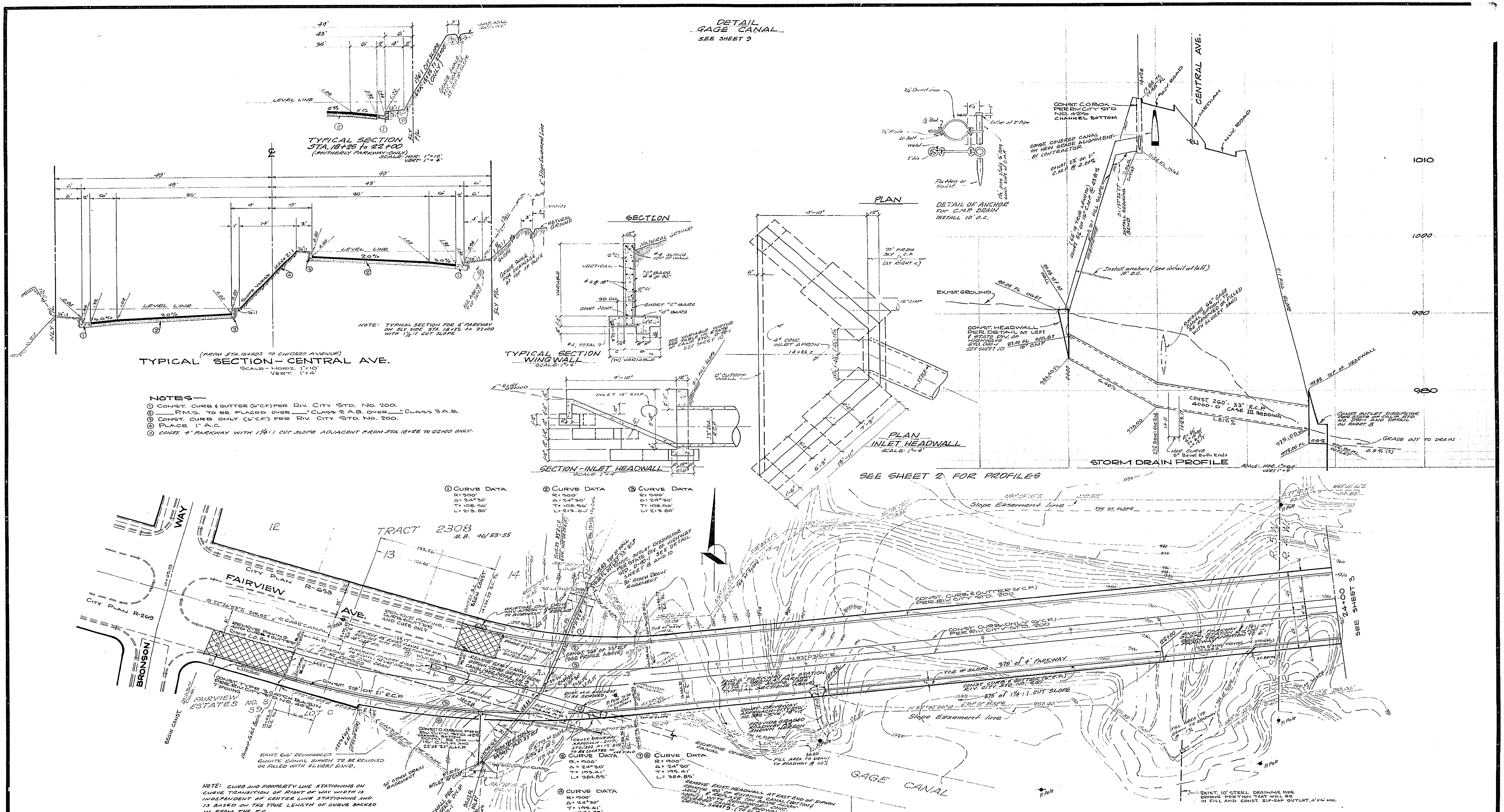


NOTES—

1. CONST. CURB & GUTTER (6" C.F.) PER RIV. CITY STD. NO. 200.
2. ____ P.M.S. TO BE PLACED OVER ____" CLASS 2 A.B. OVER ____" CLASS 3 A.B.
3. CONST. CURB ONLY (6" C.F.) PER RIV. CITY STD. NO. 200.
4. PLACE 1" A.C.
5. CONST. 4' PARKWAY WITH 1¼:1 CUT SLOPE ADJACENT FROM STA. 18+25 TO 22+00 ONLY.

NOTE: CURB AND PROPERTY LINE STATIONING ON CURVE TRANSITION OF RIGHT OF WAY WIDTH IS INDEPENDENT OF CENTER LINE STATIONING AND IS BASED ON THE TRUE LENGTH OF CURVE BACKED IN FROM THE E.C.

GAGE CANAL COMPANY
APPROVED BY [signature]
General Manager
DATE 11/8/67

J. F. DAVIDSON ASSOCIATES
CIVIL ENGINEERS - SURVEYORS - PLANNERS
RIVERSIDE, CALIFORNIA
APPROVED BY George E. McCarty DATE 3/22/66
R.E. No. 10688
W.O. 416 FOR: CITY OF RIVERSIDE F.B. 929

MARK	REVISIONS	APPR.	DATE

DESIGNED BY Geo. H. DRAWN BY G.L.V. CHECKED BY [illegible]

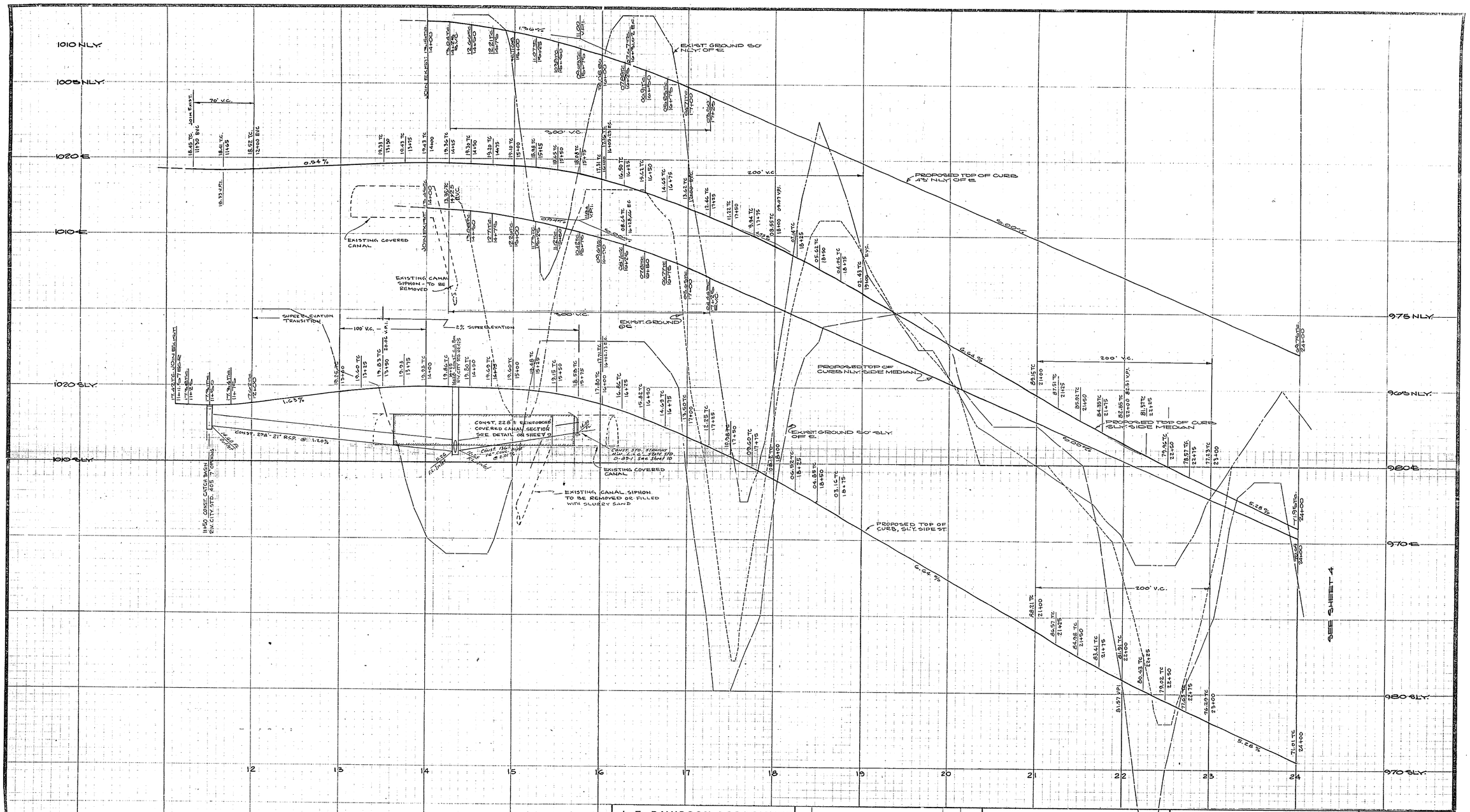
CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
OFFICE ENGINEER	[illegible]	2-15-66
PARK DEPARTMENT	—	—
TRAFFIC DIVISION	[illegible]	2/16
ASSISTANT CITY ENG.	[illegible]	3-1

