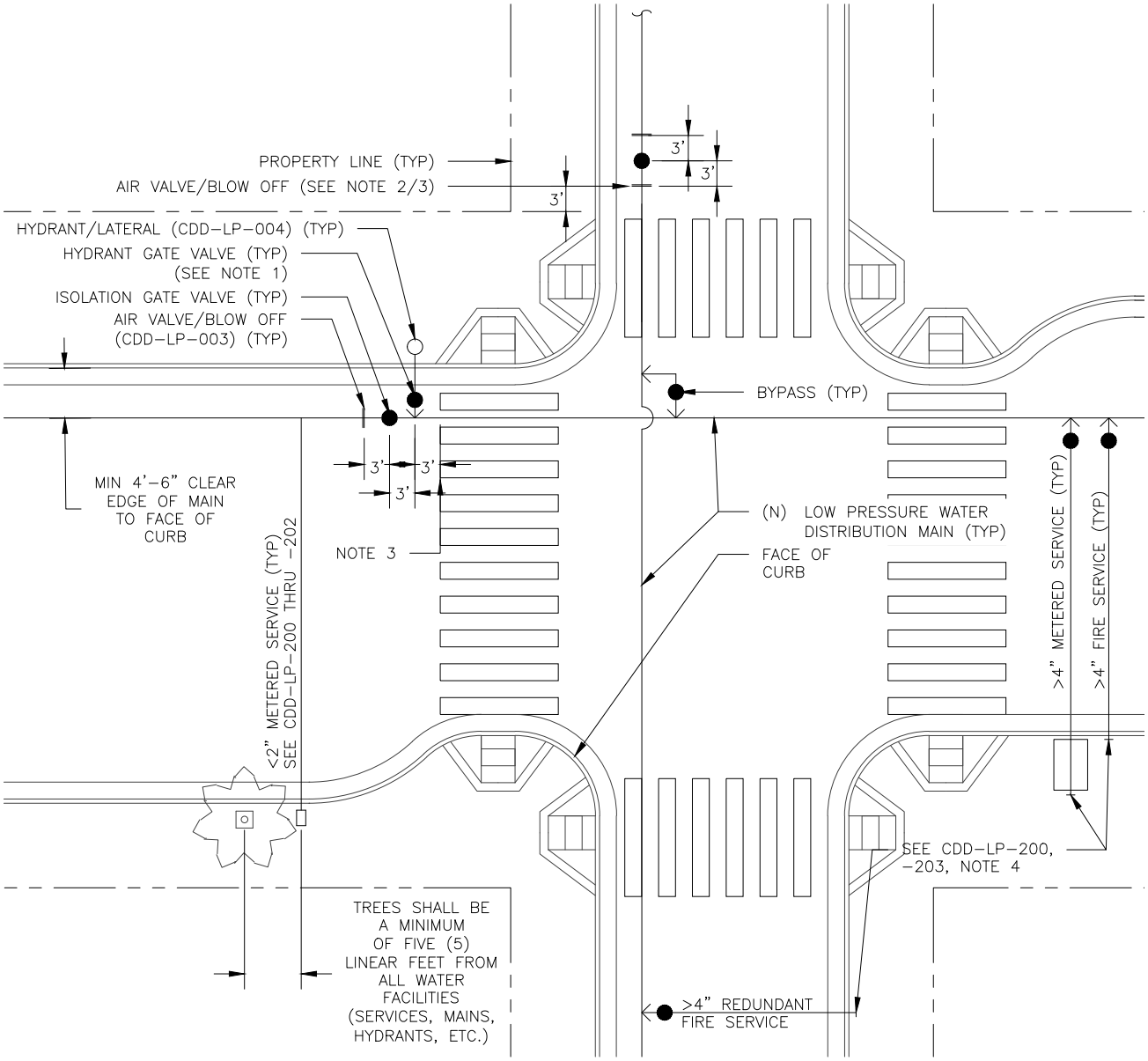
NOTES:

