RIVERSIDE CITY OF RIVERSIDE CALIFORNIA

INCORPORATED 1883

PUBLIC WORKS DEPARTMENT

CHICAGO AVENUE EXTENSION

From A.T.S.F. R.R. to Columbia Ave.

PROJECT LENGTH: 975.39 FT. = 0.18 MI. = 0.29 KM.

T.I. = 7

CONSTRUCTION LEGEND

CENTER LINE ——℄——·——
RIGHT-OF-WAY LINE ——R/W——
SUBDIVISION LOT LINE ——ℓ——
TOP OF SLOPE
TOE OF SLOPE
DIRECTION OF FLOW

(A) CONSTRUCT STRUCTURAL SECTION OF ~~0.75' A.C. OVER NATIVE SOIL OR~~ 0.35' A.C. OVER 1.00' BASE MATERIAL (MIN. R=70)

(B) CONSTRUCT STRUCTURAL SECTION OF 0.50' A.C. OVER NATIVE SOIL OR FILL.

(C) CONSTRUCT STRUCTURAL SECTION OF 0.90' A.C. OVER NATIVE SOIL OR FILL.

CONCRETE

(D) OVERLAY A.C. OR CONCRETE WITH A VARIABLE THICKNESS OF ASPHALT CONCRETE.

FILL & EARTH COVER AS SHOWN.

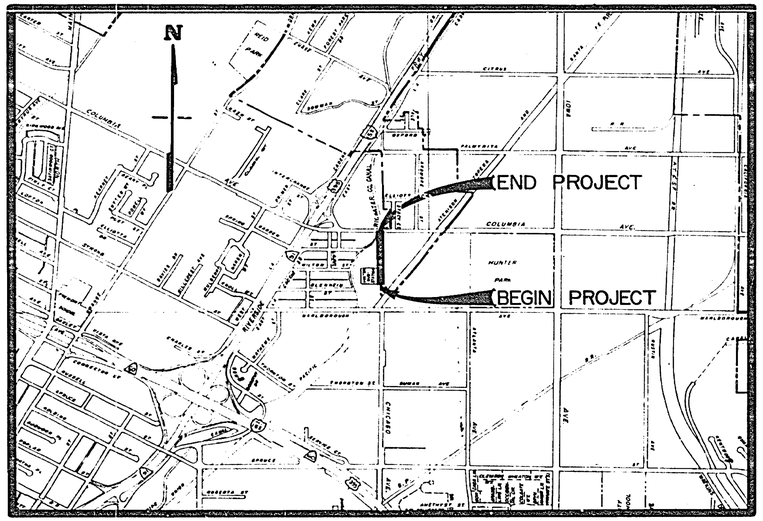
SPECIFIC CONSTRUCTION NOTES

⬡ NUMBERS ABOVE 100 IN A HEXAGON ON THE PLAN REFER TO THE RESPECTIVE STANDARD DRAWING AND SHALL BE CONSTRUCTED ACCORDINGLY, UNLESS MODIFICATIONS ARE NOTED ON THE PLAN OR COVER SHEET BELOW. ANY NUMBER SHOWN BELOW THE STANDARD DRAWING NUMBER INDICATES THE SPECIFIC ALTERNATE TO BE CONSTRUCTED.

⬡ 425 M STANDARD CLEANOUT FOR DROP INLET WITH GRATING IN LIEU OF COVER, SEE SPECIAL PROVISIONS FOR ALTERNATE.

GENERAL CONSTRUCTION NOTES

1. A STATION OPERATOR MUST BE PRESENT IN STATION ANY TIME WORK IS DONE INSIDE FENCE. CALL 787-7944 (BOB THOMAS) AT LEAST 2 DAYS PRIOR TO BEGINNING WORK.
2. STATION SECURITY MUST BE MAINTAINED AT ALL TIMES. (SEE SPECIAL PROVISIONS)
3. RIGHTS OF ENTRY HAVE BEEN OBTAINED FOR WORK SHOWN ON PRIVATE PROPERTY.
4. ALL ELEVATIONS SHOWN ON THE PLAN SHALL BE STAKED IN THE FIELD.
5. SITE GRADING EAST OF THE PROJECT MAY HAVE REMOVED EXISTING FACILITIES SHOWN ON THE PLANS.



PROJECT LOCATION PLAN

0KM 0.5 KM. 1KM 1.5 KM.
0' 500' 1000' 2000' 3000' 4000' 5000' 6000'

SCALE 1" = 1000'

EXISTING UNDERGROUND & TOPOGRAPHY LEGEND

EXISTING UNDERGROUND UTILITIES

SANITARY SEWER	8"S	TELEPHONE CONDUIT	T T
WATER LINE	6"W	ELECTRICAL CONDUIT	E E
STORM DRAIN	24" D	STREET LIGHTING	SL SL
GAS LINE	6"G	TRAFFIC SIGNAL	SIG SIG
IRRIGATION LINE	20" IRR	FIRE ALARM	F F