APPROVED BY [signature]
DIRECTOR OF PUBLIC WORKS
DATE 3-4-68

CENTRAL AVE.
FROM FAIRVIEW AVENUE TO CHAPALA DRIVE
BRONSON WAY TO STA 24+00
HORIZ. SCALE: 1" = 50' VERT. SCALE: 1" = 5'

PROJECT NO. R-1185
SHEET 1 OF 10
FILE NO. 3305



GAGE CANAL COMPANY
Approved by [signature] General Manager
Date 11/8/65

J. F. DAVIDSON ASSOCIATES
CIVIL ENGINEERS - SURVEYORS - PLANNERS
RIVERSIDE, CALIFORNIA
APPROVED BY George E. McCarty DATE 3/22/66
R.E. No. 10688
W.O. 416 FOR: CITY OF RIVERSIDE F.B. 929

MARK	REVISIONS	APPR.	DATE

DESIGNED BY ___ DRAWN BY [illegible] CHECKED BY [illegible]

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

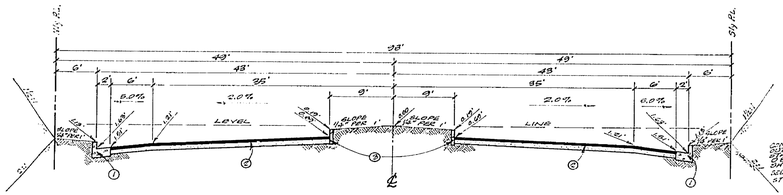
APPROVED BY	BY	DATE
OFFICE ENGINEER	[illegible]	2-16-66
PARK DEPARTMENT	—	—
TRAFFIC DIVISION	—	—
ASSISTANT CITY EN	[illegible]	3.1

APPROVED BY [signature]
DIRECTOR OF PUBLIC WORKS
DATE 3-4-65

CENTRAL AVE.
FROM FAIRVIEW AVE. TO CHAPALA DRIVE
BRONSON WAY to STA 24+00
HORIZ. SCALE: 1" = 50' VERT. SCALE: 1" = 5

PROJECT NO. R-1185
SHEET 2 OF 10
FILE NO. 3305

Chicago Avenue to Sta 35+50 Median and pavement width varies, Cross slope varies, from Typical Section
Sta. 35+50 to Sta. 45+00 as shown on Typical Section.
Sta 45+00 to Sta. 50+00 Median and pavement width varies, Cross slope varies, from Typical Section

