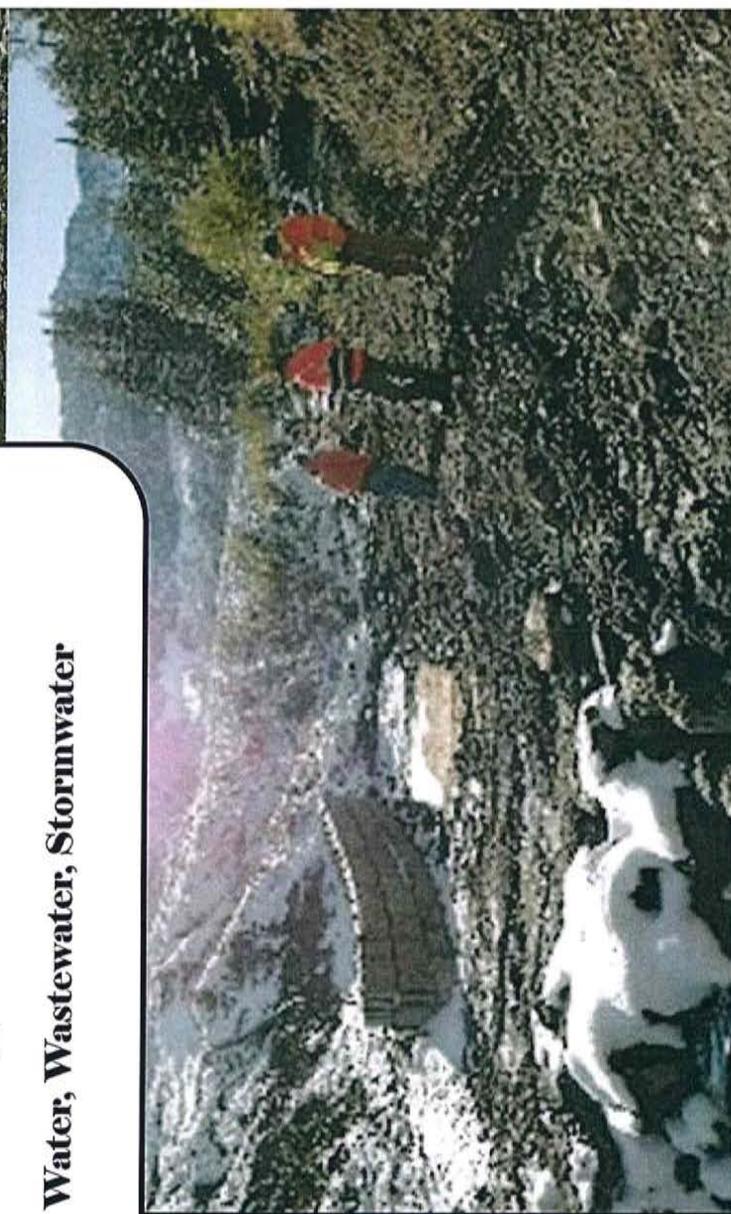


Baker City Public Works
2020
Capital Plan

Water, Wastewater, Stormwater

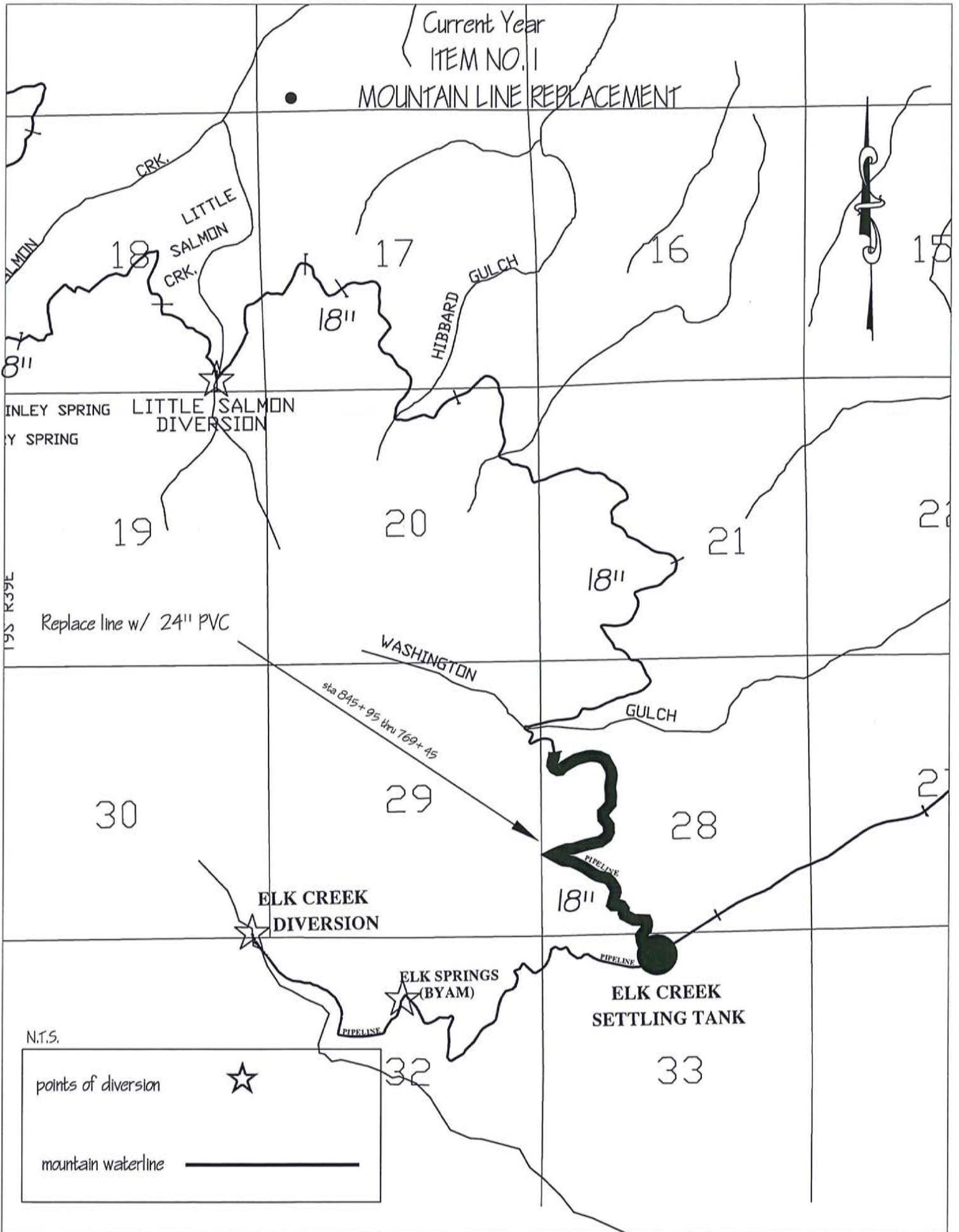


Current Year Update

BAKER CITY PUBLIC WORKS
 3 YEAR WATER CAPITAL PLAN
 ESTIMATE OF COST
 2019-2020 FISCAL YEAR - 2nd Half
 JANUARY 1, 2020 - JUNE 30, 2020

ITEM #	LOCATION	QUANTITY	UNIT	UNIT COST	ESTIMATED TOTAL COST	SIZE TYPE	OBJECTIVE
1	Mountain Line Replacement Sta. 845+95 (Elk Creek Settling Tank) to Sta. 769+45	7650	Lineal Feet	\$110.00	\$ 841,500.00	24" PVC	Purchase, transport and install, 24" C-900 PVC Pipe and fittings.
2	Replace Hydrants	5	Each	\$6,000.00	\$ 30,000.00	Varies	Replace hydrants as needed.
3	Water Line Extensions	Varies	Lineal Feet	Varies	\$ 10,000.00	Varies	Misc. water line extensions.
4	Groundwater Source Development	1	Lump Sum	\$225,000.00	\$ 225,000.00	N/A	Final design of new municipal well / well house and contract documents.
5	Court St. - (4th St. - 7th St.)	1075	Lineal Feet	\$130.00	\$ 139,750.00	8" DI	Install 8" DI pipe to improve distribution grid and fire flows.
SUBTOTAL					\$ 1,246,250.00		
ENGINEERING					\$ 124,625.00		
ADMINISTRATIVE CHARGE					\$ 109,670.00		
TOTAL ESTIMATED COST					\$ 1,480,545.00		

Items noted in blue lettering are projects required by state or federal regulatory agencies.



Current Year
ITEM NO. 1

MOUNTAIN LINE REPLACEMENT

LITTLE SALMON CRK.

