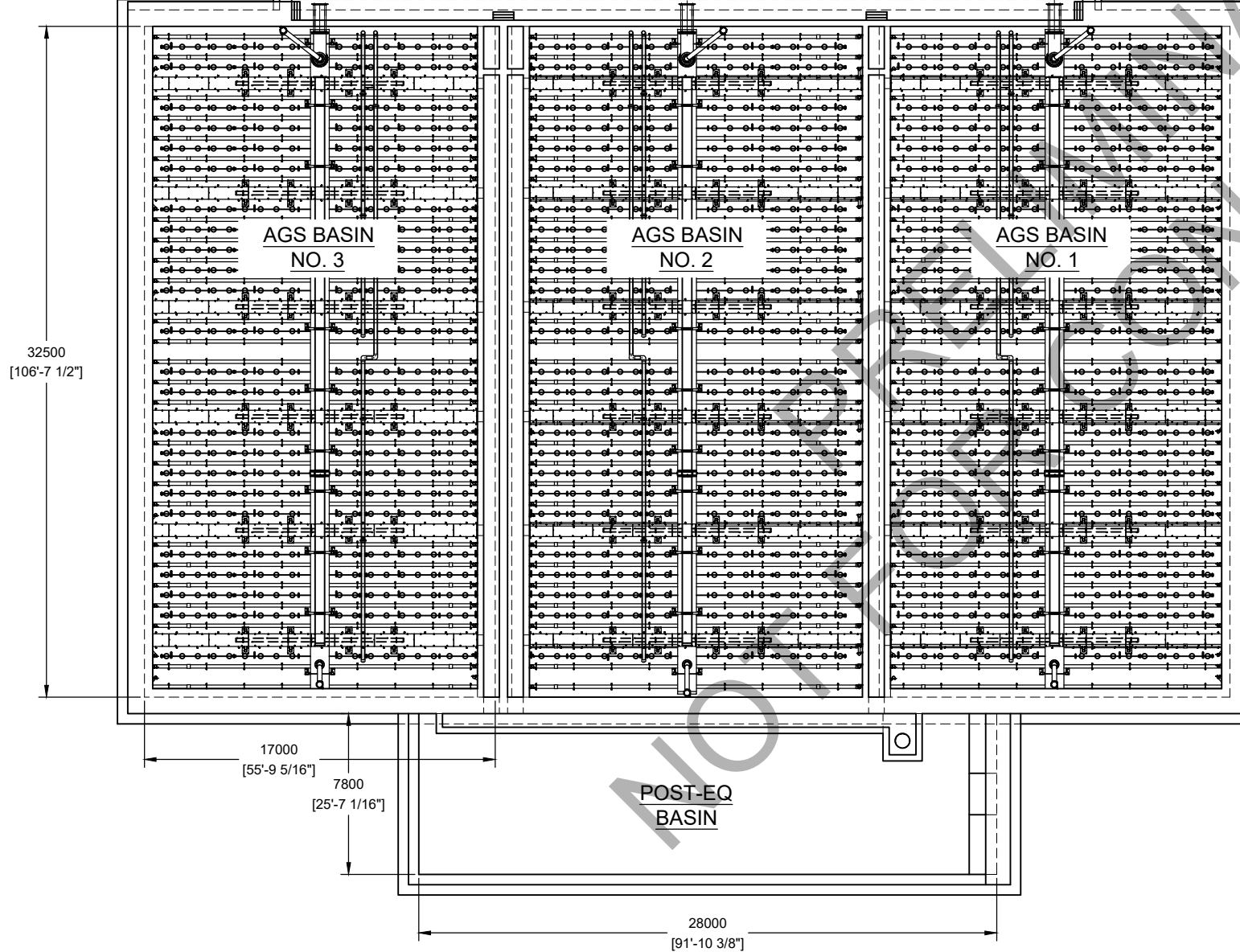


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