

TYPICAL ASPHALT ALLEY CONSTRUCTION AND REPAIR

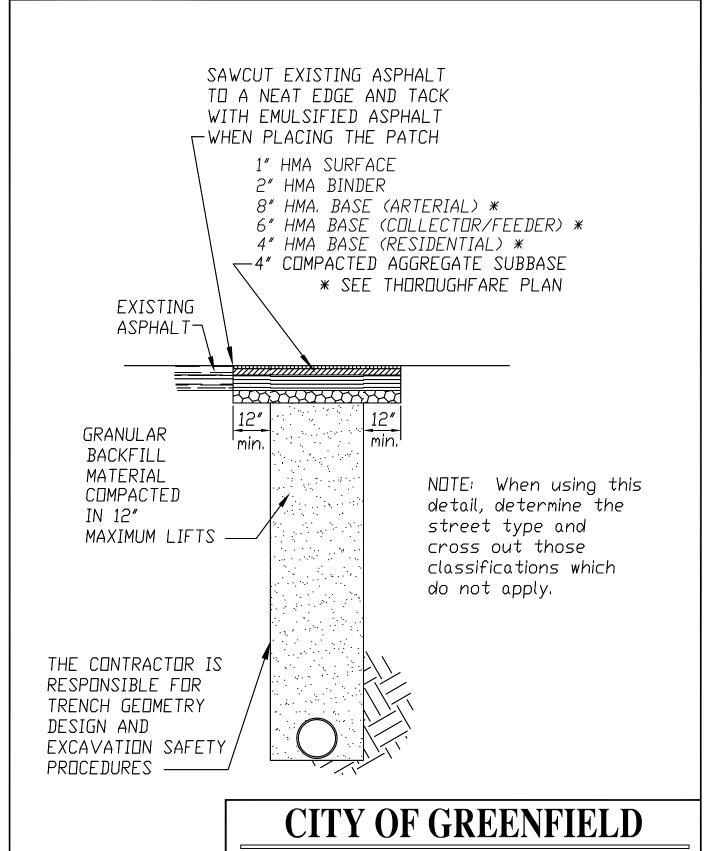
CITY OF GREENFIELD

STANDARD DETAIL

ALLEY PAVEMENT REPLACEMENT DETAIL

 Dwn.By: D.Rodgers
 Origin Date: 11/30/07

 Des. No: R-100-01
 Rev. Date: 12/10/07



STANDARD DETAIL

ASPHALT STREET CUT REPAIR DETAIL

 Dwn.By: D.Rodgers
 Origin Date: 12/29/98

 Des. No: R-101-01
 Rev. Date: 12/10/07

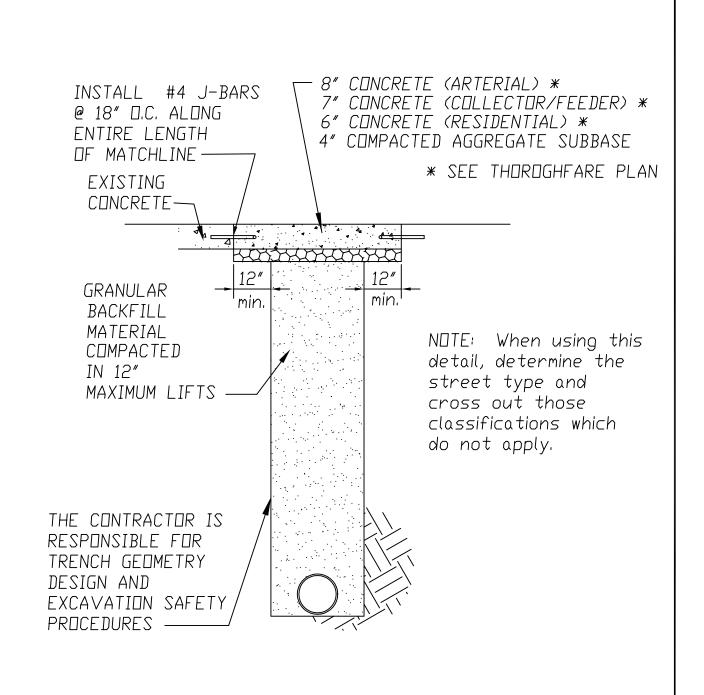
ASPHALT PAVEMENT REPAIR SPECIFICATIONS

I. MATERIALS

- A. ASPHALT
- 1. Asphalt Material shall meet the requirements of Section 403 of the INDOT Standard Specifications.
- 2. The required thickness of the pavement patch is based on the Thoroughfare Designation as established by the Greenfield Comprehensive Plan.
- B. BEDDING AND BACKFILL
- 1. Granular material must be used to backfill the excavation. The material must be mechanically compacted in lifts not to exceed 12".

II. EXECUTION

- A. TRAFFIC SAFETY
- 1. Road Closures are not allowed except when specifically approved by the City of Greenfield Police Department Traffic Safety Officer.
- 2. The Worksite Traffic Control Manual as published by INDOT shall be used as a guideline for establishing traffic control and safety measures for all road cuts and pavement repairs.
- 3. The worksite must be completely protected from vehicular and pedestrian traffic at all times. The use of Type II Barricades with flashing lights or drums with flashing lights is required.