EXISTING TOPOGRAPHY

BLOCK WALL
BOARD FENCE
WIRE FENCE
CHAIN LINK FENCE
TOP OF SLOPE
TOE OF SLOPE
DIRECTION OF FLOW

SANITARY SEWER MH	POLE W/ GUY ANCHOR	PEDESTRIAN PUSH BUTTON
SANITARY SEWER CLEANOUT	ELECTRIC POLE	RAILROAD TRACKS
STORM DRAIN MH	TELEPHONE POLE	RAILROAD SIGN
IRRIGATION WEIR	JOINT USE POLE	RAILROAD SIGNAL
WATER MH	PULL BOX	STREET LIGHT & TRAFFIC SIGNAL ON MAST ARM
GAS MH	TRAFFIC SIGN	STREET LIGHT (UPRIGHT)
ELECTRIC MH	PARKING METER	STREET LIGHT
TELEPHONE MH OR VAULT	FIRE ALARM BOX	TRAFFIC SIGNAL
WATER METER	STREET NAME SIGN	TRAFFIC SIGNAL ON MAST ARM
FIRE HYDRANT	GAS METER	TRAFFIC SIGNAL CONTROLLER
SPRINKLER HEAD	MAIL BOX	TRAFFIC SIGNAL PRESSURE DETECTOR
VALVE	FAUCET	TRAFFIC SIGNAL LOOP DETECTOR
AIR VALVE	TELEPHONE RISER	
AIR VENT	WHEEL STOP	
	AC BERM	
	STEEL POST	
	WOOD POST	

CONCRETE
ASPHALT
EDGE OF PAVEMENT
BUILDING
UNDERGROUND STRUCTURE
OVERHANGING STRUCTURE

CITRUS TREE
DECIDUOUS TREE
OR
PALM TREE
OR
SHRUBBERY
OR
TREE STUMP
EVERGREEN

SHEET INDEX:

SHEET 1 TITLE SHEET
SHEET 2 SECTIONS & DETAILS, SUBSTATION GROUNDING, WALL DETAIL
SHEET 3 PLAN & PROFILE
SHEET 4 CANAL COVER & DRAINAGE
~~SHEET 5 LANDSCAPE IRRIGATION~~
~~SHEET 6 LANDSCAPE PLANTING~~ DELETED

TRAFFIC SIGN SCHEDULE

TYPE	SIZE	QUANTITY
"N"	18" X 18"	5 EA.
R1	30" OCTOGON	1 EA.
R7	24" X 30"	3 EA.
R10 (RT.)	48" X 16"	2 EA.
W31	30" X 30"	1 EA.
W53	36" X 36"	1 EA.

* AS BUILT 11-17-77 JB

INDEXED TKR

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

	BY	DATE
APPROVED BY		
PRINCIPAL ENGINEER	JBE	1/32
PARK DEPARTMENT		
TRAFFIC DIVISION	[illegible]	4/6/11
CHIEF P/W ENGINEER	[illegible]	9-26

APPROVED BY: [signature] PUBLIC WORKS DIRECTOR
DATE 4-4-77

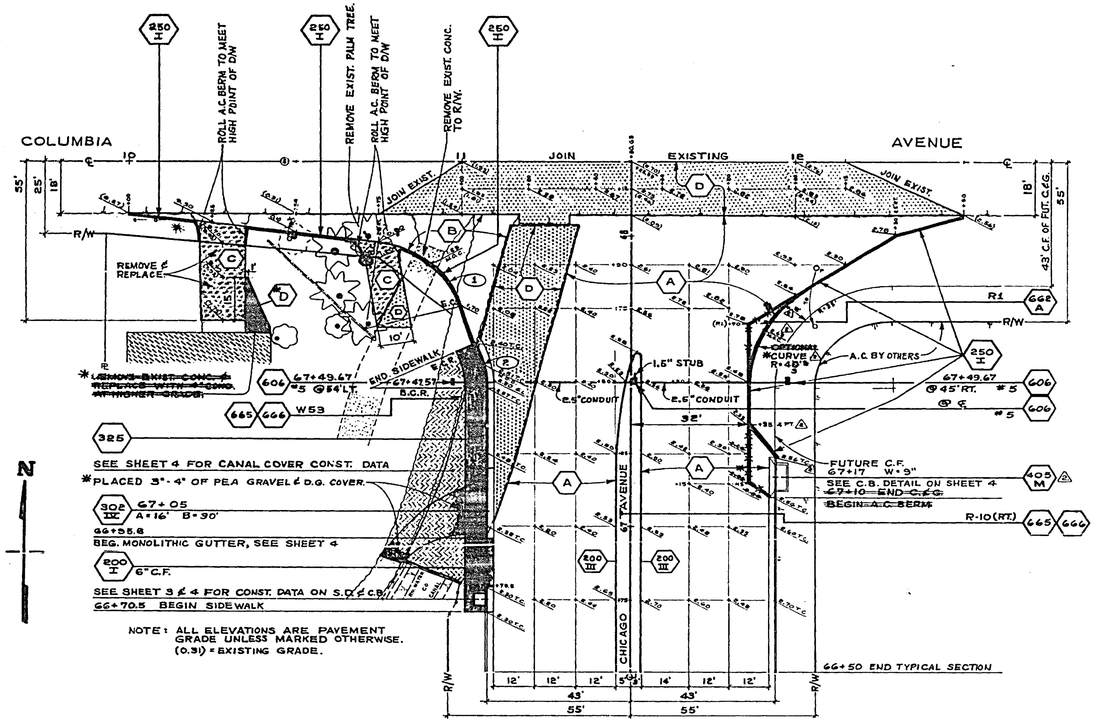
CHICAGO AVENUE EXTENSION
From A.T.S.F. R.R. to Columbia Ave.