1. ALL GATE VALVE BOXES (INCLUDING LATERAL SERVICE AND HYDRANT GATE VALVE BOXES) MUST BE SET A MINIMUM OF EIGHTEEN (18) INCHES CLEAR OF THE FACE OF CURB AND SIX (6) INCHES CLEAR OF THE LIP OF GUTTER, MEASURED FROM THE EDGE OF THE VALVE BOX CASTING.
2. IF A HYDRANT IS PRESENT THEN THE AIR VALVE/BLOW OFF CAN BE OMITTED.
3. MAINLINE VALVES AND HYDRANT LATERALS SHALL BE SET BACK A MINIMUM OF THREE (3) FEET FROM A CROSSWALK OR EXTENSION OF PROPERTY LINE, WHICHEVER IS MOST LIMITING.
4. SERVICES SHALL BE INSTALLED WITHIN THE PROPERTY FRONTAGE FOR THE PARCELS BEING SERVED. REDUNDANT FIRE SERVICES SHALL HAVE ISOLATING GATE VALVES INSTALLED ON THE MAIN BETWEEN SERVICE LATERALS

LEGEND

- AIR VALVE/BLOW OFF (AV)
- GATE VALVE (GV)
- HYDRANT (HYD.)
- TEE FITTING
- TRUNCATED
- METER BOX/VAULT



San Francisco Water Power Sewer

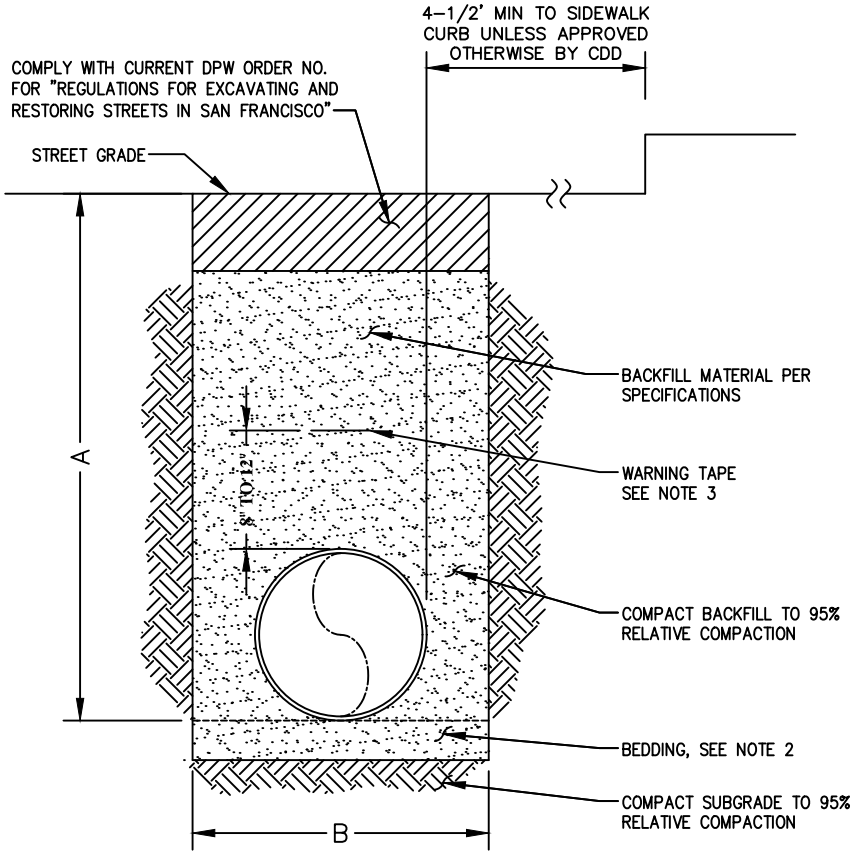
Services of the San Francisco Public Utilities Commission

WATER ENTERPRISE – CITY DISTRIBUTION DIVISION STANDARD PLANS

STANDARD PLAN FOR DUCTILE IRON PIPE MAIN INSTALLATION

POTABLE/RECYCLED WATER NEW MAIN INSTALLATION STANDARD CONFIG DETAIL VIEW

DATE	REV.	DRAWING NO.	SHEET
10/1/2017	1	CDD-LP-001B	2
SCALE N.T.S.			



