

bypass plan to be submitted that includes, at a minimum, 100% redundancy, 24-hour backup pumping equipment/generator, emergency contact numbers, qualified personnel to provide continuous supervision of bypass pumping system, traffic control, surface pipe restrictions, etc., complete to accomplish the bypass pumping operation.

3.02 SPLICE

When a pipe is to be spliced into an existing sewer, the existing sewer shall be exposed and then mechanically cut at right angles to the pipe barrel, with sufficient length removed so that a pipe section with plain ends can be joined to the cut pipe with approved couplings to form an airtight joint. All work shall be done in the presence of the Engineer. Care must be taken to fill all voids under and around the pipe splice with import or approved native backfill material to properly support the new pipe and prevent any settlement of the spliced section.

3.03 MANHOLE

Manholes shall be sound watertight structures, constructed as shown on the Standard Details or on the improvement plans in the case of special structures. The type of manhole and its location is to be shown on the Plans. The manhole shall be constructed to the rim elevations shown on the Plans. The design, the specification and the name of the manufacturer shall be submitted to the District for approval prior to the purchase of any precast manhole units.

Types of Manholes:

1. Brick Manholes

Brick manholes are not authorized or accepted. Existing brick manholes shall be replaced per current District standards when new connections are made.

2. Standard Manholes

Standard manholes, consisting of base, riser, and top, are precast reinforced concrete manholes with concentric cones, and are forty-eight (48) inch diameter for main sewers and sixty (60) inch diameter (min.) for trunk sewers.

3. Drop Manholes

Drop manholes are standard manholes with an **inside drop connection**. Drop manholes shall be installed where the invert of the pipe into the manhole is greater than 2 feet above the invert out of the manhole and shall be constructed in accordance with detail SS-8.

4. Siphon Manholes

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cases, the grade rings and cast rings shall be installed after the street section has been completed.

3. Joints between precast sections shall have a "Ram-Nek" flexible plastic gasket installed between the tongue and groove joint to make a watertight joint. After the shaft is in place, the joint shall be trimmed smooth with a sharp tool on the inside of the manhole. All seams shall be sealed inside/outside with grout.
4. Manhole access, section joints, and pick holes shall be sealed with "WrapidSeal™" (sold by CCI Pipeline Systems) sheet roll encapsulation.
5. Manhole sections will be ordered without steps. Precast manhole base blocks, shall have a standard pipe bell cast into the base block. Rubber boot type connections are prohibited.

G. DROP CONNECTIONS

When a drop connection is shown on the Plans, it shall be included as part of the manhole construction. The drop shall be made with approved fittings inside the manhole shaft as shown on the ~~Standard Detail SS-8. The lowest pipe shall be constructed into the base block by aforementioned channeling procedures. The base block shall be enlarged to encase these lower fittings.~~

After the manhole shaft is in place, the upper pipe run shall be constructed through the precast wall. The hole between the pipe and the precast section shall be mortared to a watertight condition. ~~This pipe and drop shall then be encased in concrete to the point where the upstream cover trench is of normal width and depth.~~

H. MANHOLE CASTINGS

Manhole frame and cover shall be Class 30 cast iron designed as shown on the Standard Details and conforming to ASTM Designation A-48. Manufacturer's name, initials or logotype shall be cast in the frame and cover. The bearing surfaces of the frame and cover shall be machined and the cover shall seat firmly without rocking. Before leaving the foundry, all casting shall be protected with an asphalt coating as follows:

1. The surface to be protected shall be clean, uncoated cast iron free of oil, grease, scale or rust.
2. The casting shall be painted with asphalt paint or as an alternative the entire casting shall be dipped in asphalt paint.

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prohibited, but may be allowed if the Contractor secures an Encroachment Agreement from the District.

D. SEPTIC TANK

Every cesspool, septic tank, and seepage pit which has been abandoned or has been otherwise discontinued from further use, shall be abandoned per Napa County Environmental Management standard.