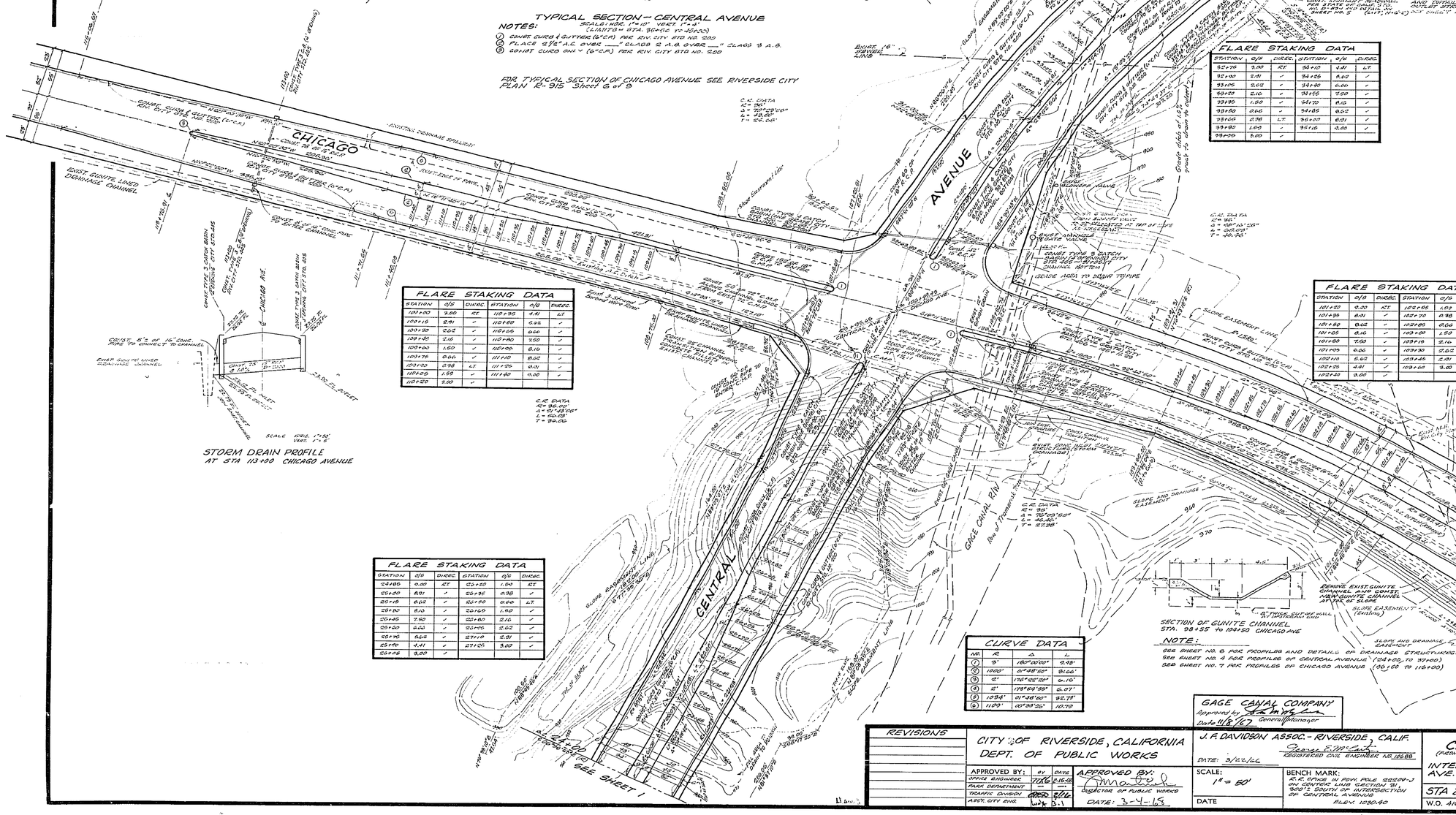


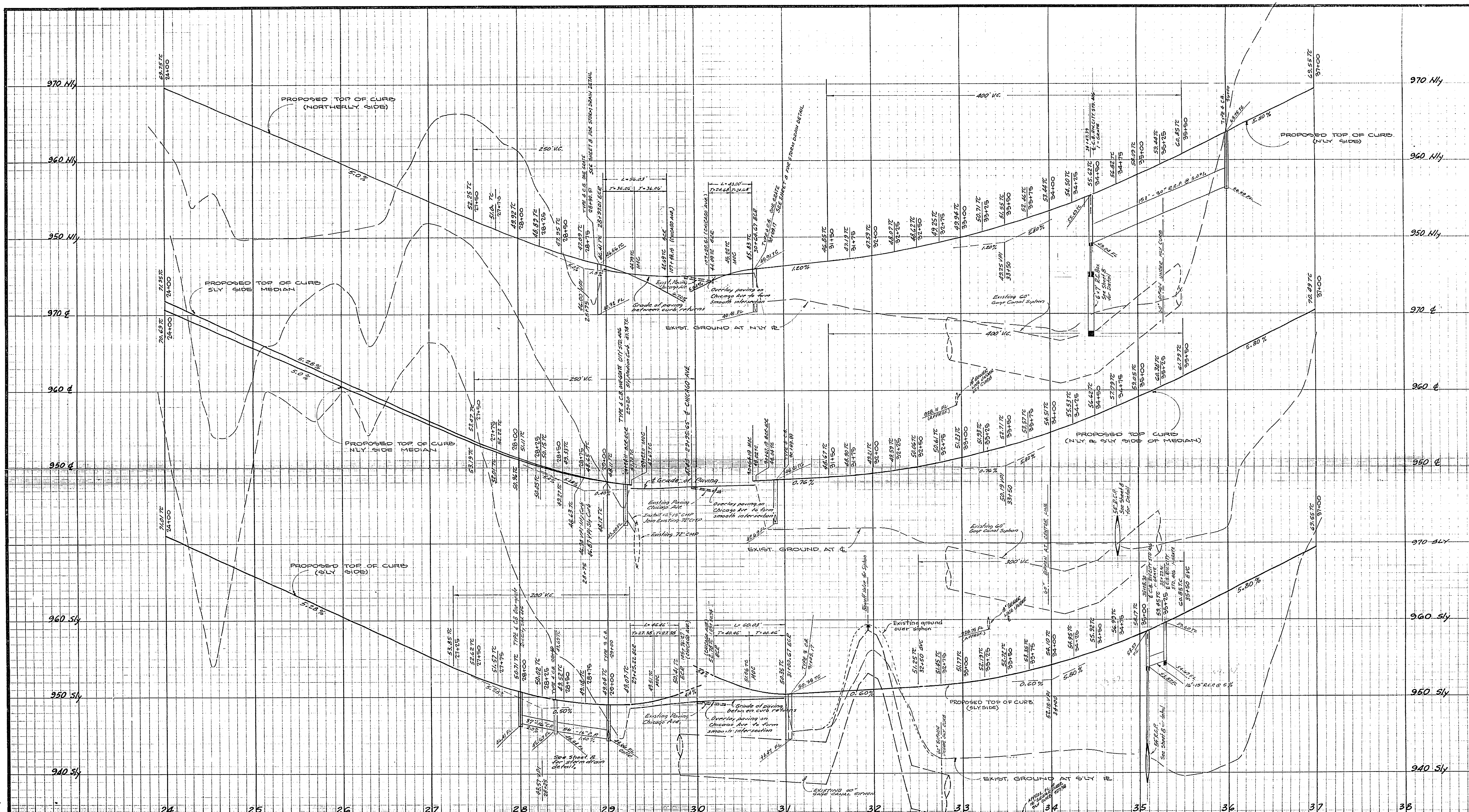
TYPICAL SECTION – CENTRAL AVENUE

NOTES: SCALE: HOR. 1"=10' VERT. 1"=5' (LIMITS of STA. SHOWN TO APPLY)

1. CONST. CURB & GUTTER (6"C.G.) PER RIV. CITY STD NO. 200
2. PLACE 2½" A.C. OVER ___" CLASS 2 A.B. OVER ___" CLASS 3 A.B.
3. CONST. CURB ONLY (6"C.G.) PER RIV. CITY STD NO. 200

FOR TYPICAL SECTION OF CHICAGO AVENUE SEE RIVERSIDE CITY PLAN R-915 Sheet 6 of 9





GAGE CANAL COMPANY
Approved by [signature] General Manager
Date 11/8/67

J. F. DAVIDSON ASSOCIATES
CIVIL ENGINEERS - SURVEYORS - PLANNERS
RIVERSIDE, CALIFORNIA

APPROVED BY George E. McCarty DATE 3/22/66
R.E. No. 10688

W.O. FOR: F.B.

MARK	REVISIONS	APPR.	DATE

DESIGNED BY ______ DRAWN BY ______ CHECKED BY [initials]

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
OFFICE ENGINEER	[initials]	2.16.68
PARK DEPARTMENT	—	—
TRAFFIC DIVISION	—	—
ASSISTANT CITY	Wdz	3.1

APPROVED BY [signature]
DIRECTOR OF PUBLIC WORKS
DATE 3-4-68

CENTRAL AVENUE

FROM FAIRVIEW AVENUE TO CHAPALA DRIVE

STA 24+00 to STA. 37+00

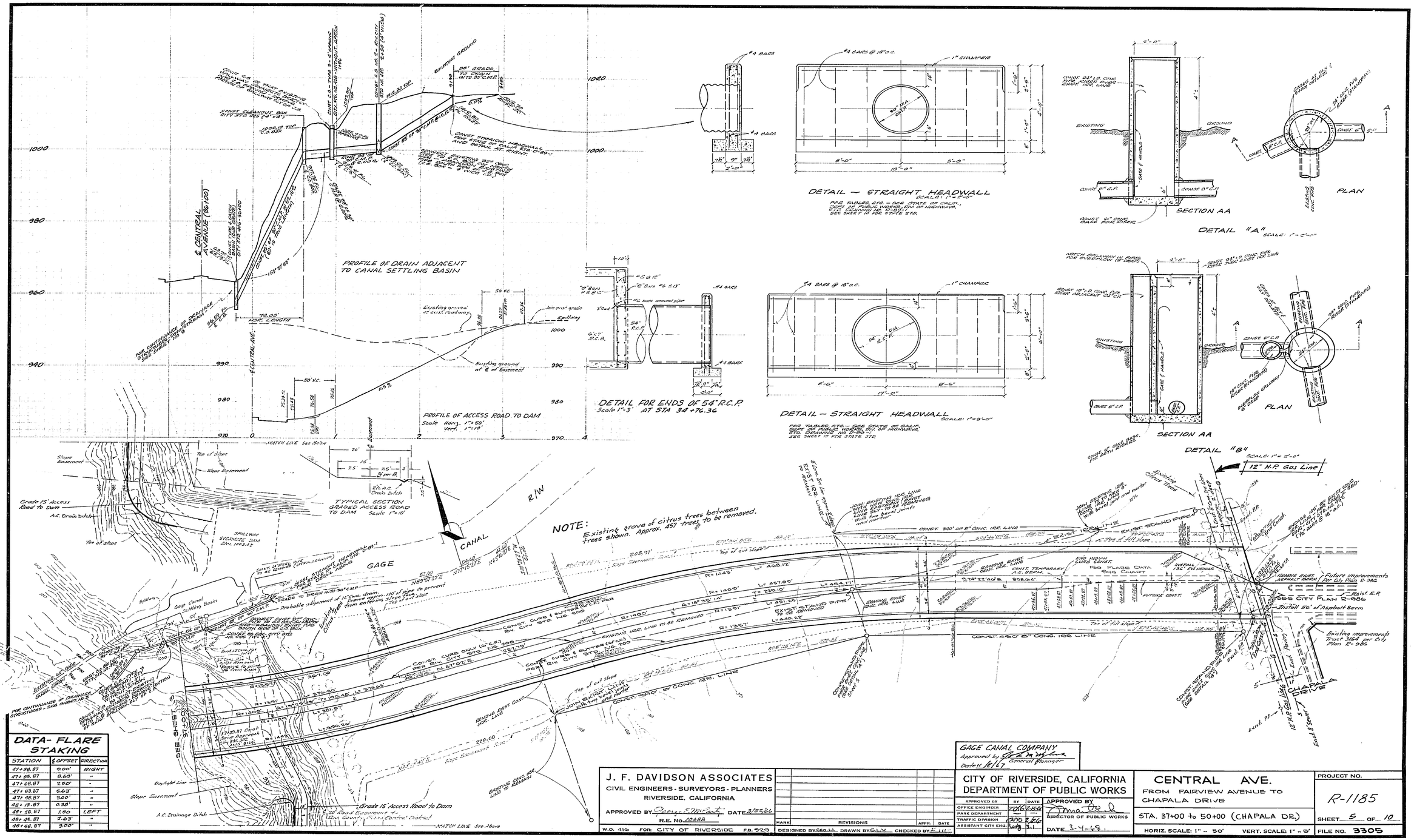
HORIZ. SCALE: 1" = 50' VERT. SCALE: 1" = 5'

PROJECT NO. R-1185

SHEET 4 OF 10

FILE NO. 3305

VOID 11/18/68 SEE DWG R-1314



DATA- FLARE STAKING

STATION	℄ OFFSET	DIRECTION
47+38.87	9.00'	RIGHT
47+53.87	8.63'	"
47+68.87	7.50'	"
47+83.87	5.63'	"
47+98.87	3.00'	"
48+13.87	0.38'	"
48+28.87	1.50	LEFT
48+43.87	2.63'	"
48+58.87	3.00'	"

GAGE CANAL COMPANY
Approved by [signature] General Manager
Date 11/8/67

J. F. DAVIDSON ASSOCIATES
CIVIL ENGINEERS - SURVEYORS - PLANNERS
RIVERSIDE, CALIFORNIA
APPROVED BY [signature] DATE 3/22/66
R.E. No. 10488
W.O. 416 FOR: CITY OF RIVERSIDE F.B. 929

MARK	REVISIONS	APPR.	DATE

DESIGNED BY S.S.O.H. DRAWN BY G.L.V. CHECKED BY [signature]

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
OFFICE ENGINEER	TTK	2-15-68
PARK DEPARTMENT	—	—
TRAFFIC DIVISION	[illegible]	2-16-68
ASSISTANT CITY ENG.	[illegible]	3-1

APPROVED BY [signature]
DIRECTOR OF PUBLIC WORKS
DATE 3-4-68.

