Master

HOOPER CITY CORPORATION

Application for Gravity Sewer Service Lateral Construction Permit		
Date of Application:		
Owner's Last Name:	Subdivision:	
Owner's First Name:	Lot No.:	
Address:		
Primary Telephone Number:		
Secondary Telephone Number:		
Contractor's Name:		
Contractor's License Number:		
Contractor's Telephone Number:		
Sketch Plan Required:	Yes [ ]	No [ ]
Sketch Plan Submitted:	Yes [ ]	Date:
Sketch Plan Reviewed and Approved:	Date:	By Whom:
Central Weber Sewer District Impact Fee Paid ($809)	Date:	
Construction Permit Issued	Date:	By Whom:
Pipeline Inspection	Date:	By Whom:
Inspection Notes:		
Sewer Outfall Connection Inspection	Date:	By Whom:
Inspection Notes:		
Connection to Valve Pit Stub Inspection	Date:	By Whom:
Inspection Notes:		
Vacuum Valve Installed and Tested:	Date:	By Whom:
Inspection : Septic Tank Pumped and Disabled:	Date:	By Whom:
As-Built Sketch Completed and Filed:	Date:	By Whom:
Additional Comments:		

HOOPER CITY CORPORATION
GRAVITY SEWER SERVICE LATERAL SPECIFICATIONS AND INSTALLATION REQUIREMENTS - EXISTING RESIDENTS ONLY

1. Required Connection

Connection to the sewer system is required of by any owner or other person occupying or having charge of any premises (land and buildings) within the city limits which are situated within 300 feet of a sewer main except by express approval of the City Council in cases of undue hardship, or where pumping is required to access the system. Connection to the sewer system must occur within 90 days from the date that the city sewer system is available and functional (written notice will be provided).

2. Illicit Connections

No connections of any kind other than sanitary sewer from the building shall be interconnected to the sewer lateral or connected to the City's sewer main. This includes, but is not necessarily limited to, groundwater, rainwater, cellar or surface water, acids, alkalies, lye or other injurious liquids, or the contents of any spring, flowing well, creek ditch or other water courses. The discharge of the contents of waste pipes from water filters, gas or diesel engines, air compressors, vacuum or dry cleaners, garages, wash racks, stores or warehouses containing flammable substance, buildings for the stabling or keeping of horses, cows and other animals, and all similar establishments shall not be made into or connected with the sewer system unless such contents are discharged into a settling tank properly trapped and vented, said tanks to be of a construction approved by the Public Works Director and to be as all times subject to his approval or condemnation.

3. Qualified Installation

Installation of the sewer lateral shall be performed by an individual who is qualified to plan, oversee and complete the work in accordance with the City's specifications and details. Properly licensed and qualified contractors are preferred installers. If a licensed contractor is not used, the owner or applicant must submit a detailed sketch plan of the proposed installation with the permit application. The City Public Works staff will review the plan and any required revisions shall be made before the permit is issued. In general, the submitted sketch plan shall conform to the following:

- ☑ Two copies required.
- ☑ Property Address, Owner's Name, and Date shall be noted.
- ☑ Legible and neat (drawn to scale, if possible).
- ☑ Location of existing septic tank.
- ☑ Location of existing building.
- ☑ Valve Pit location as dictated by the City
- ☑ Estimated depth of existing connection to the building.
- ☑ Proposed pipe routing and length.
- ☑ Proposed slope of the pipe (¼" per foot).
- ☑ Location of air intake pipe, backflow prevention device (check valve), cleanouts, bends, etc..

According to the Utah Division of Occupational and Professional Licensing, the following contractor licenses are acceptable for sewer lateral work:

E100 General Engineering Contractor
B100 General Building Contractor
R100 Residential and Small Commercial Contractor
S210 General Plumbing Contractor
S216 Residential Sewer Connection and Septic Tank Contractor
S390 Sewer and Water Pipeline Contractor

4. Pipe Materials

The City will coordinate with local plumbing supply stores so that approved pipe materials are available for purchase locally.

