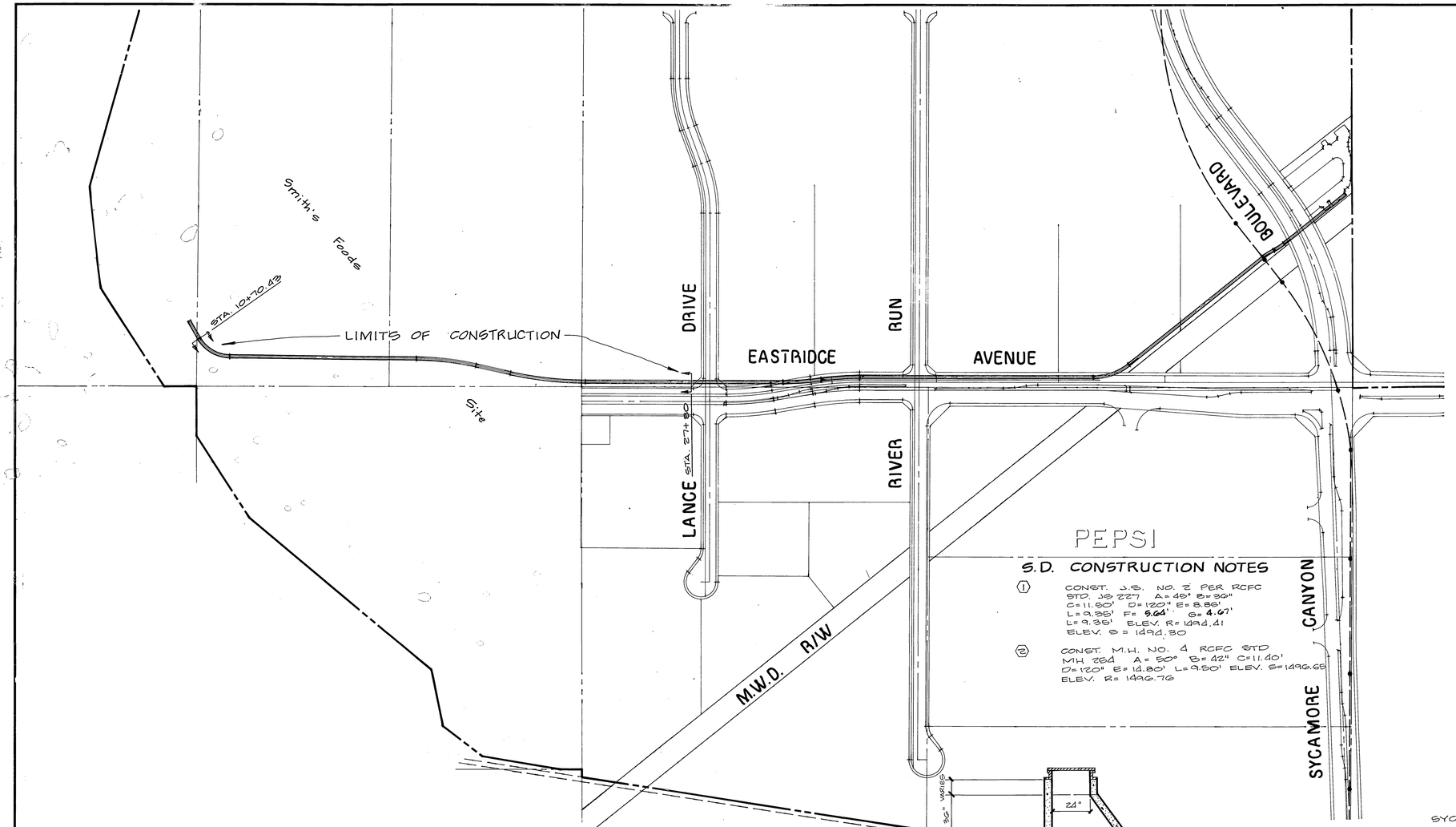
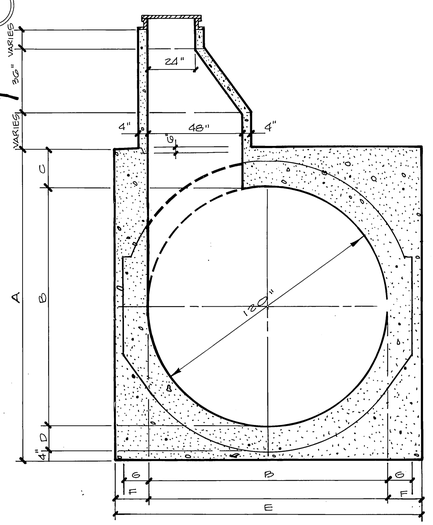