CENTRAL AVE.
FROM FAIRVIEW AVENUE TO CHAPALA DRIVE

STA. 37+00 to 50+00 (CHAPALA DR.)

HORIZ. SCALE: 1" = 50' VERT. SCALE: 1" = 5'

PROJECT NO. R-1185

SHEET 5 OF 10

FILE NO. 3305

VC D 11/18/68 SEE DWG R-1314

EXIST. GROUND
5% N'LY. E.

PROPOSED TOP OF CURB
4% N'LY. E.

EXIST. GROUND
5% S'LY. E.

PROPOSED TOP OF CURB
N'LY. & S'LY. SIDE MEDIAN

PROPOSED TOP OF CURB
4% S'LY. E.

Existing conc. irrigation pipe to be removed
See Sheet 5 for location.

Existing conc. irrigation line and stand pipe to be removed.
See Sheet 5 for location.

Approx. location of property line

Approx. location of Irrigation line

Approx. location of Irrigation line

Approx. location of Irrigation line

Begin Curb Return
Curb Return Begin Sta. 36+99.00

End Curb Return
Curb Return End Sta. 37+99.00

Begin Curb Return
Curb Return Begin Sta. 49+13.76

End Curb Return
Curb Return End Sta. 50+13.76

1030 N'LY
1020 N'LY
1030 E
1020 E
1030 S'LY.
1020 S'LY.
1010 S'LY.
1000 S'LY.
1010 N'LY
1000 N'LY
990 N'LY
1010 E
990 E
980 E
990 S'LY.
970 E
980 S'LY.
970 S'LY.

400' V.C.

SEE SHEET 4

37 38 39 40 41 42 43 44 45 46 47 48 49 50

J. F. DAVIDSON ASSOCIATES
CIVIL ENGINEERS - SURVEYORS - PLANNERS
RIVERSIDE, CALIFORNIA
APPROVED BY George E. McCoy DATE 3/22/66
R.E. No. 26658
W.O. 410 FOR: CITY OF RIVERSIDE F.B. 923

MARK	REVISIONS	APPR.	DATE

DESIGNED BY GEO.H. DRAWN BY RDH CHECKED BY [illegible]

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

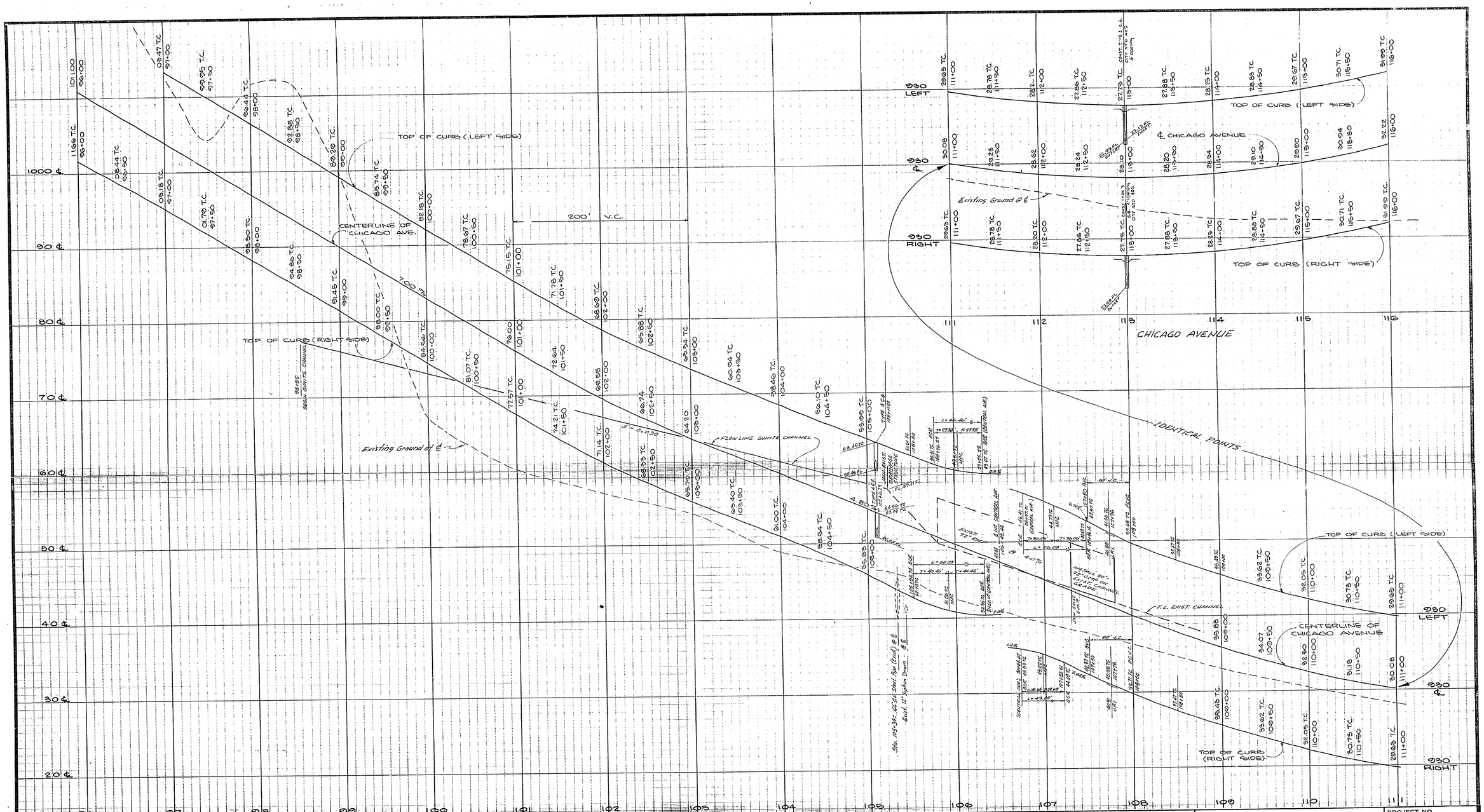
APPROVED BY	BY	DATE
OFFICE ENGINEER	[illegible]	7/26/68
PARK DEPARTMENT	—	—
TRAFFIC DIVISION	—	—
ASSISTANT CITY ENG.	WB	3-5

APPROVED BY [signature]
DIRECTOR OF PUBLIC WORKS
DATE 3-4-68

CENTRAL AVE.
FROM FAIRVIEW AVENUE
TO CHAPALA DRIVE
STA. 37+00 to 50+00 (CHAPALA DR.)
HORIZ. SCALE: 1" = 50' VERT. SCALE: 1" = 5

PROJECT NO. R-1185
SHEET 6 OF 10
FILE NO. 83505

V010 11/18/68 SEE DWG R-1314



GAGE CANAL COMPANY
Approved by [signature]
Date 11/8/67 General Manager

J. F. DAVIDSON ASSOCIATES
CIVIL ENGINEERS · SURVEYORS · PLANNERS
RIVERSIDE, CALIFORNIA
APPROVED BY George E. McCarty DATE 3/24/66
R.E. No. 10688
W.O. 416 FOR: CITY OF RIVERSIDE F.B.

MARK	REVISIONS	APPR.	DATE

DESIGNED BY GSO. M. DRAWN BY: DOD. B CHECKED BY RL-HL.

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
OFFICE ENGINEER		
PARK DEPARTMENT		
TRAFFIC DIVISION		
ASSISTANT CITY ENG.		

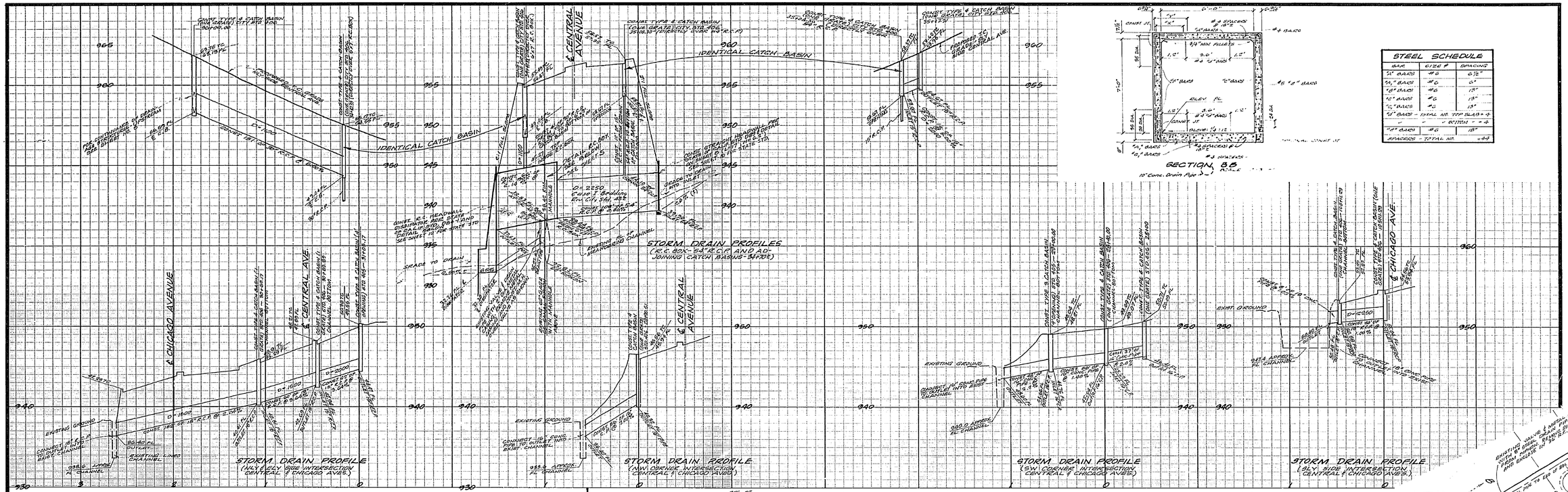
APPROVED BY [signature]
DIRECTOR OF PUBLIC WORKS
DATE 3-4-68

