

# City of Marysville

## Street and Storm Sewer Notes to be on all Future Plans

Revised 25-Apr-07

1. The developer/owner shall, prior to any construction operations, deposit with the **City of Marysville**, the total estimated cost for inspections..
2. All manholes shall be City of Marysville standard precast concrete manholes as shown on the standard construction drawings. Casting to be **NEENAH #R-1762** or equal, with "Marysville Storm Sewer" cast into the lid.
3. Manhole castings are to be set, or subsequently adjusted to **2"** above the surface grade established by the engineer. All adjustments shall be performed using precast rings.
4. Catch Basins and Curb Inlets shall be precast concrete or concrete brick laid in a full bed of mortar as shown on the construction drawings.
5. Catch Basin castings shall be **NEENAH R-3067** with Type 5 Vane Grates or **EAST JORDAN IRON WORKS #7030** with Type **M4 Vane Grate**.
6. All curb inlet and catch basin castings shall be permanently cast with a **Trout emblem** and "**Dump No Waste**", "**Drains to Waterways**" messages to clearly identify sewer.
7. Storm sewer located within proposed or existing pavement shall conform to **ODOT 706.02**, and shall be Class B conduit. Storm sewer outside the pavement area shall be Class C conduit, and conform to **ODOT 707.32**.
8. All sanitary and storm sewers constructed with flexible conduit shall have bedding of **ODOT 603 Type 3 (#57 stone)** extending from a point not less than 4 inches below the bottom of the pipe to a point not less than 12 inches above the crown of the pipe.
9. Any field tile disturbed during construction shall be replaced, as directed by the City Engineer, with **N-12 perforated pipe**. N-12 will be used to span the trench, or to intercept and convey to the storm sewer. Trench to be backfilled with compacted granular material.
10. All pipe outside of the right-of way shall have a minimum of 2 feet of cover. In areas where there is not 2 feet of cover, embankment shall be placed over pipe to provided minimum cover.
11. Drainage structures shall have openings for curb underdrain outlets. Underdrains to be constructed in accordance with details on site plan.
12. The flow in all sewers, drains, and watercourses encountered shall be maintained by the contractor at his own expense. Whenever such watercourses are disturbed or destroyed during the prosecution of the work, they shall be restored by the contractor, at his own expense, to a condition satisfactory to the engineer.
13. All storm sewers 12 inch through 36 inch are to be camera/video taped by the developer prior to acceptance by the City Engineer. Work to be done in the presence of a City of Marysville representative. A copy of the tape, with a summary report is to be given to the Assistant City Engineer.

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### Backfill Requirements shall be as follows

1. Storm trenches outside of the influence of streets shall require 95% of maximum dry laboratory weight at plus or minus 2% of optimum moisture. Material shall be per **ODOT 203.07 and Supplemental Specification 1015**.
2. Storm, sanitary, and utility trenches within 4 feet of the edge of pavement shall require 98% of the maximum dry laboratory weight at plus or minus 2% optimum moisture. Backfill material shall be **ODOT 304** aggregate or **ODOT 613, Low Strength Mortar**. (LSM)  
Where said results indicate the trench backfill does not meet the compaction requirements of **ODOT 203.07** of the construction and materials specification, all backfill shall be removed and retested until compaction meets the requirements of 203.07.
3. Storm, sanitary, and utility trenches under road pavement shall require 98% of the maximum dry laboratory weight at plus or minus 1.5% optimum moisture. Backfill material shall be **ODOT 304** aggregate or **ODOT 613, Low Strength Mortar**, (LSM). Backfill to begin 4 feet from edge of pavement and extend one foot in distance for every one foot of depth.  
Where said results indicate the trench backfill does not meet the compaction requirements of **ODOT 203.07** of the construction and materials specification, all backfill shall be removed and retested until compaction meets the requirements of **203.07**.
4. The order of work shall be Sanitary, Storm, and Water. Construction of the street shall not commence until sewers and water line have been completed.

### Streets, Curb and Gutter

1. Proof Rolling of both the sub-base and the compacted 304 will be conducted by the contractor  
The face of curb with the City Engineer or his representative present to witness the proof rolling.
2. An expansion joint is to be located at all radii and returns and every 400 foot reach of curb.  
Curb is to be imprint stamped above the location of the services with the appropriate letter.  
    "S" for Sanitary  
    "W" for Water  
    "X" for other Utilities
3. Temporary barricades, if required, shall be placed where indicated on the plans. They shall consist of five wooden posts measuring 9' x 4"x4", painted white, with one reflector placed 12" from the top of each. Posts are to be placed 6'-0" center to center and extended 60" above top of curb.
4. Provide pavement marking as required by the City of Marysville. Pavement markings shall conform to **ODOT 644**. Markings to be installed as soon as possible after street paving.

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## **Street and Storm Sewer Notes to be on all Future Plans**

### **Streets, Curb and Gutter (Cont.)**

5. Curb Inlets shall not be installed on the radius at intersections. They must be installed before the point of curve on the curb.
6. All traffic control signs must be high intensity Diamond grade sheeting.
7. All regulatory signs must be mounted using 8 foot, 3 lb. galvanized U-Channel base post and 8 foot, 2 lb. U-Channel galvanized top post.
8. Parking regulation signs are to be mounted on a single 8 foot, 3 lb. galvanized U-channel post.
9. All street name signs must be high intensity grade with white background with green letters. Letters and borders shall be consistent with colors currently used city wide.
10. All street signs are to be mounted on a 10 foot galvanized round post measuring 2 5/8 inches in diameter (O.D.). Sign shall be 8 feet above finished grade, and shall be set in concrete.
11. All locations and installations must be accordance with the Ohio Uniform Traffic Control Manual.