HIBBARD GULCH

LITTLE SALMON DIVERSION
INLEY SPRING
Y SPRING

WASHINGTON GULCH

GULCH

ELK CREEK DIVERSION

ELK SPRINGS (BYAM)

ELK CREEK SETTLING TANK

Replace line w/ 24" PVC

sta 845+95 thru 769+45

N.T.S.

points of diversion



mountain waterline

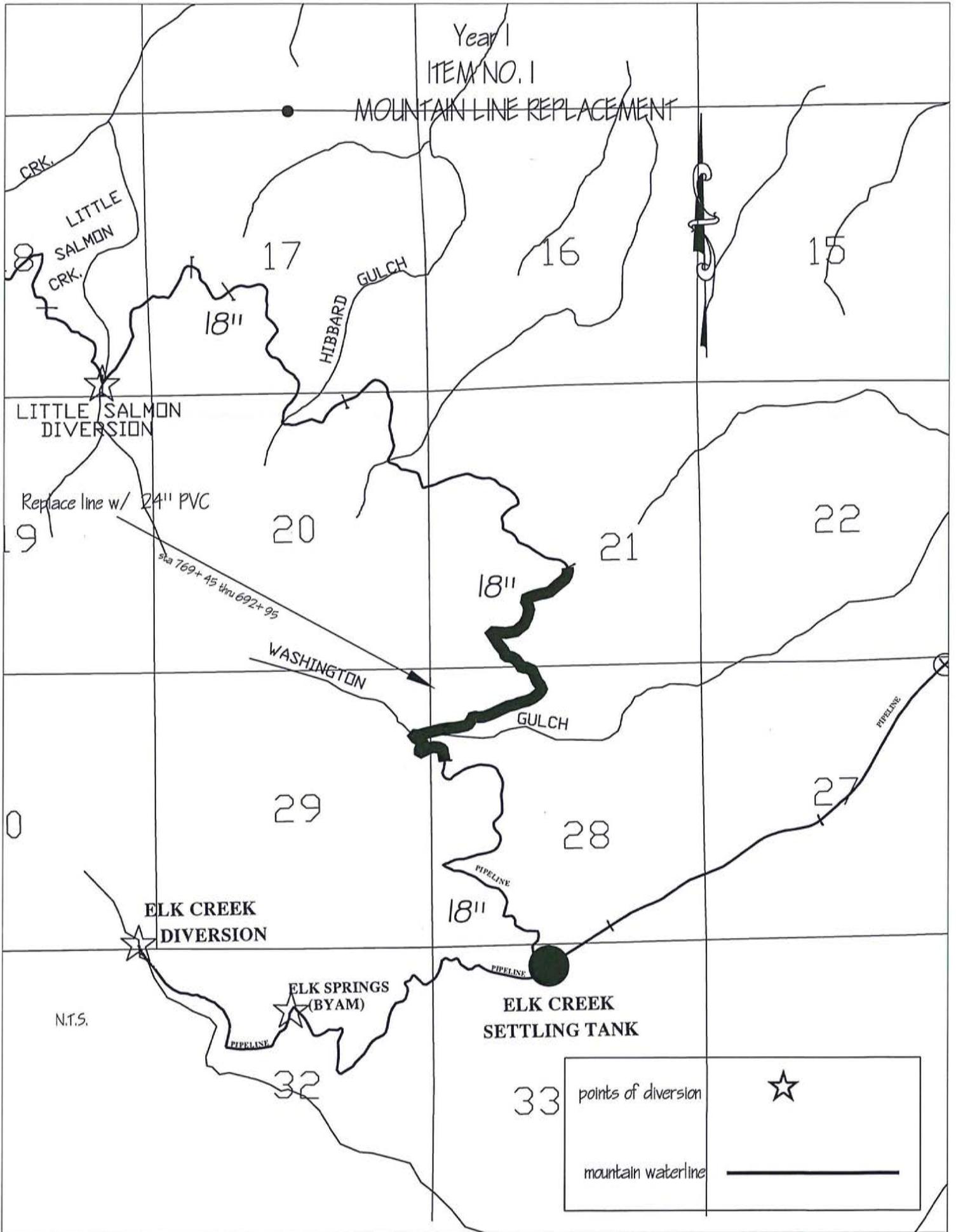


Year 1

**BAKER CITY PUBLIC WORKS
3 YEAR WATER CAPITAL PLAN
ESTIMATE OF COST
2020-2021 FISCAL YEAR
JULY 1, 2020 - JUNE 30, 2021**

ITEM #	LOCATION	QUANTITY	UNIT	UNIT COST	ESTIMATED TOTAL COST	SIZE TYPE	OBJECTIVE
1	Mountain Line Replacement Sta. 769+45 to Sta. 692+95	7650	Lineal Feet	\$110.00	\$ 841,500.00	24" PVC	Purchase, transport and install, 24" C-900 PVC Pipe and fittings.
2	Replace Hydrants	5	Each	\$6,000.00	\$ 30,000.00	Varies	Replace hydrants as needed.
3	Water Line Extensions	Varies	Lineal Feet	Varies	\$ 10,000.00	Varies	Misc. water line extensions.
4	Groundwater Source Development	1	Lump Sum	\$750,000.00	\$ 750,000.00	N/A	Drill new municipal well and consultant services during construction.
5	Park Springs Ave. - (Park Springs - Well St.)	250	Lineal Feet	\$130.00	\$ 32,500.00	8" DI.	Install 8" DI pipe to improve distribution grid and fire flows.
6	Washington Ave. (Clark St. - Birch St.)	600	Lineal Feet	\$140.00	\$ 84,000.00	8"-12" DI.	Install 8" - 12" DI pipe to replace aged Cast Iron pipe in intersections .
7	Marble Springs Transmission Line Relocation	800	Lineal Feet	\$200.00	\$ 160,000.00	12" DI.	Relocate transmission line for improved road access.
SUBTOTAL					\$ 1,908,000.00		
ENGINEERING					\$ 190,800.00		
ADMINISTRATIVE CHARGE					\$ 167,904.00		
TOTAL ESTIMATED COST					\$ 2,266,704.00		

Items noted in blue lettering are projects required by state or federal regulatory agencies.



YEAR 1
ITEM NO. 5
PARK SPRINGS AVE.
PROPOSED 8" DI
MAINLINE



PROPOSED 8" DI
MAINLINE

SAM-□-SWIM
CENTER
580

4' INSULATED
PIPE

SKATE
PARK

ST.

SAM□
SPRING

BAKER

615

555

STAND PIPE FOR
ICE RINK

ICE
RINK

ST.

8" DI

DEVELOPER INSTALLED

CHURCH - ST.

505

WELL

6" DI.