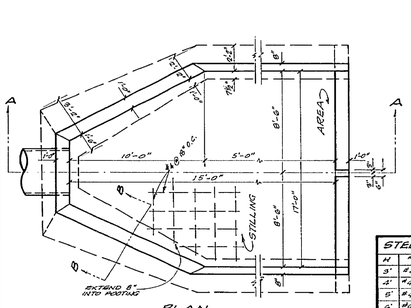
CENTRAL AVE.
FROM FAIRVIEW AVENUE TO CHAPALA DRIVE

CHICAGO AVENUE AT INTERSECTION WITH CENTRAL AVENUE

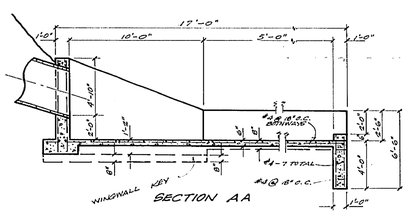
HORIZ. SCALE: 1" = 50' VERT. SCALE: 1" = 5'

PROJECT NO. R-1185
SHEET 7 OF 10
FILE NO. 3305

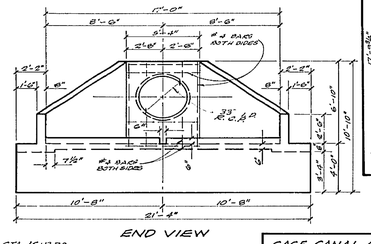




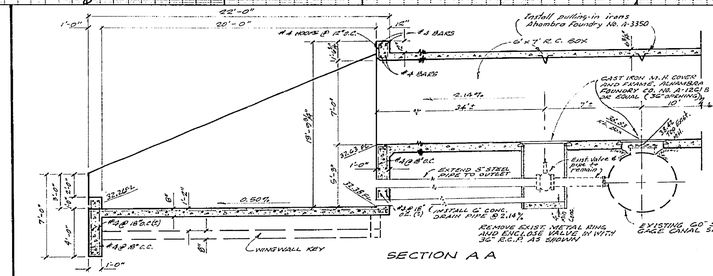
STEEL SCHEDULE		
H	"C" BARS	"J" BARS
3'	#5 @ 20"o.c.	#4 @ 23"o.c.
4'	#5 @ 20"o.c.	#4 @ 20"o.c.
5'	#5 @ 18"o.c.	#4 @ 18"o.c.
6'	#5 @ 20"o.c.	#4 @ 20"o.c.
7'	#6 @ 15"o.c.	#4 @ 12"o.c.



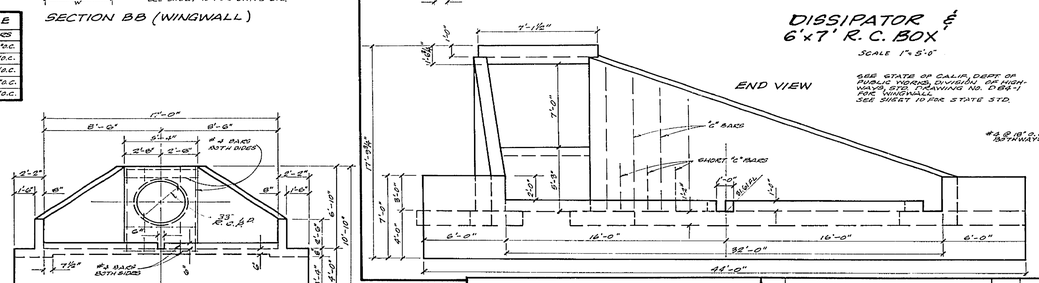
DISSIPATOR (33" R.C.P.) CENTRAL AVE STA 15+12.29
SCALE: 1"=5'
SEE STATE OF CALIF., DEPT. OF PUBLIC WORKS, DIVISION OF HIGHWAYS, STD. DRAWING NO. D96D-1



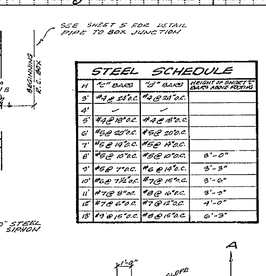
GAGE CANAL COMPANY
Approved by [signature]
July 11/8/67 General Manager

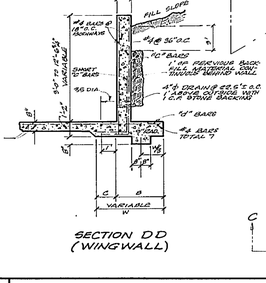


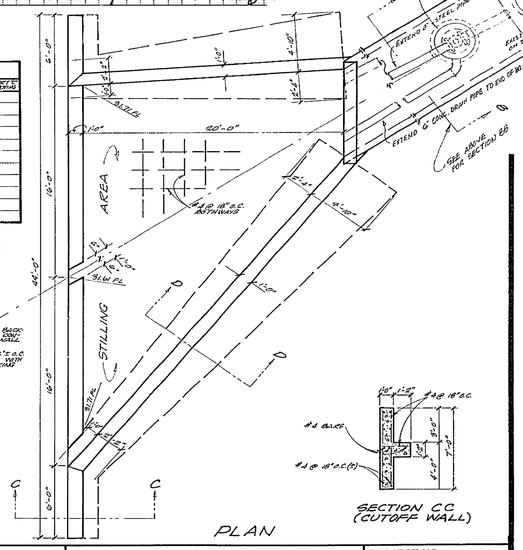
DISSIPATOR & 6'x7' R.C. BOX
SCALE 1"=5'-0"



STEEL SCHEDULE		
H	"C" BARS	"J" BARS
3'	#5 @ 23"o.c.	#3 @ 23"o.c.
4'	#5 @ 20"o.c.	#3 @ 20"o.c.
5'	#5 @ 18"o.c.	#3 @ 18"o.c.
6'	#5 @ 20"o.c.	#3 @ 20"o.c.
7'	#6 @ 15"o.c.	#3 @ 15"o.c.







J. F. DAVIDSON ASSOCIATES
CIVIL ENGINEERS - SURVEYORS - PLANNERS
RIVERSIDE, CALIFORNIA
APPROVED BY: George E. McCarty DATE: 3/22/66
R.E. No. 10638
W.O. 416 FOR: CITY OF RIVERSIDE F.B. 929

MARK	REVISIONS	APPR.	DATE

DESIGNED BY: GEC/MC DRAWN BY: SMITH CHECKED BY: [illegible]

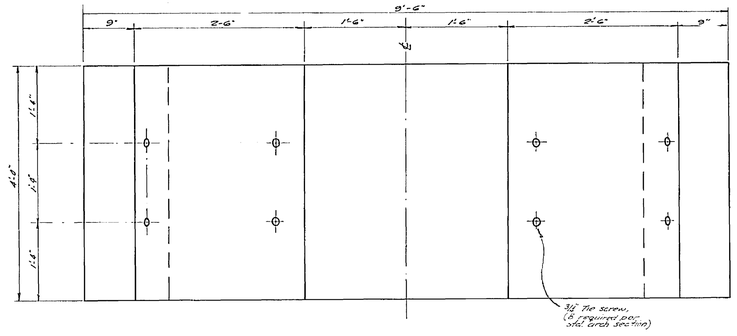
CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
OFFICE ENGINEER	[illegible]	11/16/67
PARK DEPARTMENT	—	—
TRAFFIC DIVISION	—	—
ASSISTANT CITY ENG.	[illegible]	3-1

