



CITY OF HAVELOCK

Post Office Box 368
Havelock, NC 28532

INVITATION TO BID

Pursuant to North Carolina General Statutes §143-131, the City of Havelock invites informal bids on the following:

Bids must be submitted in accordance with the attached specifications. Bids must include an itemized schedule (including quantity, unit price and total) for each work element. Bids can be submitted by mail, email, fax or hand delivered. Cover sheets, envelopes, etc. should be clearly marked with the words:

***“City of Havelock,
2026 Sinking Manhole and Sinkhole
200 Shipman Rd. Havelock, NC. 28532”***

Address Bids to: **Kimberly Walters, Finance Director
City of Havelock
P.O. Box 368
1 Governmental Ave.
Havelock, NC 28532
Fax: 252-447-0126
Email: Bids@havelocknc.us**

Bids will be accepted until **2:00 PM (EST) on Thursday, August 27, 2026**, at which time they will be reviewed in the office of the City Finance Officer. Quotes are not subject to public inspection until the contract is awarded. The bids are good for 75 days after opening. The winning bidder will be issued a Notice To Proceed (NTP) along with a Purchase Order. The performance period is 45 calendar days from the NTP.

Bidders are cautioned not to submit bids until the proposed requirements and specifications have been carefully examined. It will be considered that bidders will have satisfied themselves as to the accuracy of the specifications. No proposal will be considered unless prices are submitted for all items requested in any section. The City reserves the right to change the amount of quantities.

All bids submitted should be to the desired specifications. Any exceptions to the specifications will be evaluated based on the best interest of the City. Any deviation from specifications indicated herein must be clearly pointed out; otherwise, it will be considered that items offered are in strict compliance with these specifications, and bidder will be held responsible therefore. Deviations shall be explained in detail. The bidder shall not construe this paragraph as inviting deviation or implying that any deviation will be acceptable.

The names of certain brands or makes denote quality standard in the article desired, but do not restrict bidders to the specific brand, make or manufacturer named. They are meant to convey to prospective bidders the general style, type, character and quality of the article desired.

The successful bidder on all construction contracts will be required to conduct the operation in accordance with all Federal, State, and Municipal health and safety rules, regulations and laws applicable to the operation. The successful bidder may be asked to provide the City with a copy of the company's safety plan prior to commencing work. For all projects over \$30,000, a general contractor's license must be furnished to the City if applicable.

Certificate to Transact Business in North Carolina: As a condition of contract award, each out-of-State Vendor that is a corporation, limited-liability company or limited-liability partnership shall have received, and shall maintain throughout the term of The Contract, a Certificate of Authority to Transact Business in North Carolina from the North Carolina Secretary of State, as required by North Carolina law. A contract requiring only an isolated transaction completed within a period of six months, and not in the course of a number of repeated transactions of like nature, shall not be considered as transacting business in North Carolina and shall not require a Certificate of Authority to Transact Business.

The City will not sell bid packages. Plans, specifications, and addenda may be viewed and obtained online at www.havelocknc.us. Click on: “Bid on a Contract”; “Current Bids”. The Bidder’s List is maintained by Vendor Registry. Registration for the Bidder’s List is made online at www.havelocknc.us. Click on: “Bid on a Contract”; “Vendor login/Registration”.

N.C.G.S. (North Carolina General Statutes), specifically §160A-20.1(b), prohibit the City from entering into contracts with contractors and subcontractors who have not complied with the requirement of Article 2 or Chapter 64. The Contractor shall submit the E-Verify Affidavit, located in the Bid Proposal section, with their bid. Bids that do not include this Affidavit will be considered non-responsive.

N.C.G.S 147-86.42-84 requires that contractors with a North Carolina Local Government must not utilize any subcontractor found on the State Treasurer’s Iran Divestment list or Companies Boycotting Israel list. The referenced lists can be found on the State Treasurer’s website at the address www.nctreasurers.com and will be updated every 180 days.

The City of Havelock reserves the right to reject any or all proposals and to purchase items from the state contract in the efforts to award the contract to the bidder it deems to be for the best interest of the City.

MODIFICATION AND WITHDRAWAL OF BIDS. Bids may be modified or withdrawn by an appropriate document duly executed (in the manner that a Bid must be executed) and delivered to the place where Bids are to be submitted at any time prior to the opening of Bids. A request to withdraw a bid may be made to the Owner within 72 hours after Bids are opened in accordance with NCGS § 143-129.1 Requests to withdraw a Bid will be subject to the requirements of NCGS §143-129.1 and in the sole discretion of the City of Havelock Finance Officer.

This institution is an equal opportunity provider, and employer.

Contact person(s) for information on this bid:

For questions in regards to the bid specifications, the City requires and only responds to questions submitted in writing and sent via email to: Bids@havelocknc.us

Questions must be received by **2:00 PM (EST) on Wednesday, August 12, 2026**. If questions are received, the City will respond no later than **2:00 PM (EST) on Thursday, August 20, 2026**.

