



NOMINAL PIPE DIAMETER	MINIMUM TRENCH DEPTH A	MINIMUM TRENCH WIDTH B
1", 2"	24"	12"
4", 6", 8"	36"	18"
12"	44"	24"
16"	54"	30"
20"	54"	38"
24"	55"	44"
36"	72"	60"
48"	84"	72"

NOTES:

- 1) MINIMUM TRENCH DEPTHS AND TRENCH WIDTHS MUST BE ADHERED TO UNLESS APPROVED OTHERWISE BY THE CITY DISTRIBUTION DIVISION.
- 2) TRENCH CONSTRUCTION SHALL CONFORM TO OSHA AND CAL OSHA.

3) OVEREXCAVATING FOR BEDDING IS NOT REQUIRED UNLESS:

- A) BOTTOM OF TRENCH EXCAVATION IS IN BEDROCK, WHERE BEDDING SHALL BE 6" THICK.
- B) FOR 20" AND 24" DIA. PIPE, WHERE BEDDING SHALL BE 4" THICK.
- C) FOR 36" AND 48" DIA. PIPE, WHERE BEDDING SHALL BE 6" THICK.
- D) REQUIRED BY THE CITY REPRESENTATIVE.

BEDDING SHALL BE THE SAME AS BACKFILL MATERIAL PER SPECIFICATIONS AND SHALL BE COMPACTED TO 95% RELATIVE COMPACTION.

- 4) WARNING TAPE SHALL BE 6" WIDE, BLUE COLORED FOR LPW AND PURPLE FOR RW, NON-DETECTABLE TYPE. INSCRIPTION MESSAGE, USING 1.5" MINIMUM HEIGHT BLACK TEXT, SPACED AT 3-FT MAXIMUM INTERVALS, SHALL READ "CAUTION: WATER LINE BELOW" FOR LPW AND "CAUTION: RECYCLED WATER LINE BELOW" FOR RW. WARNING TAPE SHALL OVERLAP 12" MINIMUM AT SPLICES.

- 5) AREAS UNDER THE ADDITIONAL 1' PAVEMENT TO BE REMOVED FOR THE T-TRENCH RESTORATION SHALL BE SCARIFIED, RESHAPED, AND COMPACTED TO THE REQUIRED DENSITY PRIOR TO FURTHER CONSTRUCTION.

STANDARD TRENCH DETAIL

NTS

FOR THE SOLE USE OF THE DOCUMENT RECIPIENT  
- DO NOT CITE, COPY, OR CIRCULATE WITHOUT  
THE EXPRESSED PERMISSION OF THE SFPUC.

REFERENCES  
GATE BOOK PAGES, PLANS,  
SURVEY NOTES, ETC., USED

CCSF 2013  
NAVD88



10-26-2018

NO.	DATE	DESCRIPTION	BY	APPR'D

WATER CONTRACT NO. WD-2775  
CONTRACT NO. 2652J

CITY AND COUNTY OF SAN FRANCISCO  
**PUBLIC UTILITIES COMMISSION**  
INFRASTRUCTURE DIVISION  
ENGINEERING MANAGEMENT BUREAU

INSTALLATION OF 16-INCH AND 36-INCH, AND RELOCATION OF  
8-INCH DUCTILE IRON WATER MAINS AT VARIOUS LOCATIONS  
ON 19TH AVENUE FROM HOLLOWAY AVENUE TO LINCOLN WAY

WATER TRENCH DETAIL FOR  
CALTRANS RIGHT OF WAY

CHECKED / APPROVED SECTION MANAGER DESIGNED APPROVED MANAGER, ENGINEERING MANAGEMENT BUREAU	8. Yu / RT Tlee Jh. Huan Wong Kam. Z. Nide	DRAWN DESIGNED APPROVED MANAGER, CITY DISTRIBUTION DIVISION	RS RT OCT 2018	AS SHOWN
SHEET NO. OF .	PLAN NO. WD-2775-13	DRAWING NO. E-31382	REVISION NO. 0	

PLOT: EXTEND  
SCALE: 1:1  
BORDER:  
22,34  
COLOR: No.  
RED 0.70MM  
YELLOW 0.20MM  
GREEN 0.25MM  
CYAN 0.40MM  
BLUE 0.50MM  
MAGENTA 0.20MM  
WHITE 0.35MM  
GRAY 0.15MM  
9 1.00MM  
10 0.70MM  
210 0.60MM