



CITY OF RENTON
 COMMUNITY AND ECONOMIC DEVELOPMENT/
 PUBLIC WORKS DEPARTMENTS
 CUSTOMER SERVICES DIVISION
 CONSTRUCTION SERVICES SECTION

SIDE SEWER INSTALLATION INFORMATION HANDOUT

IT IS THE INTENT OF THE FOLLOWING POLICIES TO OBTAIN SATISFACTORY WORK WITH A MINIMUM OF DELAY TO ALL PARTIES CONCERNED.

DEFINITIONS:

Building Sewer or Side Sewer - The pipe extending from the building drain to the public sanitary sewer main.

Side Sewer Stub - That portion of the building sewer between primary collection lines and individual property lines.

1. Any work within the street right-of-way requires an additional, separate permit and bond, and work must be performed by a licensed, bonded contractor. A traffic control plan, approved by the Transportation Division, will be required.
2. Acceptable procedures for side sewer connections to main lines:
 - a. Vitrified clay - Re-sectioned with flexible Fernco couplings, or approved equal.
 - b. Concrete - Core drilled with a Romac saddle, or approved equal.
 - c. PVC - Re-sectioned with rigid couplings or a Romac saddle on an appropriately cut hole.
 - d. Ductile Iron - Core drilled with a Romac saddle.

All connections to new or existent concrete structures will be at manufactured knock-outs or the structure is to be core-drilled with a kor-n-seal boot or approved equal.
3. For inspection call, 24 hours in advance, 425-430-7203. Be prepared to give Permit Number, location of inspection, type of inspection, contact person (with phone number), and AM or PM inspection request. General information may be obtained by calling Customer Service at 425-430-7200.
4. There will be no guarantee of re-inspection on the same day for any work which is not ready at the time of the scheduled inspection.
5. Sanitary building and side sewers, shall be bedded with "Bedding Material for Flexible Pipe", as adopted by the City of Renton (standard Detail Plan 405).
6. Building sewer and side sewer stubs will be tested from the point of origin to and through the house connection by one of the following methods:
 - a. Water - fill test.
 - b. Low Pressure Air - WSDOT Specification current edition, as adopted and amended by the City of Renton Supplement to the Specifications.
7. In all cases where men, equipment, or material will in any way obstruct vision or inhibit normal traffic flow, an approved Traffic Control Plan providing adequate signs and flagmen will be required to protect motorists and pedestrians. In addition, 24 hours prior to any work being performed within the street right-of-way, Valley Communications Center (911) shall be contacted through one of the following numbers:

Valley Communications Center (via land line telephone).....911
 Valley Communications Center (via cell phone).....(253) 852-2121
8. In the event difficult street crossings must be constructed in more than one continuous operation, the Construction Services Section will endeavor to provide an inspector during each phase of construction, so long as the Construction Services Section is contacted 24 hours in advance via the Inspection Request Line at 425-430-7203.
9. Restoration of street trenches shall be accomplished per the City of Renton's adopted Trench Restoration and Street Overlay Requirements.
10. Upon completion of connection to public sewer mains where septic tanks have previously served the property, the owner shall either abandon and fill said septic tank with a suitable material or suitably clean said septic tank to use in connection with adjoining drain field systems for the disposal of storm water.

side sewer bedding material: pea gravel

SPECIFICATIONS FOR BUILDING SEWERS:

The building sewer shall be ductile iron pipe class 50, PVC plastic pipe ASTM spec. D3034 or equal, or other suitable material approved by the Utilities Engineer. Any part of the building sewer that is located within ten feet (10') of a water service pipe shall be constructed of ductile iron pipe with push-on rubber gasket joints. If installed in filled or unstable ground, the building sewer shall be of ductile iron pipe with push-on rubber gasketed joints.

Joints shall be tight and waterproof. All joints and connections shall be made gastight and watertight, and installed in accordance with APWA spec. 62-3.98A. Ductile iron pipe push-on joints shall conform with ANSI A-21.11. PVC pipe joints shall conform with ASTM D 2680. Other jointing materials and methods may be used only by written approval of the Utilities Engineer.