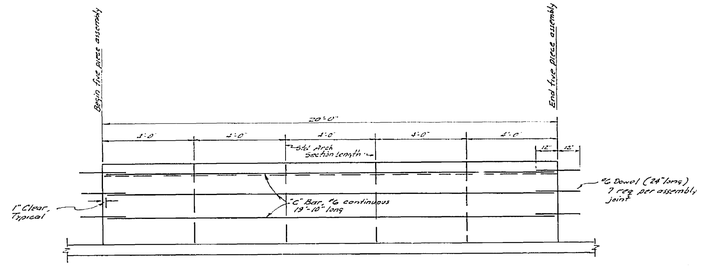
APPROVED BY: [signature]
DIRECTOR OF PUBLIC WORKS
DATE 3-4-68

CENTRAL AVENUE
FROM FAIRVIEW AVE. TO CHAPALA DRIVE
STORM DRAIN DETAILS
HORIZ. SCALE: 1" = 50' VERT. SCALE: 1" = 5'

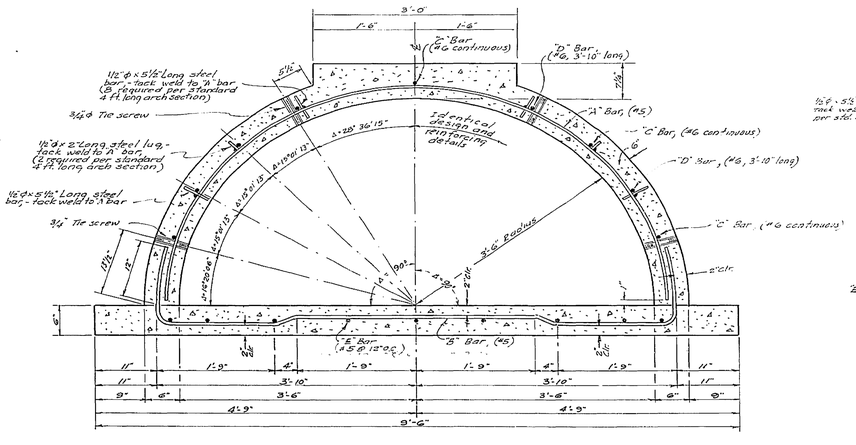
PROJECT NO. R-1185
SHEET 8 OF 10
FILE NO. 330F



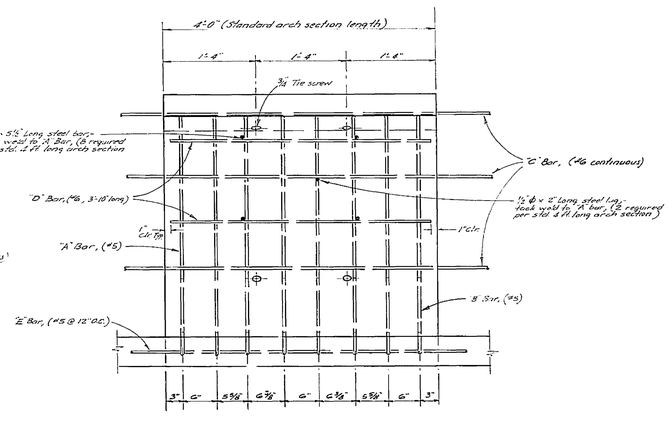
PLAN OF STANDARD ARCH SECTION
Scale 1"=1'



ELEVATION SHOWING CONTINUOUS HORIZONTAL REINFORCING BARS FOR FIVE-PIECE ASSEMBLEY
Scale 1"=3'



TYPICAL CROSS SECTION
Scale 1"=1'



ELEVATION
Scale 1"=1'

GENERAL NOTES:
1. Steel cover: 2" minimum
2. Chamfer: 3/4" all exposed corners.
3. Expansion joint: 3/4" with waterstop (one per 80 ft.)
4. Form used: Gage Canal Company form for cartel covering.

GAGE CANAL COMPANY
Approved by _____
Date 11/8/67 General Manager

J. F. DAVIDSON ASSOCIATES
CIVIL ENGINEERS - SURVEYORS - PLANNERS
RIVERSIDE, CALIFORNIA
APPROVED BY George E. McCarty DATE 10/21/66
R.E. No. 10688
W.O. 416 FOR: CITY OF RIVERSIDE F.B. 229

MARK	REVISIONS	APPR.	DATE

DESIGNED BY ____ DRAWN BY ____ CHECKED BY ____

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

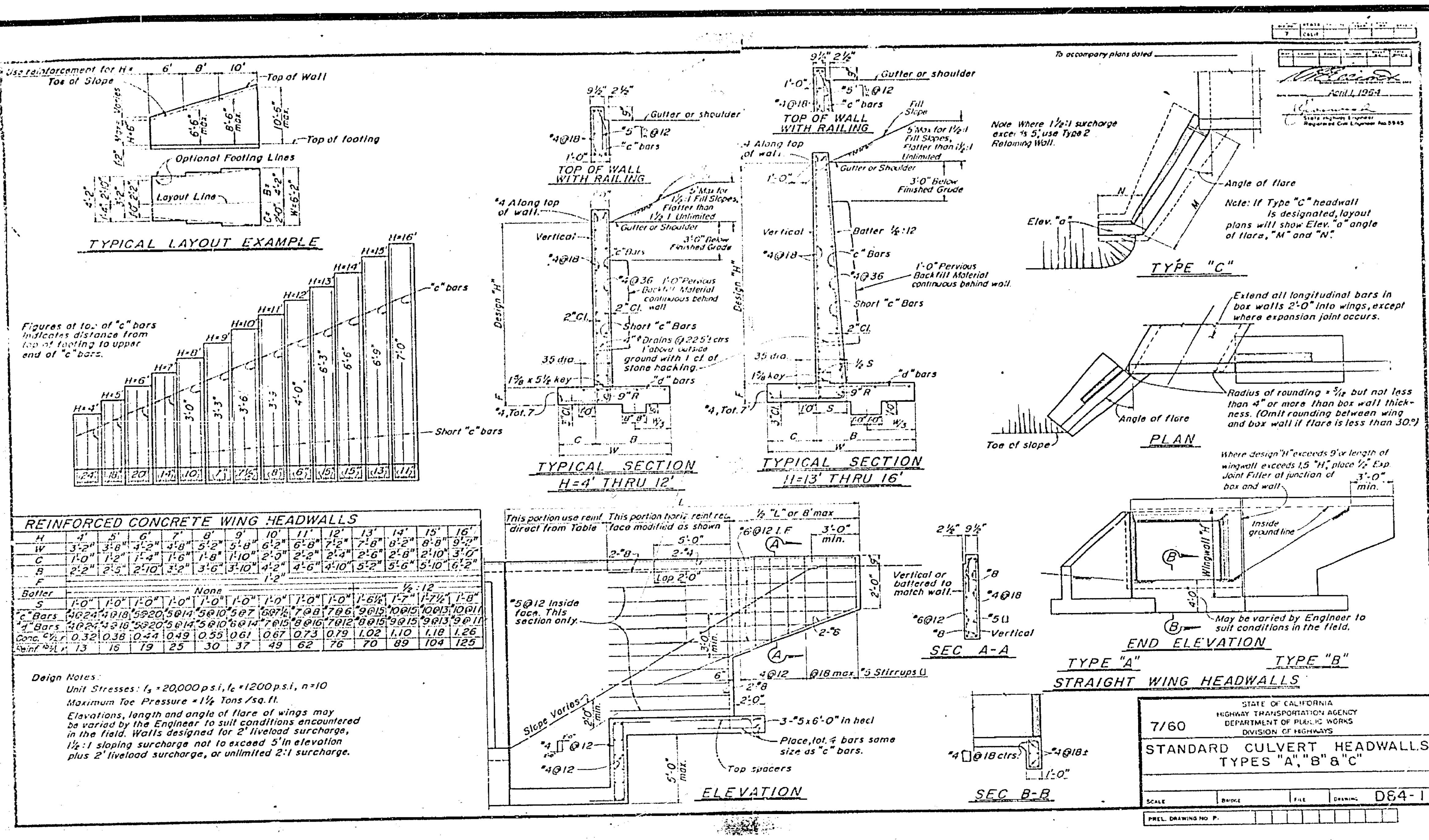
	BY	DATE
APPROVED BY		
OFFICE ENGINEER	[illegible]	[illegible]
PARK DEPARTMENT	—	—
TRAFFIC DIVISION	—	—
ASSISTANT CITY ENG.	[illegible]	3-21

