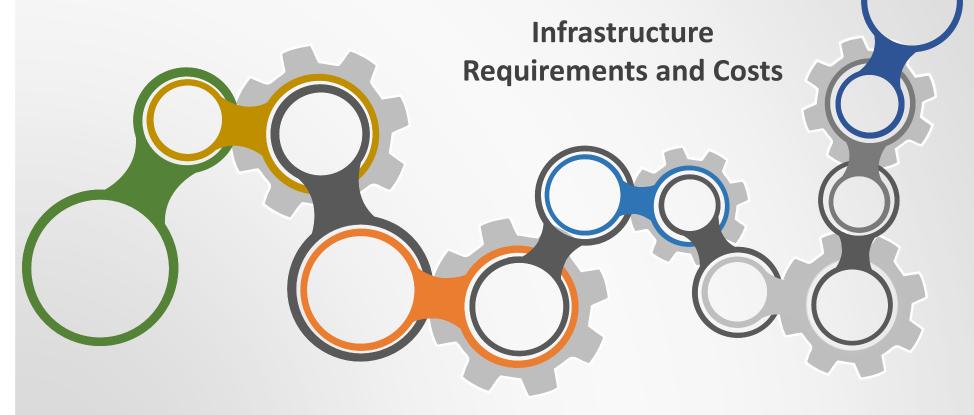
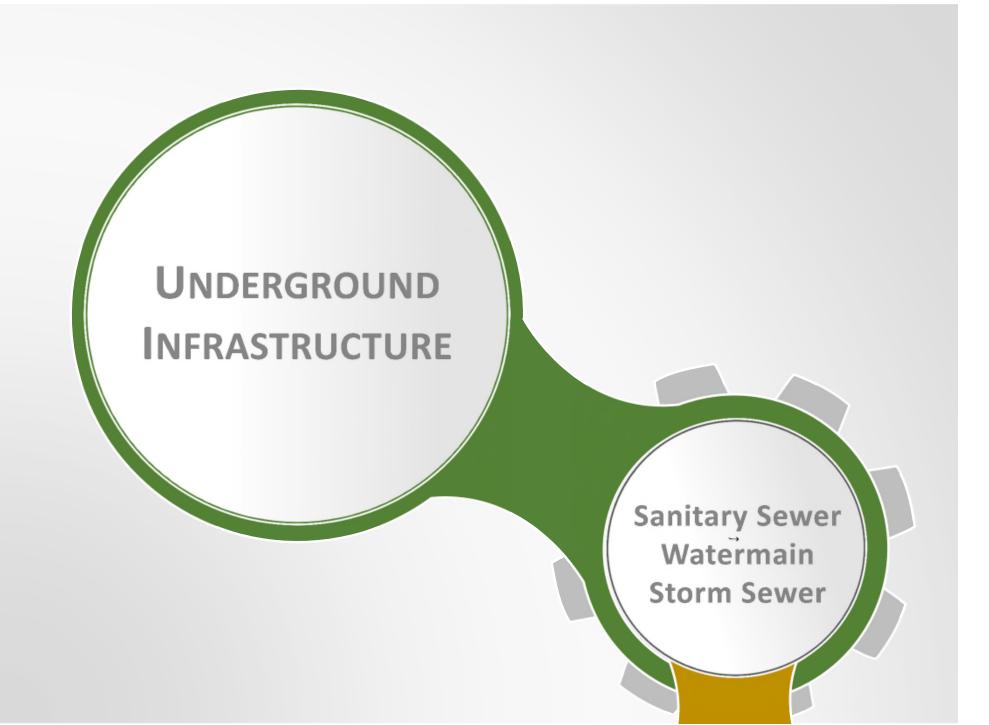