The size and slope of the building sewer shall be subject to the approval of the Utilities Engineer. The standard minimum sizes and slopes are:

- A. Four inches (4") at a two percent (2%) slope (1/4" per foot) for single-family or duplex residential, or
- B. Six inches (6") at a two percent (2%) slope (1/4" per foot) for multi-family, commercial or industrial.

In no event shall the diameter of the side sewer stub be less than six inches (6").

The utility may allow, under certain circumstances, a six inch (6") side sewer to be laid at no less than one percent (1%) (1/8" per foot). A grade release holding the City harmless for the flatter slope will be required.

Whenever possible, the building sewer shall be brought to the building at an elevation below the basement floor. No building sewer shall be laid parallel to or within three feet (3') of any bearing wall, which might thereby be weakened. The depth shall be sufficient to afford protection from frost. The building sewer shall be laid at uniform grade and in straight alignment insofar as possible. Changes in direction shall be made with proper fittings per City standards. The wastewater utility may allow, at its discretion, the installation of a six inch (6") building sewer properly curved not to exceed one-half (1/2) of manufacturer's specifications.

In all buildings in which any building drain is too low to permit gravity flow to the public sewer, sanitary sewage carried by such drain shall be lifted by approved artificial means and discharged to the building sewer.

All excavations required for the installation of a building sewer shall be open trench work unless otherwise approved by the Utilities Engineer. Pipe laying and backfill shall be performed in accordance with ASTM spec. C12-19 and APWA spec. Sec. 60 except that no backfill shall be placed until the work has been inspected.

INSPECTION NOTICE

Prior to the start of construction activities, telephone:

425-430-7203

a minimum of 24 hours in advance of required inspections.

Inspection requests for the following workday must be received no later than 3:00 pm.

Upon dialing, you will receive a recorded message asking for your inspection request. At the tone, relay your request including the following information:

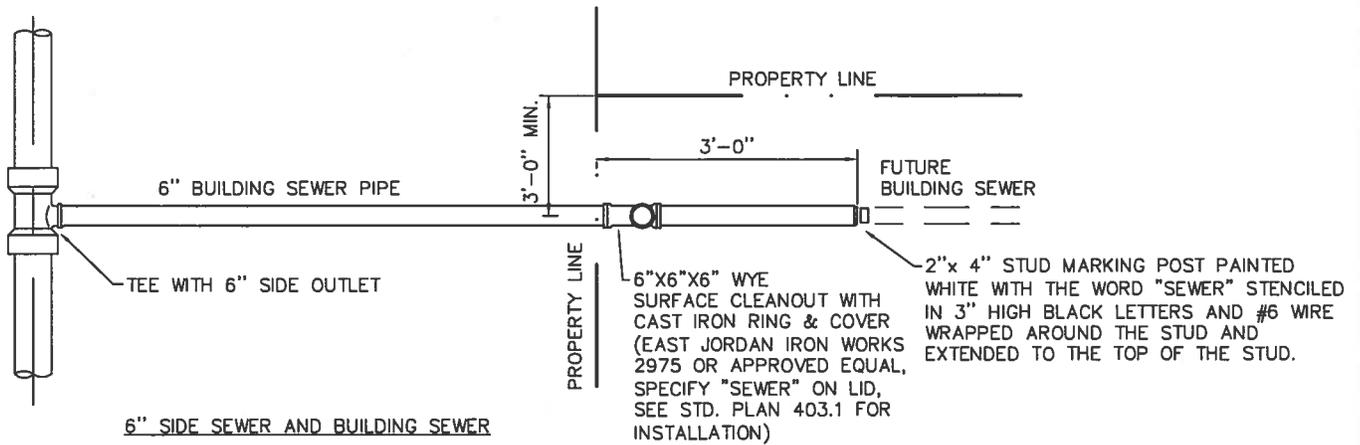
1. Your PERMIT Number (ie C-000000) or, in cases of City project, the Project Identification. (Inspections will not be scheduled without proper identification).
2. Location of requested inspection. (Street Address, Street Intersection, etc.)
3. Type of inspection requested. (Concrete, earthwork, drainage, sewer, field meeting, etc.)
4. Name of person to contact and day-time phone number.
5. Approximate time of requested inspection - AM or PM. (Due to a variable workload, inspections cannot be scheduled for specific hours. The only exception is inspections that require the scheduling of special testing personnel, observing consultants, or other time-restraining factors approved by the Inspector in advance. Inspections will be scheduled in the order received to the limit of available man hours.

