

SANITARY SEWER STANDARDS
URBANA & CHAMPAIGN SANITARY DISTRICT
AND
AFFILIATED COMMUNITIES
CHAMPAIGN
URBANA
SAVOY

Prepared by:
Intergovernmental
Joint Sanitary Sewer Technical Committee
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Introduction

The Intergovernmental Agreement Regarding Sanitary Sewers, which was adopted in 1992 by the Urbana & Champaign Sanitary District (District), the City of Champaign, City of Urbana and Village of Savoy, provided for the creation of a Sanitary Sewer Technical Committee charged with the responsibility of coordinating and implementing certain responsibilities set forth in that Agreement. One of those responsibilities is to control connections to, and set standards for construction of, all municipal sanitary sewer systems tributary to the District. To that end, the Technical Committee adopted a set of standards in December, 1994.

This document represents the latest revision to those 1994 standards, incorporating policy and technical changes that expand and clarify the practices and requirements that apply to all sanitary sewers within the District.

It is the Sanitary Sewer Technical Committee's intent through these standards that it is clear to the development, architectural, and engineering community what the District and each community's standards are. This will result in consistent plan and specification submittals and simplify installation methods and expectations for contractors.

Urbana & Champaign Sanitary District

By: 
Executive Director

City of Champaign, Illinois

By: 
City Engineer

City of Urbana, Illinois

By: 
Public Works Director

Village of Savoy, Illinois

By: 
Public Works Director

SANITARY SEWER STANDARDS

100.00 PIPE MATERIALS

Pipe materials used for sanitary sewers shall conform to the following materials which are expressly manufactured for transmitting sanitary sewage and shall comply with requirements of the Illinois Environmental Protection Agency:

SDR 26(minimum thickness) Solid Wall PVC pipe per ASTM D-3034 (4-inch through 15-inch), SDR 26 (minimum thickness) Solid Wall PVC pipe per ASTM DF679 (18-inch through 60-inch), PVC profile pipe (18-inch diameter and larger) per ASTM F949 or ASTM 1803, centrifugally-cast fiberglass-reinforced polymer mortar pipe per ASTM D3262 (18-inch through 60-inch), ductile iron per AWWA C150, and others approved by the Executive Director of the UCSD with the concurrence of the approving authority.

Ductile iron pipe shall have an interior coating to protect against corrosion consisting of Protecto 401 ceramic epoxy or polyethylene lining. Interior coating shall have a nominal thickness of 40 mils. Polyethylene lining shall be in accordance with ASTM D1248 and be heat fused. For trenchless construction, materials and methods will be approved on a case-by-case basis by the approving authority.

110.0 MANHOLES

Manholes shall comply with minimum standards in the "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS latest edition" and shall be a minimum of 48 inches in diameter. An external manhole chimney seal shall be required on all new manholes.

111.0 DROP MANHOLE CONNECTIONS

All new drop manholes shall be a minimum of 5 foot diameter. Drop manhole installations, for 8" collector sewers and service lines connecting to 5 foot or greater diameter manholes, shall be installed as internal to the manhole structure. Drop connections to existing manholes less than 5 foot diameter shall be external and shall comply with the appropriate provisions and details in the "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, latest edition". A minimum of a five-foot diameter manhole shall be required for internal drop assemblies. Internal drop assembly shall be a RELINER® drop bowl system or engineer approved equal. The drop bowl system shall include a drop bowl assembly, pipe clamps, pipe, and pipe fittings. Pipe and pipe fittings shall be SDR 26 PVC pipe in accordance with Section 100. Drop bowl system shall be installed in accordance with manufacturer's recommendations. Drop connections over 8" in diameter may be internal or external as determined by the approving authority. The location and details of proposed internal drop assemblies must be approved by the approving authority prior to initiation of construction.

