## **GENERAL NOTES**

- 1. FOR 3" AND LARGER PIPES, HEAVY LINES AND SYMBOLS INDICATE WORK TO BE DONE BY THE CONTRACTOR AND SFWD. LIGHT LINES AND SYMBOLS INDICATE EXISTING MAINS.
- 2. PIPES LESS THAN 3" IN DIAMETER (SERVICE PIPES) ARE SHOWN IN LIGHT LINES, SIZES SHOWN ARE FOR EXISTING TAP SIZES. FOR ADDITIONAL INFORMATION, REFER TO THE SERVICE LIST IN THE TECHNICAL SPECIFICATIONS.
- 3. THE LOCATION AND GENERAL ARRANGEMENT OF UNDERGROUND UTILITIES, UNDERGROUND STRUCTURES, PIPE LINES WITH FITTINGS, VALVES AND APPURTENANCES, WHERE SHOWN, ARE DIAGRAMMATIC.
- 4. INFORMATION AS TO UNDERGROUND AND/OR OTHER CONDITIONS AS INDICATED BY ADJUSTMENTS IN PIPE ALIGNMENT, OR OBSTRUCTION SHOWN ON THE PLANS AND/OR SPECIFICATIONS HAS BEEN OBTAINED WITH REASONABLE CARE BASED ON INFORMATION OBTAINED FROM AVAILABLE RECORDS OF THE OWNERS OF THE UTILITIES AND HAS BEEN RECORDED IN GOOD FAITH.
- 5. THERE IS NO EXPRESSED OR IMPLIED AGREEMENT THAT THE WATER DEPARTMENT AND THE OWNERS OF UTILITIES MAKE ANY REPRESENTATION AS TO THE COMPLETENESS OR ACCURACY OF SAID INFORMATION OF UTILITY FACILITIES THAT MAY HAVE BEEN PLACED OR INDICATED HERE ON.
- 6. THE PROPOSED LOCATION WITHIN THE STREET OR SIDEWALK AREA FOR FACILITIES TO BE CONSTRUCTED UNDER THIS CONTRACT, AS SHOWN ON THE PLANS, IS APPROXIMATE ONLY. THE CONTRACTOR SHALL DIG TEST HOLES TO DETERMINE THE EXACT LOCATION OF THE WORK WITHIN THE STREET OR SIDEWALK AREA. CHANGES IN THE ALIGNMENT OF ANY PORTION OF THIS WORK WHICH MAY RESULT IN DIFFERENT CONSTRUCTION METHODS OR DIFFERENT CONDITIONS, SUCH AS REQUIRING HAND DIGGING FOR PORTIONS OF THE WORK, WILL NOT BE SUBJECT TO CLAIM FOR ANY EXTRA PAYMENT.
- 7. AT THE TIME OF BID OPENING, THE CONTRACTOR SHALL POSSESS A VALID CLASS "A" CALIFORNIA GENERAL ENGINEERING CONTRACTOR'S LICENSE.
- 8. CONTRACTOR SHALL PROVIDE 21 DAYS ADVANCE NOTICE REQUEST FOR WATER DEPARTMENT PIPELINE INSTALLATION ASSOCIATED WITH RELOCATION WORK ALONG WITH ALL CONNECTION WORK.
- 9. CONTRACTOR SHALL COMPLETE ALL TRAFFIC CONTROL. SAW CUTTING. EXCAVATION. BACKFILL, SHORING, COMPACTION, PAVEMENT RESTORATION AND ALL OTHER SPECIFIED WATER DEPARTMENT SUPPORT ACTIVITIES ASSOCIATED WITH PIPELINE AND VALVE RELOCATION WORK, WATER BETTERMENT AND NIGHT TIME WORK BY CDD AS IDENTIFIED IN BID ITEMS.
- 10. CONTRACTOR SHALL DOWNLOAD SFPUC CITY DISTRIBUTION DIVISION STANDARD PLANS FOR ALL DETAILS FROM:
- http://sfwater.org/waterplans

PLOT: EXTEND

22,34

RED 0.70MM

YELLOW 0.20MM

GREEN 0.25MM

CYAN 0.40MM

BLUE 0.50MM MAGENTAO.20MM

WHITE 0.35MM

GRAY

10

100 210

0.15MM 0.15MM

1.00MM

0.70MM 0.60MM

SCALE: 1:1

COLOR: No.

