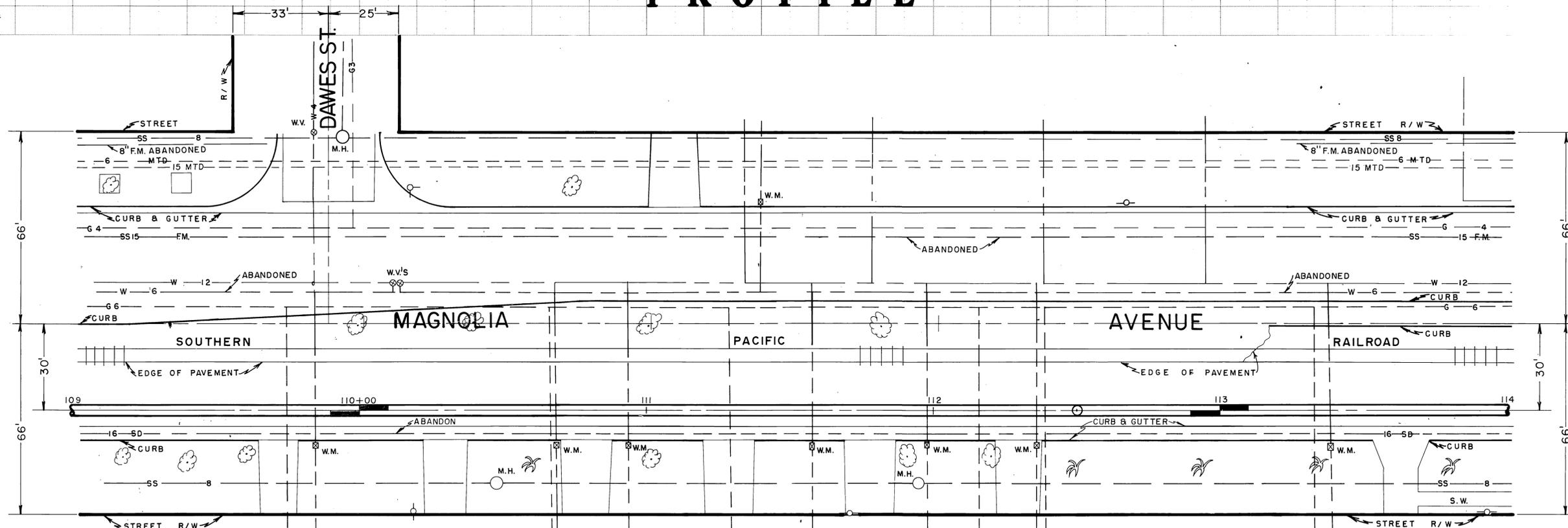
LA SIERRA CHANNEL
MAGNOLIA DRAIN
STAGE II

STA 105+00 TO STA 109+00

Designed: JH & JE	Sheet No. 15 of 1
Drawn: R. L. [Signature]	Dwg. No. 1-259
Checked: DM	Date Drawn: 7-21-71
Approved: [Signature]	Date: 7-1-71



