

Palm Club Sanitary Sewer

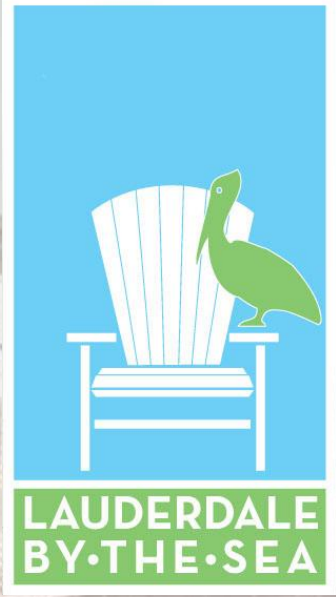


- The Town of Lauderdale-by-the-Sea is seeking grant funding through the Florida Department of Economic Opportunity Rebuild Florida Mitigation General Infrastructure Program
- As part of the grant application process, the Town is posting the following project information for a 14-day public comment period.
- Please review the project information presented and submit any comments or request for a copy of the proposed grant application to kenr@lbts-fl.gov by September 7, 2020.

Palm Club Sanitary Sewer



- Type of Project to be Undertaken: Septic to Sewer Conversion
- Available Funding for Project:
 - Town of Lauderdale-by-the-Sea = \$1,750,000
 - City of Pompano Beach = \$150,000
 - Broward County = \$150,000
 - FDEP Water Quality Grant (applied for; funding not guaranteed) = \$1,750,000 (requested)



