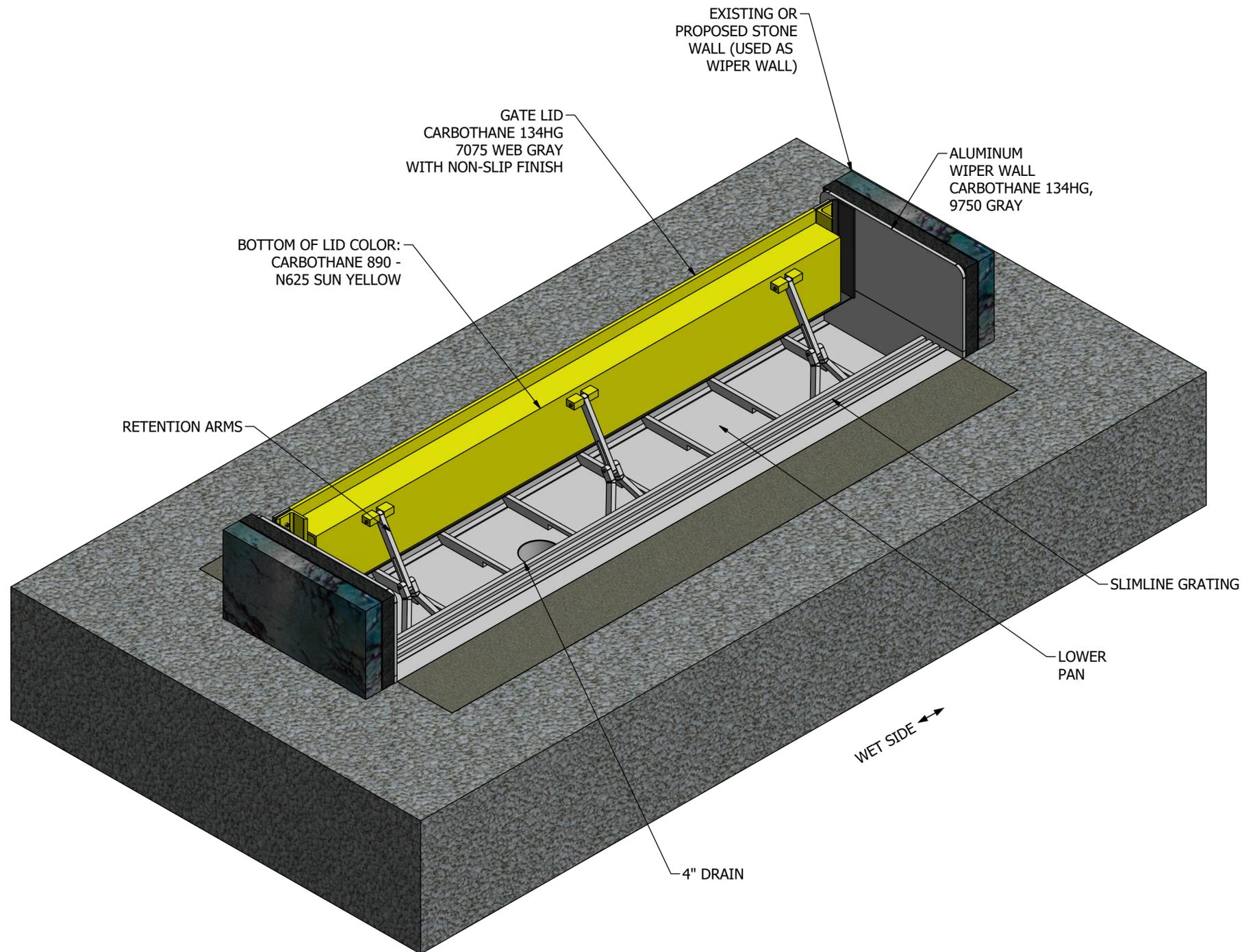


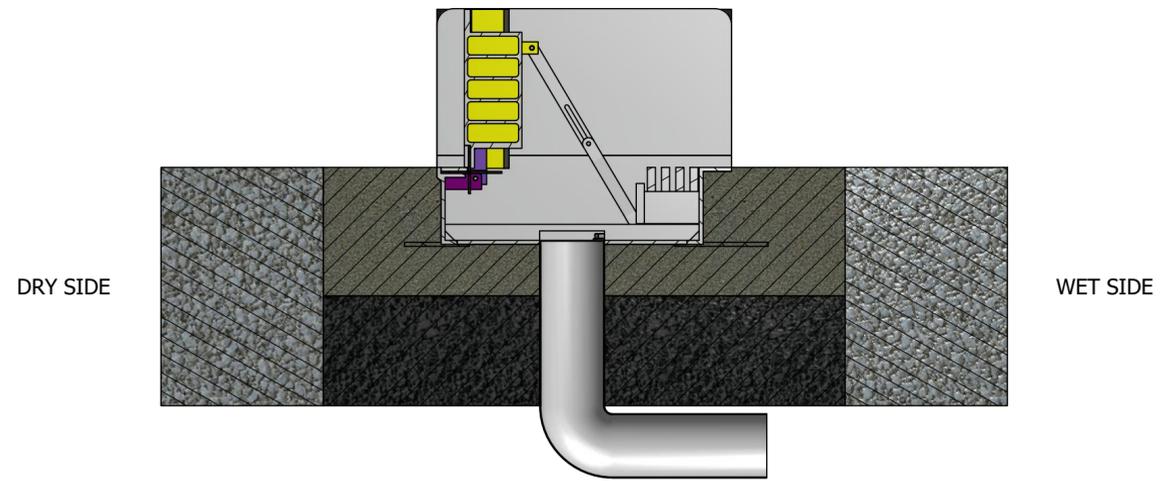
## STRUCTURAL SPECIFICATIONS:

- FLOODGATE MATERIAL TO BE ALUMINUM AS FOLLOWS:  
 LID - ALUMINUM CONNECTED EXTRUSION - GRADE 6061 MIN.  $F_y=35$  KSI  
 PAN STIFFENERS -  $\frac{1}{2}$ " ALUM FLAT BAR - GRADE 6061 MIN.  $F_y=35$  KSI  
 PAN - ALUMINUM CONNECTED EXTRUSION - GRADE 6061 MIN.  $F_y=35$  KSI  
 ALUM FLAT BARS, STRUCTURAL ANGLES, HINGES GRADE 6061-T6 MIN.  $F_y=35$  KSI  
 RETENTION ARMS -  $\frac{3}{4}$ " x  $\frac{1}{2}$ " ALUM FLAT BAR - GRADE 6061 MIN.  $F_y=35$  KSI
- HINGE BOLTS, PINS, AND MACHINE SCREWS TO BE STAINLESS STEEL - GRADE 304, MIN.  $F_y=90$  KSI.
- RETENTION ARM ANCHOR BOLTS SHALL BE STAINLESS STEEL STANDARD THREAD BOLTS SET IN VINYLESTER BASED ADHESIVE CONTAINED IN A GLASS CAPSULE, INSTALLED PER SIMPSON STRONG TIE SPECIFICATIONS.
- ALUMINUM TO BE WELDED WITH ALUMINUM WIRE - PER 4043 AWS A5.10 3/64.
- GROUT TO BE COMMERCIAL GRADE NON-SHRINKING GROUT.
- ALL CONCRETE FOUNDATION POURS AND THEIR TIE-DOWNS TO EXISTING FOUNDATIONS SHOWN IN THESE DRAWINGS ARE FOR ILLUSTRATIVE PURPOSES ONLY. DESIGN OF THE CONCRETE FOUNDATION SLABS IS BY OTHERS. DESIGN AND SUPERVISION OF INSTALLATION OF RETENTION ARMS, ANCHOR BOLTS, AND GATE ANCHORS ARE BY FLOODBREAK. ALL CONCRETE TO BE 4000 PSI MINIMUM 28 DAY STRENGTH. REINFORCED IN EACH DIRECTION WITH ASTM - A615 MIN.  $F_y=60$  KSI. SPECIAL ATTENTION SHALL BE PAID TO PROPER SUPPORT OF RETENTION ARM ANCHOR BOLTS INTO THE SUPPORTING CONCRETE.
- ALL GASKET MATERIAL TO BE  $\frac{1}{8}$ " EPDM RUBBER.
- ALL DIMENSIONS IN FEET AND INCHES UNLESS OTHERWISE STATED.
- SLOPE: NONE
- WEIGHT: 196.5 LBS



