

**BID FORM FOR FRANKLIN COUNTY SHERIFF'S OFFICE
OUTBUILDING WATER AND SEWER SERVICE INSTALLATIONS**

Contractor Name

Contractor Address

Contact Person

Contact Office Number

Contact Mobile Number

Authorized Contractor Representative

Title

Date

\$

(Amount in number form)

(Amount in written form)

ADDENDUM RECEIPT

Receipt of the following addenda to the Bidding Documents is acknowledged (initial each):

Addendum No. _____

Dated: _____

Initials: _____

Addendum No. _____

Dated: _____

Initials: _____

Addendum No. _____

Dated: _____

Initials: _____

Note: All requirements of these Addenda have been included in this submitted Proposal.

BID FORM

(Must be submitted with Bid)

Unit prices shall include the furnishing of all labor. Materials, suppliers, and services and shall include all items of cost, overhead and profit for the vendor and any Subcontractors involved, and shall be used uniformly without modification for either additions or deductions. The Unit Prices are established shall be used to determine the equitable adjustment of the Contract Price in connection with changes or extra work performed under the Contract. Failure to completely fill out all unit prices requested may result in bid rejection.

ITEM NO.	QUANTITY	UNIT TO BID BY	DESCRIPTION W/UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	ITEM COST
1.	<u>140</u>	<u>LF</u>	Water Service Line - 3/4" SDR 11 _____ Dollars _____ Cents Per LF (Linear Foot)	\$ _____	\$ _____
2.	<u>130</u>	<u>LF</u>	Sanitary Sewer Lateral - 6" SCH 40 _____ Dollars _____ Cents Per LF (Linear Foot)	\$ _____	\$ _____
3.	<u>1</u>	<u>EA</u>	Sanitary Sewer Cleanout Assembly (FSD) _____ Dollars _____ Cents Per EA (Each)	\$ _____	\$ _____
4.	<u>140</u>	<u>SF</u>	Asphalt Entrance Open Cut & Restoration _____ Dollars _____ Cents Per SF (Square Foot)	\$ _____	\$ _____
5.	—	—	_____ Dollars _____ Cents Per _____	\$ _____	\$ _____
6.	—	—	_____ Dollars _____ Cents Per _____	\$ _____	\$ _____
TOTAL BID \$				_____.	
Total Amount of Bid (Items ___ through ___) = \$ _____ (Written in Words)					

FRANKLIN COUNTY FISCAL COURT
RIVER BEND OFFICE PARK
LOT 1
0.78 ACRES

FRANKLIN COUNTY
MULTI-PURPOSE
BUILDING
(SHERIFF'S OFFICE)
974 RIVER BEND

EXISTING
WATER MAIN
& FIRE VAULT

EXISTING ASPHALT
PARKING LOT

PROPOSED
OPEN-CUT
DRIVEWAY
CROSSING

PROPOSED DOMESTIC
WATER LINE SERVICE
(APPROX. 140 LF)

EXISTING GRAVEL
PARKING LOT

PROPOSED 6" LATERAL
W/CLEAN OUT ASSEMBLY

130' +/-

EXISTING
METAL
POLE
BUILDING
F.F=797.0+/-

C.O.

SEWER CONNECTION
GR = 796+/-
FL = 791+/-

EXISTING
OVERHEAD
ELECTRIC
SERVICE

FRANKLIN COUNTY FISCAL COURT
RIVER BEND OFFICE PARK
LOT 2
0.95 ACRES

EXISTING 8" SEWER MAIN
MH

N 83° 54' 57" W 222.91'

EXISTING
FIRE STATION
PARKING LOT

DARBY SHIRE CIR

15' U.E.

25' U.E.

52' +/-

100' +/-

40'