TOWN OF LAUDERDALE-BY-THE-SEA

Palm Club

Septic to Sewer Conversion
Project Information

August 24, 2020

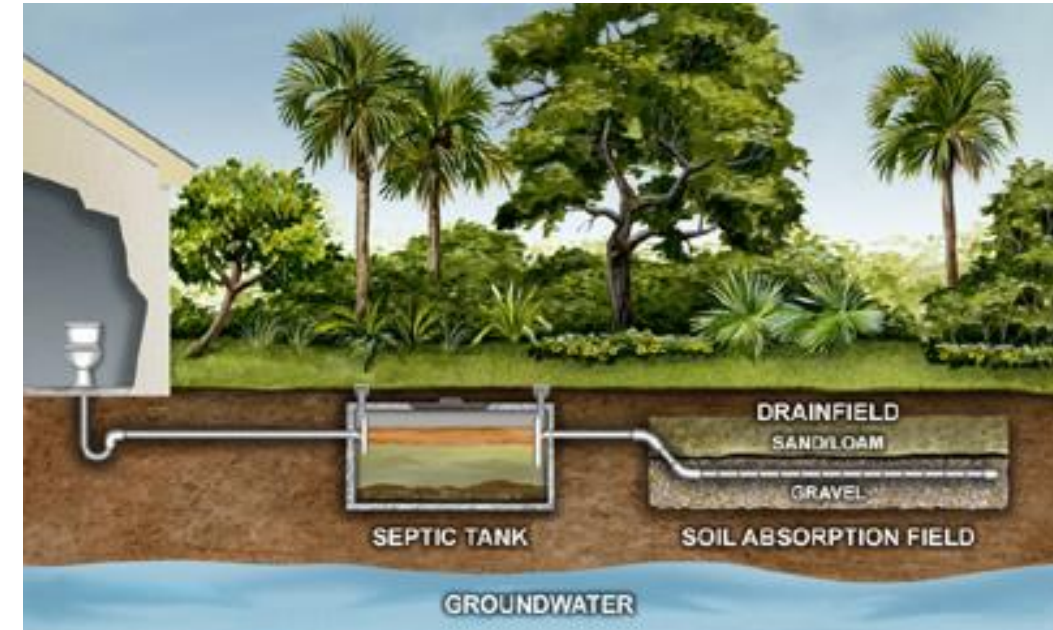
History



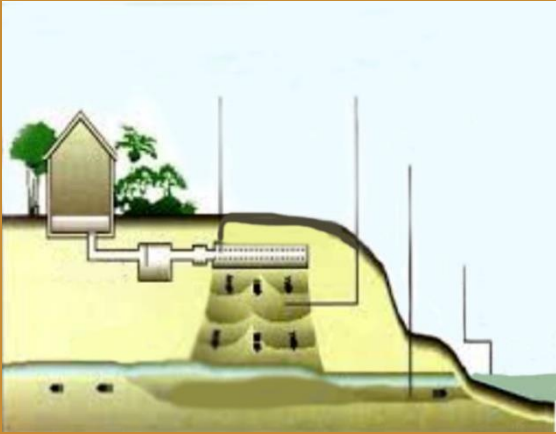
- Palm Club community septic to sewer conversion
- Privately owned community
- One-hundred (100) residential units
- Located adjacent to the northern limits of the Town
- Reduce potential adverse environmental impacts associated with septic systems

Septic Tanks

- Underground wastewater collection and treatment systems
- Household wastewater is collected via floor or sink drains
- Provide retention to allow for solids settling
- Promote biological decomposition
- Fats, oils and grease provide a good source of energy
- Wastewater discharges to a drainfield and percolates into the surrounding soils
- Solids must be pumped out and properly disposed of at periodic intervals



Environmental Impacts of Septic Tanks

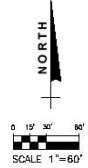


- Septic tanks discharge contains significant concentrations of nutrients and bacteria
- Potential to detrimentally impact drinking water sources
- Adverse environmental impacts to sensitive water bodies
- Degraded water quality
- Potential for algae blooms
- More significant in coastal communities
- Promote more rapid transport of contaminants through the groundwater and adjacent water bodies

