

CONTRACTOR'S NOTE:
CONTRACTOR TO MAINTAIN MINIMUM 3'
COVER OVER TOP OF WATER MAIN.

CONTRACTOR'S NOTE:
EXISTING UTILITY CROSSINGS ARE NOT
REPRESENTATIVE OF ACTUAL LENGTH
OF CONFLICT AREA (SEE PLAN VIEW).

CONTRACTOR'S NOTE:
1" AIR VALVE TO BE INSTALLED AT THE
HIGHEST POINT OF THE WATER MAIN.
CONTRACTOR TO DETERMINE AND
RESIDENT ENGINEER TO VERIFY THE
EXACT LOCATION OF THE AIR VALVE
BEFORE INSTALLATION.

CONTRACTOR'S NOTE:
CONTRACTOR SHALL MAINTAIN A MINIMUM
1 FOOT VERTICAL SEPARATION (FROM
OUTSIDE PIPE WALL TO OUTSIDE PIPE WALL)
BETWEEN WATER AND OTHER UTILITIES.

SCALE
1"=40' HORIZ.
1"=8' VERT.

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

CAUTION!!!
LOW OVERHEAD POWER LINES
IN ENTIRE PROJECT AREA.

ENVIRONMENTAL NOTE
ARCHAEOLOGICAL MONITORING REQUIRED
DURING EXCAVATION SEE APPENDIX "A"
OF CONTRACT DOCUMENTS.

NOTE: UPAS ST. SHALL BE HIGHLIGHTED BY
CITY FORCES PRIOR TO THE BEGINNING OF
CONSTRUCTION. CITY FORCES TO PROVIDE
THE CONSTRUCTION MATERIALS. CITY WILL
TRANSFER SERVICES.

CONTRACTOR'S NOTE:
CONTRACTOR SHALL MAINTAIN
A MINIMUM 4 FEET HORIZONTAL
SEPARATION (FROM OUTSIDE
PIPE WALL TO OUTSIDE PIPE WALL)
BETWEEN SEWER AND WATER.

NOTE: UNION ST. SHALL BE HIGHLIGHTED BY
CITY FORCES PRIOR TO THE BEGINNING OF
CONSTRUCTION. CITY FORCES TO PROVIDE
THE CONSTRUCTION MATERIALS.

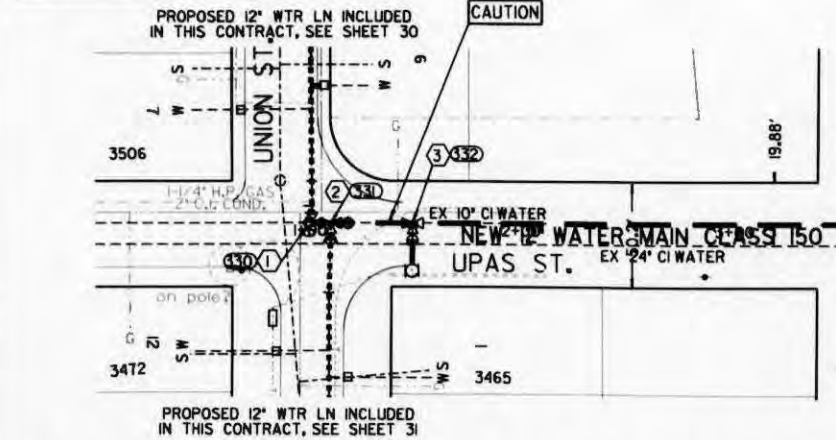
PROPOSED 12" WTR LN INCLUDED
IN THIS CONTRACT, SEE SHEET 31

COORDINATE TABLE			
NO.	NORTHING	EASTING	DESCRIPTION
330	185040.15	6277133.29	8" 90° ELBOW
331	1850415.41	6277140.53	12" TEE
332	1850438.14	6277171.83	6" FH ASSEMBLY
333	1850572.65	6277356.96	1" AIR VALVE
334	1850577.74	6277364.05	12" TEE

