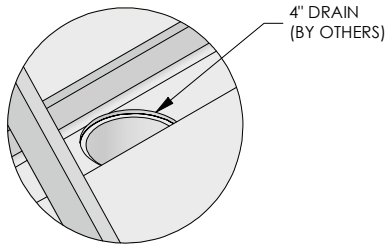
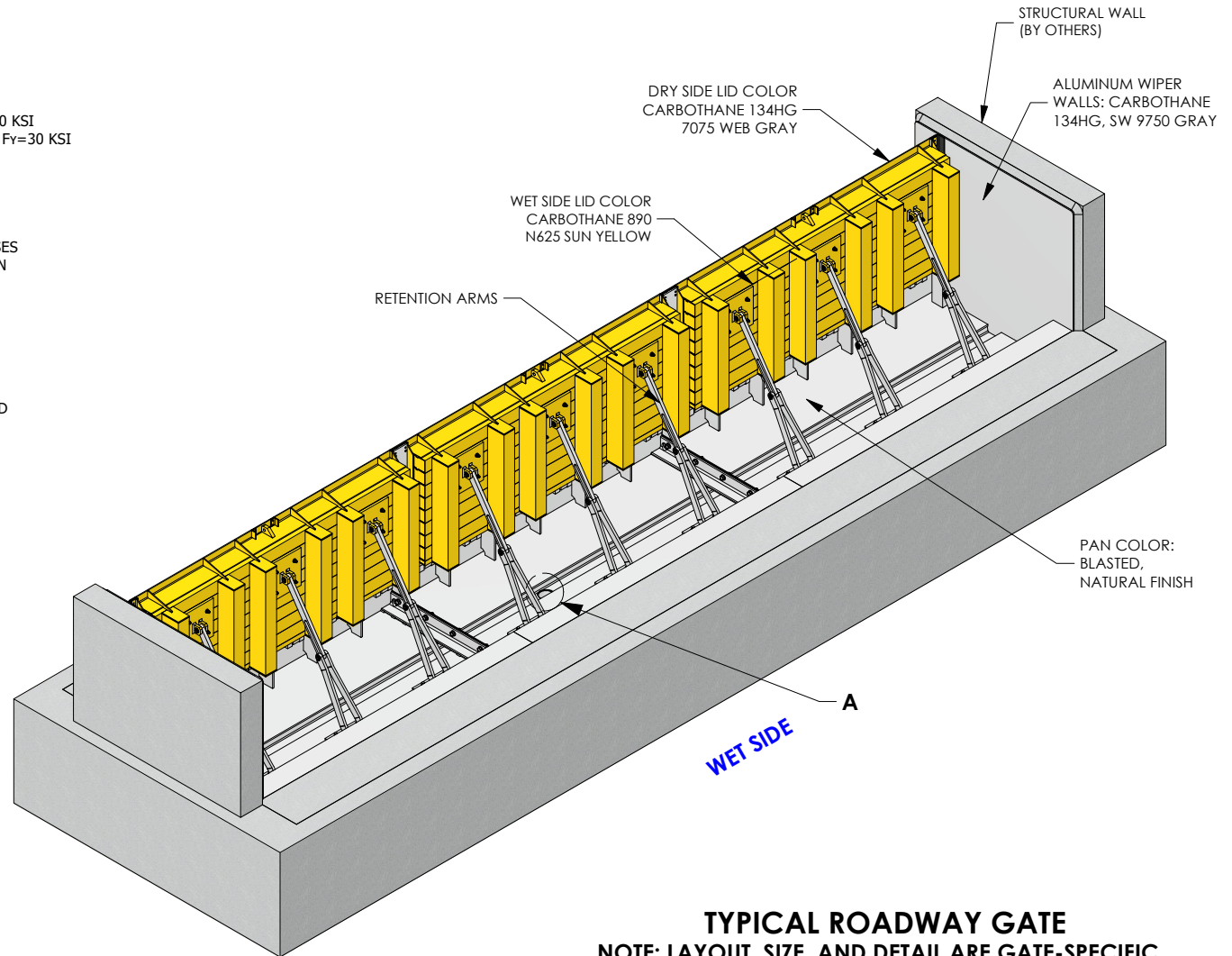


STRUCTURAL SPECIFICATIONS:

- FLOODGATE MATERIAL TO BE ALUMINUM AS FOLLOWS:
 - LID EXTRUSION - CUSTOM EXTRUSION - GRADE 6005A-T5 MIN Fy=31 KSI
 - LID WEAR PLATE - SMOOTH PLATE - GRADE 5052 MIN Fy=25.8 KSI
 - LID STIFFENER - TUBING - GRADE 6061 MIN Fy=35 KSI
 - PAN - SMOOTH PLATE - GRADE 5052 MIN Fy=25.8 KSI
 - PAN FRAME - CHANNEL FRAME GRADE 6061 MIN Fy=35 KSI
 - RETENTION ARMS - BAR - GRADE 6061 MIN Fy=35 KSI
 - STRUCTURAL BARS, ANGLES AND CHANNELS - GRADE 6061 MIN Fy=35 KSI
- HINGE AND RETENTION PINS TO BE STAINLESS STEEL - GRADE 304 MIN Fy=50 KSI
- BOLTS, FASTENERS AND ANCHORS TO BE STAINLESS STEEL - GRADE 304 MIN Fy=30 KSI
- ANCHOR BOLTS TO BE SET IN HILTI 200 INJECTABLE, TWO-COMPONENT, HYBRID ADHESIVE APPLIED PER HILTI SPECS
- ALUMINUM TO BE WELDED WITH ALUMINUM WIRE - PER 4043 AWS A5.10
- 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 4,000 PSI MINIMUM 28-DAY STRENGTH. REINFORCED IN EACH DIRECTION WITH ASTM A615 MIN Fy=60 KSI. SPECIAL ATTENTION SHALL BE TO PROPER SUPPORT OF RETENTION ARM ANCHOR BOLTS INTO THE SUPPORTING CONCRETE.
- FLOODBREAK RECOMMENDS ALL ENCASING CONCRETE FILL TO BE MINIMUM 3500PSI TO MEET HS-20/25 LOADING REQUIREMENTS. FINAL MIX DESIGN AND ANY REINFORCEMENT REQUIREMENTS SPECIFIED AND INSTALL BY OTHERS.
- ALL GASKET MATERIAL TO BE EPDM RUBBER.
- WEIGHTS:
 - PAN: 2153.4 LBS
 - LID: 2180.2 LBS
 - TOTAL WEIGHT: 5066.3 LBS
- SLOPE: NONE
- FLOODBREAK HAS DESIGNED THIS PRODUCT TO WITHSTAND STATED LOADS. STRUCTURE AND MOUNTING SURFACES TO WHICH THIS PRODUCT ATTACHES IS DESIGNED AND INSTALLED BY OTHERS.
 - FLOOD
 - STATIC FLOOD LOADING
 - DYNAMIC FLOOD LOAD OF 5 FPS
 - DEBRIS LOAD 500 LB OBJECT AT 5 FPS
- FEDERAL, STATE AND OTHER LOCAL BUILDING CODES/REGULATIONS INCLUDING BUT NOT LIMITED TO ACCESSIBILITY CODES AND REGULATIONS MAY APPLY. COMPLIANCE TO ANY AND ALL CODES, REGULATIONS AND GUIDELINES ARE BY OTHERS.

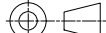


DETAIL A

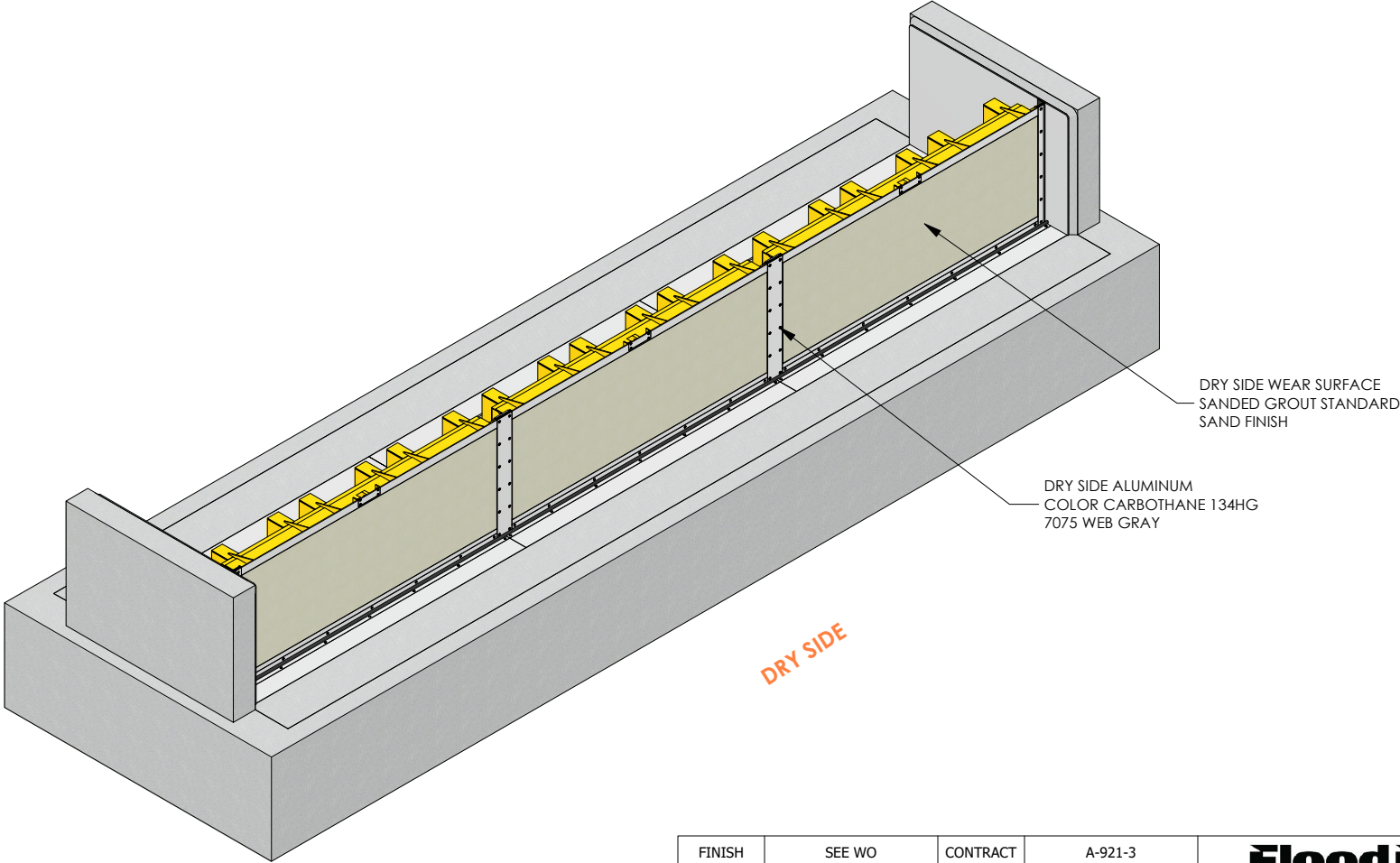
CONTRACTOR ACKNOWLEDGEMENT: _____

TYPICAL ROADWAY GATE

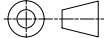
NOTE: LAYOUT, SIZE, AND DETAIL ARE GATE-SPECIFIC

