

cmc
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MAIN LAID BY: City

DATE STARTED: 4/3/69

JOB: 468

AFE:

ACCT: 343 - 348 - R&R

INSPECTED BY: C. Schmidt

DATE FINISHED: 5/12/69

INSTALL 20" MAIN IN COLO AVE. FROM MCKINLEY PL TO CONEJOS

City Water Crews installed 20" water main in Colorado Ave, they began just west of McKinley Place and finished just East of Conejos St.

The crews tied the new 20" pipe to the existing 16" pipe. Then they laid the 20" east to a 20" line valve #8474 and east from the valve to a 20" x 6" Tee at Colorado Ave and McKinley Place. Out of the tee they set a 6" line valve #8475, which faces north. From the valve the crew laid about 20 feet of 6" CIP going north in McKinley Place. Then they tied the 6" to the existing 4" pipe. On the northwest corner of Colo Ave and McKinley Place they replaced a 4" fire hydrant with a 6" fire hydrant #105 C. From McKinley Place the crews laid the 20" pipe east in Colorado Ave to Chestnut. Here the crew installed a 20"x16" cross, two 20" valves #8476 and #8478, one 16" valve #8479 closing north on Chestnut; one 16"x8" reducer facing south on Chestnut and one 8" valve #8480 facing south on Chestnut. From this valve they laid 8" pipe to an 8"x45° bend; then 8" pipe to another 8"x45° bend; they then connected to existing 8" pipe going south on Chestnut. The crew also installed a fire hydrant #50D on the southeast corner of Colo Ave and Chestnut. From the 16" valve closing north on Chestnut the crew laid 16" pipe to the first alley north of Colorado Ave (on the east side of Chestnut). Here they installed a 16"x6" tee and a 6" valve #8481 to connect with the existing 6" going east in the alley. From the Tee they laid about 20' of 16" pipe north in Chestnut, and connected to the existing 16" pipe. From Colo Ave and Chestnut the crew laid 20" pipe east in Colorado Ave to Walnut St. Here they set a 20"x8" Tee and connected new 20" line to existing 8" line going south in Walnut St. They set a new 8" line valve #8482 closing south out of the Tee. From Walnut Street they laid 20" east in Colorado Ave and crossed an 8" non-potable water line just west of Spruce St. The crew lowered the 8" non-potable water line, at Colo Ave and Spruce they installed a 20" valve #8484. At Colorado Ave and Spruce they began work to cross the Colorado Ave bridge over Monument Creek. The Water Division used pre-fabricated steel pipe and hangers to cross the bridge. The crew hung the pipe on the south side of the bridge just under the foot walk. At the Conejos Street ramp they installed a vertical bend to reach the ground. Then they laid pipe through a steel sleeve under Conejos St. At east side of Conejos St they connected the new 20" line to the existing 6" line going south. They installed a 20"x6" Tee for reconnection. From the 20"x6" tee they laid the new 20" pipe about 10 feet east and installed a 20" butterfly line valve #8483. From the valve they laid pipe east to the existing 16" pipe and tied into it with a 20"x 16" reducer

MATERIALS USED:

- 1153' 20" Cast Iron Pipe
- 662' 20" Ductile Iron Pipe
- 320' 16" Cast Iron Pipe
- 20' 16" Ductile Iron Pipe
- 8' 8" Cast Iron Pipe
- 60' 6" Cast Iron Pipe
- 42' 2" Galvanized Pipe
- 63' 1½" Galvanized Pipe

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MATERIALS USED: (continued)