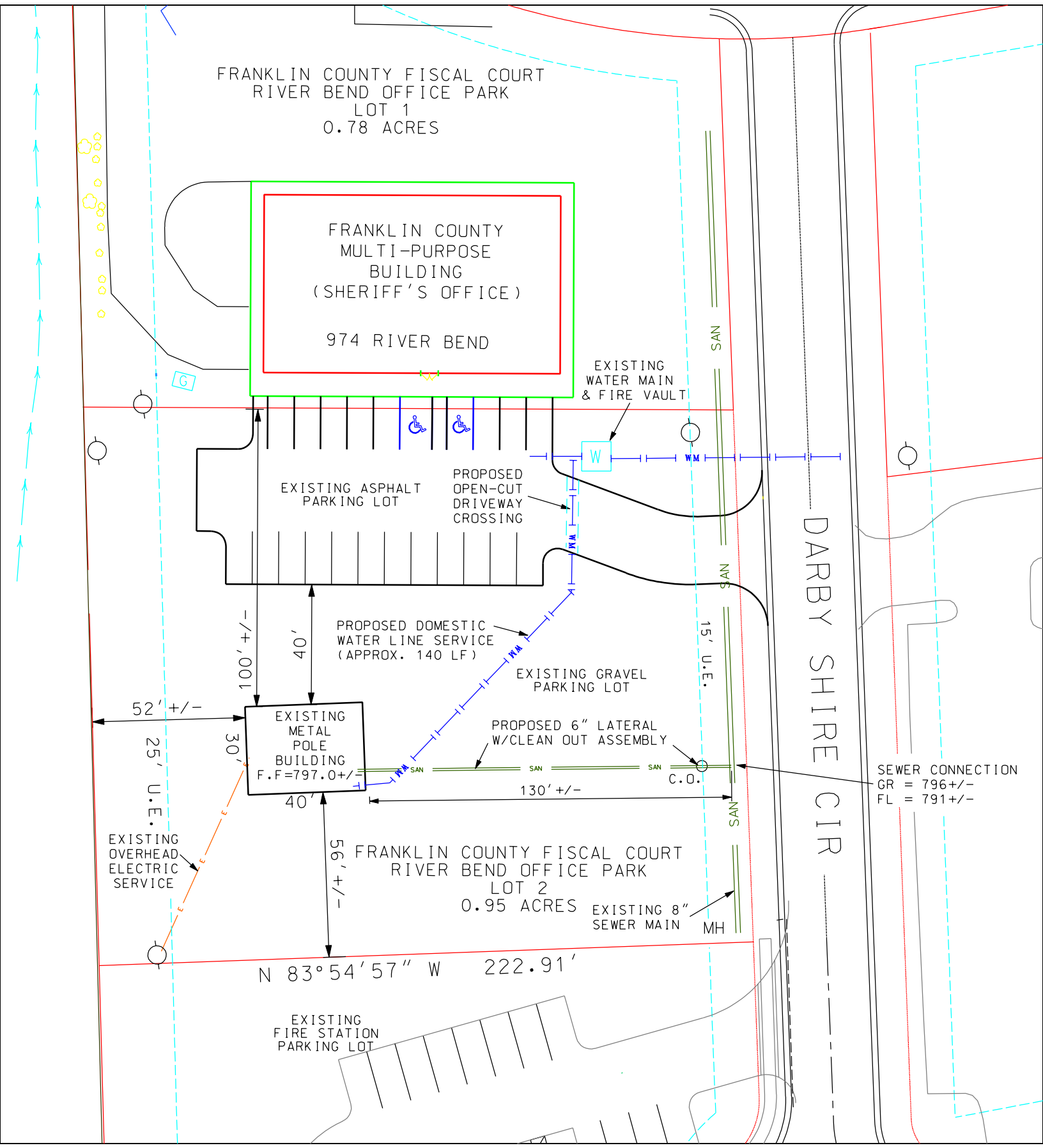
50' +/-

30'

40'

40'

6



FRANKLIN COUNTY SHERIFF'S OFFICE
OUTBUILDING UTILITY SERVICES SPECIFICATIONS

1. Install approx. 130 LF of SCH 40 PVC sewer service lateral
2. Install sanitary sewer service cleanout per Frankfort Sewer Department (FSD) standard drawing at edge of 15' Utility Easement.
3. All sewer installation work must meet local, State and Frankfort Sewer Department permitting and construction requirements.
4. Sewer main tap must be coordinated with and witnessed by FSD.
5. Install approx. 140 LF of 3/4" SDR 11 water service line with the tap tee located on the service line to the Sheriff's Office.
6. All water service installation must meet local and State Plumbing Code requirements.
7. Contractor is responsible for obtaining all necessary permitting for sanitary sewer and water service installations.
8. Contractor must have Kentucky licensed plumber status in good standing.
9. All trench backfill shall be clean gravel.
10. Water service installation requires open cut of driveway. This item must include the following:
 - Clean saw cut of necessary trench width across driveway (approx. 22' wide)
 - Gravel backfill
 - 3" conduit sleeve for 3/4" service line extended min. 12" beyond asphalt
 - 6" concrete cap
 - 3" Asphalt Surface

SECTION IV. - WATER SERVICE

D. SERVICE EXTENSIONS - SPECIFIC TYPES (CONTINUED)

The buried portion of a customer's water service from the meter to the point of consumption shall conform to appropriate plumbing standards. It is recommended that no smaller than 3/4" service lines be installed to insure adequate supply and that lines have at least 36" of cover to protect them from freezing. Installation of service line shall be in accordance with local and state plumbing codes.

Each service shall have a cut-off valve that is readily accessible for the customer's use, installed at or near the point where the service line enters a building or immediately inside the building wall.