This is the 27th day of July 2026

Published: DemandStar July 27, 2026

CITY OF HAVELOCK

Kimberly Walters
Finance Director



**STATE OF NORTH CAROLINA
AFFIDAVIT
CITY OF HAVELOCK**

I, _____ (the individual attesting below), being duly authorized by and
on behalf of _____ (the entity hereinafter "Employer") after first being duly
sworn hereby swears or affirms as follows:

1. Employer understands that E-Verify is the federal E-Verify program operated by the United States Department of Homeland Security and other federal agencies, or any successor or equivalent program used to verify the work authorization of newly hired employees pursuant to federal law in accordance with NCGS §64-25(5).
2. Employer understands that Employers Must Use E-Verify. Each employer, after hiring an employee to work in the United States, shall verify the work authorization of employee through E-Verify in accordance with NCGS §64-26(a).
3. Employer is a person, business entity, or other organization that transacts business in the State and that employs 25 or more employees in this State. (mark Yes or No)
 - a. YES _____, or
 - b. NO _____
4. Employer's subcontractors comply with E-Verify, and if Employer is the winning bidder on this project, Employer will ensure compliance with E-Verify by any subcontractors subsequently hired by Employer.

This _____ day of _____, 20_____.

Signature of Affiant: _____

Print or Type Name: _____

State of North Carolina County of _____

Signed and sworn to (or affirmed) before me, this the

_____ day of _____, 20_____.

Signature of Notary

Printed Name of Notary

Bid Sheet

Base Bid: _____

NC Sales Tax: _____

Delivery Cost (if applicable): _____

Total Cost to City: _____

Bids must include an itemized schedule by quantity, unit price and total for each work element.

Company Name: _____

Company Address: _____

Contact Person: _____

Telephone Number: _____

Email Address: _____

NC Contractor's License Type and Number: _____

Number of Addendums Acknowledged (circle one): N/A 1 2 3 4

As of the date listed below, the vendor or bidder listed above is compliant with N.C.G.S. 147-86.42-84, the Iran Divestment Act and the Companies Boycotting Israel Act.

Authorized Signature: _____

Print Name of Authorized Signature: _____

Title: _____

Address Bid to: Kimberly Walters, Finance Director

City of Havelock

P.O. Drawer 368

1 Governmental Avenue

Havelock, NC 28532

Bids@Havelocknc.us

Please indicate the Bid name on the outside of the envelope.

2026 Sinking Manhole and Sinkhole 200 Shipman Rd. Havelock, NC. 28532

Objective:

Excavate, Remove, and Replace existing manhole HS-90, repair sinkhole, and replace three sections of the 8" Sanitary Gravity Sewer Line.

Scope:

The existing HS-90 manhole is 4' in diameter by 60" from the invert to rim elevation. This manhole is to be excavated, removed, disposed of, and a new manhole will be installed within the same location. The diameter and height of the new manhole shall remain the same as the existing manhole. There are two influent 8" Sanitary Gravity Sewer Lines coming into this manhole and there is one effluent line exiting the manhole. See figure 3. The influent and effluent lines shall be pre-cored to fit 8" pipe boots and 8" PVC SDR 35 pipe. The manhole channeling shall run straight from each of the influent lines to the effluent line. See figure 5.

The first of the three sections of 8" PVC SDR 35 Sanitary Gravity Sewer Pipe to be replaced is a 50' section. This section of 8" PVC SDR 35 Sanitary Gravity Sewer Pipe is an influent line coming from HS-42. This section of pipe is approximately 5' deep and has been struck and damaged by a communication cable at a distance of approximately 43' from HS-90. During the removal and replacement of the existing 8" PVC Sanitary Gravity Sewer Main line, the communication cable and line shall not be damaged, if the communication cable and line is damaged the contractor will be responsible for remediating the damage before the project is complete.

The second of the three sections of 8" PVC SDR 35 Sanitary Gravity Sewer Pipe to be replaced is a 20' section. This section of 8" PVC SDR 35 Sanitary Gravity Sewer Pipe is an influent line coming from HS-44. This section of pipe is approximately 5' deep, and has an offset within a joint at approximately 18' from HS-90. See figure 3.

The third section of 8" PVC SDR 35 Sanitary Gravity Sewer Pipe to be replaced is a 20' section. This section of 8" PVC SDR 35 Sanitary Gravity Sewer Pipe is an effluent line flowing towards to HS-41, and is approximately 5' deep. See figure 3.

Bypass pumping shall be the responsibility of the contractor. See section 8. All commercial and residential service lines shall be bypassed during the manhole installation, sanitary gravity main replacement, and inspections of both the newly installed manhole and sanitary gravity main line. A bypass plan shall be submitted to a representative of the City of Havelock for approval prior to the beginning of the project.

Traffic control shall be the responsibility of the contractor. See section 9. A traffic control plan shall be submitted to a representative of the City of Havelock for approval prior to the beginning of the project.

The contractor shall dewater as required for completion of work. Excavation shall be kept free of water at all times during manhole removal, manhole installation, pipe removal, pipe installation, and backfill. See section 5. A copy of the dewatering plan shall be submitted to a representative of the City of Havelock prior to the beginning of the project.