112.0 TERMINAL MANHOLE CONNECTIONS

Manholes at the upstream end of dead-end lines shall be constructed so that influent service connections are only attached to the manhole at the upstream side. Further, there shall be a minimum of 4 inches of elevation difference from the invert of the service connection to the invert of the outlet pipe. There shall also be a concrete channel constructed from the invert of the service connection to the channel of the bench outlet pipe. Details of the connection shall be approved by the appropriate agency prior to initiation of construction.

113.00 CONNECTIONS TO EXISTING MANHOLES

New connections made to any existing manhole shall be angled in the direction of flow, and shall be accomplished by core drilling through the wall of the manhole and installing an appropriately sized connector boot, such as *KOR n SEAL®* by NPC Inc., or approved equal.

114.0 MANHOLE REQUIREMENTS

Manholes constructed shall conform to the "Sanitary Sewer Manhole Detail" attached to these Sanitary Sewer Standards.

120.00 SERVICE LATERALS

The minimum inside diameter of new service laterals or clean-outs shall be 4-inches. No reduction in new service lateral pipe diameter is permitted from the structure to the public sanitary sewer. Existing 4 inch service laterals may be lined one time, resulting in a final internal diameter less than 4 inches.

Pipe materials used for sanitary sewer laterals shall conform to the following materials which are expressly manufactured for transmitting sanitary sewage:

Solid wall PVC with a minimum wall thickness equivalent to SDR 26 or Schedule 40 which meets ASTM D-3034, D-2241, or D-2665; and ductile iron per AWWA C150. Ductile iron pipe shall have an interior coating to protect against corrosion consisting of Protecto 401 ceramic epoxy or polyethylene lining. Interior coating shall have a nominal thickness of 40 mils. Polyethylene lining shall be in accordance with ASTM D1248 and be heat fused.

PVC Pipe joints for SDR-26 shall be push-on-type with a bell-end groove to receive a synthetic rubber gasket. Solvent welded joints are not allowed for SDR-26. The joint shall be made in accordance with ASTM D-3212.

Schedule 40 PVC joints can be solvent-cemented. The cement shall meet the requirements of ASTM D-2564.

If laterals are constructed of 6-inch pipe, they shall have a minimum slope of 1/8-inch per foot. 4-inch pipe shall have a minimum slope of 1/4-inch per foot. All laterals shall be installed at a depth to serve the building it is designed to serve, but shall have a minimum cover of 42-inches unless otherwise approved on a case-by-case basis by the approving authority.

The end of the pipe shall be at no deeper than 7 feet below the existing grade and shall be staked with a 2 x 4 wood leader which extends to 1-ft above the ground.

Manholes are required on any service lateral that exceeds 6-inches in inside diameter. Manholes shall comply with section 110.00

VAC-A-TEE® by LMK shall be acceptable for clean-outs on sewer lateral lines.

Each service connection shall be installed to the property line and shall be installed no closer than five-feet to any property corner.

124.00 PIPEBURSTING SEWER LATERAL REPLACEMENT

1. CONTRACTOR'S QUALIFICATIONS

The Contractor shall be trained and certified by manufacturer of the pipe bursting system. A copy of the contractor's certification and training records shall be submitted to approving authority.

Field joining of HDPE pipe shall be performed by competent personnel trained in the use of butt-fusion equipment and recommended methods for new pipe connections. Personnel directly involved with installing the new pipe shall receive training in the proper methods for handling and installing the HDPE pipe. All training shall be performed by a qualified representative of the manufacturer.

2. MATERIALS

Polyethylene Plastic Pipe shall be high-density polyethylene pipe and meet the applicable requirements of ASTM F714 Polyethylene (PE) Plastic Pipe (SDR-PR) Based on Outside Diameter, ASTM D1248, ASTM D3550.

All pipe installed shall be the same diameter or larger than the original sewer lateral and offer the same flow capacity. All pipe shall be made of virgin material. The pipe shall be homogenous throughout and shall be free of visible cracks, holes, foreign material, blisters, or other deleterious faults.

The minimum wall thickness of the polyethylene pipe shall be SDR-17. Minimum inside diameter shall be 4-inches.