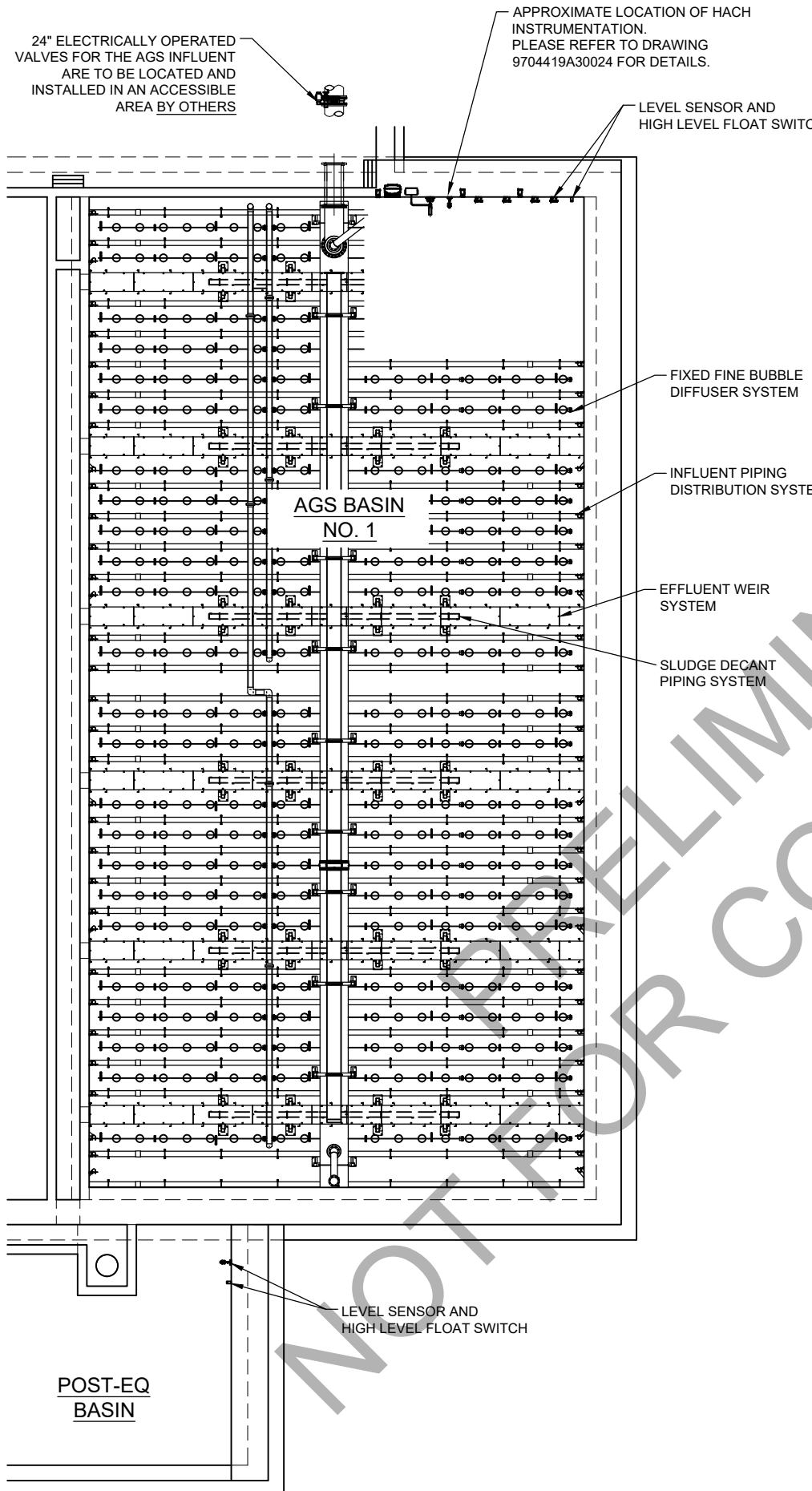
### GENERAL INSTALLATION NOTES:

- PLEASE REVIEW ALL INDIVIDUAL INSTALLATION DRAWINGS FOR ACTUAL DETAILS. REFER TO ASSEMBLY INSTRUCTIONS IN THE OPERATION AND MAINTENANCE MANUAL PRIOR TO INSTALLING THE EQUIPMENT.
- ALL THREADED FASTENERS MUST BE SECURED WITH A FULL NUT AND A JAM NUT.
- ANTI-SEIZE LUBRICANT IS REQUIRED ON ALL STAINLESS STEEL FASTENERS UNLESS OTHERWISE SPECIFIED.
- ALL LOCAL ELECTRICAL DISCONNECTS / JUNCTION BOXES HAVE BEEN SHOWN FOR REFERENCE ONLY AND ARE TO BE SUPPLIED AND LOCATED BY OTHERS.
- ALL INFLUENT, EFFLUENT DECANT AND SLUDGE WASTE PIPING HAS BEEN SHOWN FOR REFERENCE ONLY AND SHALL BE SUPPLIED AND INSTALLED BY OTHERS.
- ALL WALKWAYS / PLATFORMS HAVE BEEN SHOWN FOR REFERENCE ONLY AND ARE TO BE SUPPLIED AND INSTALLED BY OTHERS. MUST ALLOW ACCESS TO ALL AGS AND POST-EQ EQUIPMENT.
- VALVE AND LINE SIZES ARE TO BE VERIFIED BY THE ENGINEER BASED ON ACTUAL LINE LOSSES.
- OVERFLOWS ARE RECOMMENDED WITHIN ALL BASINS.
- IF FREEZING IS A CONCERN, ANY NECESSARY PROTECTION, INCLUDING BUT NOT LIMITED TO HEAT TRACING AND INSULATION OF PUMPS, VALVES AND PIPING AS WELL AS PROTECTION AGAINST INTERNAL TANK EQUIPMENT FREEZING SHALL BE SUPPLIED AND INSTALLED BY OTHERS.
- CONTROL PANEL, NOT SHOWN, TO BE LOCATED AND INSTALLED BY OTHERS. REFER TO CONTROL PANEL INSTALLATION DRAWING FOR DETAILS.
- THESE ITEMS ARE SUPPLIED FOR INSTALLATION OF THE ADHESIVE ANCHORS.
- THE JOB SITE O&M MANUAL CONTAINING (1) "B" SIZE SET OF INSTALLATION DRAWINGS WILL BE LOCATED INSIDE OF THE PROJECT HARDWARE BOX.

JOB NAME: NAPANEE WPCP UPGRADES		JOB LOCATION: NAPANEE, ONTARIO, CANADA		AQUA-AEROBIC SYSTEMS, INC. <small>A Waterstar Company</small>	
DO NOT SCALE DRAWING		UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES FRACTIONAL DIMENSIONS: ±0.1/8" ALL TWO PLACE DECIMALS: ±0.010" ALL THREE PLACE DECIMALS: ±0.005" ALL ANGLES: ±1.0° ANSI			
MATERIAL:		TYPE: AQUANEREDA			
SIMILAR TO:		DRAWN BY: CJC		DATE: 2024-10-08	
A		2024-10-07		CJC SUBMITTAL	
REV		ERN / ECO		DATE	
DRAWING NAME:		DRAWING NUMBER: 9704419A30000			
SYSTEM PLAN VIEW & GENERAL LIST		SCALE: 1/150		SIZE: D	