S.D. CONSTRUCTION NOTES

1. CONST. J.S. NO. 2 PER RCFC STD. JS 227 A=48" B=36" C=11.50' D=120" E=8.86' L=9.35' F=5.04' G=4.67' L=9.35' ELEV. R=1094.41 ELEV. G=1094.30
2. CONST. M.H. NO. 4 RCFC STD MH 264 A=50" B=42" C=11.40' D=120" E=14.80' L=9.50' ELEV. S=1096.68 ELEV. R=1096.76



DIA.	A	B	C	D	E	F	MIN. G
54"	75"	54"	11 1/2"	5 1/2"	75"	10 1/2"	5 1/2"
60"	82"	60"	12"	6"	82"	11"	6"
66"	89"	66"	12 1/2"	6 1/2"	89"	11 1/2"	6 1/2"
72"	96"	72"	13"	7"	96"	12"	7"
84"	110"	84"	14"	8"	110"	13"	8"
96"	124"	96"	15"	9"	124"	14"	9"
108"	139"	108"	16 1/2"	10 1/2"	139"	15 1/2"	10 1/2"
120"	154"	120"	18"	12"	154"	17"	12"

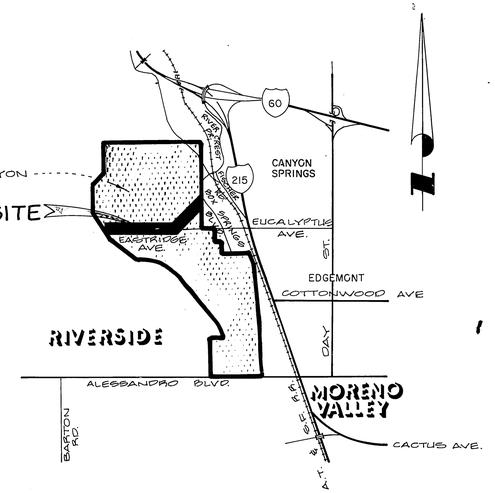
ALTERNATE S.D. MANHOLE
N.T.S.

STORM DRAIN GENERAL NOTES:

1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CLEAR THE RIGHT OF WAY IN ACCORDANCE WITH THE PROVISIONS OF LAW AS IT AFFECTS EACH UTILITY INCLUDING IRRIGATION LINES AND APPURTENANCES AND AT NO COST TO THE CITY.
2. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF RIVERSIDE DEPARTMENT OF PUBLIC WORKS, STANDARD DRAWINGS, AND THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CURRENT EDITION.
3. THE PRIVATE ENGINEER SIGNING THESE PLANS IS RESPONSIBLE FOR ASSURING THE ACCURACY AND ACCEPTABILITY OF THE WORK HEREON IN THE EVENT OF DISCREPANCIES ARISING DURING CONSTRUCTION, THE PRIVATE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISING THE PLANS FOR APPROVAL BY THE CITY.
4. THE DEVELOPER SHALL BE RESPONSIBLE FOR PRESERVING OR REESTABLISHING AND REFERENCING SURVEY MONUMENTS DESTROYED, DISTURBED OR BURIED AS A RESULT OF CONSTRUCTION SHOWN HEREON.
5. ALL FLAGGED ELEVATIONS SHALL BE STAKED IN THE FIELD BY THE PRIVATE ENGINEER.
6. THE CONTRACTOR SHALL CALL IN A LOCATION REQUEST TO UNDERGROUND SERVICE ALERT (USA), PHONE NO. 1-800-422-4133, TWO WORKING DAYS BEFORE DIGGING. NO CONSTRUCTION PERMIT WILL BE ISSUED BY THE PUBLIC WORKS DEPARTMENT INVOLVING EXCAVATION FOR UNDERGROUND FACILITIES UNLESS THE APPLICANT HAS BEEN PROVIDED AN INQUIRY IDENTIFICATION NUMBER BY U.S.A.
7. ON ALL AREAS WITHIN PUBLIC RIGHT OF WAY WHERE THE FILL IS ONE (1) FOOT OR GREATER, A LETTER WILL BE REQUIRED FROM THE SOILS ENGINEER, CERTIFYING THE COMPACTION OF THE FILL BELOW SUBGRADE, PRIOR TO ISSUANCE OF THE CONSTRUCTION PERMIT/CUT SHEETS.
8. BEFORE THE RIP RAP IS ACCEPTED, AS PLACED, AT THE OUTLET OF ANY DRAINAGE STRUCTURE, IT SHALL BE TESTED UNDER FLOWS AS CLOSE AS POSSIBLE TO DESIGN CONDITIONS WITH WATER OBTAINED FROM FIRE HYDRANTS IN THE IMMEDIATE AREA.