650

630

560

540

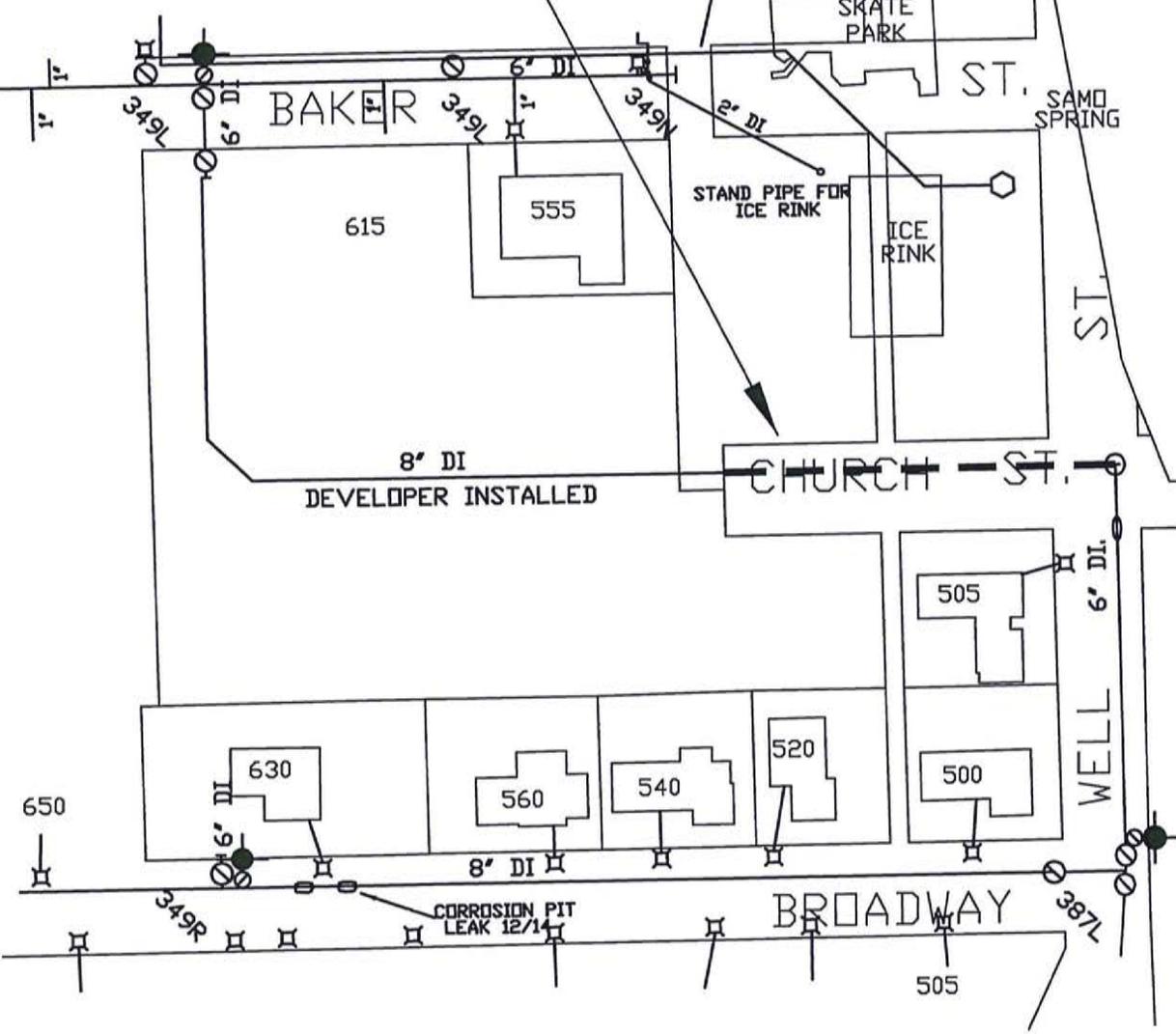
520

500

CORROSION PIT
LEAK 12/1

BROADWAY

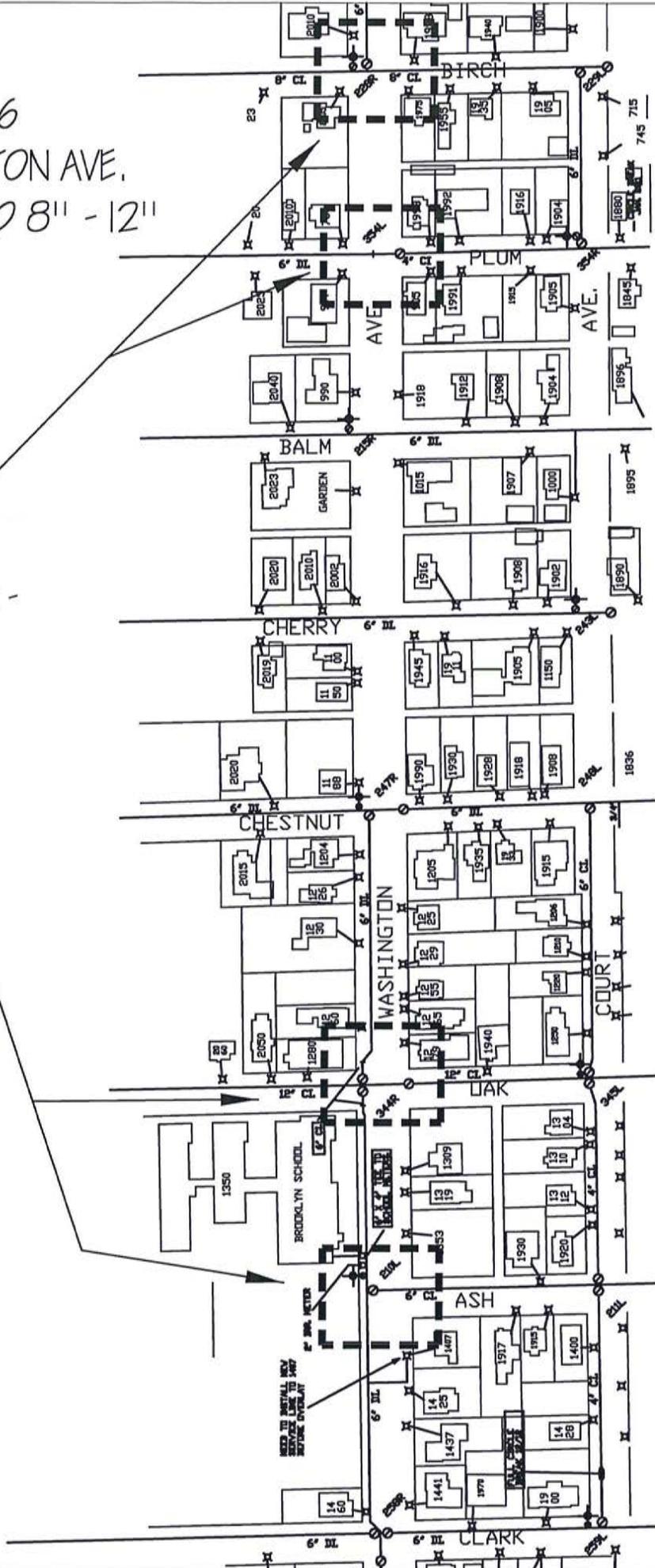
505



YEAR 1
ITEM NO. 6
WASHINGTON AVE.
PROPOSED 8" - 12"
MAINLINE



PROPOSED 8" DI -
12" DI MAINLINE



Year 1
ITEM NO. 7
MARBLE SPRINGS REPLACEMENT

SPRINGS

ION

CREEK

MARBLE SPRINGS 16"

18"

MARBLE CREEK SETTLING TANK

Replace - Relocate line
w/ 12" DI.

MARBLE

N.T.S.

points of diversion	★
mountain waterline	—————



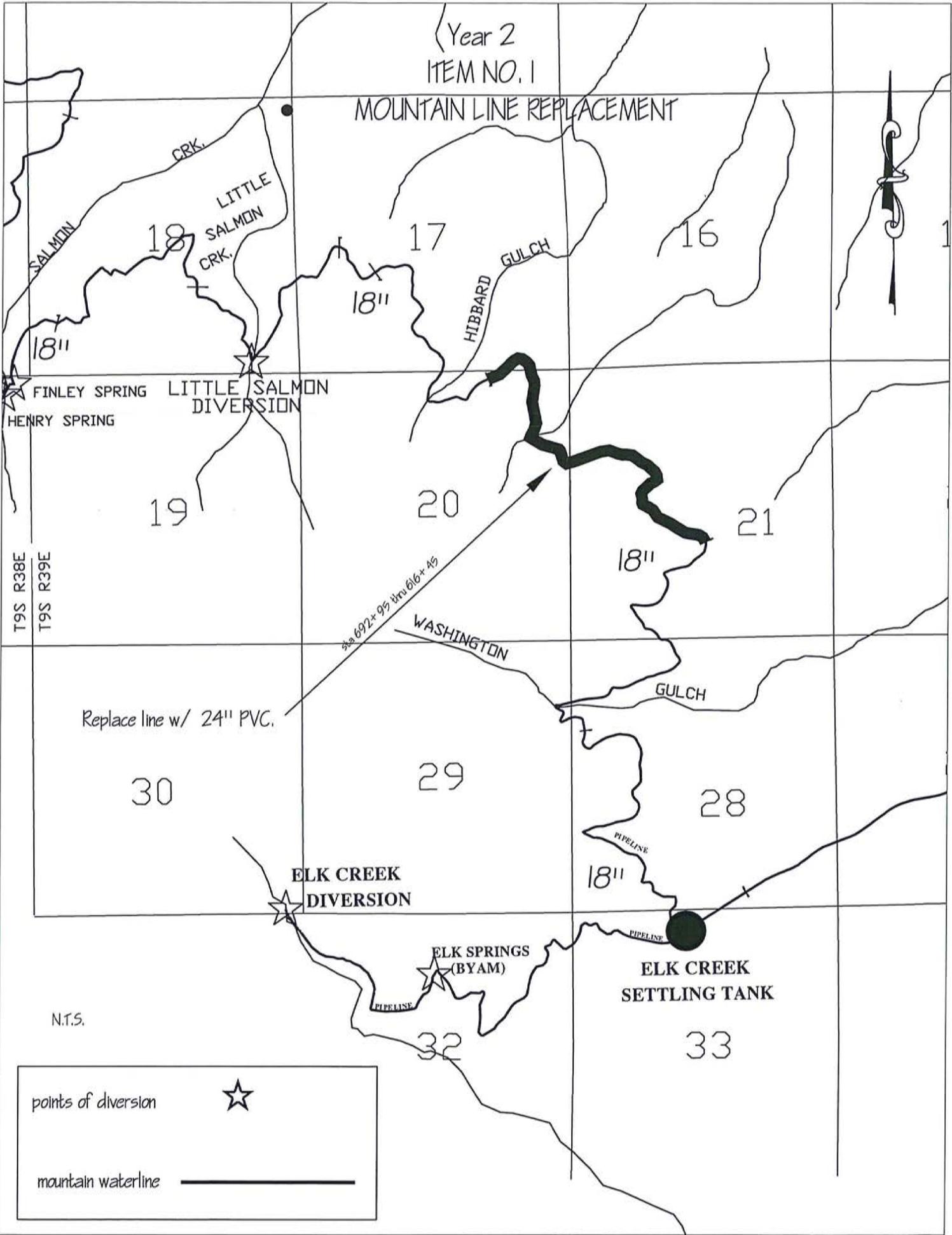
CAMPER

Year 2

BAKER CITY PUBLIC WORKS
 3 YEAR WATER CAPITAL PLAN
 ESTIMATE OF COST
 2021-2022 FISCAL YEAR
 JULY 1, 2021 - JUNE 30, 2022

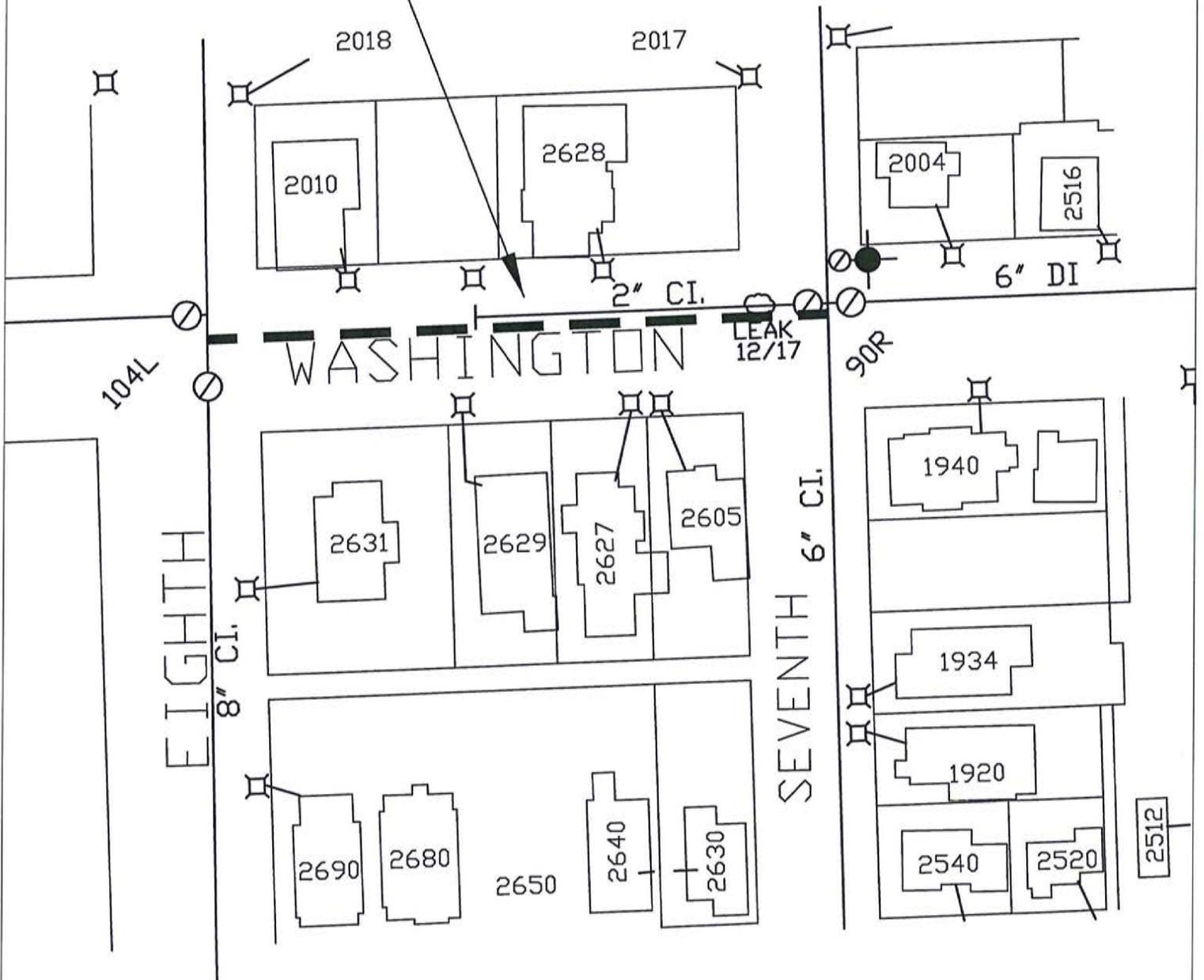
ITEM #	LOCATION	QUANTITY	UNIT	UNIT COST	ESTIMATED TOTAL COST	SIZE TYPE	OBJECTIVE
1	Mountain Line Replacement Sta. 692+95 to Sta. 616+45	7650	Lineal Feet	\$110.00	\$ 841,500.00	24" PVC	Purchase, transport and install, 24" C-900 PVC Pipe and fittings.
2	Replace Hydrants	5	Each	\$6,000.00	\$ 30,000.00	Varies	Replace hydrants as needed.
3	Water Line Extensions	Varies	Lineal Feet	Varies	\$ 10,000.00	Varies	Misc. water line extensions.
4	Groundwater Source Development	1	Lump Sum	\$1,000,000.00	\$ 1,000,000.00	N/A	Construct well house, pump station, new piping, chlorination system, backup power, telemetry, start up and commissioning. Includes consulting services during construction and start up.
5	Goodrich Reservoir Improvements	1	Lump Sum	\$150,000.00	\$ 150,000.00	N/A	Improve drainage and slope stabilization.
6	Washington Ave. (7th St. - 8th St.)	380	Lineal Feet	\$140.00	\$ 53,200.00	8" DI	Install 8" DI pipe to improve distribution grid and fire flows .
SUBTOTAL					\$ 2,084,700.00		
ENGINEERING					\$ 208,470.00		
ADMINISTRATIVE CHARGE					\$ 183,453.60		
TOTAL ESTIMATED COST					\$ 2,476,623.60		

