710.83 LF. 12" CML & AW CLASS 200

FULL WELD DOUBLE PASS ALL JOINTS 166 LF

166.49 LF 12" CML & AW CLASS 200 FULL WELD DOUBLE PASS ALL JOINTS.

MATCHLINE

TRACT BOUNDARY

PROP. FINISH SURFACE @ STREET ℄

PROP. 12" WATERLINE FL.

20+50.00 SUPER. F.H. (PER WA-034-B) E=1585.10

22+85.00 12"x12"x12" CROSS 12"G.V.(N&E) E=1590.00

23+92.00 SUPER. F.H. (PER WA-084-B) E=1591.46

26+98.80 EC N01°57'34"E(R) 12"x12"x12" TEE 12"G.V.(N) FL.=1596.11

26+98.80 EC N01°57'34"E(R) 12" BLIND FLANGE & 2" B.O. PER WA-014-38(ALT.) FL.=1596.29

26+98.89 TR. BDRY.

20+00.00

S=-0.0172

1586.66 FL

S=+0.0184

1600

1590

1580

PROFILE SCALES
HORIZ. 1"=40'
VERT. 1"=4'

91+67.00 @ EXIST. 16" WATER MAIN

10+46.00 REMOVE EXIST. 12" BF & 2" BO AND CONNECT TO EXIST. 12" PIPE BY M.W.W.D. @ DEV. EXPENSE

11+25.00 12"x12"x12" TEE 12"G.V.(S) FL=1591.30

12+11.49 12" BLIND FLANGE & 2" B.O. PER WA-014-38(ALT.) E=1585.00

S=-0.0050

S=-0.0196

(REMOVE 16" ℄)

SEWER X-ING

12+18.09

20 21 22 23 24 25 26 27 10 11 12

18.0% 30"ø PIPE

120° C.D. PIPE FEED.

EAR HART WAY

SEE SHEET 4

14

28+85.00 = 9+00.00 12"x12"x12"x12" CROSS 12"G.V.(N,S&E)

20+50.00 N69°20'54"W(R) SUPER F.H. PER WA-084-B

L=239.68

SEE SHEET 2

MATCHLINE

20+00.00

PROP. 90° R.C.P. PER D-

23+00.00 ℄ INT. LINDBERGH DRIVE =14+15.00 ℄ INT. EARHART WAY

SCALE 1"=100'

15

29+52.00 N60°29'18"W(R) SUPER F.H. PER WA-084-B

S 28°21'39" E

11

INSTALL 12" DIA. WATERLINE (CML & AW)

L=211.45

40 L.F. 12" CML & AW CLASS 200 @ S=+0.010

12" BLIND FLANGE & 2" B.O. PER WA-014-38(ALT.) FL.=1590.68

26+00 12"x12"x12" TEE 12"G.V.(NO)

L=198.95

10

18 L.F. 12" CML & AW CLASS 200, S=+0.010

16+96.89 EC N01°57'34"E(R) 12" BLIND FLANGE & 2" B.O. PER WA-014-38(ALT.)

9+67 = 26+86.01 EXIST. 8" FLG'D TEE & 12" GV. (N,E&S)

N 62°02'13"W

12"W

MISSION GROVE PKWY. SO.

CFD 86-1 IMPROVEMENT PLANS
WATER IMPROVEMENT PLANS

85+75.00 EXIST. SUPER F.H.

NORTHROP DRIVE

10+30.00 ℄ INT. =25+01.52 MISSION GROVE PARKWAY SOUTH N 62°02'13"W(R)

11+25 12"x12"x12" TEE 12"G.V.(S)

18 L.F. 12" C.M.L. & AW CLASS 200 @ S=+0.010

12" BLIND FLANGE & 2" B.O. PER WA-014-38(ALT.)

10+46.00 REMOVE EXIST. BLIND FLANGE & B.O. AND CONNECT TO EXIST. 12" PIPE BY M.W.W.D. @ DEV. EXPENSE.

INSTALL 12" DIA. WATERLINE (CML & AW)

CURVE DATA				
NO.	△	R	L	T
①	53°23'28"	750.00'	698.89'	377.13'
②	01°51'50"	765.00'	24.89'	12.44'
③	19°54'30"	765.00'	265.81'	134.26'
④	05°07'06"	765.00'	68.34'	34.19'
⑤	26°20'52"	765.00'	351.79'	179.06'

TR-23178

LINDBERGH DRIVE

NORTHROP DRIVE

SUB. 8-2056 & 8-1944
FINAL ENGINEERING PLANS

CFD 86-1, IMPROVEMENT AREA NO.1
PURCHASE ORDER 42452, CHANGE ORDER NO.8

CITY OF RIVERSIDE
FIRE DEPT.

APPROVED BY _____ DATE _____
(FOR F.H. LOCATIONS ONLY)

APPROVED BY WESTERN MUNICIPAL WATER DISTRICT FOR CONSTRUCTION

CHIEF ENGINEER RCE 17984 DATE 10-2-89

VOID AFTER 1 YEAR FROM THIS DATE

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

PRIVATE ENGINEERING NOTE

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER THOMAS E. HOWARD No. 19165 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF:

REGISTERED CIVIL ENGINEER NO. 19165

EXPIRATION DATE 9-30-89 DATE:

APPROVED BY:

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

DATE JUNE 1988

J.F. DAVIDSON ASSOCIATES, INC.
CIVIL ENGINEERS • SURVEYORS • PLANNERS

P.O. BOX 493 RIVERSIDE, CA 92502 (714) 686-0844
11200 SO. MT. VERNON AVE. #D COLTON, CA 92324 (714) 825-1082
73-080 EL PASEO, #103 PALM DESERT, CA 92260 (619) 346-9691

JFD ASSOCIATES

BENCH MARK: CITY OF RIVERSIDE BM #79-B P.K. NAIL AND CITY TAG IN CONCRETE RETAINING WALL SELY OF INTERSECTION OF ALESSANDRO BLVD. AND TRAUTWEIN RD. EL. = 1607.635

MARK	REVISIONS	APPR.	DATE
1	ADDED WATER SERVICES	TAS	9/14/89

DESIGNED BY VN. DRAWN BY RMD CHECKED BY LH

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

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

APPROVED BY

DIRECTOR OF PUBLIC WORKS

DATE

WATER IMPROVEMENT PLANS
PM 23178 A-1
(10+00.00 TO 16+96.89)
LINDBERGH DRIVE
NORTHROP DRIVE

FOR REGIONAL PROPERTIES

PROJECT NO.

SHEET 3 OF 4

FILE NO. 881057I

XREF 7-24-90 LH