NOTICE TO CONTRACTOR

1. THE EXISTANCE, HORIZONTAL AND VERTICAL LOCATIONS OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITIES EXCEPT THOSE SHOWN ON THESE PLANS.
2. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS. LOCATIONS OF UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION.
3. CALL UNDERGROUND SERVICE ALERT (U.S.A.) 1-800-422-4133 AT LEAST 48 HOURS PRIOR TO EXCAVATION.



VICINITY MAP
N.T.S.

BENCH MARK

U.S.C.& G.S. DESIGNATION Z 749 , RIVERSIDE COUNTY DESIGNATION 600-47-68 , STANDARD BRASS DISK STAMPED Z 749 1945 ESTABLISHED BY C.& G.S. 1.7 MILES NORTHWEST ALONG THE ATCHISON& TOPEKA AND SANTA FE RAILWAY FROM THE STATION AT MARCH FIELD, SET BETWEEN THE TRACK AND U.S. HIGHWAY NO. 395 (I 215) 64.5 FEET SOUTHWEST OF THE SOUTHWEST EDGE OF THE HIGHWAY, 43.8 FEET NORTHEAST OF THE NORTHEAST RAIL OF TRACK, 20 FEET SOUTHEAST OF POST, IRON BENCH MARK DISK SET IN TOP OF A CONCRETE POST 0.4 FEET ABOVE GROUND.

DATE 1970 ELEVATION: 1536.119

BUSINESS TAX CERTIFICATE NO. 5751 EXPIRATION DATE: 12-31-92

ALBERT A. WEBB ASSOCIATES
CIVIL ENGINEERS
RIVERSIDE, CALIFORNIA
APPROVED BY Matthew E. Webb DATE 5/6/92
R.E. No. 37385

W.O.90-3000 FOR:CITY OF RIVERSIDE F.B. 1034

MARK	REVISIONS	APPR.	DATE

DESIGNED BY J.V.P. DRAWN BY D.R.Z. CHECKED BY M.E.W.

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		6/19/92
~~PARK DEPARTMENT~~		
~~TRAFFIC DIVISION~~		
CHIEF PUB.WKS.ENGR.		6/19/92

APPROVED BY
DIRECTOR OF PUBLIC WORKS
DATE 6/19/92

SYCAMORE CANYON BUSINESS PARK
STORM DRAIN
EASTRIDGE AVE. SECTION

SCALE: 1" = 40'

ACCOUNT No. 90-3000
DRAWING NUMBER
D-615
SHEET 1 OF 3
90-3000-D

INDEXED 7-16-92 LFH

FUTURE CONTRACT

THIS CONTRACT

PROPOSED GRADE

EXISTING GROUND

H.G.L.

W.S.E. 1

CONSTRUCT 130.63 L.F. 120" CAST-IN-PLACE CONC. STORM DRAIN

CONSTRUCT 129.63 L.F. 120" CAST-IN-PLACE CONC. STORM DRAIN

$Q_{100} = 1094$ CFS
$V = 13.9$ FPS

CONSTRUCT 651.17 L.F. OF 120" CAST-IN-PLACE CONC. STORM DRAIN

$Q_{100} = 1061$ CFS
$V = 13.5$ FPS

$Q_{100} = 1061$ CFS.
$V = 13.5$ FPS

W.S.E. 1505.3

H.G.L.

W.S.E. 1504.5

S=0.0040

S=0.0040

1+11.07 BEGIN 42" LATERAL

1+11.07 END 42" LATERAL

1+51.23 MAIN LINE = 14+22.42

1+51.23 ℄ MAIN LINE

1+00 ℄ 30" LATERAL

1+00 BEGIN 30" RCP

1+11.05 END 30" RCP

1+11.05 LIMITS OF CONSTRUCTION

1+00.00 BEGIN 120" CAST-IN-PLACE STORM DRAIN

9140.00

10+00.00

WILDERNESS PARK BOUNDARY

BULKHEAD PER STD. NO. 420

LIMITS OF WORK

30" RCP PRIVATE S.D.

30' STORM DRAIN EASEMENT

36" RCP PRIVATE S.D.