A site visit is highly recommended but not mandatory. All measurements are approximate contractor to verify. The contractor shall comply with all requirements of OSHA 1926, including but not limited to trench box, and confined space regulations. The contractor is

responsible for all locates and verification, any utility damage caused by the contractor shall be remediated by the contractor before the end of the project at no additional cost to the City of Havelock. Contractor is to supply all labor, materials, equipment to complete this project, unless otherwise specified in writing. The City of Havelock shall not be held responsible for omissions or errors in description.

1. Replacement of the HS-90 Manhole

- a. All excavations shall be protected from cave in by use of shoring, the contractor shall be responsible for remediation created by any and all excavation growth. All excavations shall be protected by use of fabric fencing, and shall be designed to stop trespassing into the work area.
- b. Excavated material shall not be stockpiled, excavated material shall be hauled and disposed of daily. In no manner shall excavated material be used for compacted material.
- c. The contractor shall excavate a minimum of 100 square feet (10'X10') of base soil underneath the manhole base by a minimum of twenty-four inches deep and replace with 57 stone. All 57 stone within the base stone shall be wrapped on all sides, top, and bottom with geo-textile fabric. The 57 stone shall be compacted to 98% standard proctor in no more than eight-inch lifts.
- d. The contractor shall determine the base elevation of the new manhole by utilizing the rim elevations of the existing HS-41 and HS-44 manholes.
- e. The assembly of the manhole shall include a CS-102 Butyl Rubber sealant and shall create a durable and watertight seal.
- f. Contractor shall perform a vacuum test on the new manhole. A representative from the City of Havelock shall be present for the vacuum test.
- g. Before any backfilling, the manhole shall be inspected by a representative of the City of Havelock. The representative from the City of Havelock shall be given a 24-hour notice prior to the inspection taking place.

2. Replacement of the PVC SDR 35 Sanitary Gravity Sewer Line

- a. Excavate and remove the three affected sections of 8" PVC SDR Sanitary Gravity Sewer Line.
- a. Excavated material shall not be stockpiled, excavated material shall be hauled and disposed of daily. In no manner shall excavated material be used for compacted material.
- b. All excavations shall be protected from cave in by use of shoring, the contractor shall be responsible for remediation created by any and all excavation growth. All excavations shall be protected by use of fabric fencing, and shall be designed to stop trespassing into the work area.
- c. The newly installed Gravity Sanitary Sewer Piping shall be installed into the manhole and lift station by use of pipe boots and shall be grouted both inside and out of the manhole and lift station.
- d. The newly installed piping shall have a bedding of no less than 12" of ABC stone and shall be brought to the mid-section of the pipe.

- e. Install piping beginning at low point at existing sewer, true to grades and alignment indicated with unbroken continuity of invert. Place bell ends of piping facing upstream. Install gaskets, seals, sleeves, fittings, and couplings according to manufacturer's written instructions for using lubricants, cements, and other installation requirements. Maintain swab or drag in line, and pull past each joint as it is completed.
- f. Use factory fittings for branch / lateral connections. Install lateral connection fittings turned within 10 degrees of vertical, whenever possible.
- g. Connect all service laterals. Service laterals shall be replaced up to and including the cleanout. Where there is no cleanout or where the cleanout is outside the right-of-way, service laterals shall be replaced to the right-of-way line and a new cleanout shall be installed.

Pavement Restoration and Utility Cut

- a. Utility Cut shall be the width of the excavation needed to replace the affected manhole and 8" PVC SDR 35 Pipe.
- b. The Pavement Restoration shall be approximately 1,826 square feet encompassing the width of Shipman rd. and approximately 31 feet into the parking lot of 200 Shipman Apartment Building encompassing the width of the entrance to the parking lot. See figure 4 for dimensions.
- c. The pavement restoration along Shipman Road shall be 25' in each direction from the center of Manhole HS-90.
- d. The contractor shall be responsible for square cutting the utility cut back to undisturbed asphalt before the Pavement Restoration portion of this project can begin.
- e. For the utility cut the contractor shall utilize a 12" bedding of 57 stone for both the newly installed 8" sanitary sewer line and 4" lateral services and fill the excavation with 57 or ABC stone to 12" above the top of the sanitary sewer lines. Engineered select fill shall backfill of the remainder of the excavation to 13.5" from the top of the existing asphalt. ABC stone shall be utilized to 1.5" from the top of the existing asphalt.
- f. All pavement restoration, resurfacing, and utility cut shall adhere to section 12 for pavement restoration and figure 2.
- g. All three ends of the pavement resurfacing and sidewalks shall be incidental milled 1.5" deep and be 4' wide to allow a smooth transition from existing pavement and sidewalks to new pavement.
- h. Water valves and manholes shall have a riser ring installed to maintain valves and lids at pavement elevation.
- i. The asphalt shoulder shall be straight, level and even. Top soil shall be utilized for shoulder treatment and shall begin at the same elevation as the newly installed asphalt pavement transitioning into the shoulder on a 3 to 1 slope. The shoulder treatment shall be seeded and straw placed on top.
- j. Any concrete sidewalks damaged will be replaced full width, from the asphalt shoulder to the first contraction joint in the sidewalk. See section 13 for Concrete Restoration.

