

JOHNSON COUNTY WASTEWATER CITY STREET & STORMWATER IMPROVEMENT PROJECT PLAN REVIEWS & COORDINATION

Purpose: *To protect the environment and the citizens of Johnson County by preserving and protecting the sanitary sewer infrastructure operated by Johnson County Wastewater.*

Designer's Checklist:

- **Are sanitary sewers shown on plan sheets?**
 - ✓ Go to "Online Mapping" at aims.jocogov.org for general location mapping and record drawings.
 - ✓ Label all JCW manholes with the manhole number shown on the AIMS Internet mapping.
- **Are sanitary sewers shown on profile sheets?**
 - ✓ Field survey of sanitary sewers is **strongly** recommended.
 - ✓ As-built drawings are available through the AIMS mapping website. *(contact Charles for assistance.)*
 - ✓ Service connection locations *(approximate)* on main sewers may be found on as-built drawings.
 - ✓ Service connection locations can also be found by televising the sewer line. *(contact Charles for more info)*
 - ✓ Label any necessary reinforced concrete pipe encasements or DIP pipe replacements in profiles.
- **Are manhole adjustments proposed and called out on plan sheets?**
 - ✓ Include a standard JCW manhole detail sheet in plan set.
 - Click on "Forms" in left menu at www.jcw.org
 - ✓ Include a call-out label for how much a manhole is being adjusted (+/-)
 - ✓ Manhole full-depth reconstruction may be required under the following conditions:
 - If manhole depth is increased beyond 16 feet, manhole wall thickness below 16 ft must be 5".
 - If manhole depth is increased beyond 20 feet, manhole diameter below 20 feet must be 5 ft.
 - If manhole depth is increased beyond 25 feet, manhole diameter below 25 feet must be 6 ft.
- **Are there conflicts with sanitary sewer or service lines?**
 - ✓ Reinforced concrete encasement **or** replacement of line with a lined ductile iron pipe (DIP) per JCW standard is required under the following conditions:
 - Storm Sewer crosses within 30" vertically over sanitary sewer.
 - Storm Sewer crossing over sanitary line is 36" in diameter or greater *(exceptions to this requirement are considered on a case-by-case basis)*
 - Storm Inlet is placed over the top of a sanitary line (avoid this if possible).
 - ✓ Reinforced concrete encasements or DIP replacement pipes should extend at least five feet (5') on either side of conflicting storm sewer, storm inlet, or other structure.
 - ✓ If DIP replacement pipe or reinforced concrete encasement is within three feet (3') of a manhole, DIP replacement and/or encasement should be extended to the manhole to minimize pipe settlement/offsetting near the manhole.
- **Are sanitary sewer service lines shown or noted in some fashion on the plans?**
- **Is depth of additional fill a loading concern for existing sanitary sewer lines?**
 - ✓ If fill depth causes sewer line to be between 15 and 20 feet deep, SDR 26 PVC is required
 - ✓ If fill depth causes sewer line to be greater than 20 feet deep, DIP or RCP pipe is required
 - ✓ Structural lining (CIPP) may be an option to consider. *(approved by JCW on a case-by-case basis)*

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Designer's Checklist (continued):

- **Are future sanitary sewer crossings for developing areas planned in the construction area (major thoroughfare/street improvement projects)?**
 - ✓ JCW can provide information regarding future sanitary sewer crossings planned at roadways.

- **Is sanitary sewer relocation required?**
 - ✓ Relocations require full sanitary sewer design plans per JCW minimum plan requirements and must be approved by JCW. Please contact Charles McAllister to discuss JCW submittal requirements.

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