If coiled HDPE pipe is utilized contractor shall provide equipment to straighten and reround coiled pipe to meet or exceed ASTM D-2513 quality requirements.

3. EQUIPMENT

BURSTING TOOL: The pipe bursting tool shall be designed and manufactured to force its way through existing pipe materials by fragmenting the pipe and compressing the old pipe sections into the surrounding soil as it progresses. The bursting unit shall generate sufficient force to burst and compact the existing pipe line. The pipe bursting tool shall be properly sized for the diameter of pipe to be rehabilitated.

The remotely controlled bursting unit shall pull the HDPE pipe with it as it moves forward. The bursting head shall incorporate a shield/expander to prevent collapse of the hole ahead of the PE pipe insertion. The bursting action of the tool shall increase the external dimensions sufficiently, causing breakage of the pipe at the same time expanding the surrounding ground. This action shall allow the HPDE pipe to be installed free of obstructions and damage.

The contractor shall provide a system of guide pulleys and bracing to minimize cable contact with the existing sewer facilities.

4. CONSTRUCTION METHODS

The Contractor shall install all pulleys, rollers, bumpers, alignment control devices and other equipment required to protect existing facilities and to protect the pipe from damage during installation. Lubrication may be used as recommended by the manufacturer. Under no circumstances shall the pipe be stressed beyond its elastic limit. The pipe bursting unit is to be centered in the pipe to be burst.

The polyethylene pipe shall be assembled and joined at the site using the butt-fusion method to provide a leak proof joint. Butt-fusion joints shall be in accordance with ASTM Standard F2620. Threaded or solvent-cement joints and connections are not permitted.

All equipment and procedures used shall be used in strict compliance with the manufacturer's recommendations. Fusing shall be accomplished by personnel trained by a manufacturer of HDPE pipe and/or fusing equipment.

The butt-fused joint shall be true alignment and shall have uniform roll-back beads resulting from the use of proper temperature and pressure. The joint shall be allowed adequate cooling time before removal of pressure. The fused joint shall be watertight and shall have tensile strength equal to that of the pipe.

All defective joints shall be cut out and replaced at no additional cost. Any section of the pipe with a gash, blister, abrasion, nick, scar, or other deleterious fault greater in depth than ten percent (10%) of the wall thickness, shall not be used and must be removed from the site. However, a defective area of the pipe may be cut out and the joint fused in accordance with the procedures stated above. In addition, any section of the pipe having other defects such as concentrated ridges, discoloration, excessive spot roughness, pitting, variable wall thickness or any other defect of manufacturing or handling shall be discarded and not used.

The ends of the HDPE shall be connected to existing or new pipes using a coupling device. The new connection shall not compromise the structural stability or previous rehabilitation efforts in the mainline sewer serving the lateral. A Fernco Stock or Mission Standard coupling are acceptable for coupling the new HDPE to existing clay, concrete, or cast iron pipe for buried applications. Mission or Fernco couplings shall have rubber sleeves that conform to ASTM C 425 and ASTM C 1173 with 316 Series stainless steel clamps with nut and bolt or worm drive take-up. A bag of premixed concrete shall be installed under each Mission or Fernco coupling.

An ISCO Standard Coupling to IPS PVC or Poly-Cam Transition Coupling shall be used for coupling the new HDPE pipe to PVC pipe.

After all connections are made and inspected by the approving authority, the access pits shall be backfilled.

5. INSPECTION

The Contractor shall provide internal pipe televising inspection for the sewer lateral prior to the pipe bursting activities and after the pipe bursting activities have been completed. A copy of the internal pipe televising inspection shall be available to the approving authority for their review for a period of 3 years after the installation is completed. Televising videos shall be in a MPEG-2 digital video format and shall be stored on CD or DVD discs. Discs shall be clearly labeled with the address of the installation, date performed, and contractor performing the work.

All pipe connections made must be inspected prior to backfilling and resurfacing.

125.0 CURED-IN-PLACE SANITARY LATERAL LINING STANDARDS

1. CONTRACTOR'S QUALIFICATIONS

The Contractor shall be trained and certified by manufacturer of the cured-in-place sanitary sewer lateral lining system. A copy of the contractor's certification and training records shall be submitted to approving authority.