3. Gravity Sewer Materials:

- a. PVC SDR35 Gravity Sewer Pipe: Pipe shall conform to all requirements of AWWA and shall be capable of withstanding the overburden pressures determined by the depth of burial in the field.
- b. Non-pressure-type Pipe Couplings: Couplings for joining new PVC pipe to existing pipe shall be solid sleeve type suitable for all types of pipe. When applicable, material shall be ductile iron with gaskets suitable for sewer service. Coupling shall be Maxadaptor coupling or equal, per AWWA C605.
- c. Solid Wall Plastic Pipe Cutting: Cutting of pipe lengths shall be performed using tools and or equipment that will provide a neat, perpendicular cut without damage to the plastic. All burrs shall be removed using a file, knife or abrasive paper. Ends on the cut pipe shall be beveled to prevent gasket damage.

4. Dewatering:

- a. The contractor shall dewater as required for completion of work. Excavation shall be kept free of water at all times during pipe removal, pipe replacement, and backfill operation.
- b. All dewatering shall flow through a sediment filter bag. Sediment filter bags shall be of Polypropylene non-woven geotextile fabric with a sewn-in sleeve of sufficient size to accept a 4-inch diameter discharge hose. The discharge hose shall be extended into the sleeve a minimum of six (6) inches and be tightly secured with a hose clamp or other suitable device to prevent leakage. Contractor shall size sediment filter bags as necessary to dewater excavations. Effluent to be directed to adjacent stormwater conveyance areas and Contractor shall remove any accumulation of sediment from such areas following dewatering operations.
- c. Upon removal of any dewatering header pipe system the contractor shall be responsible for filling the header pipe hole with filter sand to 50% of the depth of the hole while compacting to 95% standard proctor in 8" lifts. Grout shall be utilized to fill to 90% of the depth of the hole and the remaining 10% shall be topsoil, or select fill.
- d. The usage of water from a hydrant will only be accomplished by use of a Hydrant Meter which will be issued from Customer Service at City Hall within the City of Havelock. The Hydrant Meter must be returned to Customer Service at City Hall within the City of Havelock at the completion of the project.
- e. Upon submission of the Hydrant Meter Application there will be a \$ 500.00 dollar deposit due. The Hydrant Meter will be delivered to the project site upon the contractor calling 1-252-670-0663 and scheduling the delivery. Hydrant Meters are subject to availability.
- f. Upon return of the Hydrant Meter, usage will be read and the metered charge will be applied. If the metered charge is less than the deposit the contractor will receive a refund which will be minus the metered charge, if the metered charge is over the deposit amount a usage bill will be issued to the contractor for the balance over the deposit amount.

5. Excavation and Shoring:

- a. Contractor is responsible for the design and protection of all excavation and shoring. Standard shoring practices including trench boxes, which can be used if certified/stamped by manufacturer. If required, shoring shall be designed and sealed by a professional engineer registered in the State of North Carolina, as required by OSHA, CFR1926.
- b. Contractor shall notify NC 811 for utility locations prior to any excavations.
- c. In no case shall excavations exceed that which cannot be backfilled by the end of the work day.

6. Backfill and Compaction:

- a. All excavations shall be backfilled with 57 stone, ABC stone, or select fill material. Contractor shall be responsible for removal and disposal of all excavation material and construction debris on a daily basis.
- b. Compaction in embankment shall be to 95% standard proctor.
- c. Compaction in roadways, driveways, and sidewalks shall be to 98% standard proctor.

7. Pipe and Manhole Bedding:

- a. Pipe bedding shall consist of a twelve-inch (12") depth of # 57 stone under pipe and #57 or ABC stone to the mid-level of the pipe. See figure 2.
- b. Manhole bedding shall consist of 100 square feet (10'X10') of 57 stone underneath the manhole base by a minimum of twenty-four inches deep. All 57 stone within the base stone shall be wrapped on all sides, top, and bottom with geo-textile fabric. The 57 stone shall be compacted to 98% standard proctor in no more than eight-inch lifts.

8. Erosion and Sediment Control and Restoration:

- a. The contractor shall be responsible for the installation and maintenance of all erosion and sediment control in accordance with the NC DEQ Erosion and Sediment Control Manual.
- b. Construction activities shall be completed in such a manner that erosion of disturbed areas and off-site sedimentation is absolutely minimized.
- c. All disturbed areas shall be restored as soon as construction is complete. Seed or sod type shall match existing grass in maintained areas. Follow the NC DEQ Erosion and Sediment Control Manual for type or as directed by a representative of the City of Havelock.