Sewer laterals and associated pipe materials shall be constructed using 4-inch minimum SDR 21 PVC pressure pipe or Schedule 40 PVC pipe (outside diameter for both pipes is 4.5 inches). Joints may be gasketed or solvent welded. Fittings shall be Schedule 40 PVC solvent welded fittings per ASTM D-2466.

Gaskets shall be per ASTM F-477.

Solvent cement shall meet the requirements of ASTM-2564. Primer and cement shall not be of the same color.

45-degree ells and wye fittings shall be used through-out. Tee fittings and 90-degree ells are prohibited.

5. Pipe Installation

The vacuum valve pit depths at the street have been determined using a 2% slope (1/4" per foot) on the sewer lateral from your building to the vacuum

valve pit location. The property owner shall install the sewer lateral at a 2% slope. Any additional depth required to get into the vacuum valve pit shall be made up at or near the valve pit location.

6. Air Intake Pipe

Each sewer lateral must be equipped with a 4-inch air intake pipe and 180-degree vent with a rodent screen. The wye connection of air intake pipe to the sewer lateral must be at least 20 feet away (upstream) from the valve pit, but may otherwise be installed anywhere between the City's valve pit and the structure. The air intake pipe may be routed to a location on the property satisfactory to the property owner and the riser brought above the ground at that location. Preferably, the air intake piping will be installed in a location where there is no chance that it will get damaged by other activities. The air intake piping shall be constructed of the same materials as the sewer lateral itself and must be installed as shown in the City's standard details.

7. Backflow Prevention

Each gravity sewer service lateral must be equipped with a backflow prevention device (sewer check valve) appropriate for use in a gravity sewer pipeline. The backflow device must be installed upstream of the air intake piping as shown in the City's standard details. Backflow prevention devices that will work with 4-inch PVC sewer laterals are available for purchase from local plumbing supply specialty stores.

8. Clean-outs

4-inch (or line-size) clean-outs are required on all gravity sewer service laterals at each horizontal change in direction and every 100 feet maximum along the service lateral. Clean-outs shall be extended to ground surface and capped as shown in the City's standard details. At least one clean-out is required somewhere along the sewer lateral. The air intake pipe described in Paragraph 6 above can be used as a clean-out as long as the 180 degree vent is not glued to the riser.

9. Bedding and Backfill

All piping shall be carefully "bedded" using fine earthen material such as sand or fine gravel. No large (2-inch or larger) or sharp rocks should be placed in contact with the pipe. In most instances, the excavated native soil will be acceptable at pipe bedding material. Bedding material shall also be placed in the pipe zone (area immediately around the pipe on all sides) as shown in the City's standard details. The pipe zone shall be compacted prior to backfilling. Backfill may be done with excavated native material

and should also be compacted. Surface restoration is the property owner's responsibility.

9. Public Works Inspections

Each sewer lateral shall be inspected by a member of the City's Public Works staff prior to placement of any soil on the pipe, and as required by the City's sewer lateral construction permit. Any corrections required by Public Works must be re-inspected after the corrections have been made.

10. Call Before You Dig

Contact Blue Stakes at 1-800-662-4111 at least 48 hours before you dig.

HOOPER CITY CORPORATION

PROCEDURE FOR OBTAINING A GRAVITY SEWER SERVICE LATERAL CONSTRUCTION PERMIT AND MAKING A GRAVITY SEWER SERVICE LATERAL CONNECTION - EXISTING RESIDENTS ONLY

1. Obtain a gravity sewer service lateral (sewer lateral) information packet from the Hooper City Office (attached materials).

2. Complete the gravity sewer service lateral construction permit (permit) application and return the completed application to the Hooper City Offices. There is no cost for the permit.

   Note: Even if you have already stubbed a service lateral out of your home or business, you must still complete an application and obtain a permit to connect to the City's sewer system.

3. Pay to Hooper City the Central Weber Sewer District Impact Fee of $809.00 (required for each connection). In order to avoid District penalties and/or additional District charges, this impact fee must be paid before the City's sewer system is operational, or by April 1, 2007.