2. MATERIALS

The tube shall consist of one or more layers of flexible needled felt or an equivalent non-woven or woven material or a combination non-woven and woven material meeting the requirements of ASTM F1216, Section 5.1.

The CONTRACTOR shall furnish and install a general purpose, unsaturated, styrene-based, thermoset resin and catalyst system or epoxy resin and hardener specifically designed for lining sewers that provides minimum strengths as specified below.

Strength	Minimum	Applicable ASTM Test
	(psi.)	
Tensile Strength	3,000	D 638
Flexural Stress	4,500	D 790
Flexural Modulus Elasticity	250,000	D 790

All other material properties of the resin system shall meet the requirements of ASTM F1216, Section 5.2.

The minimum thickness of the liner shall be 3.4 millimeters (0.134 inches).

3. INSTALLATION

Cured-in-place sanitary sewer lateral lining is only permitted on 4-inch and larger diameter sanitary sewer laterals. Cured-in-place sanitary lining shall not be permitted for less than 4-inch diameter sanitary sewer laterals. Contractor shall field verify the diameter of the lateral and report the diameter to the approving authority prior to commencement of any work.

The installation of the cured-in-place liner shall be in accordance with ASTM F 1216.

It shall be the responsibility of the Contractor to remove all internal debris from the lateral line. Internal debris consists of any material that obstructs the original pipeline and prevents the installation of the liner. Example of debris includes solids, crushed or collapsed pipe, roots, grease and other miscellaneous materials.

The Contractor shall perform the resin impregnation of the tube in accordance with ASTM F 1216.

The "wet out" tube shall be inserted through an access point by means of an inversion process and the application of air pressure or hydrostatic head sufficient to fully extend it to the public sanitary sewer. The tube shall be inserted into the inversion standpipe with the impermeable plastic membrane side out. At the other end of the inversion standpipe, it shall be turned inside out. The inversion head shall be adjusted to provide sufficient pressure or height to cause the impregnated tube to invert from and hold the tube tight to the pipe wall. Care shall be taken during the inversion so as not to over-stress the felt fiber.

The use of lubricant is required during the inversion procedure. The methods and materials used for lubrication shall be in accordance with ASTM F 1216, Section 7.5.

Before inversion begins, the Contractor shall obtain from the manufacturer the minimum pressure required to hold the tube tight against the existing conduit and the maximum allowable pressure so as to not damage the tube. Once the inversion process begins, the Contractor shall maintain the pressure between the minimum and maximum pressure until the completion of the inversion process. If the pressure deviates beyond the limits of the minimum and maximum pressures, the Contractor shall remove the installed tube from the existing conduit.

The Contractor shall perform the curing of the inverted tube in accordance with ASTM F 1216, Section 7.6.

Initial cure shall be deemed to be completed when inspection of the exposed portions appear to be hard and sound or the remote temperature sensor indicates that the temperature is of a magnitude to realize an exotherm or cure in the resin. The cure period shall be of a duration recommended by the resin manufacturer, as modified for the process, during which time the recirculation of the water and cycling of the heat exchanger continues to maintain the temperature.

Steam curing is allowed and shall follow Section 7.6.2 and Section 7.6.3 of ASTM F1216.

The finished liner shall be continuous over the entire length of an inversion run and be as free as commercially practicable from visual defects such as foreign inclusions, dry spots, pinholes and delaminations.

After sewer lateral cured-in-place sewer lining is completed and inspected by the approving authority, the access pit shall be backfilled.

All pipe connections made must be inspected prior to backfilling and resurfacing.

4. CONNECTION TO PUBLIC SEWER

The cured-in-place liner shall not be allowed to protrude into the public sanitary sewer. Contractor shall verify by television inspection that the cured-in-place liner does not protrude into the public sanitary sewer. Contractor shall provide photos or video of the lateral liner connection to the public sewer to the approving authority. Contractor shall be responsible for removing any protruding cured-in-place liner in the public sewer and all costs associated with that work.