NOTE: The **ONLY** exception to the 24 Hour Minimum scheduling requirement is in cases of bonafide Emergencies. In cases of true Emergencies (broken utilities, urgent traffic control problems, etc.), telephone:

425-430-7200

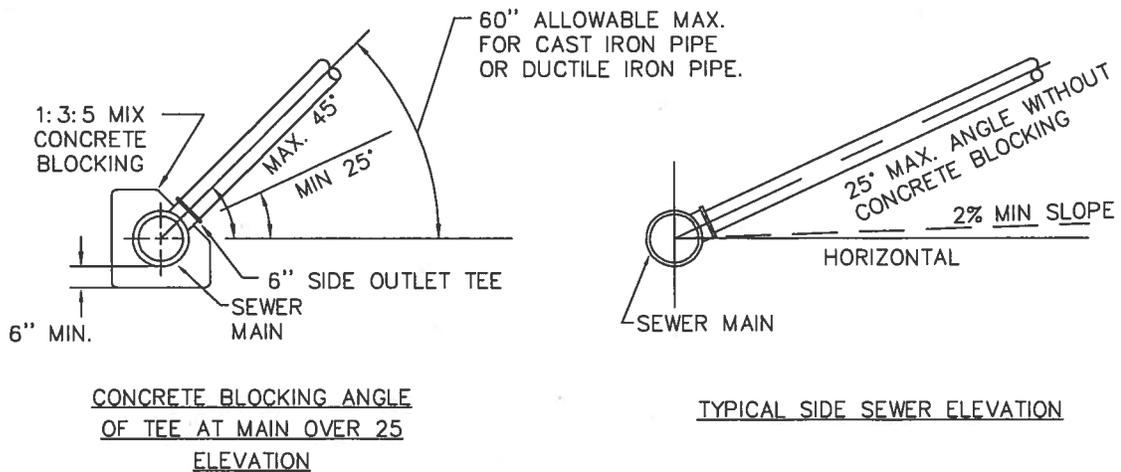
and ask to speak to the assigned Inspector (by name if possible). An attempt will be made to contact the Inspector or, if that Inspector is unavailable, to assign an Emergency Inspector to handle the problem. Note: this procedure is to be used for real Emergencies **ONLY**. Your failure to adequately schedule your operations to allow for advance requests does not constitute an Emergency!!

YOU WILL BE CHARGED FOR THE INSPECTOR'S TIME IF THE PROBLEM IS NOT AN EMERGENCY!



ACCEPTABLE PROCEDURES FOR SIDE SEWER CONNECTIONS TO MAIN LINES ARE AS FOLLOWS:

- A. VITRIFIED CLAY MAIN - CUT IN A NEW TEE USING FLEXIBLE COUPLINGS (FERNCO OR APPROVED EQUAL).
- B. CONCRETE MAIN - CORE-DRILLED WITH A ROMAC SADDLE (OR APPROVED EQUAL).
- C. PVC MAIN - CORE-DRILLED WITH A ROMAC SADDLE (OR APPROVED EQUAL) OR CUT IN A NEW TEE USING RIGID COUPLINGS.
- D. DUCTILE IRON MAIN - CORE-DRILLED WITH A ROMAC SADDLE (OR APPROVED EQUAL)
- E. MANHOLE CONNECTION - ALL CONNECTIONS TO MANHOLES SHALL BE AT MANUFACTURED KNOCK-OUTS OR THE STRUCTURE SHALL BE CORE-DRILLED.