## GENERAL ISOMETRIC LAYOUT

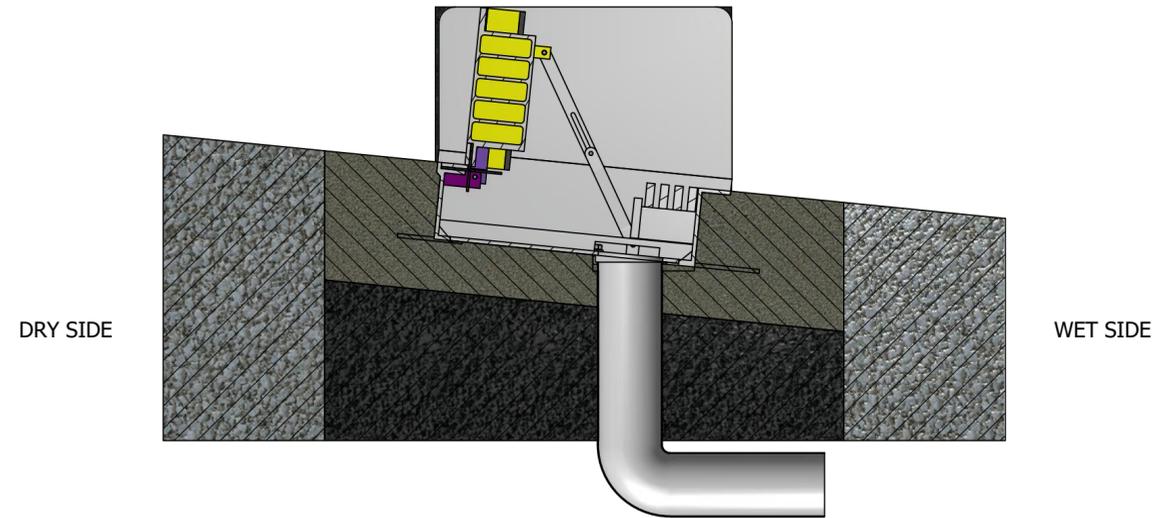
 <b>FloodBreak</b> REVOLUTIONARY FLOOD CONTROL		
DEMO - SLIMLINE GATE STANDARD LOCATION SLIMLINE GATE 6'-0" L x 25 cm H		
SLIMLINE# 0003.3		
REV 0		
SCALE	VARIES	
DRAWN	A. JOLLY	8/1/2018
CHECKED	N. EASTMAN	8/1/2018
APPROVED	M. POSADA	8/1/2018
SHEET 1 OF 9		



DRY SIDE

WET SIDE

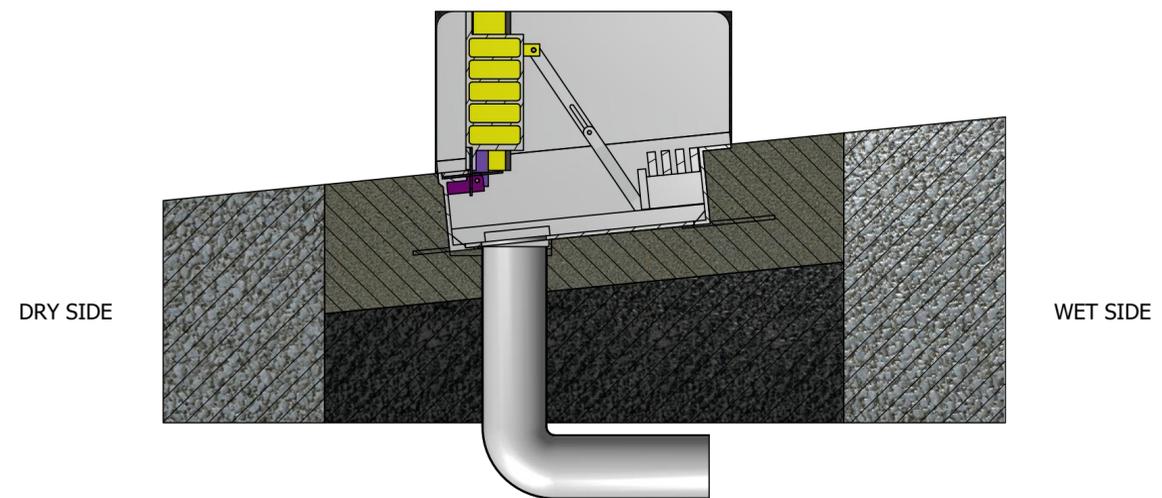
LEVEL GRADE



DRY SIDE

WET SIDE

UPSLOPE (POSITIVE)



