

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO
 LOCAL SEWER SYSTEMS SECTION
MWRD TYPICAL GENERAL NOTES

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COMMENTS

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| 1. The MWRD Local Sewer Systems Section Field Office must be notified at least two (2) working days prior to the commencement of any work (call 708-588-4055). | Required in all cases. |
| 2. Elevation datum is _____
Conversion equation _____ | State if CCD or USGS: or provide conversion equation if other datum is used. |
| 3. All floor drains shall discharge to the sanitary sewer system. | If none, state "no floor drains". |
| 4. All downspouts and footing drains shall discharge to the storm sewer system. | If none, state "no footing drains and downspouts". |
| 5. All sanitary sewer pipe materials and joints (and storm sewer pipe materials and joints in a combined sewer area) shall conform to: | Required in all cases. Specify pipe material and joint specifications. If project is in a combined sewer area, include storm sewer. |

<u>Pipe Material Spec.</u>	<u>Joint Spec.</u>
<u>Vitrified Clay Pipe</u>	
VCP C-700	C-425
VCP (No-Bel) C-700	
Joint	C-425
Collar	D-1784
<u>Concrete Pipe C-14</u>	
RCP C-76	C-443
ACP C-428	D-1869
<u>ABS Sewer Pipe</u>	
Solid Wall 6" dia. SDR 23.5	
ABS D-2751	D-2751
<u>ABS Composite/Truss Pipe</u>	
8"-15" dia.	
ABS D-2680	D-2680
<u>PVC Gravity Sewer Pipe</u>	
6"-15" dia. SDR 26	
D-3034	D-3212 or D-2855
18"-27" dia. F/dy=46	
F-679	D-3212 or D-2855
CISP A-74	C-564
DIP A-21.51	A-21.11

The Following Materials are allowed on A Qualified Basis: (When one of these materials is used for sewer construction, a special condition will be added to the Permit.)

<u>Pipe Material Spec.</u>	<u>Joint Spec.</u>
<u>PVC Corrugated</u>	
with a smooth interior, 4" -18" dia. F-949	
	D-3212 or D-2855
<u>PVC Profile Gravity Sewer</u>	
PVC F-794	D-3212 or D-2855
<u>PVC Composite/Truss Pipe</u>	
8"-15" dia. PVC D-2680	
	D-2680 or D-3212
<u>Type PS-46 PVC Gravity Sewer</u>	
F-789	D-3212 or D-2855
(Must meet the performance requirements of D-3034, SDR-26)	
<u>High Density Polyethylene (HDPE) Plastic Pipe</u>	
Polyethylene (HDPE) Sewer Pipe shall conform to Type III, Class B (or better), category 5, Grade P34 as defined in ASTM D-1248 and/or D-3350 with a cell classification PE 345434C or higher. The joining method shall conform to ASTM D-2657.	

(Note: The District has approved less common pipematerials on a qualified basis in addition to those above. Please contact the District if considering using pipe not listed above.)

6. All sanitary sewer construction (and storm sewer construction in combined sewer areas), requires stone bedding with stone ¼ " to 1" in size, with minimum bedding thickness equal to ¼ the outside diameter of the sewer pipe, but not less than four (4) inches nor more than eight (8) inches. Material shall be CA-11 or CA-13 and shall be extended at least 12" above the top of the pipe when using PVC.
 - Can be omitted if IDOT equiv. CA 11 or 13) bedding detail is submitted.
 - Alternately, if a detail is provided, the general note should make a reference to that detail.
 - Not required for ductile iron pipe.
 - Can also be concrete embedment.

7. "Band Seal" or similar flexible-type couplings shall be used in the connection of sewer pipes of dissimilar materials.
 - Required in all cases.
 - Alternately, if a detail is provided, the general note should make a reference to that detail.

8. When connecting to an existing sewer main by means other than an existing wye, tee, or an existing manhole, one of the following methods shall be used:
 1. Circular saw-cut of sewer main by proper tools ("Shower-Tap" machine or similar) and proper installation of hub-wye saddle or hub-tee saddle.
 2. Remove an entire section of pipe (breaking only the top of one bell) and replace with a wye or tee branch section.
 3. With pipe cutter, neatly and accurately cut out desired length of pipe for insertion of proper fitting, using "Band Seal" or similar couplings to hold it firmly in place.
 - Required in all cases.
 - Alternately, if a detail is provided, the general note should make a reference to that detail.

9. Whenever a sanitary/combined sewer crosses under a watermain, the minimum vertical distance from the top of the sewer to the bottom of the watermain shall be 18 inches. Furthermore, a minimum horizontal distance of 10 feet between sanitary/combined sewers and watermains shall be maintained unless: the sewer is laid in a separate trench, keeping a minimum 18" vertical separation; or the sewer is laid in the same trench with the watermain located at the opposite side on a bench of undisturbed earth, keeping a minimum 18" vertical separation. If either the vertical or horizontal distances described above can not be maintained, or the sewer crosses above the watermain, the sewer shall be constructed to watermain standards.
 - Required in all cases.
 - Alternately, if a detail is provided, the general note should make a reference to that detail.

10. All existing septic systems shall be abandoned. Abandoned tanks shall be filled with granular material or removed.
 - Use when existing septic system is to be abandoned.

11. All sanitary manholes, (and storm manholes in combined sewer areas), shall have a minimum inside diameter of 48 inches, and shall be cast in place or pre-cast reinforced concrete.
 - Required in all cases.
 - Alternately, if a detail is provided, the general note should make a reference to that detail.