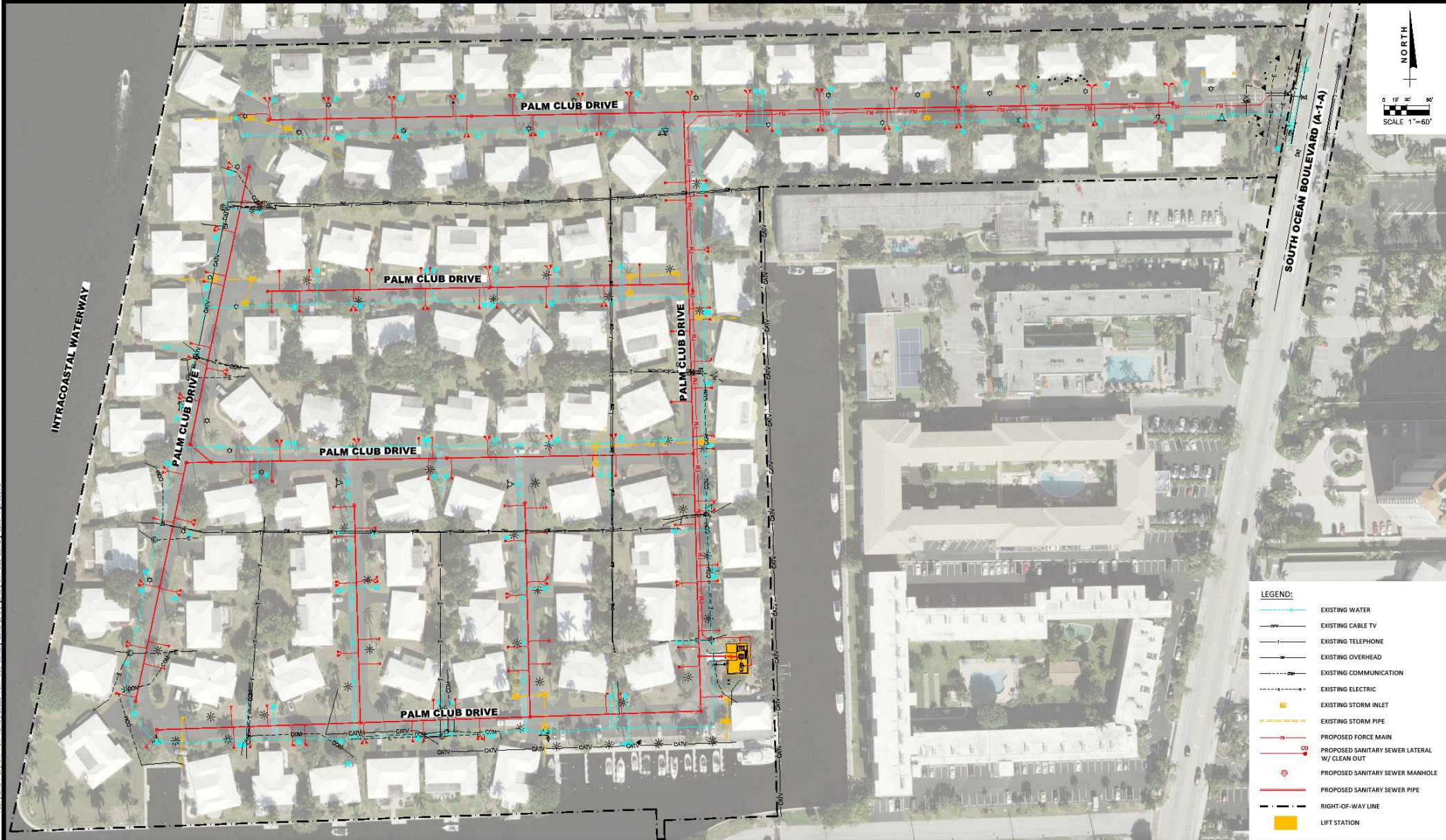
Basis of Design



- Gravity sewer system will collect and convey domestic wastewater generated from the community to the City of Pompano Beach
- Collected wastewater flows treated at the Broward County North Regional Wastewater Treatment Plant
- Closed systems
- Wastewater is conveyed “by gravity” using downward sloping pipe to a lift station
- 8-inch diameter polyvinyl chloride (PVC) gravity sewer mains located within the center of the roadway
- Manholes are located at a maximum interval of 400-feet
- Lift station located north of the maintenance facility will discharge wastewater to City of Pompano Beach system
- Many residences have 2 septic tanks and will have 2 service lateral connections
- Residents will have to contract a plumber to connect the house plumbing to the sewer lateral and perform the abandonment of their septic system



- LEGEND:**
- EXISTING WATER
 - EXISTING CABLE TV
 - EXISTING TELEPHONE
 - EXISTING OVERHEAD
 - EXISTING COMMUNICATION
 - EXISTING ELECTRIC
 - EXISTING STORM INLET
 - EXISTING STORM PIPE
 - PROPOSED FORCE MAIN
 - PROPOSED SANITARY SEWER LATERAL W/ CLEAN OUT
 - PROPOSED SANITARY SEWER MANHOLE
 - PROPOSED SANITARY SEWER PIPE
 - RIGHT-OF-WAY LINE
 - LIFT STATION