4. Once a permit has been granted by the City's Public Works Department, install the sewer lateral from your home or business out to your property line near the vacuum valve pit location, in accordance with the attached specifications and standard details. The complete installation of the sewer lateral includes three (3) steps which are summarized below and explained in greater detail in the specifications and standard details which follow:

   a. Install the sewer lateral pipeline, clean-outs, air intake pipe and backflow prevention device (by property owner).

   b. Connect the sewer lateral to the service line that is stubbed out from the vacuum valve pit (by property owner or City - see Paragraph 5B below).

   c. Connect your sewer lateral to the sewer outfall line from your home or business, thus disconnecting the sewer outfall line to the septic tank (by property owner).

   Note: For those who desire to work with a contractor, the Hooper City Public Works Department will publish a list of qualified local contractors who are properly licensed and who have participated in a short, mandatory pre-construction conference with the City.

5. All work on the sewer lateral must be inspected by the City prior to backfilling (covering it up). Schedule inspections with the Hooper City Public Works Department (732-1064) at least 24 hours prior to backfilling. Inspections will be available weekdays between 8:00 a.m and 5:00 p.m. Inspections must be conducted prior to backfilling.

A. Typical Installation and inspection scenario:

1. You (or a qualified contractor) dig a trench and install your "dry" sewer lateral.
2. The public works inspector inspects the "dry" sewer lateral prior to backfilling.
3. You are notified that the sewer system is operational.
4. You schedule a second inspection at the time that you will be making the final connection of your new sewer lateral to the existing sewer outfall from your home. Note: You will not be able to disconnect the sewer outfall from your septic tank until the City's sewer system is operational and your sewer lateral has been inspected and approved.
5. Immediately following the second inspection and approval of your connection to your sewer outfall line, Public Works personnel will install the vacuum valve in the valve pit out at the street and your sewer connection will be fully functional. Note: There will be a short period of time (probably less than one hour) that you will not be able to discharge any wastewater from your home or business.

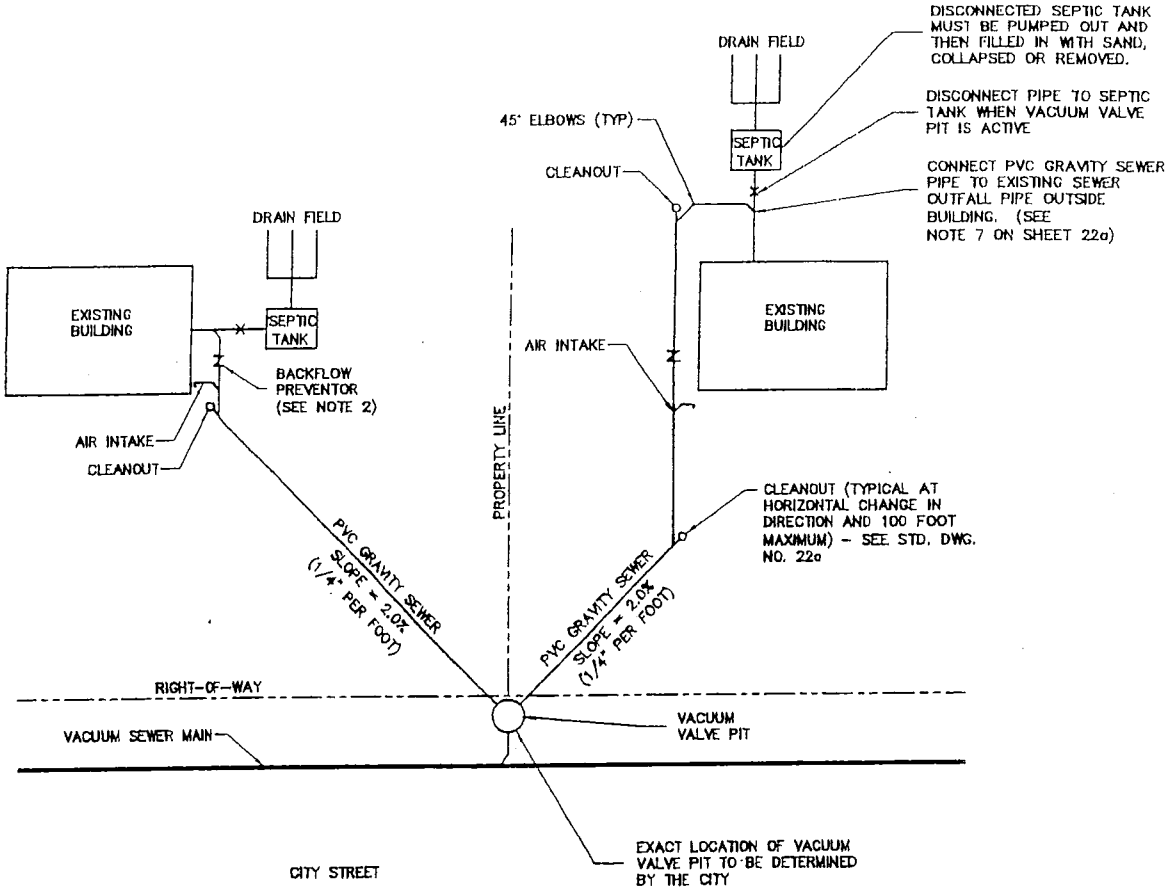
B. If your sewer lateral has been installed out to its planned location at the street before the City's contractor comes by, then the City's contractor will make the connection of your sewer lateral to the City's service from the valve pit to your property line. If you install your sewer lateral after the City's contractor has come by, you (or your qualified contractor) will make the connection of your sewer lateral to the City's system. This connection will be inspected along with the other inspections described in Paragraph A above, either during the first inspection or the second inspection, depending upon the timing.

