

**PLAN**  
SCALE: 1"=20'

**NOTES:**

1. PRIOR TO LINING WORK, CLEAN EXISTING MANHOLE AND SEWER SURFACES WITH HIGH VELOCITY HYDRO CLEANING EQUIPMENT IN ACCORDANCE WITH SPECIFICATION SECTION 33 30 00.
2. PRIOR TO ORDERING THE LINER, THE LINING CONTRACTOR SHALL TAKE FIELD MEASUREMENTS TO DETERMINE EXACT INSIDE DIMENSIONS AND LENGTH OF SEWERS TO BE LINED. FOR EVERY 50' LENGTH OF SEWER AT LEAST ONE MEASUREMENT SHALL BE TAKEN. LOGS OF MEASUREMENTS SHALL BE SUBMITTED TO CITY REPRESENTATIVE FOR RECORDS.
3. OUTSIDE DIMENSIONS OF CURED-IN-PLACE LINER SHALL BE EQUAL TO INSIDE DIMENSION OF EXISTING SEWER TO BE LINED. SUBMITTALS SHALL SPECIFY SIZE OF LINERS TO BE USED FOR EACH SEWER.
4. CONTRACTOR SHALL POTHOLE FOR EXACT LOCATION OF ELECTRICAL LINE PRIOR TO CULVERT/CB CONSTRUCTION.

SEWER SIZED BY B.S. *BS*  
APPROVED BY B.S. *BS*

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**2'x3' RC SEWER LINING DETAIL 1**  
SCALE: NONE

ELEVATION DATUM NAVD88	PLAN APPROVAL DATE	CONTRACT No.	PROJECT ID	DISTRICT	COUNTY	ROUTE	POST MILES TOTAL PROJECT
		04-0G3501	0400000325	04	SF	1	R0.94/4.05

NO.	DATE	DESCRIPTION	BY	APP.
1	11/21	ADD CB AND CULVERT	BN	LW

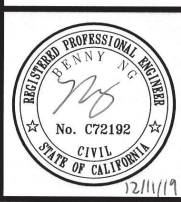
REFERENCE INFORMATION & FILE NO. OF SURVEYS  
A-1949  
A-12821  
A-13591  
A-13591.1



**BUREAU OF ENGINEERING**  
CITY & COUNTY OF SAN FRANCISCO  
**SAN FRANCISCO PUBLIC WORKS**  
30 VAN NESS AVENUE, 5TH FLOOR  
SAN FRANCISCO, CA 94102 - 6028

Section Mgr: LESLEY WONG	Date: 12/21/19
Deputy Bureau Mgr: FERNANDO CISNEROS	Date: 12/16/19
Acting Bureau Mgr: IQBAL DHAPA	Date: 12/16/19

DESIGNED: B.NG	DATE: 12/21/19
DRAWN: S.LIM	DATE: 12/21/19
CHECKED: G.FONG	DATE: 12/21/19



SCALE: AS SHOWN  
SHEET OF SHEETS: 166 OF 356

**19TH AVENUE (STATE ROUTE 1)  
COMBINED CITY PROJECT**  
  
**19TH AVENUE SEWER REPLACEMENT  
STA 122+95 TO STA 128+95  
PLAN**

CONTRACT ID: 1000005832  
DRAWING NO.: SW-21  
FILE NO.: 111,464  
REV. NO.: 01