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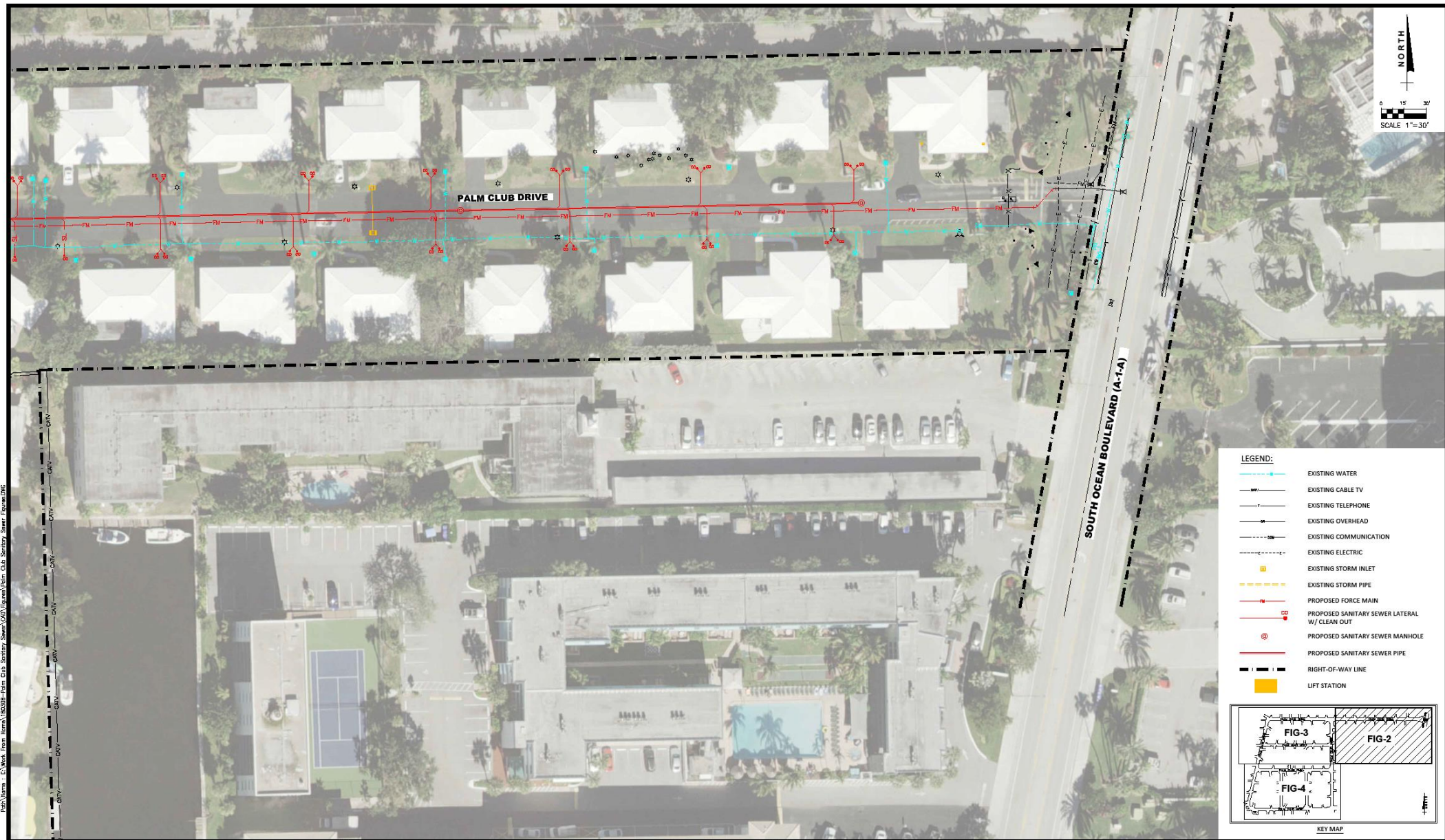
TOWN OF LAUDERDALE-BY-THE-SEA
 4501 NORTH OCEAN DRIVE
 LAUDERDALE-BY-THE-SEA, FL 33308
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VERIFY SCALE
 1" = 60'
 BAR IS ONE INCH
 ON FULL SIZE
 (22x34) ORIGINAL
 DRAWING. ADJUST
 SCALES AS
 NECESSARY.

TOWN OF LAUDERDALE-BY-THE-SEA
PALM CLUB SANITARY SEWER

FIGURE:
1



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TOWN OF LAUDERDALE-BY-THE-SEA

PALM CLUB SANITARY SEWER

FIGURE:
2



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Lift Station Installation – Wetwell