FINISH	SEE WO	CONTRACT	A-921-3		<div>FloodBreak</div> <div>REVOLUTIONARY FLOOD CONTROL</div> <div>http://floodbreak.com</div>		
SERIAL	01387	PRODUCT	ROADWAY GATE				
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		DRAWN	JZ	3/14/2023			
		CHECKED	JB	3/14/2023			
		APPROVED	NE	3/14/2023			
DO NOT SCALE DRAWING					SHEET SIZE	DRAWING	REV
					A	01387-RG49-00000-00	0
					SCALE	N/A	SHEET
							1 OF 18

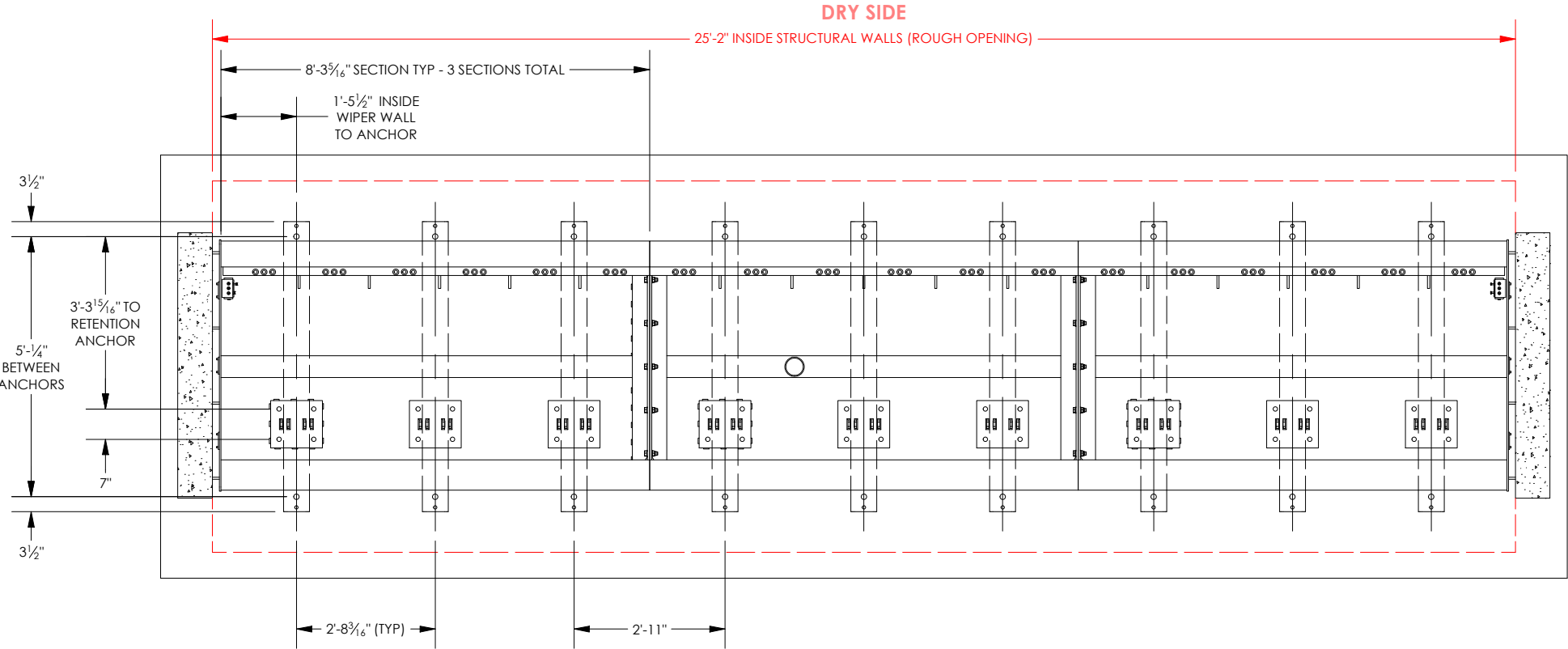
DRY SIDE DETAIL



CONTRACTOR ACKNOWLEDGEMENT: _____

FINISH	SEE WO	CONTRACT	A-921-3		<div><h1>FloodBreak</h1><h2>REVOLUTIONARY FLOOD CONTROL</h2><p>http://floodbreak.com</p><p>Example Drawing 24'-10" L x 3'-2" H</p></div>		
SERIAL	01387	PRODUCT	ROADWAY GATE				
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		DRAWN	JZ	3/14/2023			
		CHECKED	JB	3/14/2023			
		APPROVED	NE	3/14/2023			
		DO NOT SCALE DRAWING			SHEET SIZE	DRAWING	REV
					A	01387-RG49-00000-00	0
					SCALE		SHEET
					N/A		2 OF 18

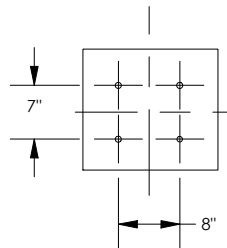
PLAN VIEW RELATIVE TO LEAVE-OUT



CONTRACTOR ACKNOWLEDGEMENT: _____

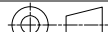
FINISH	SEE WO	CONTRACT	A-921-3		<div>FloodBreak</div> <div>REVOLUTIONARY FLOOD CONTROL</div> <div>http://floodbreak.com</div>		
SERIAL	01387	PRODUCT	ROADWAY GATE				
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		DRAWN	JZ	3/14/2023			
		CHECKED	JB	3/14/2023			
		APPROVED	NE	3/14/2023			
DO NOT SCALE DRAWING					SHEET SIZE	DRAWING	REV
					A	01387-RG49-00000-00	0
					SCALE	SHEET	
					N/A	3 OF 18	

ANCHOR LOCATIONS IN CONCRETE LEAVE-OUT
PROVIDED TO AID IN REBAR PLACEMENT
ANCHORS MUST NOT CONTACT STEEL REBAR
OR ANY OTHER STEEL MEMBERS.

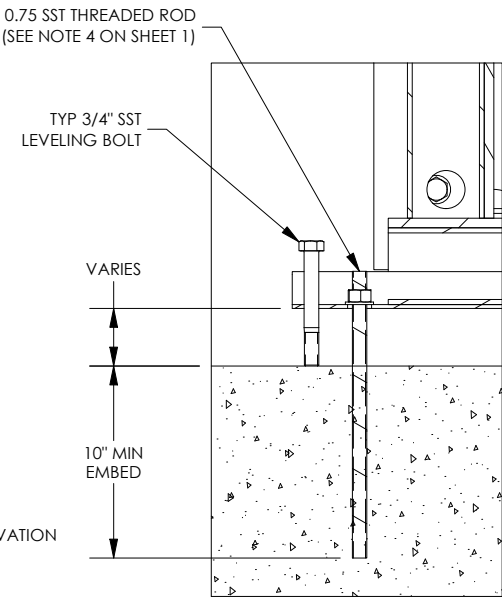
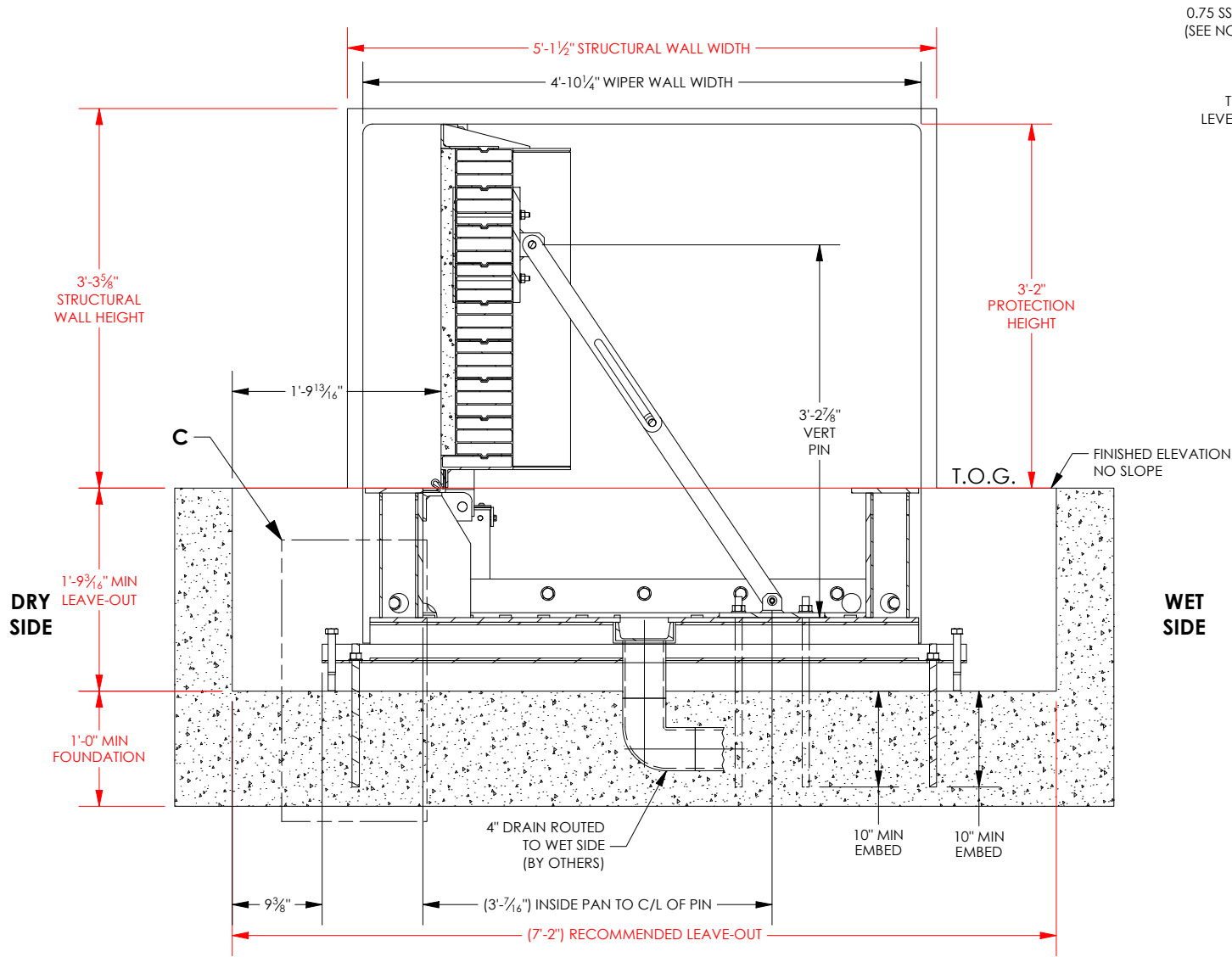