APPROVED BY _____
DIRECTOR OF PUBLIC WORKS
DATE 3-24-68

CENTRAL AVE.
FROM FAIRVIEW AVENUE TO CHAPALA DRIVE
DETAIL OF CANAL COVERING

HORIZ. SCALE: 1" = ____ VERT. SCALE: 1" = ____

PROJECT NO. R-1185
SHEET 9 OF 10
FILE NO. 3305

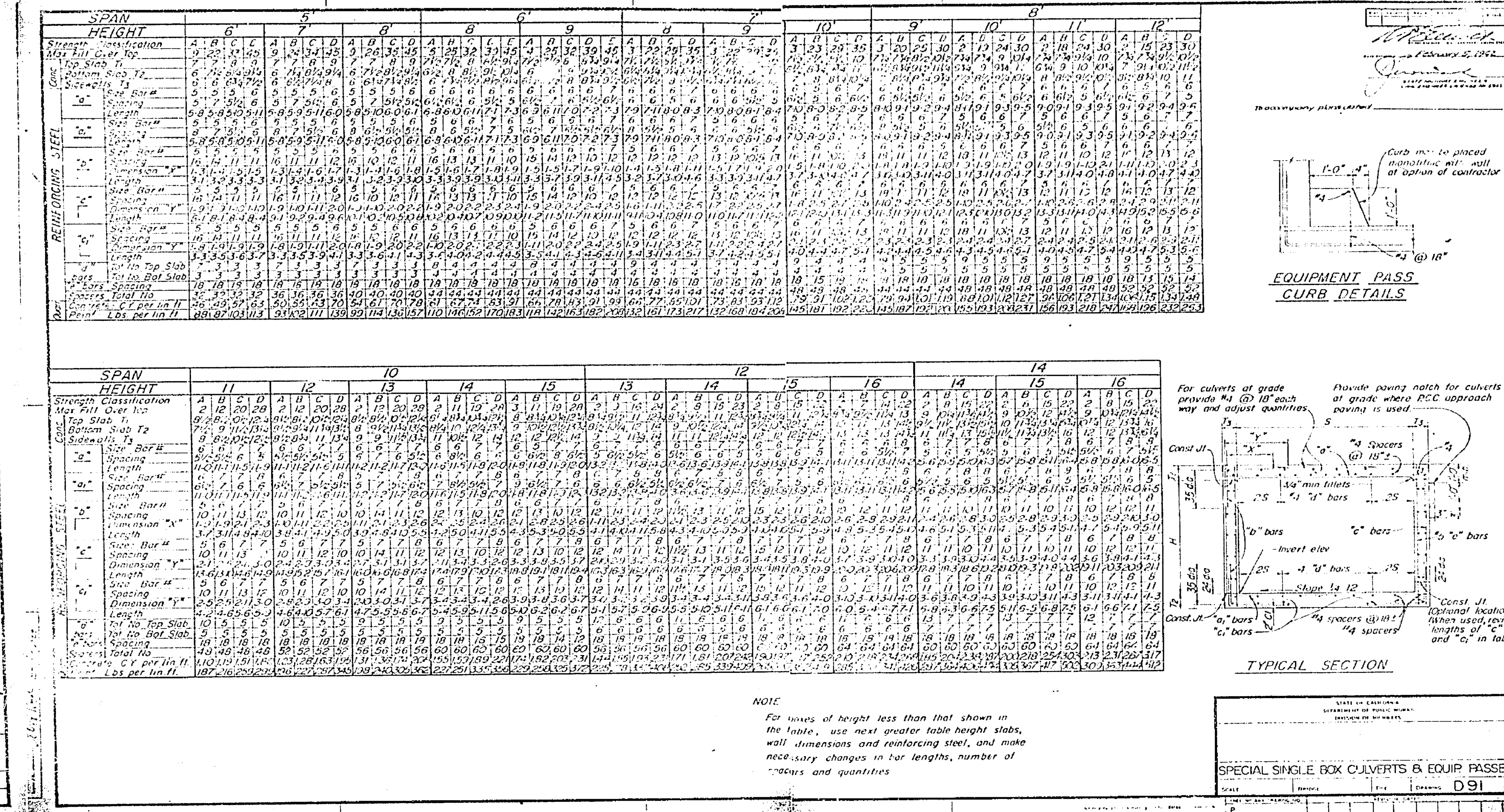


REINFORCED CONCRETE WING HEADWALLS

H	4'	5'	6'	7'	8'	9'	10'	11'	12'	13'	14'	15'	16'
W	3'-2"	3'-8"	4'-2"	4'-8"	5'-2"	5'-8"	6'-2"	6'-8"	7'-2"	7'-8"	8'-2"	8'-8"	9'-2"
C	1'-0"	1'-2"	1'-4"	1'-6"	1'-8"	1'-10"	2'-0"	2'-2"	2'-4"	2'-6"	2'-8"	2'-10"	3'-0"
B	2'-2"	2'-5"	2'-10"	3'-2"	3'-6"	3'-10"	4'-2"	4'-6"	4'-10"	5'-2"	5'-6"	5'-10"	6'-2"
F	1'-2"												
Batter	None									½:12			
S	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-6½"	1'-7"	1'-7½"	1'-8"
"c" Bars	4@24	4@18	5@20	5@14	5@10	5@7	6@7½	7@8	7@6	9@15	10@15	10@13	10@11
"d" Bars	4@24	4@18	5@20	5@14	5@10	6@14	7@15	8@16	7@12	8@15	9@15	9@13	9@11
Conc. CY/L.F.	0.32	0.38	0.44	0.49	0.55	0.61	0.67	0.73	0.79	1.02	1.10	1.18	1.26
Reinf. lbs/L.F.	13	16	19	25	30	37	49	62	76	70	89	104	125

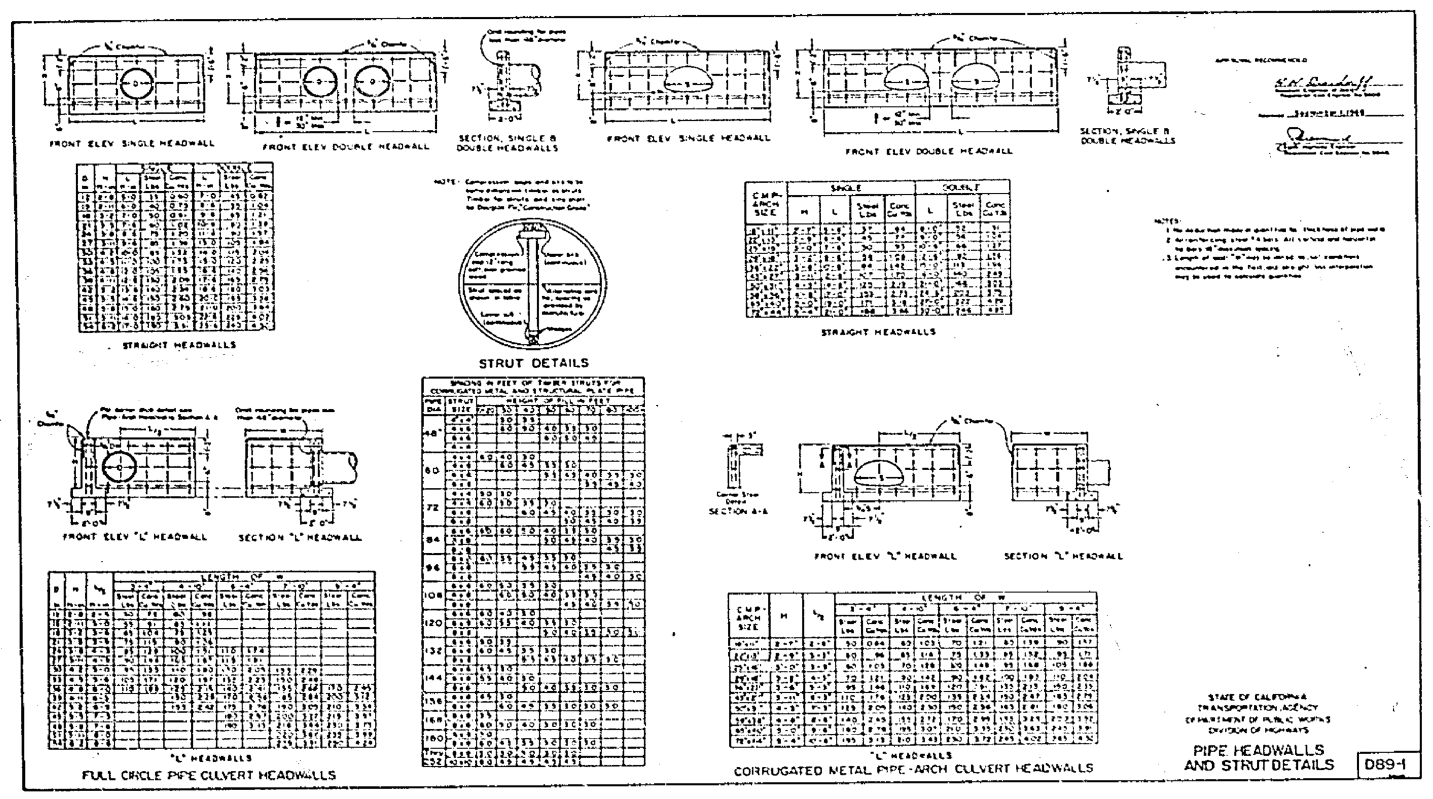
Deign Notes:
Unit Stresses: f_s = 20,000 p.s.i., f_c = 1200 p.s.i., n = 10
Maximum Toe Pressure = 1½ Tons/sq. ft.
Elevations, length and angle of flare of wings may be varied by the Engineer to suit conditions encountered in the field. Walls designed for 2' liveload surcharge, 1½:1 sloping surcharge not to exceed 5' in elevation plus 2' liveload surcharge, or unlimited 2:1 surcharge.