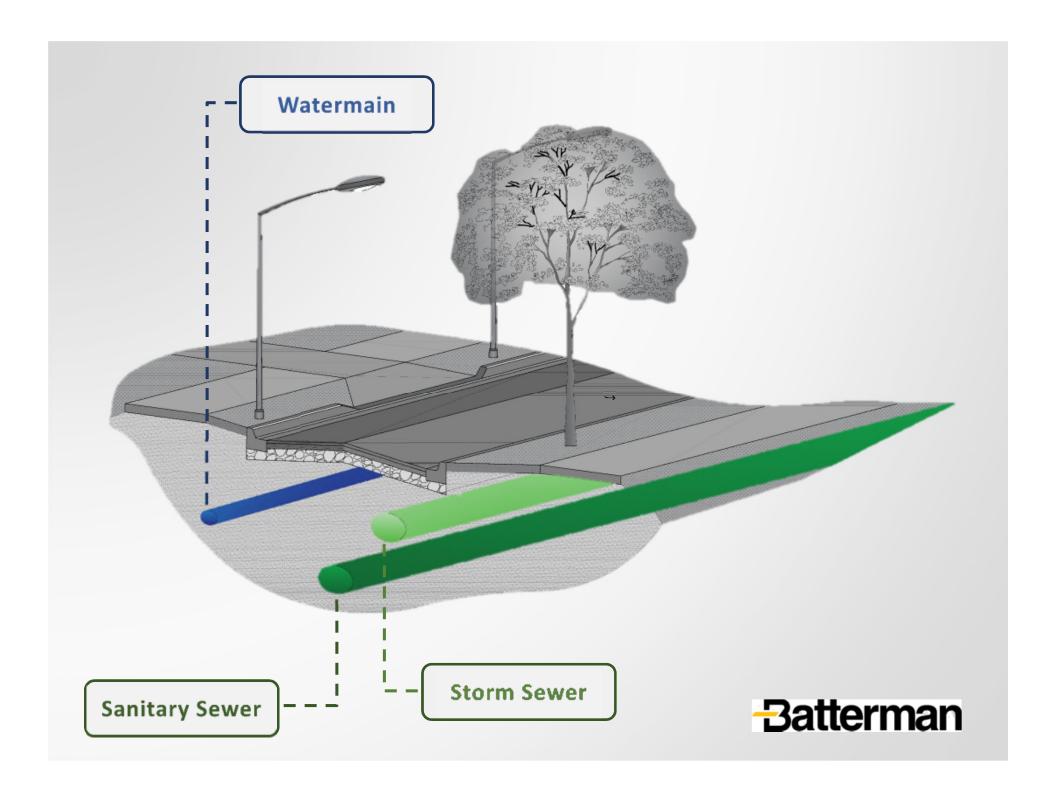
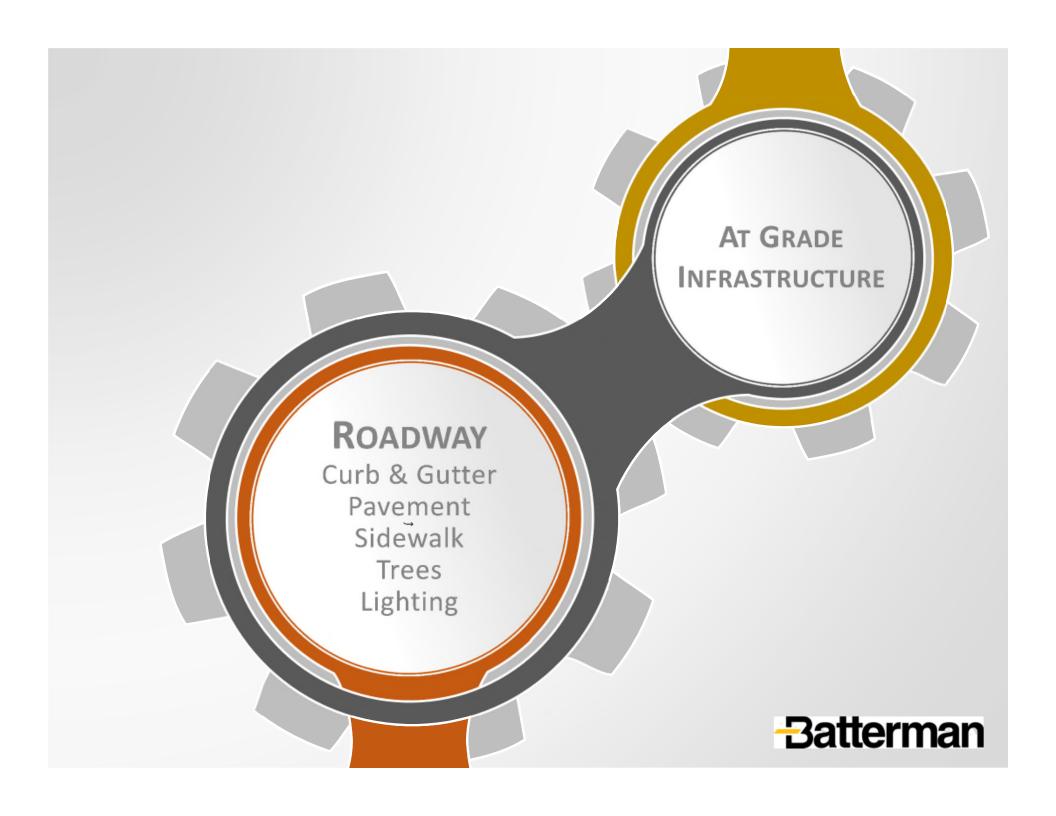
BELOIT HOUSING CONFERENCE 2017