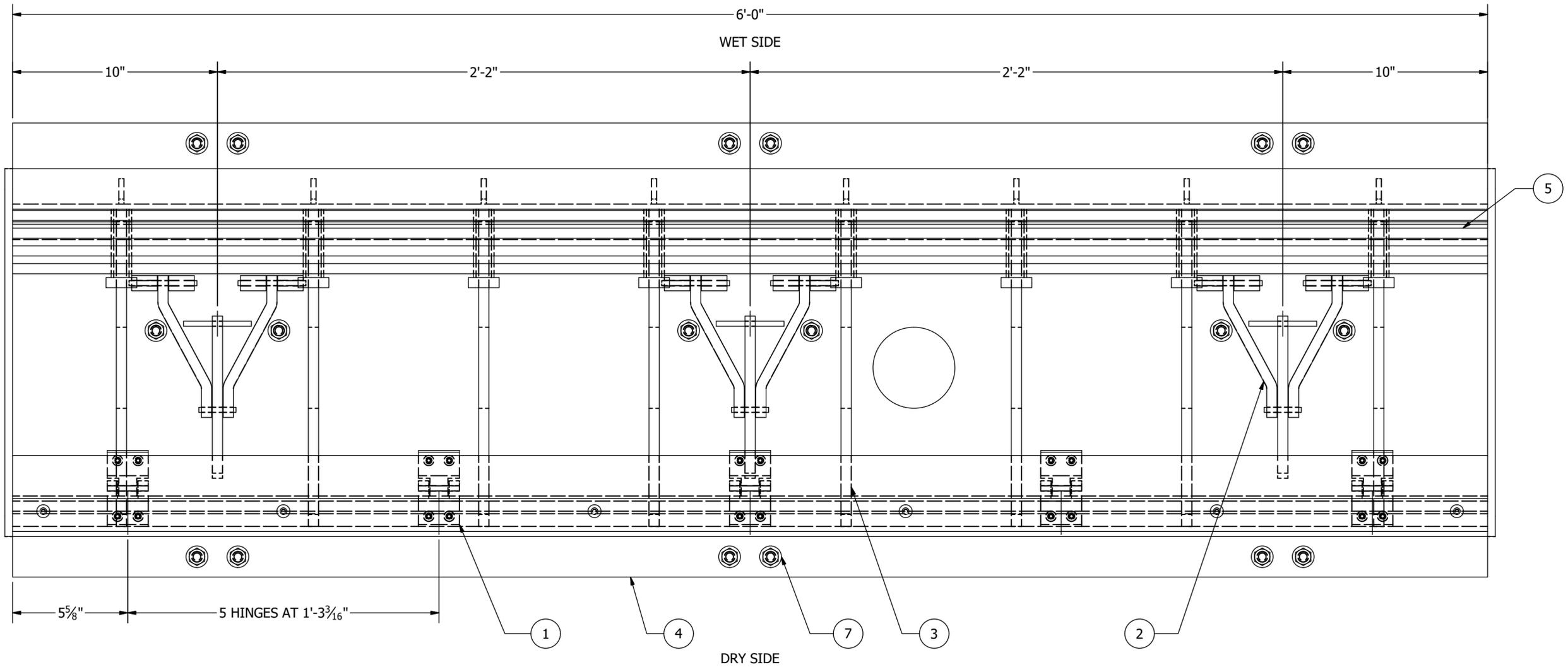
DRY SIDE

WET SIDE

DOWNSLOPE (NEGATIVE)



DEMO - SLIMLINE GATE STANDARD LOCATION SLIMLINE GATE 6'-0" L x 25 cm H		
SLIMLINE# 0003.3		
REV 0		
SCALE	VARIES	
DRAWN	A. JOLLY	8/1/2018
CHECKED	N. EASTMAN	8/1/2018
APPROVED	M. POSADA	8/1/2018
SHEET 2 OF 9		

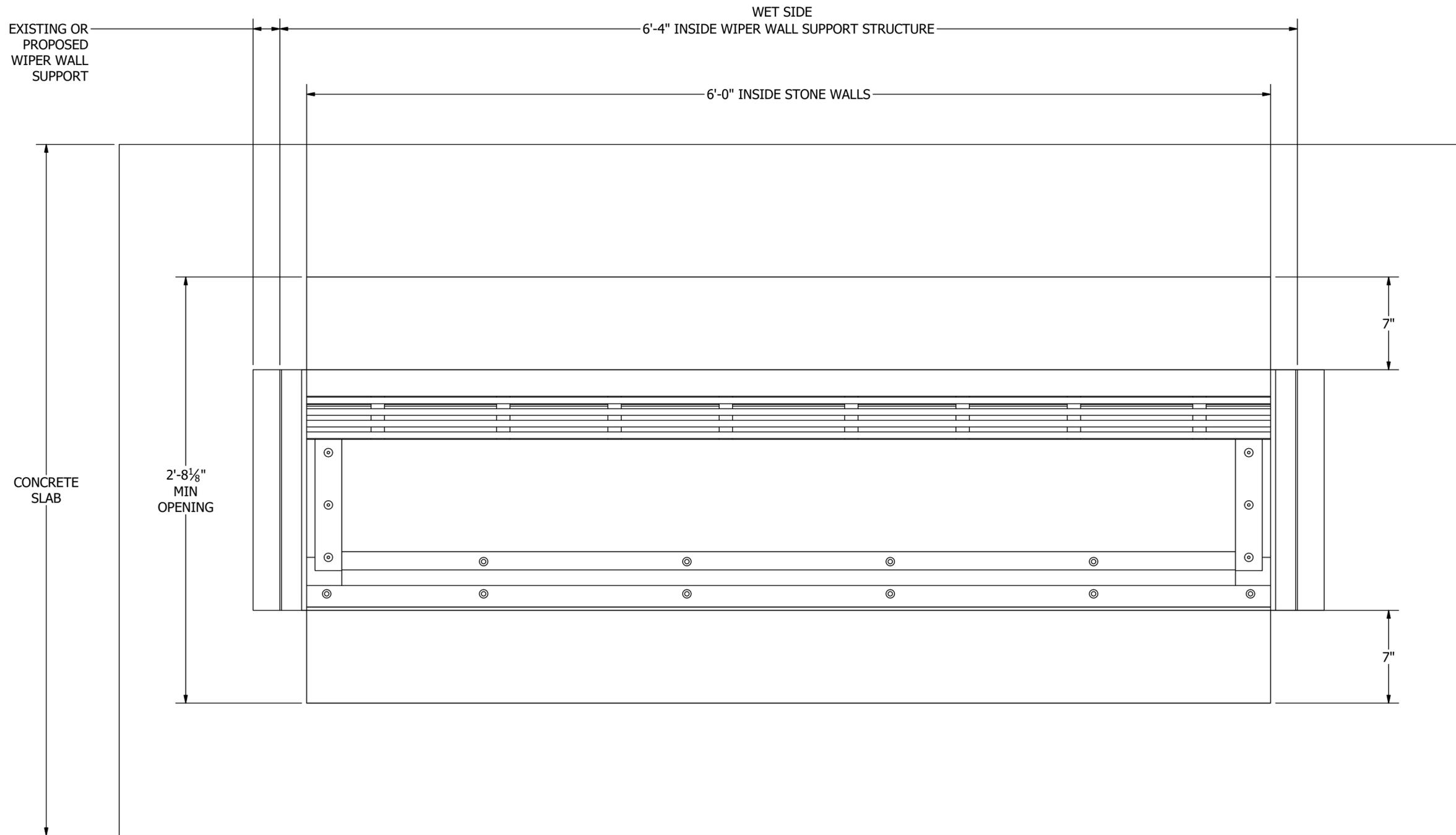


**RETENTION ARM AND HINGE LAYOUT**  
(LID REMOVED FOR CLARITY)

PARTS LIST	
ITEM	DESCRIPTION
1	HINGE
2	RETENTION ARM
3	PAN STIFFENER
4	PAN EXTRUSION
5	GRATING
6	WIPER WALL
7	1/2" ANCHOR BOLTS



DEMO - SLIMLINE GATE STANDARD LOCATION SLIMLINE GATE 6'-0" L x 25 cm H	
SLIMLINE# 0003.3	
REV 0	
SCALE	VARIABLES
DRAWN	A. JOLLY 8/1/2018
CHECKED	N. EASTMAN 8/1/2018
APPROVED	M. POSADA 8/1/2018
SHEET 3 OF 9	

