FIGURE 2.1

FOX engineering

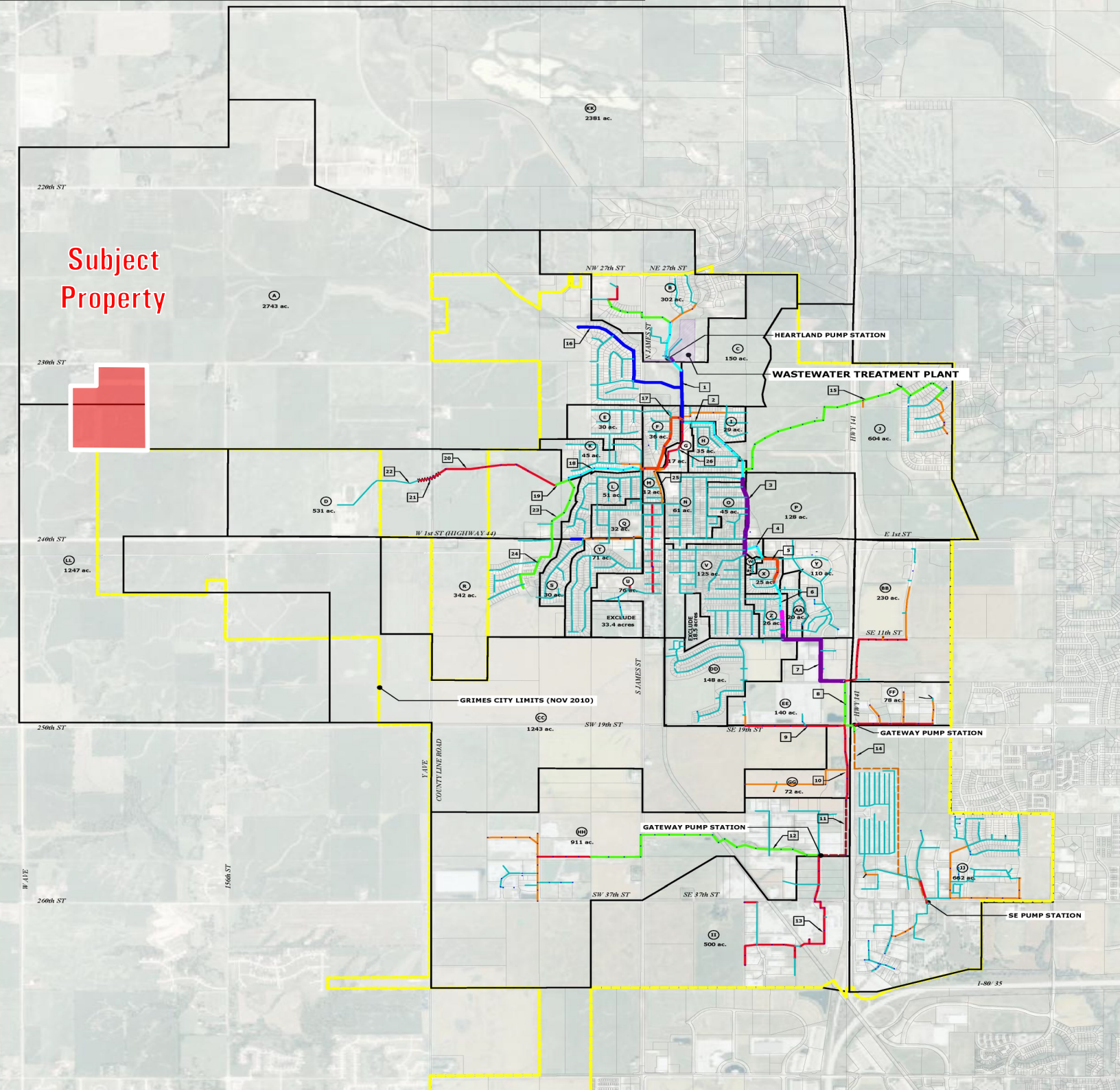
CITY LIMITS
EXISTING 8" SANITARY SEWER
EXISTING 10" SANITARY SEWER
EXISTING 12" SANITARY SEWER
EXISTING 15" SANITARY SEWER
EXISTING 18" SANITARY SEWER
EXISTING 21" SANITARY SEWER
EXISTING 24" SANITARY SEWER
EXISTING 30" SANITARY SEWER
EXISTING 10" FORCE MAIN
EXISTING 12" FORCE MAIN
A SANITARY DRAINAGE BASIN DESIGNATION
1 SANITARY SEWER TRUNK MAIN DESIGNATION

Sources: 1) 2009 USDA Orthophotos distributed by Iowa State University and MIT
2) Nov 1, 2010 Polk County parcel data

SCALE
0 1/4 MILE 1/2 MILE

NORTH

SANITARY SEWER SYSTEM
CITY OF GRIMES, IOWA

SEWER CAPACITY

Sewer	Diameter, inches	Capacity, gpm	2005 % Capacity	2025 % Capacity	Ultimate % Capacity
1	24	2915	173	305	673
2	18	2095	175	293	558
3	30	7096	46	72	135
4	18	1656	165	269	527
5	21	3227	85	138	270
6	18	2222	114	191	374
7	30	5547	43	74	148
8	15	1141	210	345	680
9	18	2704	9	12	15
10	12	834	100	147	437
11	12 (FORCE)				
12	15	1909	21	29	104
13	12	1257	35	46	115
14	10 (FORCE)				
15	15	884	10	81	198
16	24	3911	0	7	51
17	21	4082	8	16	53
18	18	2566	10	33	136
19	15	2002	12	39	167
20	12	1052	22	93	193
21	12	711	32	133	282
22	8	346	67	226	967
23	15	1613	20	54	157
24	15	913	11	43	109
25	10	1093	59	59	59
26	12	834	83	83	83