PROFILE



PLAN



REFERENCE	DESCRIPTION	APPROVED	DATE
	No Change		

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PROJECT NO. 1-0-062

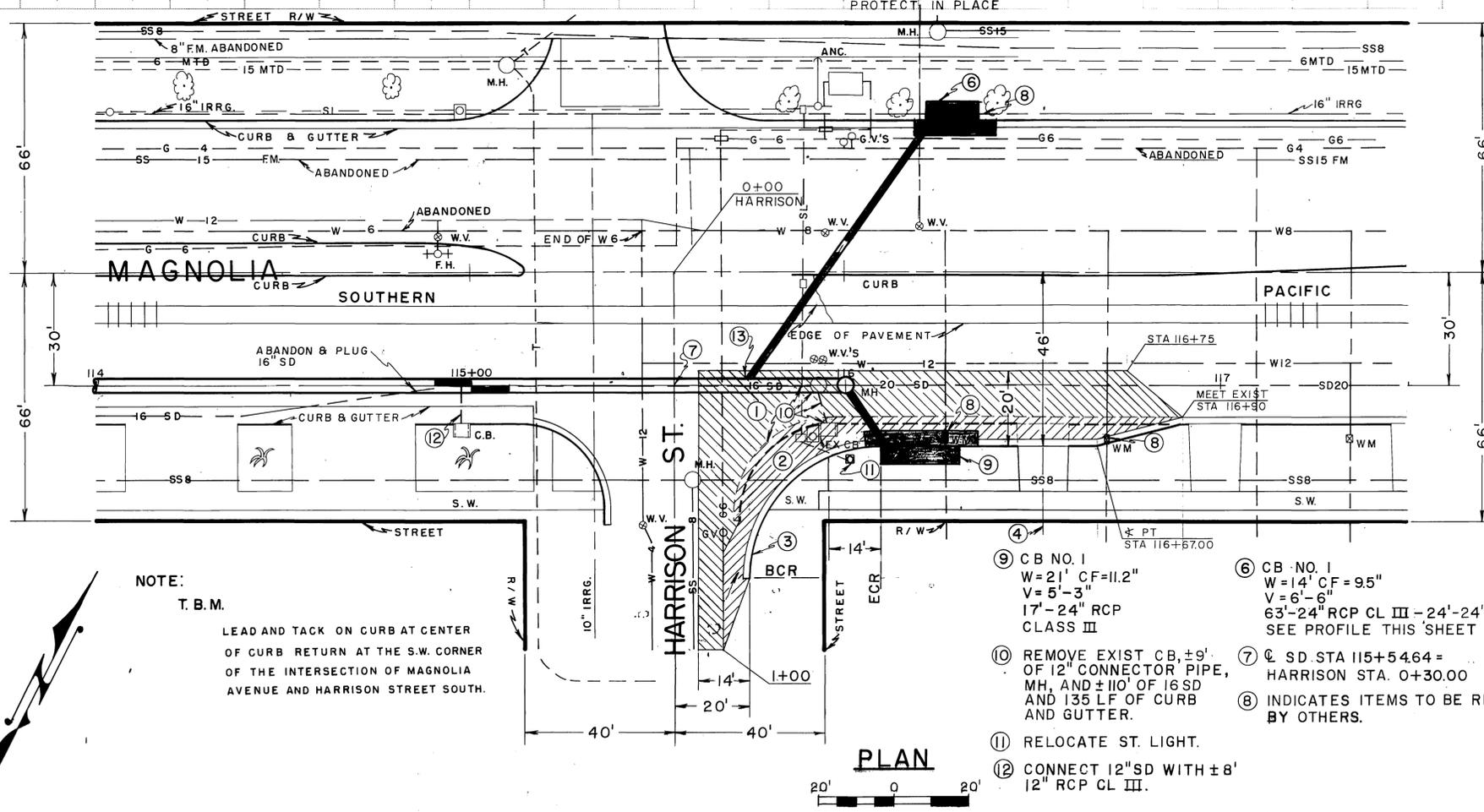