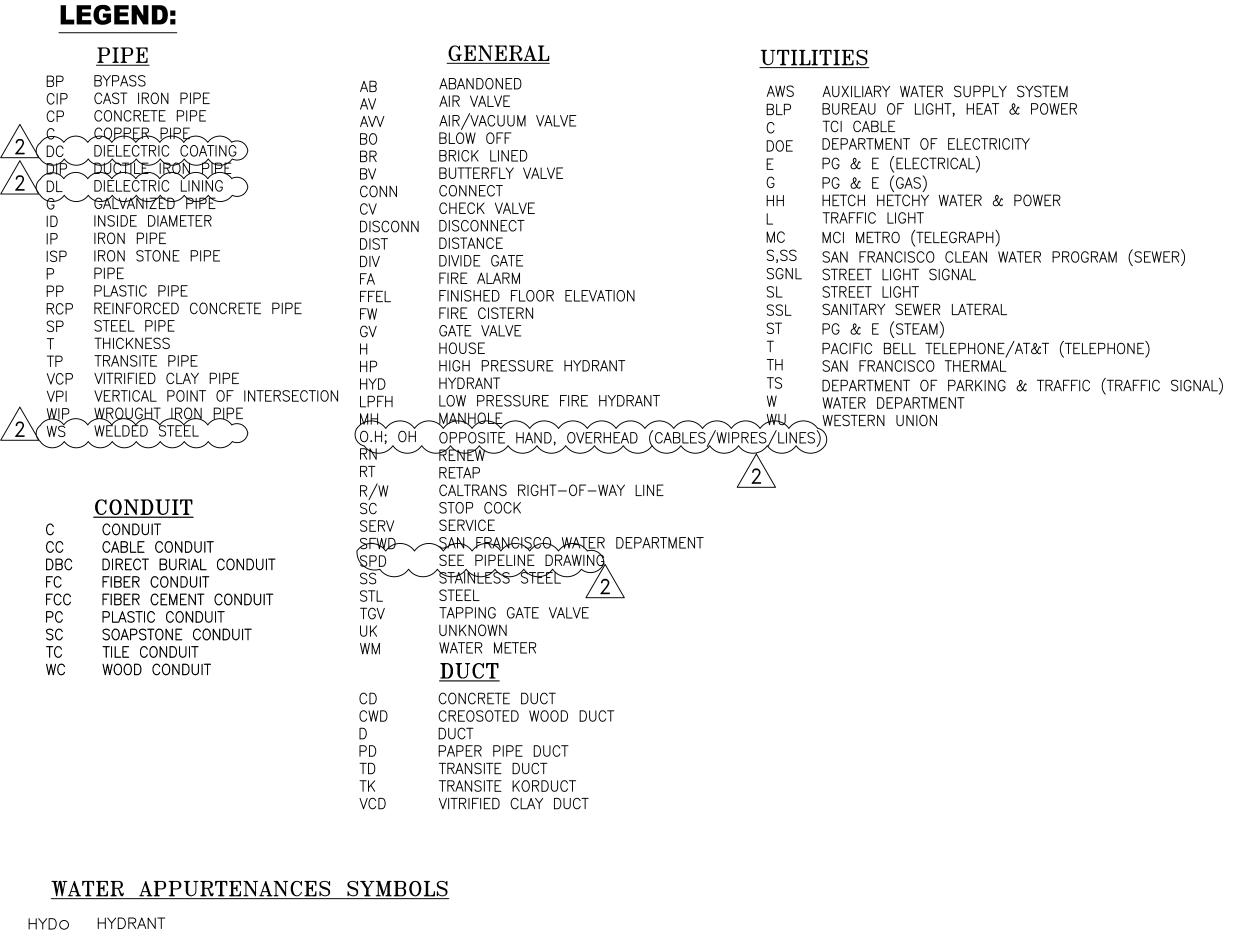
BORDER:

11. FIRE HYDRANT REMOVAL, CONNECTION AND DISCONNECTION OF EXISTING WATER PIPELINE AND APPURTENANCES SHALL BE PERFORMED BY SFWD.