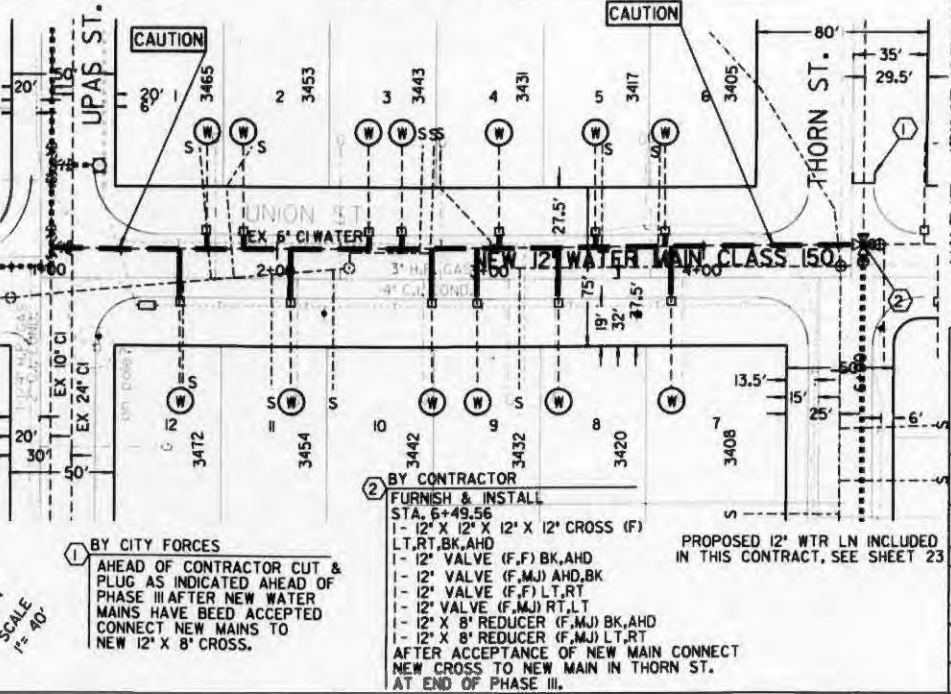
HIGHLINING PHASE III

REFERENCE:
BENCH MARK: SWBP REDWOOD ST AND COLUMBIA ST.
EL-147.24 MSL NGVD29 (FEET)
FIELD NOTES: HACKNEY/McCORMICK, 206-1713, II-12-97/
9-1-2000, W0183791(W), W0174061(S) 6 THRU 77.
WATER: 8923-D, 2564-I-L, 5518-W, 5929-L
SEWER: 2564-L, 2566-L, 2567-L, 3793-L
STORM DRAIN:
GAS:
ELECTRIC:
CABLE TV:
TELEPHONE:
IMPROVEMENTS: 2564-L
WATER FIELD BOOK: F195
SEWER FIELD BOOK: F195
100' SCALE: F205 A
THOMAS BROS.: 1268

RETIREMENTS:	LENGTH	SIZE	TYPE	YEAR INSTALLED
	284.93'	10"	CI PIPE	1963
	380'	6"	CI PIPE	1963



- BY CONTRACTOR
FURNISH
1- 12" x 12" x 12" TEE (F) BK,LT,RT
1- 12" VALVE (F,H) AHD,BK
1- 12" VALVE (F,F) LT,RT
1- 12" VALVE (F,F) RT,LT
1- 12" x 10" REDUCER (F,H) RT,LT
1- 12" x 10" REDUCER (F,H) LT,RT
- BY CITY FORCES
INSTALL
STA. 3+85.19
1- 12" x 12" x 12" TEE (F) BK,LT,RT
1- 12" VALVE (F,H) AHD,BK
1- 12" VALVE (F,F) LT,RT
1- 12" VALVE (F,F) RT,LT
1- 12" x 10" REDUCER (F,H) RT,LT
1- 12" x 10" REDUCER (F,H) LT,RT
- BY CITY FORCES
PLUG AS INDICATED
AFTER NEW MAIN
HAS BEEN ACE.
CONNECT NEW 12"
MAIN TO 12" TEE.



- BY CITY FORCES
AHEAD OF CONTRACTOR CUT &
PLUG AS INDICATED AHEAD OF
PHASE III AFTER NEW WATER
MAINS HAVE BEEN ACCEPTED
CONNECT NEW MAINS TO
NEW 12" x 8" CROSS.
- BY CONTRACTOR
FURNISH & INSTALL
STA. 6+49.56
1- 12" x 12" x 12" x 12" CROSS (F)
LT,RT,BK,AHD
1- 12" VALVE (F,F) BK,AHD
1- 12" VALVE (F,MJ) AHD,BK
1- 12" VALVE (F,F) LT,RT
1- 12" VALVE (F,MJ) RT,LT
1- 12" x 8" REDUCER (F,MJ) BK,AHD
1- 12" x 8" REDUCER (F,MJ) LT,RT
AFTER ACCEPTANCE OF NEW MAIN CONNECT
NEW CROSS TO NEW MAIN IN THORN ST.
AT END OF PHASE III.

- 1 BY CITY FORCES
AHEAD OF CONTRACTOR CUT &
PLUG AS INDICATED.
- 2 BY CONTRACTOR
FURNISH & INSTALL
STA. 1+8.95
1- 12" TEE (F,F) BK,AHD,RT
1- 12" VALVE (F,MJ) LT,RT
1- 12" VALVE (F,F) BK,AHD
1- 12" VALVE (F,F) AHD,BK
1- 12" x 8" REDUCER (F,F) AHD,BK
ALIGN REDUCER WITH 8" 90° ELBOW
- 3 BY CONTRACTOR
FURNISH & INSTALL
STA. 1+47.63
1- 12" x 12" x 6" TEE (F,F) BK,AHD,RT
1- 6" FH ASSEMBLY LT (W - 10)
- 4 BY CONTRACTOR
FURNISH & INSTALL
STA. 3+67.52
1- 1" AIR & VACUUM VALVE

HIGHLINING PHASE III

SEWER and WATER GROUP 673
UPAS STREET
UNION STREET

UNION ST AND HORTON AV, UPAS ST AND THORN ST.

CITY OF SAN DIEGO, CALIFORNIA
ENGINEERING AND CAPITAL PROJECTS DEPARTMENT

DATE: 03-05-01
PROJECT ENGINEER: [Signature]
PROJECT ENGINEER: [Signature]

CONTRACT IDENTIFICATION
206-1713
LABORER COORDINATES
28898-31-D

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OBTAINABLE. EXCESSIVE GRAY BACKGROUND
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