- 4. All Traffic Control and Safety Equipment and sufficient personnel to erect and operate the equipment must be onsite before any construction in the Right-of-Way begins.
- B. PERMIT REQUIRED
- 1. A Right of Way Cut Permit is required before any work is performed in the City Right-of-Way.
- 2. The Right Of Way Cut Permit is issued by the City Engineers Office.



STANDARD DETAIL

CONCRETE STREET CUT REPAIR DETAIL

Dwn.By: D.Rodgers Origin Date: 12/29/98

Des. No: R-102-01 Rev. Date: 12/10/07

CONCRETE PAVEMENT REPAIR SPECIFICATIONS

I. <u>MATERIALS</u>

A. CONCRETE

- 1. Concrete shall be a High-Early-Strength mix capable of supporting vehicular traffic within 12 hours.
- 2. Concrete Material shall meet the requirements of Section 702 of the INDOT Standard Specifications.
- 3. INDOT Standard Specifications Section 501.10 Limitations of Mixing shall govern the placement of concrete in cold weather.
- 4. The required thickness of the concrete patch is based on the Thoroughfare Designation as established by the Greenfield Comprehensive Plan.
- 5. J-Bars are required as shown in the drawing. Other types of load transfer joints may be approved prior to construction.

B. BEDDING AND BACKFILL

1. Granular material must be used to backfill the excavation. The material must be mechanically compacted in lifts not to exceed 12".

