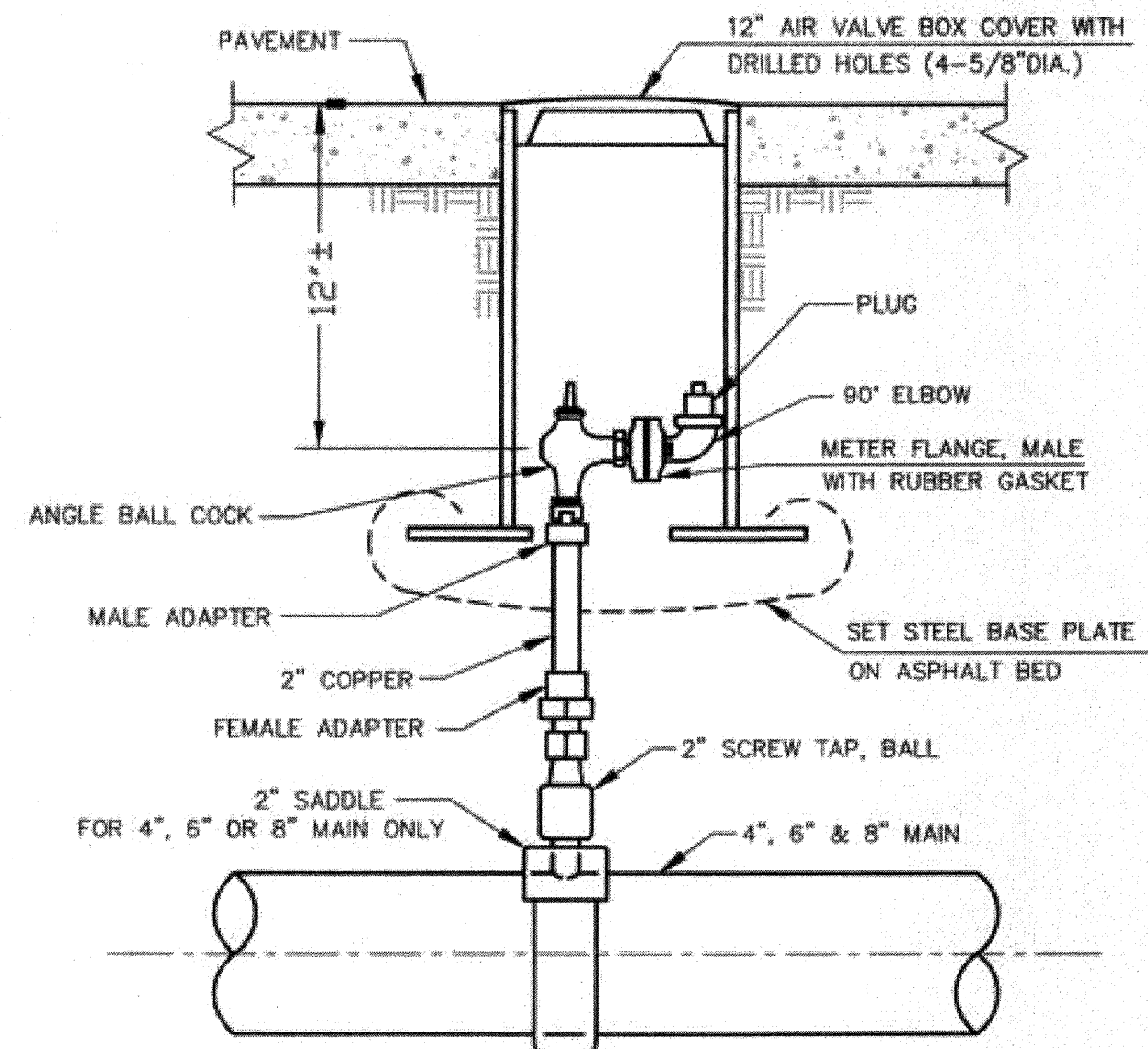
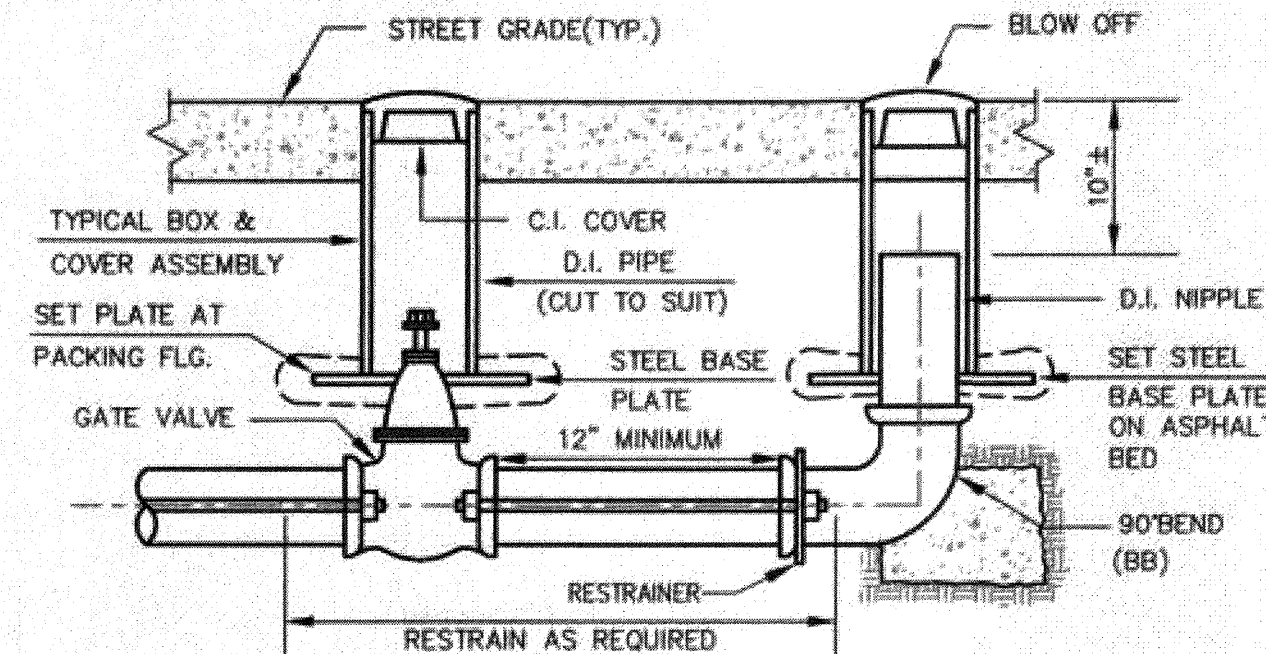