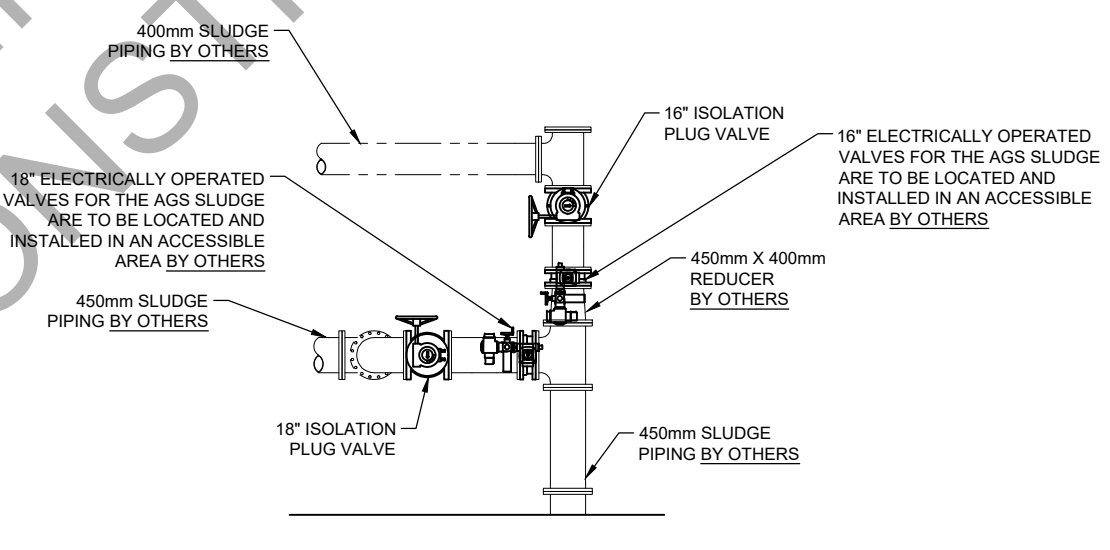
CONFIDENTIAL

8 7 6 5 4 3 2 1



**GENERAL INSTALLATION NOTES:**

1. PLEASE REVIEW ALL INDIVIDUAL INSTALLATION DRAWINGS FOR ACTUAL DETAILS. REFER TO ASSEMBLY INSTRUCTIONS IN THE OPERATION AND MAINTENANCE MANUAL PRIOR TO INSTALLING THE EQUIPMENT.
2. ALL THREADED FASTENERS MUST BE SECURED WITH A FULL NUT AND A JAM NUT.
3. ANTI-SEIZE LUBRICANT IS REQUIRED ON ALL STAINLESS STEEL FASTENERS UNLESS OTHERWISE SPECIFIED.
4. ALL LOCAL ELECTRICAL DISCONNECTS / JUNCTION BOXES HAVE BEEN SHOWN FOR REFERENCE ONLY AND ARE TO BE SUPPLIED AND LOCATED BY OTHERS.
5. ALL INFLUENT, EFFLUENT DECANT AND SLUDGE WASTE PIPING HAS BEEN SHOWN FOR REFERENCE ONLY AND SHALL BE SUPPLIED AND INSTALLED BY OTHERS.
6. ALL WALKWAYS / PLATFORMS HAVE BEEN SHOWN FOR REFERENCE ONLY AND ARE TO BE SUPPLIED AND INSTALLED BY OTHERS. MUST ALLOW ACCESS TO ALL AGS AND POST-EQ EQUIPMENT.
7. VALVE AND LINE SIZES ARE TO BE VERIFIED BY THE ENGINEER BASED ON ACTUAL LINE LOSSES.
8. OVERFLOWS ARE RECOMMENDED WITHIN ALL BASINS.
9. IF FREEZING IS A CONCERN, ANY NECESSARY PROTECTION, INCLUDING BUT NOT LIMITED TO HEAT TRACING AND INSULATION OF PUMPS, VALVES AND PIPING AS WELL AS PROTECTION AGAINST INTERNAL TANK EQUIPMENT FREEZING SHALL BE SUPPLIED AND INSTALLED BY OTHERS.
10. CONTROL PANEL, NOT SHOWN, TO BE LOCATED AND INSTALLED BY OTHERS. REFER TO CONTROL PANEL INSTALLATION DRAWING FOR DETAILS.
11. THESE ITEMS ARE SUPPLIED FOR INSTALLATION OF THE ADHESIVE ANCHORS.
12. THE JOB SITE O&M MANUAL CONTAINING (1) "B" SIZE SET OF INSTALLATION DRAWINGS WILL BE LOCATED INSIDE OF THE PROJECT HARDWARE BOX.