(c) **Minor Subdivisions and Land Locked Property** – A minor subdivision as defined in the Frankfort and Franklin County Subdivision and Site Plan Regulations is a subdivision not requiring the dedication of streets or other public improvements. The subdivision consists of not over five lots including any remainder that will be retained by the Owner. Where an improved residential property or minor subdivision is located within a reasonable distance of, but not abutting a public road or a public water main extension, the Plant Board may allow such property to receive water service through a private service line installed within a private water easement so long as the following criteria are met:

- 1. The Plant Board has determined that the installation of a public water main is not in its best interest.**
- 2. Each lot to be served has been developed as a single family residence. The customer agrees that he/she, their assigns and heirs, will not develop the property beyond the single family residence. The customer agrees that he/she, their assigns and heirs, will not extend their service line to provide anyone else potable water service.**
- 3. The property to be served must have available to it a minimum 10 feet wide perpetual water service easement that permits the installation of a private water line extending from a public water main to the benefited property.**

GENERAL SPECIFICATIONS

- PVC sewer pipe shall be SDR 35 and shall conform to ASTM D3034. For bury depths greater than 15 feet, SDR 26 PVC pipe or ductile iron pipe (DIP) is required. DIP shall conform to ANSI A21.50 (AWWA C 150) latest revision. Pipe materials other than PVC or DIP must be approved by the Frankfort Sewer Department (FSD) prior to installation.
- Gravity lines, force mains and lateral lines must be encased in #9 crushed stone as shown on standard details. Top: 12 inches. Bottom and Sides: 6 inches. See Case I and Case II Backfill Detail, this sheet.
- Mylar sewer line identification tape is required for all sewer mains, manholes, and laterals.
- All sewer lines must be installed in a dedicated right-of way or sewer easement. The minimum easement width is 15 feet, with the main line centered in the easement. Easement documents must be prepared, reviewed and approved by the City Attorney. Easements shall be properly recorded, with a copy of the stamped documents provided to FSD. Easements are required for any sewer mains crossing through private property.
- A complete set of As-Built drawings shall be provided to the FSD after the construction has been completed.
- Each sheet of the As-Built drawings shall be sealed (or stamped), signed, and dated by a Professional Engineer licensed in the Commonwealth of Kentucky. Revisions to the As-Built drawings must be stamped, signed, and dated on each page.
- Buildings must be set-back from the sewer easement so the building foundation will not be undermined. The set-back must be greater than a 45-degree line from the edge of the trench at the pipe invert to its intersection with the foundation elevation.
- Sewers on 20% slope or greater shall be anchored securely with concrete (or equivalent) pipe anchors, see drawing 3 for detail.
- Aerial crossings, when necessary, shall be designed and constructed in accordance with Ten State Standards. Support shall be provided for all pipe joints. The supports shall be designed to prevent frost heave, overturning, and settlement. Precautions against freezing, such as insulation and increased slope, shall be provided. The impact of flood waters and debris shall be considered.
- The FSD requires that each lot have a separate lateral that does not cross into any other lots. The laterals must extend five (5) feet into the lot. Each lot must have a 6-inch double wye installed at the right-of-way line. The cleanout stub shall extend 3 to 5 feet above ground. See dwgs. 2 & 3 for details.
- After all installation and testing requirements are met and the easements are approved and recorded, the Director will allow the FSD to issue tap permits.
- The FSD tap permits are issued from the main office at 1200 Kentucky Avenue. The FSD will charge a capacity fee for each additional apartment unit, house, or building based on number and size of water meters on lot. See ordinance for details.
- The lowest floor of any structure to be provided service must be a minimum of one (1) foot higher than the rim elevation of the nearest sanitary manhole in accordance with City of Frankfort code of Ordinances, No. 52.04.E.3. If these requirements cannot be met, an ejector or grinder pump will be required to serve the structure. The pump installation must be approved by FSD prior to the sewer connection being permitted.
- After the plumber has connected the building lateral to the sewer, he shall contact the FSD for an inspection of the tie-in. The FSD personnel will place a sticker on the structure indicating "approved" or "not approved" and FAX the results to the City-County Planning Office.
- These drawings and specifications represent standards adopted by the Frankfort Sewer Department. These drawings are not a substitute for detailed design and engineering. Sewers shall be designed in accordance with the Recommended Standards for Wastewater Facilities, 1997 Edition (Ten States Standards). Construction plans and specifications must be approved by the Kentucky Division of Water (DOW). A construction permit must be obtained from DOW before sewers can be installed.
- Field changes to approved plans must be authorized by the Design Engineer and submitted to the FSD for review and approval.
- The FSD reserves the right to check for compliance with the Department's specifications and standards at any time during construction and prior to the Department's acceptance of the sewers. Failure to construct to FSD standards will result in removal and replacement at the contractor's expense.**