BASEMENT AREA FIRE SERVICE
SCALE: NTS



2" AIR VALVE & BLOW OFF
SCALE: NTS

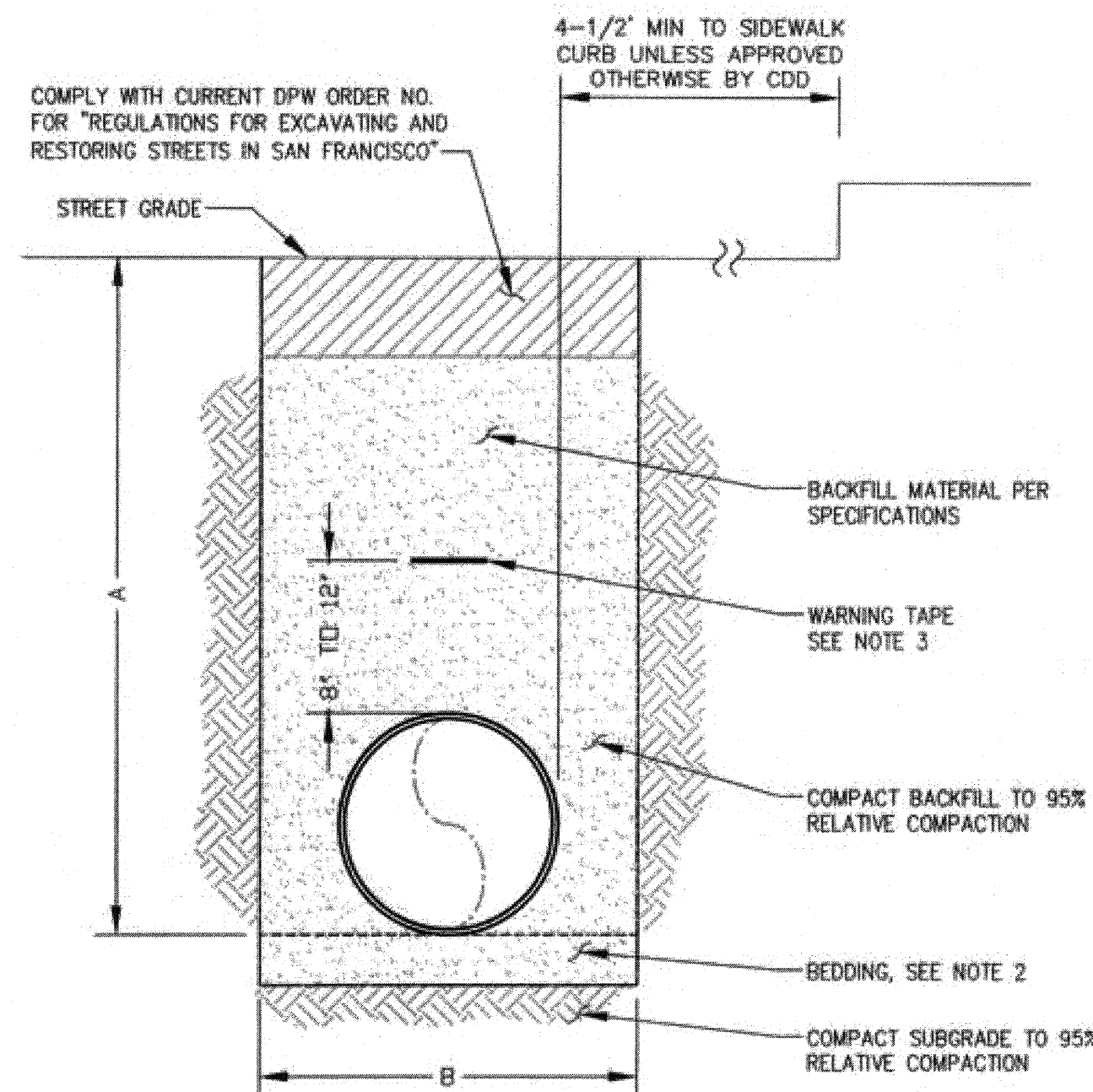


4", 6" & 8" BLOW OFF
SCALE: NTS

G.V.	BOX	B.O.	BOX
S.C.	6"	2"	12"
4"	6"	4"	6"-6"
6"	6"	6"	6"-8"
8"	8"	8"	8"-12"
12"	8"		
16"	8"		

NOTE: SEE BLOW OFF DETAILS
FOR TYPICAL BOX & COVER
ASSEMBLY DETAIL.

