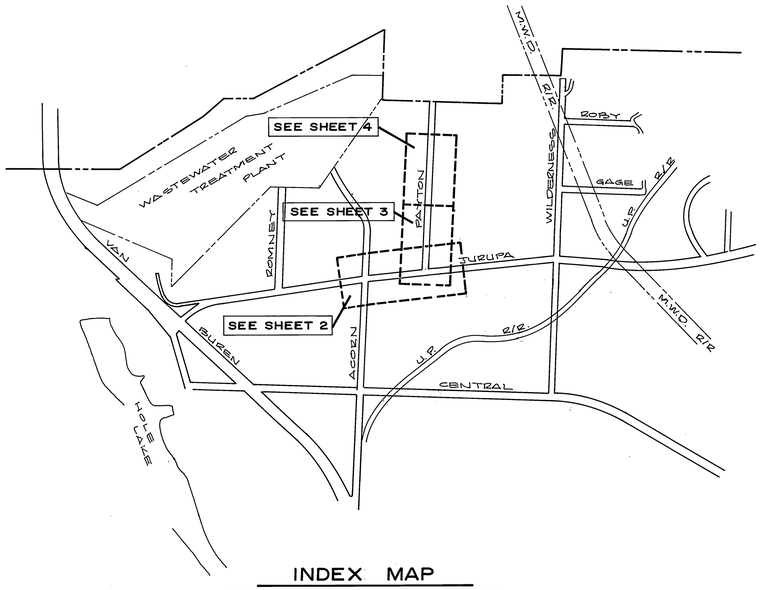
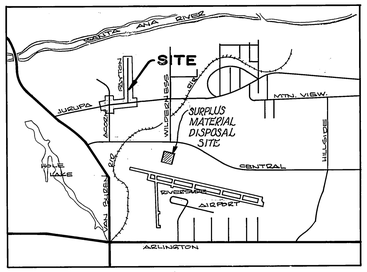


INDEX MAP

NOT TO SCALE



LOCATION MAP

NOT TO SCALE

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, 1985 EDITION.
3. ANY TRAFFIC CONTROL STRIPING OBLITERATED AND OR BADLY WORN DURING CONSTRUCTION SHALL BE RESTORED BY THE CONTRACTOR WITHIN FIVE (5) DAYS AFTER NOTIFICATION FROM THE CITY INSPECTORS.
4. THE CONTRACTOR SHALL CALL IN A LOCATION REQUEST TO UNDERGROUND SERVICE ALERT (USA), PHONE NO. 1-800-422-4133, TWO (2) 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.
5. THE STORM DRAIN CONTRACTOR SHALL ADJUST STORM DRAIN MANHOLES TO FINAL GRADE AFTER REPAVING IS COMPLETED.
6. EXISTING STREET PAVING TO BE REMOVED AND REPLACED AS REQUIRED PER CITY OF RIVERSIDE STANDARD DRAWING NO. 453, AND PER NOTED PAVEMENT SECTION ON PLANS.
7. UTILITIES TO BE CROSSED BY THE PROPOSED STORM DRAIN FACILITIES SHALL BE LOCATED IN THE FIELD PRIOR TO ISSUANCE OF GRADE SHEETS.
8. ALL ELEVATIONS SHOWN ON THE PLANS SHALL BE STAKED IN THE FIELD.
9. ALL GRADE SHEETS SHALL BE ISSUED THROUGH THE CITY INSPECTION SECTION AND A MINIMUM OF FOUR (4) WORKING DAYS SHOULD BE ALLOWED BETWEEN CONTRACTOR'S REQUEST FOR STAKING BEING SUBMITTED TO THE INSPECTION SECTION AND ISSUANCE OF GRADE SHEETS.
10. RIGHTS OF ENTRY HAVE BEEN OBTAINED FOR WORK SHOWN ON PRIVATE PROPERTY.
11. GROUNDWATER DISCLAIMER NOTE: GROUNDWATER LEVELS WERE DETERMINED PER INVESTIGATION COMPLETED APRIL 4, 1986. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INVESTIGATE PRESENT GROUNDWATER CONDITION PRIOR TO BIDDING AND CONSTRUCTING PROJECT.
12. ALL CONSTRUCTION SHALL BE DONE PER SOILS REPORT BY PIONEER CONSULTANTS DATED APRIL 24, 1986.
13. PRIOR TO REMOVAL, CONTRACTOR CAUTIONED TO REQUEST SURVEY OF EXISTING IMPROVMENTS REQUIRING REMOVAL AND REPLACMENT IN ORDER TO PROVIDE SUFFICIENT INFORMATION TO PROPERLY REPLACE SUCH IMPROVEMENTS.
14. SPECIAL NOTICE: PIPE MAY BE CONSTRUCTED OF TWO ALTERNATE MATERIALS.
    ALT. 1: REINFORCED CONCRETE PIPE (R.C.P.)
    ALT. 2: GALVANIZED STEEL SPIRAL RIB PIPE (WITH POLYMER COATED INVERT-90)
    ALL MATERIALS MAYBE INTERCHANGEABLE THROUGHOUT SYSTEM, EXCEPT LIKE MATERIAL PIPE SHALL BE USED FOR FULL LENGTH BETWEEN DRAINAGE STRUCTURES.
15. PRIOR TO REMOVAL, CONTRACTOR IS CAUTIONED TO REQUEST SURVEY OF EXISTING IMPROVEMENTS REQUIRING REMOVAL AND REPLACEMENT IN ORDER TO PROVIDE SUFFICIENT INFORMATION TO PROPERLY REPLACE SUCH IMPROVEMENTS.