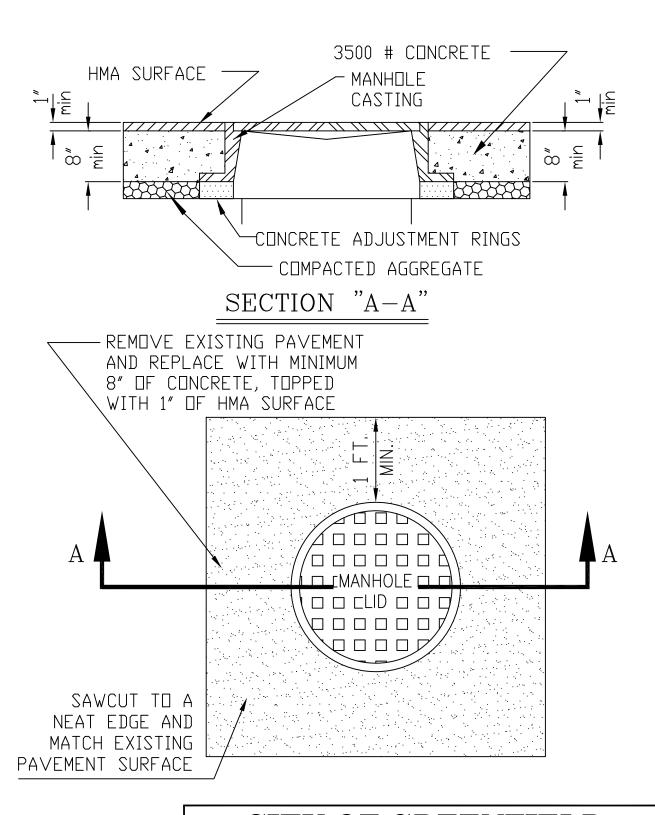
II. EXECUTION

A. TRAFFIC SAFETY

- 1. Road Closures are not allowed except when specifically approved by the City of Greenfield Police Department Traffic Safety Officer.
- 2. The Worksite Traffic Control Manual as published by I.D.O.T. shall be used as a guideline for establishing traffic control and safety measures for all road cuts and pavement repairs.
- 3. The worksite must be completely protected from vehicular and pedestrian traffic at all times. The use of Type II Barricades with flashing lights or drums with flashing lights is required.
- 4. All Traffic Control and Safety Equipment and sufficient personnel to erect and operate the equipment must be onsite before any construction in the Right-of-Way begins.

B. PERMIT REQUIRED

- 1. A Right of Way Cut Permit is required before any work is performed in the City Right-of-Way.
- 2. The Right Of Way Cut Permit is issued by the City Engineers Office.



STANDARD DETAIL

Manhole Casting Adjustment in Asphalt Street

Dwn.By: D.Rodgers Origin Date: 01/05/99

Des. No: R-106-02 Rev. Date: 9/30/10

MANHOLE ADJUSTMENT IN ASPHALT STREET SPECIFICATIONS

I. <u>MATERIALS</u>

A. CONCRETE

- 1. Concrete shall be a High-Early-Strength mix capable of supporting vehicular traffic within 12 hours.
- 2. Concrete Material shall meet the requirements of Section 702 of the INDOT Standard Specifications.
- 3. INDOT Standard Specifications Section 501.10 Limitations of Mixing shall govern the placement of concrete in cold weather.
- 4. The required thickness of the concrete patch is based on the Thoroughfare Designation as established by the Greenfield Comprehensive Plan.
- 5. J-Bars are required as shown in the drawing. Other types of load transfer joints may be approved prior to construction.

B. ASPHALT

1. Ashalt Material shall meet the requirements of Section 403 of the I.D.O.T. Standard Specifications.

C. CASTING

- 1. Casting shall be East Jordan Iron Works casting #1020 & 1022 or approved equal.
- 2. Lid shall be stamped with the words "CITY OF GREENFIELD SANITARY" or "CITY OF GREENFIELD STORM".
- 3. Joint sealant under the casting shall be two rings of non-hardening butyl rubber rope, Conseal or equal. (Kent Seal is not acceptable)