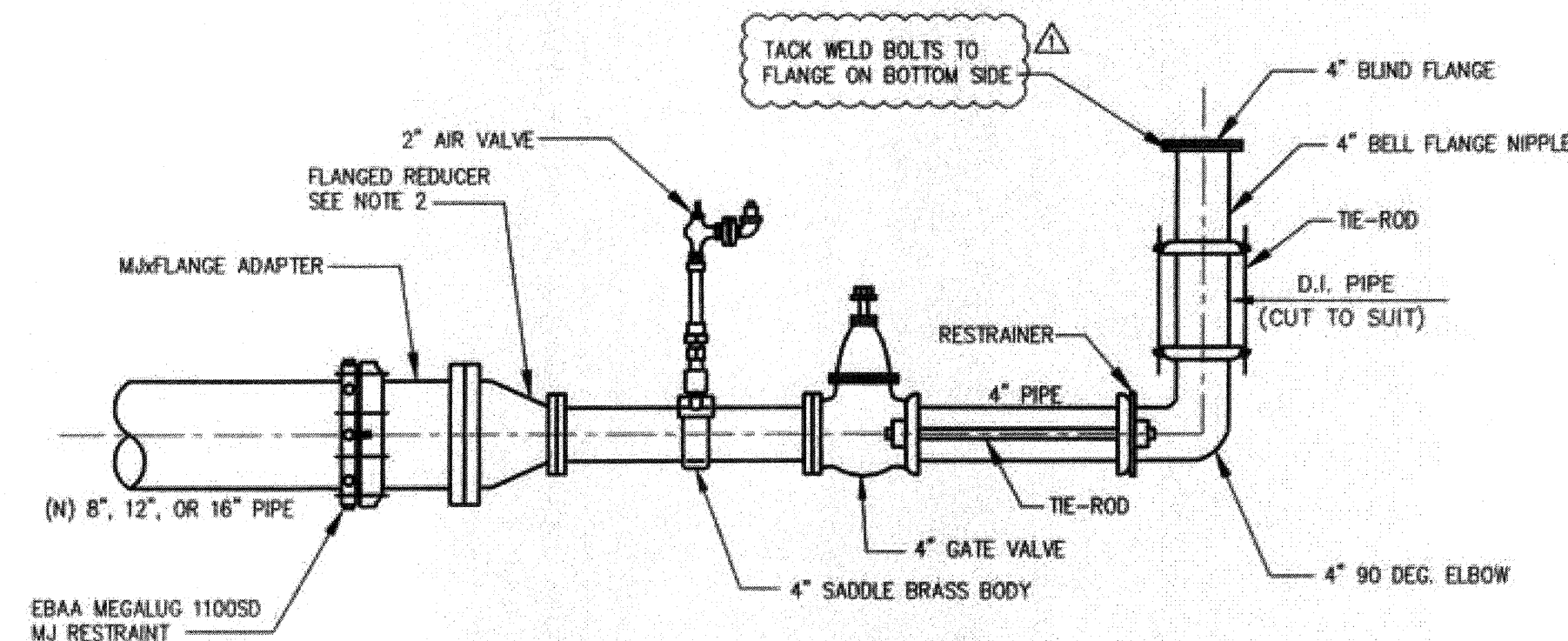
BOX & COVER SIZES
SCALE: NTS



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"

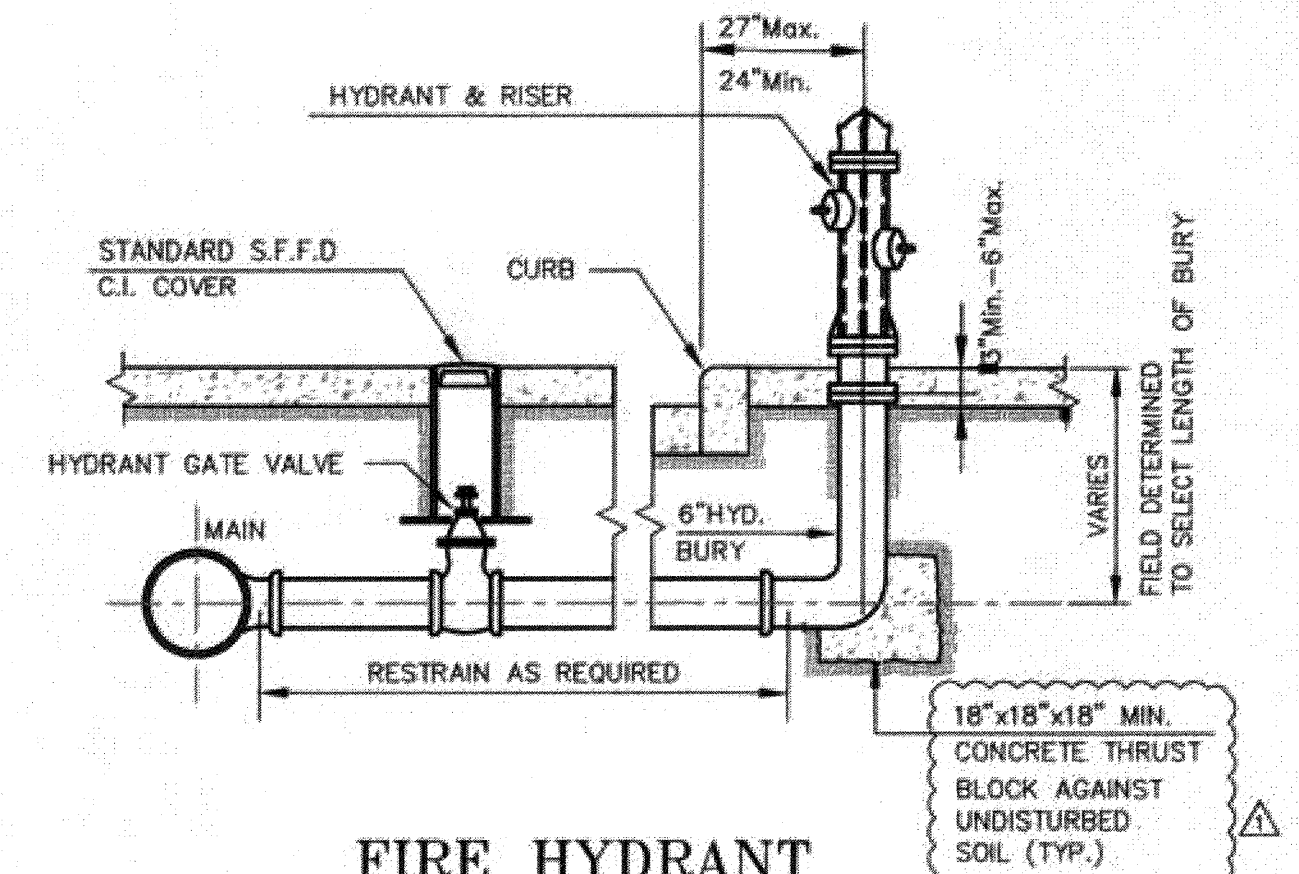
- NOTES:
- MINIMUM TRENCH DEPTHS AND TRENCH WIDTHS MUST BE ADHERED TO UNLESS APPROVED OTHERWISE BY THE CITY DISTRIBUTION DIVISION.
 - OVEREXCAVATING FOR BEDDING IS NOT REQUIRED UNLESS:
 - BOTTOM OF TRENCH EXCAVATION IS IN BEDROCK, WHERE BEDDING SHALL BE 6" THICK.
 - FOR 20" AND 24" DIA. PIPE, WHERE BEDDING SHALL BE 4" THICK.
 - REQUIRED BY THE CITY REPRESENTATIVE.
 BEDDING SHALL BE THE SAME AS BACKFILL MATERIAL PER SPECIFICATIONS AND SHALL BE COMPACTED TO 95% RELATIVE COMPACTION.
 - 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.
 - TRENCH CONSTRUCTION SHALL CONFORM TO OSHA AND CAL OSHA.