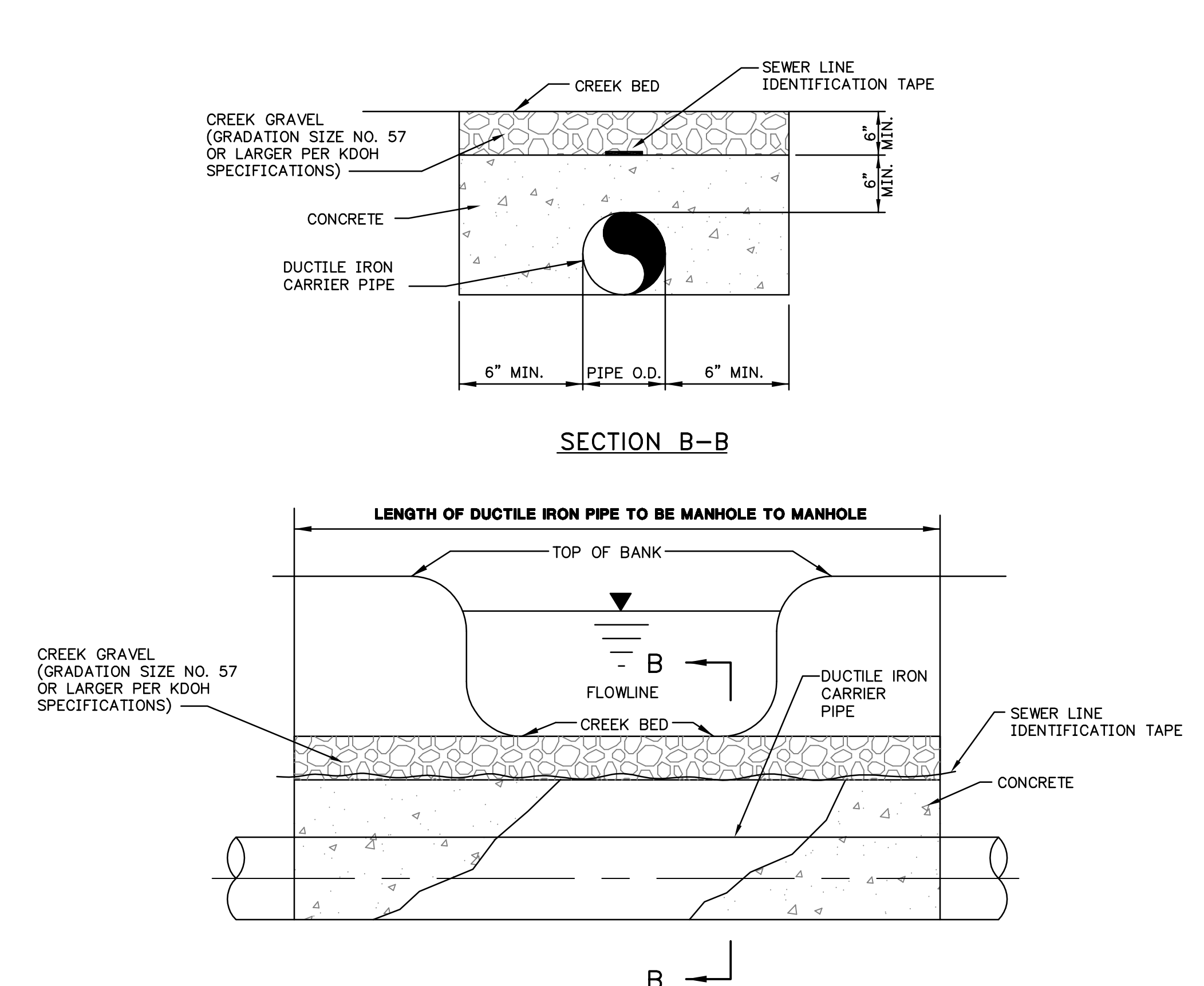
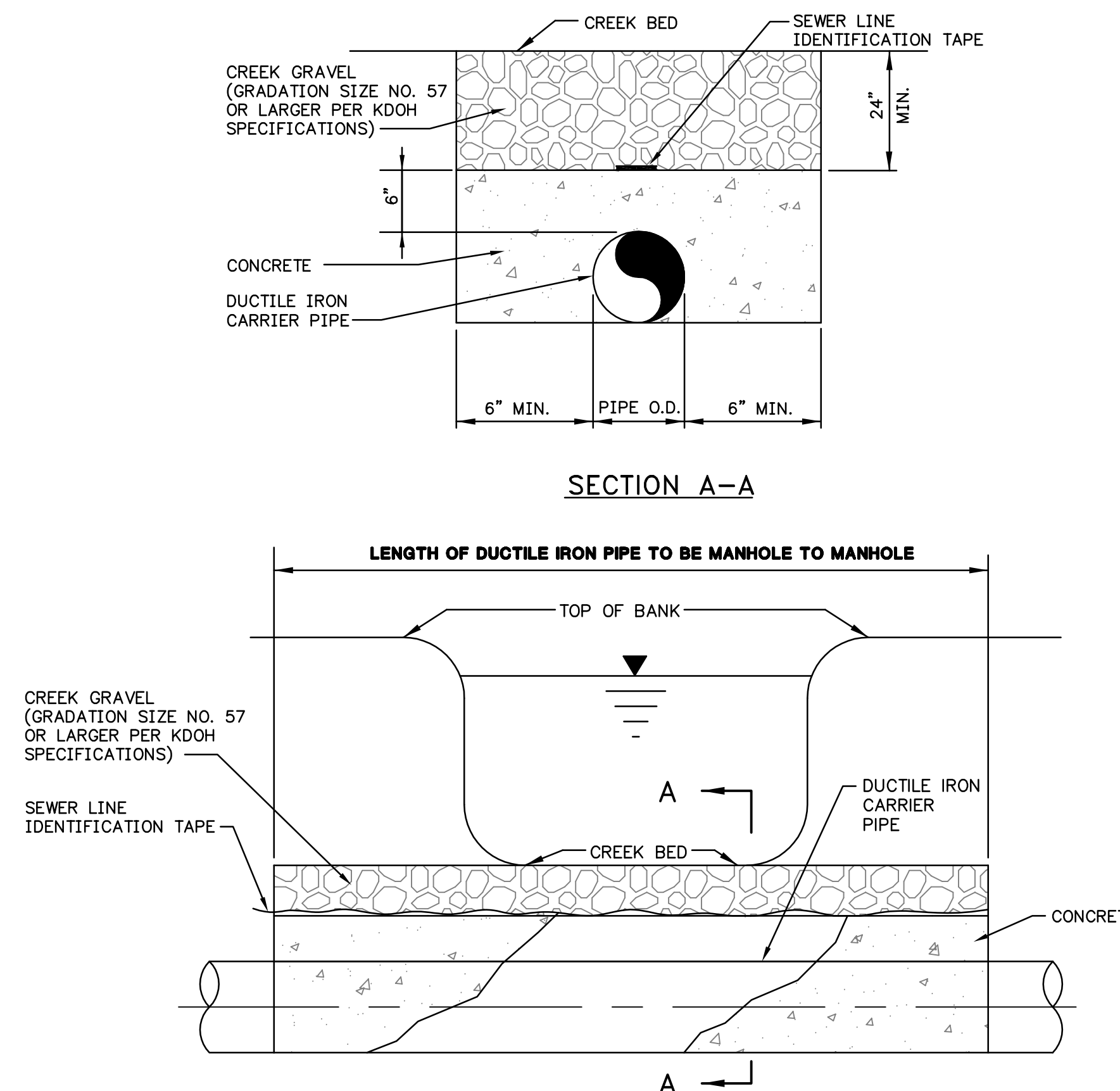
