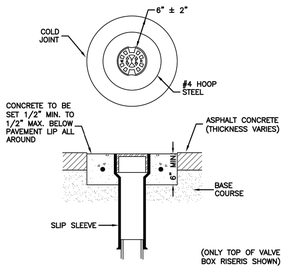
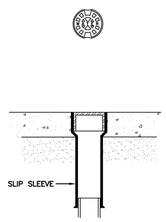


ASPHALT CONCRETE

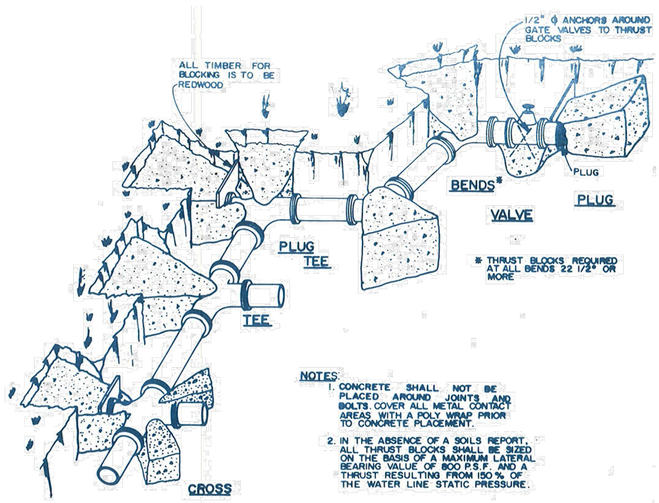


CONCRETE PAVEMENT

LANDSCAPED AREA

4 WATER VALVE BOX

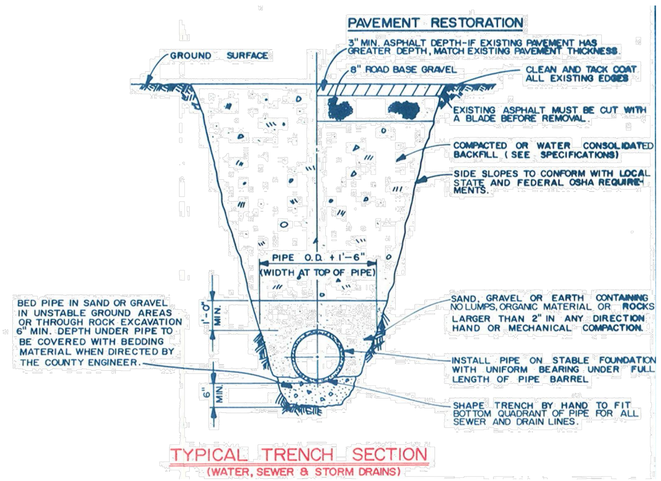
SCALE: N.T.S. APWA PLAN NO. 574



THRUST BLOCKING

5 THRUST BLOCKS

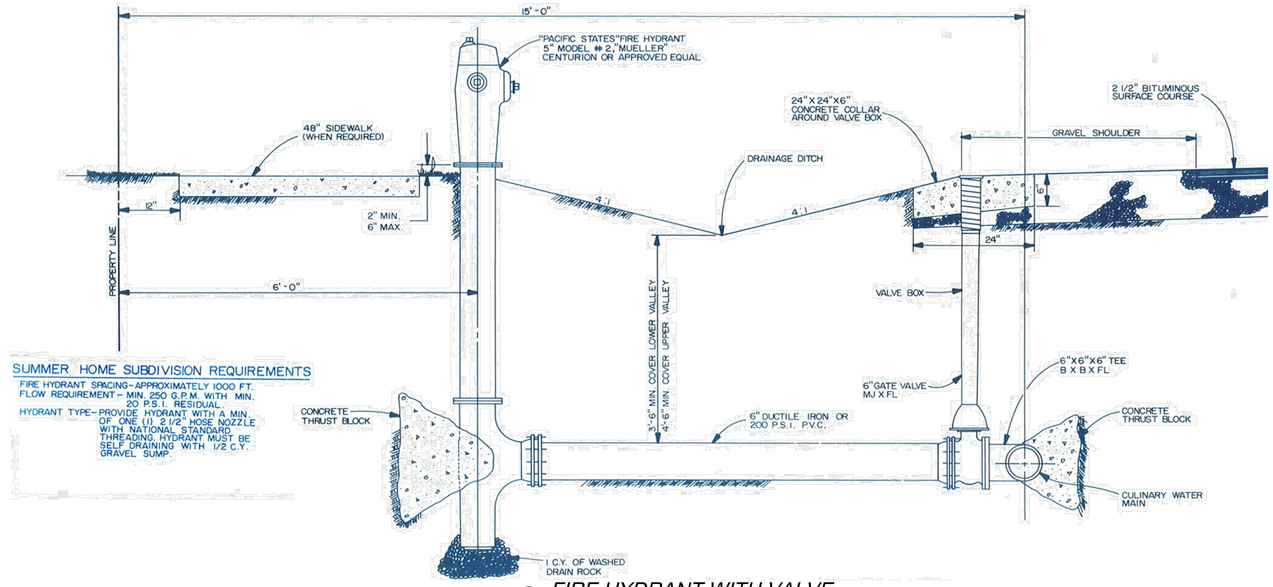
SCALE: N.T.S. APWA PLAN NO. 561



TYPICAL TRENCH SECTION
(WATER, SEWER & STORM DRAINS)

