

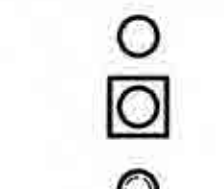
LEGEND

SIZE & TYPE

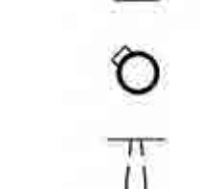


EXISTING SEWER OR CULVERT  
EXISTING MH  
EXISTING CB, SWI  
EXISTING HIGH CAPACITY CB  
EXISTING SIDE SEWER AND FRESH AIR INLET  
EXISTING MUNI TRACKS  
EXISTING MUNI OVERHEAD WIRES

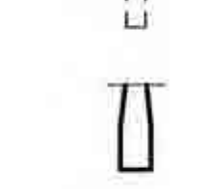
SIZE & TYPE



NEW SEWER OR CULVERT  
NEW MH PER SFPDW STD PLAN 87,181  
NEW MH PER SFPDW STD PLAN 87,182  
REPLACE (E) MH PER SFPDW STD PLAN 87,181  
MORTAR EXISTING MH  
ABANDON EXISTING MH  
REPLACE (E) MH PER SFPDW STD PLAN 87,182  
REPLACE (E) MH W/ ANGLE MH PER SFPDW STD PLAN 87,182



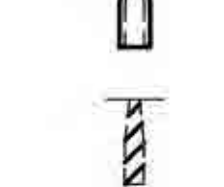
PAMREX MH COVER  
EXISTING MH



NEW MH  
MORTAR EXISTING MH



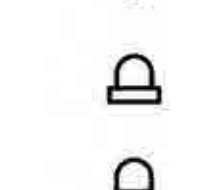
REPLACE EXISTING MH  
ABANDON EXISTING MH



REMOVE EXISTING MH  
EXISTING SURVEY MONUMENT



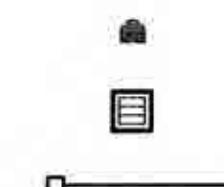
NEW CB PER SFPDW STD PLAN 87,187  
AND DETAIL 1 ON SW-G3  
NEW CB PER SFPDW STD PLAN 87,188



