

NOTE: FIGURES IN TABULATION ARE INCREASED BY 5% OVER CALCULATED LEAD QUANTITIES. PAYMENT FOR LEAD JOINTS SHALL BE MADE ACCORDING TO QUANTITIES SHOWN ON THIS TABLE.

ORIGINAL DRAWING DATED JANUARY 1935 AND APPROVED BY JOHN J. CASEY, CITY ENGINEER. REVISED 06/17/36 BY ADDING TABULATION FOR 10" PIPE.

SCALE: NONE

CITY AND COUNTY OF SAN FRANCISCO DEPARTMENT OF PUBLIC WORKS-BUREAU OF ENGINEERING LEAD QUANTITIES IN STANDARD CI JOINTS DATE: 7/9/2010

BY: NL 07/10 APP'D MANAGER, GES DIVISION SHEET 1 OF 1

CH'D: MBS 07/10 APP'D CHIEF, BUREAU OF ENGINEERING DETAIL: HPL-5541.2

B B A A A

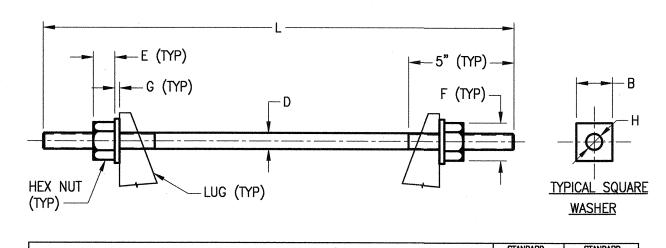
NOM. SIZE	Α	В	С	Т	APPROX WT., LBS
10"x 10"x8"	11	12	8	3/4	420
12"x12"x8"	12	13	8	3/4	535
14"x14"x8"	14	15	8	3/4	650
16"x16"x8"	15	16	8	3/4	790
18"x18"x8"	13	16.5	8	13/16	900
20"x20"x8"	14	18	8	15/16	1100

NOTES:

FOR AWSS MECHANICAL JOINT BELL, REFER TO DWG NO. HPL-39,412, CH3..
 FLANGE DIMENSION SHALL CONFORM TO ANSI B16.42-1979 CLASS 300.

CITY AND COUNTY OF SAN FRANCISCO
DEPARTMENT OF PUBLIC WORKS-BUREAU OF ENGINEERING
DUCTILE IRON M.J. BELL x AWSS M.J. BELL x FLANGE HYDRANT TEE

		ADD'D		DATE:	2/08	/2005
BY:	DEM	APP'D	MANAGER, GES DIVISION	REVISI	ON:	28
CH'D:	MBS	APP'D	CHIEF, BUREAU OF ENGINEERING	DETAI	L: HPL-	-5967.1



	DIMEN	Standard Bell & Spigot Joints	Standard Sleeve Joints					
PIPE SIZE	D	E	F	G	Н	В	L	
8	1-1/8"	1	1-3/16"	1/4"	1-7/16"	2-1/2"	22	32
10	1-1/4"	1-1/8"	1 1	1/4"	1-9/16"	2-3/4"	24	36
12	1-3/8"	1-1/4"	2-3/16"	5/16"	1-11/16"	3-1/4"	26	40
14	1-3/8"	1-1/4"	2-3/16"	5/16"	1-11/16"	3-1/2"	20"	41
16	1-1/2"	1-3/8"	2-3/8"	5/16"	1-11/16"	3-1/2"	29	47
18	1-3/4"	1-5/8"	2-3/4"	3/8"	2-1/16"	3-3/4"	31	51
20	1-7/8"	1-3/4"	2-15/16"	7/16"	2-3/16"	4	33	54