PROPOSED 120" CAST-IN PLACE CONCRETE

N.89°50'18"W. 651.17'

STD. DWG. 462 FOR PIPE BEDDING. CASE I

STD. DWG. 462 FOR PIPE BEDDING. CASE II

PROPOSED BUILDING

SMITHS FOOD & DRUG

SEE SHEET 3

SCALE: 1" = 40'

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

CURVE DATA

	Δ	R	T	L
①	59° 25' 05"	185.00'	71.32	129.63
②	12° 00' 00"	1000.00'	105.10'	209.44

NOTE: RAILROAD CROSSING 25' EACH SIDE OF R.R. TO BE INCREASED TO 5000 PSI @ 28 DAYS

SEE SHEET NO. 1 FOR S.D. CONSTRUCTION NOTES

BENCH MARK

U.S.C.& G.S. DESIGNATION Z 749 , RIVERSIDE COUNTY DESIGNATION 600-47-68 . STANDARD BRASS DISK STAMPED Z 749 1945 ESTABLISHED BY C.& G.S. 1.7 MILES NORTHWEST ALONG THE ATCHISON, TOPEKA AND SANTA FE RAILWAY FROM THE STATION AT MARCH FIELD. SET BETWEEN THE TRACK AND U.S. HIGHWAY NO. 395 (I 215) 64.5 FEET SOUTHWEST OF THE SOUTHWEST EDGE OF THE HIGHWAY, 43.6 FEET NORTHEAST OF THE NORTHEAST RAIL OF TRACK, 20 FEET SOUTHEAST OF POST, IRON BENCH MARK DISK SET IN TOP OF A CONCRETE POST 0.4 FEET ABOVE GROUND.

DATE 1970 ELEVATION: 1536.119

REGISTERED PROFESSIONAL ENGINEER MATTHEW E. WEBB NO. 37385 EXP. 6-30-92 CIVIL STATE OF CALIFORNIA

BUSINESS TAX CERTIFICATE NO. 5751 EXPIRATION DATE: 12-31-92

UNDERGROUND SERVICE ALERT
CALL: TOLL FREE 1-800 422-4133
TWO WORKING DAYS BEFORE YOU DIG

ALBERT A. WEBB ASSOCIATES
CIVIL ENGINEERS
RIVERSIDE, CALIFORNIA
APPROVED BY Matthew E. Webb DATE 3/31/92
R.E. No. 37385
W.O.90-3000 FOR: CITY OF RIVERSIDE F.B. 1034

MARK	REVISIONS	APPR.	DATE

DESIGNED BY J.V.P. DRAWN BY D.R.Z. CHECKED BY M.E.W.

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		6/30/92
PARK DEPARTMENT		6/30/92
TRAFFIC DIVISION		
CHIEF PUB. WKS. ENGR.		

APPROVED BY
DIRECTOR OF PUBLIC WORKS
DATE 6/19/92

SYCAMORE CANYON BUSINESS PARK
STORM DRAIN
EASTRIDGE AVENUE
STA. 9+40.00 TO STA. 18+51.23
SCALE: 1" = 40'

ACCOUNT No. 90-3000
DRAWING NUMBER D-615
SHEET 2 OF 3
90-3000-D

INDEXED 7-16-92 LH

RIVERSIDE BLUEPRINT - RIVERSIDE, CALIF.

THIS CONTRACT — FUTURE CONTRACT

STA. 18+51.23 = 8" WMH #4 (INV. 1494.44)
12" C.I.P.C. (MIN. 2.5%)

STA. 22+90 = 8" WMH #3 (INV. 1492.22)
12" C.I.P.C. (MIN. 2.5%)

STA. 27+80 = 8" WMH #2 (INV. 1490.82)
12" C.I.P.C. (MIN. 2.5%)

STA. 30+00 = 8" WMH #1 (INV. 1490.56)
12" C.I.P.C. (MIN. 2.5%)

$Q_{100} = 1014.7$ CFS
$V = 12.9$ FPS

$Q_{100} = 524.5$ CFS
$V = 6.7$ FPS

PROPOSED GRADE

EXISTING GROUND

H.G.L.

CONSTRUCT 209.44 L.F. OF 120" CAST-IN-PLACE CONC. STORM DRAIN

CONST. 123.77 L.F. OF 120" CAST-IN-PLACE CONC. STORM DRAIN.

CONSTRUCT 262.97 L.F. OF 120" CAST-IN-PLACE CONC. STORM DRAIN.