DESIGNED BY KLH DRAWN BY JB CHECKED BY [illegible]

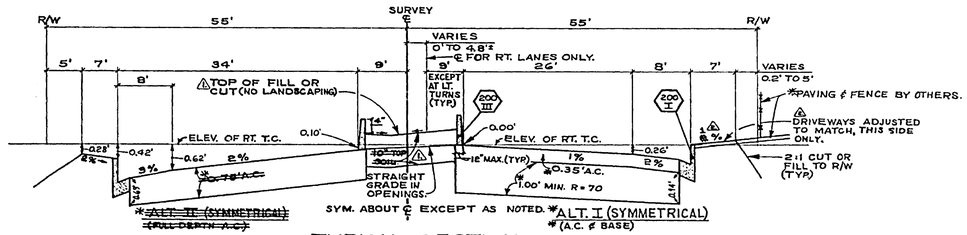
ACCOUNT No. 30575-200 30

DRAWING NUMBER R-1939

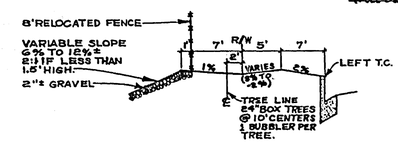
SHEET 1 OF 6



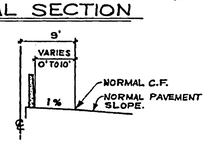
INTERSECTION DETAIL
SCALE 1"=20'



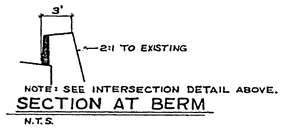
TYPICAL SECTION
N.T.S.



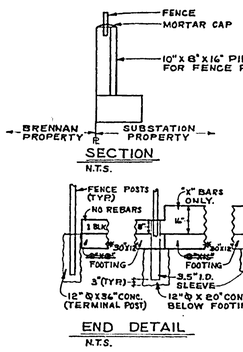
SECTION AT SUBSTATION
N.T.S.



LEFT TURN LANES
N.T.S.



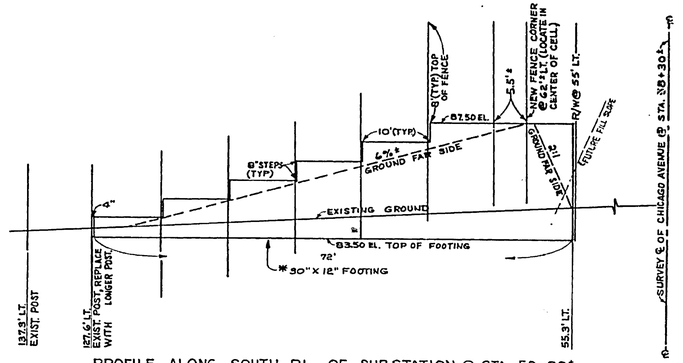
SECTION AT BERM
N.T.S.



SECTION
N.T.S.

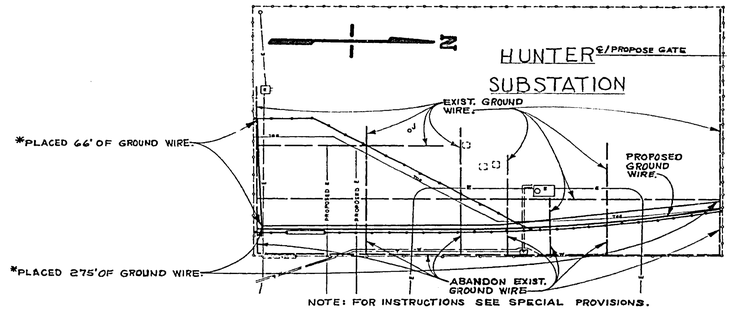
END DETAIL
N.T.S.

NOTE: USE STD. DWG. 707 (UNDER 5')



PROFILE ALONG SOUTH P.L. OF SUBSTATION @ STA. 58+30±
SCALE H: 1"=10' V: 1"=2'

SUB-STATION RETAINING WALL DETAILS



NOTE: FOR INSTRUCTIONS SEE SPECIAL PROVISIONS.

SUBSTATION GROUNDING DETAIL
SCALE 1"=40'

CURVE DATA					
INDEX	R	Δ	T	L
①	30'	67°30'00"	20.05'	35.34'
②	35'	26°37'45"	8.28'	16.27'

APPROVED BY:
DONALD J. CULLEN
SUBSTATION ENGINEER, R.U.D. — DATE 1-22-77

NO.	REVISION	DATE	BY
⚠	DELETE TOP SOIL FOR ...	6-7-77	
⚠	ADDED C.B.@ STA. 67+17 & CHANGED	7-26-77	
—	CROSS SLOPE RIGHT SIDE.		

DESIGNED BY: RCH DRAWN BY: CHECKED BY: WEK

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

	DATE	BY
APPROVED BY		
PRINCIPAL ENGINEER	9/26	
PARK DEPARTMENT		
TRAFFIC DIVISION	11-17-77	
DEPUTY W. ENGINEER	4-26	
PUBLIC WORKS DIRECTOR	DATE 4-26-77	

* AS BUILT 11-17-77

CHICAGO AVENUE EXTENSION
From A.T.S.F. R.R. to Columbia Ave.

ACCOUNT No. 30-575-200-30
R-1939
SHEET 2 OF 6

GROUND LINE 63' LT.

100' V.C.