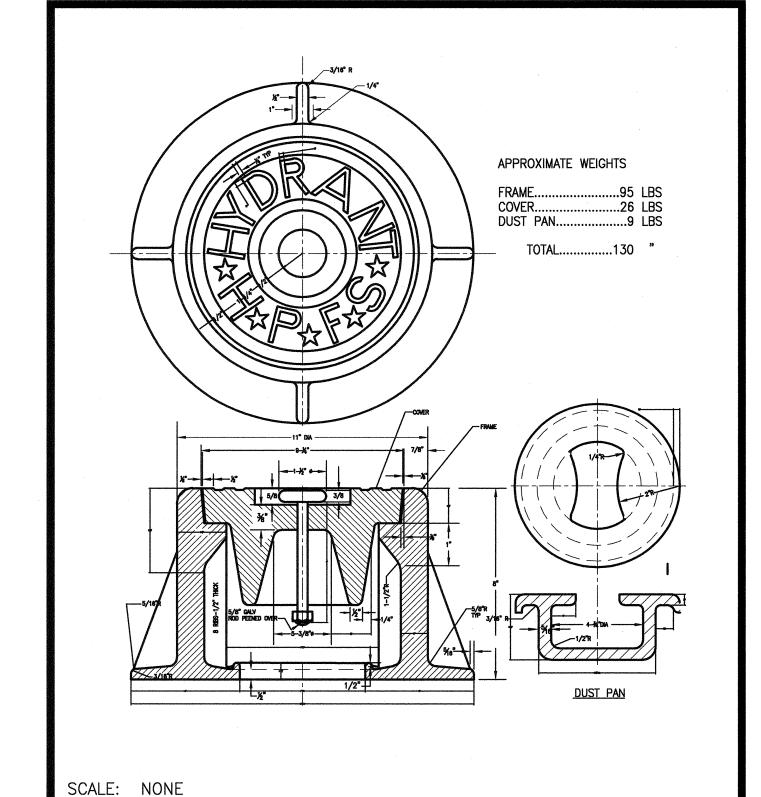
GENERAL NOTES

- 1. THREADS SHALL CONFORM TO THE ANSI FOR SCREW THREADS B1.1 COARSE THREAD SERIES WITH CLASS 2A TOLERANCE FOR BOLTS AND CLASS 2B FOR NUTS. 1-5/8 Ø THREADS MAY BE 8UN.
- 2. BOLTS, TIE RODS, NUTS AND WASHERS SHALL BE OF AUSTENITIC STAIN-LESS STEEL CONFORMING TO AMERICAN IRON AND STEEL INSTITUTE. (ANSI) AND AMERICAN SOCIETY OF TESTING MATERIALS (ASTM) SPECIFICATIONS. ALL BOLTS SHALL CONFORM TO ASTM A-193, SYMBOL BBM (ANSI TYPE 316). ALL NUTS AND SLEEVES SHALL CONFORM TO ASTM 194, SYMBOL 8M (ANSI TYPE 316). ALL TIE RODS, THREADED RODS AND WASHERS SHALL CONFORM TO ANSI TYPE 316.
- 3. EXACT BOLT LENGTHS REQUIRED FOR OTHER JOINTS SHALL BE DETERMINED IN THE FIELD.
- 4. CONTINUOUSLY THREADED RODS MAY BE SUBSTITUTED.

SCALE: NONE

CITY AND COUNTY OF SAN FRANCISCO
DEPARTMENT OF PUBLIC WORKS-BUREAU OF ENGINEERING
STAINLESS STEEL BOLTS, NUTS AND WASHERS

	APP'D		DATE:	2/23/2005				
BY: DEM		MANAGER, GES DIVISION	REVISION:	3				
CH'D: MBS	APP'D	CHIEF, BUREAU OF ENGINEERING	DETAIL:	HPL-49,102				



	DEP	ARTME	NT OF	PUBLIC	WORKS-	BURE	AU OF	' ENG	INEE	RING		
ETA	AIL OF	GATE	VALVE	COVER,	FRAME	AND	DUST	PAN	FOR	H.P.	HYDRA	NT
			APP'D					D/	TE:	2/	22/05	
:	DEM		APP		MANAGER, GES	DIVISION		RE	VISIO	V:	0	
'D:	MBS		APP'D		CHIEF, BUREAU O	f engineer	ING	D	ETAIL:	HP	L-5337	

CITY AND COUNTY OF SAN FRANCISCO

NO. DATE

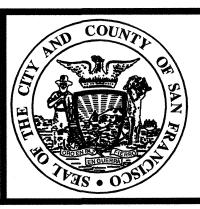
DESCRIPTION

TABLE OF REVISIONS

CHECK WITH TRACING TO SEE IF YOU HAVE LATEST REVISION

REFERENCE INFORMATION & FILE NO. OF SURVEYS

REFERENCE INFORMATION & FILE NO. OF SURVEYS



BUREAU OF ENGINEERING
DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF SAN FRANCISCO

DESIGNED: DATE:	APPROVED	SCALE:	CITY AND COUNTY OF SAN FRANCISCO	SPECIFICATION NO.
DRAWN: DATE:	SECTION MANAGER DATE:	NONE	AUXILIARY WATER SUPPLY SYSTEM	DRAWING NO. AWSS 5
	DEPUTY BUREAU MANAGER DATE:	SHEET OF SHEETS		FILE NO.
CHECKED: DATE:		5 OF 10	AWSS STANDARD DRAWING V	REV. NO.
MBS 11/10	BUREAU MANAGER DATE:	3 3. 13		0 O