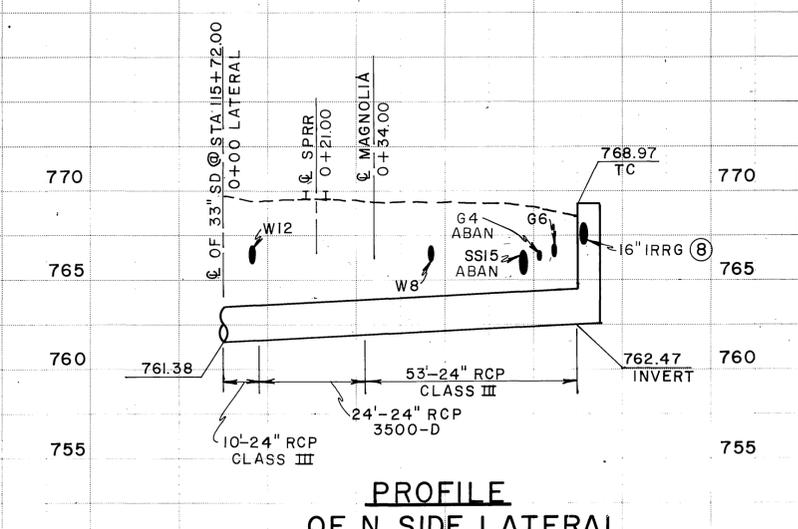
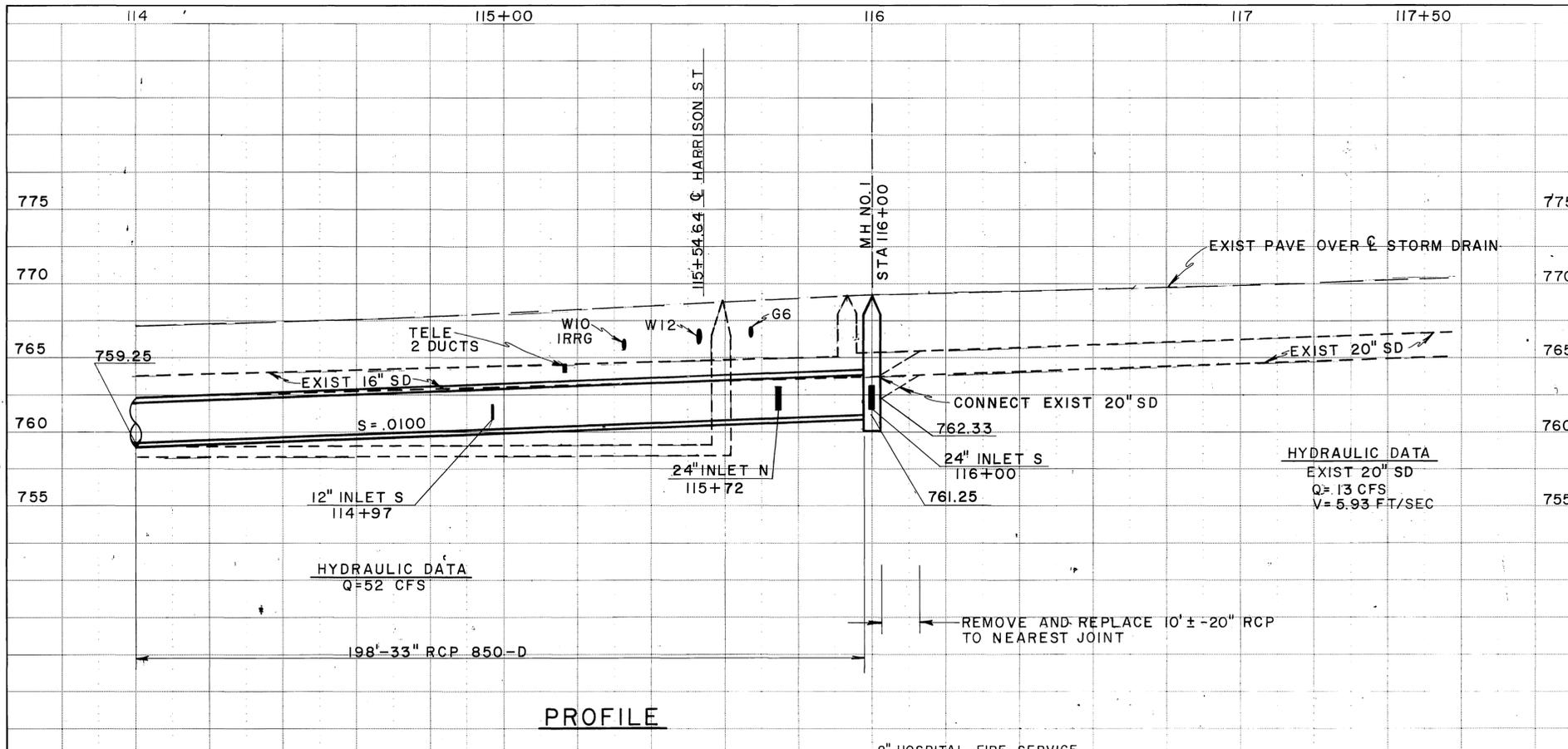
RIVERSIDE COUNTY FLOOD CONTROL
AND
WATER CONSERVATION DISTRICT