88.12 B.V.C. 87.98 BEG. C.&G. 87.5 STA. 58+43

85.98 B.V.C. 85.53 85.18 P.I.V.C. 84.98 84.93 84.78 E.V.C.

EXIST. GROUND @ LT. CURB

LEFT T.C. 6"C.F. -0.40%

4'± COVER

88.40 B.V.C. 88.0 STA. 58+20 BEG. C.&G. -2.00%

86.40 B.V.C. 85.95 85.40 P.I.V.C. 85.35 84.80 E.V.C.

RIGHT T.C. 6"C.F. -0.40%

EXIST. GROUND @ RT. CURB

82.38 82.30 82.56

66+75 SEE SHEET 2 & 4 FOR CONST. DATA BEYOND THIS PT.

6" MEDIAN DRAIN

IE 79.80 INLET

IE 77.30 INLET (30°)

67+40 END C.F.G. SEE SHEET 2 FOR SPOT ELEV. BEYOND THIS PT.

SEE SHEET 2 FOR GROUNDING DETAIL.

HUNTER SUBSTATION

INSTALL 20' HINGED GATE BUBBLERS ONLY

ONE BUSH PER BUBBLER (TYP.)

*RISERS FOR FUTURE BUBBLERS @ 10' C.C.

POSSIBLE DISPOSAL AREA FOR EXCESS MATERIAL. TOP ELEV. 87.5

CONC. FILLED 10.5' 1½% SLOPE W/W

20' ROLLING GATE

DEPRESS 33.4' A=26° B=34' 58+75 16FT LT.

6' C.F.

STOCK PILE & REUSE GRAVEL

TEMPORARY FENCE(6')

59+41.84 ℄ SURVEY ℄, LT. MED. CURB & LT. C.&G.

REMOVE

RELOCATE EXISTING CONTROLS OUTSIDE NEW FENCE.

RELOCATED FENCE(6')

TREE & BUBBLER(TYP.)

60+16.98 ℄ SURVEY ℄ L.F.G. PRC, & P.R.C. 67+08

PLACED 20 L.F. OF ¾" GALV. PIPE.

REMOVE

6" C.F.

1" WATER LINE BY OTHERS.

50' OF 1" HDG. CONDUIT W/ 2-#8 & #10 GRD. WIRE IN ALL AT POLE & CAP ABOVE GRADE. 24" COVER.

R-10(RT)

L=50' W=4'

R7 & TYPE "N" YELLOW MARKER

180' OF 2" CLASS 200 PVC PIPE 24" COVER, PLUG BOTH ENDS.

64+55 A=24° B=38'

1" WATER LINE BY OTHERS. & 1" GAS BY OTHERS. #64+92

R7 & TYPE "N" YELLOW MARKER.

L=50' W=5'

6" C.F.

(FUTURE) 2" PVC. TELE. CONDUIT.

R10(RT.)

66+75 W=8.0'

R7 & TYPE "N" YELLOW MARKER

FOR CANAL COVER SEE SHEET 4

FOR INTERSECTION DETAIL SEE SH. 2

67+08 BEGIN FLARE

67+58 R11.5' P.I. NOSE

11 AVE.

N89°52'46"W 1E405.45 4

COLUMBIA

11°50.39' COLUMBIA

N89°52'46"W 68+25.39 CHICAGO

AVENUE

A.T.&S.F. R.R.

CHICAGO AVENUE

MARLBOROUGH AVENUE

N00°08'07"E

PLACE 300 L.F. OF 6" A.C.P. @ 0.40%

63+45 BEGIN FLARE

65+46 END FLARE

65+16 R=1.5' FOR NOSE

64+38.54 E.C.

64+11.98 E.C. SURVEY ℄, LT. C.&G.

63+75 ℄ D.I.

N76°40'02"E

L=120' W=10'

TO BE RELOCATED BY OTHERS.

GUARD RAIL (BY OTHERS)

*C.L. FENCE & A.C. PAVEMENT BY OTHERS.

59+30 A=32° B=46'

59+61.44 P.C.

110' OF 5' CHAINLINK FENCE, SEE SPEC. PROVISIONS.

58+50 BEGIN RT. C.&G. & A.C. PAVEMENT.

*C.L. FENCE BY OTHERS

F.A.C. PAVEMENT BY OTHERS

6" DIA. TYPE "N" RED MARKERS WITH REFLECTIVE WHITE MARKERS ON C.L. FENCE.

58+90 BEGIN MEDIAN CURBS AND LANDSCAPING.

65+84 A=32° B=46'

*C.L. FENCE BY OTHERS

F.A.C. PAVEMENT BY OTHERS

6" WATER LINE BY OTHERS.

66+93 ℄ D.I. WITH 40"x18" OPEN RECTANGULAR GRATE.

67+17 SEE C.B. DETAIL ON SHEET 4

NOTE: ALL UTILITIES ARE BELOW S.D.

NOTE: A.C. PLACED TO BACK OF CURB ON THIS SIDE, BY OTHERS.

*AS BUILT 11-18-77

CURVE	Δ	R	T	L
C	13°28'05"	1000'	118.07'	235.06'
B	13°28'05"	957'±	113.00'	224.95'
S	13°28'05"	1048'±	123.15'	245.17'

MARK	REVISIONS	APP'D	DATE
	D/W & SIGN CHANGES, ADDED		
	WATER SERVICES, ADDED		
	FACILITIES FOR FUTURE LANDSCAPING		6-7-77
A	ADDED C.B. STA 67+17 RT. & WORK BY OTHERS, ETC.		7-21-77

DESIGNED BY RW DRAWN BY RW CHECKED BY RW

APPROVED BY	DATE	BY
PRINCIPAL ENGINEER		
PARK DEPARTMENT		
TRAFFIC DIVISION		
CHIEF P.W. ENGINEER		

APPROVED BY: Donald J. Coogan, SUBSTATION ENGINEER, R.U.D. — DATE 4-22-77

F.B. 990/77
ELEV. 886.90
B.M. NORTH WESTERLY BOLT ON RX R LIGHTS 52'± SOUTHERLY OF ℄ MARLBOROUGH ℄ 15'± WESTERLY OF THE WESTERLY RAIL OF A.T.&S.F. R.R.

