

ENCLOSURE 3

PLAN FOR NEW BLOCK VALVES

Enclosure 3

Yellowstone Pipe Line Company

Horizontal Directional Drill Under The Spokane River at MP 1.3

Plan for New Block Valves

November 2, 2015

This information is being provided to the City of Spokane, to clarify the new block valve design and to address ways to mitigate the visual impacts of the block valves on City property. This issue was discussed at a recent meeting with Tami Palmquist and Elizabeth Schoedel with the City of Spokane on October 13, 2015, in relation to YPL's forthcoming application for a Conditional Use Permit.

The suggestion by the City to enclose the block valves within a rock or brick structure does not conform to currently accepted safety design for refined petroleum products facilities. Ready access to an enclosed facility would not be available as confined space safety protocols would be required for maintenance personnel. Enclosed rock or brick structures are incompatible with current industry standards for block valve enclosures for petroleum pipelines by virtue of the nature of the materials being transported in the pipe.

YPL proposes the new block valve enclosures be constructed of black 8 foot high chain link with three strand barbwire along the top of the fence, or of beige/tan 8 foot vinyl panels also with three-strand barbwire. The barbed wire is driven by YPL's Homeland Security approved system security plans. The enclosures will require a 3 foot man gate and a 12 foot wide swing gate for access and maintenance. The enclosure fence will also have two Phillips 66 signs on all four sides indicating No Smoking and the Yellowstone Pipe Line Company's phone number. Due to the large gates required for emergency access/egress, an enclosed building is impractical and would still require a 12 foot chain link section for access.

A chain link enclosure can be fitted with vinyl slats to provide additional visual screening. Vegetation screening will be incorporated around the fence exterior using shrubs native to the region that would provide some habitat for birds and small mammals. Any vegetation and landscaping rocks would have to be positioned to allow for unimpeded gate movement and access for maintenance. Any vegetation that over time would create a canopy, would have to be positioned sufficiently far from the valve and pipeline so as not to obstruct visual surveillance from the air, and whose roots would not eventually damage the pipe.

A combination of low (< 4 feet at maturity) and medium height (4 – 8 feet at maturity) shrubs that are drought tolerant and native to Washington that may be used, depending on availability at time if planting include:

- Western Serviceberry
- Juniper

- Fernbush
- Bush cinquefoil
- True Mountain Mahogany
- Birchleaf Spirea
- Yew
- Rabbitbrush

Source:

<http://public.wsu.edu/~lohr/wcl/shrubs/shrubs.html>

Shrubs can be planted irregularly, interspersed with boulders or in a row along the fence perimeter as shown in Photo 1. Consideration should be given to fence maintenance and grounds keeping. Landscaping elements must not interfere with the normal operation and maintenance of the pipeline. Every effort will be made to mitigate the visual impacts of the block valves with vegetation. However, if unforeseen conflicts between the landscaping and pipeline operation develop over time, YPL reserves the right to alter the vegetation on its right of way to ensure pipeline integrity.

Areas adjacent to the block valves that are not planted with shrubs, will be reseeded with a weed-free species of upland grass approved by the City of Spokane. Seeded areas will be mulched with weed-free straw and crimped. Weed treatment, should it become necessary, will be conducted, by a professional applicator, licensed in the State of Washington. The disturbed areas will be monitored as required in the Storm Water Pollution Prevention Plan, until final stabilization is achieved.



Photo 1. Photo courtesy Google Earth Street View. Existing communication and control building on the north side of N Upriver Dr adjacent to N Carnahan Rd looking southeast. The new block valve will be placed immediately to the north (photo left) of the existing building. The communication building will remain.



Photo 2. Google Earth Street View showing location of proposed new block valve on the south side of the river looking towards the north from N Waterworks St.



Photo 3. Example of proposed block valve and chain link enclosure with vegetation screening.



Photo 4. Example of low shrub incorporated with boulder cluster.