CONTRACTOR ACKNOWLEDGEMENT:_____

NOTE: EDGE OF BARRIER. SHOWN IN LEAVE OUT FOR REFERENCE ONLY.
ACTUAL PLACEMENT MAY VARY DEPENDENT UPON FIELD CONDITIONS

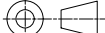
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SERIAL		01387		PRODUCT		ROADWAY GATE					
<div>THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE INTELLECTUAL PROPERTY OF FLOODBREAK, LLC., AND IS COVERED BY U.S. PATENTS AT PAT: HTTP://FLOODBREAK.COM/PATENTS/ AND PATENTS PENDING. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF FLOODBREAK, LLC. IS PROHIBITED.</div>					NAME	DATE		<div>SHEET SIZE</div> <div>A</div> <div>DRAWING</div> <div>01387-RG49-00000-00</div> <div>REV</div> <div>0</div>			
				DRAWN	JZ	3/14/2023					
				CHECKED	JB	3/14/2023					
				APPROVED	NE	3/14/2023					
				<div>DO NOT SCALE DRAWING</div>				<div>SCALE</div> <div>N/A</div> <div></div> <div>SHEET</div> <div>4 OF 18</div>			

TYPICAL CROSS-SECTION OF GATE ASSY



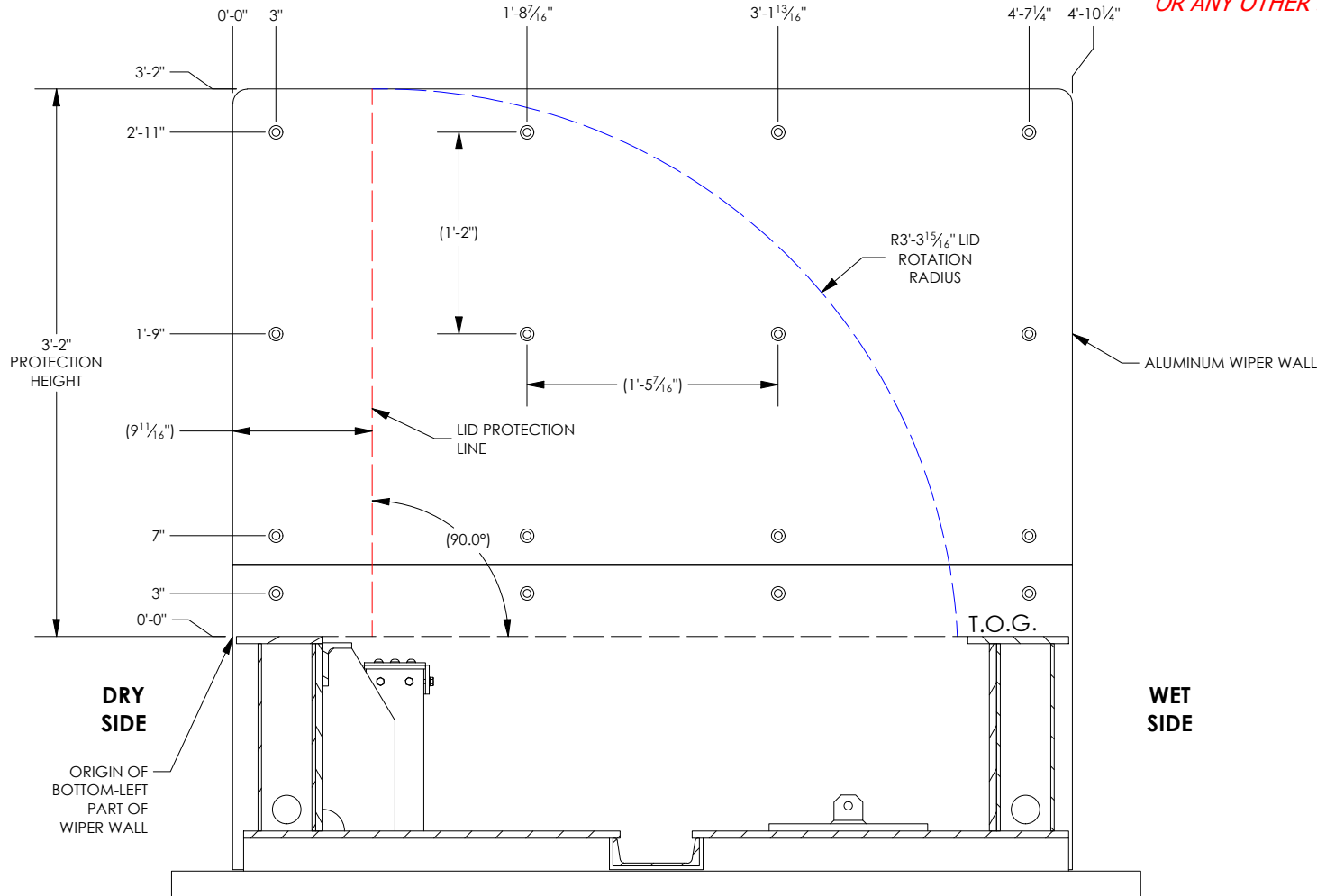
DETAIL C
ANCHOR AND
LEVELING BOLT DETAIL

CONTRACTOR ACKNOWLEDGEMENT: _____

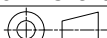
FINISH	SEE WO	CONTRACT	A-921-3		<div>FloodBreak</div> <div>REVOLUTIONARY FLOOD CONTROL</div> <div>http://floodbreak.com</div> <div>Example Drawing 24'-10" L x 3'-2" H</div>		
SERIAL	01387	PRODUCT	ROADWAY GATE				
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE INTELLECTUAL PROPERTY OF FLOODBREAK, LLC. , AND IS COVERED BY U.S. PATENTS AT PAT: HTTP://FLOODBREAK.COM/PATENTS/ AND PATENTS PENDING. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF FLOODBREAK, LLC. IS PROHIBITED.			NAME	DATE	TITLE		
		DRAWN	JZ	3/14/2023			
		CHECKED	JB	3/14/2023			
		APPROVED	NE	3/14/2023			
DO NOT SCALE DRAWING					SHEET SIZE	DRAWING	REV
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							SHEET
							5 OF 18

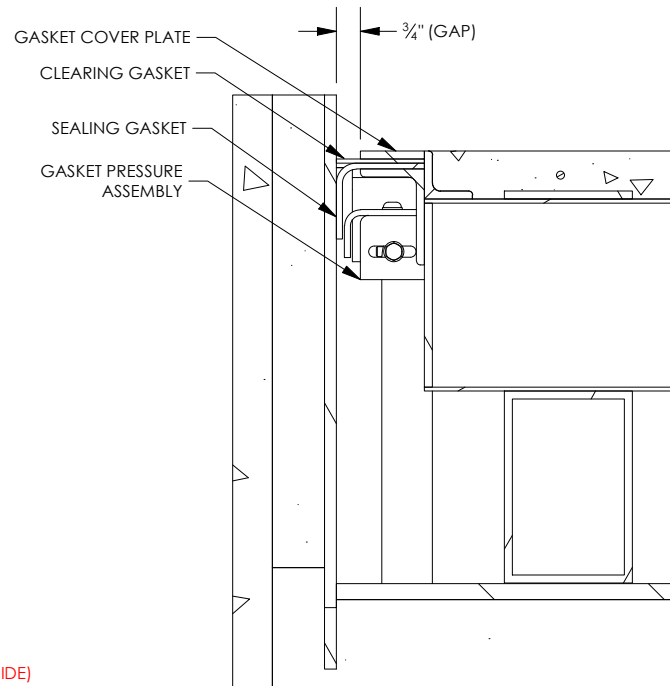
WIPER WALL ANCHOR LAYOUT FOR REFERENCE ONLY

WIPER WALL ANCHOR LOCATIONS IN STRUCTURAL WALL
PROVIDED TO AID IN REBAR PLACEMENT
**ANCHORS MUST NOT CONTACT STEEL REBAR
OR ANY OTHER STEEL MEMBERS.**

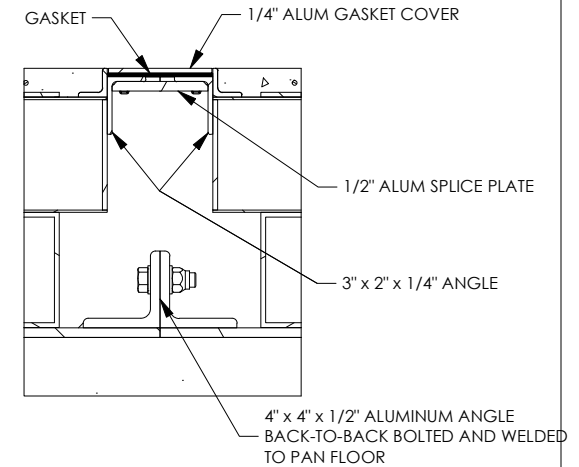


CONTRACTOR ACKNOWLEDGEMENT: _____

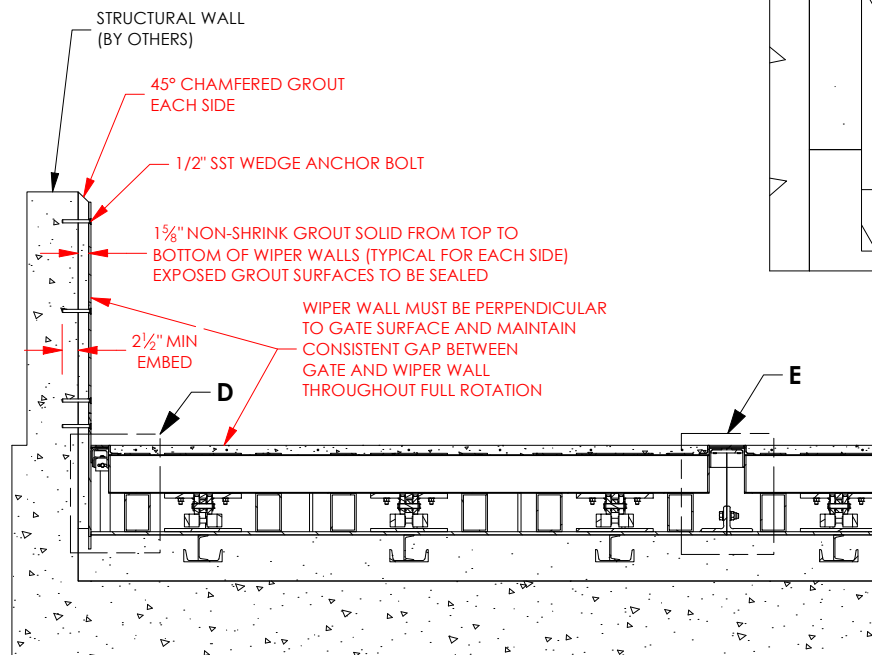
FINISH	SEE WO	CONTRACT	A-921-3		<div>FloodBreak</div> <div>REVOLUTIONARY FLOOD CONTROL</div> <div>http://floodbreak.com</div>		
SERIAL	01387	PRODUCT	ROADWAY GATE				
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		DRAWN	JZ	3/14/2023			
		CHECKED	JB	3/14/2023			
		APPROVED	NE	3/14/2023	<div>SHEET SIZE</div> <div>A</div> <div>DRAWING</div> <div>01387-RG49-00000-00</div> <div>REV</div> <div>0</div>		
DO NOT SCALE DRAWING		<div>SCALE</div> <div>N/A</div> <div></div> <div>SHEET</div> <div>6 OF 18</div>					