-CAUTION-
PACIFIC TELEPHONE CABLES UNDERGROUND BEFORE EXCAVATING CALL COLLECT:

	7:30 A.M. to 5 P.M.	After Hours & Holidays
Orange County	714-633-0811	714-547-6606
Riverside County	714-684-0071	714-547-6606
Inyo County	714-684-0071	714-547-6606
San Bernardino County	714-684-0071	714-547-6606
Los Angeles County	213-621-3111	24 HOUR SERVICE
Ventura County	213-621-3111	
San Diego County	714-298-0595	714-232-0027

FOR FREE CABLE LOCATING SERVICE

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY: Donald J. Coogan, PUBLIC WORKS DIRECTOR — DATE 4-26-77

CHICAGO AVENUE EXTENSION

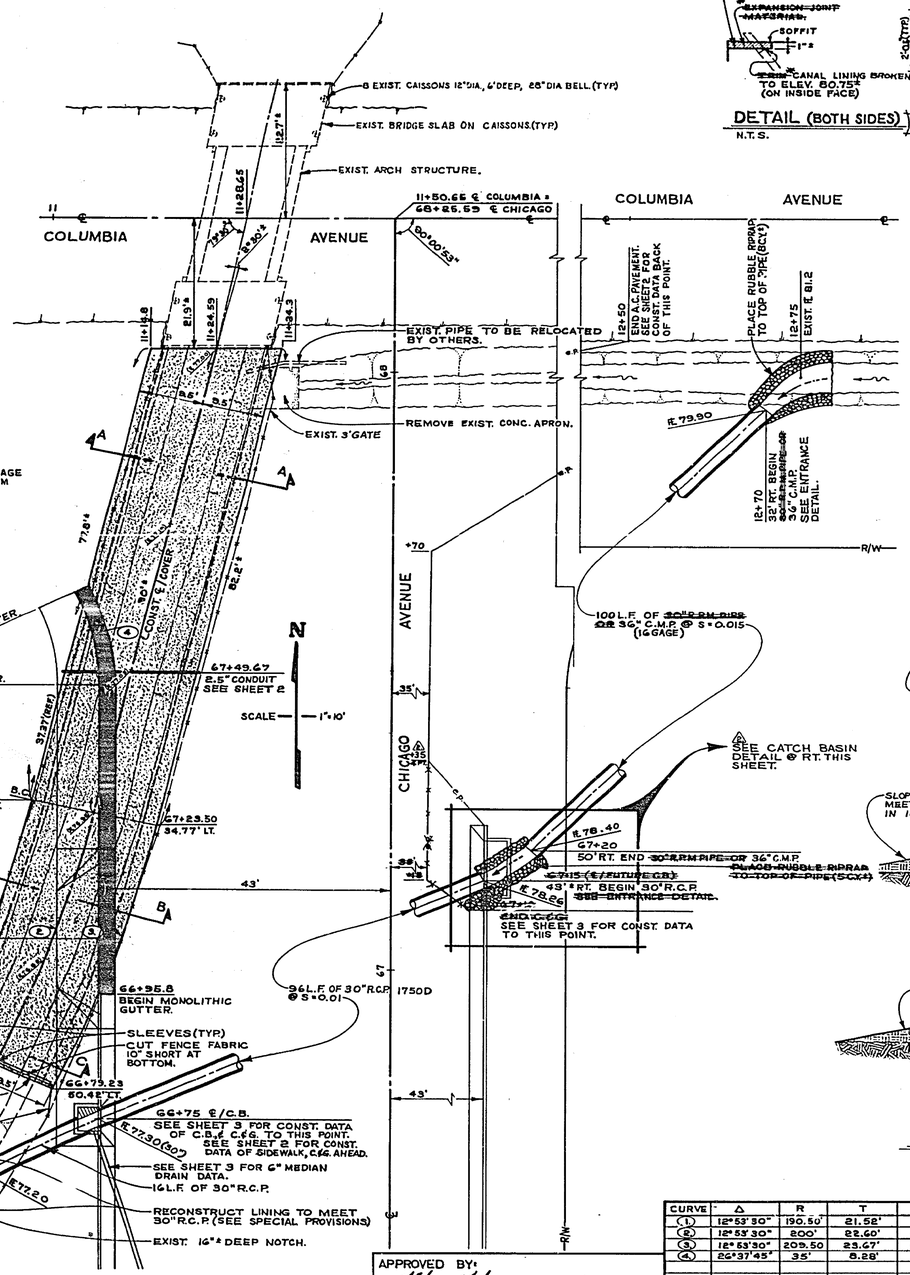
From A.T.S.F. R.R. to Columbia Ave.