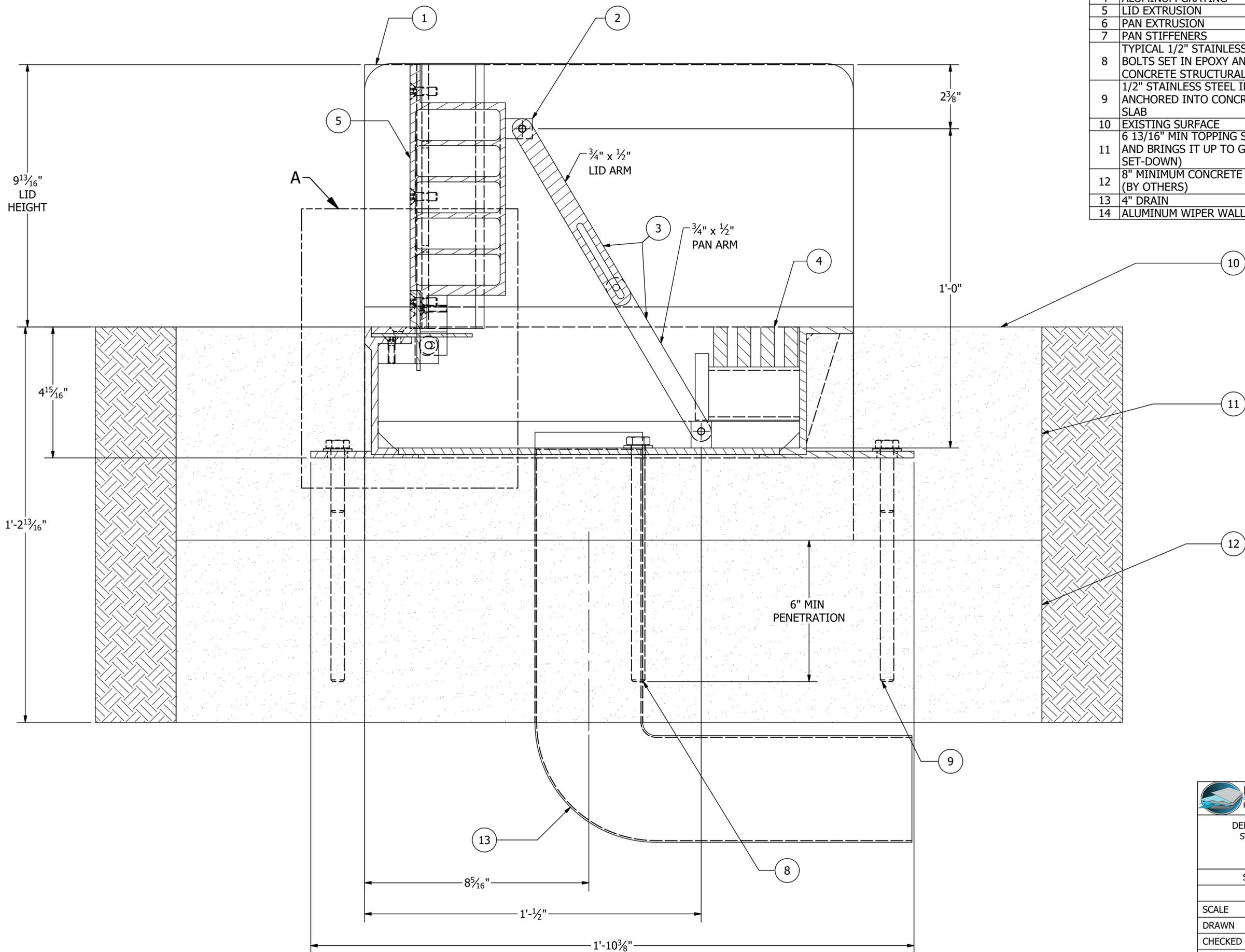


### GATE INSTALLATION VIEW



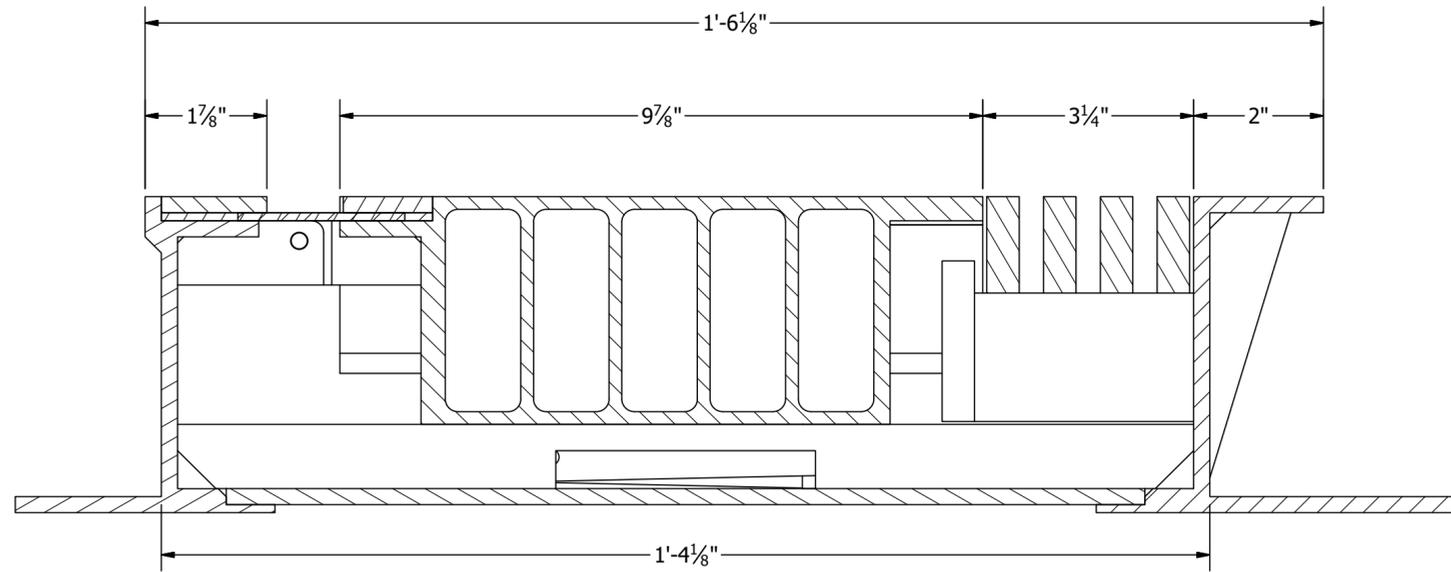
DEMO - SLIMLINE GATE STANDARD LOCATION SLIMLINE GATE 6'-0" L x 25 cm H		
SLIMLINE# 0003.3		
REV 0		
SCALE	VARIES	
DRAWN	A. JOLLY	8/1/2018
CHECKED	N. EASTMAN	8/1/2018
APPROVED	M. POSADA	8/1/2018
SHEET 4 OF 9		

PARTS LIST	
ITEM	DESCRIPTION
1	PROPOSED OR EXISTING STONE WALL (BY OTHERS)
2	RETENTION ARM ANCHOR PLATE
3	RETENTION ARM LID AND PAN
4	ALUMINUM GRATING
5	LID EXTRUSION
6	PAN EXTRUSION
7	PAN STIFFENERS
8	TYPICAL 1/2" STAINLESS STEEL ANCHOR BOLTS SET IN EPOXY AND ANCHORED INTO CONCRETE STRUCTURAL SLAB AS SHOWN
9	1/2" STAINLESS STEEL INSTALLATION BOLTS ANCHORED INTO CONCRETE STRUCTURAL SLAB
10	EXISTING SURFACE
11	6 13/16" MIN TOPPING SLAB ENVELOPES PAN AND BRINGS IT UP TO GRADE (FIELD VERIFY SET-DOWN)
12	8" MINIMUM CONCRETE STRUCTURAL SLAB (BY OTHERS)
13	4" DRAIN
14	ALUMINUM WIPER WALL