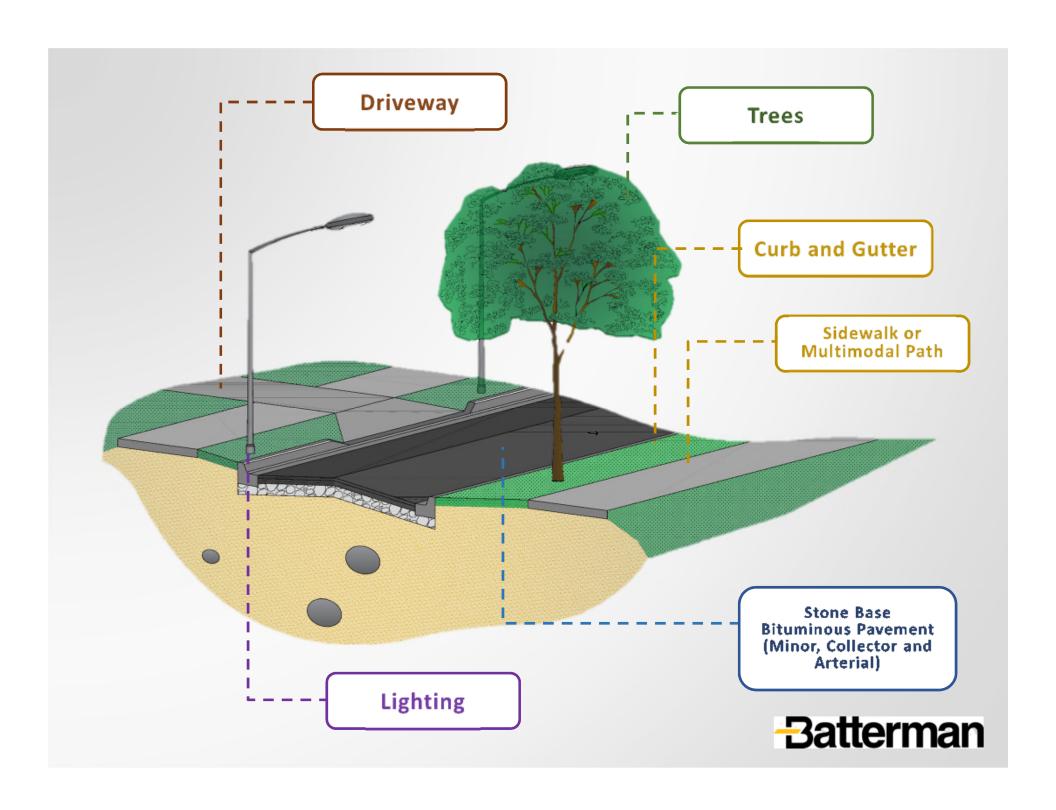


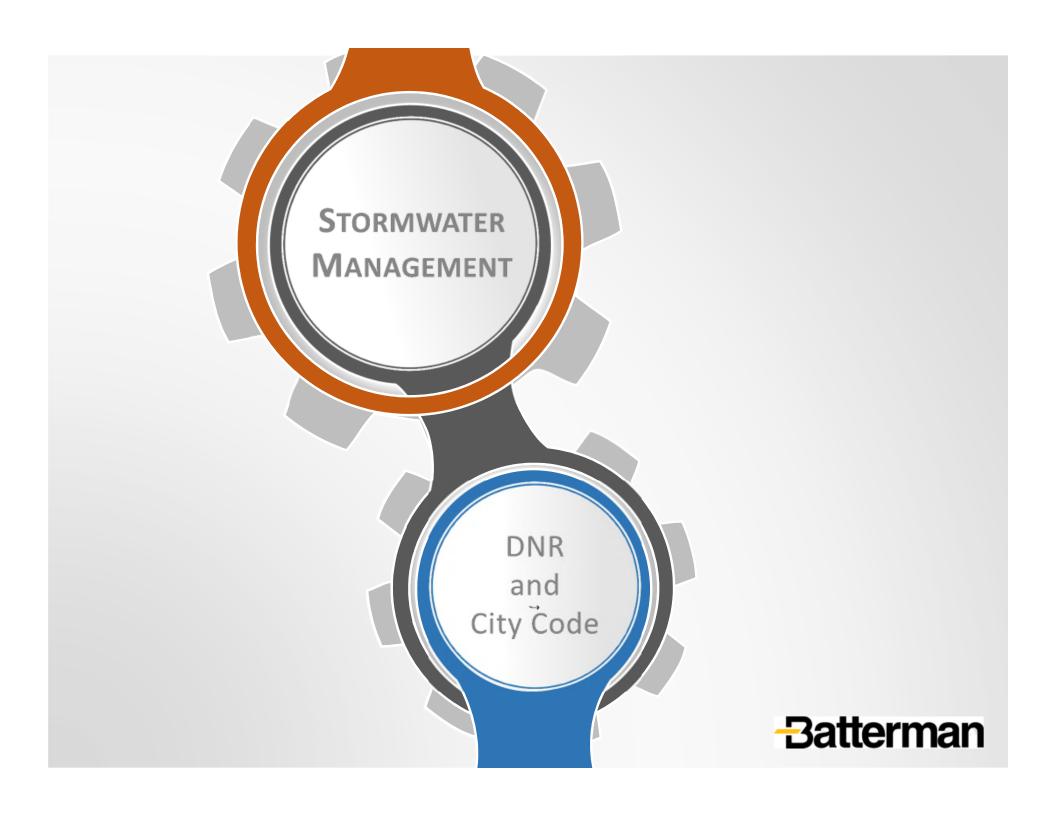














Stormwater Management

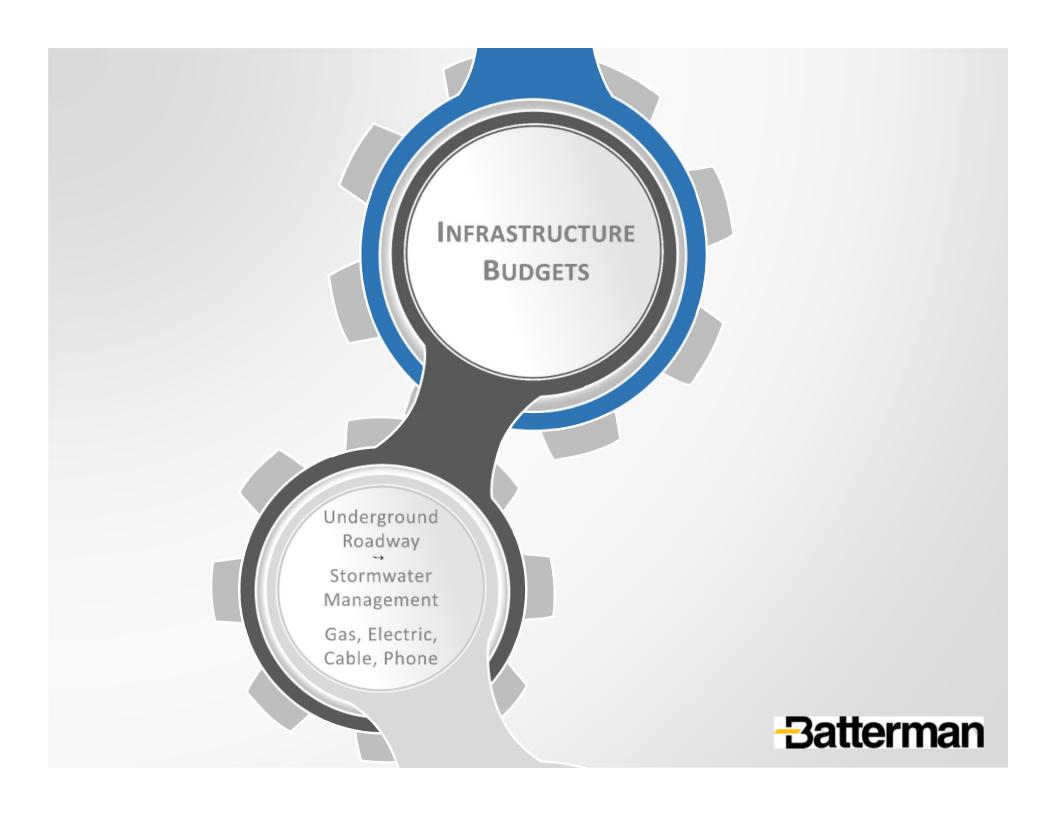
DNR REQUIREMENTS NR 151 (RUNOFF MANAGEMENT) AND NR 216 (STORMWATER DISCHARGE PERMITS)

- Quantity
- Quality
- Infiltration

The City and DNR have requirements for peak discharges, total suspended solids and infiltration.

CITY CODE

- More restrictive for peak discharge than DNR.
 Volume of runoff from a 100 Year storm event after development cannot exceed the before development 10 Year storm event.