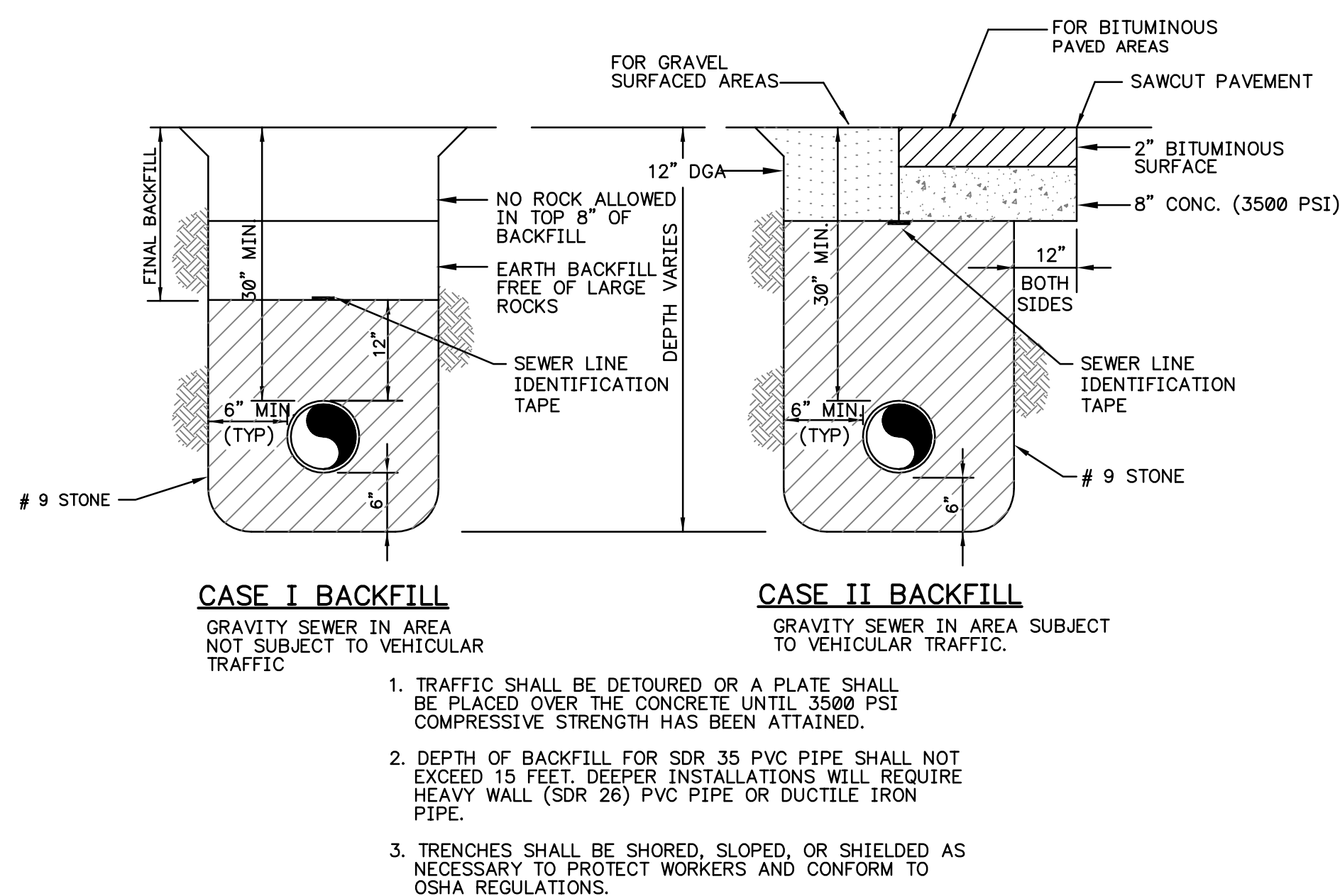
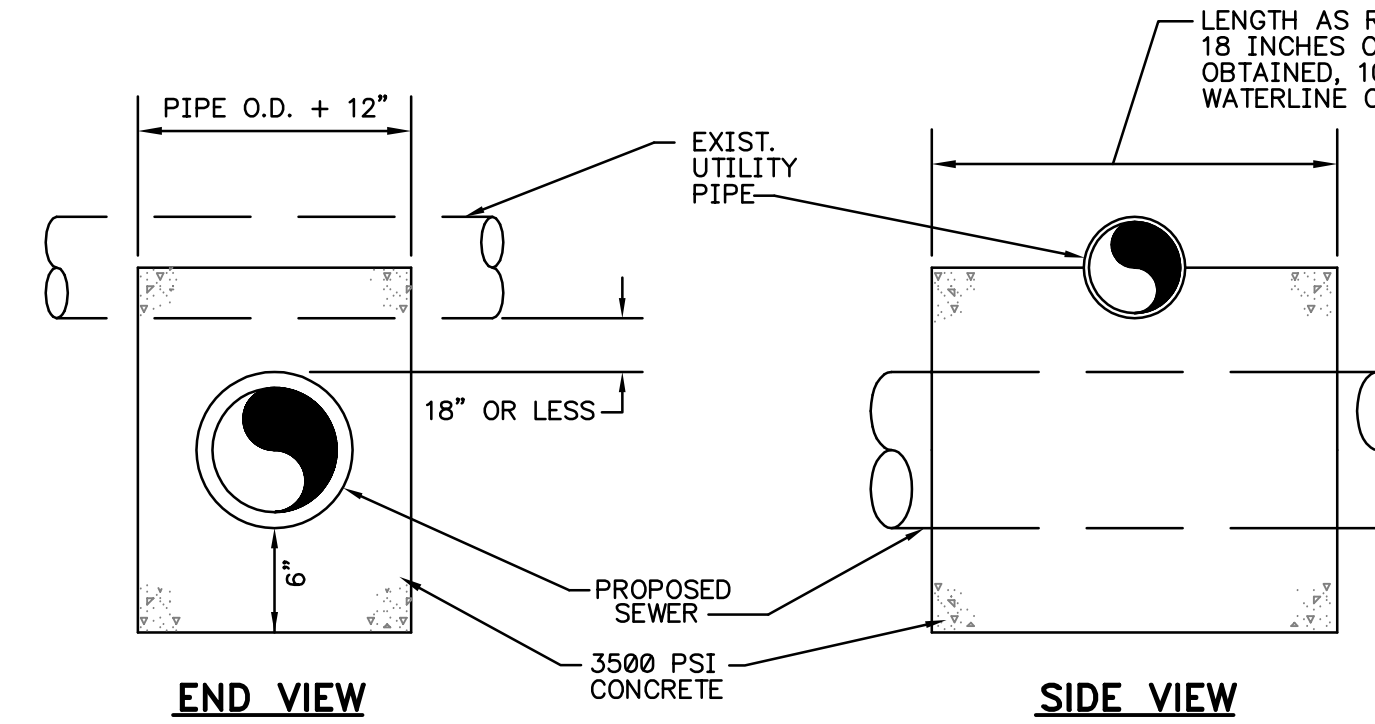