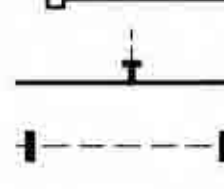
NEW CB PER SFPDW STD PLAN 87,189  
REPLACE (E) CB PER SFPDW STD PLAN 87,188



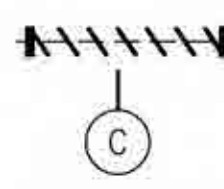
ABANDON EXISTING CB  
REPLACE (E) SWI PER SFPDW STD PLAN 87,189



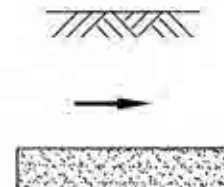
NEW SS PER SFPDW STD PLAN 87,196  
NEW 6" OR 8" SS CONNECTION TO MAIN SEWER



PLUG EXISTING FACILITIES  
PLUG AND FILL EXISTING FACILITIES



APPROXIMATE LOCATION OF CUT-OFF WALL  
APPROXIMATE PAVEMENT SURFACE



DIRECTION OF FLOW  
SLURRY GROUT SHOWN IN SECTION OR PROFILE



CALTRANS RIGHT OF WAY

ABBREVIATIONS

± PLUS OR MINUS  
ACWS ASPHALT CONCRETE WEARING SURFACE  
APPROX APPROXIMATE  
AVE AVENUE  
AWSS AUXILIARY WATER SUPPLY SYSTEM  
B&S BELL AND SPIGOT  
BLVD BOULEVARD  
BRK BRICK  
CB CATCHBASIN  
CF CUBIC FEET  
CH CHANGE  
CIPL CURED IN-PLACE LINER  
CONC CONCRETE  
C-C CENTER TO CENTER  
CY CUBIC YARD  
DET DETAIL  
DIA OR Ø DIAMETER  
DIP DUCTILE IRON PIPE  
DWG DRAWING  
E EAST  
(E) EXISTING  
EF EACH FACE  
EMBED EMBEDMENT  
EL ELEVATION  
ENGR ENGINEER  
EQ EQUAL  
HDPE HIGH DENSITY POLYETHYLENE PIPE  
HMA/HMA-A HOT MIX ASPHALT/HOT MIX ASPHALT TYPE A  
FGP FIBERGLASS PIPE  
HORIZ HORIZONTAL  
HWY HIGHWAY  
ID INSIDE DIAMETER  
INV INVERT  
ISP IRON STONE PIPE  
LF LINEAR FEET  
MAX MAXIMUM  
MH MANHOLE  
MIN MINIMUM  
N NORTH  
(N) NEW  
NIC NOT IN CONTRACT  
NO. NUMBER  
NTS NOT TO SCALE  
OC ON CENTER  
OD OUTSIDE DIAMETER  
PL PROPERTY LINE  
RC REINFORCED CONCRETE  
RCP REINFORCED CONCRETE PIPE  
ROW RIGHT OF WAY  
S SOUTH  
SF SQUARE FEET  
S.F. SAN FRANCISCO  
SFPDW SAN FRANCISCO DEPARTMENT OF PUBLIC WORKS  
SL SLOPE  
SPECS SPECIFICATIONS  
SS SIDE SEWER  
ST STREET  
STD STANDARD  
SWI STORM WATER INLET  
THRU THROUGH  
(TYP) TYPICAL  
VERT VERTICAL  
VCP VITRIFIED CLAY PIPE  
W WEST  
W/ WITH  
W/O WITHOUT