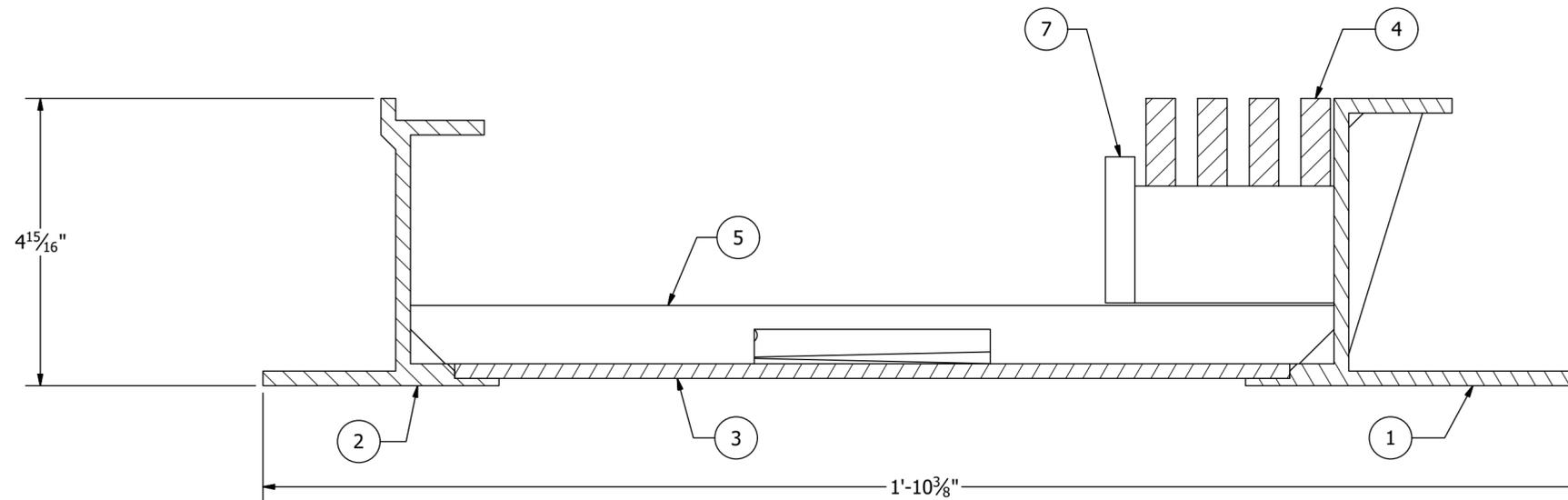


DEMO - SLIMLINE GATE STANDARD LOCATION SLIMLINE GATE 6'-0" L x 25 cm H		
SLIMLINE# 0003.3		
REV 0		
SCALE	VARIES	
DRAWN	A. JOLLY	8/1/2018
CHECKED	N. EASTMAN	8/1/2018
APPROVED	M. POSADA	8/1/2018
SHEET 5 OF 9		

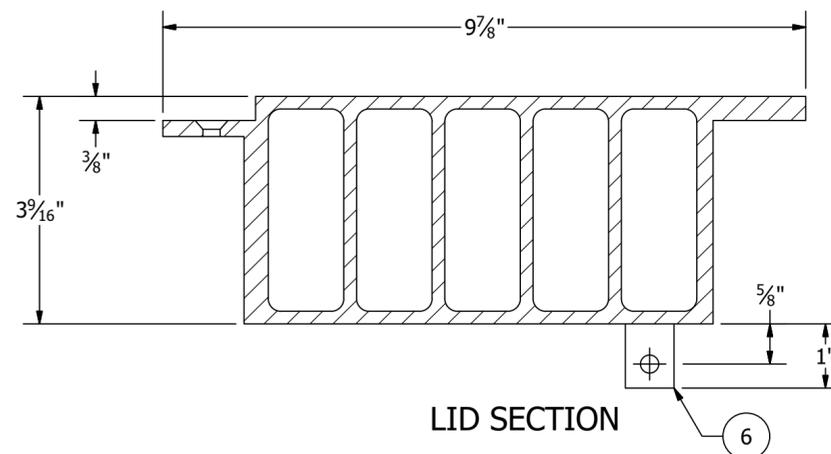
PARTS LIST	
ITEM	DESCRIPTION
1	WET SIDE PAN EXTRUSION
2	DRY SIDE PAN EXTRUSION
3	PAN PLATE
4	GRATING
5	PAN STIFFENER
6	LID RETENTION ANCHOR
7	GRATING HOLDER



LID AND PAN SECTION



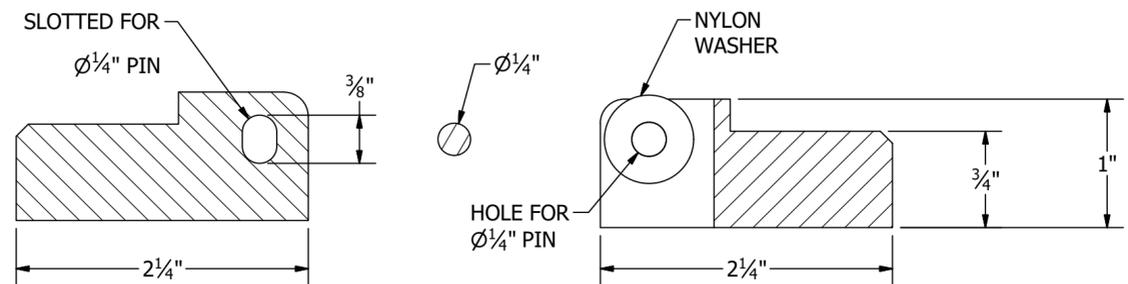
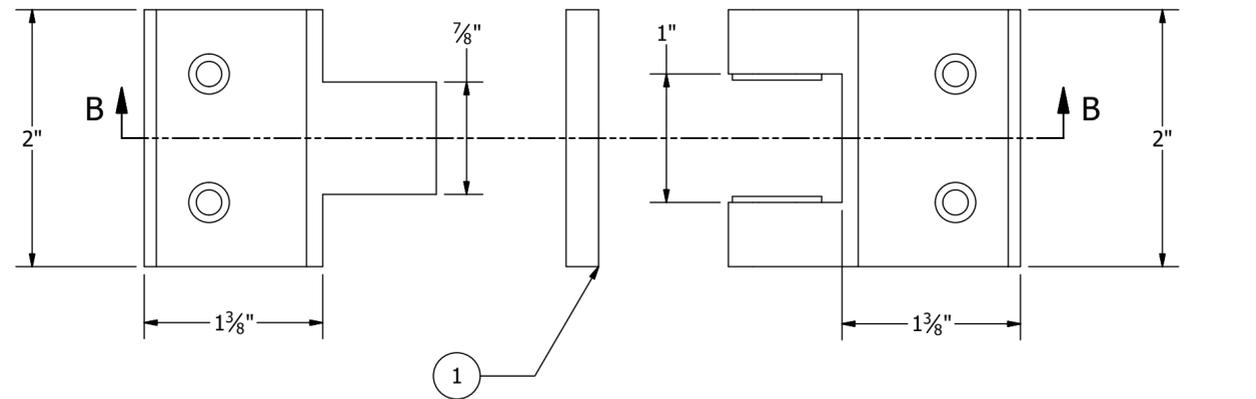
PAN SECTION