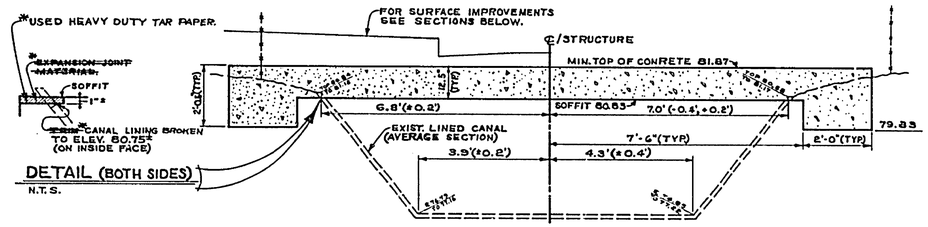
HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 2'

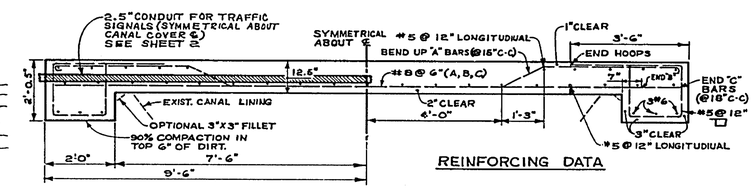
ACCOUNT NO. 30-575-200-30

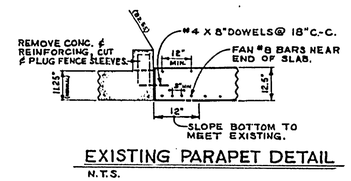
R-1939

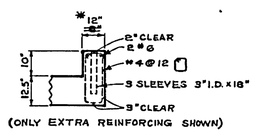
SHEET 3 OF 6

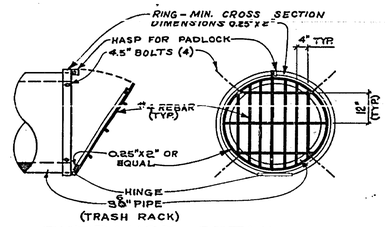


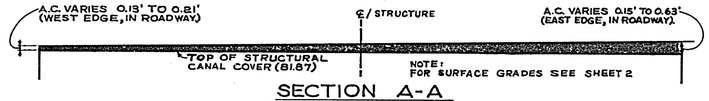


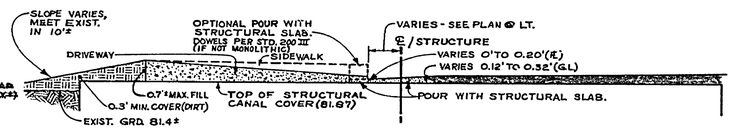


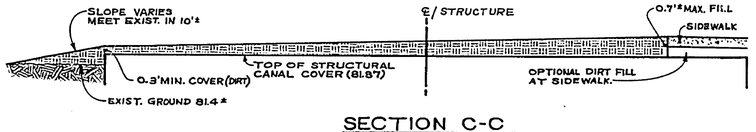




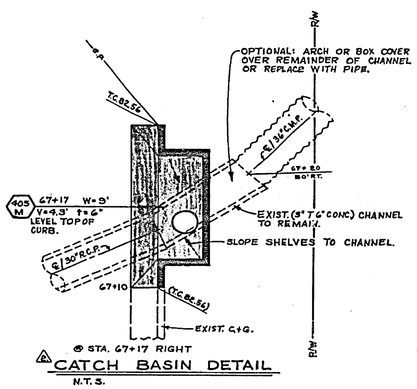








CANAL COVER SECTIONS FOR SURFACE TREATMENT



APPROVED BY:
CHIEF UTILITIES ENGINEER, WATER — 4-26-77 DATE

CURVE	Δ	R	T	L
①	12°53'30"	190.50'	21.52'	42.86'
②	12°53'30"	200'	22.60'	45.00'
③	12°53'30"	209.50	23.67'	47.14'
④	26°37'45"	35'	8.88'	16.27'

⚠ ADDED C.B. @ STA. G7+17 RT. BCH 7-26-77

MARK REVISIONS APPR. DATE

DESIGNED BY JCH DRAWN BY JB CHECKED BY WK

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY	DATE	BY
PRINCIPAL ENGINEER		
PARK DEPARTMENT		
TRAFFIC DIVISION		
CHIEF P.W. ENGINEER	4-26	

APPROVED BY: PUBLIC WORKS DIRECTOR
DATE 4-26-77

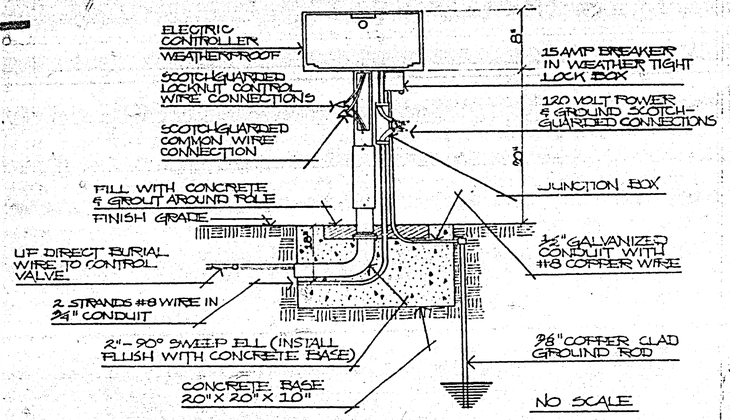
CHICAGO AVENUE EXTENSION
From A.T.S.F. R.R. to Columbia Ave.