Items noted in blue lettering are projects required by state or federal regulatory agencies.



YEAR 2
ITEM NO. 6
WASHINGTON AVE.
PROPOSED 8" DI
MAINLINE

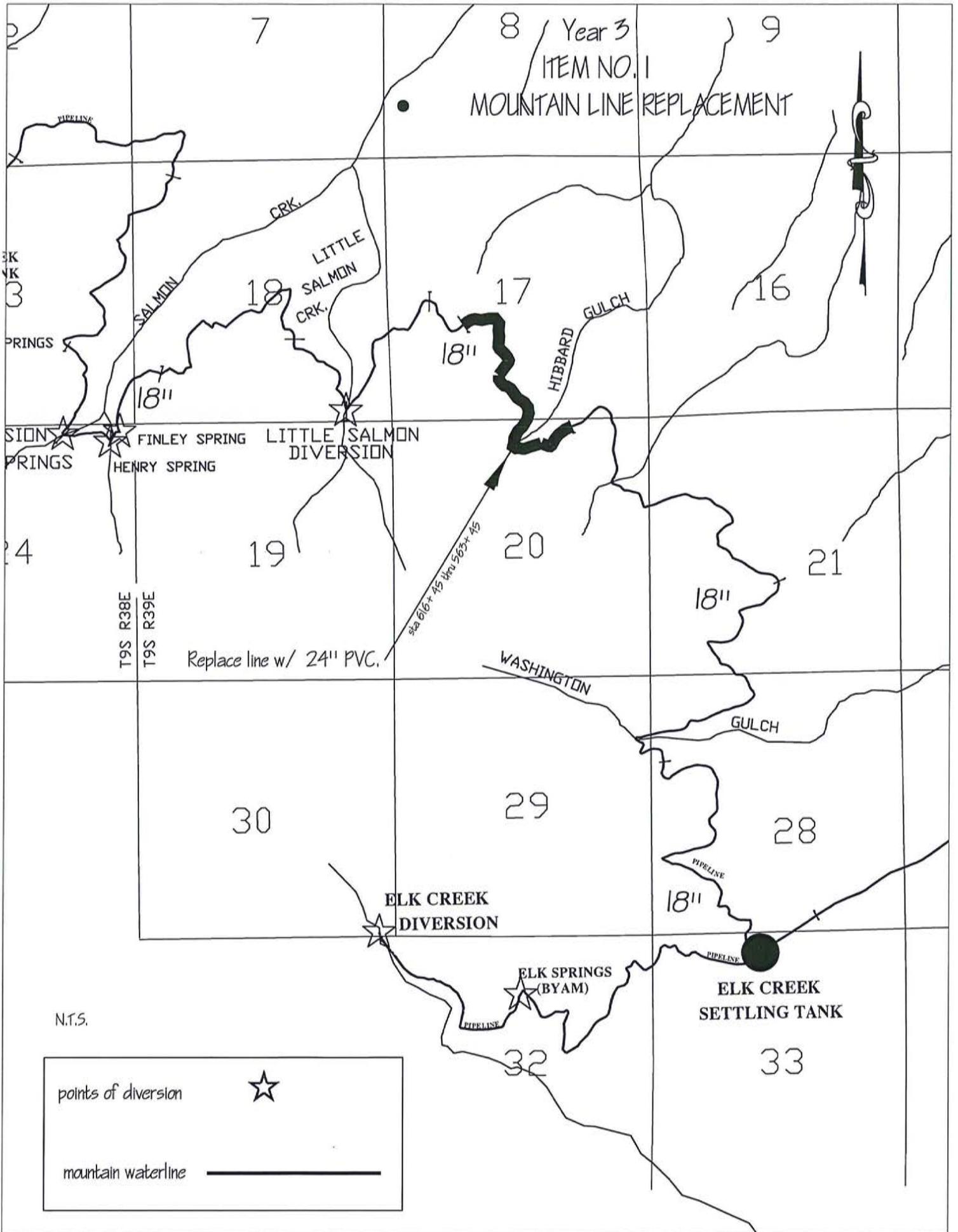
PROPOSED 8" DI
MAINLINE



**BAKER CITY PUBLIC WORKS
3 YEAR WATER CAPITAL PLAN
ESTIMATE OF COST
2022-2023 FISCAL YEAR
JULY 1, 2022 - JUNE 30, 2023**

ITEM #	LOCATION	QUANTITY	UNIT	UNIT COST	ESTIMATED TOTAL COST	SIZE TYPE	OBJECTIVE
1	Mountain Line Replacement Sta. 616+45 to Sta. 563+45	5300	Lineal Feet	\$120.00	\$ 636,000.00	24" PVC	Purchase, transport and install, 24" C-900 PVC Pipe and fittings.
2	Replace Hydrants	5	Each	\$6,000.00	\$ 30,000.00	Varies	Replace hydrants as needed.
3	Water Line Extensions	Varies	Lineal Feet	Varies	\$ 10,000.00	Varies	Misc. water line extensions.
4	Reservoir Well Rehabilitation	1	Lump Sum	\$110,000.00	\$ 110,000.00	N/A	Remove encrustation on well liner.
5	Diversion Structure Improvements (Little Salmon, Camper, Henry and Finley Springs)	1	Lump Sum	\$30,000.00	\$ 30,000.00	N/A	Improve diversions and line basins with concrete to address turbidity issues.
6	10th Street (G St. to H St.)	360	Lineal Feet	\$140.00	\$ 50,400.00	8" DI	Install 8" DI pipe to replace 4" Cl. and connect to 8 " line in G Street for improved distribution grid and fire flows.
7	Oregon Street	410	Lineal Feet	\$140.00	\$ 57,400.00	8" DI	Install 8" DI pipe from Oregon St. to Foothill Dr. to improve distribution grid and fire flows.
8	Place Street (13th St. to 17th St.)	1190	Lineal Feet	\$90.00	\$ 107,100.00	8" DI	Install 8" DI pipe to improve distribution grid, fire flows and eliminate spaghetti service lines.
9	Chlorine System Upgrade	1	Lump Sum	\$150,000.00	\$ 150,000.00	N/A	Upgrade disinfection system.
SUBTOTAL					\$ 1,180,900.00		
ENGINEERING					\$ 118,090.00		
ADMINISTRATIVE CHARGE					\$ 103,919.20		
TOTAL ESTIMATED COST					\$ 1,402,909.20		

Items noted in blue lettering are projects required by state or federal regulatory agencies.



Year 3
ITEM NO. 1
MOUNTAIN LINE REPLACEMENT

7

8

9

18

17

16

19

20

21

30

29

28

32

33

T9S R38E
T9S R39E

Replace line w/ 24" PVC.

sta 616+45 thru 763+45

N.T.S.

points of diversion	☆
mountain waterline	—————

YEAR 3
ITEM NO. 6
10TH STREET
PROPOSED 8" DI
MAINLINE



PROPOSED 8" DI
MAINLINE

2970

2900

6" CI.

18' 6"

8" DI

139L

"H" ST.