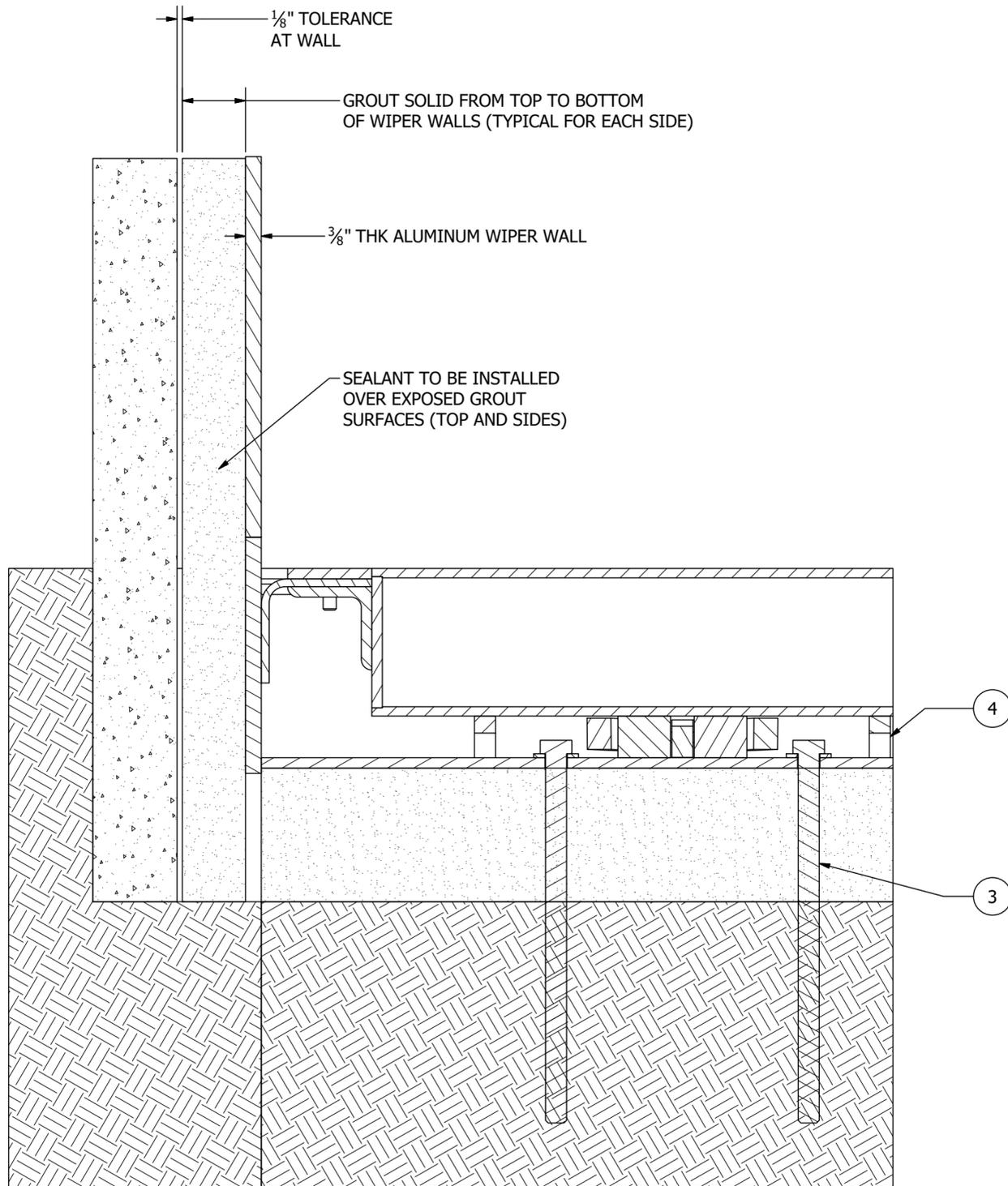
LID SECTION



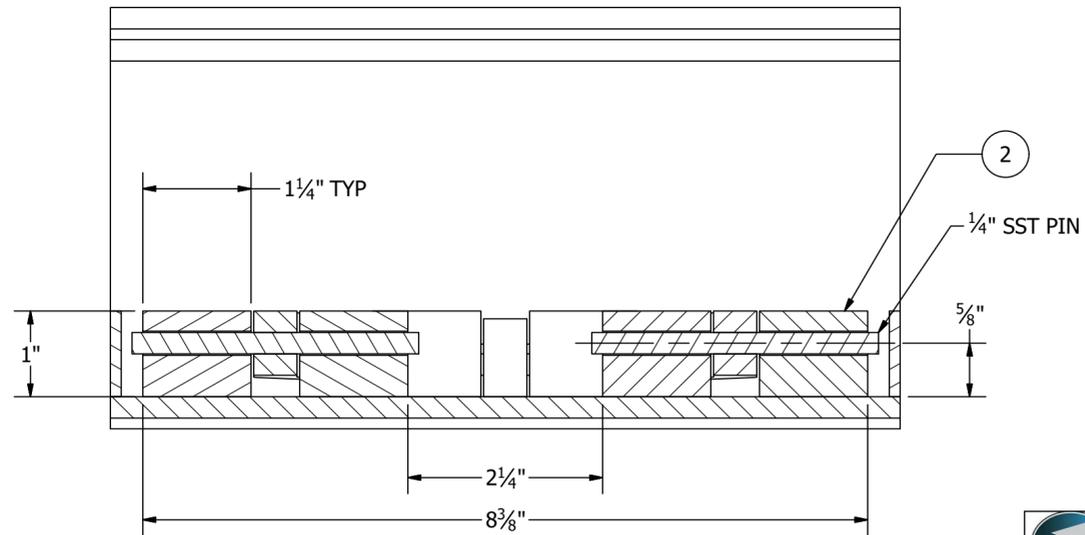
DEMO - SLIMLINE GATE STANDARD LOCATION SLIMLINE GATE 6'-0" L x 25 cm H		
SLIMLINE# 0003.3		
REV 0		
SCALE	VARIES	
DRAWN	A. JOLLY	8/1/2018
CHECKED	N. EASTMAN	8/1/2018
APPROVED	M. POSADA	8/1/2018
SHEET 6 OF 9		