NOTE:
UNLESS OTHERWISE SHOWN ON PLAN, SIDE SEWER SHALL HAVE A MINIMUM 2.5' COVER AT PROPERTY LINE OR 3-5' LOWER THAN THE LOWEST HOUSE ELEVATION, WHICHEVER IS LOWER.



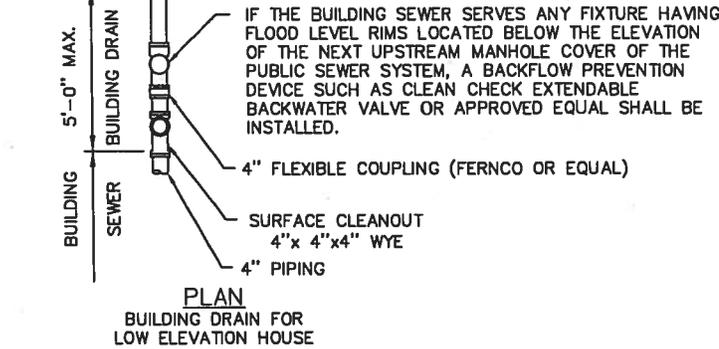
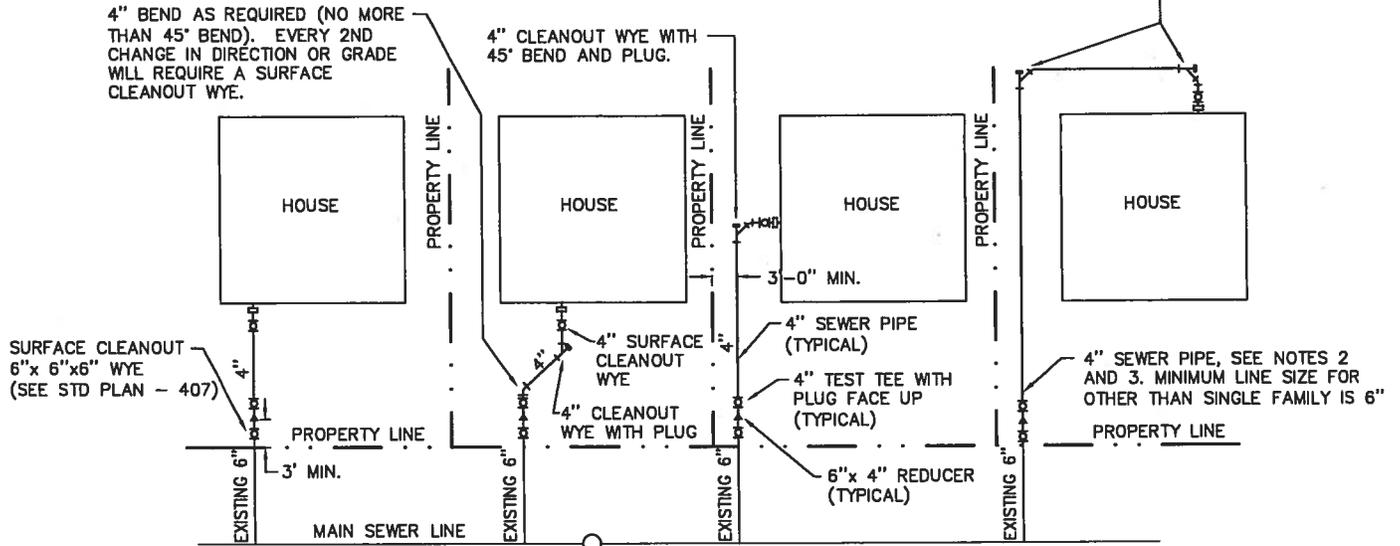
PUBLIC WORKS
DEPARTMENT