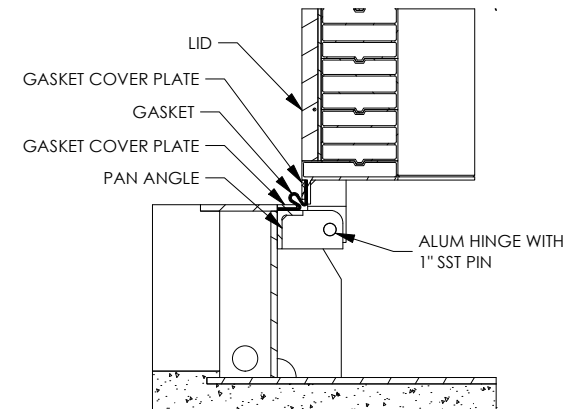
DETAIL D



**DETAIL E
SPLICE SECTION DETAIL**

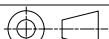


**LONGITUDINAL SECTION IN CLOSED POSITION
(VIEW FROM WET SIDE - CROPPED FOR CLARITY)**

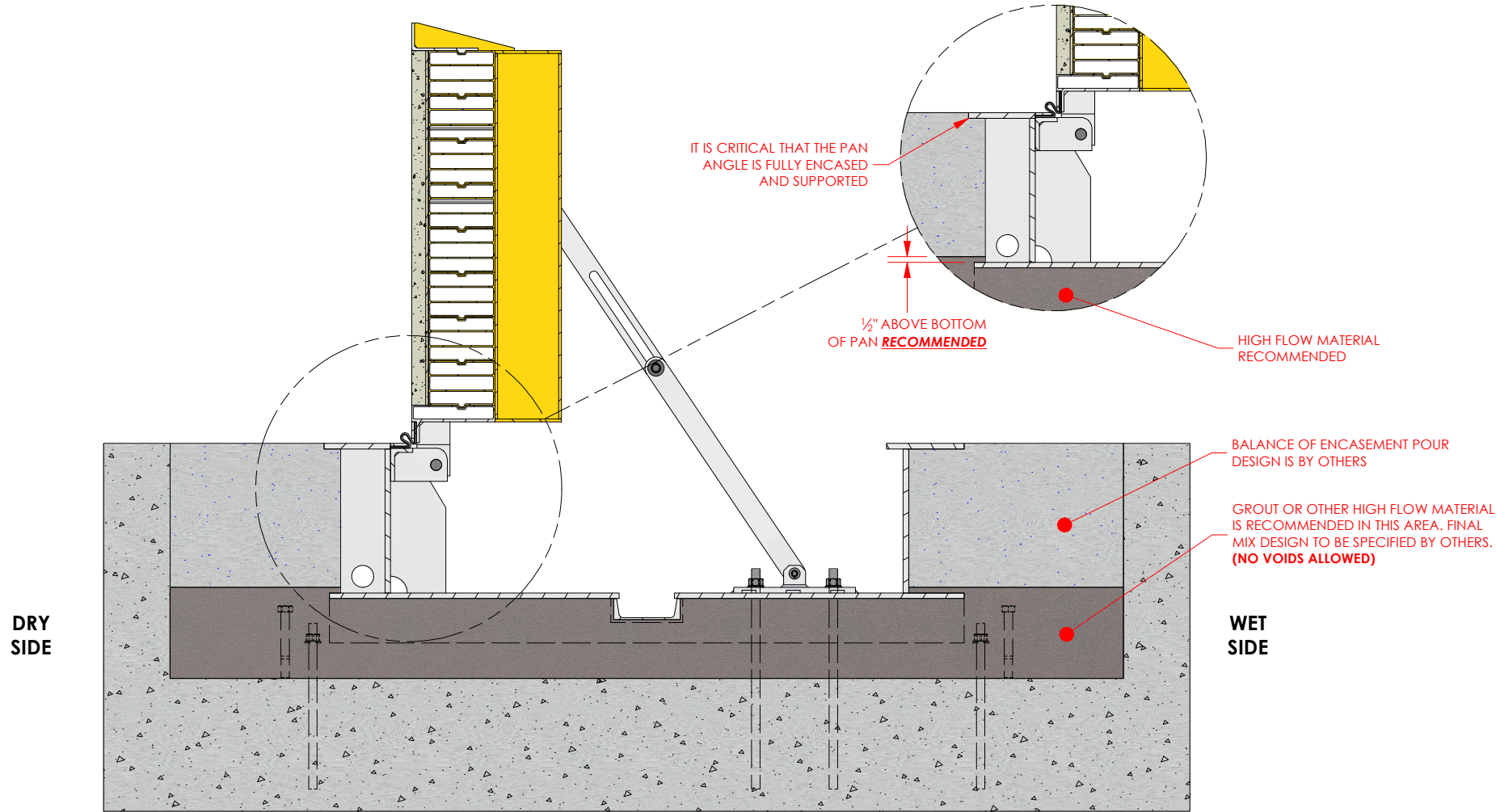


HINGE AND GASKET SECTION DETAIL

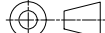
CONTRACTOR ACKNOWLEDGEMENT: _____

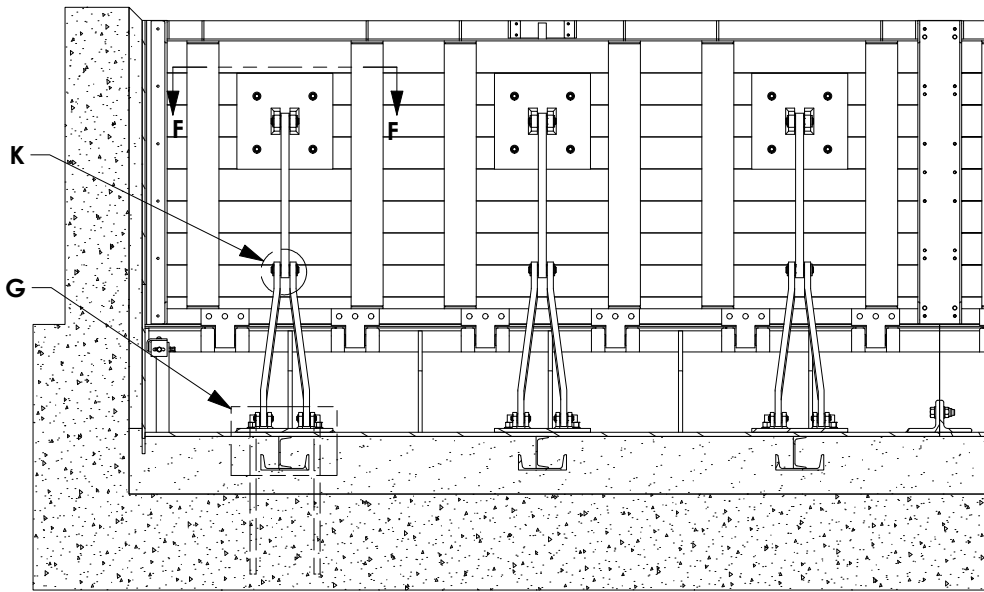
FINISH		SEE WO		CONTRACT		A-921-3		<div>FloodBreak</div> <div>REVOLUTIONARY FLOOD CONTROL</div> <div>http://floodbreak.com</div> <div>TITLE</div> <div>MICHIGAN TECHNOLOGICAL UNIVERSITY HOUGHTON, MI 24'-10" L x 3'-2" H</div>							
SERIAL		01387		PRODUCT		ROADWAY GATE									
<div>THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE INTELLECTUAL PROPERTY OF FLOODBREAK, LLC., AND IS COVERED BY U.S. PATENTS AT PAT: HTTP://FLOODBREAK.COM/PATENTS/ AND PATENTS PENDING. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF FLOODBREAK, LLC. IS PROHIBITED.</div>										NAME		DATE			
										DRAWN		JZ		3/14/2023	
										CHECKED		JB		3/14/2023	
										APPROVED		NE		3/14/2023	
<div>DO NOT SCALE DRAWING</div>								SHEET SIZE		DRAWING		REV			
								A		01387-RG49-00000-00		0			
								SCALE		N/A		<div></div>		SHEET	
												7 OF 18			

ENCASEMENT POURING DETAILS
(NO VOIDS ALLOWED)

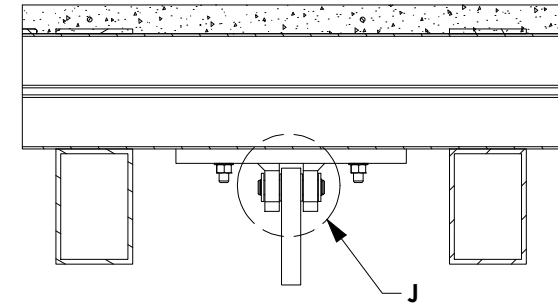


CONTRACTOR ACKNOWLEDGEMENT: _____

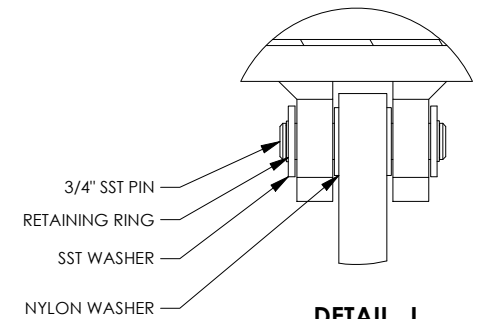
FINISH	SEE WO	CONTRACT	A-921-3		<div>FloodBreak</div> <div>REVOLUTIONARY FLOOD CONTROL</div> <div>http://floodbreak.com</div>		
SERIAL	01387	PRODUCT	ROADWAY GATE				
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		CHECKED	JB	3/14/2023			
		APPROVED	NE	3/14/2023			
		DO NOT SCALE DRAWING			SHEET SIZE	DRAWING	REV
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					N/A		8 OF 18



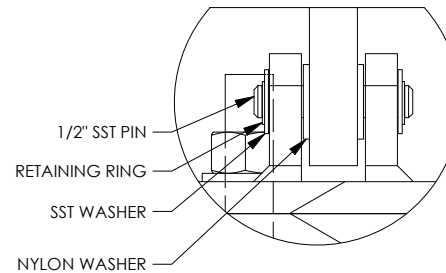
**GATE LONGITUDINAL SECTION OPEN
SECTION VIEW FROM WET SIDE
(CROPPED FOR CLARITY)**