LA SIERRA CHANNEL
MAGNOLIA DRAIN
STAGE II
STA 109+00 TO STA 114+00

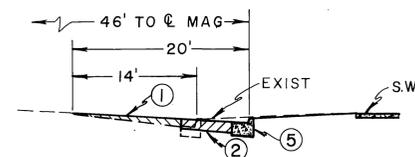
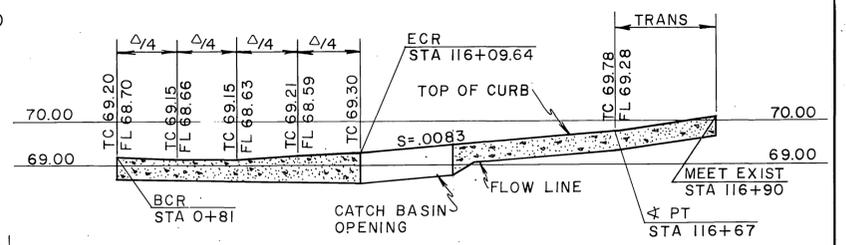
Designed: JH & JE	Sheet No. 16 of 16
Drawn: L. L. Rando	Dwg. No. 1-259
Checked: D.M.	Date Drawn: 7-21-71
Date: 7-1-71	



D-243



⑬ JS NO. 2 STA 115+72.00
 A = 55°
 B = 24"
 C = 3.6'
 D = 33"
 E = 2.90'
 F = .75'
 G = .70'
 L = 3.50'
 EL R = 761.42
 EL S = 761.38



PROFILE OF CURB & GUTTER AT S.E. CORNER OF MAGNOLIA & HARRISON

SCALE: HORIZ 1" = 20'
 VERT 1" = 2'

TYP SECTION OF ST RECONSTRUCTION

- NOTES:
- ① INDICATES AC OVERLAY.
 - ② INDICATES 2.5' AC OVER 4" CL II AGGR BASE OR 5" AC.
 - ③ CURB RADIUS DATA
 $\Delta = 90^\circ$
 $R = 35.00'$
 $T = 35.00'$
 $L = 55.00'$
 $BCR = 0+81$
 $ECR = 116+09.64$
 - ④ ϕ OF 17' D/W DEPRESSION STA 116+58.14
 - ⑤ CITY OF RIV, STD.# 200-6" CF

- ⑨ CB NO. 1
 $W = 21'$ $CF = 11.2"$
 $V = 5'-3"$
 17'-24" RCP CLASS III
- ⑩ REMOVE EXIST CB, $\pm 9'$ OF 12" CONNECTOR PIPE, MH, AND $\pm 110'$ OF 16 SD AND 135 LF OF CURB AND GUTTER.
- ⑪ RELOCATE ST. LIGHT.
- ⑫ CONNECT 12" SD WITH $\pm 8'$ 12" RCP CL III.
- ⑬ CB NO. 1
 $W = 14'$ $CF = 9.5"$
 $V = 6'-6"$
 63'-24" RCP CL III - 24'-24" RCP 3500-D SEE PROFILE THIS SHEET
- ⑭ ϕ SD STA 115+54.64 = HARRISON STA. 0+30.00
- ⑮ INDICATES ITEMS TO BE RELOCATED BY OTHERS.