CONSTRUCT 552.59 L.F. OF 120" CAST-IN-PLACE CONC. STORM DRAIN

W.S.L. 1507.9

W.S.L. 1515.3

W.S.L. 1510.90

W.S.L. 1497.10

1490.68 INV.

1490.82 INV.

1491.19

1492.22 INV.

1492.36 INV.

1494.44 INV.

1494.56 INV.

1500.37 INV.

1500.50 INV.

1500.71 INV.

1500.84 INV.

1501.04 INV.

1501.17 INV.

S=0.003486

S=0.00220

S=0.0040

1520
1510
1500
1490

19 20 21 22 23 24 25 26 27 28 29 30

THIS CONTRACT — FUTURE CONTRACT

+21.01 END 42" RCP
LIMITS OF CONSTRUCTION
11+11.07 BEGIN 42" RCP LATERAL

PROPOSED 42" RCP (PRIVATE S.D.)

BULKHEAD PER STD. NO. 456

STA. 18+51.23 = 8" WMH #4 (INV. 1494.44) 12" LATERAL

STD. DWG. 452 FOR PIPE BEDDING CASE II

PROPOSED 120" CAST-IN PLACE CONCRETE

N. 77°50'18" W. 123.77'

30' STORM DRAIN EASEMENT

23+00 = 8" MWH #2 R.C.P.C. (MIN. 2.5%)

SMITHS FOOD & DRUG

SCALE: 1" = 40'

SEE SHEET 2

SEE SHEET NO. 1 FOR S.D. CONSTRUCTION NOTES

	DELTA/BEARING	RADIUS	LEN./01ST.	TANGENT
①	12° 00' 00"	1000.00'	209.44'	105.10'
②	12° 33' 22"	1200.00'	262.97'	132.02'

LANCE DRIVE

BULKHEAD PER STD. NO. 456

LIMIT OF WORK 27+80

STA. 30+00 = 8" MWH #1 R.C.P.C. (MIN. 2.5%)

PROPOSED 42" RCP

STD. DWG. 452 FOR PIPE BEDDING CASE I

690.23'

N. 89° 36' 20" E.

53' R.I.E.

PROPOSED 36" RCP

EASTRIDGE AVENUE

SEE SHEET 4

151 152 153 154 155 156 157

BENCH MARK

U.S.C.& G.S. DESIGNATION Z 749 . RIVERSIDE COUNTY DESIGNATION 600-47-68 , STANDARD BRASS DISK STAMPED Z 749 1945 ESTABLISHED BY C.& G.S. 1.7 MILES NORTHWEST ALONG THE ATCHISON, TOPEKA AND SANTA FE RAILWAY FROM THE STATION AT MARCH FIELD, SET BETWEEN THE TRACK AND U.S. HIGHWAY NO. 395 (I 215) 64.5 FEET SOUTHWEST OF THE SOUTHWEST EDGE OF THE HIGHWAY, 43.6 FEET NORTHEAST OF THE NORTHEAST RAIL OF TRACK, 20 FEET SOUTHEAST OF POST, IRON BENCH MARK DISK SET IN TOP OF A CONCRETE POST 0.4 FEET ABOVE GROUND.

DATE 1970 ELEVATION: 1536.119

REGISTERED PROFESSIONAL ENGINEER — MATTHEW E. WEBB — NO. 37385 EXP. 6-30-92 — CIVIL — STATE OF CALIFORNIA

BUSINESS TAX CERTIFICATE NO. 5751 EXPIRATION DATE: 12-31-92

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TWO WORKING DAYS BEFORE YOU DIG

ALBERT A. WEBB ASSOCIATES
CIVIL ENGINEERS
RIVERSIDE, CALIFORNIA
APPROVED BY Matthew E. Webb DATE 3/31/92
R.E. No. 37385

W.O.90-3000 FOR: CITY OF RIVERSIDE F.B. 1034

MARK	REVISIONS	APPR.	DATE
1	LOWERED STORM DRAIN FROM STA. 23+00 TO STA. 21+80 AC	MEW	6/19/92

DESIGNED BY J.V.P. DRAWN BY D.R.Z. CHECKED BY M.E.W.

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

	BY	DATE
APPROVED BY PRINCIPAL ENGINEER	MEW	6/19/92
~~PARK DEPARTMENT~~		
~~TRAFFIC DIVISION~~		
CHIEF PUB. WKS. ENGR.		

APPROVED BY Director of Public Works
DATE 6/19/92

SYCAMORE CANYON BUSINESS PARK
STORM DRAIN
EASTRIDGE AVENUE
STA. 18+51.23 TO STA. 30+00.00
SCALE: 1" = 40'

ACCOUNT No. 90-3000
DRAWING NUMBER D-615
SHEET 3 OF 3
90-3000-D

INDEXED 7-16-92 LH

RIVERSIDE BLUEPRINT - RIVERSIDE, CALIF.