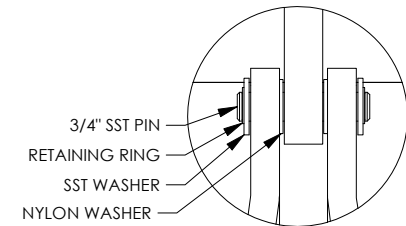
**SECTION F-F
LID DETAIL**



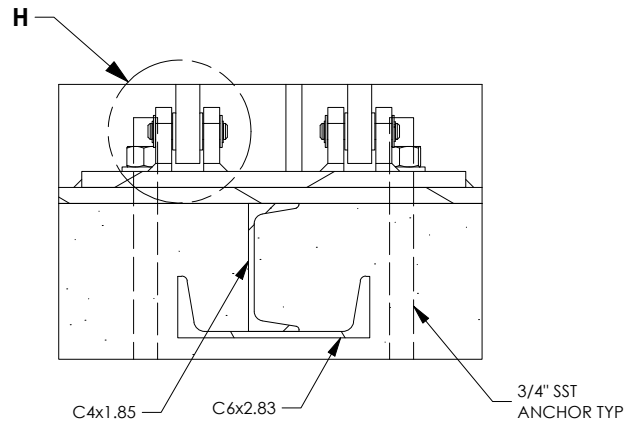
**DETAIL J
LID CONNECTION DETAIL**



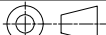
**DETAIL H
PAN CONNECTION DETAIL**



**DETAIL K
RETENTION
CONNECTION DETAIL**

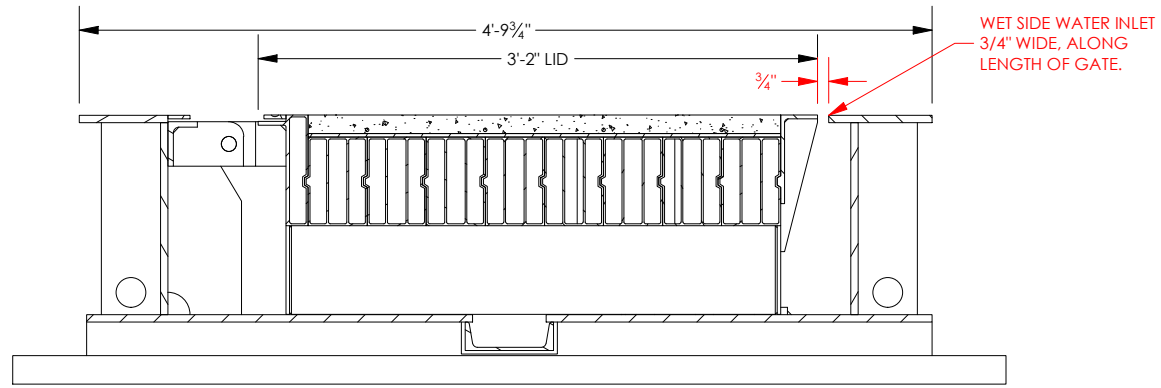


**DETAIL G
PAN DETAIL**

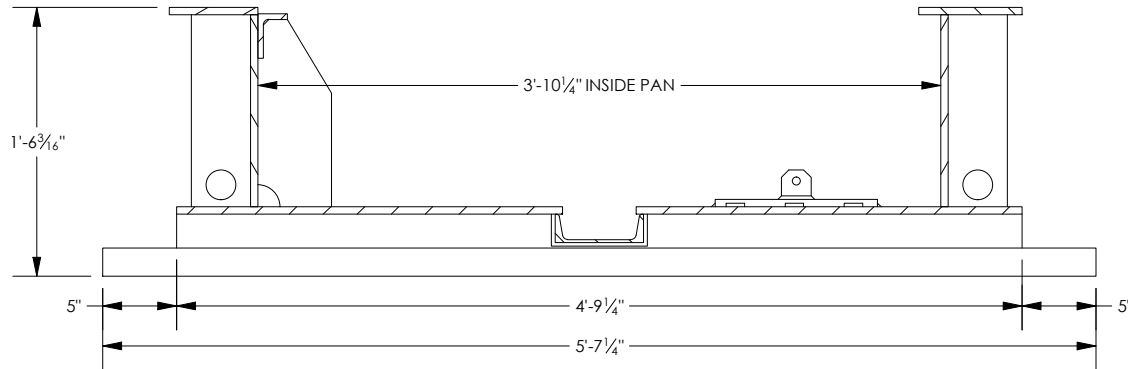
FINISH		SEE WO		CONTRACT		A-921-3		<div>FloodBreak</div> <div>REVOLUTIONARY FLOOD CONTROL</div> <div>http://floodbreak.com</div>			
SERIAL		01387		PRODUCT		ROADWAY GATE					
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						DRAWN		JZ			
				CHECKED		JB		3/14/2023			
				APPROVED		NE		3/14/2023			
				<div>DO NOT SCALE DRAWING</div>		SHEET SIZE		DRAWING			
A		01387-RG49-00000-00				0					
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DRY SIDE

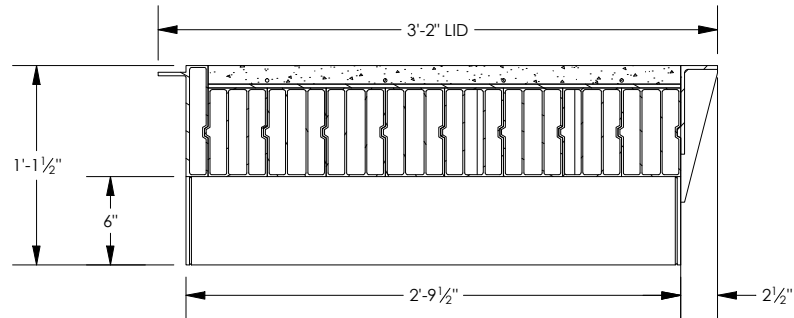
WET SIDE



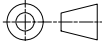
LID AND PAN SECTION



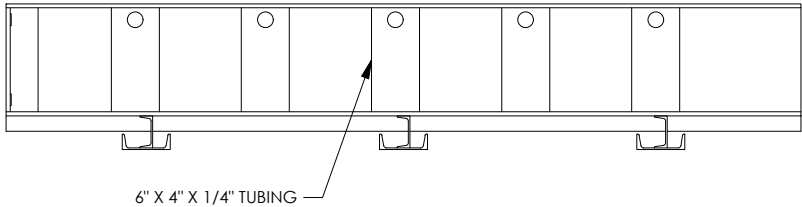
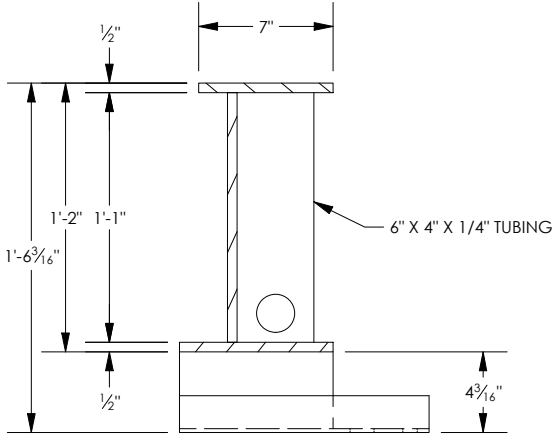
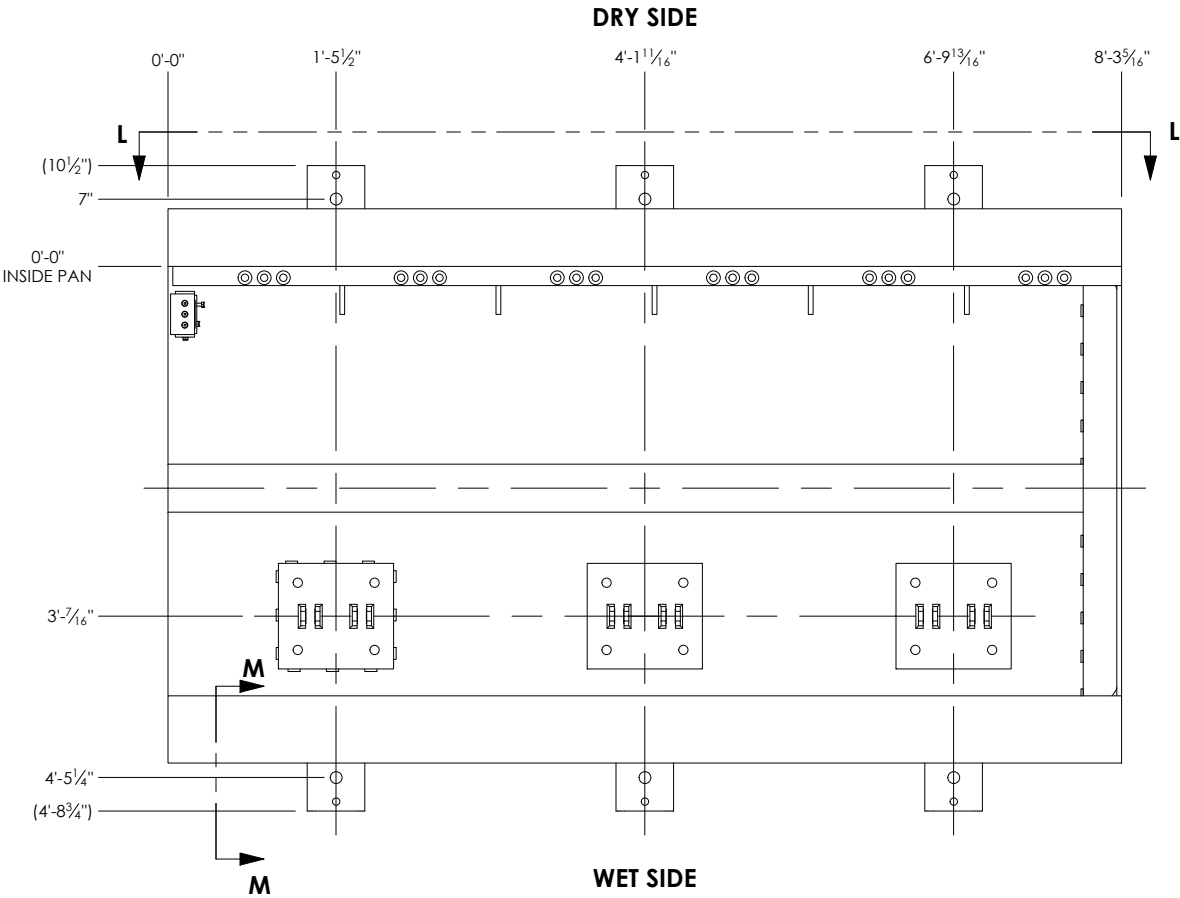
PAN SECTION