NOTICE TO CONTRACTOR

THE EXISTENCE AND LOCATION 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.

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.

THE COVER OF A UTILITY IS SHOWN IN THE PROFILE. UTILITIES SHOWN AS 0' IN THE PROFILE INDICATES THAT COVER IS UNKNOWN; HOWEVER, THE UTILITY IS NOT EXPECTED TO CONFLICT WITH THE PROPOSED IMPROVEMENTS.

CALL UNDERGROUND SERVICE ALERT (USA) 1-800-422-4133 AT LEAST 48 HOURS PRIOR TO EXCAVATION.

BENCH MARK

BENCH MARK H-4-A
FOUND P.K. NAIL AND CITY ENGINEER TAG IN BASE OF STREET LIGHT, ON NORTH SIDE OF JURUPA AVENUE, 40 WESTERLY OF THE ROAR RAILROAD SPUR. PER CITY OF RIVERSIDE FIELD BOOK 739 PAGE 48.

ELEVATION 788.314

Underground Service Alert
DIG! BEFORE YOU DIG!
Call: TOLL FREE
1-800
422-4133
TWO WORKING DAYS BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER JOHN JORDAN No. 27983 Exp. 9-31-90 CIVIL STATE OF CALIFORNIA

INDEXED BY C.S.

PACIFIC TELEPHONE CO.	SO. CALIF GAS CO.	CITY OF RIVERSIDE	CITY OF RIVERSIDE	CITY OF RIVERSIDE
APPROVED BY:	APPROVED BY:	OVERHEAD & UNDERGROUND	WATER SYSTEM	REDEVELOPMENT AGENCY
DATE:	DATE:	CHIEF UTILITIES ENG'R. ELECTRICAL DATE:	APPROVED BY: DATE:	OPERATIONS OFFICER DATE:

ALBERT A. WEBB ASSOCIATES
CIVIL ENGINEERS
RIVERSIDE, CALIFORNIA
APPROVED BY _____ DATE 5-16-86
R.E. No. 27983
W.O. 84-222 FOR: CITY OF RIVERSIDE F.B.

