

## Overall:

1. It does not appear that the two double-D inlet design can be constructed as there is not enough concrete to attach the center support for the grate for the upstream inlet, may not be enough concrete for the frame in the downstream inlet and there is the height restriction due to the WSE of 88.02 (89.02 minus 1' for freeboard)
2. Additional structural support will need to be designed as a large hole (1.5' x 4.5') is proposed in the structure(s).
2. Since this design proposes a modification to a standard drawing structure, a detail drawn to scale with dimensions and adequate steel reinforcing is required.
3. The City recommends proposing a CMP riser similar to the BHI design for Pond E at "The Trails".

This recommendation has been discussed with Shahab Biazar and Muhanned Adeeb.

## Specific Sheet Comments:

## Sheet 6R

1. Build note specifies a 1.25' x 4.5' opening and detail specifies 1.25' x 4.0 foot opening.
2. For the upstream inlet: it is not clear there is enough vertical space to construct the center support and the grate frame.

TOG is at 86 and the invert is at 84.16. Hole is 1.25 ft high. This leaves 0.59 feet for the center support and grate frame. Center support is 5" plus 4" for the grate frame is 9" or 0.75 feet.

3. It is not clear there will be enough structural support above the hole in the back of the inlet.
4. For the downstream inlet: The pipe will have to be offset (not centered) so that the center support can be constructed.

TOG is at 87.64 and the invert is at 84.06.  $87.64 - 84.06 = 3.58$ . The pipe is 30" plus 3" wall = 3 feet. This leaves 0.58 feet for the center support and grate frame. Center support is 5" plus 4" for the grate frame is 9" or 0.75 feet.

6. Please remove the word "Temporary" from "Temporary Pond".

## Sheet 15R

1. The grate elevation on the upstream inlet on Sheet 6R is shown at 86.00 and on Sheet 15R it is 86.05.

2. The east side of the downstream inlet is shown touching the 88 contour and the TOG is at 87.64. The grade at the east side of the inlet should be at least 6" below the grate elevation to keep dirt out of the inlet and allow for a couple inches of landscape rock.

Sincerely,

Curtis Cherne, PE  
Principal Engineer  
Planning Dept.