GENERAL NOTES

- NUMBER AND LOCATIONS OF SIDE SEWER CONNECTIONS ARE APPROXIMATE. CONTRACTOR SHALL VERIFY SIDE SEWER CONNECTIONS IN THE FIELD.
- ALL GROUND SURFACE ELEVATIONS AND INVERT ELEVATIONS TO BE CONFORMED ARE APPROXIMATE.
- ELEVATIONS ARE IN REFERENCE TO CCSF SF2013 NAVD88 VERTICAL DATUM.
- IN ACCORDANCE WITH THE PROVISIONS OF THE CALIFORNIA PUBLIC CONTRACT CODE SECTION 3300, A BID SUBMITTED TO A PUBLIC AGENCY BY A CONTRACTOR WHO IS NOT LICENSED IN ACCORDANCE WITH CHAPTER 9 OF THE BUSINESS AND PROFESSIONS CODE SHALL BE CONSIDERED NON-RESPONSIVE AND SHALL BE REJECTED BY THE PUBLIC AGENCY.
- AT THE TIME THIS CONTRACT IS BID, THE CONTRACTOR SHALL POSSESS A STATE OF CALIFORNIA CLASS "A" GENERAL ENGINEERING CONTRACTOR'S LICENSE.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN EXCAVATION PERMIT FROM SFPDW-STREET CONSTRUCTION COORDINATION CENTER LOCATED AT 1155 MARKET STREET, 3RD FLOOR.
- MAXIMUM TRENCH WIDTH SHALL BE THE LARGER OUTSIDE DIMENSION OF THE NEW OR EXISTING SEWER/STRUCTURE PLUS 1.5 FEET ON EACH SIDE.
- ALL NEW VCP MAIN SEWERS SHALL BE CONSTRUCTED ON CRUSHED ROCK BEDDING PER DETAIL SHOWN IN SW-G2.
- PIPE LENGTH SHOWN IN PROFILE INDICATES HORIZONTAL DISTANCE EXCLUDING INSIDE DIMENSION OF EACH SEWER MANHOLE/STRUCTURE.
- AFTER SEWER WORK HAS BEEN COMPLETED, THE CONTRACTOR SHALL CLEAN ALL CATCHBASINS SHOWN ON SW-DRAWINGS AND REPLACE CAST IRON WATER TRAP AS DIRECTED BY THE CITY REPRESENTATIVE.
- CONTRACTOR SHALL PROTECT ALL SURVEY MONUMENTS AND BENCHMARKS LOCATED WITHIN THE CONTRACT LIMIT. CITY MONUMENTS LOCATED WITHIN 10 FEET OF TRENCH MUST BE REFERENCED PRIOR TO ANY DEMOLITION, AND A CORNER RECORD MUST BE FILED WITH THE COUNTY SURVEYOR'S OFFICE BY CONTACTING BUREAU OF STREET-USE AND MAPPING AT (415) 554-5829. THE MONUMENTS MUST BE REVISITED AFTER CONSTRUCTION HAS BEEN COMPLETED TO VERIFY THAT NO MOVEMENT HAS OCCURRED. IF MONUMENTS ARE NOT REFERENCED PRIOR TO CONSTRUCTION, THE CITY WILL CHARGE \$10,000 A PIECE TO THE CONTRACTOR FOR REESTABLISHING THE MONUMENT.
- PRIOR TO ABANDONING EXISTING SEWER FACILITIES, CONTRACTOR SHALL VERIFY THAT THERE ARE NO ACTIVE CONNECTIONS TO THESE FACILITIES. CONTRACTOR SHALL NOTIFY CITY REPRESENTATIVE IMMEDIATELY OF ANY DISCREPANCIES.
- RIM ELEVATIONS OF PROPOSED SEWER MANHOLES SHALL CONFORM TO FINISHED ROADWAY ELEVATIONS.
- CONTRACTOR SHALL VERIFY EXACT DIAMETER AND LENGTH OF EXISTING SEWER TO BE LINED PRIOR TO MANUFACTURING THE LINER.
- SPRAY MORTAR SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 6000 PSI AT 7 DAYS. FOR SURFACE PREPARATIONS AND ADDITIONAL REQUIREMENTS, REFER TO SPECIFICATION SECTION 33 33 00.
- SIDE SEWER SHALL BE CONNECTED TO THE MAIN AT OR ABOVE THE SPRING LINE UNLESS OTHERWISE DIRECTED BY THE CITY REPRESENTATIVE.
- HORIZONTAL AND VERTICAL LOCATIONS OF UTILITY CROSSINGS SHOWN ON THE PROFILES ARE APPROXIMATE. CONTRACTOR SHALL VERIFY EXACT LOCATIONS IN THE FIELD.

NO.	DATE	DESCRIPTION	BY	APP.
0	12/19	ISSUE FOR BID	BN	LW
TABLE OF REVISIONS				

REFERENCE INFORMATION  
& FILE NO. OF SURVEYS



BUREAU OF ENGINEERING  
CITY & COUNTY OF SAN FRANCISCO  
SAN FRANCISCO PUBLIC WORKS  
30 VAN NESS AVENUE, 5TH FLOOR  
SAN FRANCISCO, CA 94102 - 8028

Section Mgr: LESLEY WONG	Date: 12/12/19
Deputy Bureau Mgr: FERNANDO CISNEROS	12/16/19
Acting Bureau Mgr: IOBAL DHAPA	12/16/19

DESIGNED: DATE: B.NG BN 12/2019
DRAWN: DATE: S.LIM SL 12/2019
CHECKED: DATE: G.FONG CF 12/2019



SCALE: AS SHOWN
SHEET OF SHEETS: 122 OF 356

19TH AVENUE (STATE ROUTE 1) COMBINED CITY PROJECT
19TH AVENUE SEWER REPLACEMENT LEGEND, ABBREVIATIONS AND GENERAL NOTES FOR SEWER WORK

CONTRACT ID 1000005832
DRAWING NO. SW-G1
FILE NO. 111,420
REV. NO. 0