E. GREASE INTERCEPTORS

Immediately prior to abandonment, grease interceptors shall be pumped and cleaned of debris, shall have 3-inch diameter holes drilled every 12-inches through the bottom of the structure to provide drainage of groundwater, and shall be filled and compacted with cement slurry, or as approved by the Engineer.

All existing sewer laterals shall be disconnected from grease interceptors to be abandoned. Reconnect laterals with approved couplings and pipe materials.

6.11 GREASE AND OIL COLLECTION SYSTEMS

A. GENERAL

For the purposes of this specification section, a restaurant is any facility that prepares or serves food to non-family members. This includes full-service restaurants, fast food restaurants, take-out restaurants, recreation facilities, cafeterias for employees, grocery store take-out facilities, catering facilities, bakeries, delicatessens etc.

All restaurants shall be equipped with grease interceptors ~~and/or grease traps~~ designed to limit the discharge of grease and oil to the District's sewer system. The size and type of restaurant shall dictate the size and type of the grease trap or grease interceptor required. ~~The minimum sizes and types specified are subject to review by the Engineer and sized and installed according to criteria in the current Uniform Plumbing Code.~~ No grease traps are allowed what so ever. The minimum size of a grease interceptor is 1200 gallons.

B. GREASE INTERCEPTORS

Food service facilities shall have an outside grease interceptor installed per the requirements of the current edition of the Uniform Plumbing Code.

1. Designation as a grease intensive restaurant shall be as determined by the ~~Town District~~ Engineer. Grease interceptors shall be two-compartment interceptors with sampling box as shown in the Standard Details and shall be manufactured by Jensen Precast, or approved equal.

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2. All new construction for restaurants shall have grease interceptors. Existing restaurants may be required to install a grease interceptor at ~~District~~ Engineer's discretion.
3. Grease waste lines shall be marked by dig tape indicating grease line feeding the grease interceptor. Alternative marking may be allowed at the District Engineer's discretion.
4. The following table shows the plumbing fixture connection requirements:

Fixture	Connect Direct to Sewer	Connect to Grease Interceptor
Pot Sink		X
Prep Sink		X
3-Compartment Sink		X
Vegetable Prep Sink	X	
Kitchen Mop Sink		X
Floor Drain (in kitchen)		X
Hand Wash Sink (in kitchen)	X	
Dishwasher		X
Garbage Disposal	X	
Commercial Trash Compactor		X
Trash Enclosure		X
Floor Sink (for beverage dispenser)	X	
Condensate Discharge	X	
Walk-in Cooler Discharge	X	

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C. **GREASE TRAPS**

~~The District may also allow the use of a grease trap in lieu of a grease interceptor for tenant improvement projects where it is not feasible to install a grease interceptor or when the grease generation from the facility is low, as determined by the District Engineer. Low grease generation facilities may include those categorized as minor food service based on NapaSan Code categories. Grease traps shall be sized and installed per the current edition of the Uniform Plumbing Code.~~

~~The following table shows the plumbing fixture connection requirements:~~

Fixture	Connect Direct to Sewer	Connect to Grease Trap
Pot Sink		X
Prep Sink		X
3 Compartment Sink		X
Vegetable Prep Sink	X	
Kitchen Mop Sink	X	
Floor Drain (in kitchen)	X	
Dishwasher	X	
Garbage Disposal	X	
Floor Sink (for beverage dispenser)	X	
Condensate Discharge	X	
Walk in Cooler Discharge	X	

D. **OTHER REQUIREMENTS**

1. Trash compactors and trash enclosures serving food service facilities shall drain to the grease interceptor serving the food service facility.
2. Grease interceptors shall also be installed at other commercial or industrial establishments as deemed necessary by the District.

6.12 OUTDOOR SINK REQUIREMENTS

A. **OUTDOOR SINKS ON RESIDENTIAL PARCELS**

1. Option 1:
 - a) Cover outdoor sink (when not in use) with a device that will not allow rain water to enter into the sewer system.

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