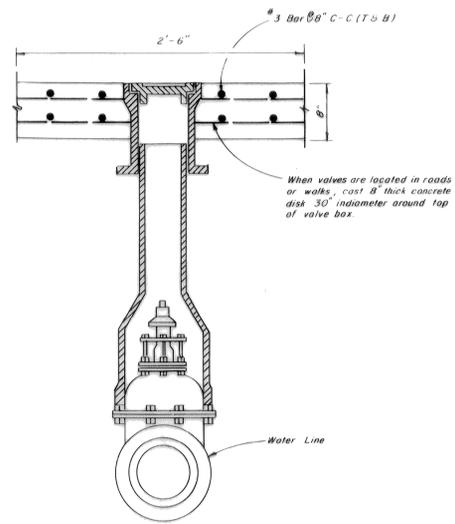
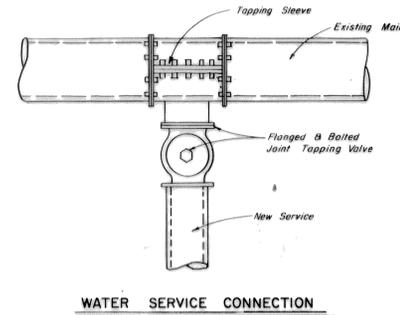


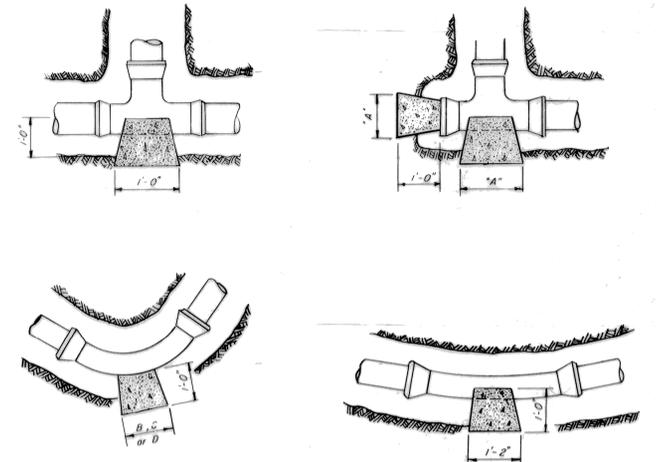
TYPICAL GATE VALVE & HYDRANT INSTALLATION



VALVE BOX DETAIL



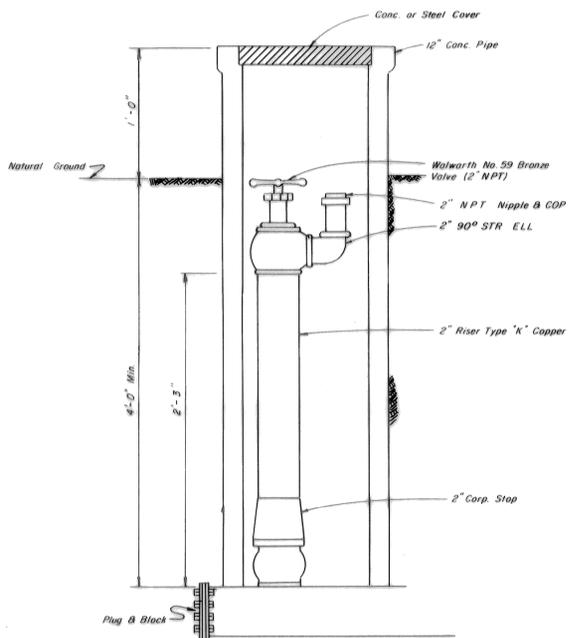
WATER SERVICE CONNECTION



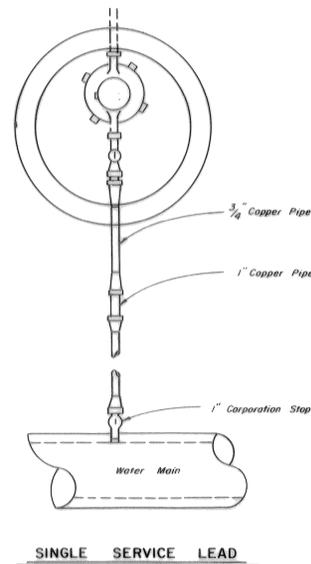
PIPE SIZE	"A" PLUGS & TEES	"B" 90° BEND	"C" 45° BEND	"D" 22 1/2° BEND
4" 6"	1'-0"	1'-3"	1'-0"	1'-0"
8"	2'-0"	2'-6"	1'-6"	1'-0"
12"	4'-0"	4'-0"	2'-6"	1'-6"

NOTE: Safe Bearing Load

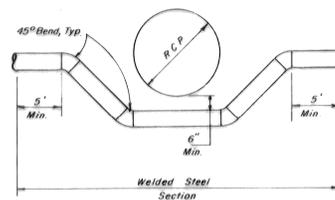
NOTE: Thrust Block at trench face must have a minimum bearing surface of 1 sq. ft., and the least dimension shall be no smaller than 1.5x pipe diameter, but not less than 1.0 ft.



2" BLOW-OFF VALVE ASSEMBLY



SINGLE SERVICE LEAD



WELDED STEEL SECTION

THRUST BLOCK DETAIL

PRIVATE UTILITY LINES SHOWN

*ENTEX, INC.*  
10-16-87 51-785 (Harris)

*SOUTHWESTERN BELL TELEPHONE CO.*  
10-27-87  
Valid for One Year Only

*HOUSTON LIGHTING & POWER CO.*  
Approval Only for Crossing Underground Ductlines Unless Noted. Valid for One Year Only

APPROVED FOR CITY OF HOUSTON  
DEPARTMENT OF PUBLIC WORKS:

Water Design: *[Signature]*  
Water Quality: *[Signature]*  
Assistant Director - Water Div.: *[Signature]*  
Bridge Division: *[Signature]*  
Assistant Director: *[Signature]*  
Date: *[Signature]*

OTHER DEPT'S: *[Signature]*  
Traffic & Transp. Dept. City Planning Dept.

David A. Carlin  
1-30-89  
M. W. Broun  
11/19/87

Rev.	Date	Description	App.
RELOCATION OF 12" WATER LINE ON F.M. 1960			
HARRIS COUNTY M.U.D. No. 191			
WATER DETAILS			
Design By:	C. O. H.	Job No: 85001	Sheet 5
Drawn By:	R. T.	Scale: NONE	of 5
Checked By:	D. C. L.	Date: OCTOBER, 1987	

**LANDEV ENGINEERS, INC.**  
1708 SEAMIST DRIVE  
Houston, Texas 77008