**STANDARD SIDE SEWER
INSTALLATION
(SEWER MAIN TO PROPERTY LINE)**

STD. PLAN - 406.1

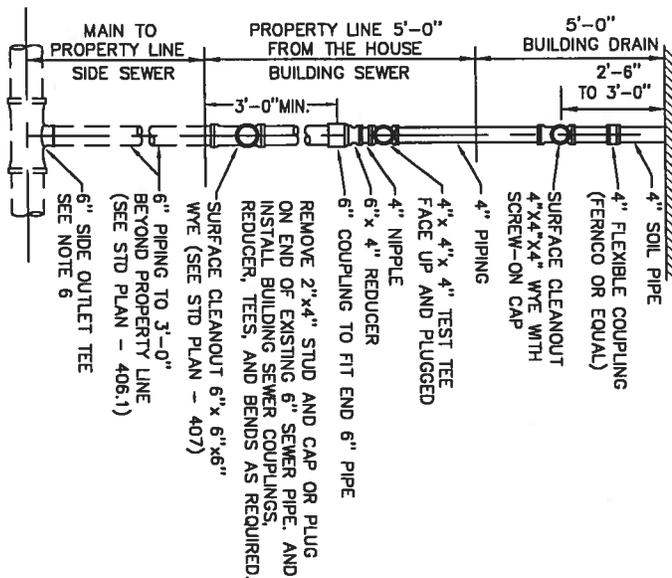
SEPTEMBER 2011

ALL 90° TURNS SHALL BE ACCOMPLISHED BY MEANS OF A WYE AND 45° BEND. TWO 45° BENDS SHALL NOT BE ACCEPTABLE.



NOTES:

1. Prior to installation of a sanitary sewer connection, a side-sewer permit must be purchased from the City of Renton Public Works Department.
2. Types of pipe and fittings that can be used for sanitary sewers shall be approved by the Department of Public Works. Rubber or neoprene gaskets as specified by the manufacturer, shall be used on joints.
3. A minimum grade of 2% (1/4" per foot) must be maintained with 4" pipe. In the event a 2% grade cannot be maintained, the owner must sign a City of Renton grade release form and then can install 6" pipe at a grade of 1%.
4. For inspection of side sewer, call 24 hours in advance. The inspection phone number is on the side sewer permit. Site must be ready for inspection and representative on site when inspector arrives at appointed time. Side sewer and stub shall be tested per City specifications. Make the connection at the house. Do not backfill the ditch until approval is given by the inspector. Final approval will be granted after the existing septic tank has been pumped out and filled with sand.
5. Install side sewer with 2' minimum cover. 18" cover is allowed at the house if outlet is shallow.
6. If side sewer stub is not available. The owner shall be responsible for its installation per standard drawing 406.1. All work within street right-of-way shall be done by a licensed and bonded contractor.
7. All work shall be accomplished in accordance with the Washington Industrial Safety and Health Act. (WSHA)
8. All trench restoration for side sewers in the public right-of-way shall conform to the most current trench restoration requirements as in the Renton Standard Drawings.
9. All building sewer and side sewers shall have bedding in accordance with standard drawing 405.
10. There shall be a minimum 10 foot horizontal separation between sanitary side sewers and water services and a minimum 5 foot horizontal separation between sanitary side sewers and all other utilities.



