

Final Draft findings, Transportation and Utility Expansions, June 25, 2007

The City has recently completed updates to the Transportation Master Plan, Water Master Plan, and Sewer Master Plan, and is currently doing a Storm Water Master Plan. These plans cover the existing UGB and demonstrate that the UGB can be serviced, or serviced with the projects identified in each plan. Updates to all of these master plans are part of the Phase II planning work that is planned to be done following approval of the new UGB and UEA.

Throughout the current phase of the UGB/UEA planning work, the Phase I planning, issues related to the provision of streets and utilities in the proposed UGB and UEA have been reviewed and analyzed. It has been determined that the proposed UGB/UEA and URA can be served by connections to the existing road pattern and that the provision of utilities would generally follow the new road system.

The following provides the general outline of how these roads and utilities would be extended into the new UGB and UEA boundaries. It must be noted that these, with some exceptions, are general findings and that the detail of costs, locations, and sizes will need to be specifically determined in the Phase II planning work, as outlined in the planning grant document developed with the help of DLDC and ODOT staff.

SEWER

East Side

UGB (20-year)

Sewer trunk line placed within right-of-way of 15 Mile Road with lift station to get it to the 2nd Street existing sewer trunk location.

It may be more feasible to construct a dedicated eastside treatment plant with discharge into 15 Mile Creek.

URA (50-year)

Existing 2nd Street sewer trunk line will require capacity increase with build out of the 50-year URA.

The sewer treatment plant will need additional capacity to serve the URA. The land for that expansion already exists and is reserved for that purpose.

West Side

UGB

Capacity increases will be necessary for the two, 4-inch pressure lines running along the historic highway.

Capacity increases will be necessary for the main trunk line running from the pressure lines to the treatment plant.

Lower portion along Chenoweth Creek needs to tie into the force main along the historic highway.

Murray's Addition will require the 8-inch trunk line along Chenoweth Loop Road to be increased.

The sewer treatment plant will need additional capacity to serve the UGB. The land for that expansion already exists and is reserved for that purpose.

All of the UGB area can be served with a gravity system.

URA

This area can be served using a gravity feed line through the UGB expansion area.

WATER

East Side

UGB

Existing reservoir and supply source is sufficient to serve the UGB expansion area. The far northeast may need a booster system.

A new transmission line needs to be installed from the reservoir in the Columbia View Heights along 15 Mile Road.

URA

A new well source potentially needs to be developed. The City has well water and Columbia River water rights sufficient to supply this area with water.

Additional treatment facilities will be needed for the water supply.

One additional reservoir and pump station will be needed for supply and pressure.

West Side

UGB

Potential new well needed with storage reservoir, which would require new groundwater rights and may need treatment because of mineral content.

Chenoweth Water PUD has some capacity to serve a portion of the expanded UGB and is currently serving a portion of that area. Their capacity is somewhat limited.

The City's water master plan calls for improvements that would increase capacity to 12 MGD together with groundwater, service could be provided.

The City has 8.4 MGD perfected ground water rights and 25.8 MGD unperfected water rights to use in both ground water and Columbia River.

The City currently uses 8 to 9 MGD in the summer high-use season. This serves about 12,000 people and the industrial and commercial areas.

Transmission lines will need to follow major road rights-of-way.

Nearest water is at the Port land served by a 12 inch transmission line. A 16-inch looped system is needed on the Port and Northwest Aluminum property for industrial (re)development. This could then service a portion of the UGB.

URA

A new reservoir and pump station will be needed to provide volume and pressure to this area.

STORM WATER

East Side and West Side

UGB and URA

A separate system from the City's current system needs to be developed that would discharge into 15 Mile Creek (and Chenoweth Creek). Some treatment may be needed prior to discharge to meet Federal standards.

Major trunk line sizes would need to be determined. All lines would follow the street system.

STREET SYSTEM

East Side

UGB

Existing major street locations are shown on the planning map. These are Lower Eight-Mile Road and Columbia View Drive. Right-of-way widths would need to be enlarged to accommodate additional traffic from the URA. They are adequate to serve the UGB expansion area.

URA

Lower Eight-Mile Road and Columbia View Drive would serve the proposed URA. Additional major streets would extend into the URA.

West Side

UGB

Existing major street locations are shown on the planning map. These would connect into the Historic Highway at two locations and into

Chenoweth Road at two locations. Additionally, a connection would need to be made on Seven Mile Road.

URA

Additional streets in this area would connect into the major streets located in the UGB and into Seven Mile Road.