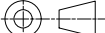
LID SECTION

FINISH	SEE WO	CONTRACT	A-921-3		<div>FloodBreak</div> <div>REVOLUTIONARY FLOOD CONTROL</div> <div>http://floodbreak.com</div>
SERIAL	01387	PRODUCT	ROADWAY GATE		
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		DRAWN	JZ	3/14/2023	
		CHECKED	JB	3/14/2023	
		APPROVED	NE	3/14/2023	
DO NOT SCALE DRAWING					<div><div>SHEET SIZE</div><div>A</div><div>SCALE</div><div>N/A</div></div>
		DRAWING			<div>01387-RG49-00000-00</div> <div></div>
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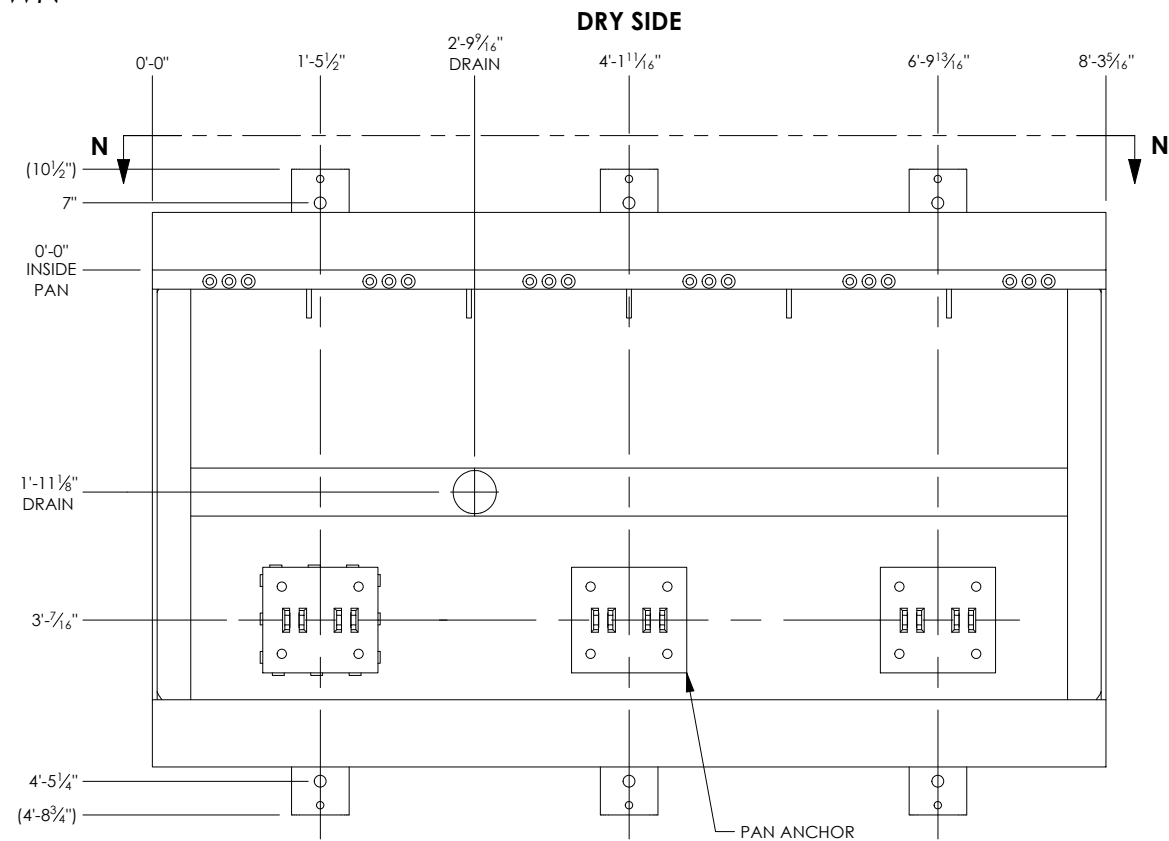
ASSEMBLED PAN AND ANCHOR LAYOUT
LEFT PAN SHOWN



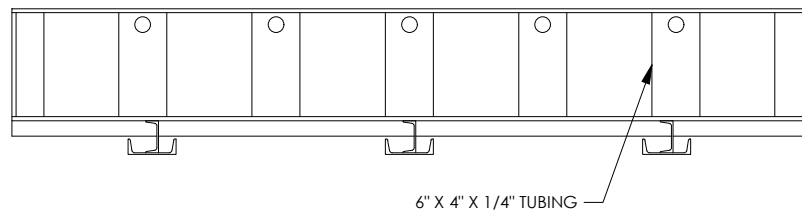
VIEW L-L
DRY SIDE ELEVATION

FINISH	SEE WO	CONTRACT	A-921-3		<div>FloodBreak</div> <div>REVOLUTIONARY FLOOD CONTROL</div> <div>http://floodbreak.com</div>		
SERIAL	01387	PRODUCT	ROADWAY GATE				
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		DRAWN	JZ	3/14/2023			
		CHECKED	JB	3/14/2023			
		APPROVED	NE	3/14/2023			
DO NOT SCALE DRAWING					SHEET SIZE	DRAWING	REV
					A	01387-RG49-00000-00	0
					SCALE		SHEET
					N/A		11 OF 18


ASSEMBLED PAN AND ANCHOR LAYOUT
CENTER PAN SHOWN



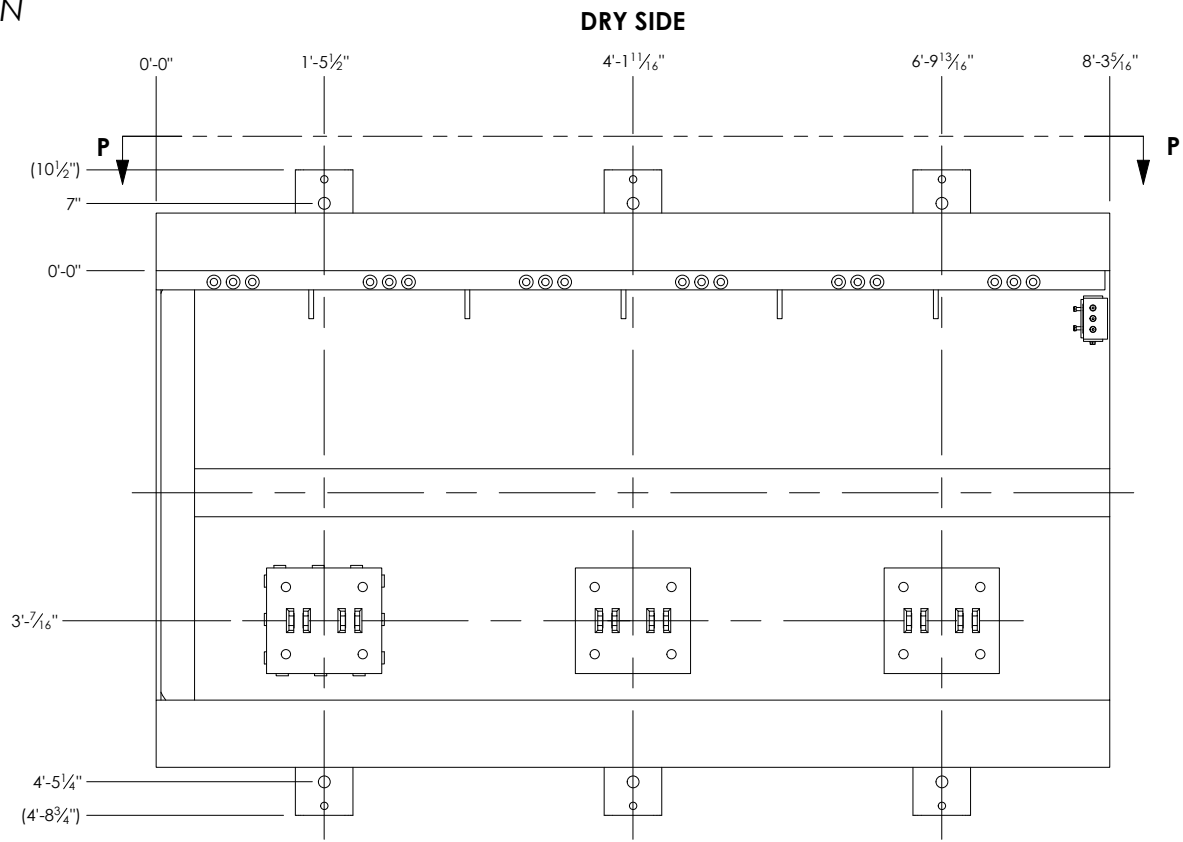
WET SIDE



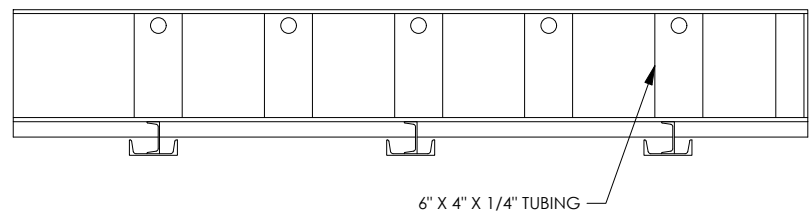
VIEW N-N
DRY SIDE ELEVATION

FINISH	SEE WO	CONTRACT	A-921-3		<div>FloodBreak</div> <div>REVOLUTIONARY FLOOD CONTROL</div> <div>http://floodbreak.com</div>		
SERIAL	01387	PRODUCT	ROADWAY GATE				
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			DRAWN	JZ	3/14/2023		
			CHECKED	JB	3/14/2023		
			APPROVED	NE	3/14/2023		
DO NOT SCALE DRAWING			SHEET SIZE		DRAWING	REV	
			A		01387-RG49-00000-00	0	
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						12 OF 18	