REFERENCE	DESCRIPTION	APPROVED	DATE
	No Change		

PROJECT NO. 1 - 0 - 062

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

LA SIERRA CHANNEL MAGNOLIA DRAIN STAGE II

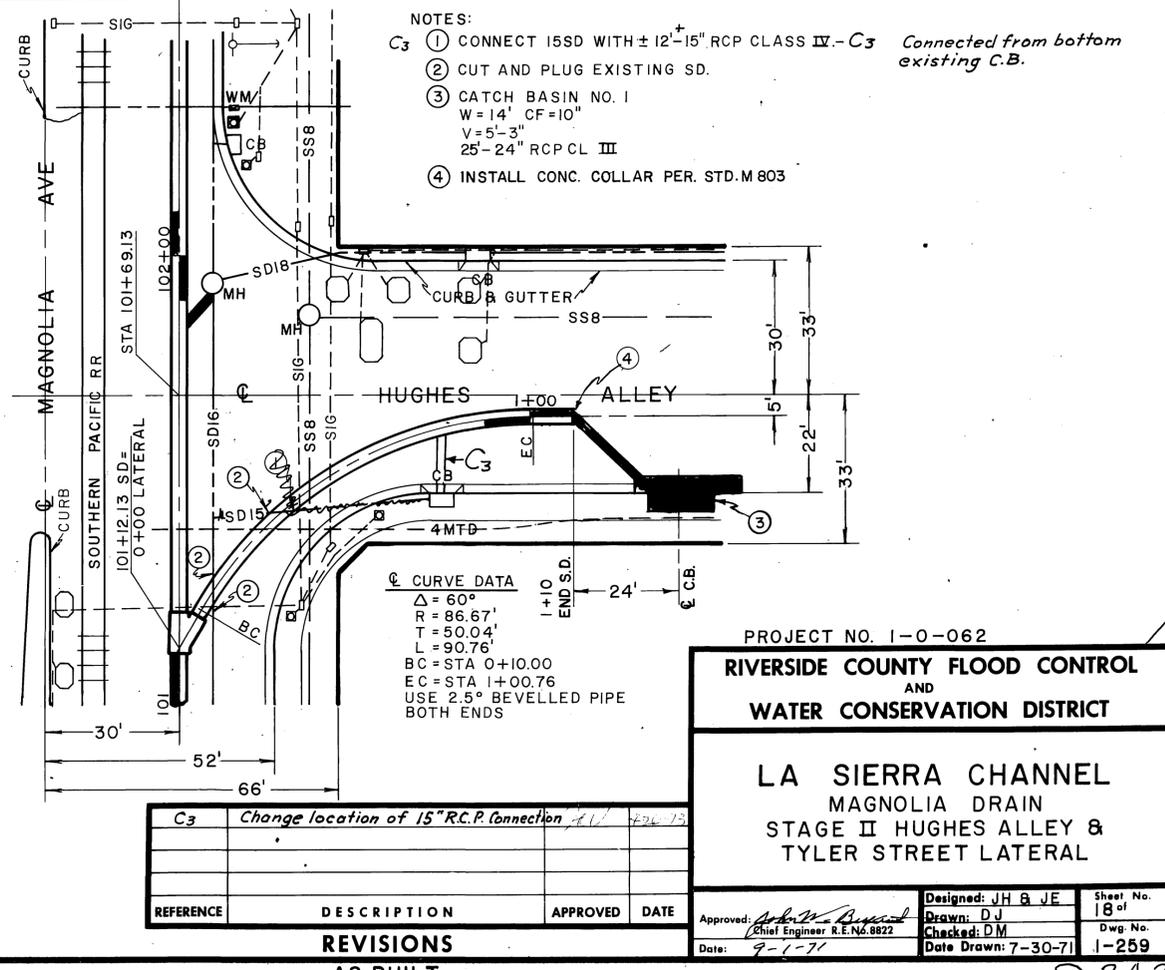
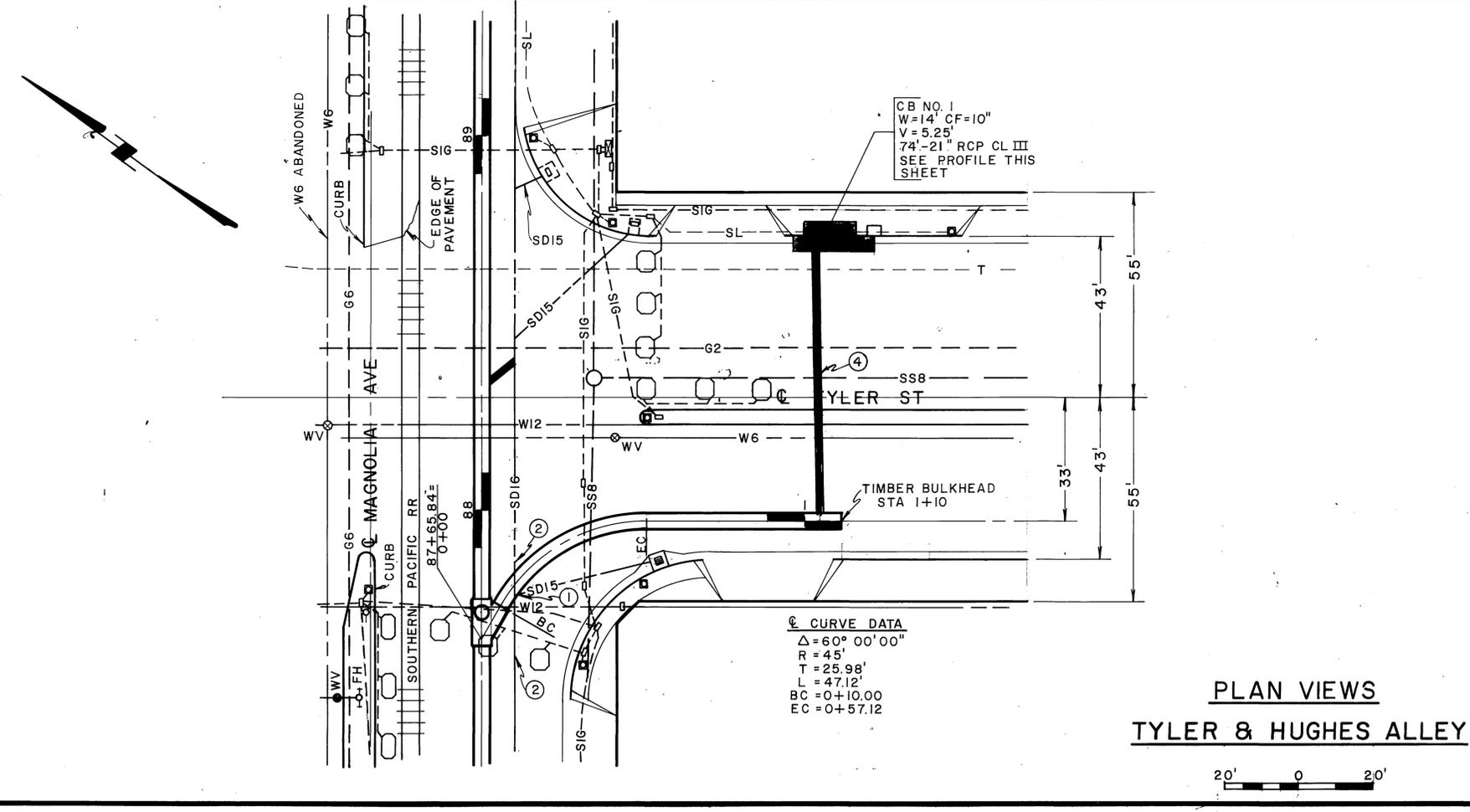
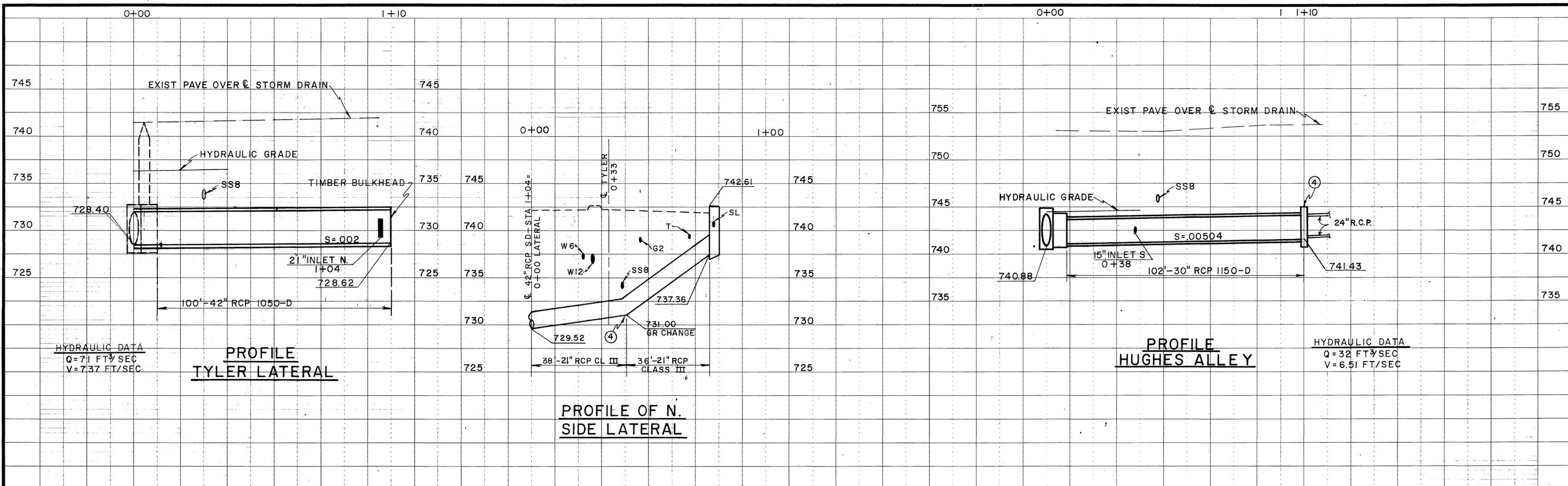
STA 114+00 TO STA 117+50