5. INSPECTION

The Contractor shall provide internal pipe televising inspection for the sewer lateral prior to the cured-in-place lining activities and after the sewer lining activities have been completed. A copy of the internal pipe televising inspection shall be available to the approving authority for their review for a period of 3 years after the installation is completed. Televising videos shall be in a MPEG-2 digital video format and shall be stored on CD or DVD discs. Discs shall be clearly labeled with the address of the installation, date performed, and contractor performing the work.

130.00 PIPE BEDDING, HAUNCHING & INITIAL BACKFILL

Material and requirements for pipe bedding, haunching, and initial backfill to 12-inches above the top of the pipe shall be in accordance with the "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS latest edition. Previously excavated material is not an allowable material, unless the material has been tested, at intervals and frequencies acceptable to the approving authority, by a certified laboratory and shown to meet the gradation requirements for one of the specified aggregate materials.

140.00 PIPE CONNECTIONS

141.00 WYES

Sewer wye material must comply with Section 100.00, must comply with appropriate provisions of the "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS latest edition" and shall be encased in granular bedding conforming to Section 130.00,

142.0 CONNECTIONS TO EXISTING SEWERS

If a connection is to be made where there is no wye, and the existing piping is smaller than 12 inches in diameter, a section of pipe shall be removed and a wye inserted with pipe couplings, conforming to Section 143.00, and new sections of pipe as needed. New connections to existing piping 12 inches in diameter or larger shall be made by core drilling the existing pipe and installing a flexible connector assembly such as *Kor-N-Tee Lateral Pipe Connectors by NPK* or Engineer approved equal.

LMT™ (Lined Main Tap™) Saddle by LMK or Engineer approved equal shall be used for all connections to existing clay sewer pipes that have been rehabilitated using the cured-in-place sewer lining technology. Kor-N-Tee Lateral Pipe Connectors by NPK or Engineer approved equal shall be used for all connections to existing concrete sewer pipes that have been rehabilitated using the cured-in-place sewer lining technology.

Kor-N-Tee Lateral Pipe Connectors or LMT™ Saddle shall be properly supported in a granular base to minimize settlement.

143.00 PIPE COUPLINGS

Pipe couplings shall be non-shear type and conform to the applicable portions of ASTM C-425, C-443, C-564, C-1173, D-5926 and D-1869. Pipe couplings shall be Fernco 5000 Series Strong Back Couplings or Engineer approved equal. They shall be made of elastomeric polyvinyl chloride with a 0.012-inch thick 300 series stainless steel shear ring, shall be specifically sized to fit the outer diameter of the pipes being joined, and shall have stainless steel take-up clamps to fit the appropriate outer diameter of the coupling. The take-up clamps shall be tightened to the manufacturers recommended torque value and the joints tested in accordance with Section 160.00, and the manufacturer's recommendations. Testing may be waived at the discretion of the approving authority, provided that the installation passes visual inspection. After the connection has been inspected, tested where required, and approved by the approving authority, the entire connection shall be encased in granular fill to a minimum of 6 inches all around.

150.00 BACKFILL

Where the inner edge of the trench is within 2 feet of the edge of the pavement, curb, gutter, curb and gutter, stabilized shoulder or sidewalk, the sewer trench must be backfilled with CLSM (controlled low strength material) meeting the approving authority's specifications, or granular trench backfill, placed in uniform layers not exceeding 6 inches thick (loose measure) and compacted to 95% of Standard Proctor unless flowable fill is used, in which case, the fill shall be designed to have a compressive strength between 100 to 200 psi. Backfill requirements shall conform to agency with jurisdiction over right-of-way or easement where sewer is installed.

Jetting and water-soaking is not allowed.

Outside of the pavement area, native soil may be returned to the trench, in accordance with the requirements of "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", but the developer and/or contractor is responsible for repair of all settlement which occurs.

