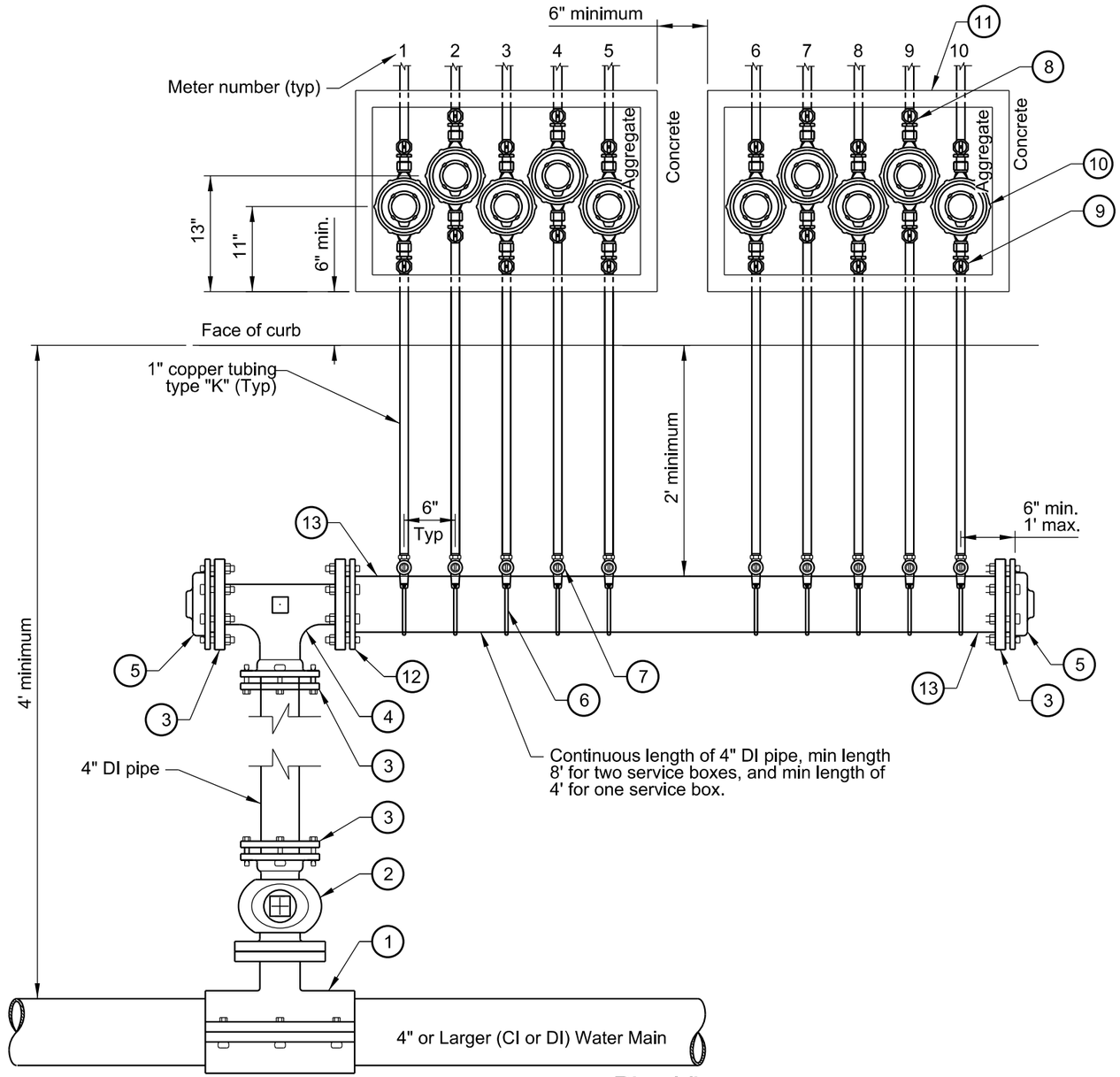

Plan View

NTS

Preferred Meter Locations

	Meter Location Number										
Total Number of Meters	Tee	1	2	3	4	5		6	7	8	9	10
3		X		X		X			Don't Install Second Service Box			
4		X	X	X		X			Don't Install Second Service Box			
5		X	X	X	X	X			Don't Install Second Service Box			
6		X	X	X	X	X			X			
7		X	X	X	X	X		X		X		
8		X	X	X	X	X		X		X		X
9		X	X	X	X	X		X	X	X		X
10		X	X	X	X	X		X	X	X	X	X

Materials List

Item No	Size	Qty	Description
1	varies x4"	1	Tapping sleeve (flange outlet)
2	4"	1	Tapping gate valve (FL x MJ)
3	4"	4	Gland, wedge action retainer (Megalug)
4	4"x4"x4"	1	Tee, DI MJ x MJ
5	4"x2"	1	Tapped plug (MJ) with 2" brass plug
6	4"x1"	10	Service saddle
7	1"	10	1" Corporation Stop
8	1"	10	Insulated (dielectric isolation) Angle Meter Stop
9	1"	10	Angle Meter Stop
10	1"	10	Meter - see standard drawing P-780
11	24"x36"	2	H-20 Rated Lid on #9 wood form, see Std Drawing P-980
12	4"	1	Dielectric isolation joint. See Std. Drawing P-760
13		2	32 lb. bare metal weight magnesium anode bonded to 4" DI pipe

Notes:

1. Install 24" x 36" frame and cover and # 9 wood form with non-skid surface in furnishing zone. Install 24" x 36" H-20 traffic rated frame and cover and # 9 wood form with non-skid surface together in driveways. Pour concrete around wood form to fill to surrounding backfill.
2. A 3/4" or 5/8" meter may be substituted for any of the 1" meters. If all meters in the box are 3/4" or 5/8", or a combination thereof; then 6 meters can be placed in each service box.
3. Service lines and 4" DI pipe shall maintain 1.5' of vertical separation when crossing other utilities. Vertical separation may be reduced to 6" with mitigation approved bt PWB. Provide a sleeve when the 4" DI crosses potential stray current sources, See Standard Drawing P-770
4. If less than five meters are installed in a box, note position of meters to be installed, and position of meters not used.
5. Install meters at a depth of 12".
6. Header may be installed on either side of tee.
7. One service box to be installed for 5 or less 1" services. One service box to be installed for 6 or less ¾" or ⅝" services.

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user.

PORTLAND WATER BUREAU
CITY OF PORTLAND, OREGON

Chief Engineer

Standard Drawing Title

1" Header Service Assembly - Option B Ten 1" Meters

Note:
All material and workmanship shall be in accordance with City of Portland Standard Construction Specifications.

Effective Date

Calc. Book No.

Baseline Report Date

Standard Drawing No.

P-787

Plot Date: 3/23/2023 11:25:21 AM Filename: C:\CADspace_Local\CAD_Projects\WSVC22_IC_1_Header Services\Header_Service_Detail P-788_P-787.dgn