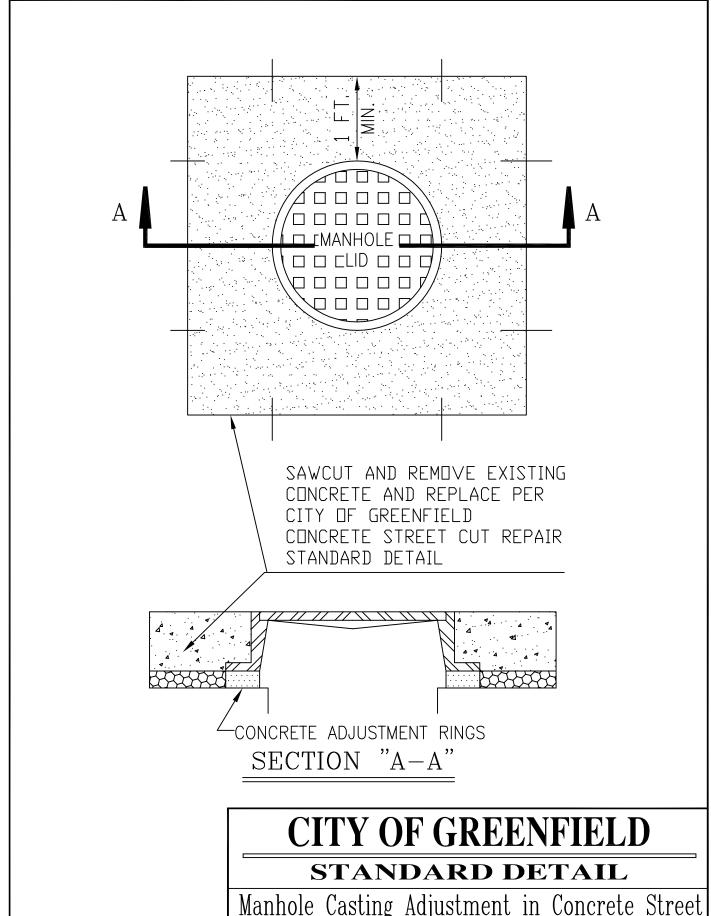
II. EXECUTION

A. TRAFFIC SAFETY

- 1. Road Closures are not allowed except when specifically approved by the City of Greenfield Police Department Traffic Safety Officer.
- 2. The Worksite Traffic Control Manual as published by I.D.O.T. shall be used as a guideline for establishing traffic control and safety measures for all road cuts and pavement repairs.
- 3. The worksite must be completely protected from vehicular and pedestrian traffic at all times. The use of Type II Barricades with flashing lights or drums with flashing lights is required.
- 4. All Traffic Control and Safety Equipment and sufficient personnel to erect and operate the equipment must be onsite before any construction in the Right-of-Way begins.

B. PERMIT REQUIRED

- 1. A Right \Box f Way Cut Permit is required before any work is performed in the City Right-of-Way.
- 2. The Right Of Way Cut Permit is issued by the City Engineers Office.



Manhole Casting Adjustment in Concrete Street

Dwn.By: D.Rodgers Origin Date: 01/05/99 Des. No: R-107-01 Rev. Date: 12/10/07

MANHOLE ADJUSTMENT IN CONCRETE STREET SPECIFICATIONS

I. MATERIALS

A. CONCRETE

- 1. Concrete shall be a High-Early-Strength mix capable of supporting vehicular traffic within 12 hours.
- 2. Concrete Material shall meet the requirements of Section 702 of the INDOT Standard Specifications.
- 3. INDOT Standard Specifications Section 501.10 Limitations of Mixing shall govern the placement of concrete in cold weather.
- 4. The required thickness of the concrete patch is based on the Thoroughfare Designation as established by the Greenfield Comprehensive Plan.
- 5. J-Bars are required as shown in the drawing. Other types of load transfer joints may be approved prior to construction.

B. CASTING

- 1. Casting shall be East Jordan Iron Works casting #1020 & 1022 or approved equal.
- 2. Lid shall be stamped with the words "CITY OF GREENFIELD SANITARY" or "CITY OF GREENFIELD STORM".
- 3. Joint sealant under the casting shall be two rings of non-hardening butyl rubber rope, Conseal or equal. (Kent Seal is not acceptable)