ACCOUNT NO. 30-575-200 30

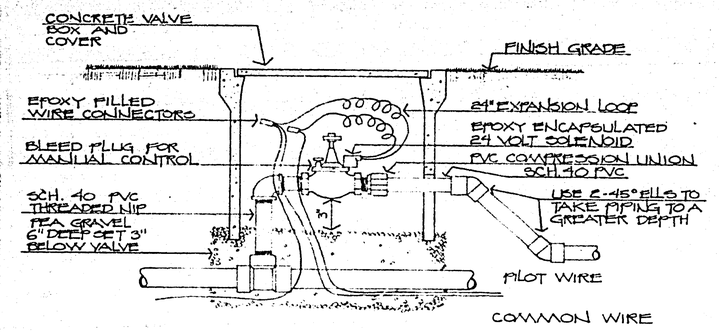
R-1939

SHEET 4 OF 6

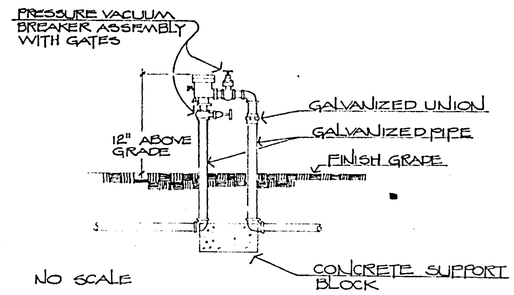
*AS BUILT 1-18-77 JB



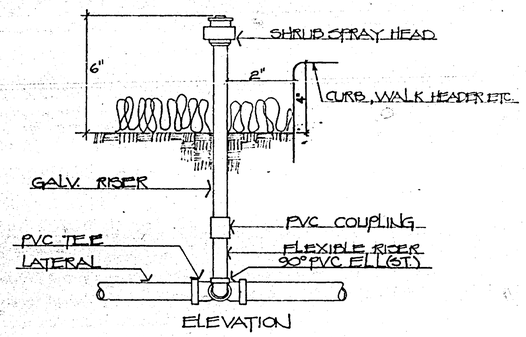
CONTROL DETAIL



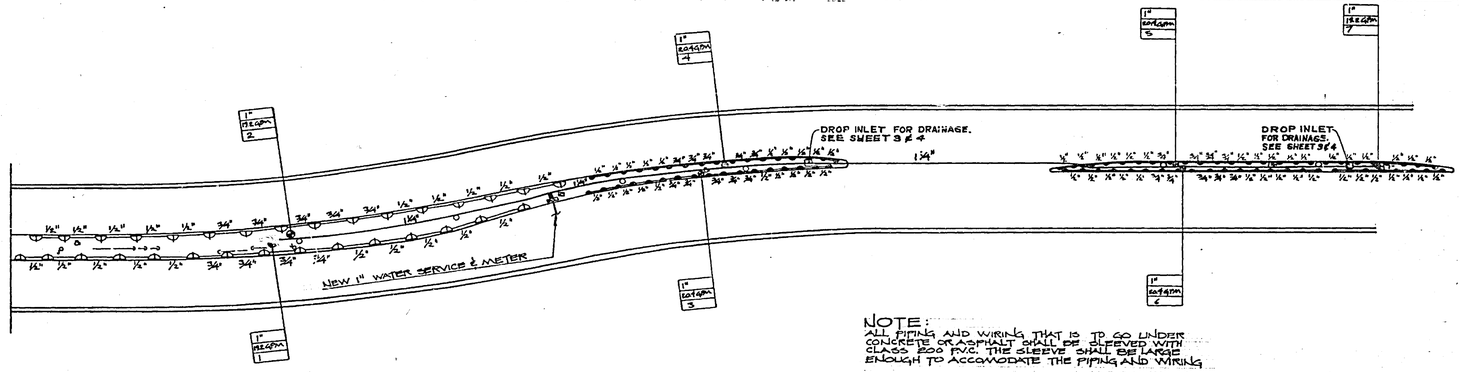
REMOTE CONTROL VALVE



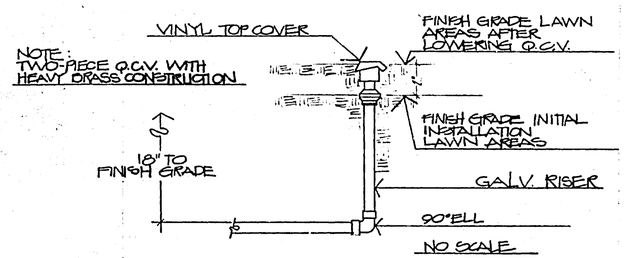
PRESSURE VACUUM BREAKER



SHRUB SPRAY HEAD DETAIL



NOTE:
ALL PIPING AND WIRING THAT IS TO GO UNDER CONCRETE OR ASPHALT SHALL BE SLEEVED WITH CLASS 200 PVC. THE SLEEVE SHALL BE LARGE ENOUGH TO ACCOMODATE THE PIPING AND WIRING



QUICK COUPLER VALVE

NORTH
SCALE: 1" = 40'

IRRIGATION LEGEND

"DELETED" 6/21/77 PER C.K.

symbol	manufacturer	model no.	description	nozzle	radius	g.p.m.	p.s.i	pattern
▲	THOMPSON	117 H6	BRASS SHRUB HEAD		8'	1.2	12	HALF
◭	THOMPSON	117 MSH	BRASS SHRUB HEAD		19'	1.2	25	HALF
⊕	RAINBIRD	EFA 100	ELECTRIC CONTROL VALVE W/ BRASS BOOT & FLOW CONTROL					
			MODIFIED VALVE BOX 48"X 24" X 18" 4 STATION					
Ⅱ	FEBCO	765	PRESSURE VACUUM BREAKER 1"					
	C		CLASS 200 PVC LATERAL LINE					
			SCHEDULE 40 PVC MAIN LINE					
⊡	RAINBIRD	RAINCLOX RC-8A-DP	ELECTRIC CONTROLLER 8 STATION					
○	RAINBIRD	44-44K	1" - 2 PIECE QUICK COUPLER W/ LOCKING TOP					