CALL FOR LOCATIONS BEFORE YOU DIG
48HR LOCATORS 1-800-424-5555

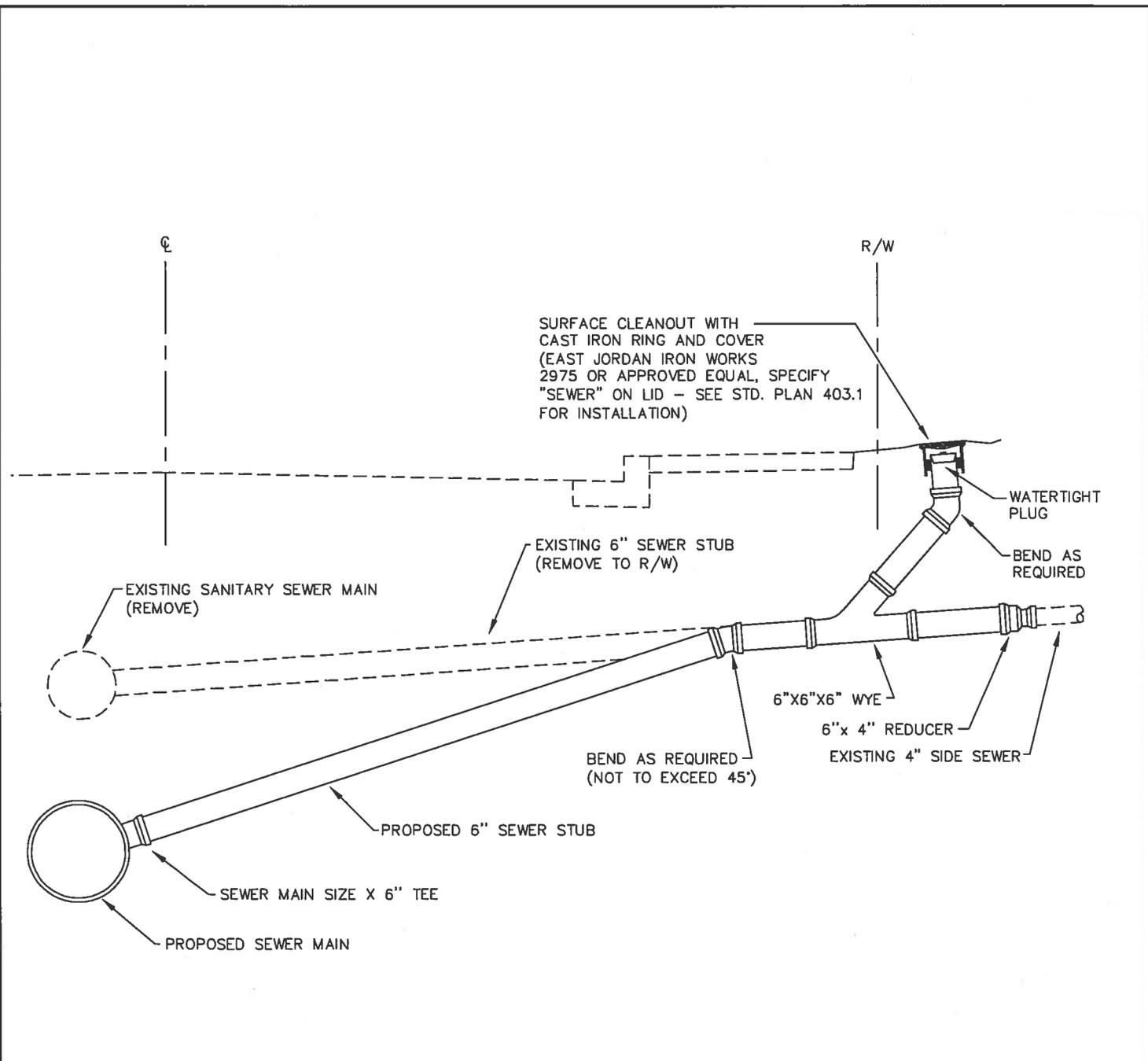


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DEPARTMENT

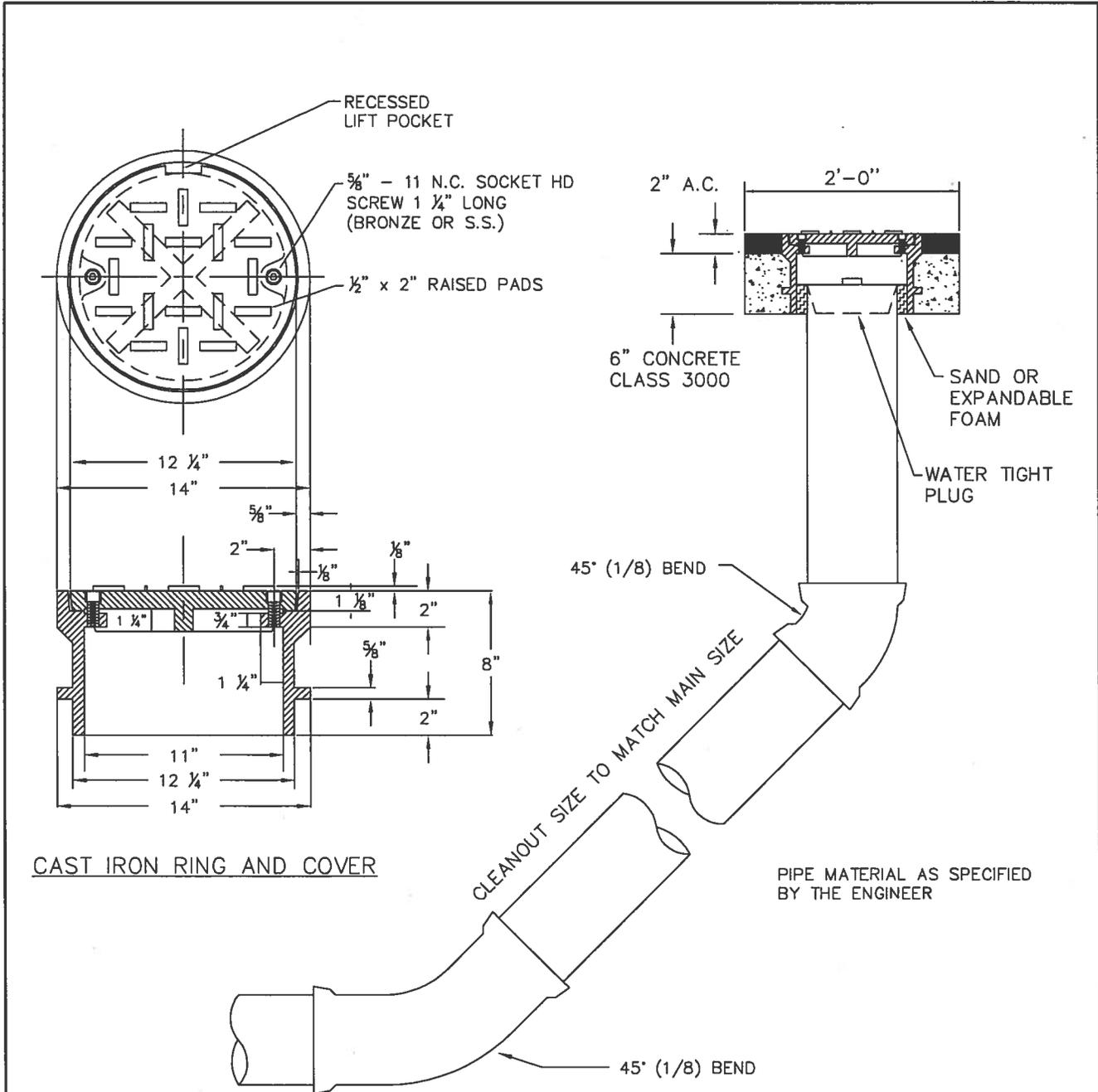
**TYPICAL BUILDING SEWER
FROM PROPERTY LINE TO
BUILDING CONNECTION**

STD. PLAN - 406.2

SEPTEMBER 2012



NOT TO SCALE

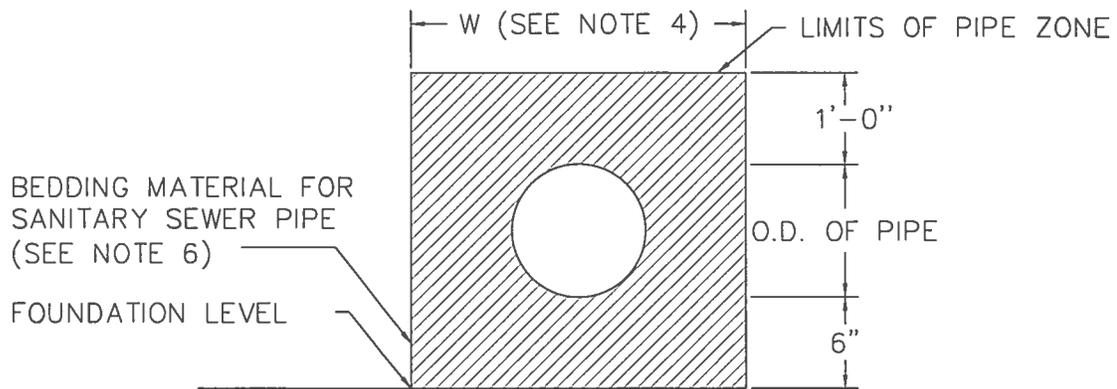


CAST IRON RING AND COVER

PIPE MATERIAL AS SPECIFIED BY THE ENGINEER

NOTES:

1. 8" AND 6" CLEANOUTS ON SEWER MAINS SHALL BE EAST JORDAN IRON WORKS, INC. No. 3698 OR EQUAL. CLEAN OUT SHALL BE A WATER TIGHT ASSEMBLY.
2. IN UNIMPROVED AREAS, POUR A 1'-0" THICK, 2'-0" SQUARE CONCRETE, CLASS 3000, PAD AROUND THE RING AND COVER.



BEDDING FOR SANITARY SEWER PIPE

NOTES:

1. PROVIDE UNIFORM SUPPORT UNDER BARREL.
2. HAND TAMP UNDER HAUNCHES.
3. COMPACT BEDDING MATERIAL TO 95% MAX. DENSITY EXCEPT DIRECTLY OVER PIPE. HAND TAMP ONLY.