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"

NOTES:

1) MINIMUM TRENCH DEPTHS AND TRENCH WIDTHS MUST BE ADHERED TO UNLESS APPROVED OTHERWISE BY THE CITY DISTRIBUTION DIVISION.

2) 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) REQUIRED BY THE CITY REPRESENTATIVE.
   BEDDING SHALL BE THE SAME AS BACKFILL MATERIAL PER SPECIFICATIONS AND SHALL BE COMPACTED TO 95% RELATIVE COMPACTION.

3) 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.

4) TRENCH CONSTRUCTION SHALL CONFORM TO OSHA AND CAL OSHA.

5) PIPE MAY BE INSTALLED DEEPER THAN DEPTH SPECIFIED HEREIN ONLY WHEN NECESSARY TO AVOID SUBSURFACE OBSTACLES AND ONLY WHEN APPROVED BY THE CITY REPRESENTATIVE.

SUPERSEDES E–4969R

San Francisco Water Power Sewer

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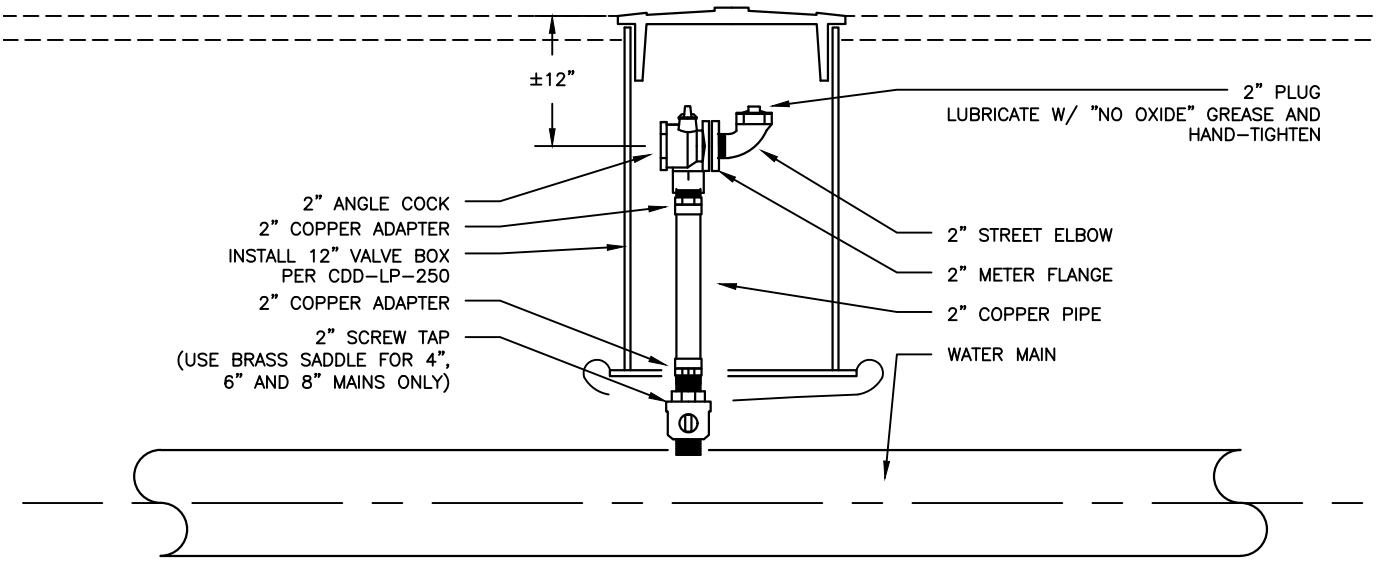
WATER ENTERPRISE – CITY DISTRIBUTION DIVISION STANDARD PLANS

STANDARD PLAN FOR DUCTILE IRON PIPE MAIN INSTALLATION
POTABLE & RECYLCED WATER PIPE TRENCH

DATE	REV.	DRAWING NO.	SHEET
8/1/2017	1	CDD–LP–002	3
SCALE N.T.S.			