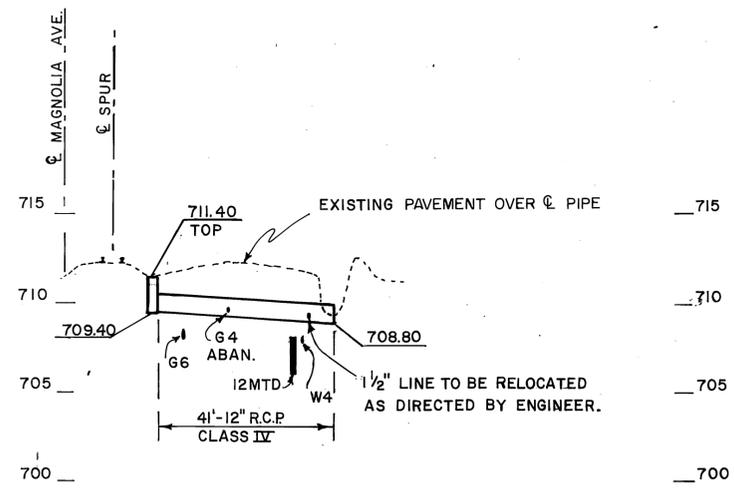
Designed: JH BJE
 Drawn: L.P. BJE
 Checked: DM
 Date: 7-1-71