HINGE SECTION B-B



TYP FRONT WIPER WALL SECTION



TYP PAN ANCHOR ASSY

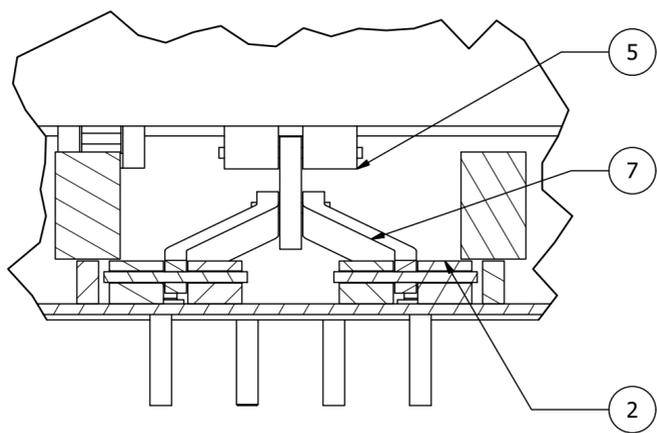
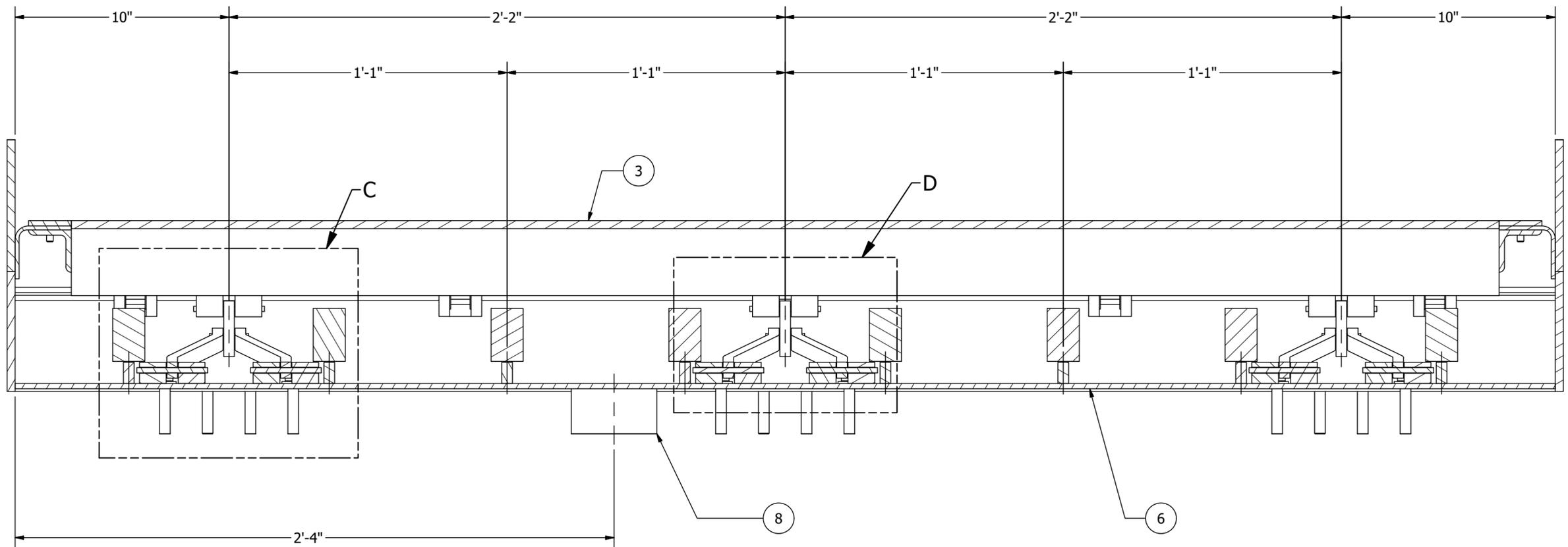


DEMO - SLIMLINE GATE  
STANDARD LOCATION  
SLIMLINE GATE  
6'-0" L x 25 cm H

SLIMLINE# 0003.3

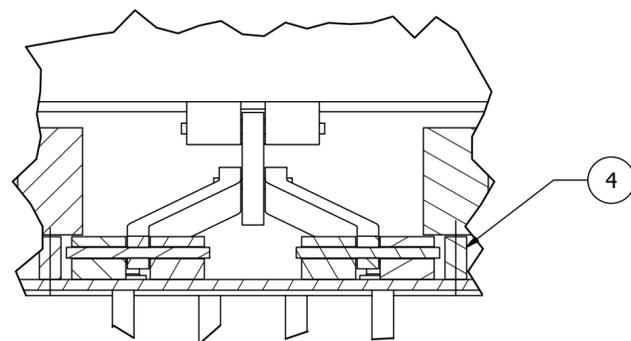
REV 0

PARTS LIST		SCALE	VARIES	
ITEM	DESCRIPTION	DRAWN	A. JOLLY	8/1/2018
1	SMALL HINGE ASSY	CHECKED	N. EASTMAN	8/1/2018
2	ANCHOR YOKES	APPROVED	M. POSADA	8/1/2018
3	1/2" ANCHOR BOLTS	SHEET 7 OF 9		
4	PAN STIFFENER			



DETAIL C

FRONT VIEW  
RETENTION ARM  
LAYOUT



DETAIL D

PARTS LIST	
ITEM	DESCRIPTION
1	WIPER WALL
2	PAN ANCHOR YOKES
3	LID EXTRUSION
4	TYP 1" x 1/2" PAN STIFFENERS
5	LID ANCHOR YOKES
6	PAN EXTRUSION PLATE
7	TYP 3/4" x 1/2" RETENTION ARMS
8	4" DRAIN

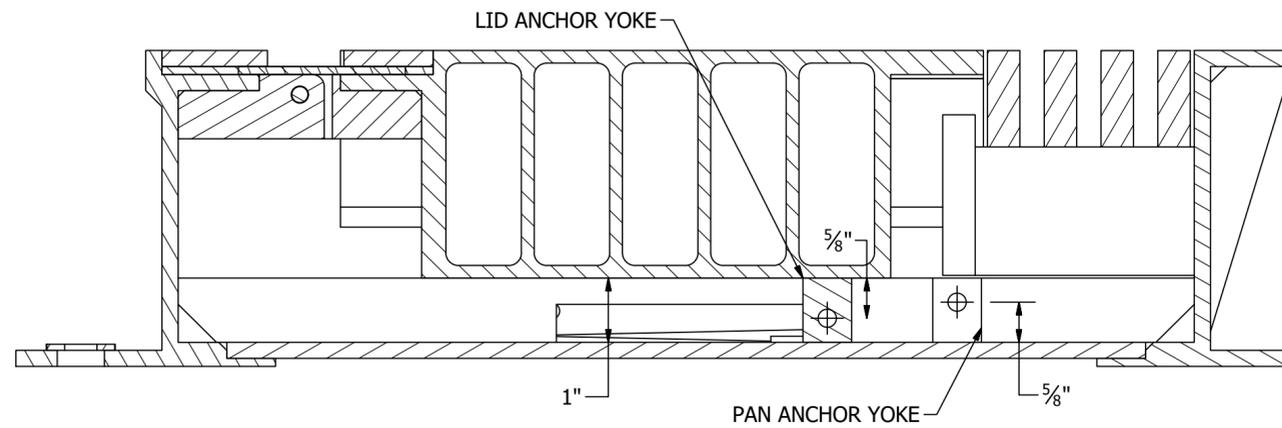
**FloodBreak**  
REVOLUTIONARY FLOOD CONTROL

