



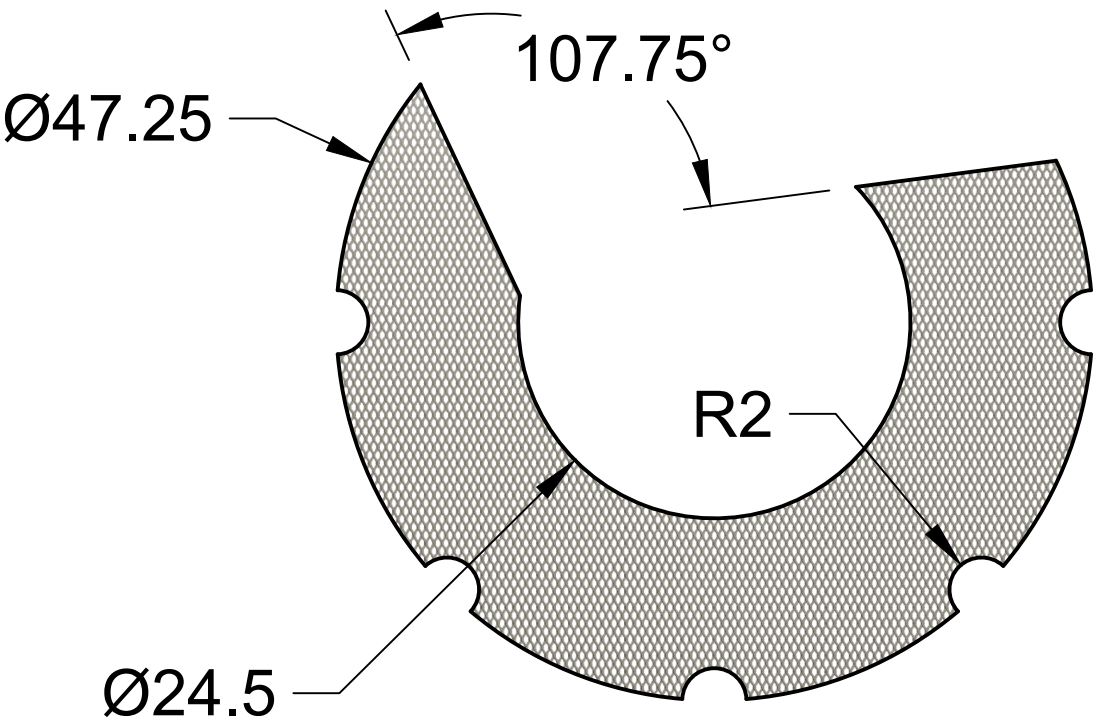
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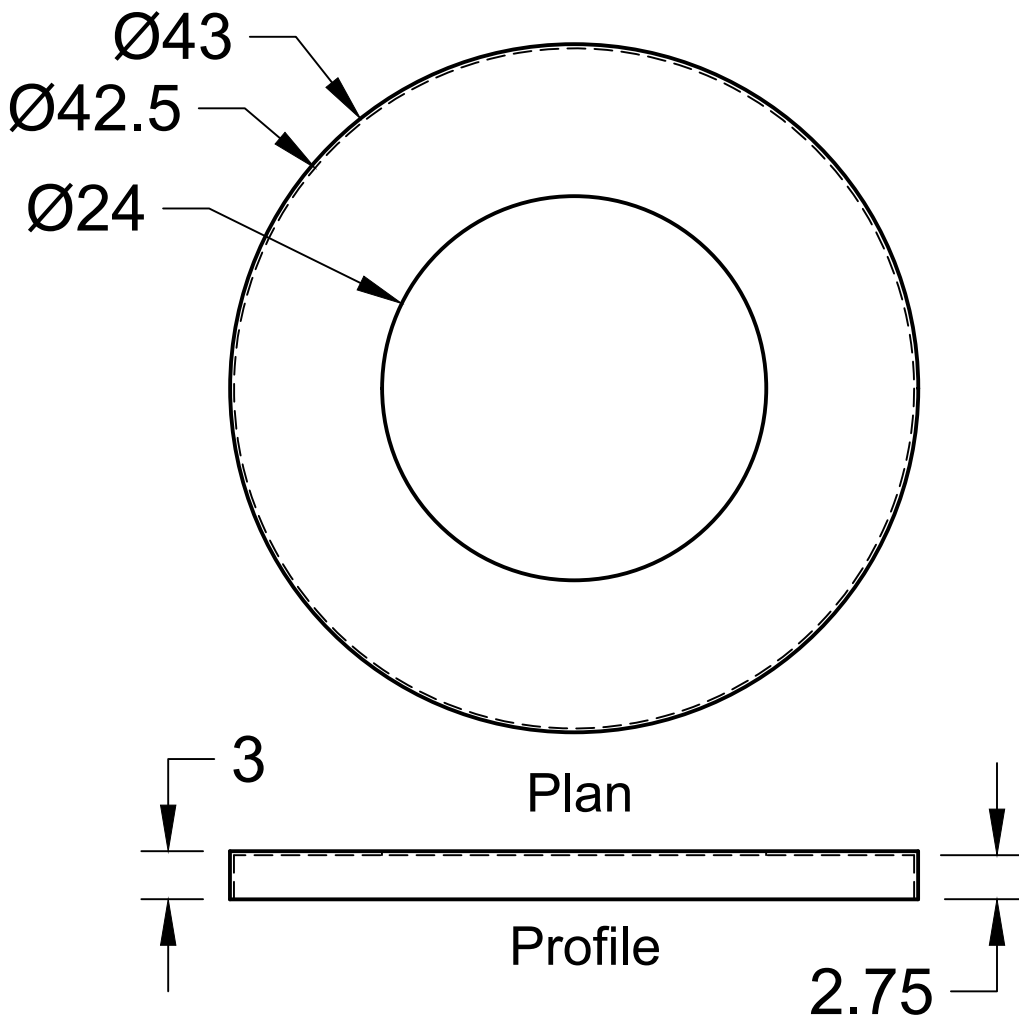
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Pretreatment Grate

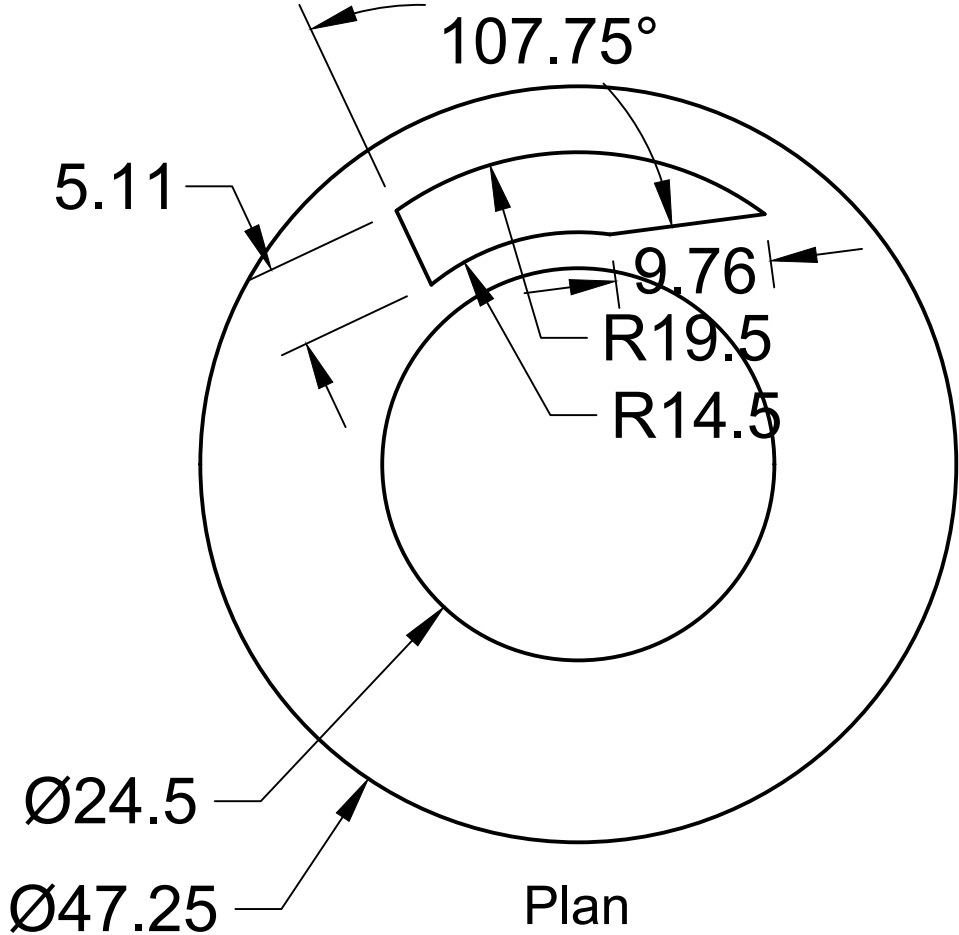


- 5 evenly spaced 2" radius holes along outside edge

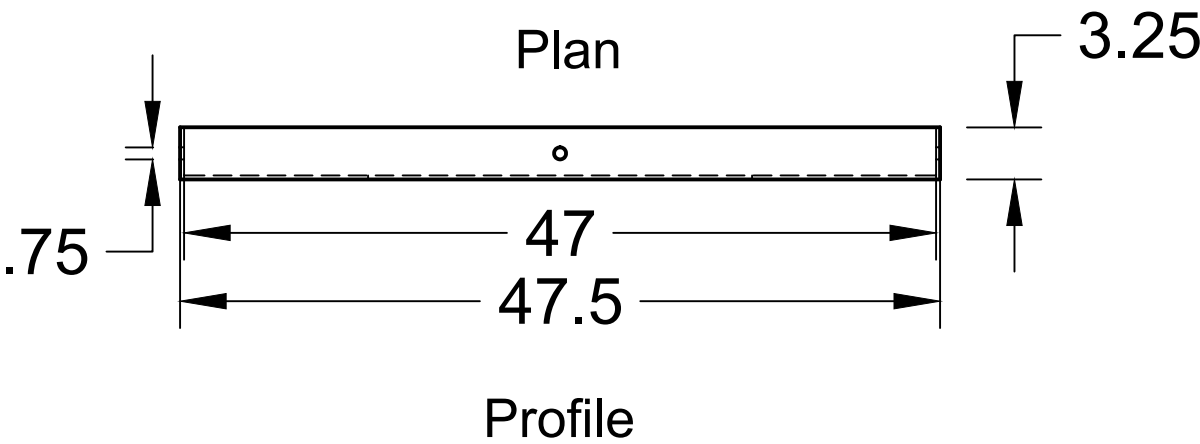
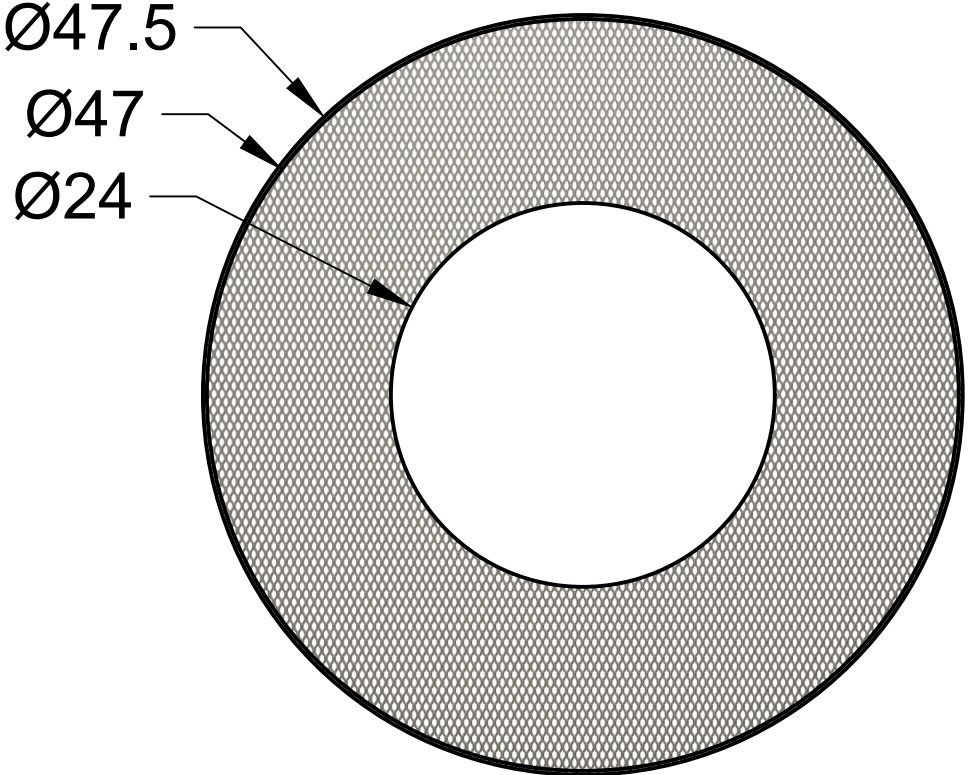
Outlet Disk



Pretreatment Disk

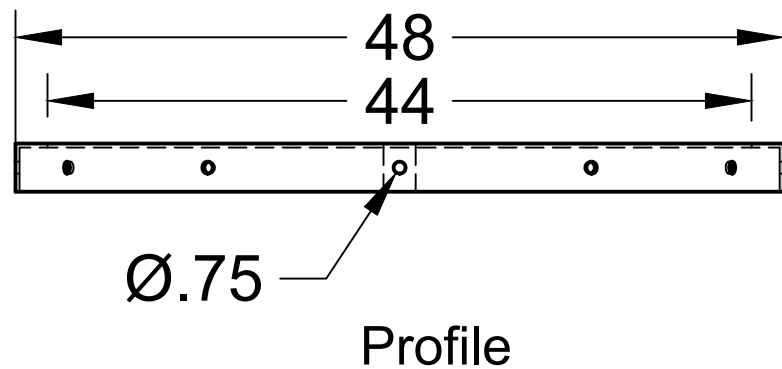
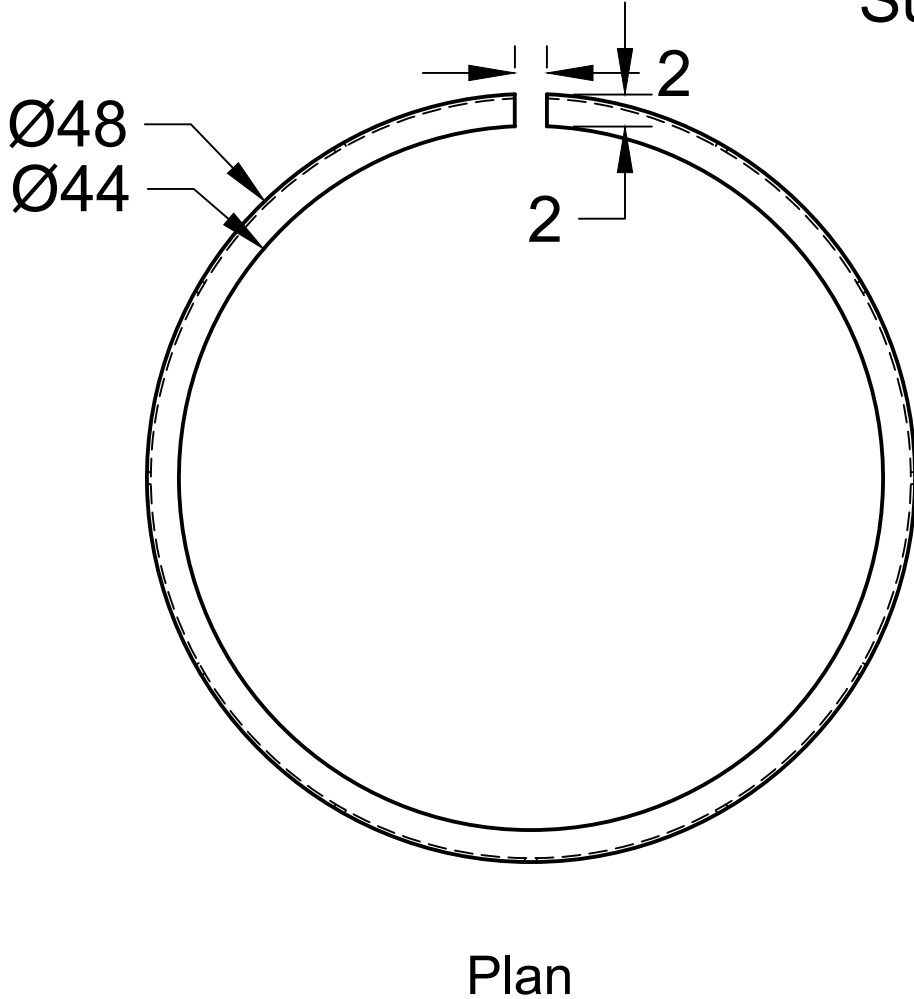


Scour Plate



- 0.20"Ø staggered holes with 32% open area
- 3" vertical flange around full circumference with four evenly spaced 0.75"Ø holes

Support Disk



- 2" ring with a 3" vertical flange around the entire circumference
- 2" strip cut out of ring
- Twelve 0.75" Ø bolt holes evenly spaced around flange
- 0.25" thick copoly

# HydroStorm HS4

Project: 115 Main Street (DMH-1)

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Date: 12/10/2024

Scale:

Rev: 1



D

C

B

A

D

C

B

A

4

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2

1

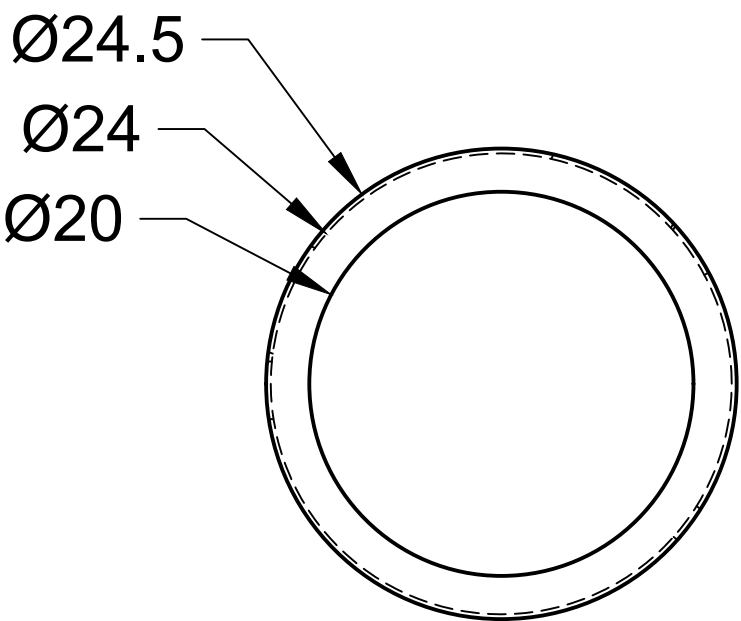
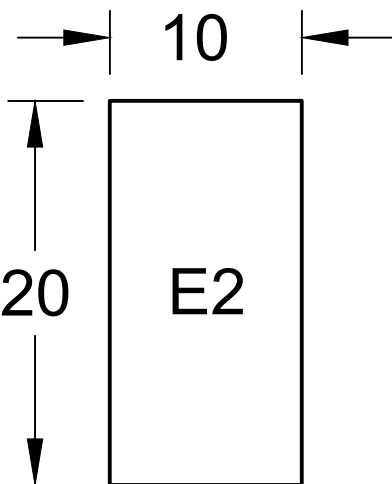
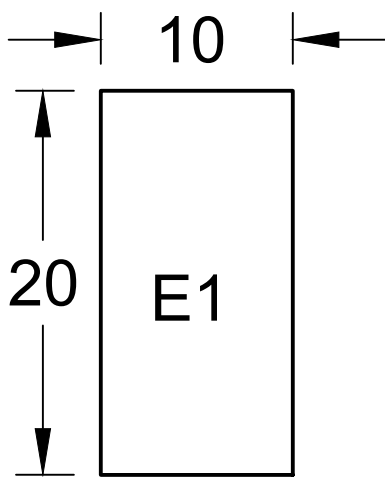
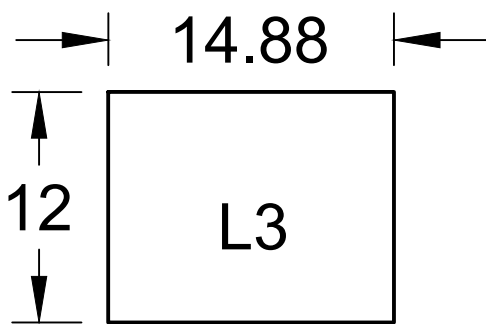
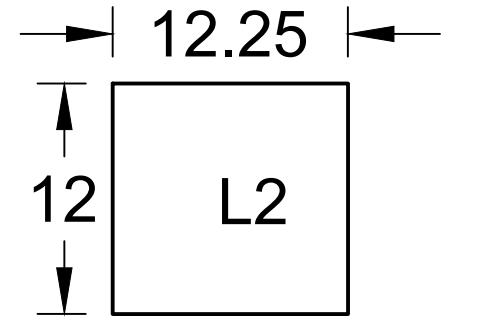
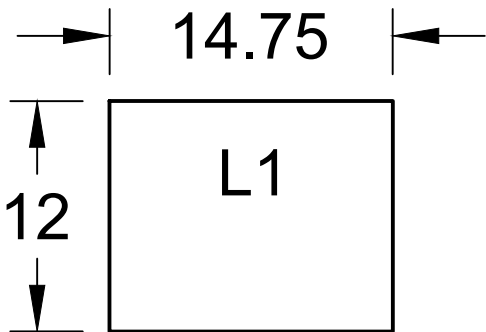
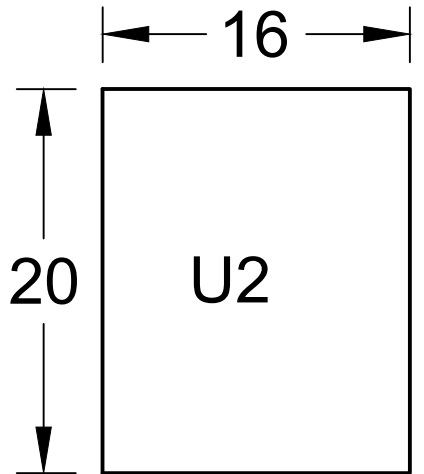
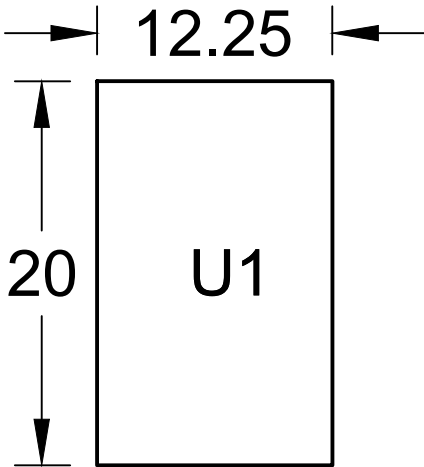
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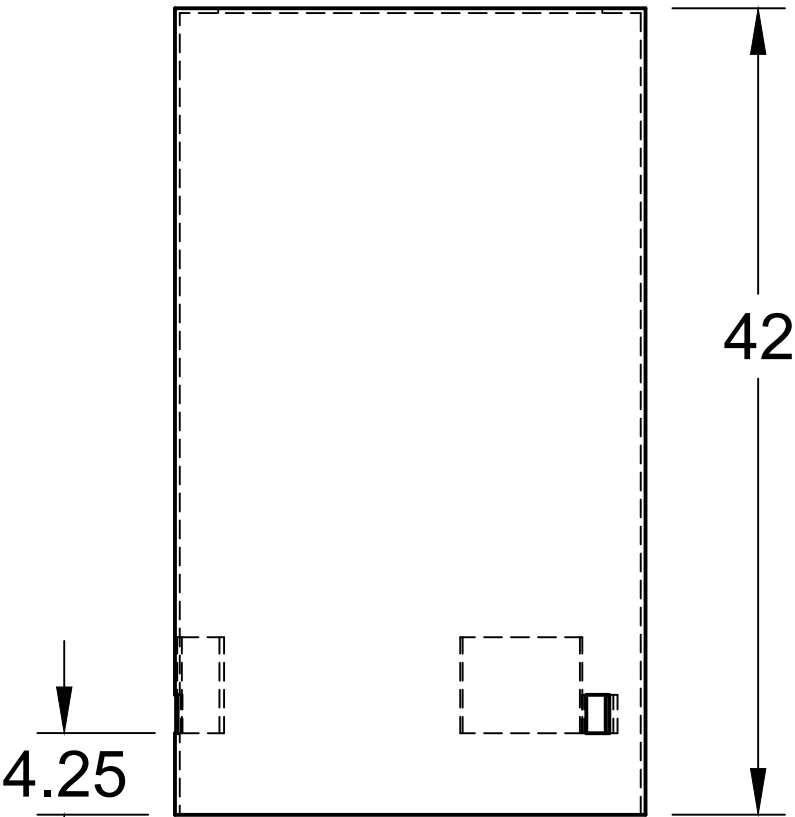
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Weirs



Plan

Inner Chamber



Profile

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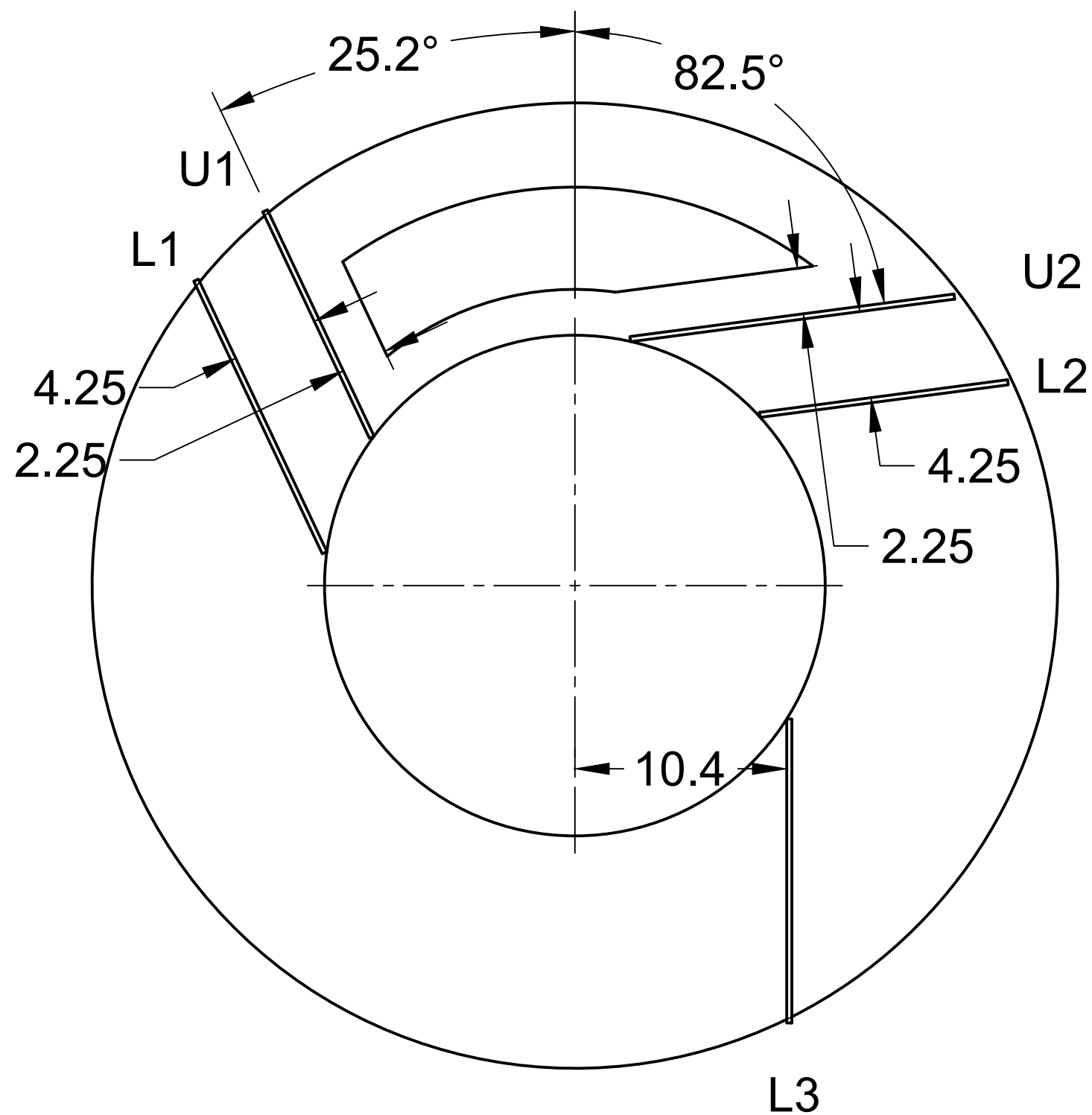
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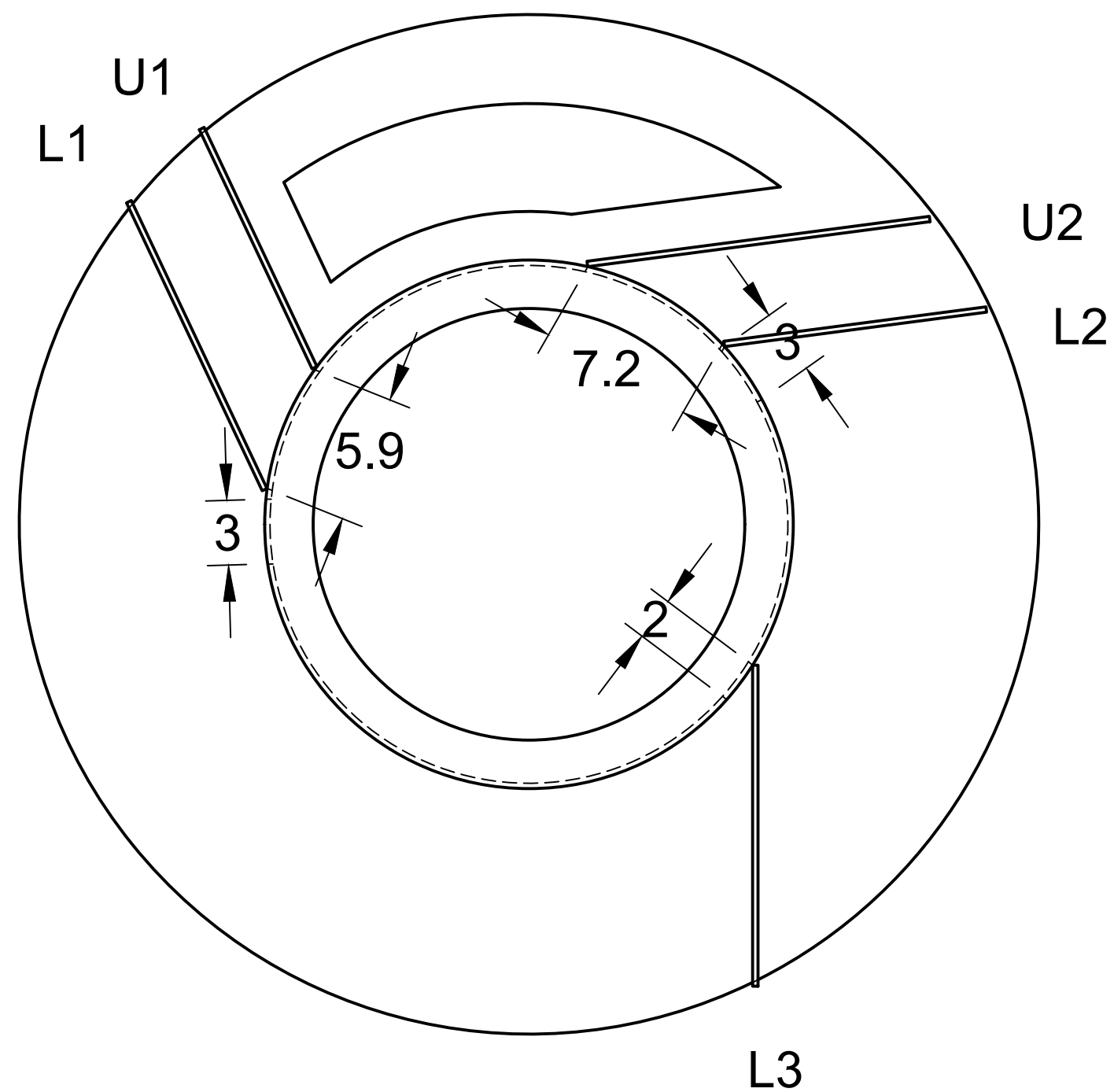
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## Weir Placement



- U1 and U2 are parallel with nearest edge of opening in pretreatment disk.
- U1 is 2.25" offset from edge of pretreatment disk opening.
- L1 is 4.25" offset from U1.
- U2 is 2.25" offset from edge of pretreatment disk opening.
- L2 is 4.25" offset from U2.
- L3 is parallel with center of outlet pipe and 10.4" offset from center.

## Inner Chamber Cutouts



- Cutout between U1 and L1 is 5.9"x5"
- Cutout between U2 and L2 is 7.2"x5"
- Cutouts on inlet sides of L1 and L2 are both 3"x2"
- Cutout on inlet side of L3 is all 2"x2"

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4

3

2

1

D

D

C

C

B

B

A

A

Outlet (12"Ø)

12

Centerline of Outlet

Ø58

Ø30

3

Inlet (8"Ø)

8

8

Inlet (8"Ø)

Center of access opening is 30"Ø

Center of access opening is offset 3" from center of top cap.

Draw a line from the center of the access opening, through the center of the top cap, to the edge of the top cap and mark a vertical line on the outside edge of the top cap labeled, "centerline of outlet."

# HydroStorm HS4

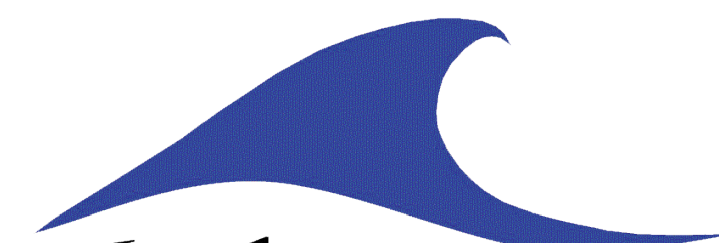
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Hydroworks

4

3

2

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Install Instructions (plant install)

Monobase

- 1. Instal the perforated plate **12"** above the floor of the structure in the base. Anchor the plate to the wall of the concrete using four 0.5"Ø x 4" long stainless steel wedge anchors, washers, and nuts.

Riser

- 2. Position the support disk so that the 2" gap is centered on the outlet pipe and the flange is facing the bottom of the structure.
- 3. Squeeze the support disk so it fits in the riser. If the 2" gap is closed and the support disk doesn't fit, use a saw to expand the 2" gap until compressing the disk will allow it to fit into the riser.
- 4. Raise the support disk until the top of the horizontal shelf of the disk is **8"** above the top of the joint of the riser.
- 5. Anchor the support disk to the wall of the concrete using twelve 0.5"Ø x 4" long stainless steel wedge anchors, washers, and nuts.
- 6. Caulk between the disk and the wall around the entire circumference with Pro-Seal 34. Any opening in the disk should be directly below the outlet pipe.
- 7. Place two generous beads of caulk on top of the support disk then lower the main insert on to the support disk so that the outlet pipe is centered between the bypass weirs and all inlet pipes are on the other side of the bypass weirs. The outlet disk should fit through the opening in the support disk and hang 4" below it with the pretreatment disk resting on it.
- 8. Connect the pretreatment disk and support disk using six stainless steel screws. Use the openings in the pretreatment grate to access the pretreatment disk on the inlet side.
- 9. Place the bypass weir extensions between the bypass weirs and lower weirs (E1 between U1 and L1, E2 between U2 and L2).
- 10. Press the weir extensions against the bypass weirs so that their tops line up (E1 against U1 and E2 against U2). Then slide each weir extension until it is flush with the riser wall and bolt each weir extension to its bypass weir using two stainless steel bolts, washers, and nuts on each and caulk between the extensions and the wall and around each bolt hole.
- 11. Bolt the inner chamber extension to the top of the inner chamber using four stainless stell screws. Caulk around each using ProSeal 34.
- 12. Mark a line for the centerline of the outlet on the outside of the concrete riser.

All

- 13. Ensure that the Hydroworks logo is stencilled to the concrete riser and monobase sections of the structure prior to delivery.

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