MARK	REVISIONS	APPR.	DATE

DESIGNED BY EBBIE DRAWN BY R.H. CHECKED BY RCM

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

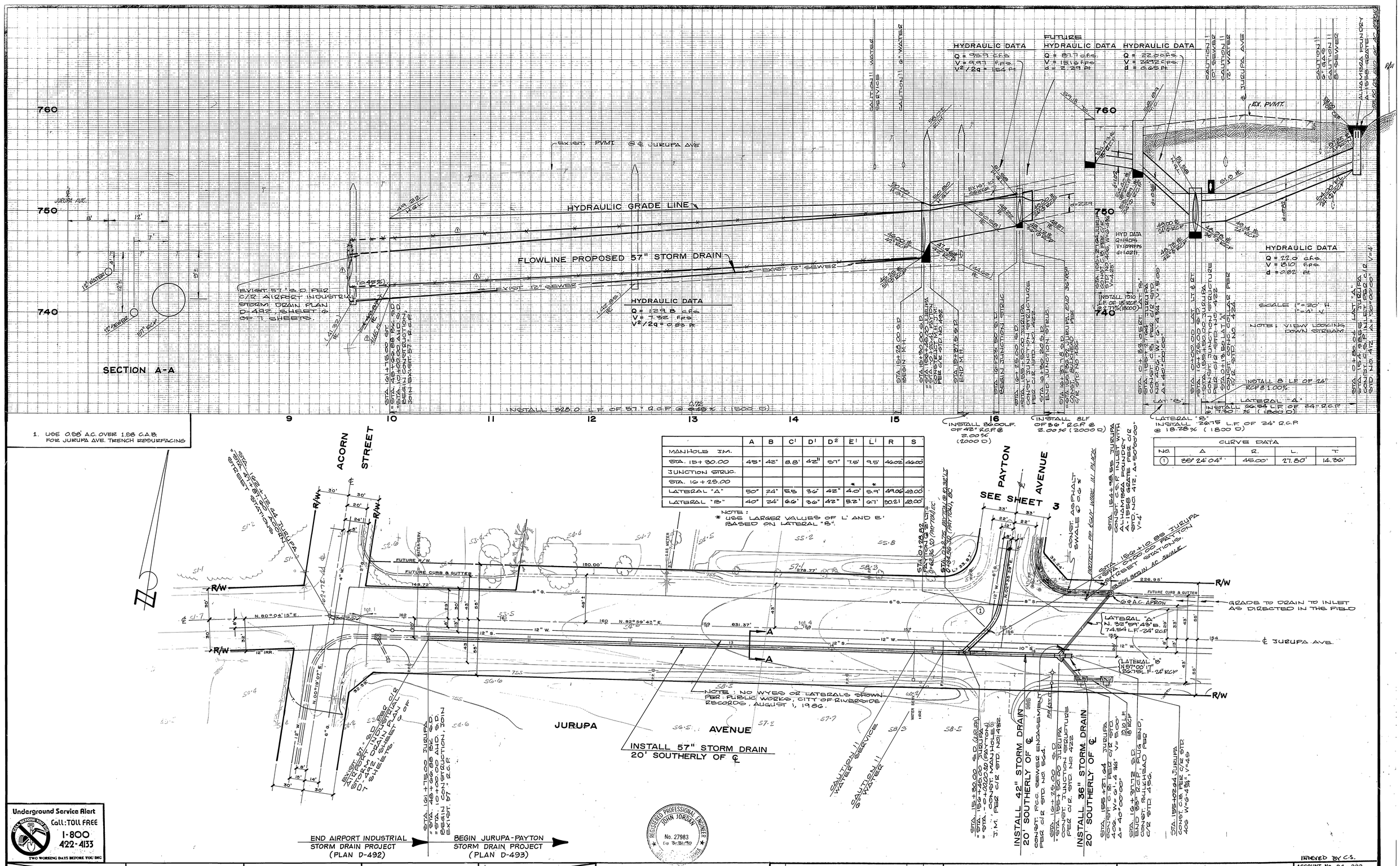
	BY	DATE
APPROVED BY		
PRINCIPAL ENGINEER	[illegible]	9/16/86
PARK DEPARTMENT	—	—
TRAFFIC DIVISION	D. Ray	9/16/86
CHIEF PUB. WKS. INSP.		
SURVEYOR		