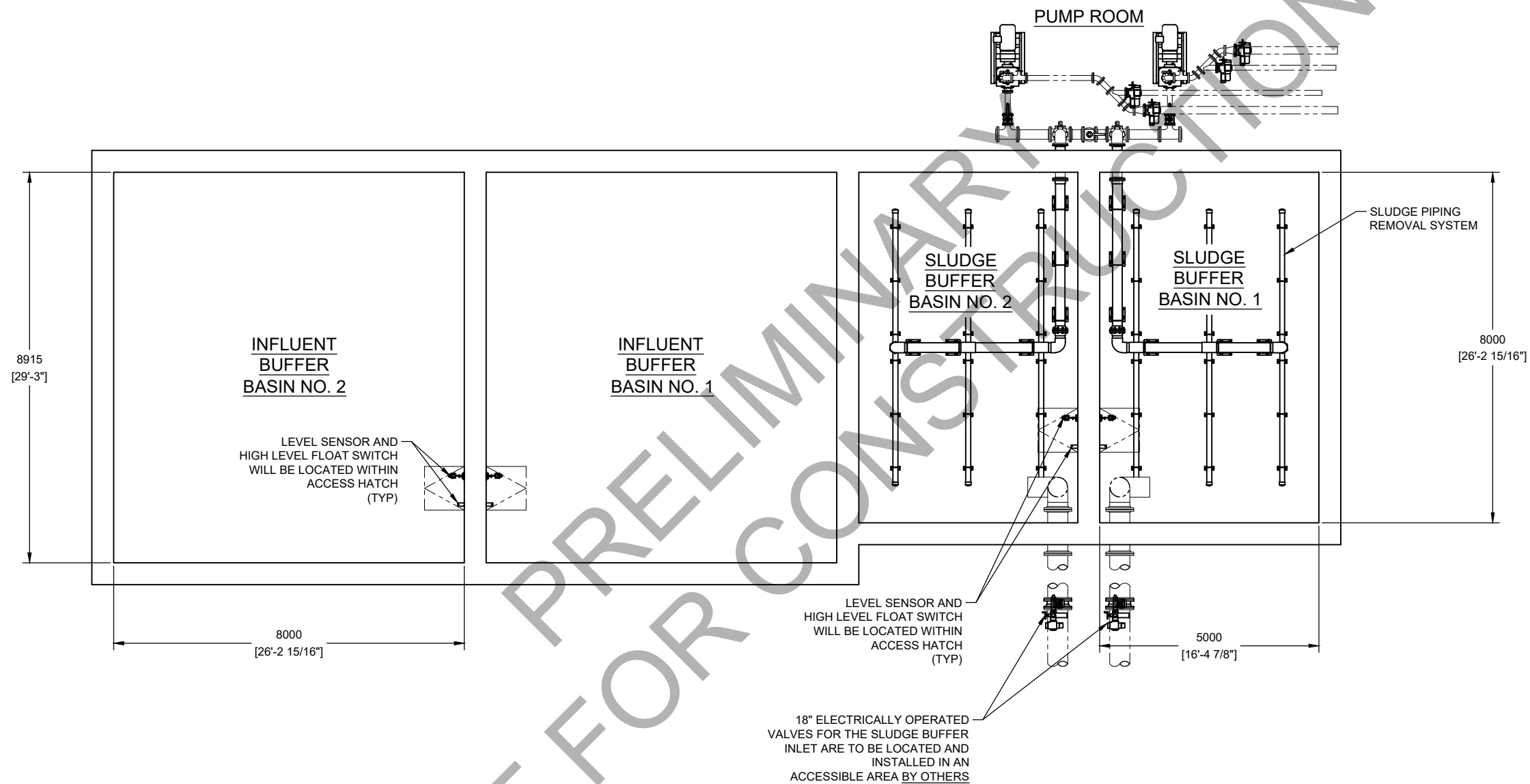
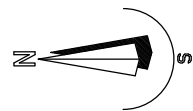


**AGS SLUDGE VALVE DETAIL**  
(TYPICAL ARRANGEMENT FOR ALL BASINS)  
SCALE: 2X

POST-EQ  
BASIN

JOB NAME: NAPANEE WPCP UPGRADES		JOB LOCATION: NAPANEE, ONTARIO, CANADA		AQUA-AEROBIC SYSTEMS, INC. <small>A Waterstar Company</small>	
DO NOT SCALE DRAWING		UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES FRACTIONAL DIMENSIONS ±0.1/16 ALL TWO PLACE DECIMALS ±0.010 ALL THREE PLACE DECIMALS ±0.005 ALL ANGLES ±1.0°			
MATERIAL:		TYPE: AQUANEREDA			
SIMILAR TO:		DRAWN BY: CJC		DATE: 2024-10-08	
A		2024-10-07		CJC SUBMITTAL	
REV		ERN / ECO		DATE	
DRAWING NAME:		DRAWING NUMBER:		SCALE: SIZE:	
SYSTEM PLAN VIEW & GENERAL LIST		9704419A30000		1/100 D	