9. Bypass Pumping:

- a. Sewage bypass pumping shall be required for completion of repairs. If required, contractor shall design and furnish all material, labor, equipment, power, fuel, fuel storage, maintenance, etc. to implement a temporary bypass arrangement for the purpose of diverting flow around the work area on a daily basis for the duration of the repair. The bypass system shall meet the requirements of all codes and regulatory agencies having jurisdiction. Contractor shall be held liable for any and all fines imposed by local, State, and/or Federal agencies for failure to maintain flows or contain spills and/or overflows.

10. Traffic Control

- a. Contractor shall submit a Traffic Control Plan for any operations affecting traffic including but not limited to lane or road closures. City must approve the traffic plan prior to implementation, particularly 24-hour notice prior to any lane closure.
- b. Access to residences for local traffic shall be maintained throughout contract. Contractor shall provide a minimum of 24-hour notice to City of Havelock for any road closure.

11. Pavement Restoration

- a. Replacement of asphalt roadway and/or concrete driveways/sidewalks are the responsibility of the contractor and shall be returned to original condition or better before the end of the project.
- b. The contractor shall utilize a 12" bedding of 57 stone for both the newly installed 8" sanitary sewer line and 4" lateral services and fill the excavation with 57 or ABC stone to mid-level of the sanitary sewer lines. Engineered select fill shall backfill of the remainder of the excavation to 13.5" from the top of the existing asphalt. ABC stone shall be utilized to 1.5" from the top of the existing asphalt. Contractor shall follow specifications within figure 2 for both the utility cut and asphalt resurfacing.
- c. The contractor shall be responsible for square cutting the utility cut back to undisturbed asphalt before the Pavement Restoration portion of this project can begin.
- d. Engineered select fill shall be utilized within the utility cut from the top of the 57 or ABC stone above the top of the newly installed sanitary sewer lines and manhole to 13.5" from the top of the existing asphalt. ABC Stone shall complete the remainder of the backfill to 1.5" from the top of the existing asphalt. The Engineered select fill and ABC stone shall be compacted to 95% standard proctor in a maximum of eight-inch lifts.
- e. Asphalt base course to be applied within the utility cut shall be a minimum of one and a half inches thick and meet the requirements of B25.OB per NCDOT Standards for Roads and Structures. The asphalt base will remain at the elevation of the existing asphalt.
- f. Asphalt tack coat shall be sprayed or brushed on the existing asphalt to be tied into and shall be in accordance with section 605 asphalt tack coat of the NCDOT Standard Specifications for Roads and Structures.
- g. The asphalt surface course shall be S9.5B at one and a half inches thick per NCDOT Standards for Roads and Structures. Prior to placement of the asphalt surface course, the base course shall be inspected for damage or defects and repaired to the satisfaction to the representative of the City of Havelock.
- h. Asphalt stripping shall be restored to an as was condition. Stripping which

is done on a DOT roadway will meet all DOT specifications.

- i. Access to residents' driveways must remain as accessible as possible during the course of this project.

12. Concrete Restoration

- a. Any concrete rubble from removal of sidewalks will be the responsibility of the contractor to remove and dispose of in accordance with all local, state, and federal regulations. All concrete rubble shall be removed and disposed of on a daily basis.
- b. Concrete is to be 3500-pound fiber reinforced concrete mix.
- c. The foundation for the concrete shall be compacted to 95% standard proctor in no more than 8" lifts before the concrete is poured.
- d. The concrete sidewalks shall be no less than four inches thick.
- e. The concrete sidewalks will require no wire mesh or rebar.
- f. The seams where the new concrete meets the old concrete will be tooled to a ½" radius.
- g. The seams where the new concrete meets the existing concrete shall have a ½" expansion joint between the existing and newly poured concrete.
- h. Until completely cured the contractor will supply signage "No walking, Wet concrete".

13. Site Restoration

- a. Disturbance of existing landscape features shall be held to a minimum and all disturbed areas returned to a condition equal or better when repair is complete. Care shall be taken so as not to damage existing features to remain such as roadways, curbs, driveways, sidewalks, etc. All features removed or damaged shall be replaced or repaired to existing condition or better. All demolished material shall become the property of the contractor and shall be removed from the work site and disposed of in accordance with all local State, and Federal requirements. As-built documentation shall include a description of materials used and repair procedures completed at each site.

14. Performance Period

- a. It will be the contractor's responsibility to set a start date with a representative from the City of Havelock to begin a project within thirty (30) days from the issuance of a Notice of Award - Proceed.
- b. The performance period is 45 days from the listed date on the Notice to Proceed.
- c. The contractor shall work diligently to complete the project from the arranged start date. Work hours shall be 8am to 5pm, Monday through Friday. No work shall be performed on City holidays. Work outside established work hours must be scheduled with the City, 48 hours in advance and is subject to approval.
- d. The contractor will be responsible for contacting a representative of the City of Havelock in the event that a project will be extended outside of the arranged performance period. Contact must be in the form of an email and

acceptance of the extension of the performance period from a representative of the City of Havelock must also be in the form of an email.

Access:

- a. Access to project site is within existing City of Havelock right of way.