6. Have your septic tank pumped by a septic tank pumping company. Septic tank effluent shall not be pumped into the City's sewer system. Disable your septic tank in accordance with State and County regulations by filling the tank with dirt or sand, or by crushing the tank and backfilling the resulting void. This action must be verified by the City's Public Work inspector so that the septic tank status can be reported to the Weber-Morgan Health Department.

Note: The City will solicit quotes from septic tank pumping companies and will publish a list of interested companies along with their quotes at the City offices for your use in procuring this service.

7. The Public Works inspector will file an "as-built" sketch of the sewer lateral with the City upon completion of the work. This sketch will show the approximate location of the sewer lateral on the property, but is not intended to be precise. Precise as-built sketches are the responsibility of the property owner.

8. Existing "Dry" Sewer Laterals - For those property owners who already have a "dry" sewer lateral coming from their home or business, you will still need to obtain a permit to complete the installation of the sewer lateral, including clean-outs, air vent piping, and a backflow prevention device. Inspections by Public Works personnel are also required. For the piping that has been previously buried on your property, you will not be required to expose it for inspection. You will be asked, however, to sign a waiver which states that you understand that the piping materials and methods used in constructing your existing "dry" sewer lateral may not comply with Hooper City specifications, and that you are willing to accept full responsibility for the existing pipeline rather than to replace it.



NOTES:

1. THE SEWER LATERAL BETWEEN THE BUILDING AND THE STREET RIGHT-OF-WAY LINE SHALL BE LAID AT 2% SLOPE (1/4" PER FOOT). ELEVATION CHANGES REQUIRED TO TIE INTO THE CITY'S VACUUM VALVE PIT WILL BE MADE AT THE VALVE PIT.
2. INSTALL BACKFLOW PREVENTOR (CHECK VALVE) UPSTREAM OF THE AIR INTAKE PIPING.