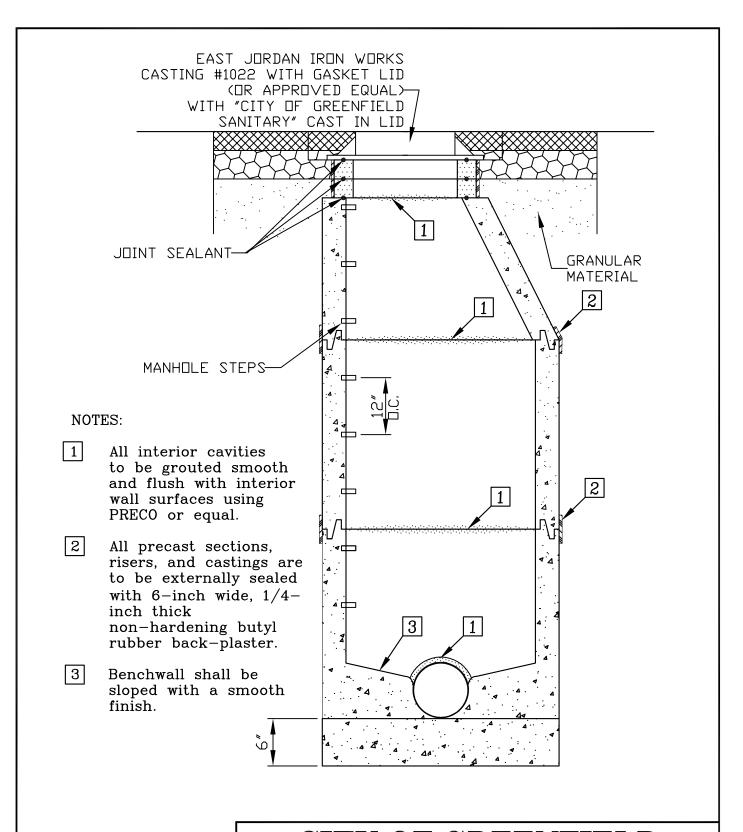
II. EXECUTION

A. TRAFFIC SAFETY

- 1. Road Closures are not allowed except when specifically approved by the City of Greenfield Police Department Traffic Safety Officer.
- 2. The Worksite Traffic Control Manual as published by I.D.O.T. shall be used as a guideline for establishing traffic control and safety measures for all road cuts and pavement repairs.
- 3. The worksite must be completely protected from vehicular and pedestrian traffic at all times. The use of Type II Barricades with flashing lights or drums with flashing lights is required.
- 4. All Traffic Control and Safety Equipment and sufficient personnel to erect and operate the equipment must be onsite before any construction in the Right-of-Way begins.

B. PERMIT REQUIRED

- 1. A Right \Box f Way Cut Permit is required before any work is performed in the City Right-of-Way.
- 2. The Right of Way Cut Permit is issued by the City Engineers Office.