125R

2935
F.O.E.

3295

2" COPPER

3285

4" DI

6" DI

ELEVENTH

4" CI

TENTH

3205

1"

129'

8" DI

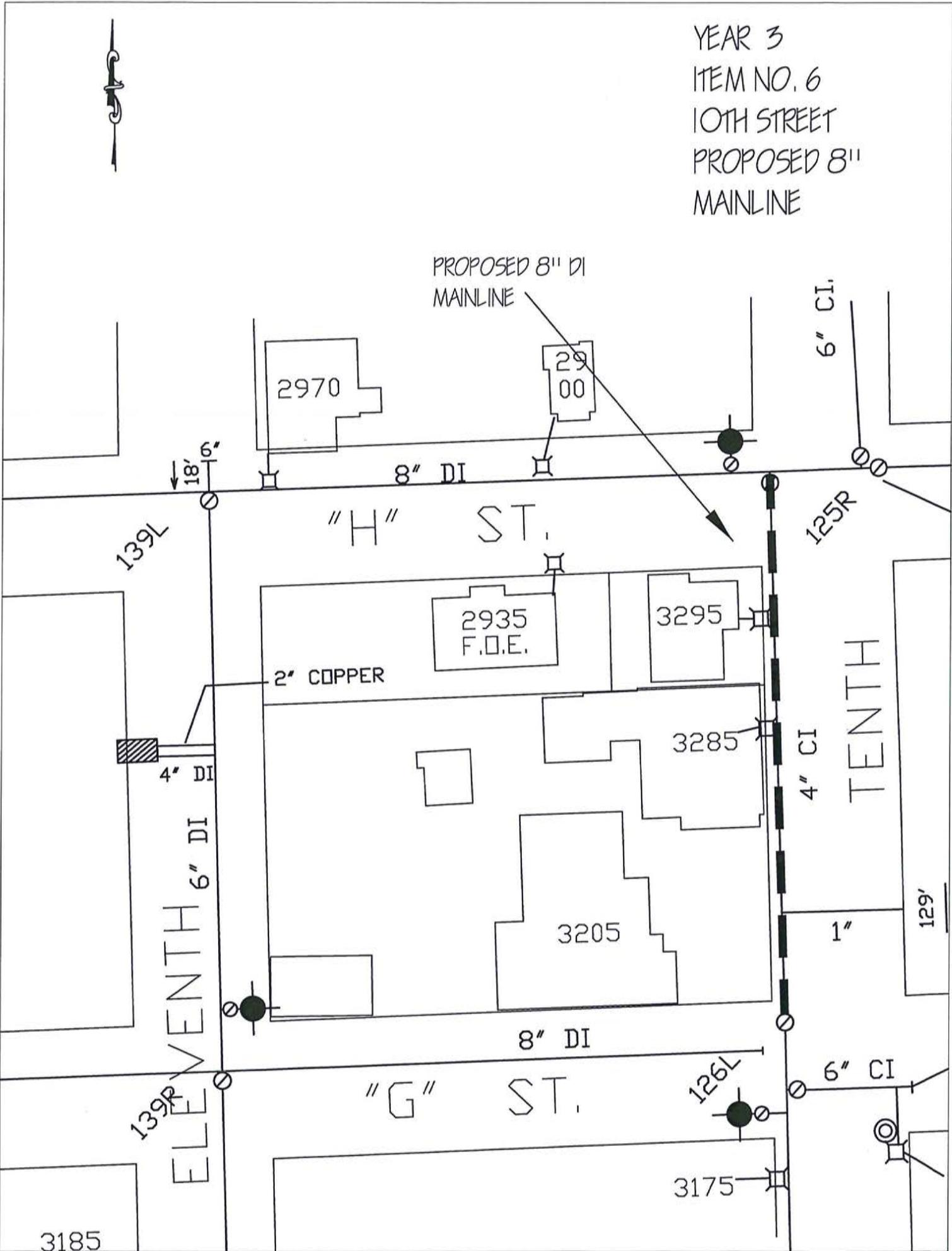
"G" ST.

126L

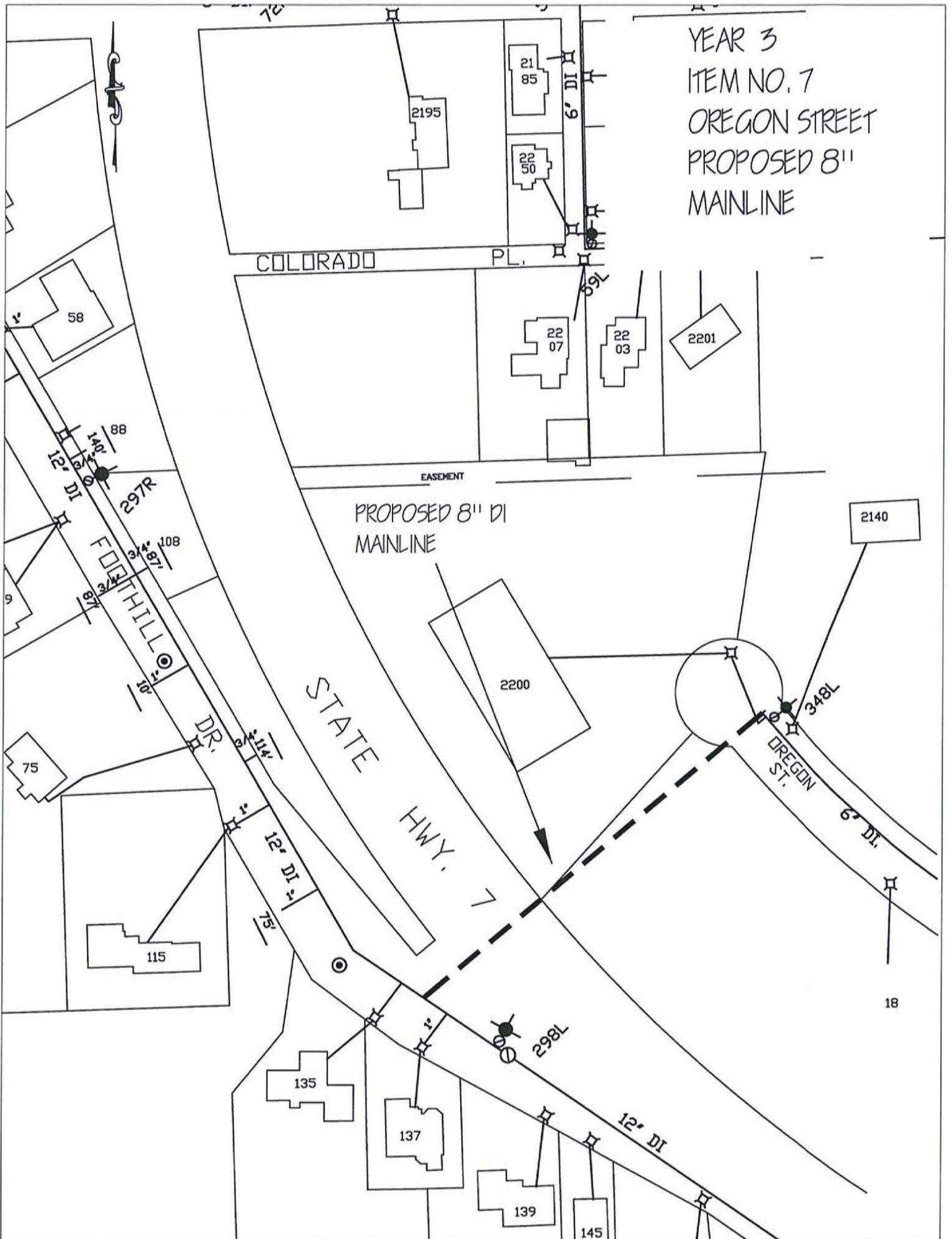
6" CI

3175

3185



YEAR 3
ITEM NO. 7
OREGON STREET
PROPOSED 8" MAINLINE



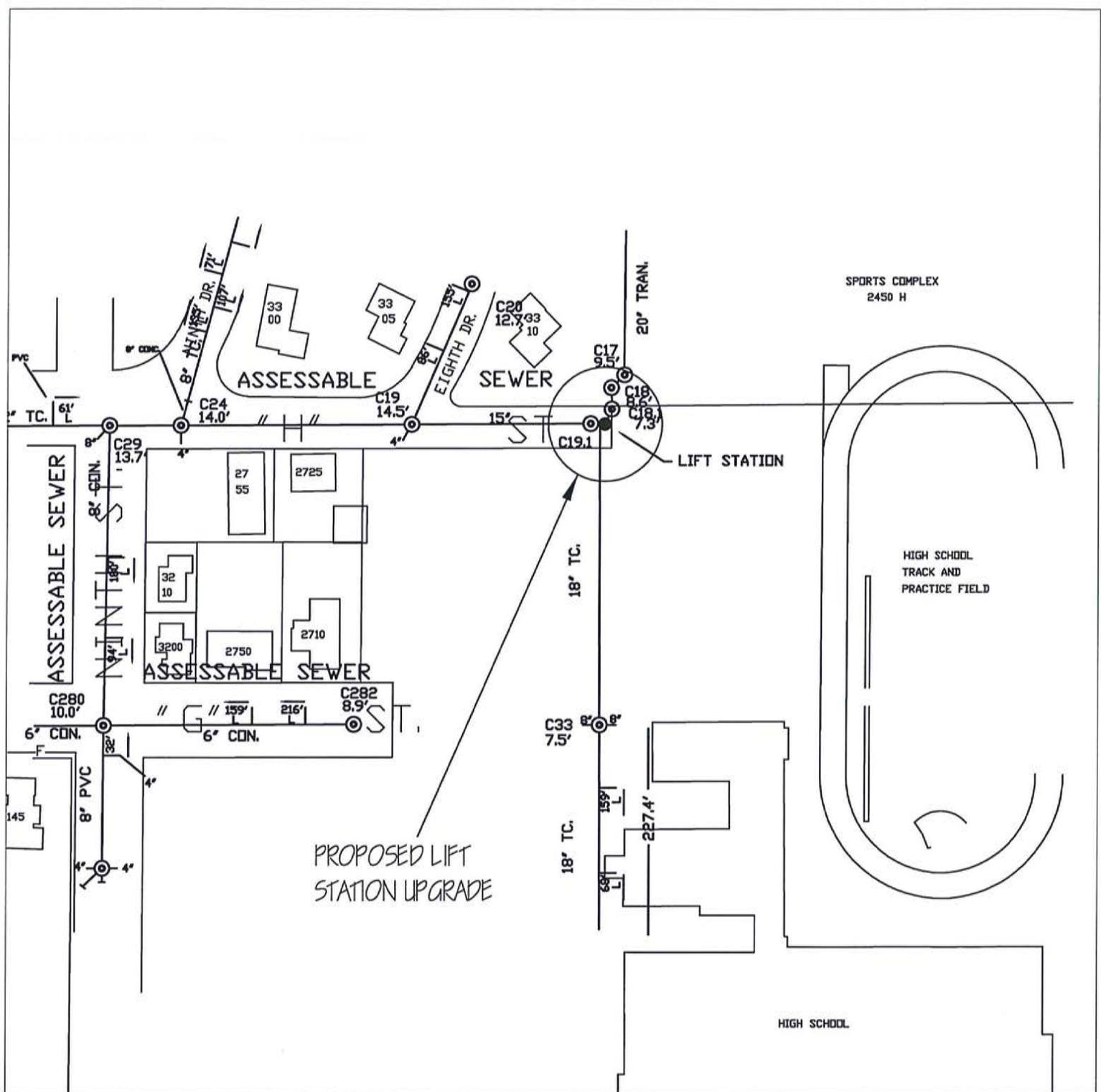
Current Year Update

BAKER CITY PUBLIC WORKS
 WASTE WATER CAPITAL PLAN
 ESTIMATE OF COST
 2019-2020 FISCAL YEAR - 2nd Half
 JANUARY 1, 2020 - JUNE 30, 2020