LOW PRESSURE WATER & RECYCLED WATER PIPE TRENCH
SCALE: NTS



- NOTES:
- ALL PUSH-ON JOINTS SHALL BE RESTRAINED WITH FIELD LOK GASKETS.
 - 8"x4" REDUCER, 12"x4" REDUCER, OR 16"x6" WITH 6"x4" REDUCER.
 - PROVIDE TEMPORARY BLOCKING/SUPPORT FOR FLUSHING ASSEMBLY AS NECESSARY.

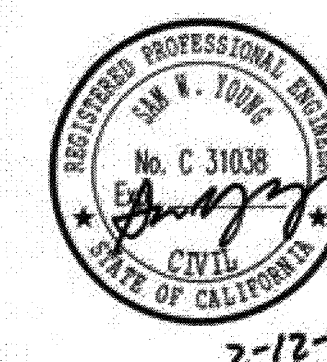
4" FLUSHING ASSEMBLY
SCALE: NTS



FIRE HYDRANT
SCALE: NTS

GENERAL NOTES:

- ALL MATERIALS SHOWN ON THE PLANS SHALL BE ASSEMBLED & INSTALLED BY THE CONTRACTOR EXCEPT WHERE NOTED OTHERWISE.
- ALL FITTINGS 2" OR LESS SHALL BE BRASS UNLESS OTHERWISE SHOWN ON THE PLANS.
- PLUGS FOR AIR VALVES & BLOW OFF ASSEMBLIES SHALL BE LUBRICATED WITH "NO OXIDE" GREASE & INSTALLED HAND TIGHT.
- METER BOXES SHALL NOT BE LOCATED IN DRIVEWAYS OR IN SIDEWALK FLAGS THAT CONTAIN OTHER UTILITIES.
- ALL METERS TO BE INSTALLED BY WATER DEPARTMENT EXCEPT WHERE NOTED.



2-12-15

NO.	DATE	DESCRIPTION	BY	APPROVED
02/12/15	02/12/15	VARIOUS REVISIONS	DL	SWY
CAUTION: CHECK WITH TRACING TO SEE IF YOU HAVE LATEST REVISION				
CITY AND COUNTY OF SAN FRANCISCO PUBLIC UTILITIES COMMISSION SAN FRANCISCO WATER DEPARTMENT				
STANDARD PLAN FOR DUCTILE IRON PIPE MAIN INSTALLATIONS				
SECTION ENGINEER	DESIGNED BY	DRAWN BY	DATE	
S. YOUNG	D. LEE	G. CHU	02/12/14	
CHECKED BY	SCALE	AS SHOWN		
J. LUM				
APPROVED	DRAWING NO.	REVISION NO.		
2-12-15	E-4969R			