DEMO - SLIMLINE GATE  
STANDARD LOCATION  
SLIMLINE GATE  
6'-0" L x 25 cm H

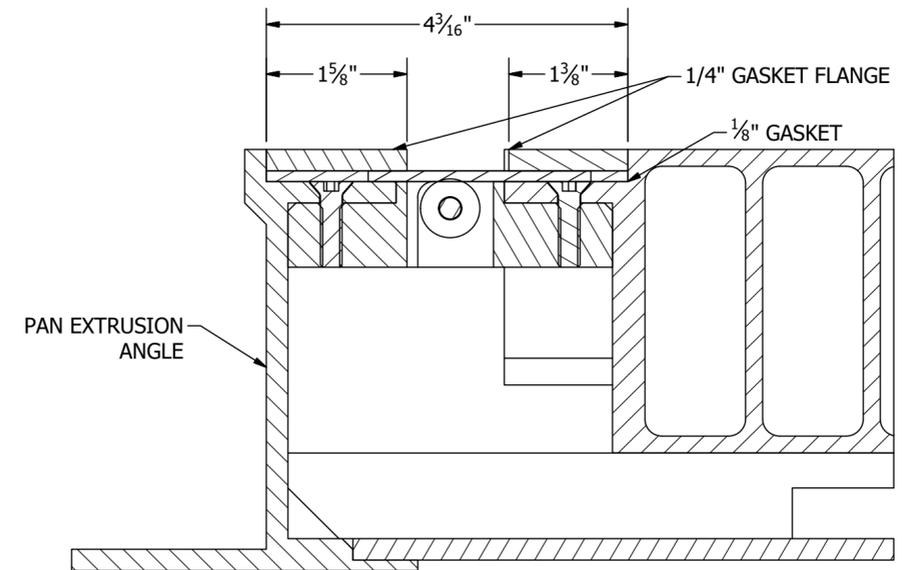
SLIMLINE# 0003.3

REV 0

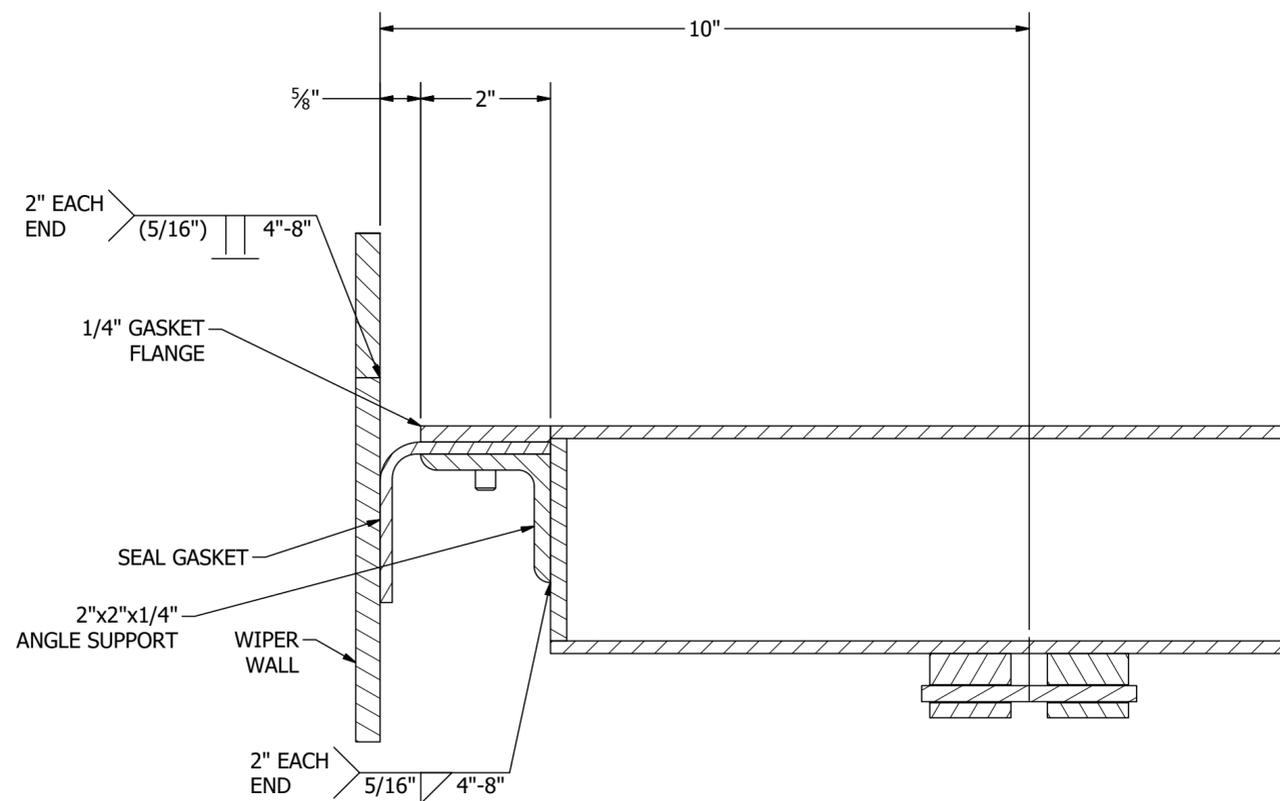
SCALE	VARIES	
DRAWN	A. JOLLY	8/1/2018
CHECKED	N. EASTMAN	8/1/2018
APPROVED	M. POSADA	8/1/2018
SHEET 8 OF 9		



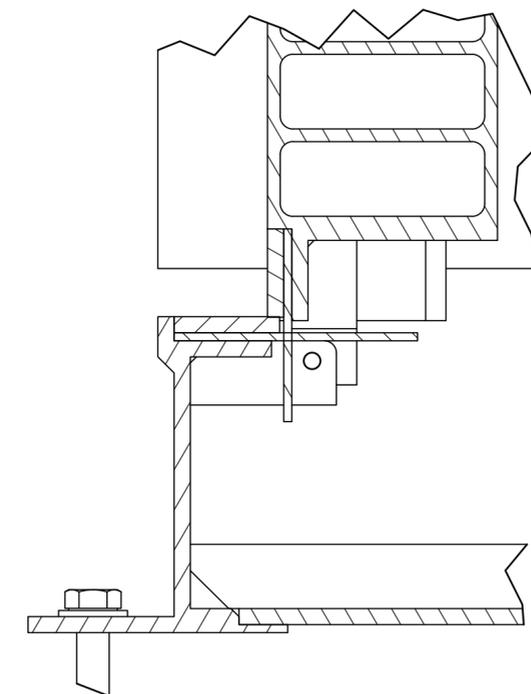
YOKE ANCHOR SECTION



HINGE DETAIL CLOSED



TYP LID AT WIPER WALL  
(CROPPED)



DETAIL A  
HINGE OPEN

 <b>FloodBreak</b> <small>REVOLUTIONARY FLOOD CONTROL</small>		
DEMO - SLIMLINE GATE STANDARD LOCATION SLIMLINE GATE 6'-0" L x 25 cm H		
SLIMLINE# 0003.3		
REV 0		
SCALE	VARIES	
DRAWN	A. JOLLY	8/1/2018
CHECKED	N. EASTMAN	8/1/2018
APPROVED	M. POSADA	8/1/2018
SHEET 9 OF 9		