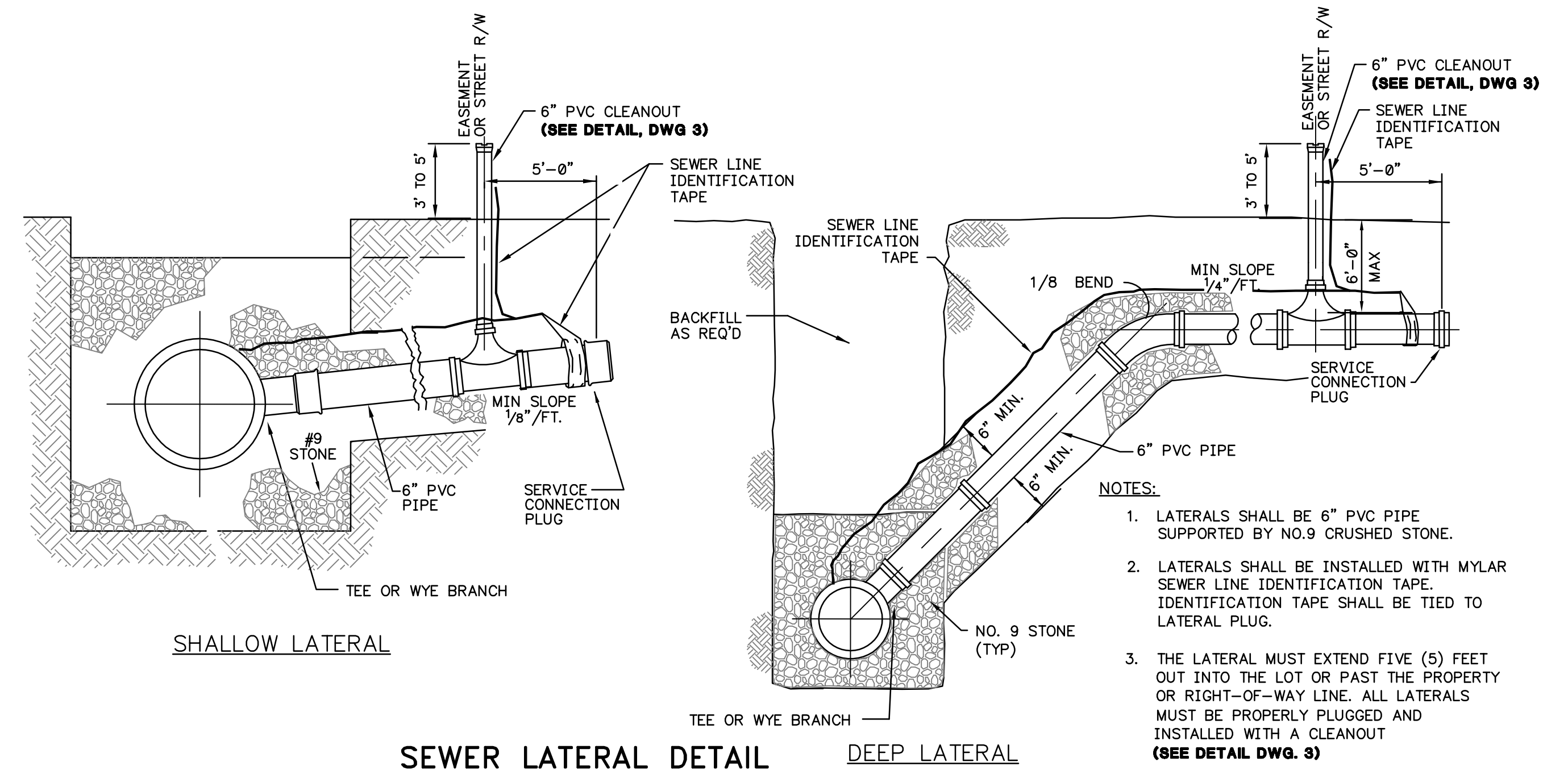
TESTING REQUIREMENTS