160.00 TESTING

Testing shall comply with provisions of the "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS latest edition" with the following exceptions: 1) the maximum leakage shall be 200 gpd/in. dia./day/mile of pipe instead of 240, 2) all reaches shall be tested, and 3) all manholes shall be vacuum tested in accordance with ASTM C1244-05a.

170.00 MANDREL TEST

The sewer must be capable of passing a two-foot long cylinder, which has a diameter 1 inch less than the inside diameter of the pipe being tested.

180.00 PAVEMENT REPAIRS

Pavement repair requirements shall conform to agency with jurisdiction over right-of-way or easement where sewer is installed.

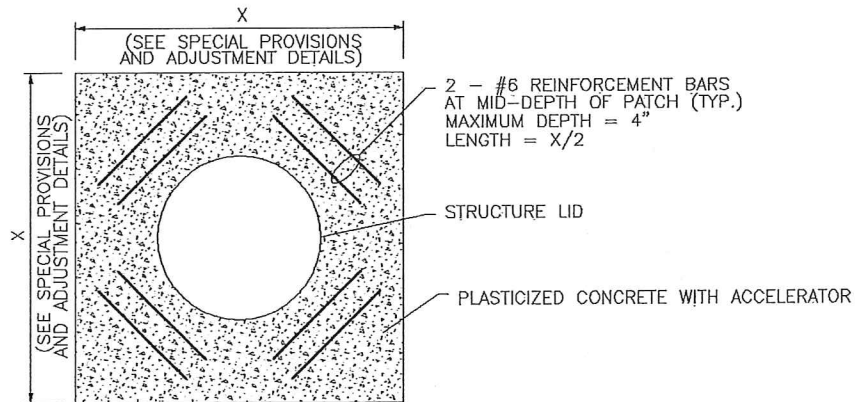
200.00 Manhole Adjustments in Paved Areas

On road reconstruction and resurfacing projects sanitary manhole frames shall be adjusted to new pavement grades. Work shall include saw full depth pavement saw cutting, full depth pavement removal, excavation, removal and disposal of damaged or deteriorated grade adjustment rings, removal and storage of manhole frame and cover, replacement of damaged or deteriorated grade adjustment rings, installation of salvaged manhole frame and cover, and placement of plasticized concrete patch with reinforcement bars. See manhole frame adjustment detail below.

On pavement preservation and maintenance projects sanitary manhole frames and covers shall be covered or otherwise protected during application of the preservation or maintenance product. After the preservation or maintenance project is completed the protective covering over the manhole frame shall be removed so that access is restored to the manhole.

The local agency performing the reconstruction, resurfacing, pavement maintenance, or pavement preservation project may seek payment from the agency that owns the sanitary manhole for the manhole adjustment costs. If the condition of the sanitary manhole frame and cover is in poor condition or does not meet current standards the owner of the sanitary manhole shall provide a new frame and cover to the local agency performing the reconstruction or resurfacing work.

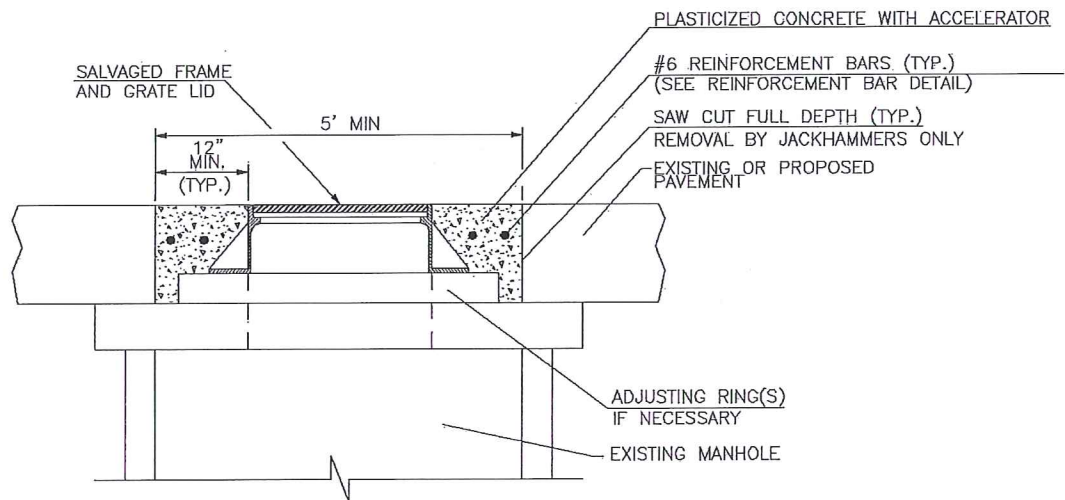
No external chimney seal is required for manhole adjustments.