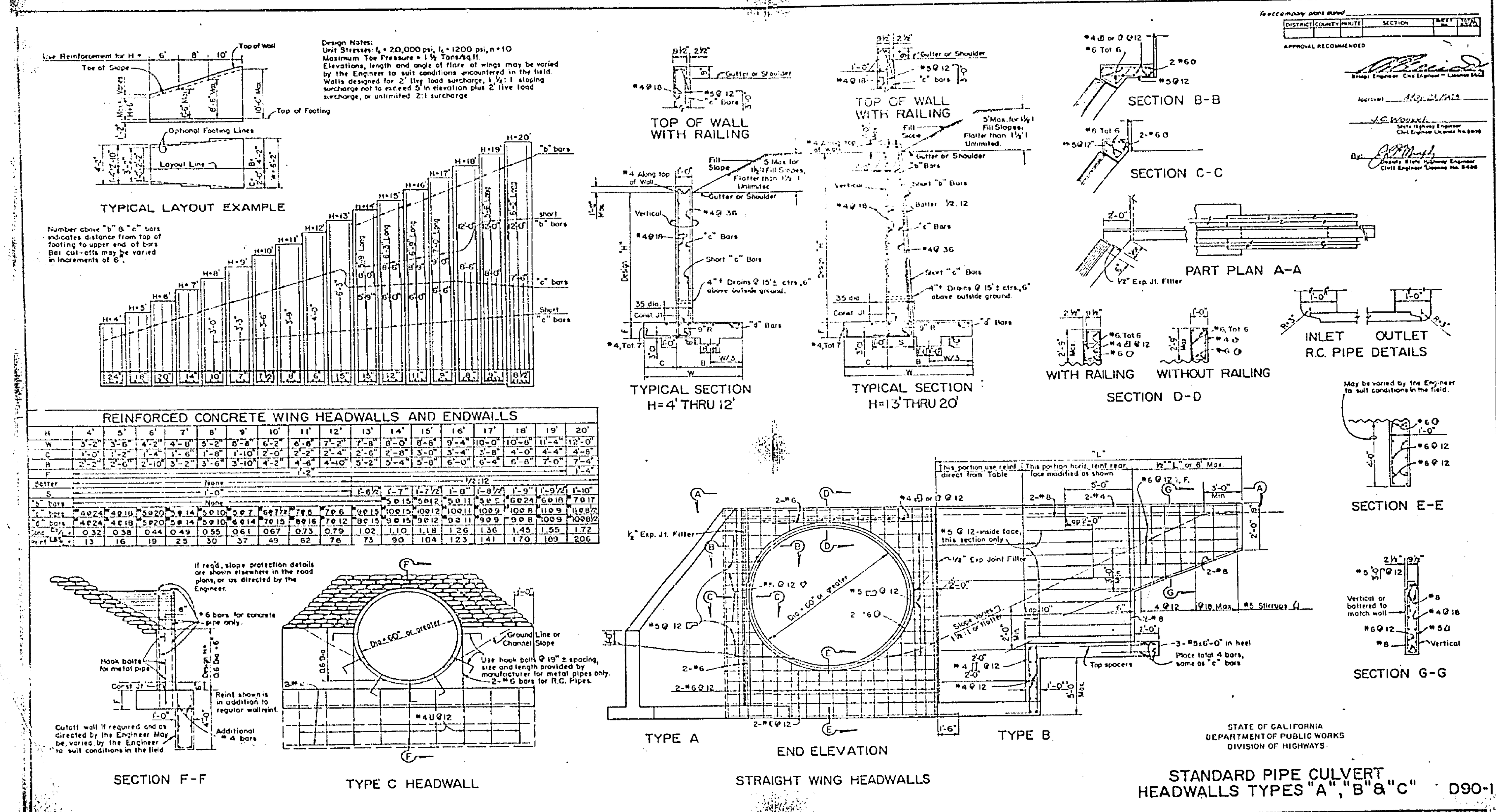
7/60 STATE OF CALIFORNIA HIGHWAY TRANSPORTATION AGENCY DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS
STANDARD CULVERT HEADWALLS TYPES "A", "B" & "C" — D84-1



NOTE
For boxes of height less than that shown in the table, use next greater table height slabs, wall dimensions and reinforcing steel, and make necessary changes in bar lengths, number of spacers and quantities.

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS
SPECIAL SINGLE BOX CULVERTS & EQUIP. PASSES — D91





Design Notes:
Unit Stresses: f_s = 20,000 psi, f_c = 1200 psi, n = 10
Maximum Toe Pressure = 1½ Tons/sq ft.
Elevations, length and angle of flare of wings may be varied by the Engineer to suit conditions encountered in the field. Walls designed for 2' live load surcharge, 1½:1 sloping surcharge not to exceed 5' in elevation plus 2' live load surcharge, or unlimited 2:1 surcharge

REINFORCED CONCRETE WING HEADWALLS AND ENDWALLS

H	4'	5'	6'	7'	8'	9'	10'	11'	12'	13'	14'	15'	16'	17'	18'	19'	20'
W	3'-2"	3'-6"	4'-2"	4'-6"	5'-2"	5'-8"	6'-2"	6'-8"	7'-2"	7'-8"	8'-0"	8'-8"	9'-4"	10'-0"	10'-8"	11'-4"	12'-0"
C	1'-0"	1'-2"	1'-4"	1'-6"	1'-8"	1'-10"	2'-0"	2'-2"	2'-4"	2'-6"	2'-8"	3'-0"	3'-4"	3'-8"	4'-0"	4'-4"	4'-8"
B	2'-2"	2'-6"	2'-10"	3'-2"	3'-6"	3'-10"	4'-2"	4'-6"	4'-10"	5'-2"	5'-4"	5'-8"	6'-0"	6'-4"	6'-8"	7'-0"	7'-4"
F	1'-2"																1'-4"
Batter	None									½:12							
S	1'-0"									1'-6½"	1'-7"	1'-7½"	1'-8"	1'-8½"	1'-9"	1'-9½"	1'-10"
"b" bars	None									5@15	5@12	5@11	5@8	6@24	6@18	7@17	
"c" bars	4@24	4@18	5@20	5@14	5@10	5@7	6@7½	7@8	7@6	9@15	10@15	10@12	10@11	10@9	10@8	11@9	11@8½
"d" bars	4@24	4@18	5@20	5@14	5@10	6@14	7@15	8@16	7@12	8@15	9@15	9@12	9@11	9@9	9@8	10@9	10@8½
Conc. CY/L.F.	0.32	0.38	0.44	0.49	0.55	0.61	0.67	0.73	0.79	1.02	1.10	1.18	1.26	1.36	1.45	1.55	1.72
Reinf. LBS/L.F.	13	16	19	25	30	37	49	62	76	73	90	104	123	141	170	189	206

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS
STANDARD PIPE CULVERT HEADWALLS TYPES "A", "B" & "C" — D90-1

J. F. DAVIDSON ASSOCIATES
CIVIL ENGINEERS - SURVEYORS - PLANNERS
RIVERSIDE, CALIFORNIA
APPROVED BY George E. McCarty DATE 11/4/66
R.E. No. 10688
W.O. 416 FOR: CITY OF RIVERSIDE F.B.

MARK	REVISIONS	APPR.	DATE

DESIGNED BY ___ DRAWN BY ___ CHECKED BY H.B.L.

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
OFFICE ENGINEER		2-15-68
PARK DEPARTMENT	—	—
TRAFFIC DIVISION	—	—
ASSISTANT CITY		3/1

APPROVED BY
DIRECTOR OF PUBLIC WORKS
DATE 3-4-68

CENTRAL AVENUE
FROM FAIRVIEW AVENUE TO CHAPALA DRIVE.
STATE DIVISION OF HIGHWAY STANDARDS - D84-1; D89-1; D91; D90-1
HORIZ. SCALE: 1" -   VERT. SCALE: 1" -

PROJECT NO. R-1185
SHEET 10 OF 10
FILE NO. 3305

VOID 11/18/68 SEE DWG R-1344