ITEM #	LOCATION	QUANTITY	UNIT	UNIT COST	ESTIMATED TOTAL COST	SIZE TYPE	OBJECTIVE
1	Various Locations	Varies	Lineal Feet	Varies	\$ 150,000.00	Varies	Install CIPP (Cured In Place Pipe) lining to prevent leakage & improve structural & flow characteristics of deteriorating sewage lines.
2	H St. - 7th Street	1	Lump Sum	\$240,000.00	\$ 240,000.00	N/A	Upgrade the H St. lift station.
SUBTOTAL					\$ 390,000.00		
ENGINEERING					\$ 39,000.00		
ADMINISTRATIVE CHARGE					\$ 34,320.00		
TOTAL ESTIMATED COST					\$ 463,320.00		

*Current funding / rate structure does not provide adequate funding for this project

CURRENT YEAR
 ITEM NO. 2
 H STREET LIFT STATION
 PROPOSED UPGRADE



Year 1

**BAKER CITY PUBLIC WORKS
WASTE WATER CAPITAL PLAN
ESTIMATE OF COST
2020-2021 FISCAL YEAR
JULY 1, 2020 - JUNE 30, 2021**

ITEM #	LOCATION	QUANTITY	UNIT	UNIT COST	ESTIMATED TOTAL COST	SIZE TYPE	OBJECTIVE
1	Various Locations	Varies	Lineal Feet	Varies	\$ 150,000.00	Varies	Install CIPP (Cured In Place Pipe) lining to prevent leakage & improve structural & flow characteristics of deteriorating sewage lines.
2	*Wastewater Treatment Facility	N/A	Lump Sum	\$8,500,000.00	\$ 8,500,000.00	N/A	Begin construction of effluent storage pond and piping project.
3	* Wastewater Treatment Facility	N/A	Lump Sum	\$1,200,000.00	\$ 1,200,000.00	N/A	Upgrade current system to include grit removal, screening, valve replacement, scada update, and discharge piping. Also includes bio solids harvesting of pond A.
SUBTOTAL					\$ 9,850,000.00		
ENGINEERING					\$ 985,000.00		
ADMINISTRATIVE CHARGE					\$ 866,800.00		
TOTAL ESTIMATED COST					\$ 11,701,800.00		

*Current funding / rate structure does not provide adequate funding for this project

Year 2

**BAKER CITY PUBLIC WORKS
 WASTE WATER CAPITAL PLAN
 ESTIMATE OF COST
 2021-2022 FISCAL YEAR
 JULY 1, 2021 - JUNE 30, 2022**

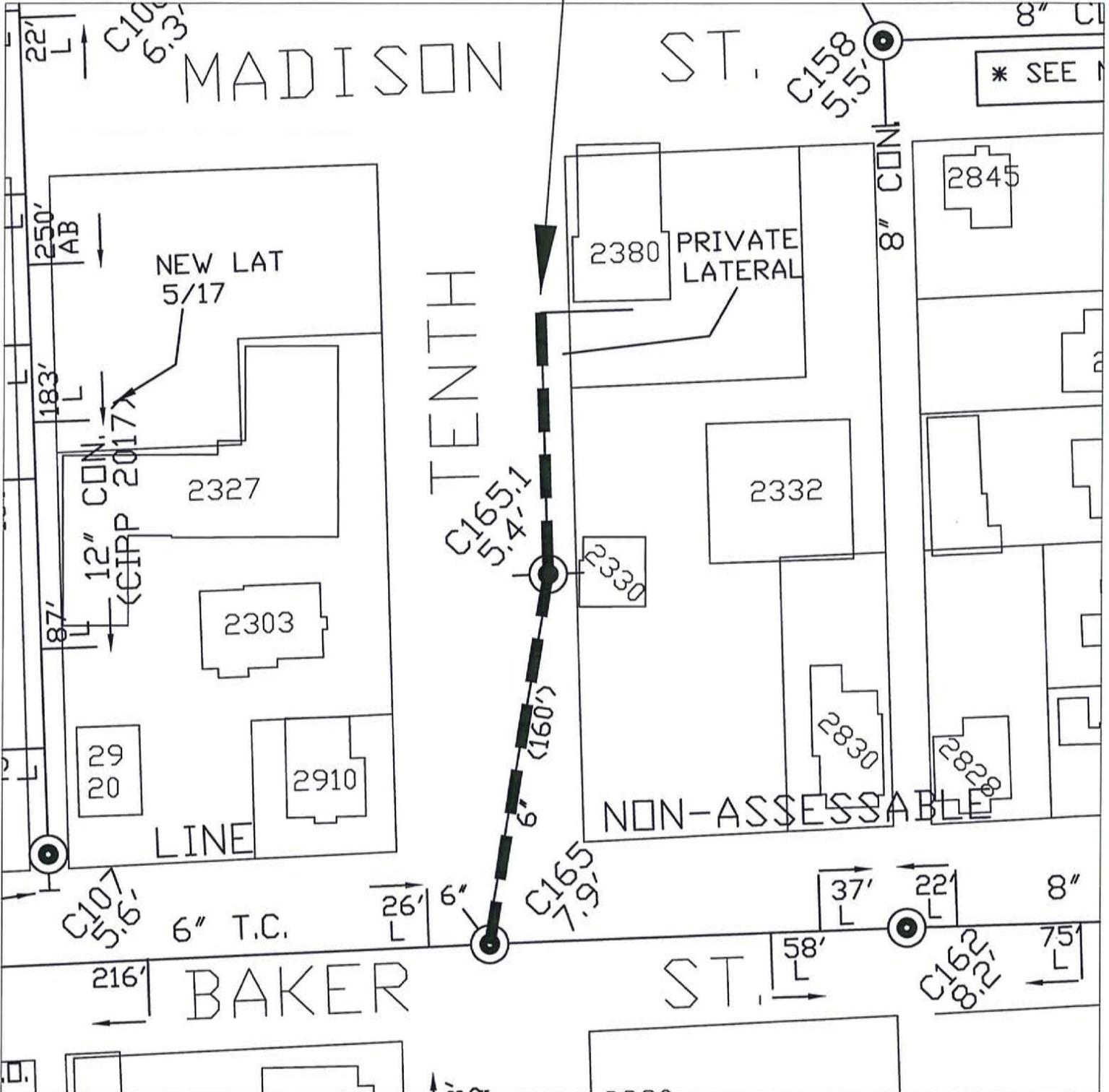
ITEM #	LOCATION	QUANTITY	UNIT	UNIT COST	ESTIMATED TOTAL COST	SIZE TYPE	OBJECTIVE
1	Various Locations	Varies	Lineal Feet	Varies	\$ 150,000.00	Varies	Install CIPP (Cured In Place Pipe) lining to prevent leakage & improve structural & flow characteristics of deteriorating sewage lines.
2	10th Street (Baker St. to Madison Ave)	270	Lineal Feet	\$100.00	\$ 27,000.00	8" PVC	Install 8" PVC to replace 6" TC and eliminate a problem sewer.
3	*Wastewater Treatment Facility	N/A	Lump Sum	\$200,000.00	\$ 200,000.00	N/A	Bio solids removal from small cells B, C and D.
SUBTOTAL					\$ 377,000.00		
ENGINEERING					\$ 37,700.00		
ADMINISTRATIVE CHARGE					\$ 33,176.00		
TOTAL ESTIMATED COST					\$447,876.00		

*Current funding / rate structure does not provide adequate funding for this project

YEAR 2
 ITEM NO. 2
 10TH STREET
 PROPOSED 8" MAINLINE



PROPOSED 8" PVC
 MAINLINE REPLACEMENT



Year 3

**BAKER CITY PUBLIC WORKS
 WASTE WATER CAPITAL PLAN
 ESTIMATE OF COST
 2022-2023 FISCAL YEAR
 JULY 1, 2022 - JUNE 30, 2023**

ITEM #	LOCATION	QUANTITY	UNIT	UNIT COST	ESTIMATED TOTAL COST	SIZE TYPE	OBJECTIVE
1	Various Locations	Varies	Lineal Feet	Varies	\$ 150,000.00	Varies	Install CIPP (Cured In Place Pipe) lining to prevent leakage & improve structural & flow characteristics of deteriorating sewage lines.
SUBTOTAL					\$ 150,000.00		
ENGINEERING					\$ 15,000.00		
ADMINISTRATIVE CHARGE					\$ 13,200.00		
TOTAL ESTIMATED COST					\$ 178,200.00		

*Current funding / rate structure does not provide adequate funding for this project