15. Termination Clause:

- a. Any agreement and issuance of purchase orders shall be terminated upon the expiration of (90) ninety days without work commencing. At the end of ninety days the City of Havelock will give written notice to the other party of its intention to terminate.
- b. Any intent to begin a project ninety (90) days or more after a purchase order has been issued must be submitted in writing and approved by a representative of the City of Havelock.

16. Warranty:

- a. Contractor will be held responsible for the materials and workmanship utilized within this project for a term of one year from the time that the equipment is put back into service.
- b. The City of Havelock will be responsible for the warranty of any materials that are supplied to the contractor by the City of Havelock during the course of this project.

General Provisions:

- a. Contractor shall comply with all requirements of OSHA 1926.
- b. Work hours shall be 8am to 5pm, Monday through Friday. No work shall be performed on City holidays. Work outside established work hours must be scheduled with the City, 48 hours in advance and is subject to approval.
- c. Contractor will obtain all necessary permits.
- d. Roadway repair is the responsibility of the contractor.
- e. Contractor shall control erosion and sediment release while this project is under construction.
- f. The contractor is to clean and remove all debris at the end of each work day.
- g. All underground utilities are to be 811 located, prior to work being started.
- h. Contractor is responsible for all damage to existing roads, driveways, drainage, or utilities that occur as a result of the construction project.
- i. Contractor is responsible for all damage to City property that occurs as a result of the construction of the project.
- j. Contractor shall provide safety measures during the entire length of the project.
- k. Contractor is responsible for the storage and safety of materials and equipment on jobsite.
- l. Submittals must be approved by the City of Havelock prior to any work starting.
- m. The performance period is 45 days from the Notice to Proceed.

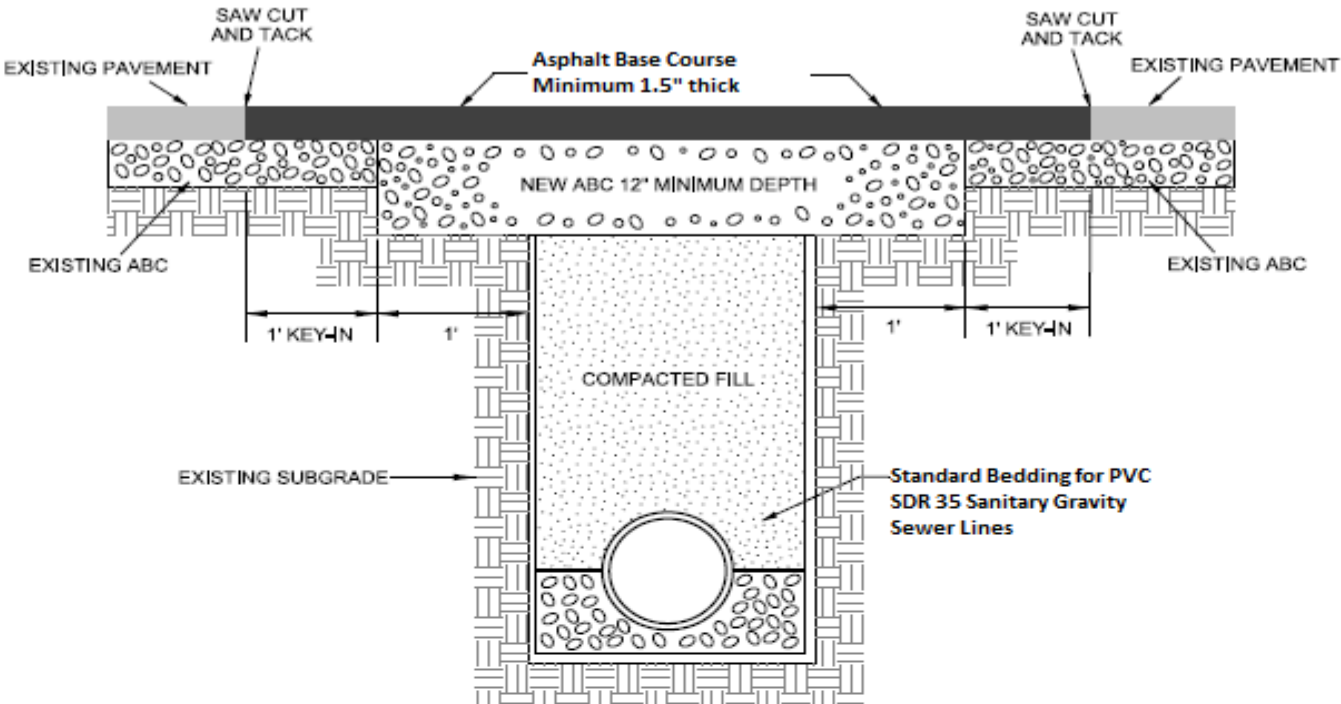
Liquidated Damages:

- a. The Contractor agrees to pay the owner \$300 per day in liquidated damages for each day beyond the period of performance.