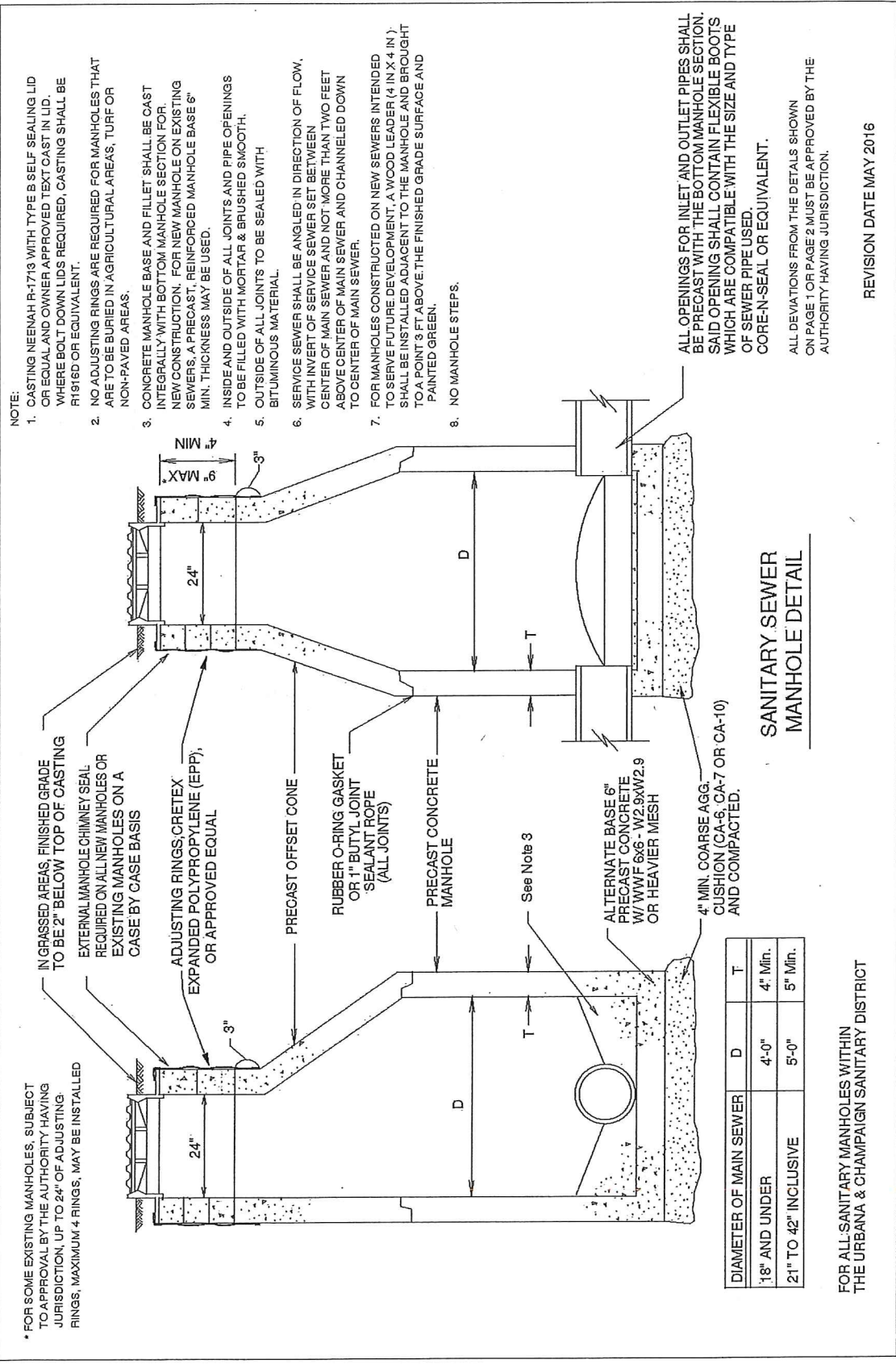


NOTES:

1. THE REINFORCEMENT BARS SHALL NOT BE EPOXY COATED.
2. THE MINIMUM CLEARANCE BETWEEN REINFORCEMENT BARS, CASTINGS, VALVE BOXES, AND PATCH EDGES SHALL BE 3 INCHES.

SEE IDOT STANDARD PCC PAVEMENT ROUNDOUTS 420111-03





- NOTE:
1. CASTING NEEHAH R-1713 WITH TYPE B SELF SEALING LID OR EQUAL AND OWNER APPROVED TEXT CAST IN LID. WHERE BOLT DOWN LIDS REQUIRED, CASTING SHALL BE R1916D OR EQUIVALENT.
 2. NO ADJUSTING RINGS ARE REQUIRED FOR MANHOLES THAT ARE TO BE BURIED IN AGRICULTURAL AREAS, TURF OR NON-PAVED AREAS.
 3. CONCRETE MANHOLE BASE AND FILLET SHALL BE CAST INTEGRALLY WITH BOTTOM MANHOLE SECTION FOR NEW CONSTRUCTION. FOR NEW MANHOLE ON EXISTING SEWERS, A PRECAST, REINFORCED MANHOLE BASE 6" MIN. THICKNESS MAY BE USED.
 4. INSIDE AND OUTSIDE OF ALL JOINTS AND PIPE OPENINGS TO BE FILLED WITH MORTAR & BRUSHED SMOOTH.
 5. OUTSIDE OF ALL JOINTS TO BE SEALED WITH BITUMINOUS MATERIAL.