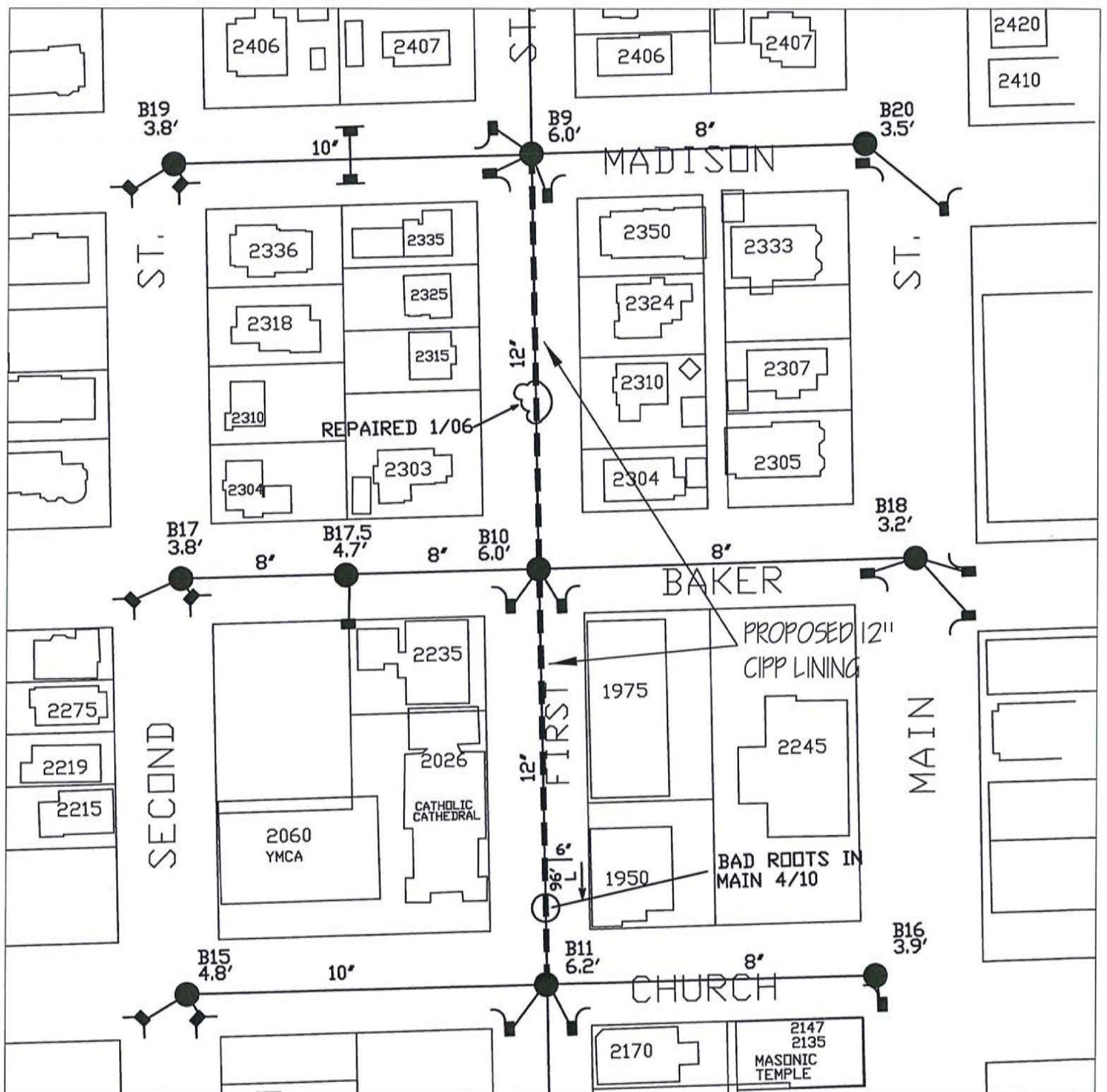
Current Year Update

BAKER CITY PUBLIC WORKS
 3 YEAR STORM WATER CAPITAL PLAN
 ESTIMATE OF COST
 2019-2020 FISCAL YEAR - 2nd Half
 JANUARY 1, 2020 - JUNE 30, 2020

ITEM #	LOCATION	QUANTITY	UNIT	UNIT COST	ESTIMATED TOTAL COST	SIZE TYPE	OBJECTIVE
1	1st Street (Church Street - Madison Street)	660	Lineal Feet	\$52.00	\$ 34,320.00	12"	Install CIPP (Cured In Place Pipe) lining to prevent leakage & improve structural & flow characteristics of deteriorating storm lines.
2	TV Inspection of Storm Mainlines	1	Lump Sum	\$5,000.00	\$ 5,000.00	Varies	Inspect condition of existing storm mainlines.
SUBTOTAL					\$ 39,320.00		
ENGINEERING					\$ 3,932.00		
ADMINISTRATIVE CHARGE					\$ 3,460.16		
TOTAL ESTIMATED COST					\$ 46,712.16		

Items noted in green lettering are projects required by state or federal regulatory agencies.

CURRENT YEAR
 ITEM NO. 1
 1ST STREET
 PROPOSED 12" CIPP LINING



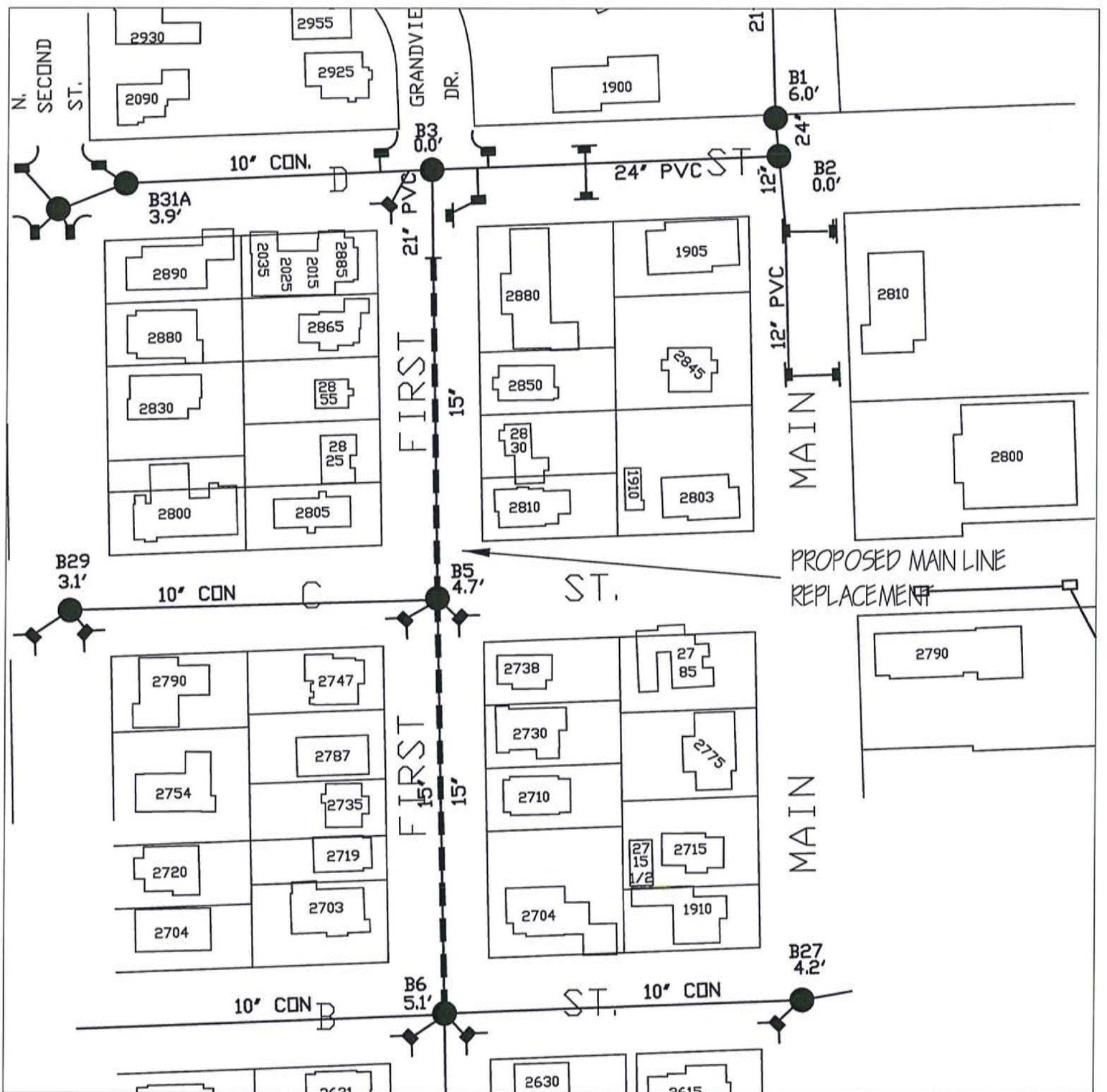
Year 1

**BAKER CITY PUBLIC WORKS
3 YEAR STORM WATER CAPITAL PLAN
ESTIMATE OF COST
2020-2021 FISCAL YEAR
JULY 1, 2020 - JUNE 30, 2021**

ITEM #	LOCATION	QUANTITY	UNIT	UNIT COST	ESTIMATED TOTAL COST	SIZE TYPE	OBJECTIVE
1	1st Street (B Street to D Street)	625	Lineal Feet	\$120.00	\$ 75,000.00	Varies	Upsize existing 15" main line to 21" to improve flow and eliminate surcharging.
2	GIS Mapping	Lump Sum	Lump Sum	\$10,000.00	\$ 10,000.00	N/A	Continue mapping system.
3	TV Inspection of Storm Mainlines	Lump	Lump Sum	\$5,000.00	\$ 5,000.00	Varies	Inspect condition of existing storm mainlines.
SUBTOTAL					\$ 90,000.00		
ENGINEERING					\$ 9,000.00		
ADMINISTRATIVE CHARGE					\$ 7,920.00		
TOTAL ESTIMATED COST					\$ 106,920.00		

Items noted in green lettering are projects required by state or federal regulatory agencies.