Figure 1: Work Area Map



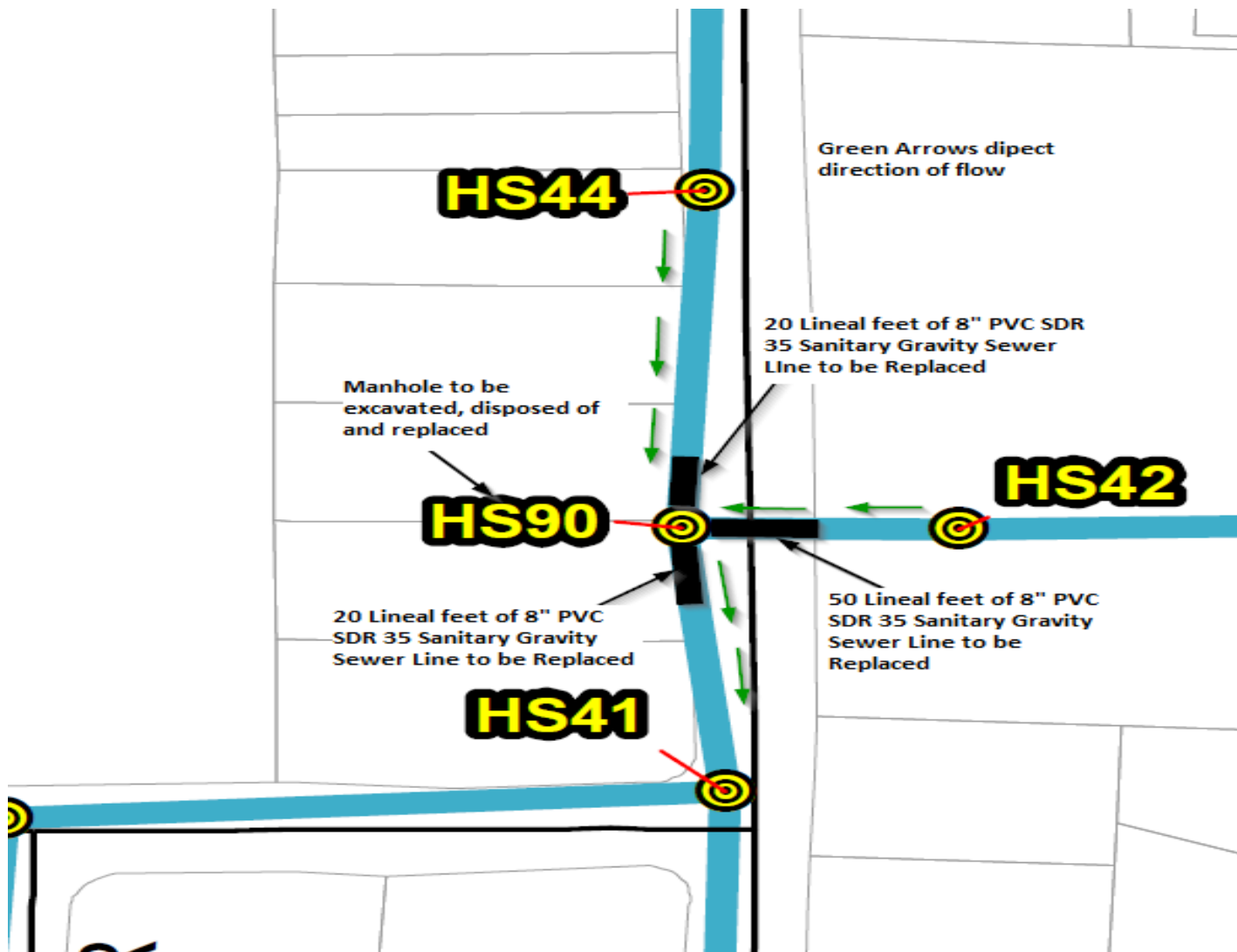
Figure 2: Pipe Bedding and Pavement Cross Section, Typical.



- NOTES:
- 1. THE PAVEMENT EDGE SHALL BE DEFINED BY A STRAIGHT EDGE FORMED BY A MACHINED SAW CUT.
 - 2. THE TRENCH SUBGRADE MATERIAL SHALL BE BACKFILLED WITH SUITABLE MATERIAL AND COMPACTED TO A DENSITY OF AT LEAST 95% OF THAT OBTAINED BY COMPACTING A SAMPLE OF THE MATERIAL IN ACCORDANCE WITH AASHTO T-99 AS MODIFIED BY NCDOT.
 - 3. THE FINAL 1' OF FILL SHALL CONSIST OF ABC MATERIAL COMPACTED TO A DENSITY EQUAL TO 100% OF THAT OBTAINED BY COMPACTING A SAMPLE OF THE MATERIAL IN ACCORDANCE WITH AASHTO T-80 AS MODIFIED BY NCDOT. BITUMINOUS BASE OR BINDER MAY BE SUBSTITUTED IF APPROVED BY TRANSPORTATION DIRECTOR OR DESIGNEE.
 - 4. THE ENTIRE THICKNESS/VERTICAL EDGE OF THE CUT SHALL BE TACKED.
 - 5. THE SAME DEPTH OF PAVEMENT MATERIAL WHICH EXISTS SHALL BE REINSTALLED, BUT IN NO CASE SHALL THE ASPHALT BE LESS THAN 3" THICK.
 - 6. THE ASPHALT PAVEMENT MATERIAL SHALL BE INSTALLED AND COMPACTED THOROUGHLY AND ROLLED WITH A SMOOTH DRUM ROLLER TO ACHIEVE A SMOOTH, LEVEL PATCH.