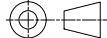
ASSEMBLED PAN AND ANCHOR LAYOUT
RIGHT PAN SHOWN



WET SIDE

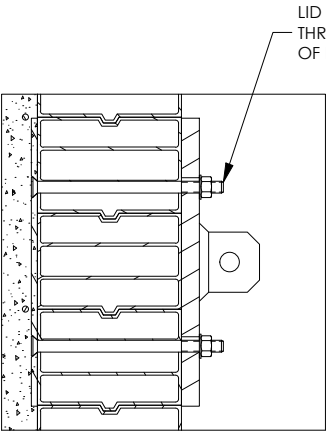


VIEW P-P
DRY SIDE ELEVATION

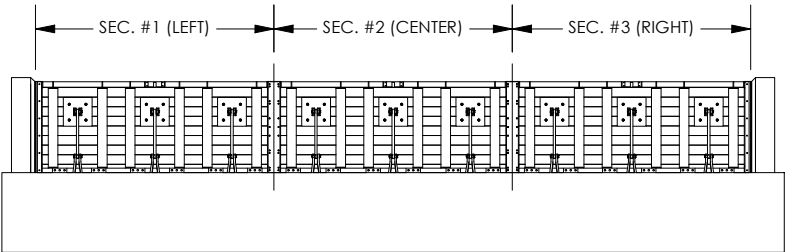
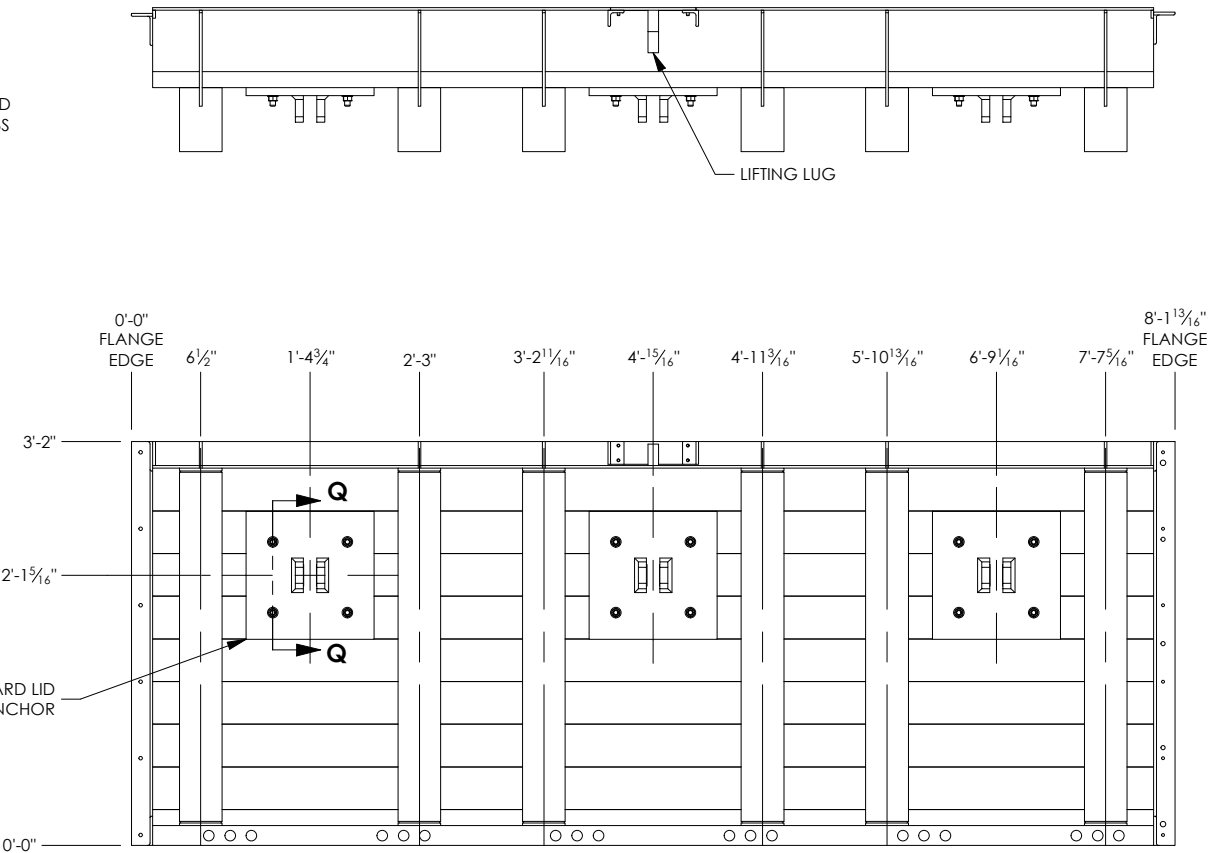
FINISH	SEE WO	CONTRACT	A-921-3		<div>FloodBreak</div> <div>REVOLUTIONARY FLOOD CONTROL</div> <div>http://floodbreak.com</div>		
SERIAL	01387	PRODUCT	ROADWAY GATE				
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		CHECKED	JB	3/14/2023			
		APPROVED	NE	3/14/2023			
DO NOT SCALE DRAWING					SHEET SIZE	DRAWING	REV
					A	01387-RG49-00000-00	0
					SCALE	N/A	SHEET
							13 OF 18

ASSEMBLED LID AND ANCHOR LAYOUT

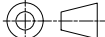
(LEFT SECTION SHOWN, STIFFENER AND ANCHOR LAYOUT TYPICAL)



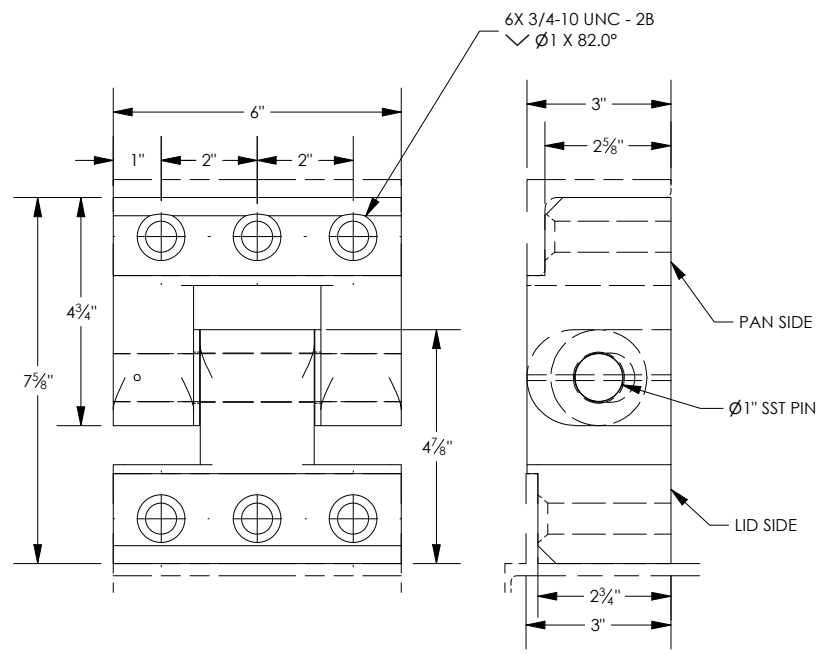
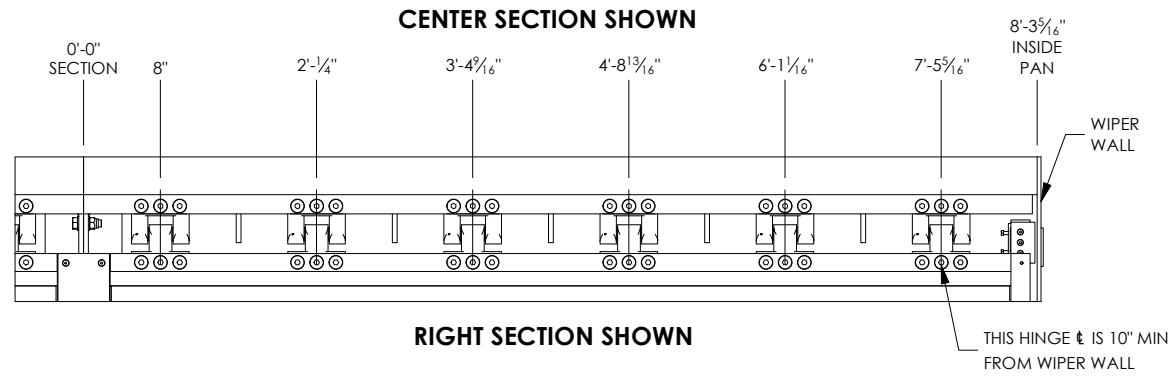
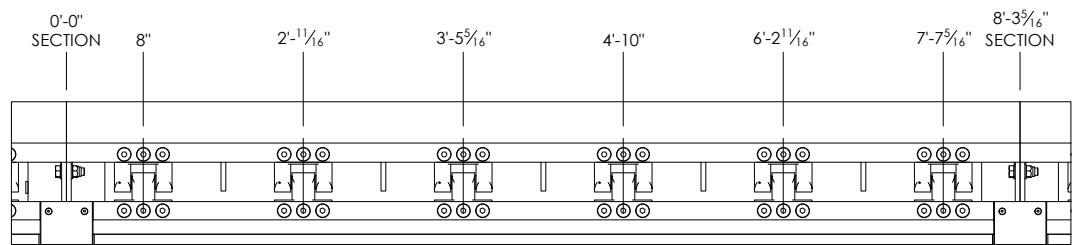
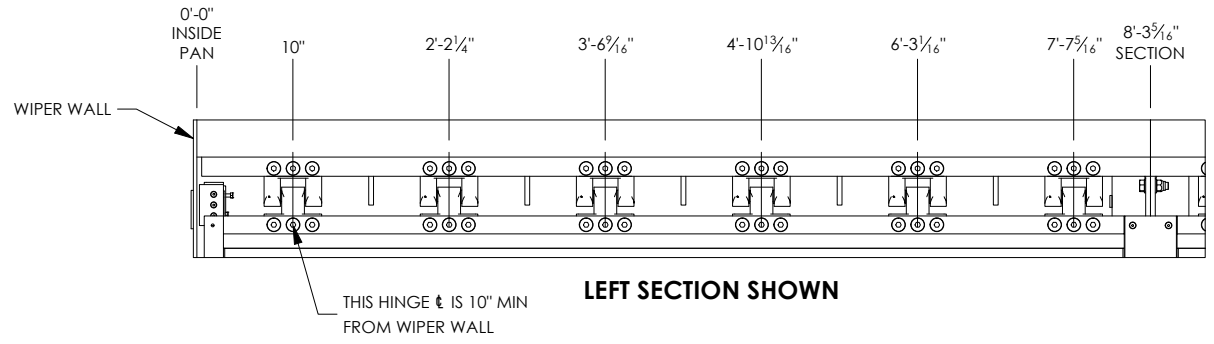
SECTION Q-Q



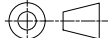
GATE ASSY (ELEVATION VIEW)

FINISH	SEE WO	CONTRACT	A-921-3		<div>FloodBreak</div> <div>REVOLUTIONARY FLOOD CONTROL</div> <div>http://floodbreak.com</div> <div>Example Drawing 24'-10" L x 3'-2" H</div>		
SERIAL	01387	PRODUCT	ROADWAY GATE				
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		DRAWN	JZ	3/14/2023			
		CHECKED	JB	3/14/2023			
		APPROVED	NE	3/14/2023			
DO NOT SCALE DRAWING					SHEET SIZE	DRAWING	REV
					A	01387-RG49-00000-00	0
					SCALE		SHEET
					N/A		14 OF 18