STANDARD DETAIL

SANITARY SEWER MANHOLE

 Dwn.By: D.Rodgers
 Origin Date: 01/04/99

 Des. No: SN-115-02
 Rev. Date: 08/01/08

SANITARY SEWER MANHOLE SPECIFICATIONS

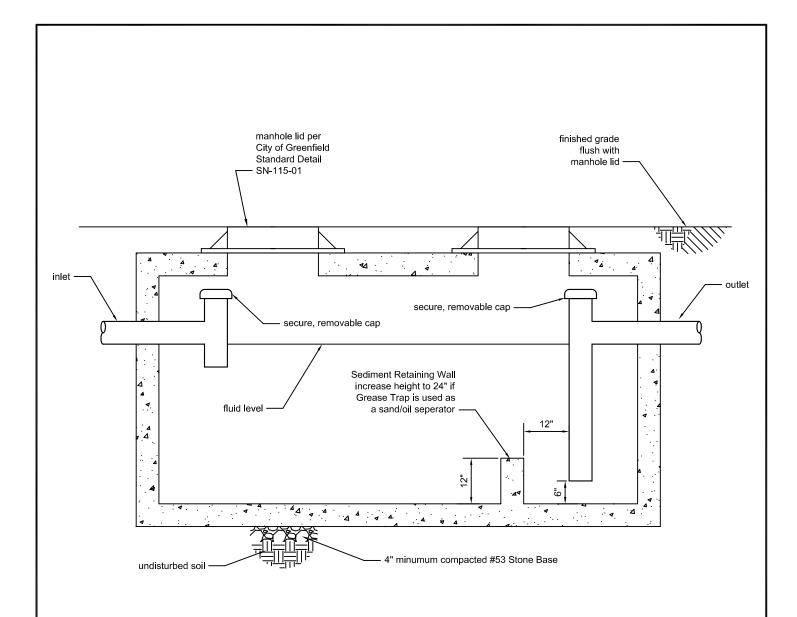
I. MATERIALS

- A. CASTING
- 1. Casting shall be East Jordan Iron Works casting 1022 or approved equal with Gasketed Lid.
- 2. Lid shall be stamped with the words "CITY OF GREENFIELD SANITARY".
- 3. A minimum of 4" and a maximum of 12" of concrete adjustment rings shall be installed under the casting.
- 4. Joint sealant under the casting, between the adjustment rings and between the adjustment rings and the manhole shall be two rings of non-hardening butyl rubber rope, Conseal or equal. (Kent Seal is not acceptable)
- B. CONCRETE MANHOLE
- 1. 48" diameter precast concrete sections shall be used to construct the manhole barrel.
- 2. A flat-top may not be used in place of a cone section unless specifically approved by City Officials <u>before construction begins</u>.
- 3. All openings for sewers entering and leaving the manhole shall be core-drilled and fitted with a resilient, watertight connector.
- 4. All joints shall be fully sealed and watertight. The use of a rubber gasket is required.
- 5. The steps shall be made of plastic-coated steel and shall be placed as shown on the drawing.
- 6. The invert must be constructed as shown on the drawing.
- 7. Lateral Taps into manholes are <u>not</u> allowed.
- C. BEDDING AND BACKFILL
- 1. The manhole must be constructed directly upon undisturbed soil or a minimum of 6" of compacted crushed stone.
- 2. Granular material must be used to backfill the excavation. The material must be mechanically compacted in lifts not to exceed 12".

II. EXECUTION

- A. INSPECTIONS
- 1. The manhole must be inspected by the Wastewater Treatment and Collections Department designated Inspector before the excavation is backfilled.