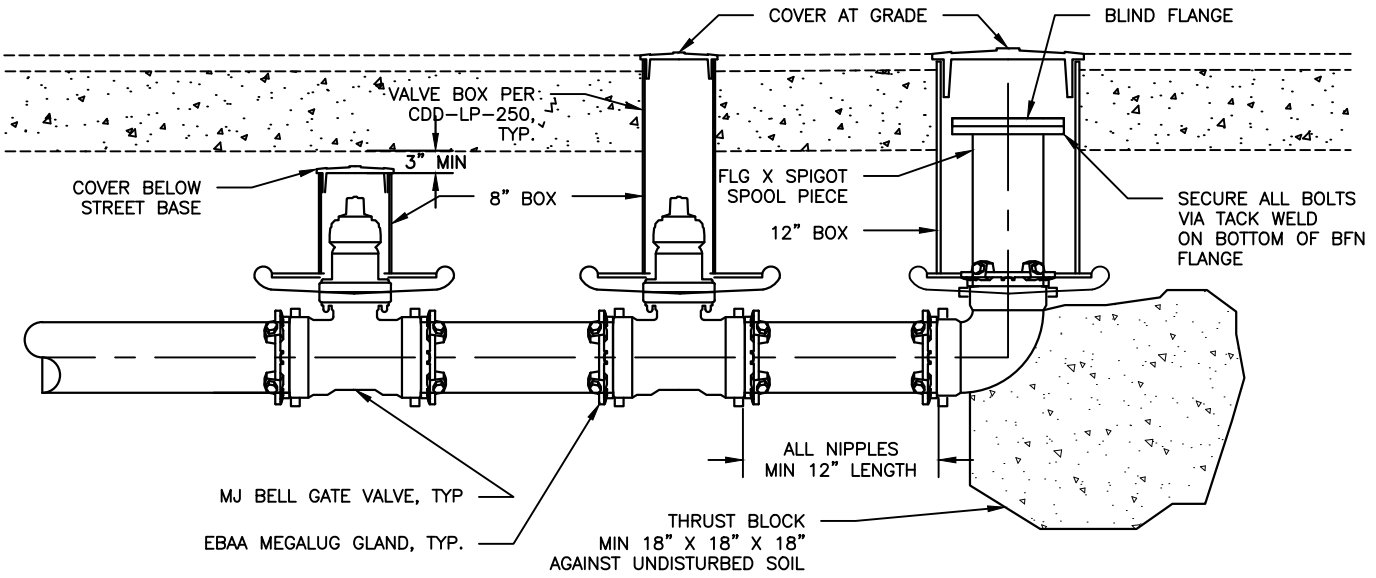
W:\ENGINEERING\03 REFERENCE INFORMATION\STANDARD PLANS\CAD\02_DRAWINGS\CDD–LP–002.DWG
ANSI FULL BLEED A (8.50 X 11.00 INCHES)

NOTE: ALL MATERIAL SHALL BE ASSEMBLED AND INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE NOTED ON PROJECT PLANS.



A 2" AIR VALVE OR BLOW OFF
– N.T.S.

NOTE: ALL MATERIAL SHALL BE ASSEMBLED AND INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE NOTED ON PROJECT PLANS.



B 4", 6" OR 8" BLOW OFF
– N.T.S.

SUPERSEDES E-4969R

San Francisco Water Power Sewer
Services of the San Francisco Public Utilities Commission

WATER ENTERPRISE – CITY DISTRIBUTION DIVISION STANDARD PLANS

STANDARD PLAN FOR DUCTILE IRON PIPE MAIN INSTALLATION AIR VALVES AND BLOW OFFS

DATE	REV.	DRAWING NO.	SHEET
5/16/2017	1	CDD-LP-003	4
SCALE N.T.S.			