PLAN VIEW

REVISION

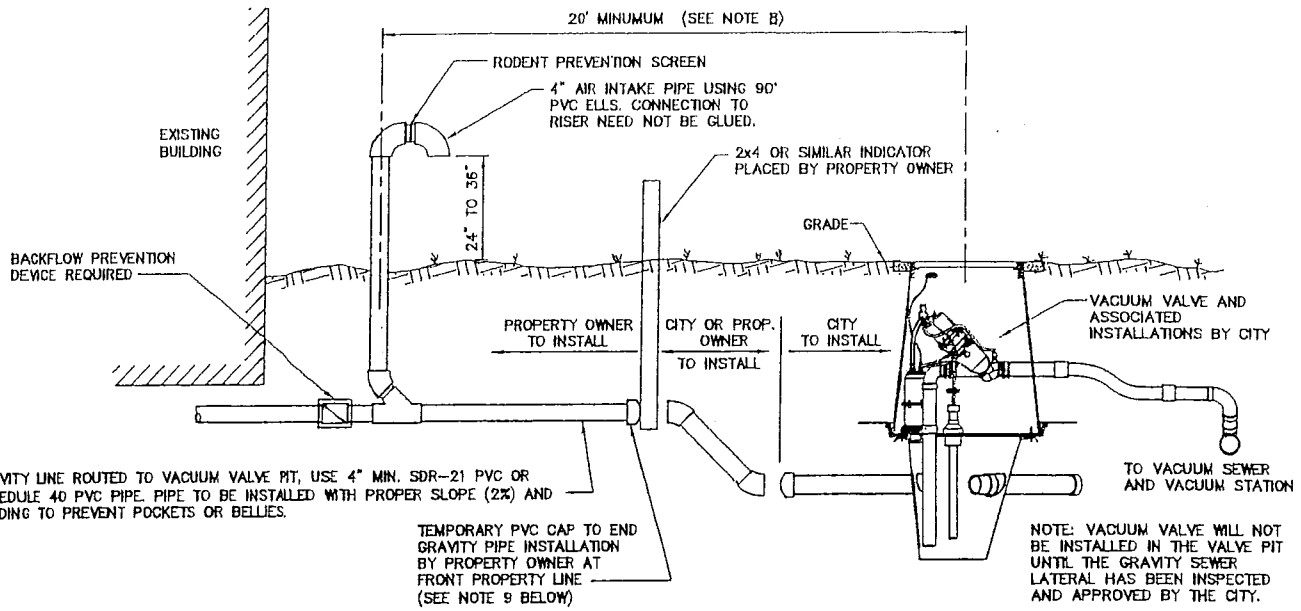
NO.	DESCRIPTION	BY	APR.	DATE
1				
2				
3				

(J-U-B) (Engineers | Surveyors | Planners)

TYPICAL GRAVITY SEWER LATERAL PLAN VIEW - EXISTING BUILDINGS

HOOPER CITY
DEVELOPMENT STANDARDS

STANDARD DRAWING NUMBER:	22
CAD DWG:	SEWER_LAT
PLOT SCALE:	1 = 48
DRAWN BY:	JDM
DESIGN BY:	TLA
CHECKED BY:	TLA
ADOPTED DATE:	JUN 2005



FRONT PROFILE VIEW

NOTES:

1. EACH PROPERTY OWNER SHALL INSTALL A GRAVITY SEWER PIPE (SERVICE LATERAL) FROM THE EXISTING SEWER OUTFALL FROM THEIR RESIDENCE OR OTHER BUILDING TO THE FRONT PROPERTY LINE ALONG AN EXISTING CITY STREET.
2. EACH SEPARATELY-OWNED BUILDING SHALL HAVE ITS OWN SEPARATE SERVICE LATERAL OUT TO THE PROPERTY LINE.
3. THE LOCATION OF THE VALVE PIT SHALL BE DETERMINED BY THE CITY. IF THE SEWER SERVICE LATERAL IS INSTALLED PRIOR TO THE INSTALLATION OF THE VALVE PIT, COORDINATE WITH PUBLIC WORKS FOR THE PLANNED LOCATION OF THE VALVE PIT.
4. VALVE PIT LIDS SHALL NOT BE BURIED, COVERED, OR OTHERWISE OBSTRUCTED BY ANY ACTION OF THE PROPERTY OWNER. IT IS ILLEGAL TO DISCHARGE ANY FLOWS OTHER THAN SANITARY SEWER FROM THE PRIMARY STRUCTURE'S MAIN OUTFALL INTO THE SEWER SERVICE LATERAL, INCLUDING, BUT NOT LIMITED TO, ROOF DRAINS, SUMP DRAINS, LAND DRAINS, ETC.
5. 90-DEGREE ELBOWS AND TEE FITTINGS SHALL NOT BE PERMITTED FOR USE ON THE GRAVITY SEWER SERVICE LATERAL. WYE FITTINGS SHALL BE USED INSTEAD OF TEES. TWO 45-DEGREE ELBOWS SEPARATED BY A 3-FOOT PIPE LENGTH SHALL BE USED INSTEAD OF A 90-DEGREE ELBOW.
6. A PVC SEWER CLEANOUT AS SHOWN IN STANDARD DRAWING 22b SHALL BE REQUIRED AT EVERY HORIZONTAL CHANGE IN DIRECTION, AND EVERY 100-FEET MAXIMUM ALONG THE SERVICE LATERAL. AT LEAST ONE CLEANOUT IS REQUIRED ON EVERY SEWER LATERAL. THE AIR INTAKE PIPE MAY SERVE AS A CLEANOUT AS LONG AS THE 90-DEGREE ELBOWS ARE NOT GLUED TO THE VERTICAL RISER PIPE.
7. THE ENTIRE GRAVITY SEWER SERVICE LATERAL MUST BE INSPECTED AND APPROVED BY THE CITY'S PUBLIC WORKS INSPECTOR BEFORE BACKFILLING AND BEFORE THE VACUUM VALVE IS INSTALLED IN THE VALVE PIT. CONNECTION OF THE SEWER LATERAL TO THE EXISTING SEWER OUTFALL FROM THE BUILDING CANNOT OCCUR UNTIL THE SEWER SYSTEM IS OPERATIONAL.
8. THE CONNECTION OF THE AIR INTAKE PIPE TO THE SEWER LATERAL MUST BE LOCTED AT LEAST 20 FEET UPSTREAM OF THE VALVE PIT, BUT MAY OTHERWISE OCCUR ANYWHERE ALONG THE SEWER LATERAL. THE AIR INTAKE PIPE MAY BE ROUTED TO A LOCATION ON THE PROPERTY SATISFACTORY TO THE OWNER AND THE RISER BROUGHT ABOVE GROUND AT THAT LOCATION.
9. IF THE SEWER LATERAL HAS BEEN INSTALLED OUT TO THE PROPER LOCATION PRIOR TO THE INSTALLATION OF THE VACUUM VALVE PIT, THEN THE CITY WILL MAKE THE CONNECTION OF THE SEWER LATERAL TO THE STUBBED SERVICE FROM THE VALVE PIT. IF THE SEWER LATERAL IS INSTALLED AFTER THE VACUUM VALVE PIT IS INSTALLED, THE PROPERTY OWNER WILL MAKE THE CONNECTION OF THE SEWER LATERAL TO THE STUBBED SERIVCE FROM THE VALVE PIT. THIS CONNECTION WILL INCLUDE THE NECESSARY PIPE AND FITTINGS TO ADJUST THE FINAL GRADE OF THE SEWER LATERAL TO MATCH THE GRADE OF THE STUBBED SERVICE LINE FROM THE VALVE PIT.