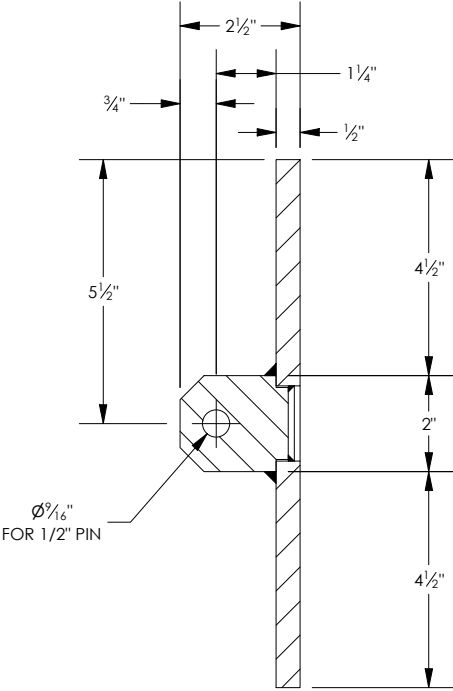
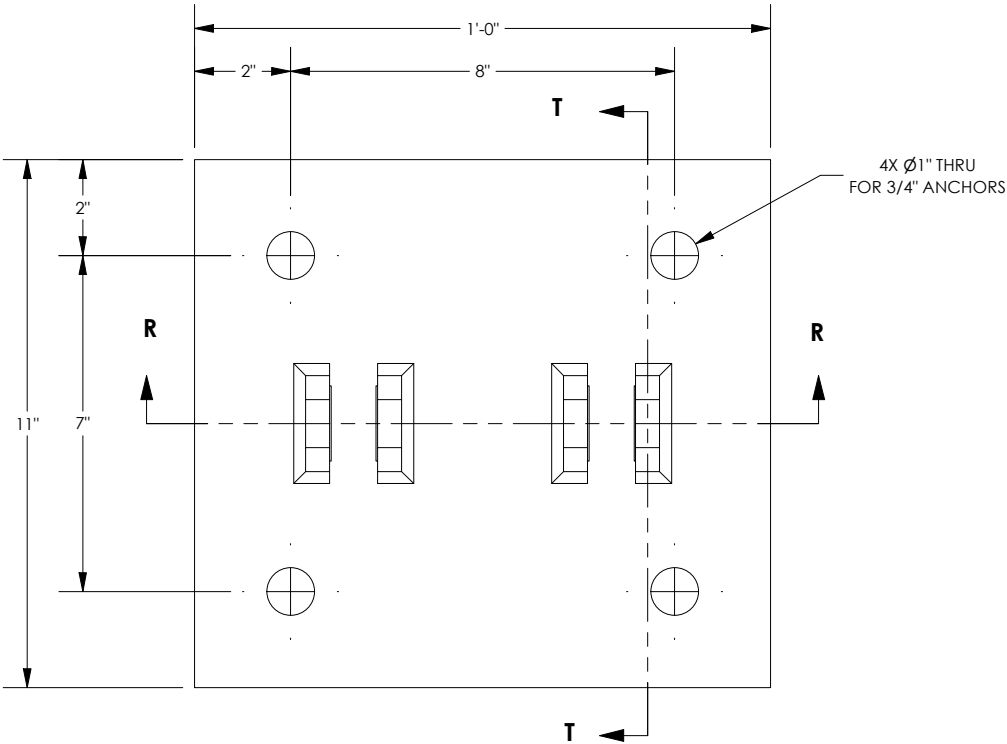
HINGE DETAILS



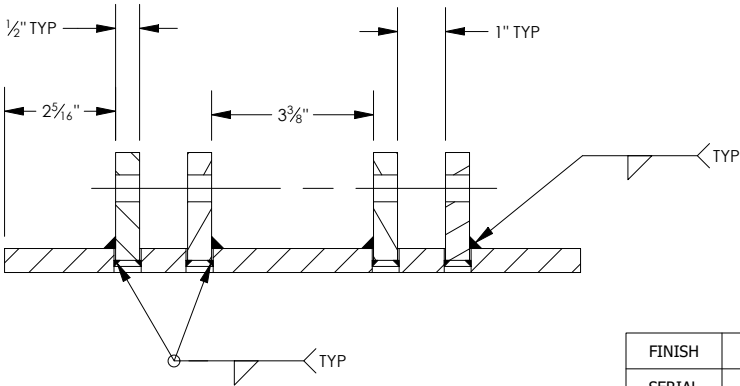
TYPICAL HINGE ASSY
(6061 T6 ALUMINUM)

FINISH	SEE WO	CONTRACT	A-921-3		<div>FloodBreak</div> <div>REVOLUTIONARY FLOOD CONTROL</div> <div>http://floodbreak.com</div>		
SERIAL	01387	PRODUCT	ROADWAY GATE				
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		CHECKED	JB	3/14/2023			
		APPROVED	NE	3/14/2023			
		DO NOT SCALE DRAWING			SHEET SIZE		DRAWING
			SCALE		N/A		SHEET 15 OF 18

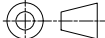
PAN ANCHOR



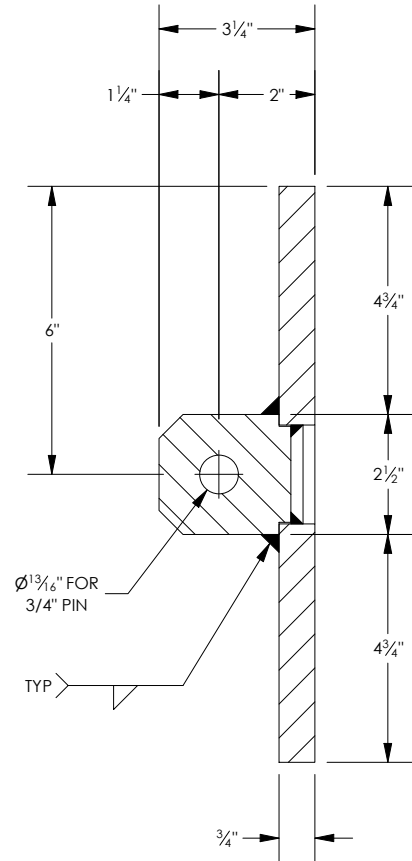
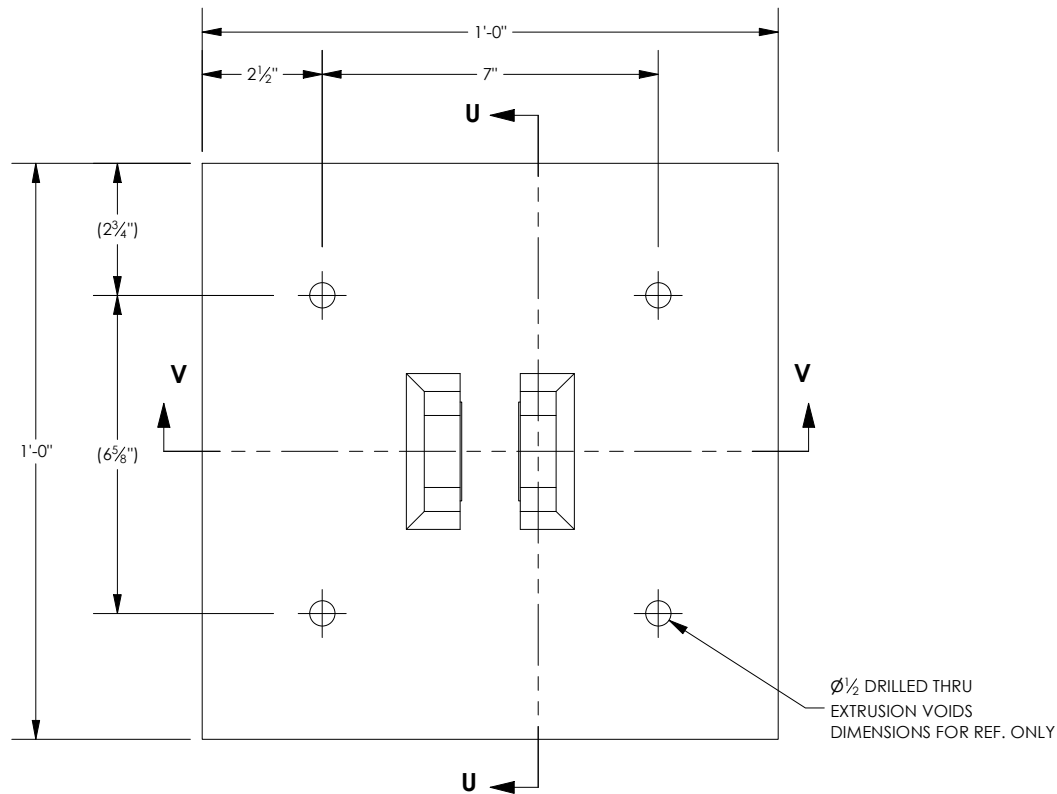
SECTION T-T



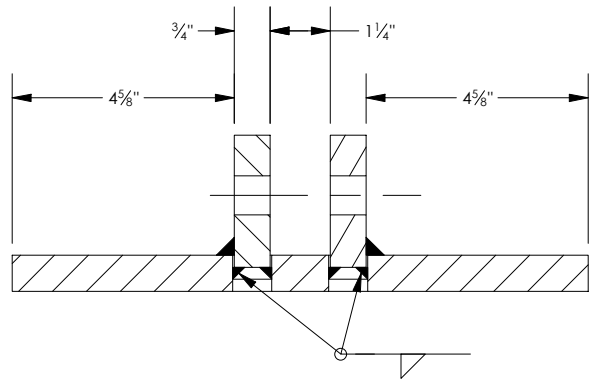
SECTION R-R

FINISH	SEE WO	CONTRACT	A-921-3		<div>FloodBreak</div> <div>REVOLUTIONARY FLOOD CONTROL</div> <div>http://floodbreak.com</div>			
SERIAL	01387	PRODUCT	ROADWAY GATE					
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		CHECKED	JB	3/14/2023				
		APPROVED	NE	3/14/2023				
DO NOT SCALE DRAWING					SHEET SIZE	DRAWING	REV	
					A	01387-RG49-00000-00	0	
					SCALE	N/A		SHEET
							16 OF 18	

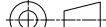
LID ANCHOR



SECTION U-U



SECTION V-V

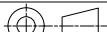
FINISH	SEE WO	CONTRACT	A-921-3		<div>FloodBreak</div> <div>REVOLUTIONARY FLOOD CONTROL</div> <div>http://floodbreak.com</div>		
SERIAL	01387	PRODUCT	ROADWAY GATE				
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		APPROVED	NE	3/14/2023			
DO NOT SCALE DRAWING				SHEET SIZE	DRAWING	REV	
				A	01387-RG49-00000-00	0	
				SCALE	N/A		SHEET
						17 OF 18	

Technical drawing showing a vertical assembly with dimensions and labels:

- Top horizontal dimension: 2"
- Top horizontal dimension: 1"
- Top circular feature: $\phi 1\frac{3}{16}"$ FOR 3/4" UPPER PIN
- Label: LID SIDE
- Vertical dimension (left): $2'-\frac{3}{8}"$
- Vertical dimension (left): $1'-10\frac{3}{8}"$
- Vertical dimension (right): 10"
- Bottom circular feature: $1\frac{3}{16}"$ FOR 3/4" CONNECT PIN

Technical drawing of a vertical pipe assembly. The drawing includes the following dimensions and labels:

- Top horizontal dimension: $2''$
- Top right horizontal dimension: $1\frac{1}{16}''$
- Top right horizontal dimension: $\frac{3}{4}''$
- Top right vertical dimension: $4\frac{7}{16}''$
- Top right angle: 6.3°
- Bottom right vertical dimension: $4\frac{9}{16}''$
- Left vertical dimension (total): $(2'-\frac{3}{8}'')$
- Left vertical dimension (partial): $(1'-10\frac{3}{8}'')$
- Labels:
 - $\varnothing^{13}/_{16}''$ FOR $3/4''$ CONNECT PIN
 - CONNECTION SIDE
 - $\varnothing^{9}/_{16}''$ FOR $1/2''$ LOWER PIN

FINISH		SEE WO		CONTRACT		A-921-3		<div>FloodBreak</div> <div>REVOLUTIONARY FLOOD CONTROL</div> <div>http://floodbreak.com</div>									
SERIAL		01387		PRODUCT		ROADWAY GATE											
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										DRAWN		JZ		3/14/2023			
										CHECKED		JB		3/14/2023			
										APPROVED		NE		3/14/2023			
<div>DO NOT SCALE DRAWING</div>								TITLE		Example Drawing 24'-10" L x 3'-2" H							
								SHEET SIZE		DRAWING						REV	
								A		01387-RG49-00000-00						0	
								SCALE		N/A						SHEET	
																18 OF 18	