

| NOMINAL PIPE<br>DIAMETER | MINIMUM<br>TRENCH DEPTH<br>A | MINIMUM<br>TRENCH WIDTH<br>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"                          |  |

- 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"
- C. FOR 36" AND 48" DIA. PIPE, WHERE BEDDING SHALL BE 6"
- 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.
- ONLY FOR 36" DIA PIPE, BACKFILL SHALL BE CONTROLLED LOW STRENGTH MATERIAL (CLSM) FROM BOTTOM OF TRENCH TO SPRINGLINE OF PIPE. CLSM SHALL HAVE A MAX 100 PSI COMPRESSIVE STRENGTH AT 28-DAYS.

STANDARD TRENCH DETAIL

FOR THE SOLE USE OF THE DOCUMENT RECIPIENT - DO NOT CITE, COPY, OR CIRCULATE WITHOUT THE EXPRESSED PERMISSION OF THE SFPUC.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 04/22/2021) NAVD88

↑ 03/10/21 PCO #3 - REVISE NOTE 6

NO. DATE DESCRIPTION

DESCRIPTION

REVISIONS

IC JA

BY APPR'D

PUBLIC UTILITIES COMMISSION

CONTRACT NO. 2652J

INFRASTRUCTURE DIVISION

WATER CONTRACT NO. WD-2775

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

CITY AND COUNTY OF SAN FRANCISCO

CALTRANS RIGHT OF WAY

| CHECKED / APPROVED                     | BY / EC  | DRAWN                               | AS SHOWN     |
|--|----------|-------------------------------------|--------------|
| SECTION MANAGER                        | T. LEE   | DESIGNED                            | OCT 2018     |
| APPROVED                               |          | APPROVED                            |              |
| last L for                             |          | William P. Teahan                   |              |
| MANAGER, ÉNGINEERING MANAGEMENT BUREAU |          | MANAGER, CITY DISTRIBUTION DIVISION |              |
| SHEET                                  | PLAN NO. | DRAWING NO.                         | REVISION NO. |
| . OF .                                 | WD-2775- | -13 E $-31382$                      |              |

NTS

PLAN APPROVAL DATE CONTRACT No. PROJECT ID COUNTY POST MILES TOTAL PROJECT DISTRICT ROUTE 04-0G3501 0400000325 SF R0.94/4.05

0.70MM 0.60MM FILE: Q:\CUW2600111\WD-2775\CONFORMED\WD-2775.DWG 4/12/2021 9:21 AM

PLOT: EXTEND

22,34

COLOR: No.
RED 0.70MM
YELLOW 0.20MM
GREEN 0.25MM
CYAN 0.40MM
BLUE 0.50MM
MAGENTAO.20MM
WHITE 0.35MM
GRAY 0.15MM
9 0.15MM
10 1.00MM

10 100 210

SCALE: 1:1

BORDER:

111,503