- The following tests shall be conducted on gravity sewer lines and manholes:
 - Visual inspection by FSD inspector
 - Video inspection
 - Mandrel deflection test (for PVC pipe)
 - Low pressure air test
 - Vacuum test for manholes
 Testing and inspection shall be conducted no earlier than 30 days after final trench backfill. As-built drawings shall be submitted for approval prior to testing. Any re-testing that is required will be subject to charges under the current Review/Inspection/Testing fee schedule as established by City of Frankfort Code of Ordinances No 52.04.G.
- After the punch list items are completed and the As-built drawings are received by the FSD, the FSD will televise the main lines to evaluate their condition. Repairs, if necessary, shall be made at the builder's expense prior to the acceptance of the sewers.
- The Mandrel (go/no-go) device shall be cylindrical in shape and constructed with nine (9) evenly spaced arms of prongs. The Mandrel dimension shall be 95 percent of the flexible pipe's published ASTM average inside diameter. Deflection shall not exceed 5 percent of the pipe's average inside diameter. The Mandrel shall be hand pulled by the contractor through all sewer lines.
- Low pressure air tests shall be conducted using equipment specifically designed and manufactured for the purpose of testing sewer lines using low pressure air. The equipment shall be provided with an air regulator valve or air safety valve so set pressure in the pipeline cannot exceed 8 psig. The test shall be made on each manhole-to-manhole section of piping after placement of the backfill. At least two minutes shall be allowed for the air pressure to stabilize in the section under test. After the stabilization period, testing will commence in accordance with UNI-B-6, latest revision.
- Manholes shall be vacuum tested after installation and after backfilling, with all connections in place. The vacuum test shall include testing of the seal between the cast iron frame and the concrete cone, slab or grade rings. Test equipment for manholes shall be top-mounted. A vacuum of 10 inches of mercury shall be drawn on the manhole. The manhole shall be considered to pass the vacuum test if it holds at least 9 inches of mercury for the following time durations:

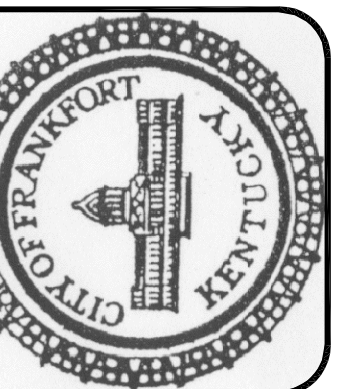
Manhole Depth	Time (Minutes)		
	4 ft. Dia.	5 ft. Dia.	6 ft. Dia.
20 feet or less	1	2	3
20.1 to 30 feet	2	3	4

If a manhole fails the vacuum test, it shall be repaired and retested.

- Acceptance testing shall not be scheduled until punchlist items are completed and the as-built drawings have been submitted to the Frankfort Sewer Dept. (FSD). The contractor must schedule the test 24 hours in advance and will be required to call the morning of the test to ensure FSD personnel are available to witness the test. The FSD inspector will walk the project first and check for compliance with the Department's Construction Specifications and Standards. **FSD personnel must witness all tests. The Director will review the test results.**
- All tests shall be performed by the contractor. The contractor shall provide all equipment, appurtenances, and labor necessary to properly conduct the tests. The contractor is responsible for the ultimate performance of the sewer line and manholes within the above test requirements.



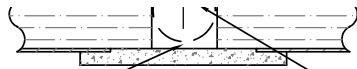
CITY OF FRANKFORT, KENTUCKY
SEWER DEPARTMENT
STANDARD SANITARY SEWER CONSTRUCTION DETAILS



SCALE: N.T.S.
DATE: JANUARY 2010
JOB NO.:
DESIGNED:
DRAWN:
CHECKED:
Q/C:
OWNER APPROVAL:
BY:
TITLE:
REVISIONS:
NO. DATE:
ISSUED MAY 2001
R-1 MARCH 2004
R-2 APRIL 2007
R-3 JANUARY 2010

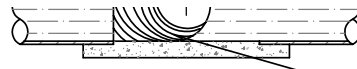
DRAWING:
G2
OF 3

Ø' TYPICAL
Ø' MAXIMUM



**SECTIONAL ELEVATION
STEP TWO**

REMOVE ALL BENCH AND FLOWLINE
CONCRETE MATERIAL FROM NEW CORE
HOLE TO EXISTING FLOWLINE



**SECTIONAL ELEVATION
STEP THREE**

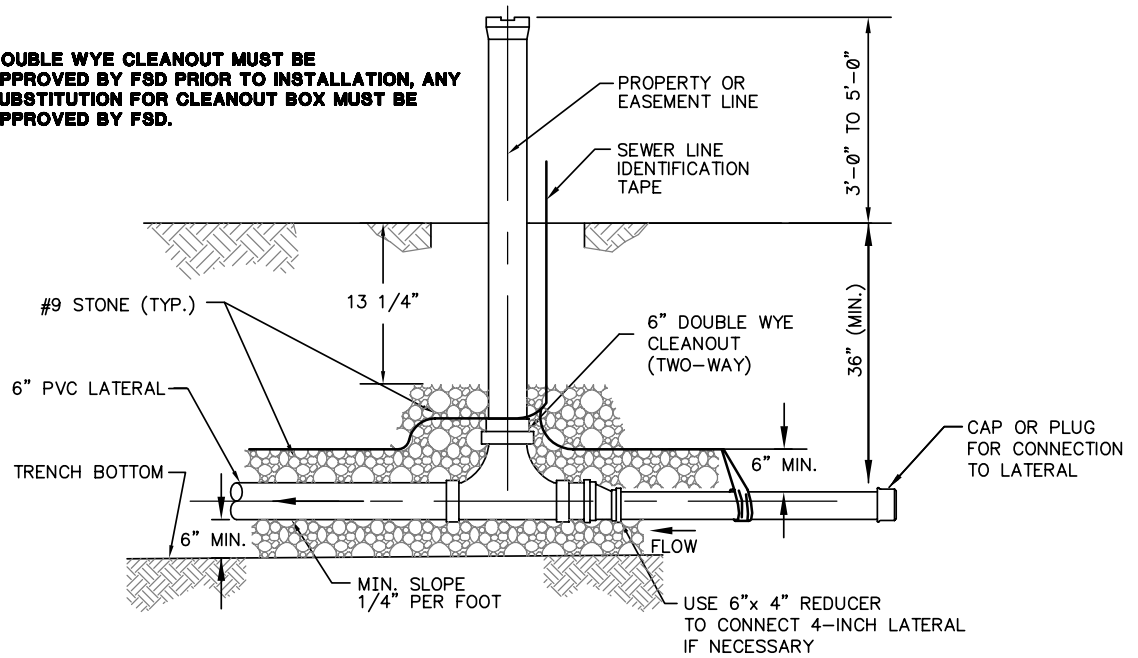
CONSTRUCT FLOWLINE AND
BENCHING, REPAIR ANY OTHER
FLOWLINE AND BENCH AREAS
DAMAGED DURING CORE DRILL
AND CONCRETE REMOVAL

CONNECTION TO EXISTING MANHOLE DETAIL

N.T.S.

NOTE:

**DOUBLE WYE CLEANOUT MUST BE
APPROVED BY FSD PRIOR TO INSTALLATION, ANY
SUBSTITUTION FOR CLEANOUT BOX MUST BE
APPROVED BY FSD.**



CLEANOUT DETAIL

NTS

PROPOSED CENTERLINE OF NEW MANHOLE