- 12. CONTRACTOR SHALL COORDINATE WITH SFWD FOR PIPE SHUTDOWN ON SLOAT BOULEVARD PRIOR TO COMMENCING WORK.
- 13. ALL DIMENSIONS AND CLEARANCES SHALL BE FIELD VERIFIED. CONTRACTOR SHALL CONFIRM EXTENT OF PIPELINE REMOVAL WITH CITY REPRESENTATIVE AS NECESSARY TO INSTALL NEW PIPING AND VALVES.
- 14. CONTRACTOR SHALL PROTECT ALL PIPING, STRUCTURES & FEATURES TO REMAIN IN PLACE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR SHALL REPAIR EXISTING UTILITIES, STRUCTURES & FEATURES DAMAGED DURING CONSTRUCTION TO THE SATISFACTION OF THE CITY REPRESENTATIVE.
- 15. TYPE A WORK: CONTRACTOR SHALL ADJUST EXISTING WATER FACILITIES, INSTALL 36-INCH AND SMALLER DUCTILE IRON PIPE, PIPE FITTINGS, APPURTENANCES, FIRE HYDRANT BURYS, CAPS WITH AIR VALVES/BLOW OFFS AND FLUSHING ASSEMBLIES AND THE V-BIO ENHANCED POLYETHYLENE ENCASEMENT.

TYPE B WORK: SFWD WILL ADJUST EXISTING WATER FACILITIES, INSTALL 8-INCH DUCTILE IRON PIPE, PIPE FITTINGS, APPURTENANCES, FIRE HYDRANT BURYS, CAPS WITH FLUSHING ASSEMBLIES AND THE V-BIO ENHANCED POLYETHYLENE ENCASEMENT.

- 16. CONTRACTOR SHALL NOTIFY PG&E AT LEAST 48 HOURS IN ADVANCE BEFORE PERFORMING ANY WORK OR ACTIVITIES, INCLUDING BUT NOT LIMITED TO SUBGRADING, TRENCHING, POTHOLING, EXCAVATION OR INSTALLATION OF THE WATER MAIN, WITHIN 10 FEET OF ANY GAS LINE.
- 17. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL, TEMPORARY PAVING AND ALL RELATED SUPPORTIVE EARTH WORK SUCH AS SHORING, EXCAVATION AND BACKFILL.
- 18. SFWD WILL CONNECT NEW WATER LINES TO EXISTING WATER LINES AND DISCONNECT EXISTING WATER LINES FROM THE SYSTEM.
- 19. SFWD WILL RELOCATE ALL EXISTING WATER METER BOXES TO FIRST FLAG IN SIDEWALK BY CURB AND RENEW ALL WATER SERVICES.



EXISTING REDUCER

NEW REDUCER

EXISTING BLOW-OFF VALVE

AIR VALVE/BLOW-OFF VALVE

DIVIDE GATE VALVE

< TEE

NEW GATE VALVE/BUTTERFLY VALVE

→ NEW CAP W/2" AV/BO

A NEW CAP W/FLUSHING ASSEMBLY

## STRUCTURE SYMBOLS

MANHOLE

SEWER MANHOLE

 $(\mathbb{S})$ 

PULL BOX, JUNCTION BOX OR SPICE BOX OR CABLE BOX

VAULT

(SEWER - 18" VITRIFIED CLAY PIPE)

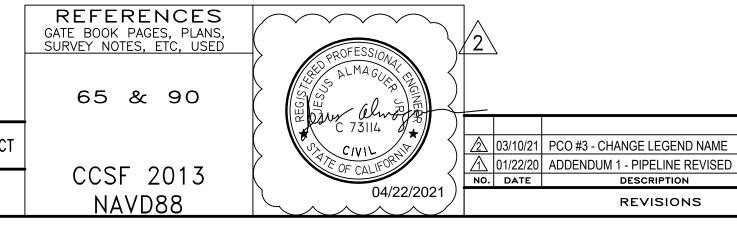
(TELEPHONE - FOUR DUCTS - 3" FIBER CONDUIT)

EXISTING ABANDONED UTILITY

— MAIN TO BE ABANDONED IN THIS CONTRACT

CATCH BASIN

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



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 O 8-INCH DUCTILE IRON WATER MAINS AT VARIOUS LOCATIONS ON 19TH AVENUE FROM HOLLOWAY AVENUE TO LINCOLN WAY

GENERAL NOTES AND LEGEND

BY / EC AS SHOWN T. LEE OCT 2018 APPROVED William P. Teahan MANAGER, ENGINEERING MANAGEMENT BUREAU MANAGER, CITY DISTRIBUTION DIVISION E-31363

AC JA

MM BY

DESCRIPTION

REVISIONS

BY APPR'D

PLAN APPROVAL DATE CONTRACT No. PROJECT ID DISTRICT COUNTY ROUTE POST MILES TOTAL PROJECT 04-0G350 0400000325 R0.94/4.05 SF