APPROVED BY
DIRECTOR OF PUBLIC WORKS
DATE Sept. 16, 1986

JURUPA — PAYTON
STORM DRAIN
TITLE SHEET

SCALE: NOT TO SCALE

ACCOUNT No. 84-222
DRAWING NUMBER
D-493
SHEET 1 OF 4
84-222-D



1. USE 0.58' A.C. OVER 1.58 C.A.B. FOR JURUPA AVE. TRENCH RESURFACING

	A	B	C'	D'	D²	E'	L'	R	S
MANHOLE J.M.									
STA. 15+30.00	45°	42"	8.8'	42"	57"	7.5'	9.5'	46.02'	46.00'
JUNCTION STRUC.									
STA. 16+25.00						*	*		
LATERAL "A"	50°	24"	5.5	36"	42"	4.0'	5.9'	49.06'	49.00'
LATERAL "B"	40°	24"	6.6'	36"	42"	5.2'	6.7'	50.21'	49.00'

NOTE:
* USE LARGER VALUES OF L' AND E' BASED ON LATERAL "B".

CURVE DATA				
NO.	A	R.	L.	T.
1	35° 24' 04"	45.00'	27.80'	14.36'

Underground Service Alert
Call: TOLL FREE
1-800 422-4133
TWO WORKING DAYS BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER JOHN JORDAN No. 27983 Exp. 3-31-90

PACIFIC TELEPHONE CO.	SO. CALIF. GAS CO.	CITY OF RIVERSIDE OVERHEAD & UNDERGROUND	CITY OF RIVERSIDE WATER SYSTEM	CITY OF RIVERSIDE REDEVELOPMENT AGENCY
APPROVED BY:	APPROVED BY:	CHIEF UTILITIES ENG'R. ELECTRICAL	APPROVED BY:	OPERATIONS OFFICER
DATE:	DATE:	DATE:	DATE:	DATE:

ALBERT A. WEBB ASSOCIATES
CIVIL ENGINEERS
RIVERSIDE, CALIFORNIA
APPROVED BY: [signature] DATE 9-16-86
R.E. No. 27983
W.O. 84-222 FOR: CITY OF RIVERSIDE F.B.

MARK	REVISIONS	APPR.	DATE
1	60° SD SLOPE & DEPTH CHGD. TO CLEAR EX. 6" HPG	[initials]	10-15-86

DESIGNED BY EBBIE DRAWN BY R.H. CHECKED BY RCM

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER	[initials]	9/16/86
PARK DEPARTMENT		
TRAFFIC DIVISION	O. Ray	9/15/86
CHIEF PUB. WKS. INSP.		
SURVEYOR		

APPROVED BY William D. Gardner
DIRECTOR OF PUBLIC WORKS
DATE SEPT. 16, 1986

JURUPA – PAYTON STORM DRAIN
PLAN & PROFILE
JURUPA AVENUE

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

INDEXED BY C.S.
ACCOUNT No. 84-222
DRAWING NUMBER D-493
SHEET 2 OF 4
84-222-D

PROPOSED PIPELINE CONSTRUCTION

FUTURE PIPELINE CONSTRUCTION

PAYTON AVE.

HYDRAULIC GRADE LINE

FLOWLINE PROPOSED 42" STORM DRAIN

EXIST. GROUND @ ℄

HYDRAULIC DATA
Q = 45.3 c.f.s.
V = 4.11 F.P.S.
V²/2g = 0.34 ft.

HYDRAULIC DATA
Q = 22.6 c.f.s.
V = 7.19 F.P.S.
V²/2g = 0.80 ft.

HYDRAULIC DATA
Q = 22.6 c.f.s.
V = 7.19 F.P.S.
V²/2g = 0.80 ft.