"DELETED"

MARK	REVISIONS	APPR	DATE

DESIGNED BY C.K. DRAWN BY C.K. CHECKED BY [illegible]

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

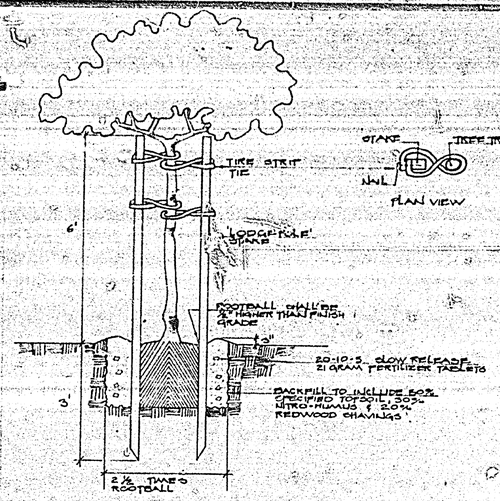
APPROVED BY	BY	DATE
PRINCIPAL ENGINEER	[illegible]	9/16
PARK DEPARTMENT	[illegible]	[illegible]
TRAFFIC DIVISION	—	—
CHIEF P. W. ENGINEER	[illegible]	6-30

APPROVED BY [illegible]
PUBLIC WORKS DIRECTOR
DATE 4-26-77

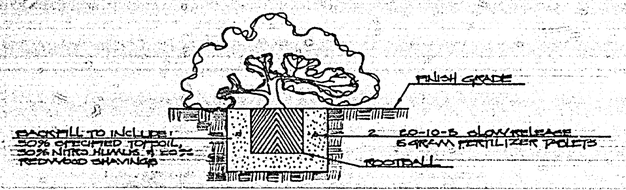
CHICAGO AVENUE EXTENSION
irrigation plan
FROM A.T.&S.F. R.R. TO COLUMBIA AVE.

ACCOUNT No. 30-575 200-30
R-1939
SHEET 5 OF 6

"DELETED"



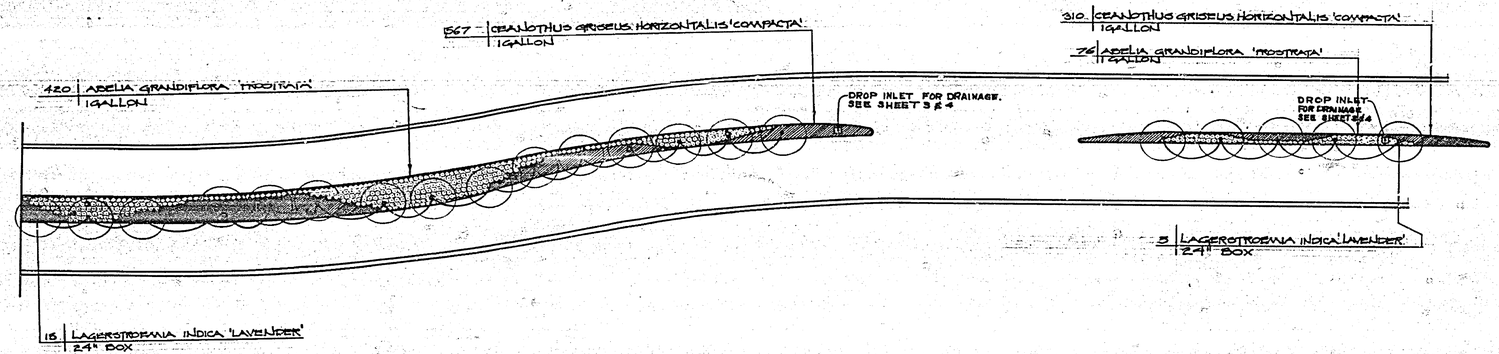
TREE STAKING DETAIL



SHRUB PLANTING DETAIL

PLANT LIST

botanical name	common name	size	quantity	remarks
TREES				
LAGERSTROEMIA INDICA LAVENDER	PURP. CRAPE MYRTLE	24" BOX	20	STANDARD TREE.
SHRUBS				
ABELIA GRANDIFLORA 'PROSTRATA'		1 GALLON	496	PLANT 3½' O.C.
CEANOTHUS GRISEUS HORIZONTALIS 'COMPACTA'	COMPACT CARMEL CEANOTHUS	1 GALLON	1877	PLANT 3' O.C.



NORTH
SCALE: 1" = 40'

"DELETED"
5/31/77 PER G.K.

MARK	REVISIONS	APPR.	DATE

DESIGNED BY G.R.K. DRAWN BY G.R.K. CHECKED BY R.L.

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER	[illegible]	4/24
PARK DEPARTMENT	[illegible]	4/24
TRAFFIC DIVISION		
CHIEF P. W. ENGINEER	[illegible]	4-26

APPROVED BY [signature]
PUBLIC WORKS DIRECTOR
DATE 4-26-77

CHICAGO AVENUE EXTENSION
planting plan
FROM A.T.&S.F. R.R. TO COLUMBIA AVE.

ACCOUNT NO. 30-575-200-30
R-1939
SHEET 6 OF 15

"DELETED"