6 TRENCH SECTION

SCALE: N.T.S. APWA PLAN NO. 561

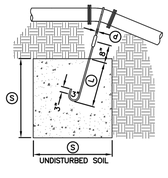


SUMMER HOME SUBDIVISION REQUIREMENTS

FIRE HYDRANT SPACING-APPROXIMATELY 1000 FT.
FLOW REQUIREMENT- MIN. 250 G.P.M. WITH MIN. 20 P.S.I. RESIDUAL.
HYDRANT TYPE-PROVIDE HYDRANT WITH A MIN. OF ONE (1) 2 1/2" HOSE NOZZLE WITH NATIONAL STANDARD THREADING. HYDRANT MUST BE SELF DRAINING WITH 1/2 C.Y. GRAVEL SUMP.

1 FIRE HYDRANT WITH VALVE

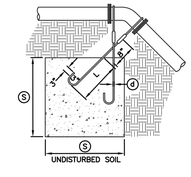
SCALE: N.T.S.



TYPE A RESTRAINT
FOR 11 1/4° – 22 1/2° VERTICAL BENDS

TABLE OF DIMENSIONS

PIPE SIZE NOMINAL DIAMETER – INCH	VERTICAL BEND IN DEGREES	CONCRETE BLOCKING IN CUBIC FEET	Ⓢ SIDE OF CUBE – FEET	ⓓ DIAMETER OF SHANK OR REBAR RODS – INCH	Ⓛ ROD DEPTH OF CONCRETE – FEET
4"	11 1/4°	8	2.0	5/8"	1.5
	22 1/2°	15.6	2.5	5/8"	2.0
6"	11 1/4°	15.6	2.5	5/8"	2.0
	22 1/2°	34.3	3.25	5/8"	2.0
8"	11 1/4°	27	3.0	5/8"	2.0
	22 1/2°	64	4.0	5/8"	2.0
12"	11 1/4°	64	4.0	5/8"	2.0
	22 1/2°	125	5.0	3/4"	3.0
16"	11 1/4°	107	4.25	7/8"	3.0
	22 1/2°	216	6.0	7/8"	3.0
20"	11 1/4°	138	5.17	1"	3.5
	22 1/2°	334	6.94	1"	4.0
24"	11 1/4°	240	6.22	1"	4.0
	22 1/2°	476	7.81	1"	4.0
30"	11 1/4°	369	7.17	1"	4.0
	22 1/2°	733	9.02	1"	4.0



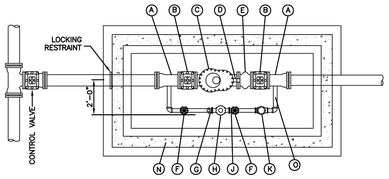
TYPE B RESTRAINT
FOR 45° VERTICAL BENDS

TABLE OF DIMENSIONS

PIPE SIZE NOMINAL DIAMETER – INCH	VERTICAL BEND IN DEGREES	CONCRETE BLOCKING IN CUBIC FEET	Ⓢ SIDE OF CUBE – FEET	ⓓ DIAMETER OF SHANK OR REBAR RODS – INCH	Ⓛ ROD DEPTH OF CONCRETE – FEET
4"	45°	1	3.0	5/8"	2.0
				5/8"	
6"		2.37	4.0	5/8"	2.5
				5/8"	
8"		3.97	4.75	5/8"	3.0
				5/8"	
12"		9.04	6.25	5/8"	4.0
				3/4"	
16"		17.24	7.75	3/4"	4.0
				3/4"	
20"		26.52	92.17	3/4"	4.0
				3/4"	
24"		37.82	10.07	3/4"	4.0
				3/4"	
30"		58.26	11.63	3/4"	4.0
				3/4"	

3 TIE DOWN THRUST RESTRAINTS

SCALE: N.T.S. APWA PLAN NO. 562



LEGEND			
No.	*	ITEM	DESCRIPTION
Ⓐ		3" OR 4" FLANGE x M.J. ADAPTER	
Ⓑ		3" OR 4" GATE VALVE WITH 2"x2" OPERATING NUT	
Ⓒ		3" OR 4" COMPOUND METER	
Ⓓ		2" TEST ASSEMBLY	
Ⓔ		3" OR 4" CHECK VALVE	
Ⓕ		2" GATE VALVE	
Ⓖ		2" METER FLANGE	
Ⓗ		2" DISPLACEMENT METER	
Ⓙ		2" MALE METER FLANGE	
Ⓚ		2" CHECK VALVE	
Ⓛ		27" FRAME AND COVER	PLAN 502
Ⓜ		TOP SECTION OF VALVE BOX WITH LID	PLAN 574
Ⓝ		CONCRETE BOX	PLAN 505
Ⓟ		COPPER PIPING	

* FURNISHED BY AGENCY

2 WATER VALVE

SCALE: N.T.S. APWA PLAN NO. 523

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WEST WEBER ELEMENTARY

WEBER SCHOOL DISTRICT

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NO.	DATE	DESCRIPTION

SHEET NAME

WATER DETAILS

CONSTRUCTION DRAWINGS

SHEET NUMBER

CE-607

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