Installation via Caisson Method



Removal of Material within Wet Well



Rebar Floor Construction



Concrete for Ballast Seal and Floor



Wet Well Slab Setting

Lift Station Installation – Valve Vault



Valve Vault Setting



Piping within Valve Vault

Lift Station Photos



Lift Station Example



Proposed Lift Station Location



Electric Control Panel



Bypass Pumping Unit

Sewer System Construction



Other Construction Photos



Site Dewatering



Sewer Main and Service Lateral Installation



Excavation



Compaction of Backfill around Pipe

Roadway Reconstruction



Trench Compaction

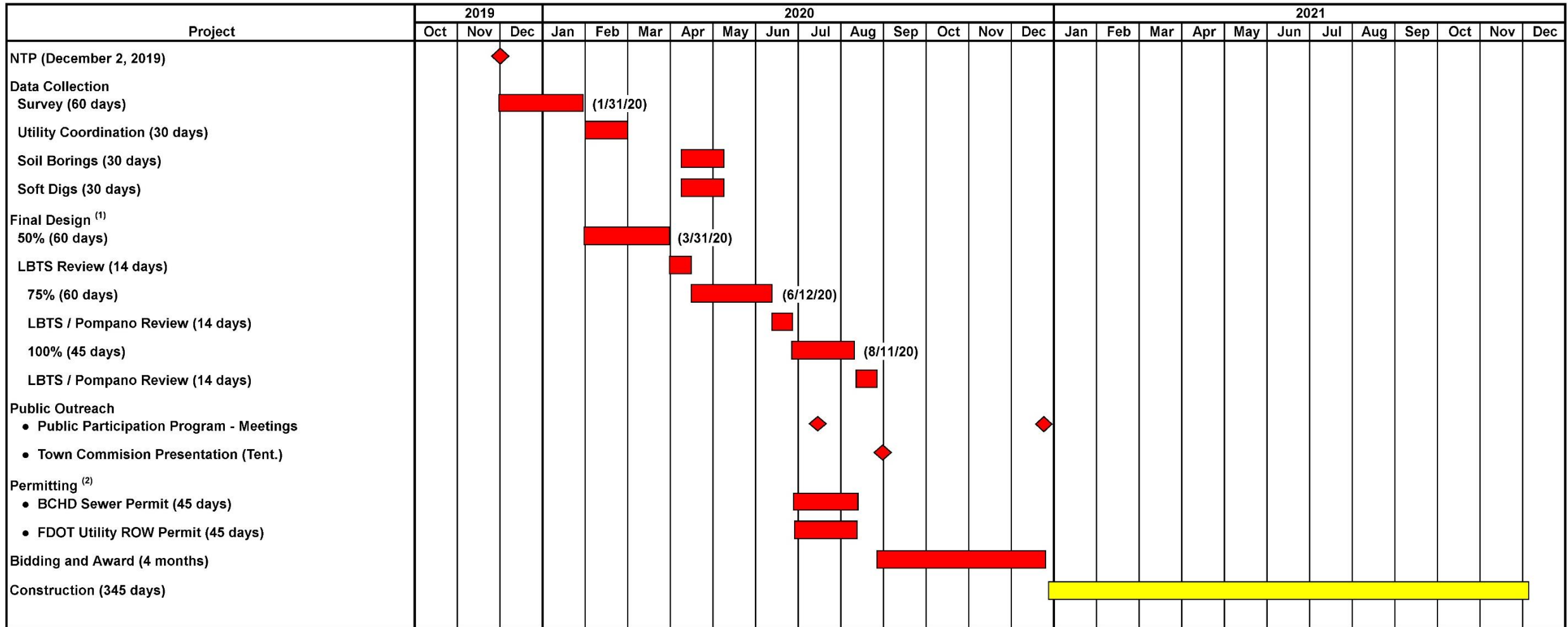


Laying Asphalt



Rolling Asphalt

Palm Club Gravity Sewer System - Project Schedule



Notes:

(1) The design schedule is based upon conducting a review meeting within 14 calendar days after LBTS receives the submittal. All review comments shall be provided to MC within 14 calendar days after LBTS receives the submittal. An adjustment to the overall schedule will be required in case the review meeting takes longer to be conducted and/or obtaining comments takes longer to receive.

(2) Estimated based upon typical regulatory agency review period.



Please review the project information presented and submit any comments to kenr@lbts-fl.gov by September 7, 2020.