MATCH LINE STA. 5+98
SEE SHEET 4 FOR A.C. SWALE CONSTRUCTION ONLY
END S.D. CONSTRUCTION

INSTALL 506.34 L.F. OF 42" R.C.P. @ 0.20 % (1800 D)

INSTALL 24.00 L.F. OF 42" R.C.P. @ 0.20 %

LATERAL "D"
INSTALL 26.67 L.F. OF 24" R.C.P. @ 4.89 % (1800 D)

LATERAL "C"
INSTALL 21.48 L.F. OF 24" R.C.P. @ 0.74 % (1800 D)

SECTION B-B

SCALE 1"=20' H.
1"=4' V.

NOTE: VIEW LOOKING DOWNSTREAM

CURVE DATA				
NO.	Δ	R.	L.	T.
①	36°24'04"	45.00'	27.80'	14.36

JURUPA AVENUE

SEE SHEET 2

INSTALL 42" STORM DRAIN 2' WEST OF ℄

ENCASE 6± L.F. OF EXIST. 12" S. PER C/R STD. DWG. 452V.

STA. - 0+25.41 PAYTON = STA. 15+30.00 S.D. JURUPA = STA. 156+45.00 JURUPA CONST. MANHOLE S.M. PER C/R STD. NO. 432.

CONST. ASPHALT SWALE @ 0.40 %

FUTURE C.B.G.

FUTURE CONST.

LATERAL "C" N. 41° 24' 21" W. 21.48 L.F. - 24" R.C.P.

LATERAL "D" N. 82° 35' 39" E. 26.67 L.F. - 24" R.C.P.

SEE SHEET 4 FOR A.C. SWALE CONST. & FUTURE S.D. CONST.

SWALE DETAIL N.T.S.

VARIABLE DEPTH
2½" A.C.
VARIES 1:1 MAX.

INSTALL 13 TYPE "L-1 MARKERS @ 40' C-C

PAYTON AVENUE

SEE SHEET 2

	A	B	C'	D'	D²	E'	L'	R	S
JUNCTION STRUCT.									
LATERAL "C"	50°	24°	5.5'	42"	42"	4.0'	5.9'	47.44'	47.40'
LATERAL "D"	50°	24°	5.5'	42"	42"	4.0'	5.9'	48.87'	48.60'

1. USE 0.30' A.C. OVER 0.90' C.A.B. FOR PAYTON AVENUE TRENCH RESURFACING.

Underground Service Alert
DIG ALERT TOLL FREE
Call: TOLL FREE
1-800
422-4133
TWO WORKING DAYS BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER
JOHN JORDAN
No. 27983
Exp. 3-31-90
CIVIL
STATE OF CALIFORNIA

PACIFIC TELEPHONE CO.	SO. CALIF. GAS CO.	CITY OF RIVERSIDE	CITY OF RIVERSIDE	CITY OF RIVERSIDE
APPROVED BY:	APPROVED BY:	OVERHEAD & UNDERGROUND	WATER SYSTEM	REDEVELOPMENT AGENCY
DATE:	DATE:	CHIEF UTILITIES ENG'R. ELECTRICAL — DATE:	APPROVED BY: — DATE:	OPERATIONS OFFICER — DATE:

ALBERT A. WEBB ASSOCIATES
CIVIL ENGINEERS
RIVERSIDE, CALIFORNIA
APPROVED BY [signature] DATE 9-16-86
R.E. No. 27983
W.O. 84-222 FOR: CITY OF RIVERSIDE F.B.

MARK	REVISIONS	APPR.	DATE

DESIGNED BY EBBIE DRAWN BY R.H. CHECKED BY JOHN

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

	APPROVED BY	BY	DATE
PRINCIPAL ENGINEER			
PARK DEPARTMENT			
TRAFFIC DIVISION			
CHIEF PUB. WKS. INSP.			
SURVEYOR			

APPROVED BY William D. Handley
DIRECTOR OF PUBLIC WORKS
DATE Sept. 16, 1986

JURUPA — PAYTON
STORM DRAIN
PLAN & PROFILE
PAYTON AVENUE

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

INDEXED BY C.S.