TYPICAL GRAVITY SEWER LATERAL INSTALLATION

EXISTING BUILDING OUTFALL TO VACUUM VALVE PIT

REVISION

NO.	DESCRIPTION	BY	APR.	DATE
1				
2				
3				
4				

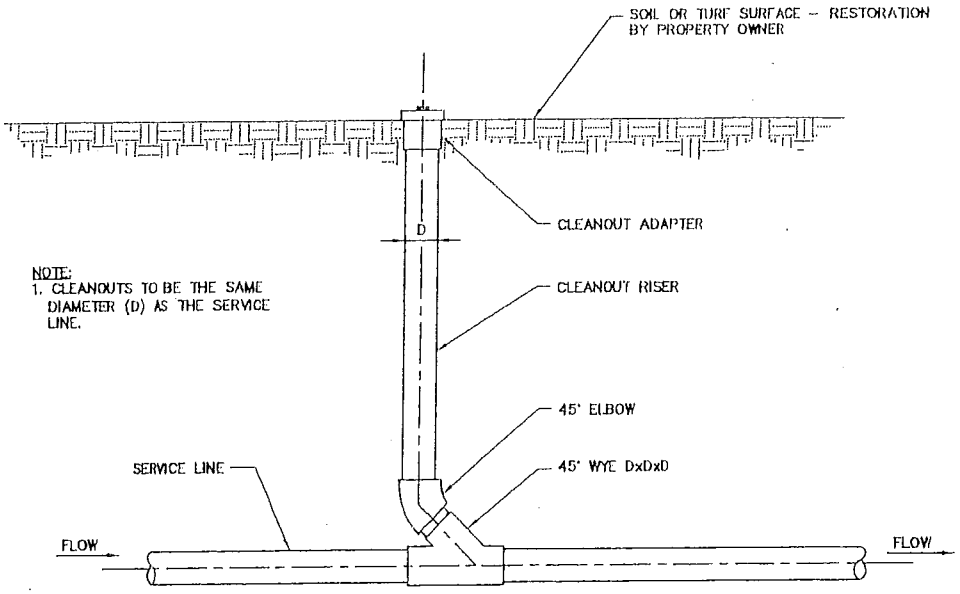
J-U-B Engineers • Surveyors • Planners

TYPICAL GRAVITY SEWER LATERAL INSTALLATION DETAILS

HOOPER CITY
DEVELOPMENT STANDARDS

STANDARD DRAWING NUMBER: 22a

CAD DWG:	SEWER_LAT
PLOT SCALE:	1 = 48
DRAWN BY:	JDM
DESIGN BY:	TLA
CHECKED BY:	TLA
ADOPTED DATE:	JUN 2005

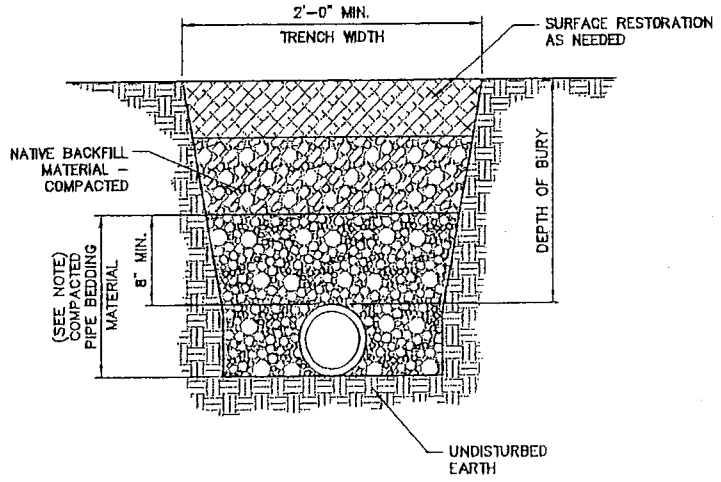


NOTE:
1. CLEANOUTS TO BE THE SAME DIAMETER (D) AS THE SERVICE LINE.

ELEVATION VIEW

TYPICAL GRAVITY SEWER CLEANOUT DETAIL

SCALE: N.T.S.



NOTE:

PIPE BEDDING MATERIAL MAY BE NATIVE EXCAVATED MATERIAL AS LONG AS IT IS FREE OF ROCKS LARGER THAN 2 INCHES, LUMPS LARGER THAN 2 INCHES, FROZEN MATERIAL AND DEBRIS.

TYPICAL GRAVITY SEWER TRENCH SECTION

SCALE: N.T.S.

REVISION

NO.	DESCRIPTION	BY	APR.	DATE
1				
2				
3				
4				

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TYPICAL GRAVITY SEWER LATERAL CLEANOUT DETAIL & TRENCH SECTION

HOOPER CITY
DEVELOPMENT STANDARDS

STANDARD DRAWING NUMBER:	22b
CAD DWG:	SEWER_LAT
PLOT SCALE:	1 = 48
DRAWN BY:	JDM
DESIGN BY:	TLA
CHECKED BY:	TLA
ADOPTED DATE:	JUN 2005