- Rule of thumb 6%-8% of total land area will be needed for stormwater management





General Costs

STARTS WITH UNDERGROUND UTILITIES

- Sanitary Sewer_____ \$92 per LF
- Watermain _____ **\$96 per LF**
- Stormwater_____\$3,000 \$5,000 per Acre

ROADWAY

Excavation, stone base, Bituminous Pavement,
 Curb & Gutter, Sidewalk, and Terrace Restoration
 (Minor Street) ______\$135 per LF

ROADWAY, SANITARY & WATERMAIN _____ \$323 per LF

VARIABLES

- Cost of pavement, Time of Year
- Ideally Bid in the Winter and Construct in the Spring/Summer

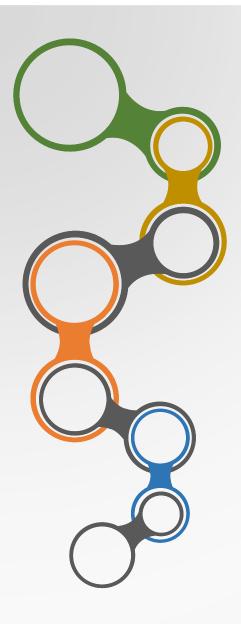


General Costs

GAS & ELECTRIC

- Gas ______ **\$16 per LF**
- Electric ______ \$16 per LF

Utility will refund the costs as customers connect over a 5 year period. After that, no refund



Hypothetical Subdivision

20 Acres of Land 2,200 LF of Roads and Infrastructure 37 Proposed Lots after Right of Way and Stormwater Management

COSTS

TOTAL COST	\$885,400 \$23,930 per Lot
GAS & ELECTRIC 2,200 LF x \$32	\$70,400
STORMWATER 20 Acres x \$5,000	\$100,000
ROADWAY, SANITARY & WATERMAIN 2,200 LF x \$325	\$715,000

• Range of \$20,000 to \$25,000 per Lot for Infrastructure