ACCOUNT No. 84-222
DRAWING NUMBER
D-493
SHEET 3 OF 4
84-222-D

PROPOSED PIPELINE CONSTRUCTION

~~FUTURE PIPELINE CONSTRUCTION~~

PROPOSED PIPELINE CONSTRUCTION

FUTURE CONST.

EXIST. GRADE @ ℄

PROP. FINISH GRADE @ ℄

HYDRAULIC GRADE LINE

42" RCP S.D. L=136'

FLOWLINE FUTURE 42" STORM DRAIN

OPEN PIPE @ SWALE FL 52.70 END OF SWALE

2" ROAD ↘ GUTTER

CAUTION!! 24" GAS LINE

54.96 RIM

54.46 FL

FL 51.20 18" RCP

41.66 FL 42" RCP

48.90 FL 18" RCP

48.00 FL 18" RCP

MATCH LINE STA. 5+98

SEE SHEET 3 END PROPOSED S.D. CONSTRUCTION

HYDRAULIC DATA
Q = 22.65 c.f.s.
V = 2.35 f.p.s.
V²/2g = 0.09 ft.

INSTALL 420.50 L.F. OF 42" R.C.P. @ 0.20% (1500 D)

STA. 10+18.50 REINF. MANHOLE

STA. 10+20.00 CONST. MANHOLE PER C/R STD. No. 432

STA. 10+39.00 END OF MANHOLE

760 / 750 / 740

5 6 7 8 9 10 11 12

CAUTION!! 6" GAS (POTHOLE AND RELOCATE IF NECESSARY)

℄ STREET

HYDRAULIC DATA
Q = 11.30 c.f.s.
V = 6.39 f.p.s.
V²/2g = 0.63 ft.

STA. 0+12.17 LAT. "F" CONST. C.B. PER C/R STD. No. 302 TYPE "B" W/ 2-2'x1' GRATES

STA. 0+20.00 LAT. "F" ℄ INTERSECTION W/ LAT. "E"

STA. 0+20.00 LAT. "E" ℄ INTERSECTION W/ LAT. "F"

STA. 0+21.75 LAT. "E" CONST. C.B. PER C/R STD. No. 302 TYPE "B" W/ 2-2'x1' GRATES

STA. 0+29.75 LAT. "E" CONST. MANHOLE PER C/R STD. No. 432

STA. 0+31.50 LAT. "E" END CONST.

HYDRAULIC DATA
Q = 11.30 c.f.s.
V = 6.39 f.p.s.
V²/2g = 0.63 ft.

760 / 750 / 740

50 0 50

LATERAL "F" INSTALL 26.97 L.F. OF 18" R.C.P. @ 1.09 % (1800 D)

LATERAL "E" INSTALL 21.75 L.F. OF 18" R.C.P. @ 1.30 % (1800 D)

	A	B	C'	D'	D²	E'	L'	R	S
MANHOLE STRUC.									
LATERAL "E"	50°	18	3:2	42"	42"	3:5	5:0	48.67	48.60
LATERAL "F"	50°	18	3:2	42"	42"	3:5	5:0	48.66	48.60

NOTE : THIS SHEET IS FOR A.C. SWALE CONST. & REF. TO FUTURE S.D. CONST.

⚠1 WORK THIS DRAWING WITH, STREET PLAN AND PROFILE, PAYTON AVE. C/R DWG. R-2562 SHT 2 OF 2

⚠1 STA 7+17.35 PAYTON CONST. C.B. PER C/R STD. DWG. No. 405 W=4.0, D=4.0', V=6.8'

FUTURE 42" STORM DRAIN (N.I.C.) 2' WEST OF ℄

FL 51.20, 18" RCP

18" RCP CONNECT TO C.B. FROM END OF SWALE, L=30', (OPEN PIPE @ SWALE)

TC 54.95
FL 54.45

FL 52.70 SWALE (END)

CONST. ASPHALT SWALE @ 0.40%

EXIST INLET AND 24" STORM DRAIN TO BE ABANDON AND SEALED AT SITE

TC 54.98
FL 54.48

LATERAL "E" 18" RCP @ ±50.00' OF CAUTION!, 6" GAS LINE

30'

BEGIN A.C. SWALE

LATERAL "E" N 41° 31' W. 21.75' L.F. 18" ℄ R.C.P.