YEAR 1
 ITEM NO. 1
 1ST STREET
 PROPOSED 21" STORM MAINLINE



Year 2

**BAKER CITY PUBLIC WORKS
3 YEAR STORM WATER CAPITAL PLAN
ESTIMATE OF COST
2021-2022 FISCAL YEAR
JULY 1, 2021 - JUNE 30, 2022**

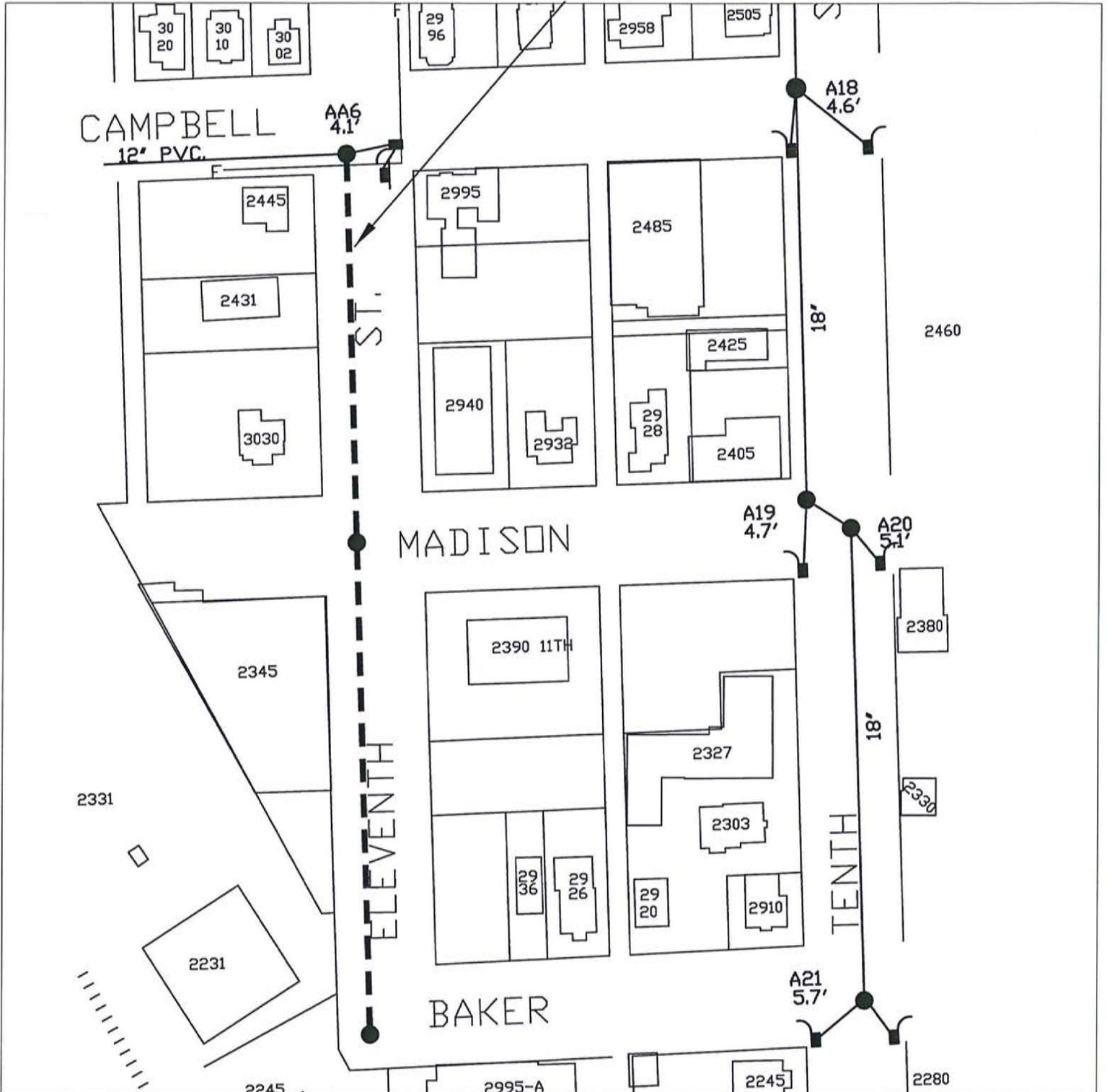
ITEM #	LOCATION	QUANTITY	UNIT	UNIT COST	ESTIMATED TOTAL COST	SIZE TYPE	OBJECTIVE
1	Locations to be Determined	500	Lineal Feet	\$52.00	\$ 26,000.00	Varies	Install CIPP (Cured In Place Pipe) lining to prevent leakage & improve structural & flow characteristics of deteriorating storm lines.
2	11th Street (Baker St. to Campbell St.)	700	Lineal Feet	\$60.00	\$ 42,000.00	12" PVC	Install a new 12" PVC mainline to address drainage issues.
3	11th Street (Place St. to Auburn Ave.)	340	Lineal Feet	\$80.00	\$ 27,200.00	12" PVC	Install a new 12" PVC mainline to address drainage issues.
3	TV Inspection of Storm Mainlines	Lump	Lump Sum	\$5,000.00	\$ 5,000.00	Varies	Inspect condition of existing storm mainlines.
SUBTOTAL					\$ 100,200.00		
ENGINEERING					\$ 10,020.00		
ADMINISTRATIVE CHARGE					\$ 8,817.60		
TOTAL ESTIMATED COST					\$ 119,037.60		

Items noted in green lettering are projects required by state or federal regulatory agencies.

YEAR 2
ITEM NO. 2
11TH STREET
PROPOSED 12" STORM MAINLINE

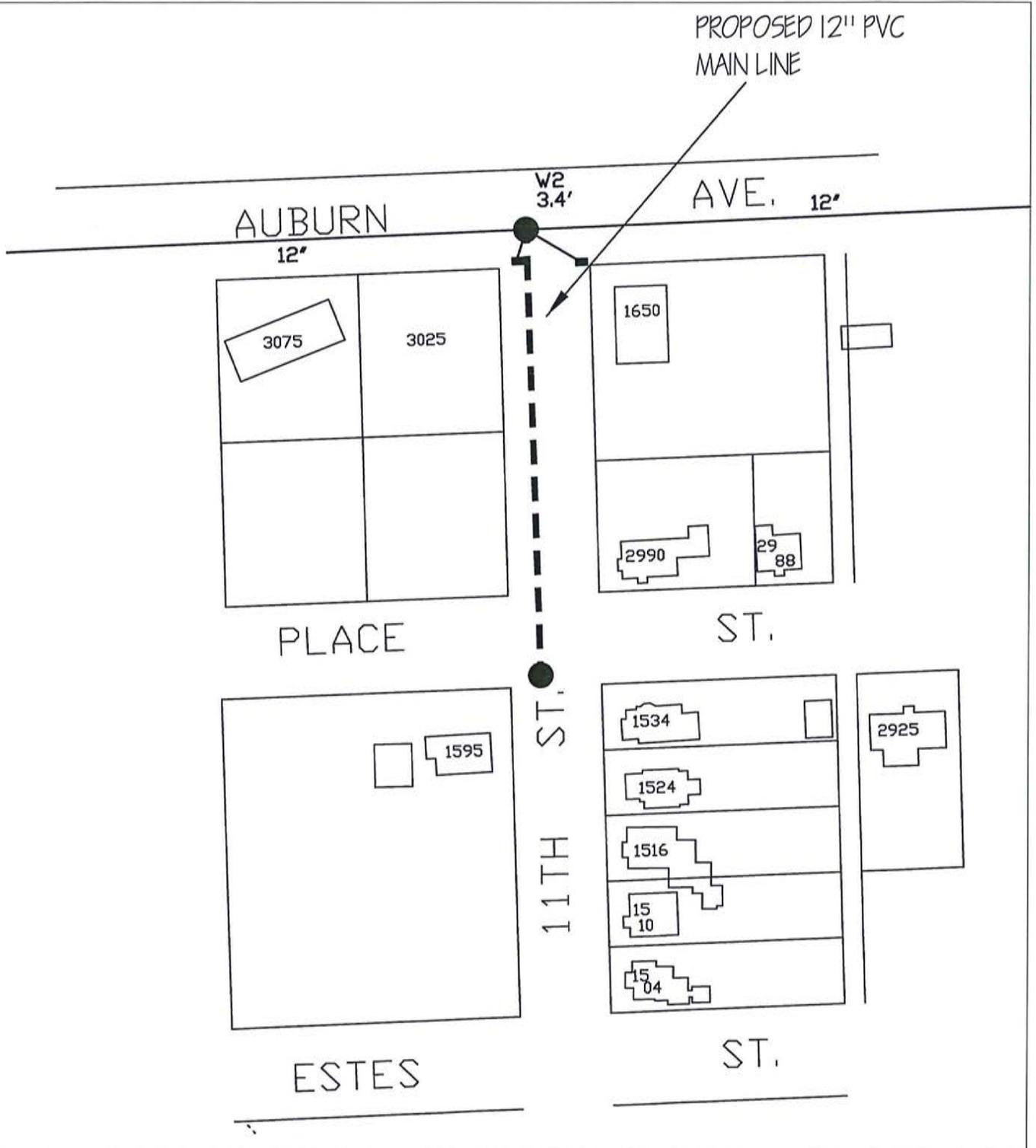


PROPOSED 12" PVC
MAIN LINE





YEAR 2
ITEM NO. 3
11TH STREET
PROPOSED 12" STORM MAINLINE



Year 3

BAKER CITY PUBLIC WORKS
3 YEAR STORM WATER CAPITAL PLAN
ESTIMATE OF COST
2022-2023 FISCAL YEAR
JULY 1, 2022 - JUNE 30, 2023

ITEM #	LOCATION	QUANTITY	UNIT	UNIT COST	ESTIMATED TOTAL COST	SIZE TYPE	OBJECTIVE
1	Locations to be Determined	500	Lineal Feet	\$54.00	\$ 27,000.00	Varies	Install CIPP (Cured In Place Pipe) lining to prevent leakage & improve structural & flow characteristics of deteriorating storm lines.
2	TV Inspection of Storm Mainlines	Lump	Lump Sum	\$5,000.00	\$ 5,000.00	Varies	Inspect condition of existing storm mainlines.
SUBTOTAL					\$ 32,000.00		
ENGINEERING					\$ 3,200.00		
ADMINISTRATIVE CHARGE					\$ 2,816.00		
TOTAL ESTIMATED COST					\$ 38,016.00		

Items noted in green lettering are projects required by state or federal regulatory agencies.