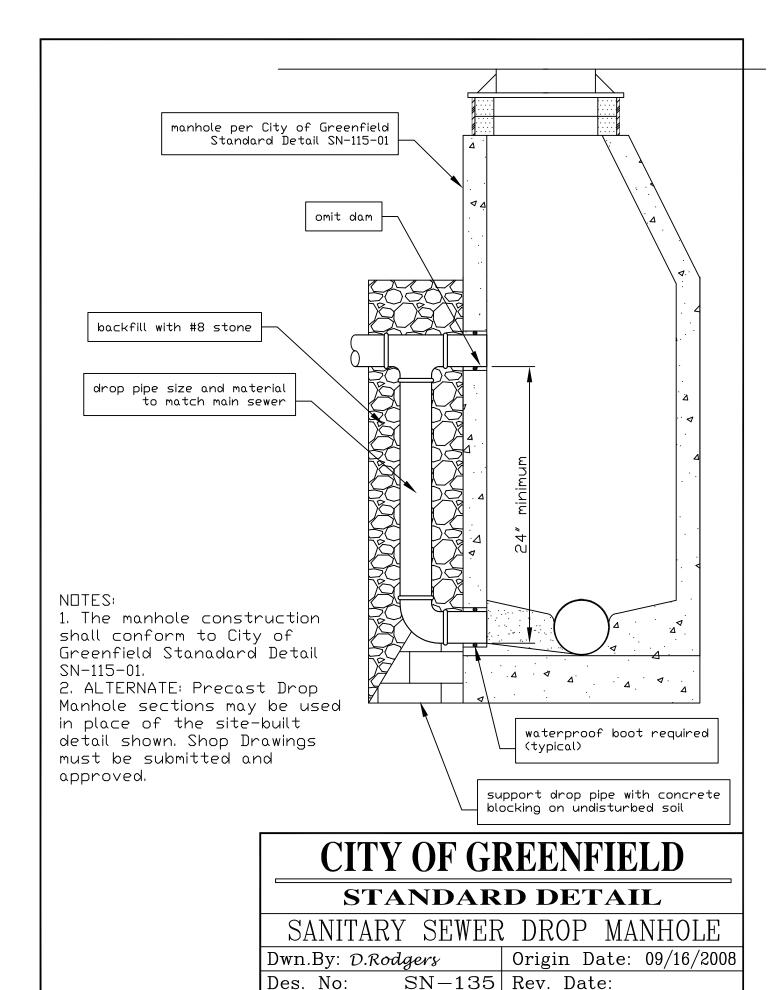
Call 477-4360

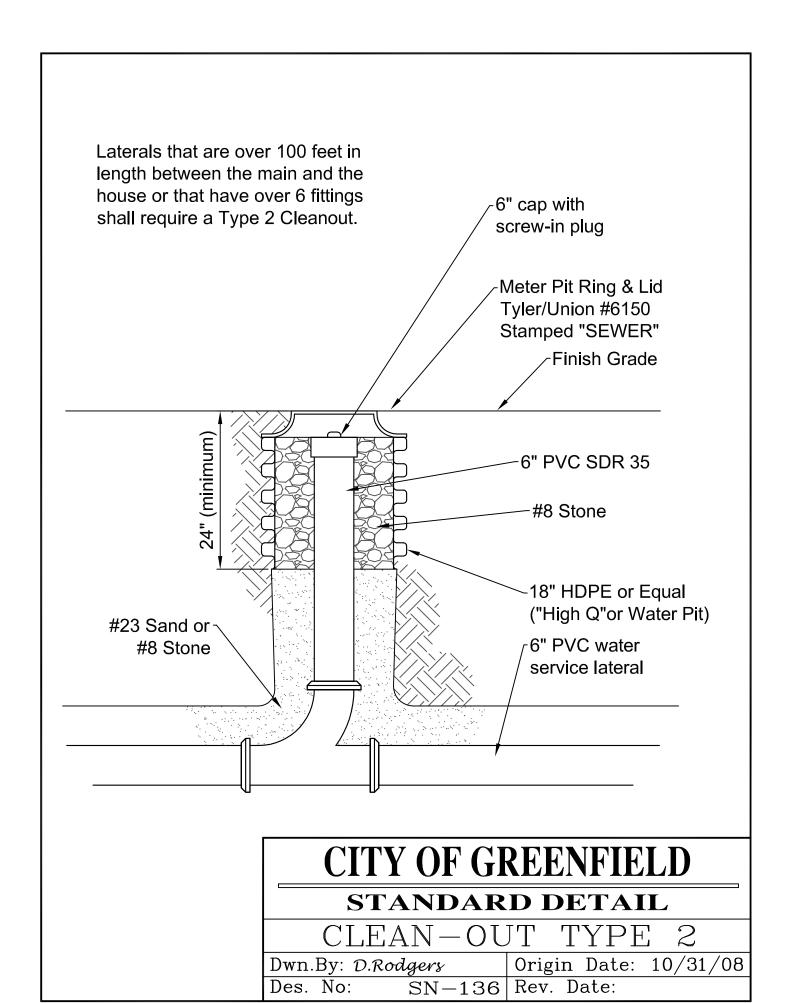


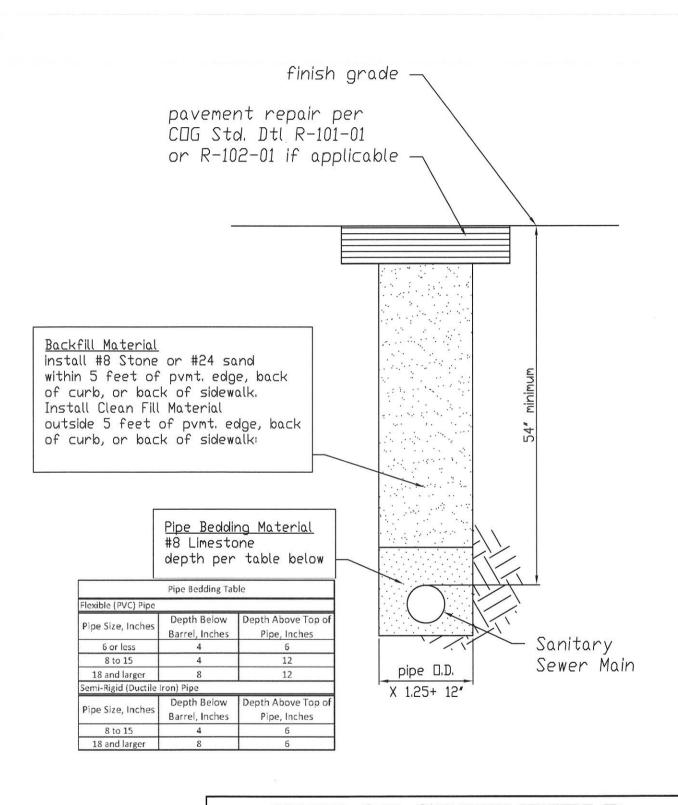
NOTES:

- 1. To facilitate cleaning, manhole lid openings must not be obstructed by the inlet or discharge piping assemblies.
- 2. This structure n conditions.

must be designed to withstand H20 loading		
	CITY OF GREENFIELD STANDARD DETAIL	
	Commercial	Grease Trap