4	20" M.J. Butterfly valves
1	20" M.J. Gate Valve
1	16" Butterfly Valve
2	8" Gate Valves M.J.
2	6" M.J. Valves Gate Type
2	60" Valve Box Bottoms
5	48" Valve Box Bottoms
1	36" Valve Box Bottom
7	26" Valve Box Tops w/lids
1	20"x8" Tee M.J.
1	16"x6" Tee, M.J.
2	20"x6" Tees M.J.
1	16" A.B.x16" C.P. Style 62 Dresser coupling
1	20" Smith and Blair Style 431 Coupling
1	20" CIP style 38 Dresser coupling
1	20" O.D. Style 38 Dresser Coupling
1	20" CIP Style 31
1	16" CIP Style 38
1	16"x8" Reducer
2	8"x22½° bend
1	8"x18" Offset
2	6" Dresser Style 38 Coupling
1	6"x18" Offset
2	6"x14" Anchor Pipes
1	8"x24" Anchor Pipe
1	8"x3' Anchor Pipe
2	8"x45° bends
1	6"x45° bends
1	6"x4" Reducer
4	20"x30" Insulating Skids
2	20"x30" Cradles
36	Stepping Stones
1	4" Smith and Blair Style 441 Coupling
58	Bags of cement
40'	3/4" Rebar
200	Paper Sacks
50	Burlap Bags
2 bags	Dri-mix concrete
4	3/4"x4' Plated Rods
2	3/4" Tie Bolts
8'	3/4" All Thread
8	3/4" Hex Nuts
1	2" Style 65 Coupling
8 gals	Aluminum paint
10	gallons mineral spirits
197 yds	Concrete
12	2"x4"x12' Fir Boards
12	5/8"x20" P.A. Bolts
2	20" O.D.x21.6 O.D. (cast iron to steel) Dresser style 62 couplings
7	20" O.D. Style 38 Dresser couplings
3	20" O.D. Style 63 type 1 Dresser expansion joints
14	1½"x35" harness stud bolts/4 hex nuts each for style 38 Dresser couplings
6	1½"x48" harness stud bolts with 4 hex nuts each (for expansion joints)
13	Steel hanger frames
52	3/4" x 1½" machine bolts w/hex nuts

26 3/4"x2" machine bolts w/hex nuts
 4 Two Piece 1/4" thick x 2" wide shear (anchor) rings
 295' 20" O.D. Steel Pipe
 2 20" A.B.x16" C.P. Style 62 dresser couplings
 50' 30" diameter steel pipe casing

LOCATION OF VALVES AND FITTINGS:

#8474 20" Pratt Butterfly valve, open right
 L 38 B 25' N S L of W Colo Ave
 19' W W L of McKinley Pl, closes E and W

20"x16" Reducer
 25' N S L of Colo Ave
 37' W W L of McKinley

20"x6" Tee
 24' N S L of Colo Ave'
 34' E W L of McKinley Place

#8475 6" Valve Gate - Iowa - open right
 L 38 B 27' N S L of Colo Ave
 34' E W L of McKinley

6" Anchor Tee
 33' E W L of McKinley
 4' N N L of Colo Ave.

6"x18" Offset
 33' E W L of McKinley Pl
 18' N N L of Colo Ave.

6"x4" Reducer
 33' E W L of McKinley Pl
 20" N N L of Colo Ave

6" Dresser Style 153 coupling
 33' E W L of McKinley Pl
 22' N N L of Colo Ave

20"x16" Cross
 34' N S L of Colo Ave
 33' E W L of Chestnut

#8476 20" M.H. Gate Valve -open right - closes E and W on Colo Ave
 L 38 B 38 1/2' N S L of Colo Ave
 6" E W L of Chestnut

#8477 By-pass
 32' N S L of Colo Ave
 6' E W L of Chestnut

#8478 20" Pratt, butterfly valve = closes E and W on Colo Ave
 L 38 B 32' N S L of Colo Ave
 E P L of Chestnut

#8479 16" Pratt Butterfly Valve - Closes North on Chestnut St.
L 38 B 39' N S L of Colo Ave
32' E W L of Chestnut St.

16"x6" Tee
24' W E L of Chestnut
11' S N L of first alley north of Colo Ave on E side of Chestnut

#8481 6" Iowa Gate Valve - open right - closes E on alley north of Colo Ave
on Chestnut.
L 38 B 22' W E L of Chestnut
11' S N L of above alley

#8480 8" Iowa, Gate Valve - open right - closes south on Chestnut
L 38 B 33' E W L of Chestnut
27' N S L of Colo Ave

8"x45° Bend
22' W E L of Chestnut
20' N S L of Colo Ave

8"x45° Bend
14' W E L of Chestnut
9' N S L of Colo Ave

20"x8" Tee
30' N S L of Colo Ave
30' E W L of Walnut St.

#8482 8" Iowa Gate Valve - open right - closes south on Walnut
L 38 B 36" N S L of Colo Ave!
30' E W L of Walnut St.

#8484 20" Pratt Butterfly valve - closes 20" E and W on Colo Ave. Open right
L 38 B 58' W W end of Steel railing on Bridge
10' N S curb of Colo Ave
on W P L of Spruce

20"x6" Tee
at Colo Ave and Conejos

#8483 20" Pratt Butterfly valve - Colo Ave and Conejos - closes E & W on Colo
L 38 B 7' S S wall of Colo Ave Bridge
13' E E wall of ramp of Conejos

20"x16" Reducer - Colo and Conejos
124' E E L of Conejos
6' S S L of Colo Ave