STA 10+47.92 PAYTON CONST. C.B. PER C/R STD. No. 302 TYPE "B" W/ 2-2'x1' GRATES V=5.25', ℄ = 50.00'

CAUTION!! 6" GAS (POTHOLE AND RELOCATE IF NECESSARY)

END A.C. SWALE

GRADED ASPHALT SWALE

℄ PAYTON

42" S.D.

12" W.

6"♂

374.67'

545.66'

550'

PAYTON AVENUE

FUTURE PIPELINE CONSTRUCTION

FUTURE C.& G.

STA 6+97.10 JUNCTION STRUCTURE C PER C/R STD. No. 404 & 422 A=50°00'00" R=48.23' D1=42" D2=42" L1'=8.91' R=48.23, S=48.00

STA 5+98.00 END 42" R.C.P., PLUG & BULKHEAD TO BE REMOVED BEGIN CONST.

STA 7+34.00 END 42" RCP PLUG & CONST. BULKHEAD PER C/R STD DWG. No. 456

STA 10+30.00 PAYTON CONST. C.B. PER C/R STD. No. 432

LATERAL "F" N 41° 31' W. 26.97' L.F. 18" R.C.P.

STA 10+50.00 PAYTON CONST. C.B. PER C/R STD. No. 302 2@ 4.01', W=6', V=5.25' ℄ = 50.00'

REGISTERED PROFESSIONAL ENGINEER JOHN JORDAN No. 27983 Exp. 12-31-05 CIVIL STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER CHARLES A. RAMSEY No. 25595 Exp. 12-31-05 CIVIL STATE OF CALIFORNIA 6/16/05

PW05-0177 ⚠1

BIBB AND ASSOCIATES, INC.
35 N. LAKE AVE, SUITE 800
PASADENA, CALIFORNIA 91101
626-396-3500

INDEXED BY C.S.

Underground Service Alert
Call: TOLL FREE 1-800 422-4133
TWO WORKING DAYS BEFORE YOU DIG

PACIFIC TELEPHONE CO. APPROVED BY:	SO. CALIF. GAS CO. APPROVED BY:	CITY OF RIVERSIDE OVERHEAD & UNDERGROUND	CITY OF RIVERSIDE WATER SYSTEM	CITY OF RIVERSIDE REDEVELOPMENT AGENCY
DATE:	DATE:	CHIEF UTILITIES ENG'R. ELECTRICAL DATE:	APPROVED BY: DATE:	OPERATIONS OFFICER DATE:

ALBERT A. WEBB ASSOCIATES
CIVIL ENGINEERS
RIVERSIDE, CALIFORNIA
APPROVED BY _____ DATE 9-16-86
R.E. No. 27983
W.O. 84-222 FOR: CITY OF RIVERSIDE F.B.

MARK	REVISIONS	APPR.	DATE
⚠1	EXTENDED 42" S.D.	BJR	7-13-05

DESIGNED BY EBBIE DRAWN BY R.H. CHECKED BY JRM

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
PARK DEPARTMENT		
TRAFFIC DIVISION		
CHIEF PUB. WKS. INSP.		
SURVEYOR		

APPROVED BY William D. Hardesty
DIRECTOR OF PUBLIC WORKS
DATE Sept. 16, 1986

JURUPA — PAYTON STORM DRAIN
PLAN & PROFILE FUTURE PAYTON AVENUE

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

ACCOUNT No. 84-222
DRAWING NUMBER D-493
SHEET 4 OF 4
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