 6. SERVICE SEWER SHALL BE ANGLED IN DIRECTION OF FLOW. WITH INVERT OF SERVICE SEWER SET BETWEEN CENTER OF MAIN SEWER AND NOT MORE THAN TWO FEET ABOVE CENTER OF MAIN SEWER AND CHanneled DOWN TO CENTER OF MAIN SEWER.
 7. FOR MANHOLES CONSTRUCTED ON NEW SEWERS INTENDED TO SERVE FUTURE DEVELOPMENT, A WOOD LEADER (4 IN X 4 IN) SHALL BE INSTALLED ADJACENT TO THE MANHOLE AND BROUGHT TO A POINT 3 FT ABOVE THE FINISHED GRADE SURFACE AND PAINTED GREEN.
 8. NO MANHOLE STEPS.

ALL OPENINGS FOR INLET AND OUTLET PIPES SHALL BE PRECAST WITH THE BOTTOM MANHOLE SECTION. SAID OPENING SHALL CONTAIN FLEXIBLE BOOTS WHICH ARE COMPATIBLE WITH THE SIZE AND TYPE OF SEWER PIPE USED. CORE-N-SEAL OR EQUIVALENT.

ALL DEVIATIONS FROM THE DETAILS SHOWN ON PAGE 1 OR PAGE 2 MUST BE APPROVED BY THE AUTHORITY HAVING JURISDICTION.

SANITARY SEWER MANHOLE DETAIL

DIAMETER OF MAIN SEWER	D	T
18" AND UNDER	4'-0"	4" Min.
21" TO 42" INCLUSIVE	5'-0"	5" Min.

FOR ALL SANITARY MANHOLES WITHIN THE URBANA & CHAMPAIGN SANITARY DISTRICT

REVISION DATE MAY 2016