4. PIPE INSTALLATION SHALL BE PER SECTION 7-08 OF THE STANDARD SPECIFICATIONS.
5. PIPE ZONE MATERIAL SHALL BE "GRAVEL BACKFILL FOR DRAINS" AS SPECIFIED IN THE AGGREGATES SECTION OF THE STANDARD SPECIFICATIONS OR PEA GRAVEL.
6. PIPE MUST BE ANCHORED IN SUCH A MANNER AS TO ENSURE FLOW LINE IS MAINTAINED.



PUBLIC WORKS
DEPARTMENT

**PIPE BEDDING
FOR SANITARY SEWERS**

STD. PLAN - 405

SEPTEMBER 2012

Side Sewer Contractors

The following contractors have done work in the City of Renton. While the City **does not** have a mandatory list of contractors to use, these contractors are familiar with the City's specifications. **The owner reserves the right to hire any licensed and bonded contractor.** A bond is required when working in the public right of way.

Company Name	Telephone	Business License	Bond
Aces Four Construction	1-206-622-8337	28924	On File
AMaster Septic Service	1-253-847-3230	3556	None
CK Excavating	425-255-6994	23888	None
Creative Excavation	1-877-435-5777	23648	None
Delta Excavating, Inc.	425-917-8367	22812	On File
Don Olson Construction	253-735-0911	6545	On File
Fast Cats LLC	253-261-1198	26007	On File
G & R Excavating (formerly Ray's Backhoe)	206-767-5868	3198	On File
Henry's Trucking & Excavation	425-255-9455	4635	On File
Holmes Construction	425-235-0217	1912	On File
Home Sewer Construction	253-863-3994	31296	On File
James A. Guess, Inc.	360-825-7725	24858	On File
Jim Jacques Construction	425-941-6869	8577	None
Kodo Construction	253-833-0911	30729	On File
La Valley Backhoe	425-226-0513	4852	On File
Mr. Rooter Plumbing	425-226-4731	3512	None
Northwest Cascade	253-848-2371	50	On File
Northwest Plumbing Connection	253-472-9910	27547	On File
Rocky Kohl	425-251-8820	29382	None
Ron's Bulldozing	360-886-0584	5908	None
The Plumbing Joint	425-228-3204	1699	None