	Dwn.By: D.Rodgers	Origin Date: 09/04/08
	Des. No: SN-134	
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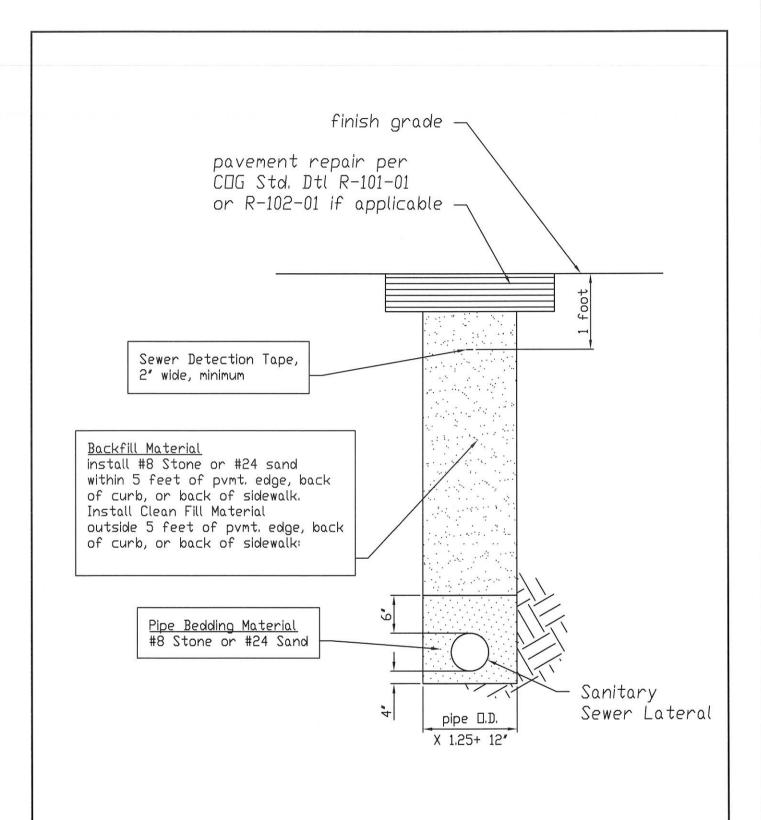
STANDARD DETAIL

Mainline Sewer Backfill and Bedding

Dwn.By: D.Rodgers

Origin Date: 1/12/2016

Des. No: SN-137 Rev. Date:



STANDARD DETAIL

Sewer Lateral Backfill and Bedding

Dwn.By: D.Rodgers

Origin Date: 1/13/2016

Des. No: SN-138 Rev. Date: