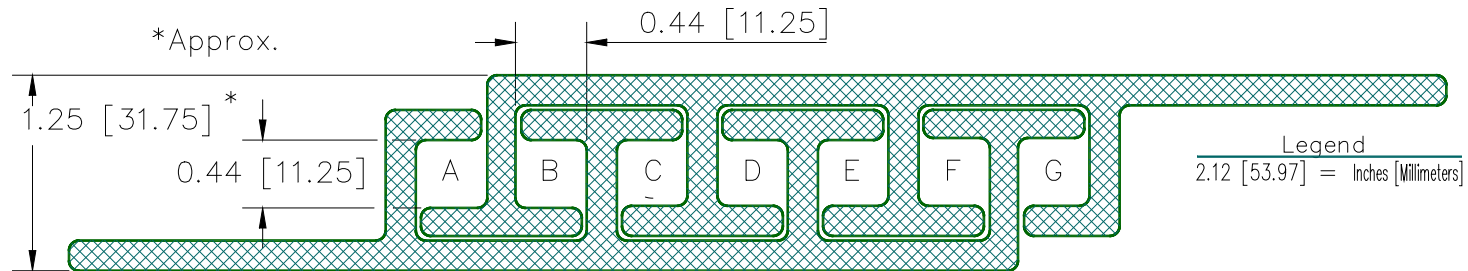


GSE CurtainWall Interlock[®], Connection and Joint (Dimensions)

(Patented and other patents pending)
Scale = Full



A thru G are potential monitoring or sealant chambers



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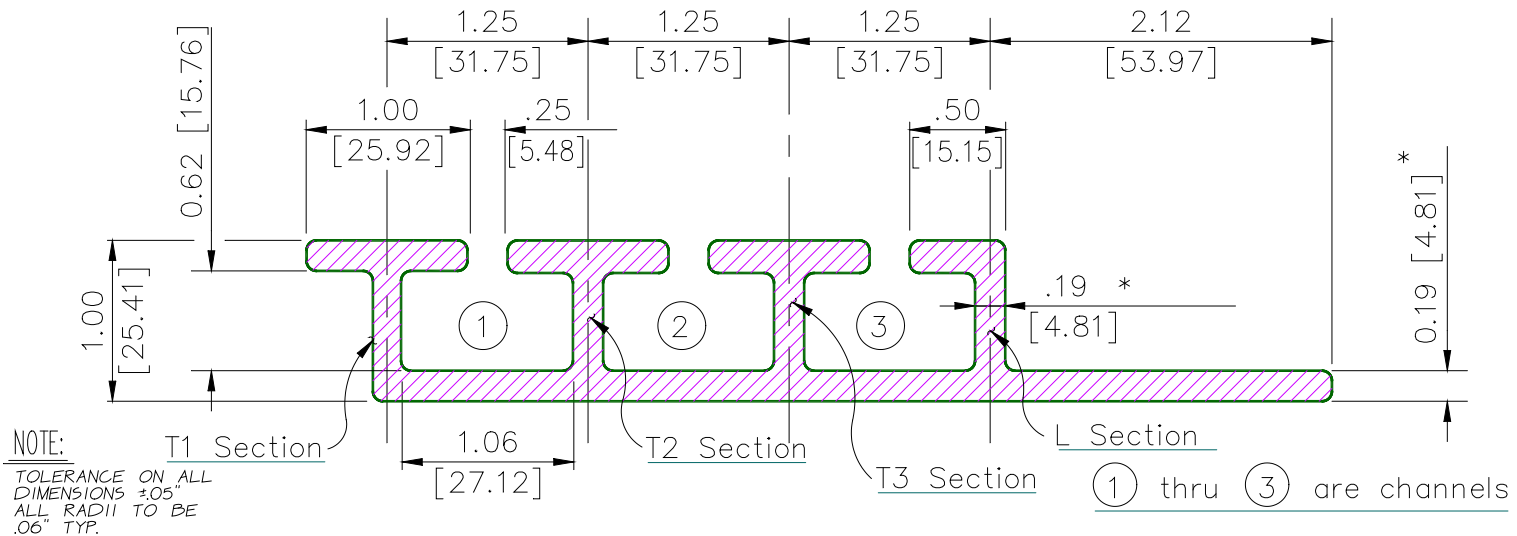
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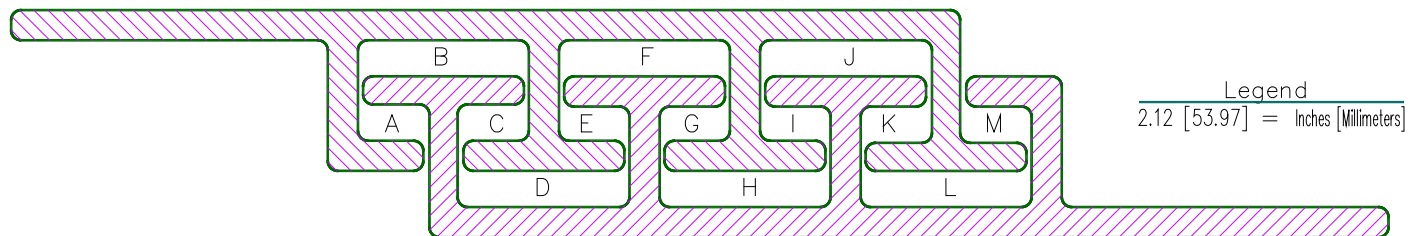
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GSE CurtainWall Interlock[®], Connection and Joint (Dimensions)

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Scale = Full



A thru M are potential monitoring or sealant chambers



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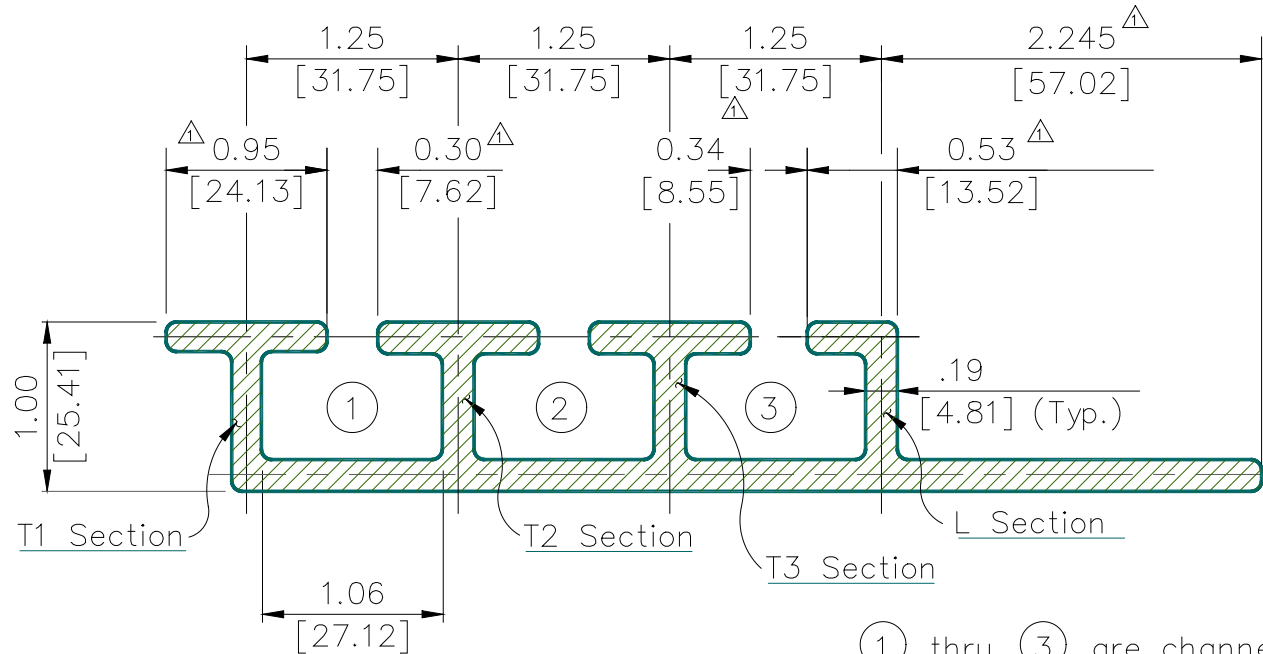
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NOTE:

TOLERANCE ON ALL
DIMENSIONS $\pm .05"$
ALL RADII TO BE
.06" TYP.

Legend

2.12[53.97] = inches[millimeters]



GSE Curtainwall Interlock® Connection (Dimensions)

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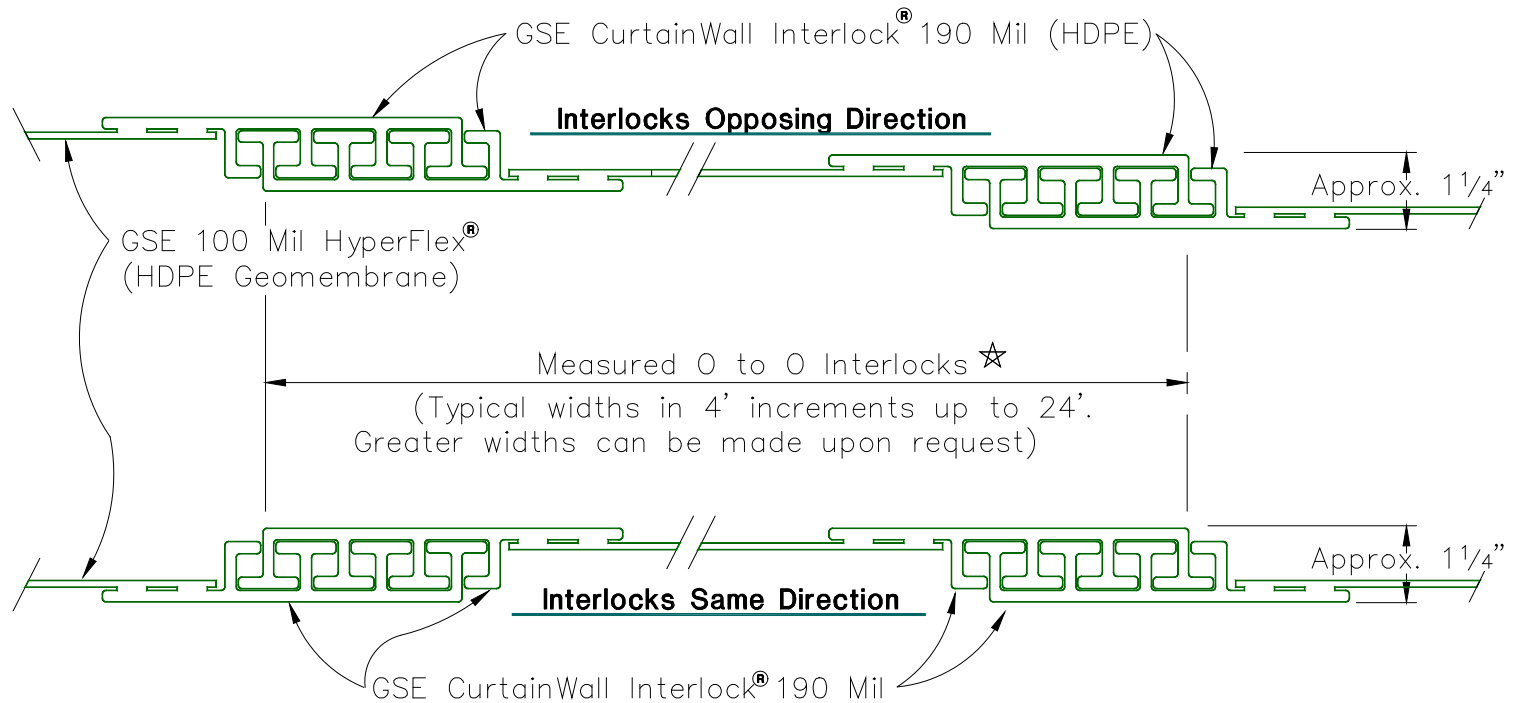
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Section Thru Typical CurtainWall® Panels

(Patented and other patents pending)
Not to scale

Drawing 2

★ Note: Measured dimensions are
fabricated with tolerances of 2"



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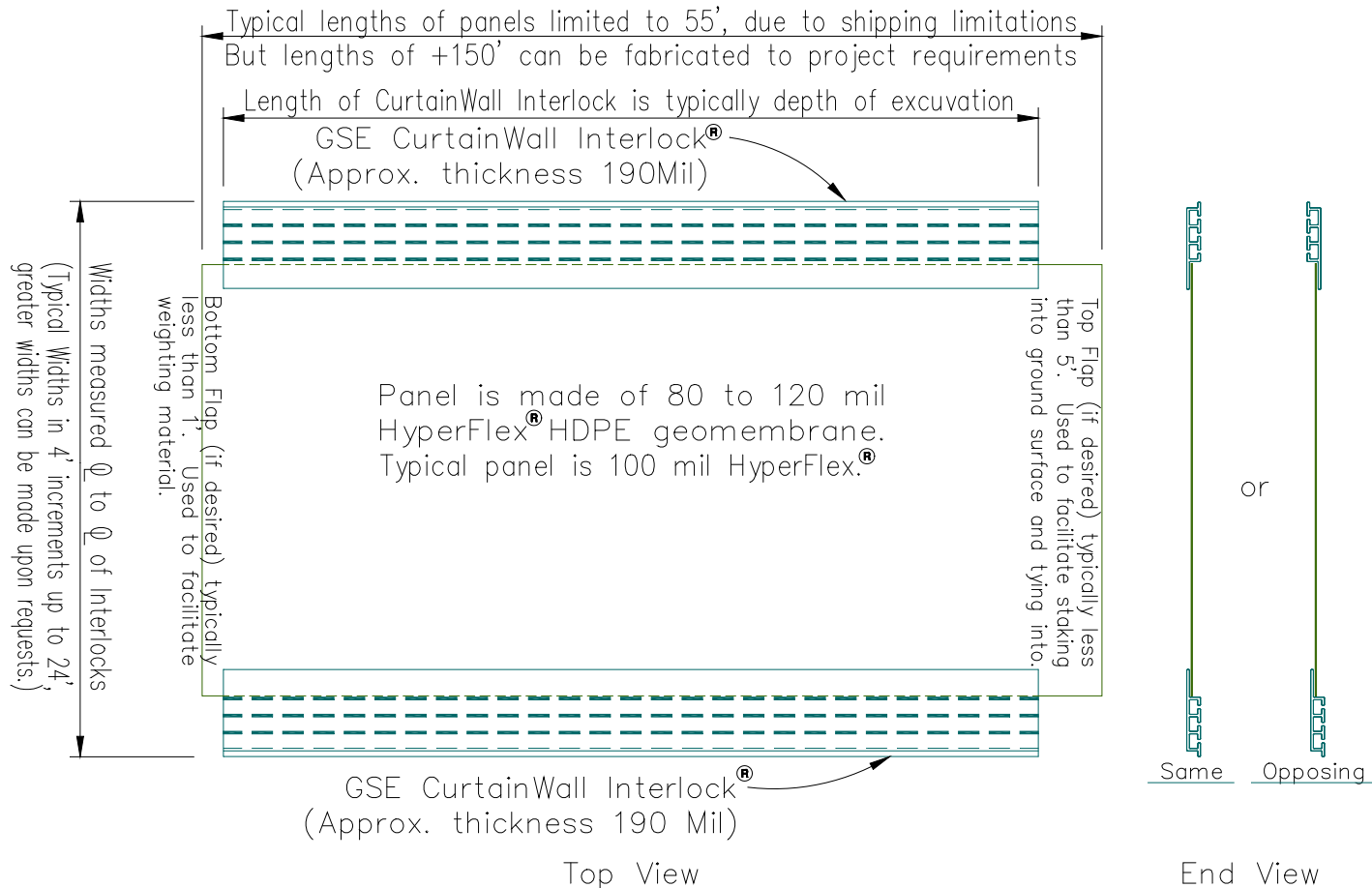
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DWG. NO.

D-CW003



GSE CurtainWall® Panel

Not to scale

☆ Note: Measured dimensions are fabricated with tolerances of 2"



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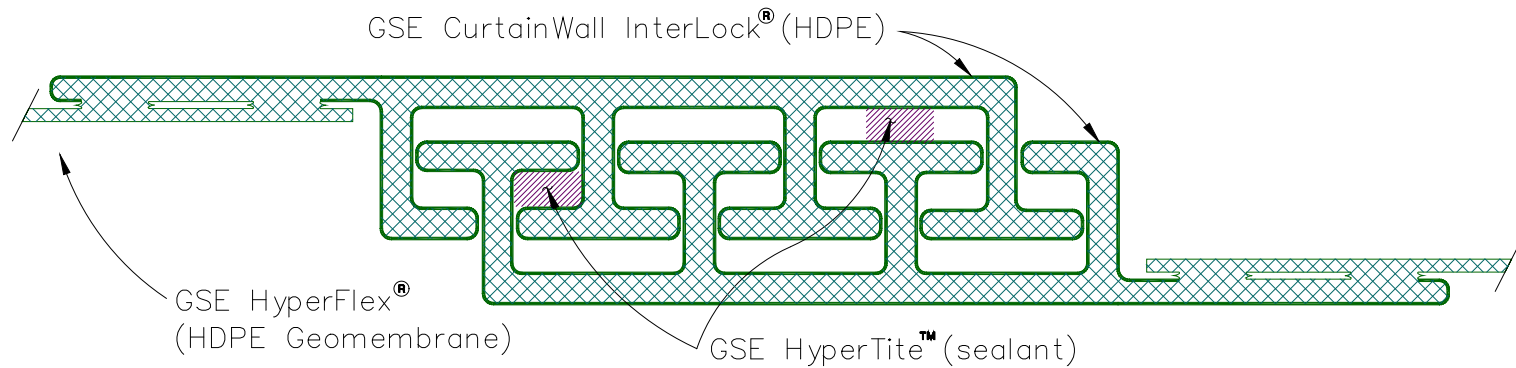
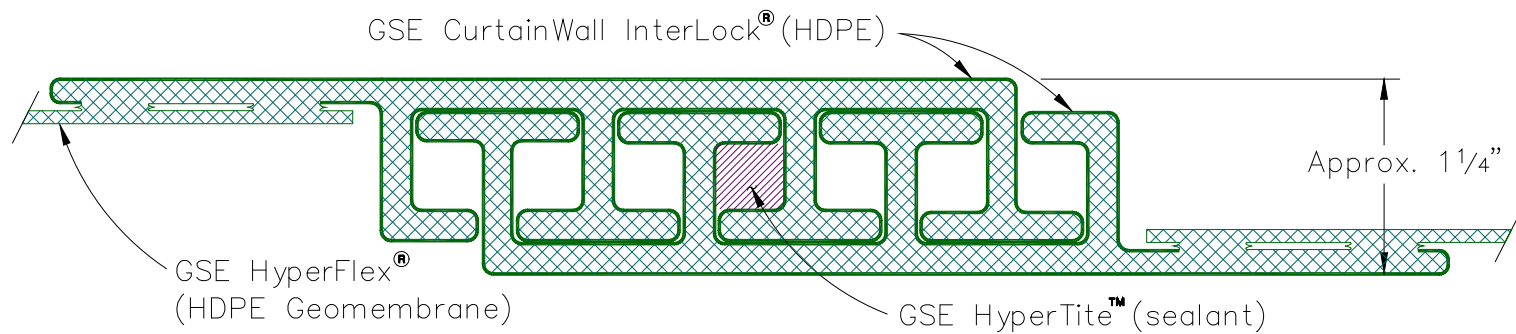
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D-CW004



GSE CurtainWall[®] System With GSE HyperTite[™]

Not to scale



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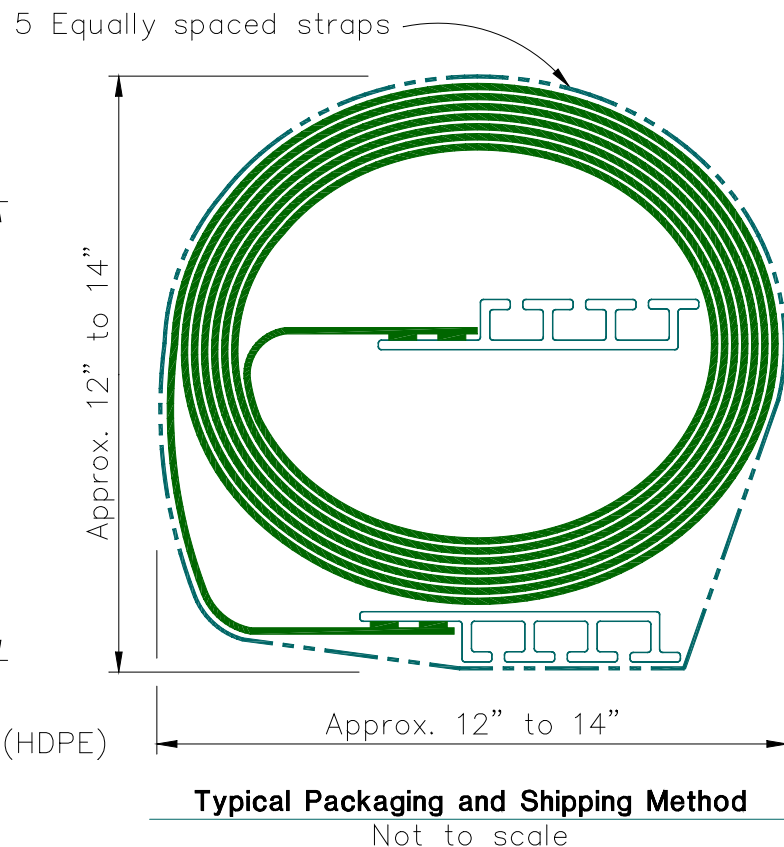
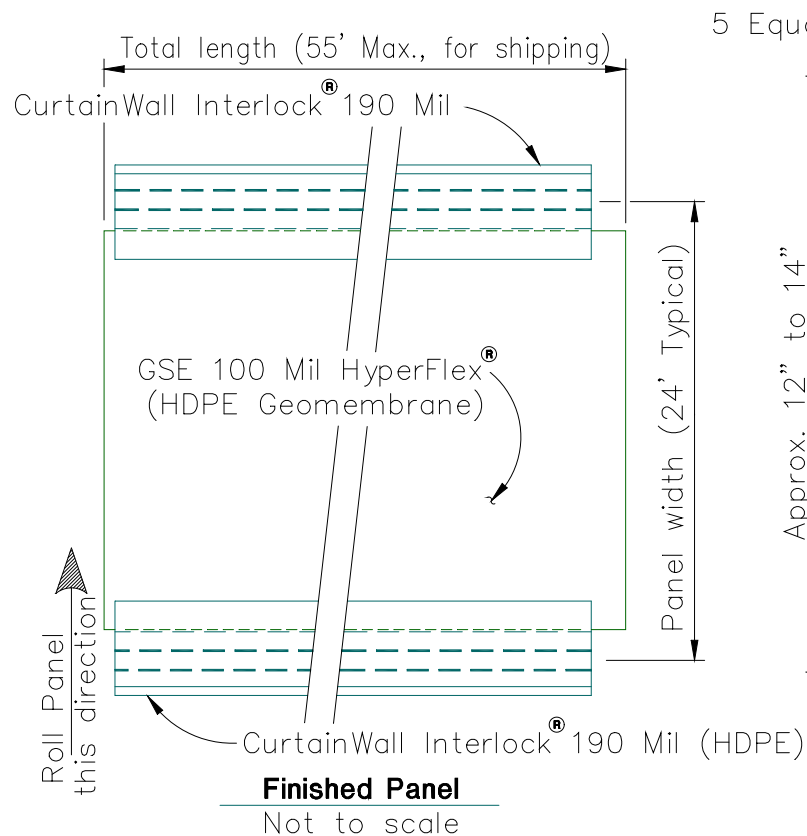
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GSE CurtainWall® System Shipping and Packaging



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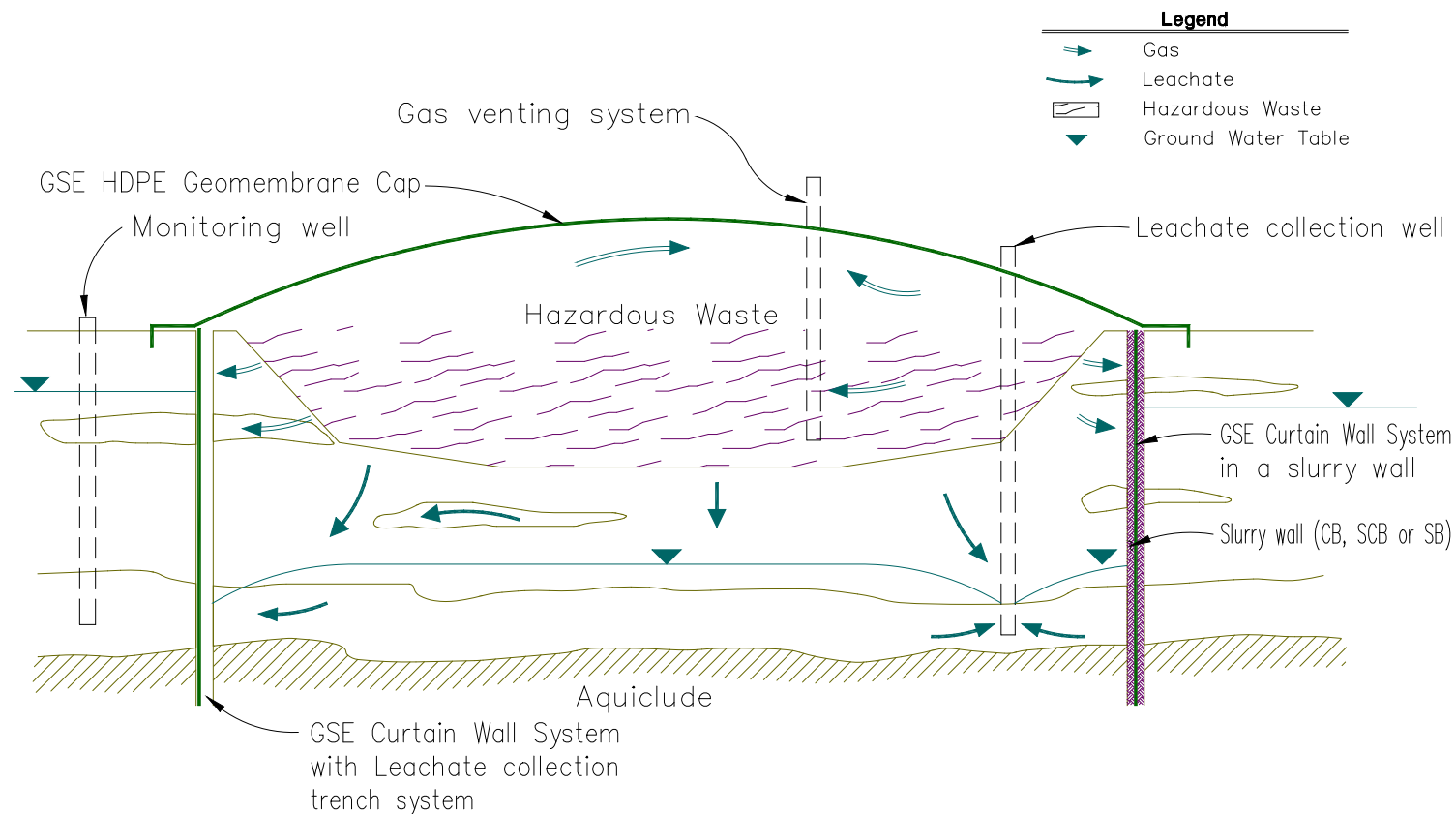
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D-CW006



GSE Curtain Wall System with Closure Cap

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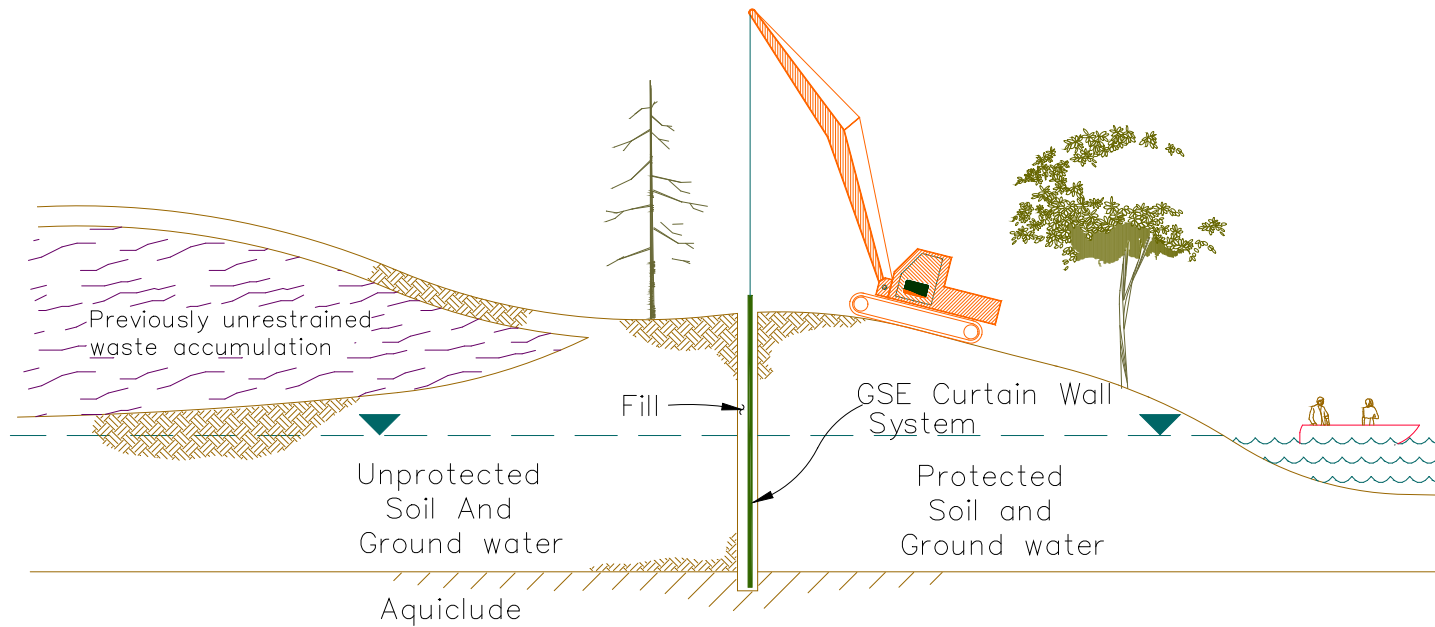
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D-CW007



GSE Curtain Wall Systems Stop Migration

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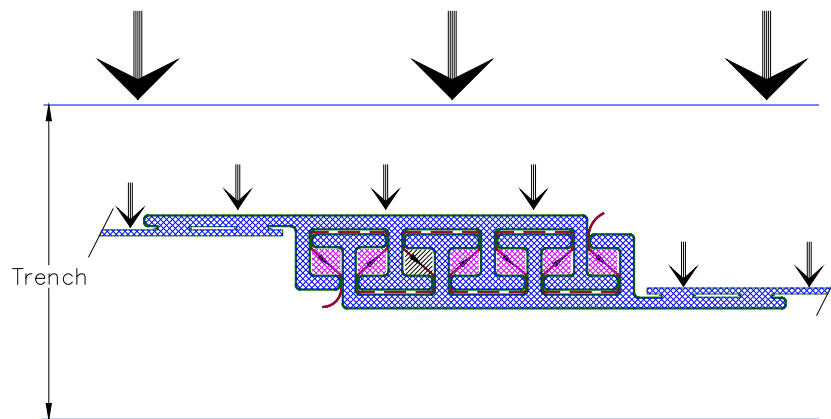
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DWG. NO.

D-CW008



Concentration of leachate reaching
barrier of fill and CurtainWall®

Much reduced leachate concentration
reaching CurtainWall™

Tortuous path of about 13" for
leachate to pass CurtainWall
Interlock™

Cement-bentonite ($K \sim 10^{-7}$ cm/sec)
filled channels

Additional very low permeability and
chemically resistant sealant in one
or more channels

GSE CurtainWall® System



GSE Lining Technology, Inc.

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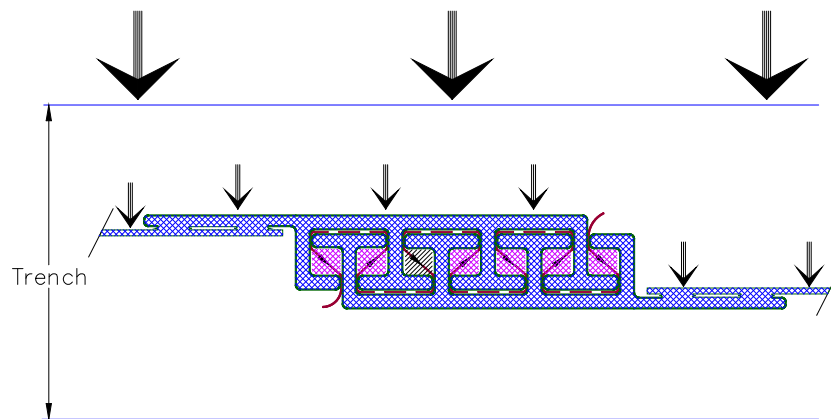
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Concentration of leachate reaching
barrier of fill and CurtainWall[®]



Much reduced leachate concentration
reaching CurtainWall[™]



Torturous path of about 13" for
leachate to pass CurtainWall
Interlock[™]



Cement-bentonite ($K \sim 10^{-7}$ cm/sec)
filled channels



Additional very low permeability and
chemically resistant sealant in one
or more channels

GSE CurtainWall[®] System



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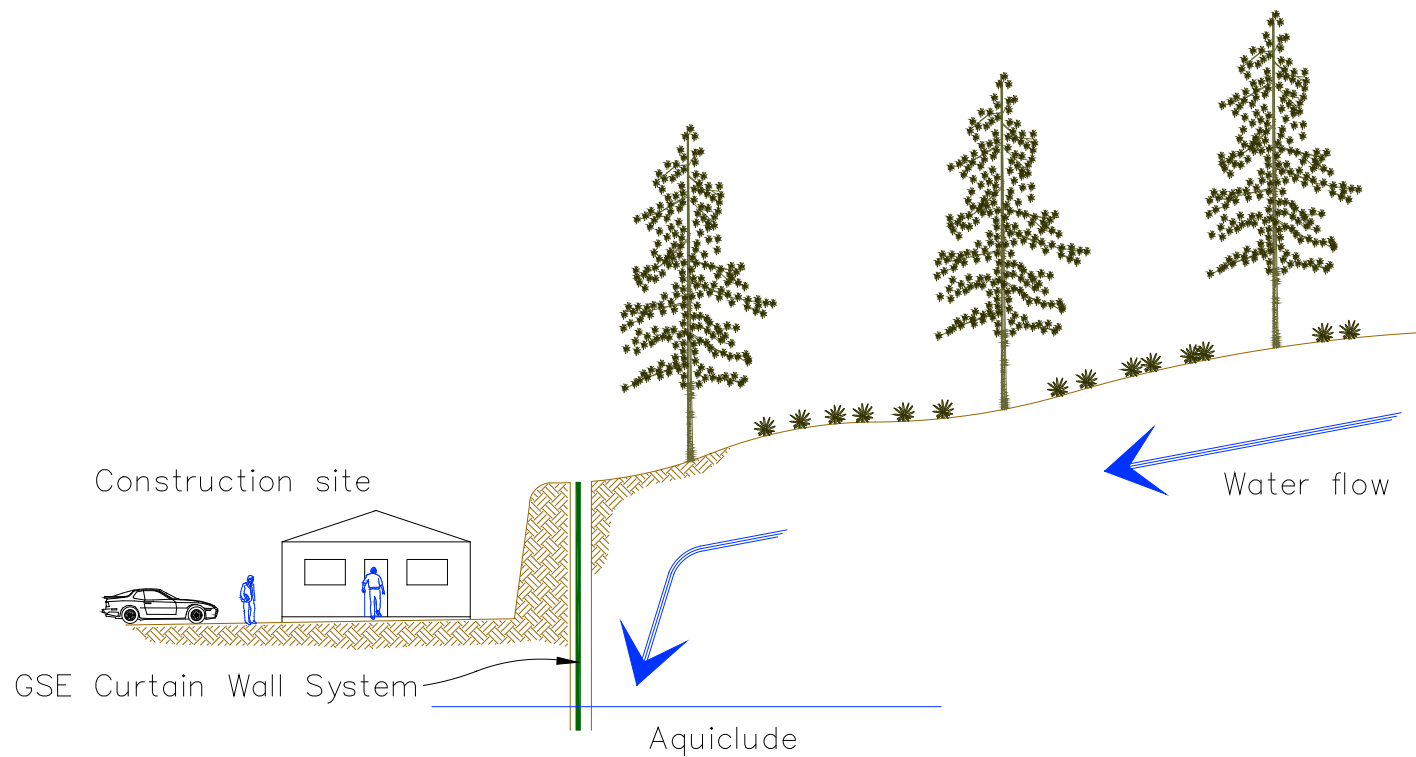
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Water Flow Control With GSE Curtain Wall System

Not to scale



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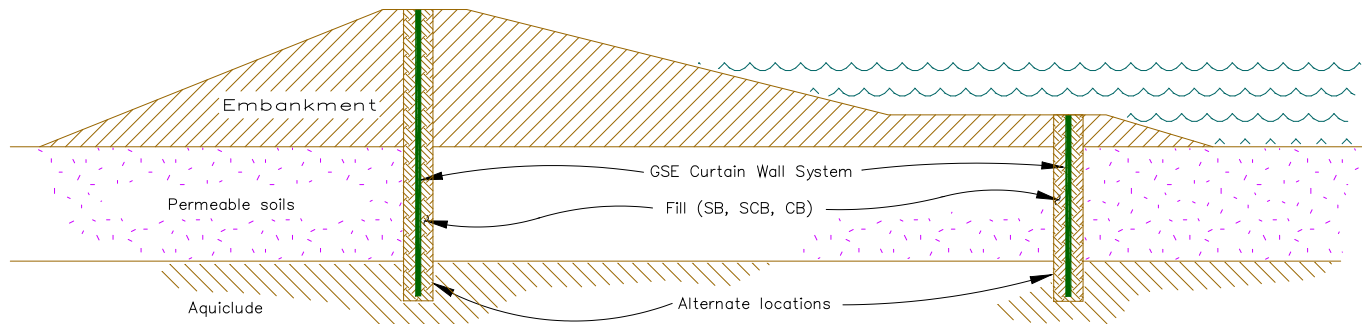
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Water Containment With GSE Curtain Wall System



Cutoff Wall under or through existing or new Dam, Dike, Berm, Levee or Cofferdam



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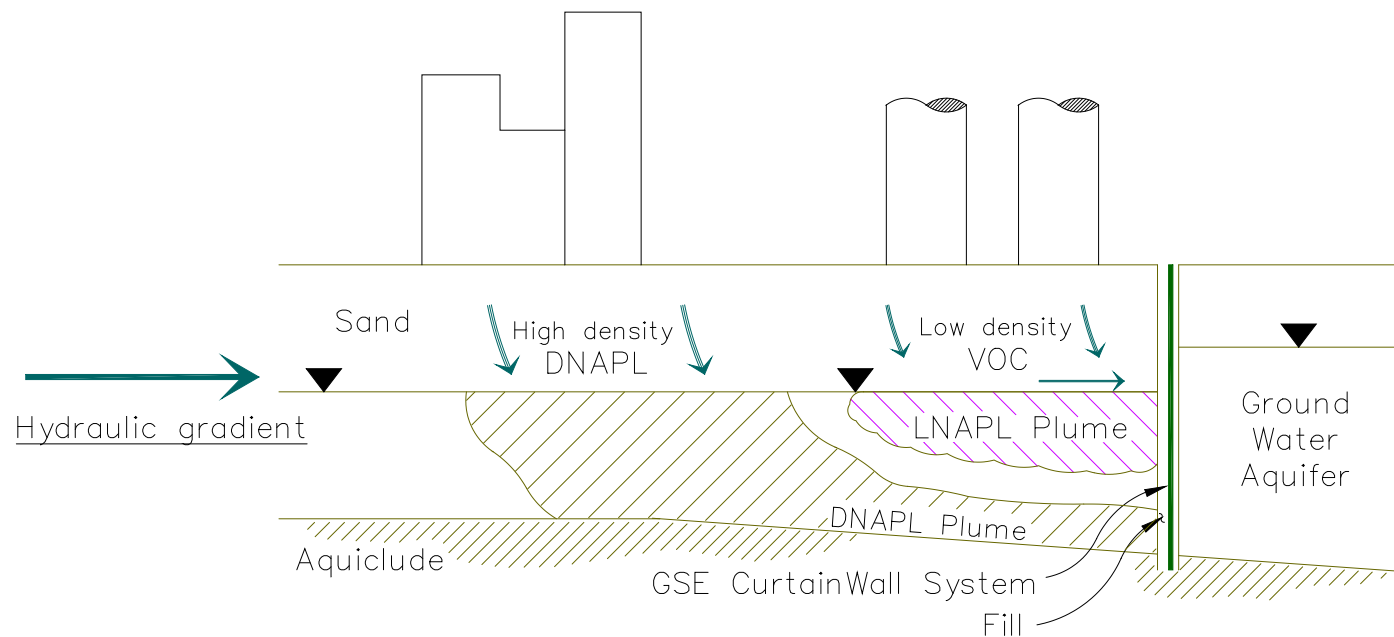
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Hazardous Waste Containment With GSE CurtainWall[®] System

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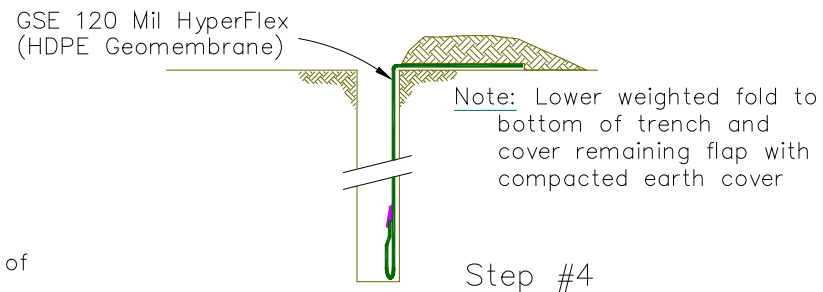
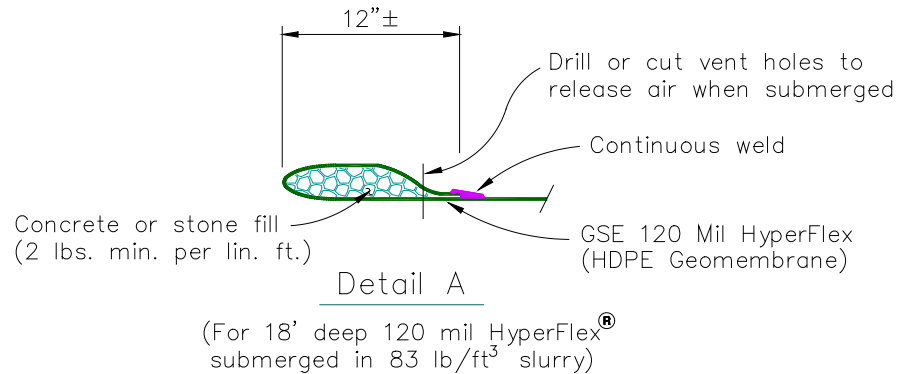
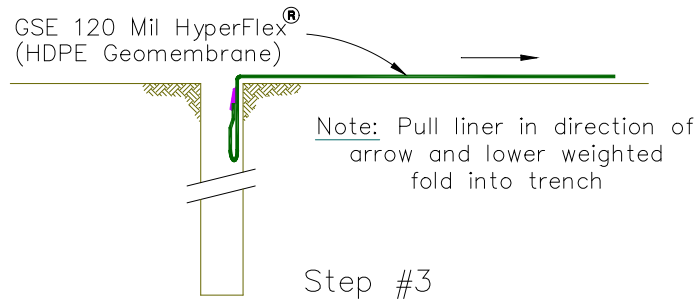
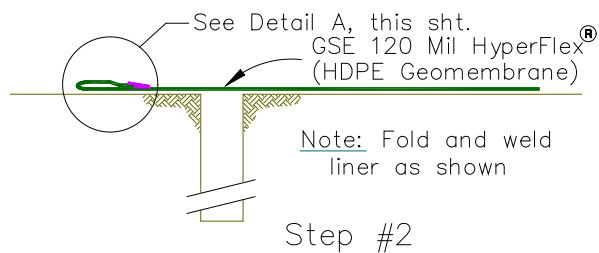
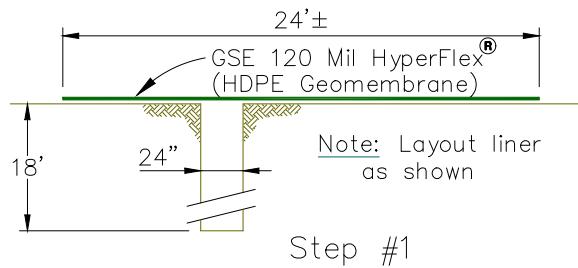
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GSE CurtainWall™ System For Short Shallow Applications

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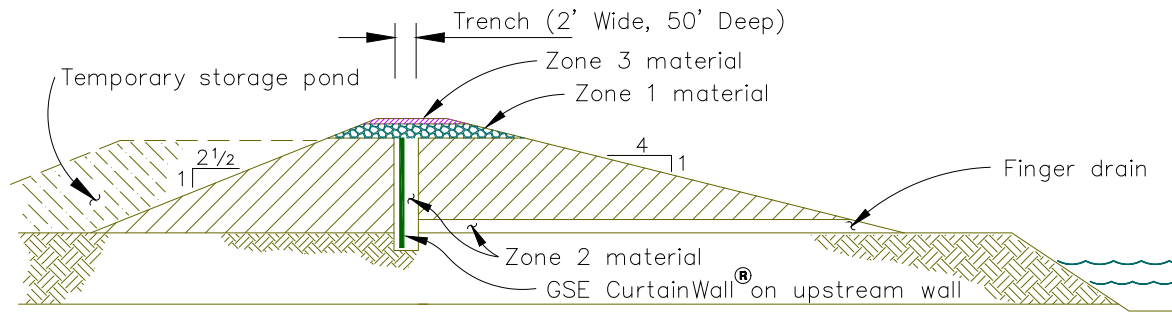
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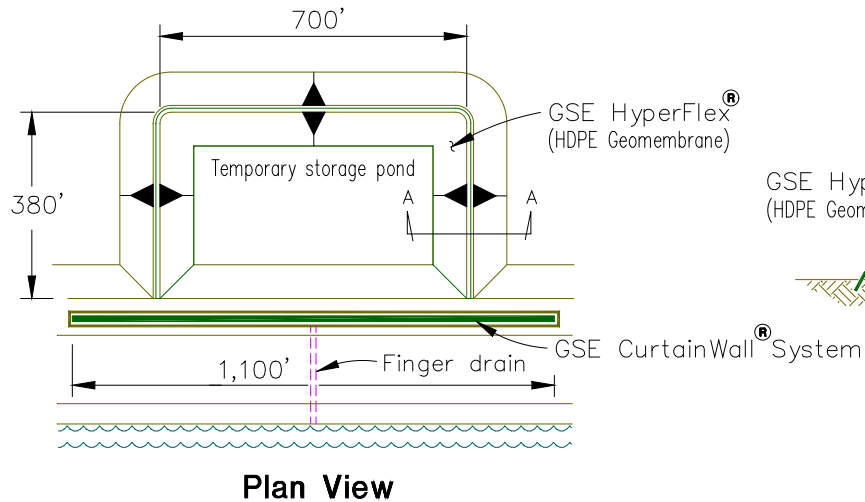
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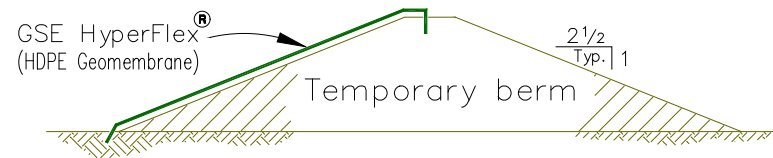
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Cross-Section Thru Dike



Plan View



Section A - A

GSE CurtainWall® System on Reach 11 Dike Modification



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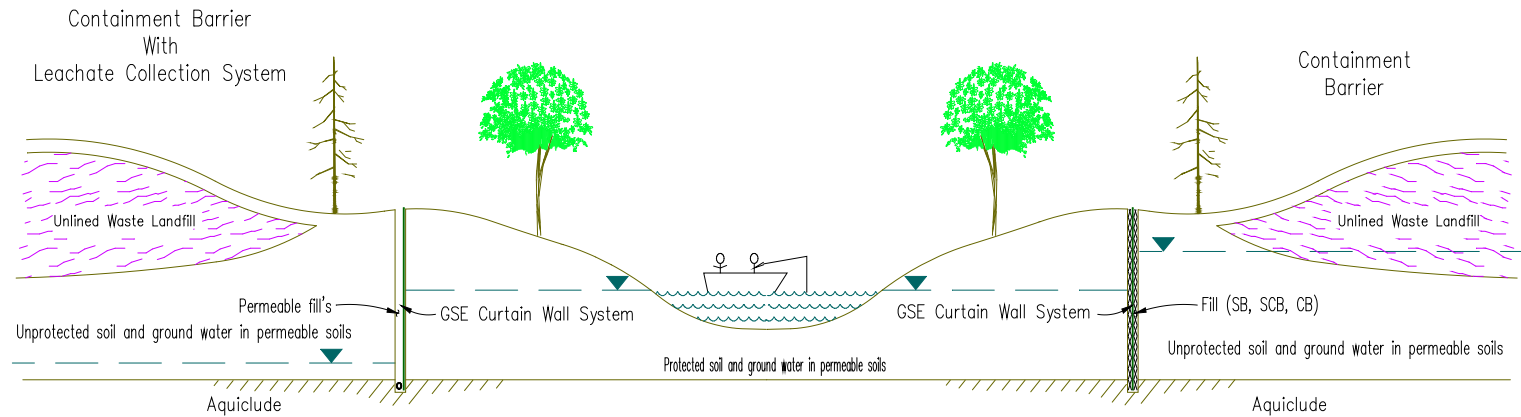
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Control Ground Water Lateral Migration From Waste Disposal Sites With GSE Curtain Wall System



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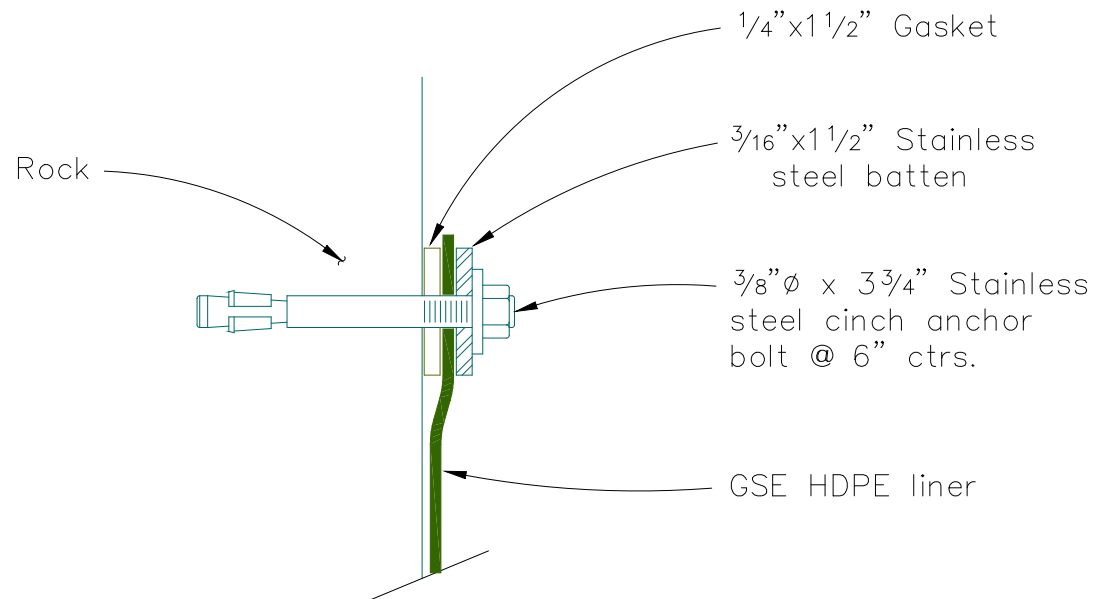
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Rock Anchor Detail

Not to scale

NOTE: Due to irregularities in a rock surface GSE can not guarantee sealing integrity of this connection.



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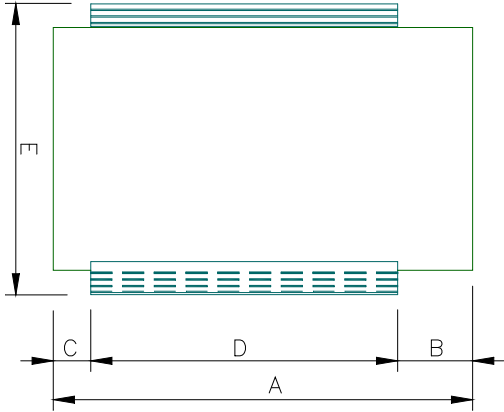
D-BT017

GSE CurtainWall® Panel Fabrication Details

Job Name & Location: _____

Ordered By: _____

Date Submitted _____



A = Total Panel Length
B = Length of Top Flap
(liner only)
C = Length of Bottom Flap
(liner only)
D = Length if Interlock
E = Width of Panel
(0. to 0. of Interlock)

	Size 1	Size 2	Size 3	Size 4	Size 5
Number of Panels					
Sheet Mil Thickness					
Anchors (Yes/No)					
Dim A					
Dim B					
Dim C					
Dim D					
Dim E					

Questions

- 1.) Are CurtainWall Interlocks The same or opposing directions? _____
- 2.) If the CurtainWall Panels include anchors, please draw the orientation of the anchor to the Interlocks.

Please detail the orientation of the Interlock and anchor lengths
(Top view of inserted panel in ground)



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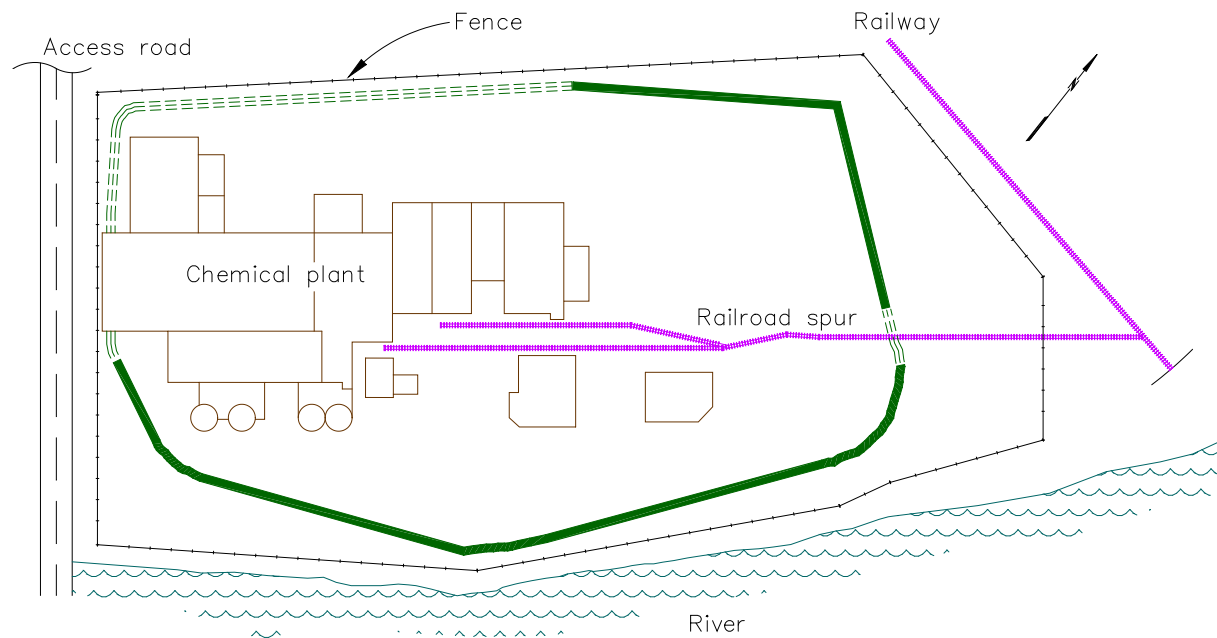
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GSE Curtain Wall System Project At A Chemical Plant

Key Plan (Not to scale)

Legend

GSE Curtain Wall System



Jet Grouting



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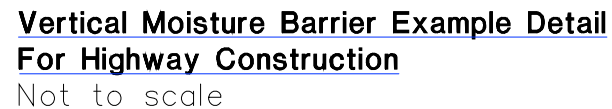
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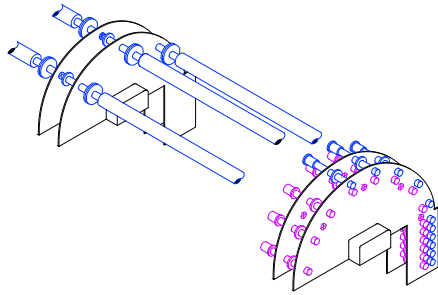
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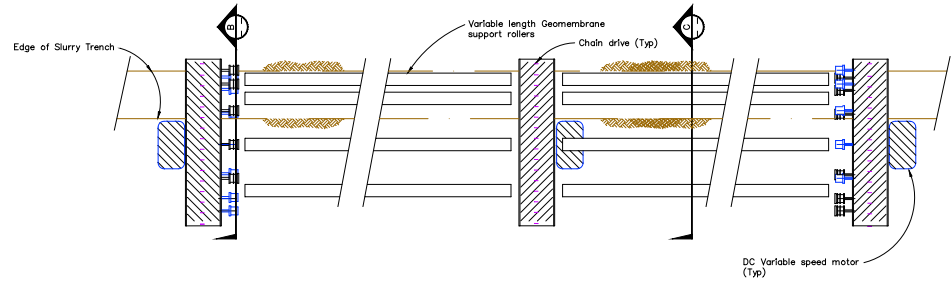
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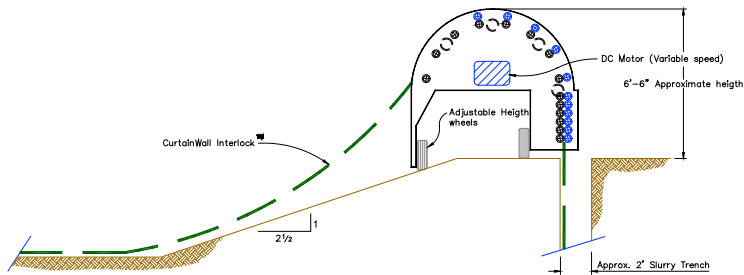




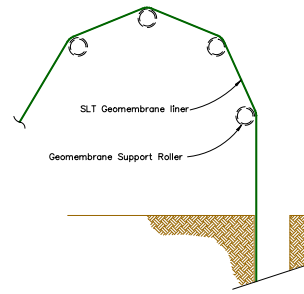
Partial Isometric View
Not to scale



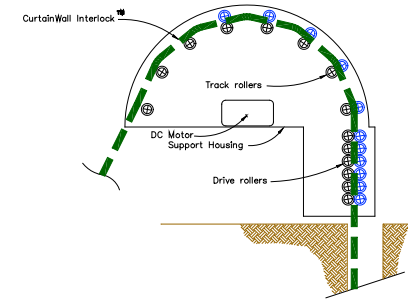
Plan View
Not to scale



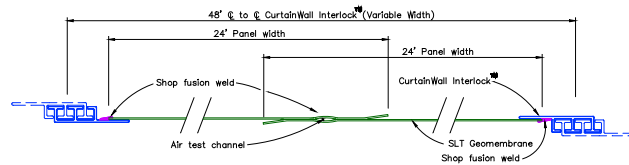
Typical Section
Not to scale



Section C
Not to scale



Section B
Not to scale



Typical Panel Cross-Section
Not to scale

Patent Pending



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19103 Gundie Road
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Don

DATE

12/15/98

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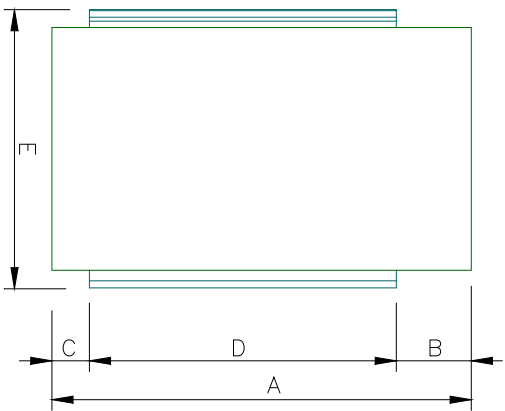
1

DWG. NO.

D-CW021

GSE GundWall™ Panel Fabrication Details

Job Name & Location: _____
Ordered By: _____
Date Submitted _____



A = Total Panel Length
B = Length of Top Flap
(Liner only)
C = Length of Bottom Flap
(Liner only)
D = Length if Interlock
E = Width of Panel
(0. to 0. of Interlock)

	Size 1	Size 2	Size 3	Size 4	Size 5
Number of Panels					
Sheet Mil Thickness					
Anchors (Yes/No)					
Dim A					
Dim B					
Dim C					
Dim D					
Dim E					

Questions

1.) Please draw orientation of interlocks (Please label male or female) and anchor lengths. Include any special details to be mentioned.
(Top view of inserted panel in ground)



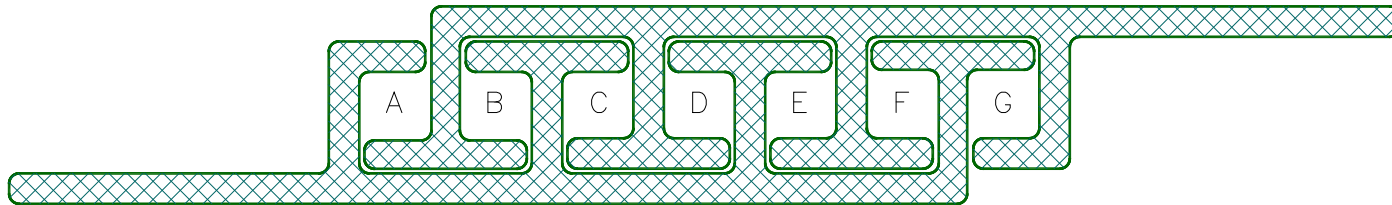
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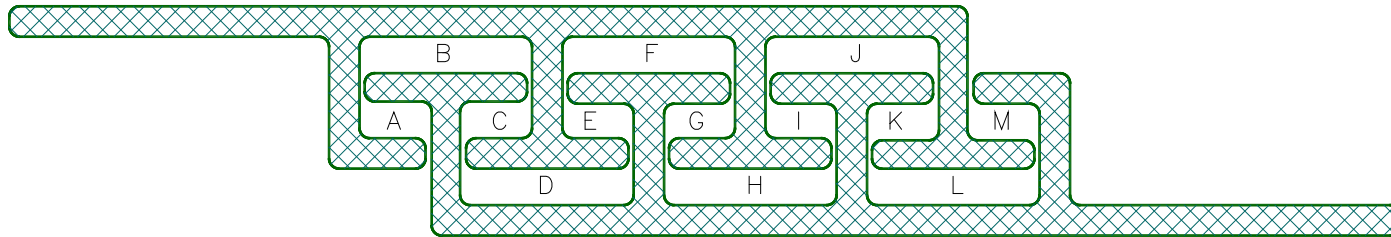
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REVISION 1 DWG. NO. D-CW022



A thru G are potential monitoring or sealant chambers



A thru M are potential monitoring or sealant chambers

GSE CurtainWall Interlock[®], Connection and Joint

(Patented and other patents pending)
Scale = Full



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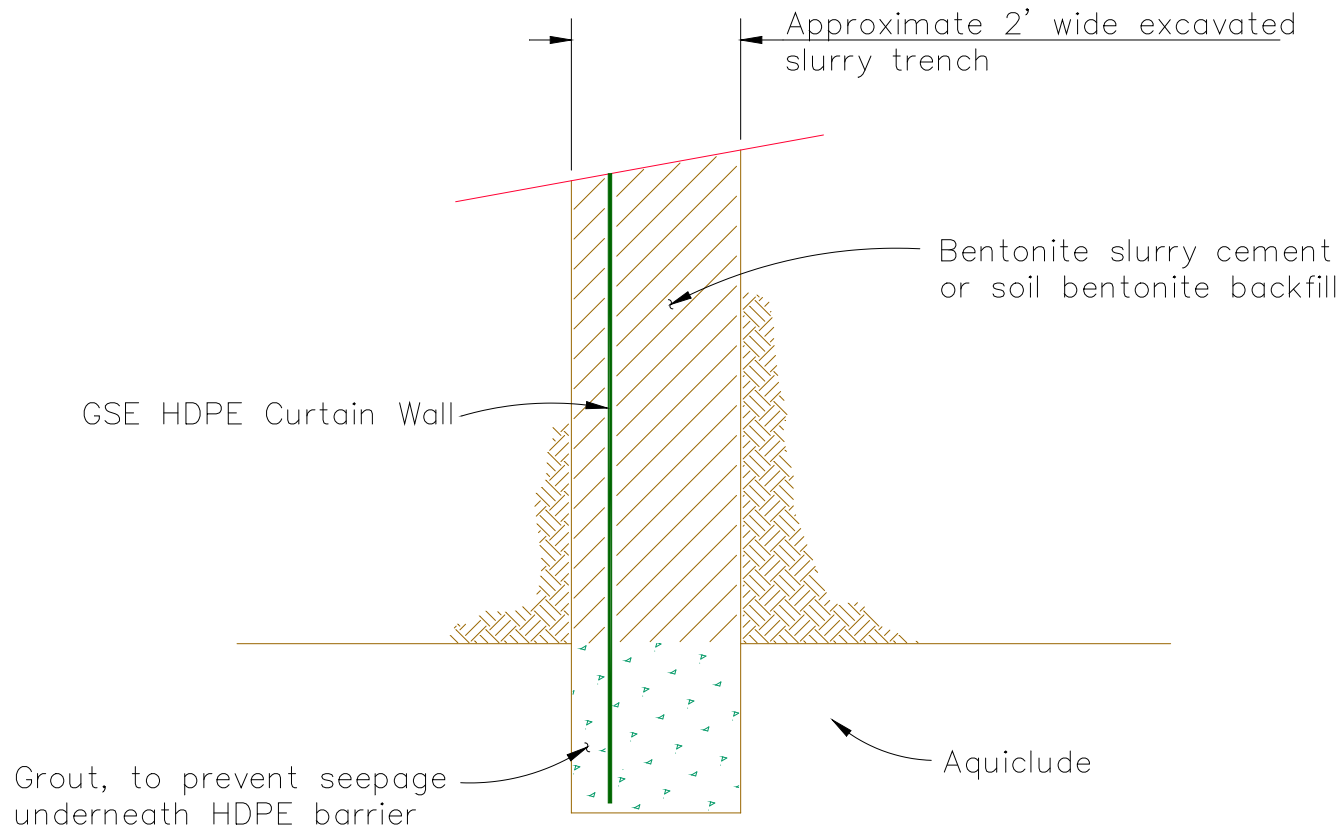
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DWG. NO.

D-CW023

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GSE HDPE Curtain Wall Keyed Into Aquiclude With Grout

Not to scale



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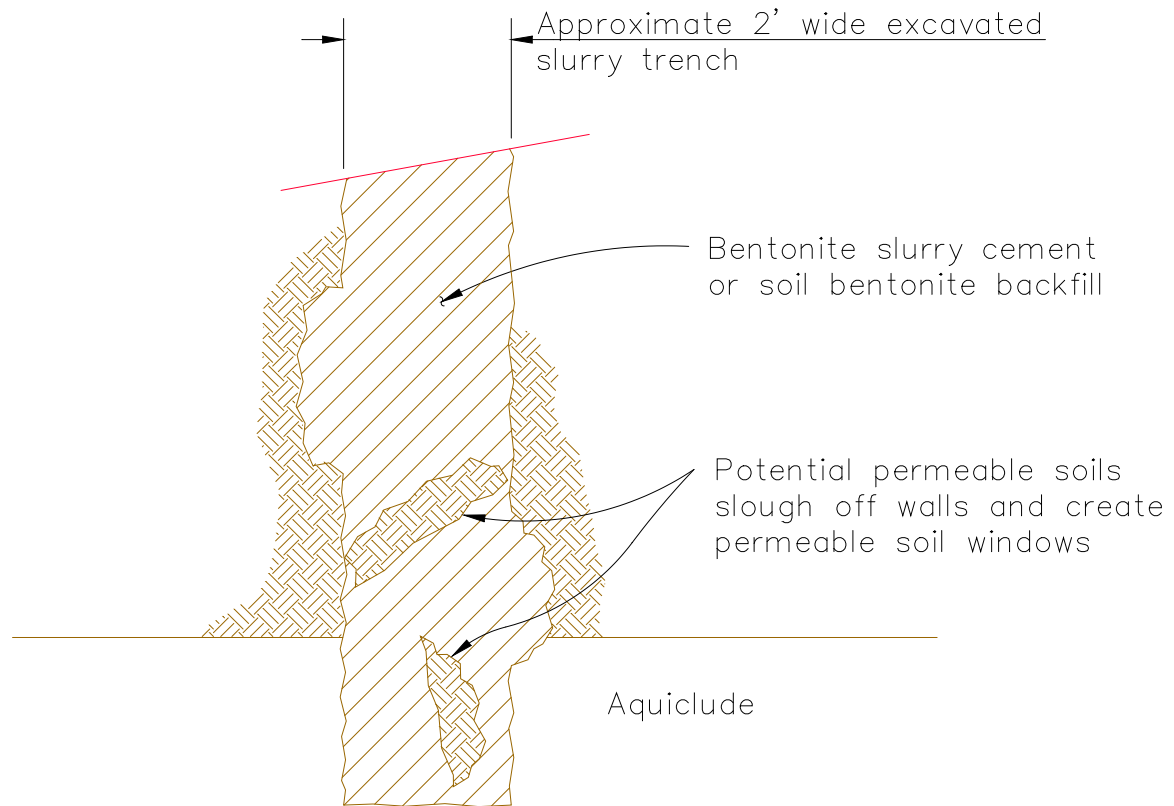
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DWG. NO.

D-CW024



Cross-Section Of Soil Bentonite, Cement Bentonite, Or Deep soil Mixed Walls With Permeable Soil Windows

Not to scale



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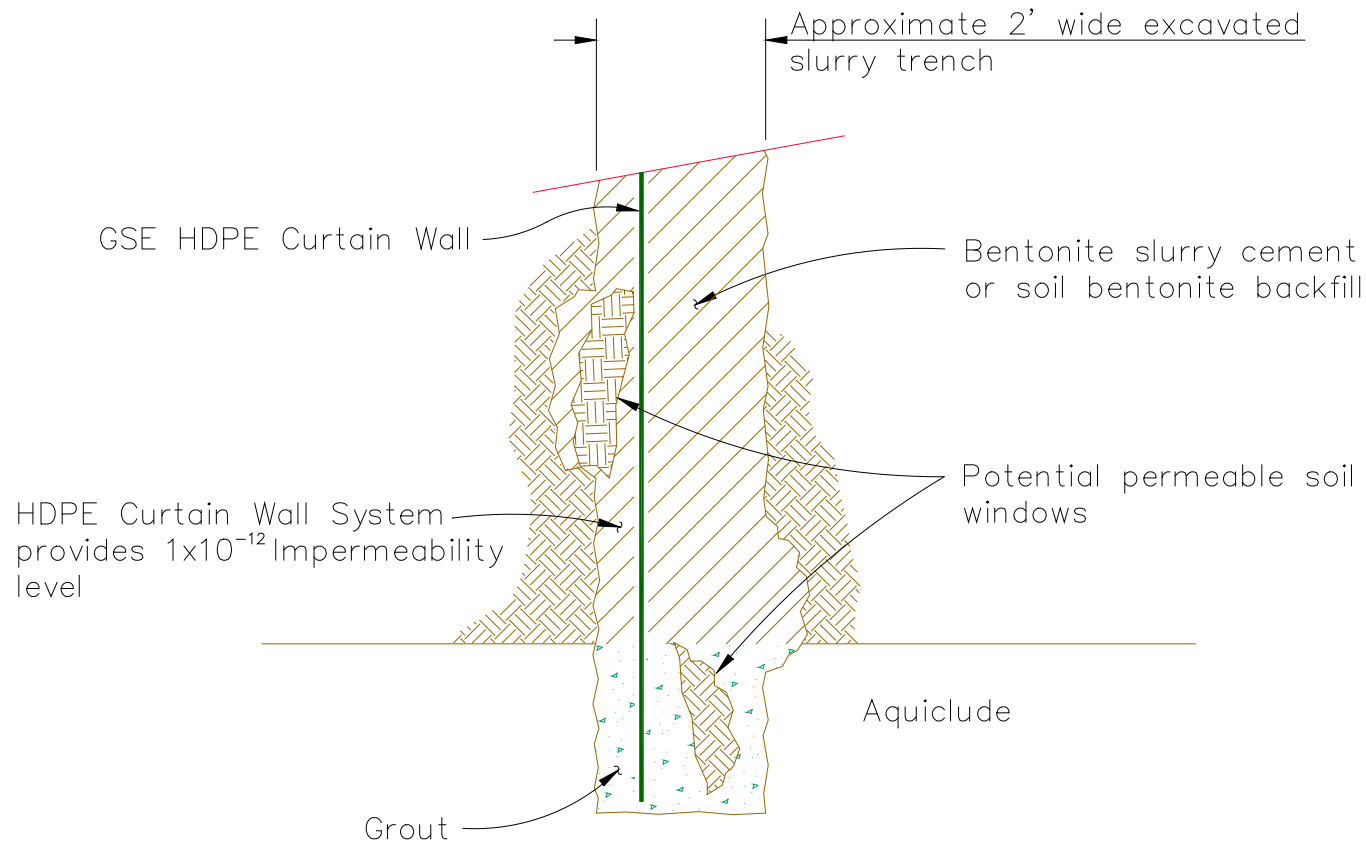
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DWG. NO.

D-CW025



Composite Barrier Wall With GSE HDPE Curtain Wall And Soil Bentonite Or Cement Bentonite Backfill

Not to scale



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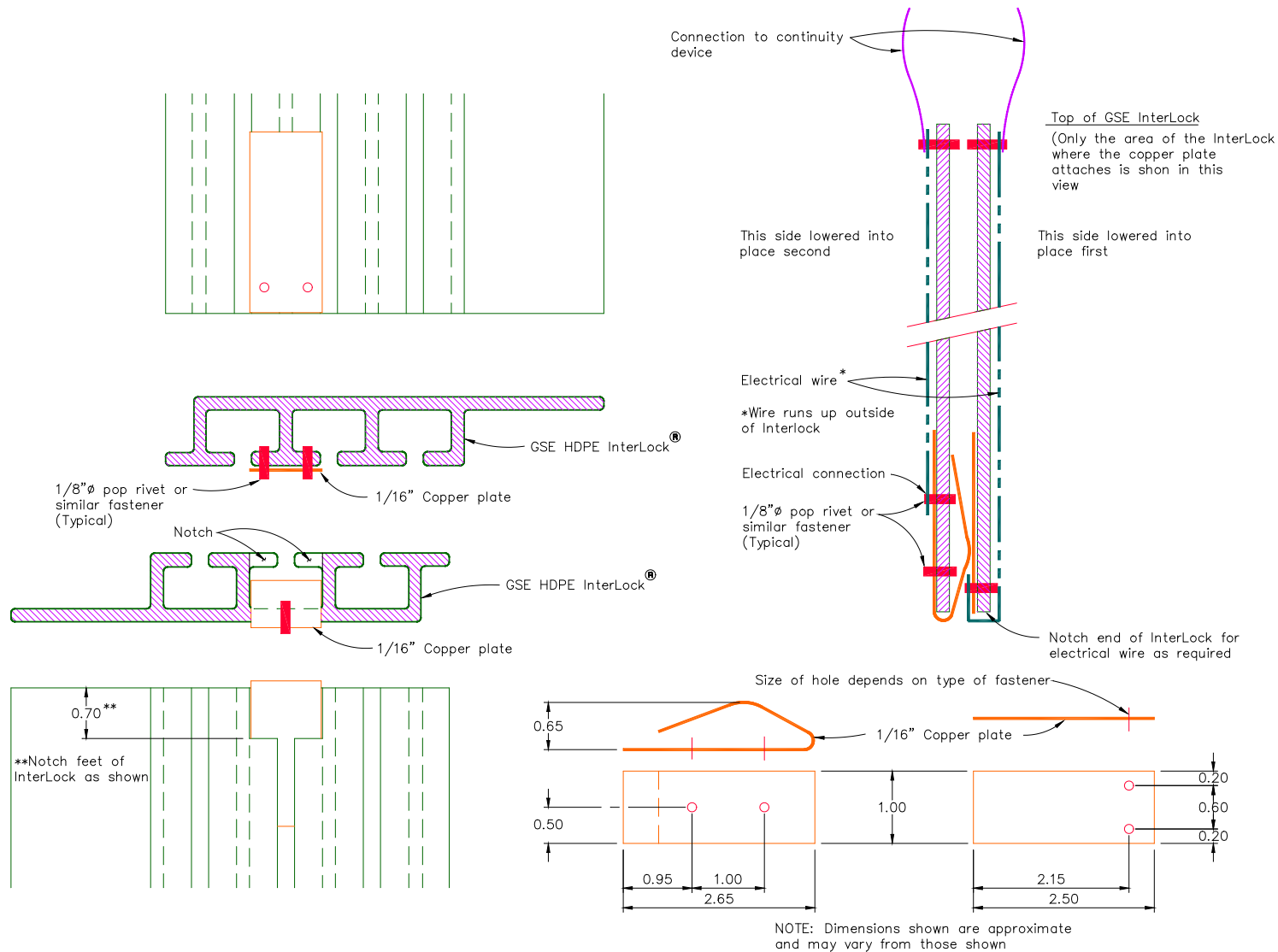
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DWG. NO.

D-CW026



Typical Electrical Verification Device (EVD) For CurtainWall®

Not to scale



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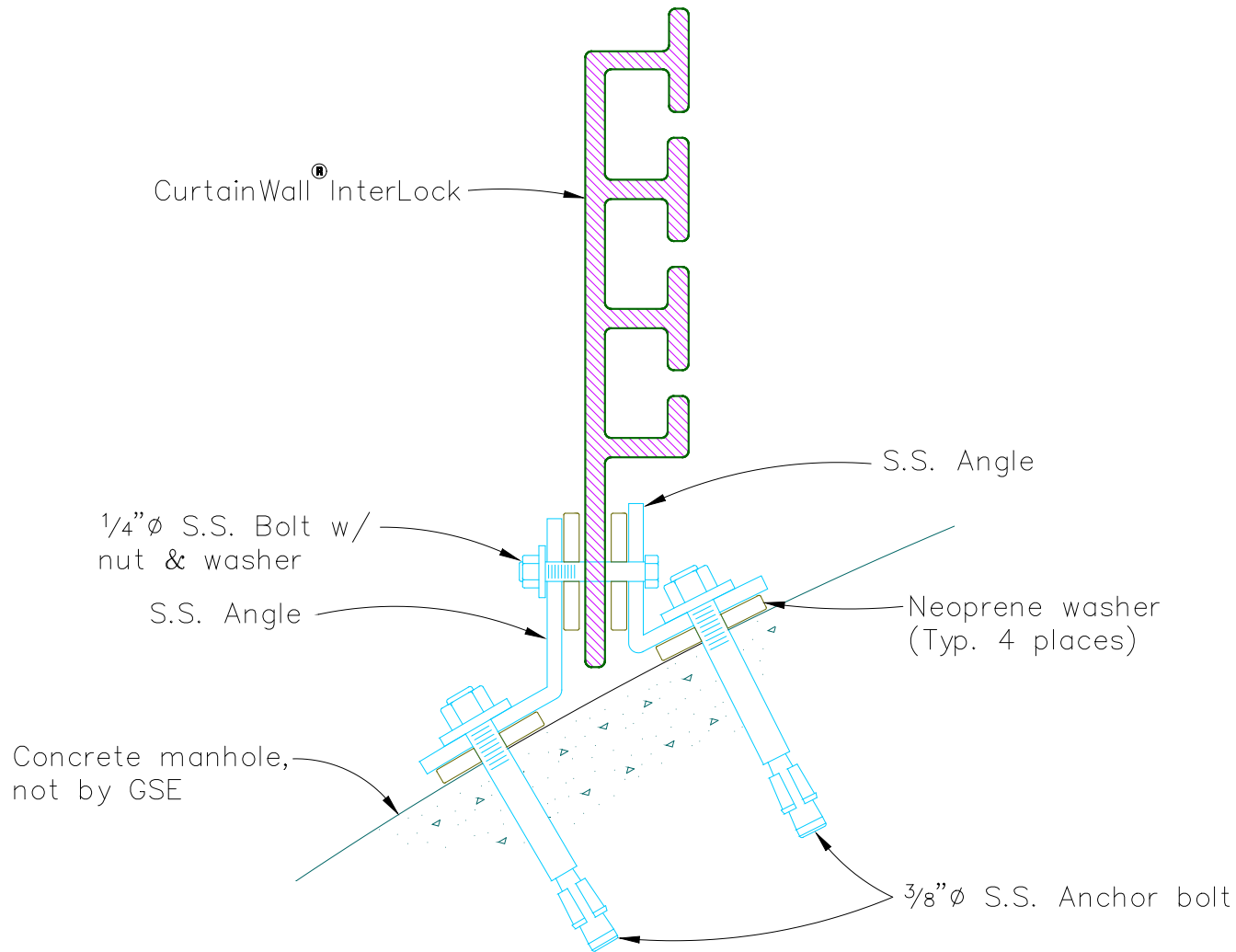
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DWG. NO.

D-CW027



GSE CurtainWall® Attachment To Concrete Structure

Not to scale



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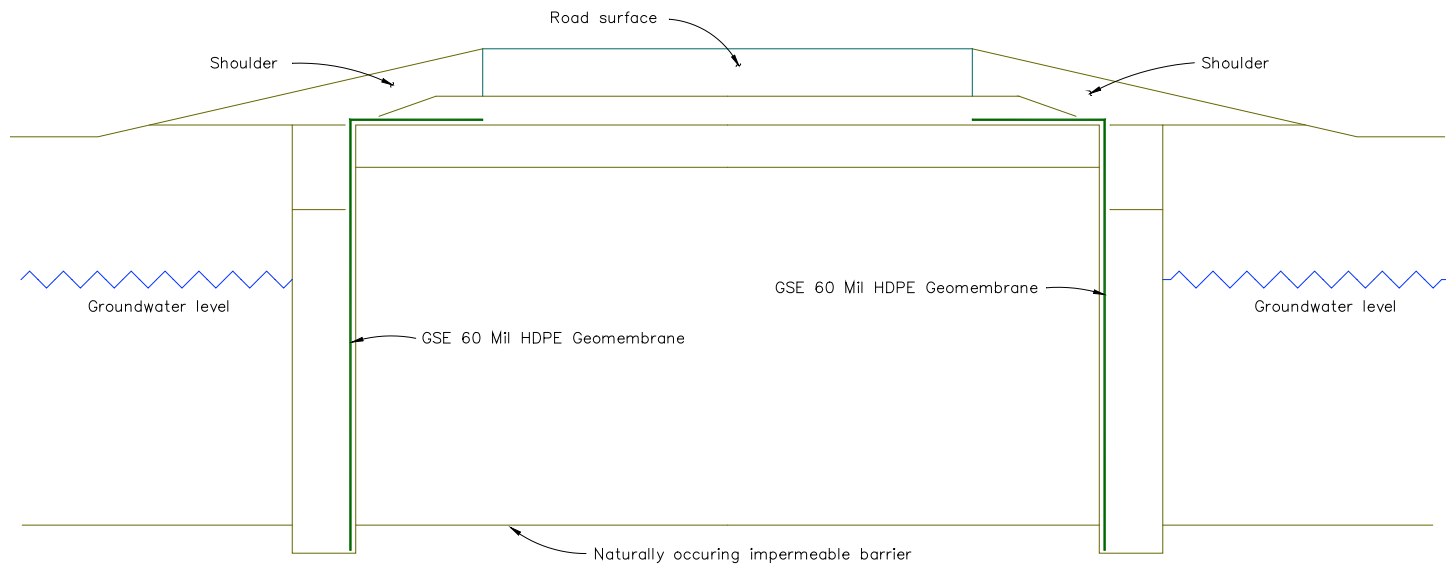
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DWG. NO.

D-CW028



**Cutaway View Of Highway Construction Detail W/ Vertical Barrier
To Prevent Flow Of Groundwater Under Roadway**



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