SHEET 1 OF 2		
City of Havelock Standard Detail		
REVISIONS	DATE: 8/2020	NOT TO SCALE
	DATE: 08/2023	
ASPHALT PAVEMENT PATCH AND RCP PIPE BACKFILL		

*Figure 3: Manhole and 8" Sanitary Gravity Sewer Line to be Replaced and Legend /
Measurements of 8" PVC SDR Gravity Sanitary Sewer Line are Approximate*



Legend

MAP 4

Sewer - Gravity Main

Diameter (Inch)

8

10

12

15

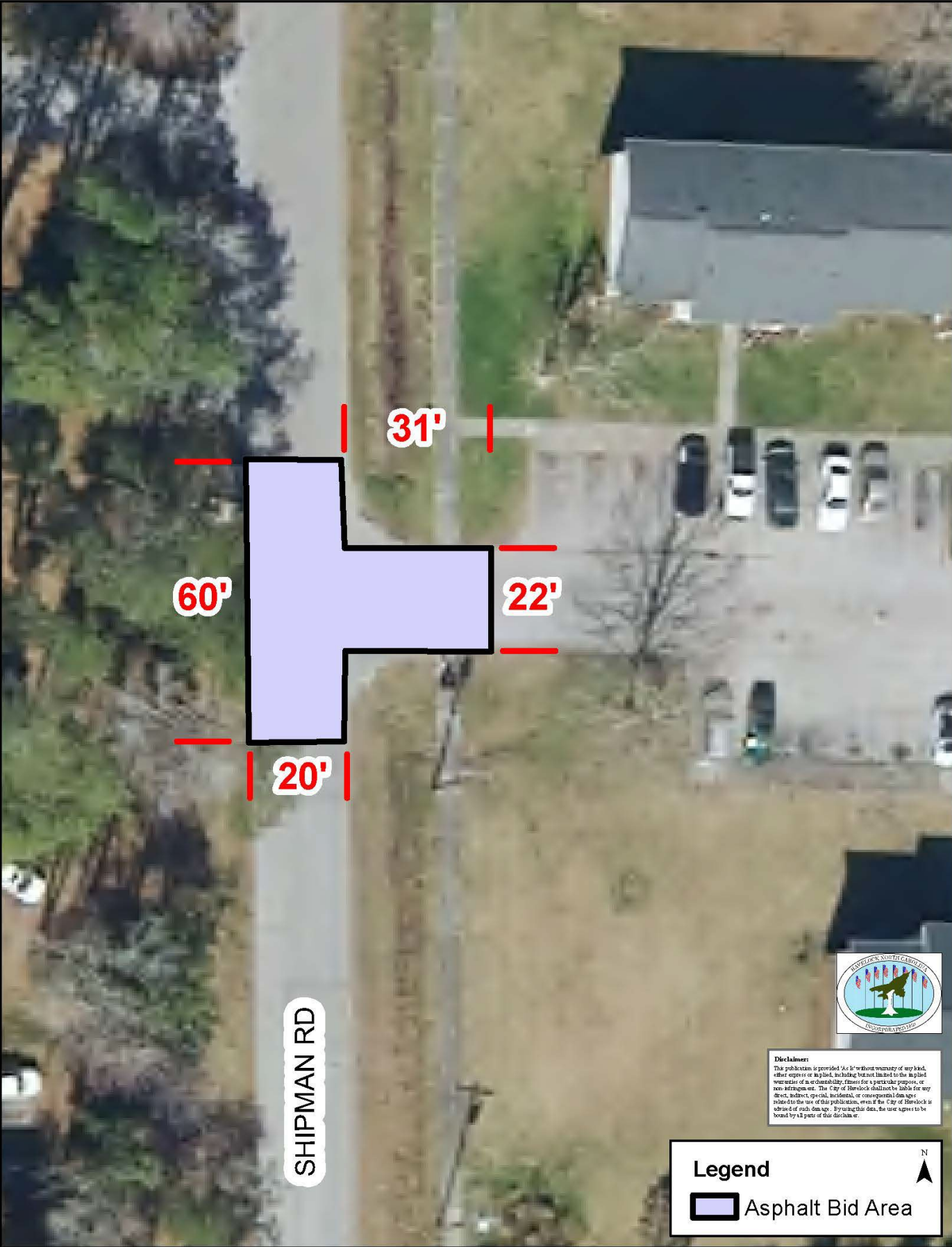
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Sewer - Force Main

Manholes



Figure 4: Asphalt to be Resurfaced / Measurements are Approximate



SHIPMAN RD

Legend

 Asphalt Bid Area

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Figure 5: Manhole Channeling