Approved: [Signature]
 Chief Engineer / R.E. No 8822
 Date: 7-1-71

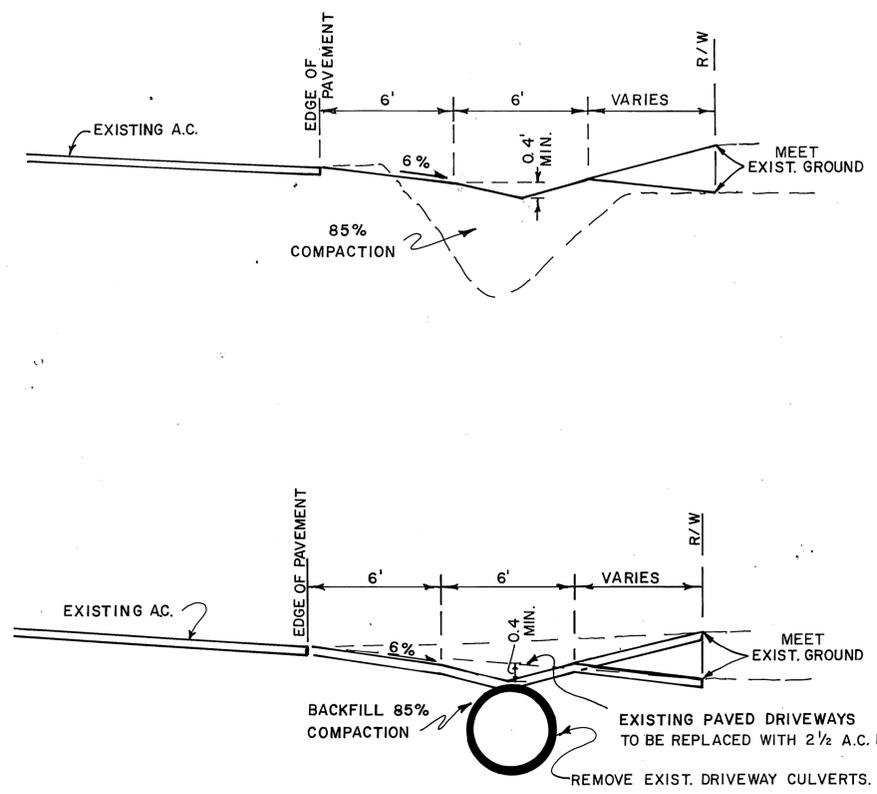
Sheet No 17 of 17
 Dwg. No 1-259

- REVISIONS -
 AS BUILT

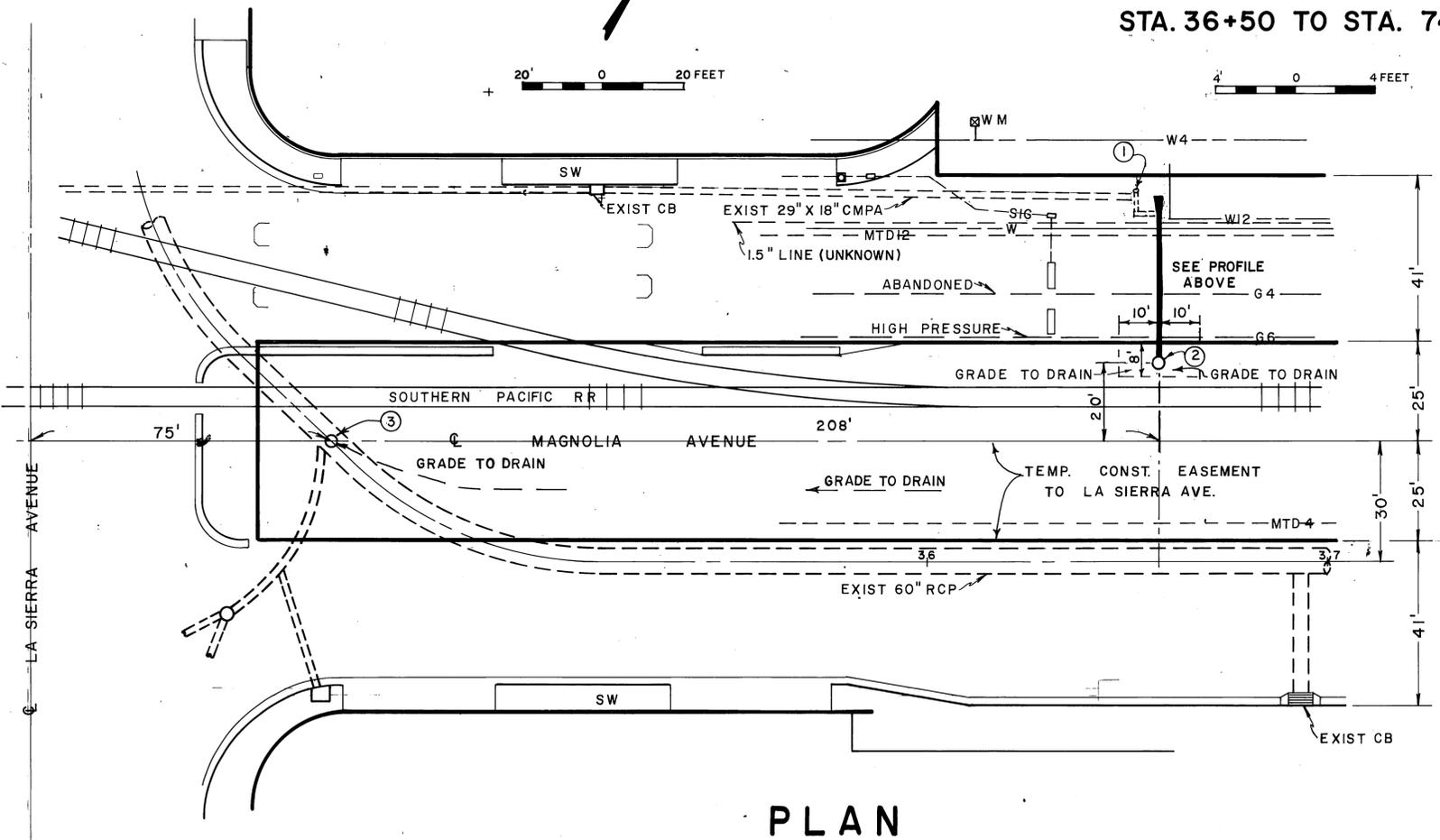




PROFILE



**TYPICAL SHOULDER RECONSTRUCTION
NORTH SIDE OF MAGNOLIA AVE.
STA. 36+50 TO STA. 74+00**



PLAN

- NOTES**
- ① PROTECT EXISTING HEADWALL IN PLACE
 - ② INLET TYPE XII
V = 2'-0"
TOP ELEV. = 711.40
4'-12" R.C.P. CLASS IV
SEE PROFILE THIS SHEET
 - ③ INSTALL HEAVY TRAFFIC GRATED MANHOLE COVER.

	No Change		

REFERENCE	DESCRIPTION	APPROVED	DATE

- REVISIONS -
AS BUILT

PROJECT NO. 1-0-062

RIVERSIDE COUNTY FLOOD CONTROL
AND
WATER CONSERVATION DISTRICT

**LA SIERRA CHANNEL
MAGNOLIA DRAIN
STAGE II**

Approved: <i>[Signature]</i> Chief Engineer R.E. No 8822	Designed: <i>[Signature]</i> Drawn: DJ	Sheet No 19 of Dwg. No 1-259
Date: 7-1-71	Checked: <i>[Signature]</i> Date Drawn: 8-26-71	

D-243