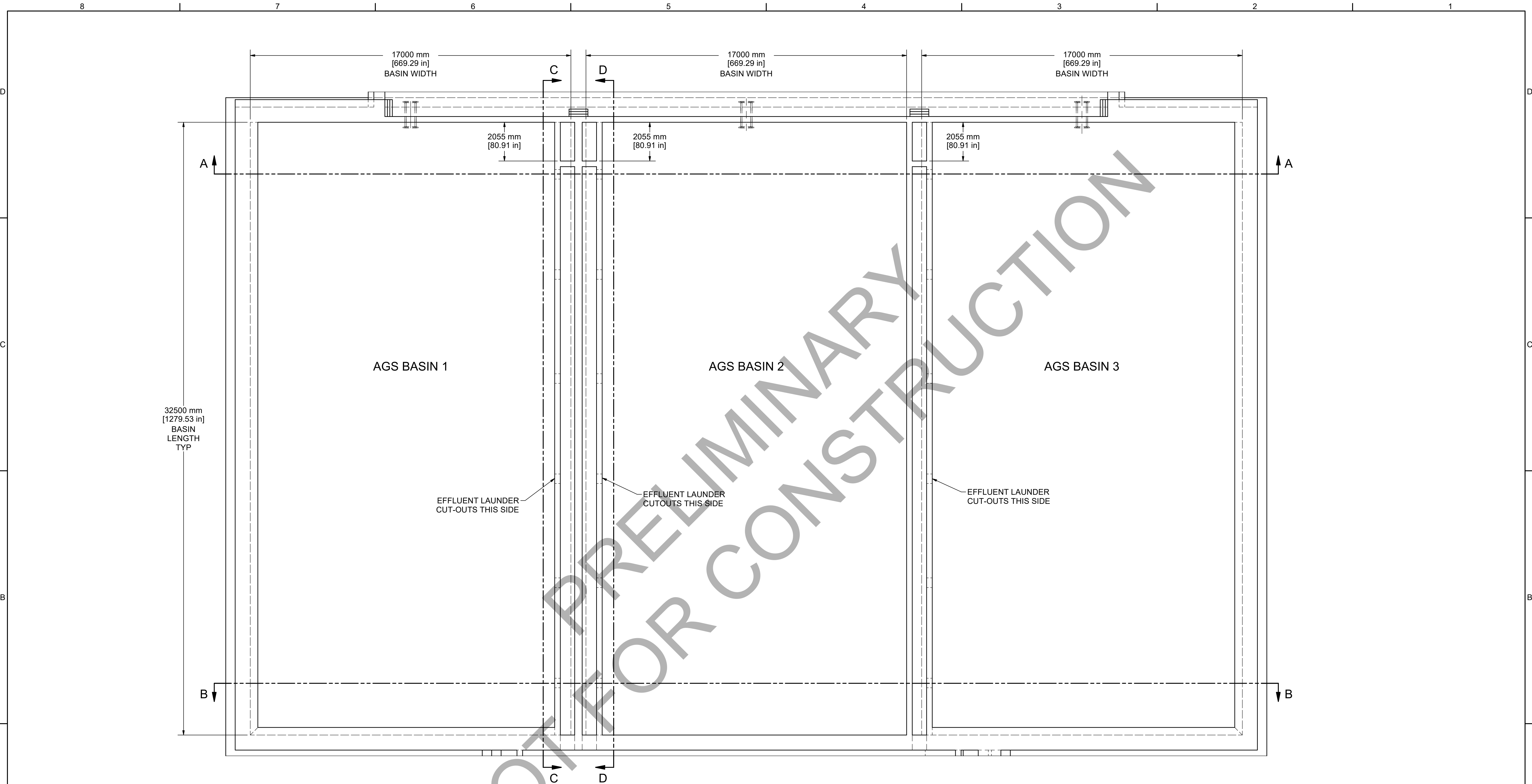
**CONFIDENTIAL**



NOT FOR PRELIMINARY CONSTRUCTION

JOB NAME: NAPANEE WPCP UPGRADES		AQUA-AEROBIC SYSTEMS, INC. <small>A Molecular Company</small>	
JOB LOCATION: NAPANEE, ONTARIO, CANADA		UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES	
DO NOT SCALE DRAWING		FRACTIONAL DIMENSIONS ±0.1/16 ALL TWO PLACE DECIMALS ±0.010 ALL THREE PLACE DECIMALS ±0.005 ALL ANGLES ±1/2° ANSI	
MATERIAL:		TYPE: AQUANEREDA	
SIMILAR TO:		DRAWN BY: CJC DATE: 2024-10-08	
A		2024-10-07 CJC SUBMITTAL	
REV	ERN / ECO	DATE	BY REVISION DESCRIPTION
DRAWING NAME: SYSTEM PLAN VIEW & GENERAL LIST		DRAWING NUMBER: 9704419A30000	
SCALE: 1/60		SHEET: 1 OF 6	

**CONFIDENTIAL**

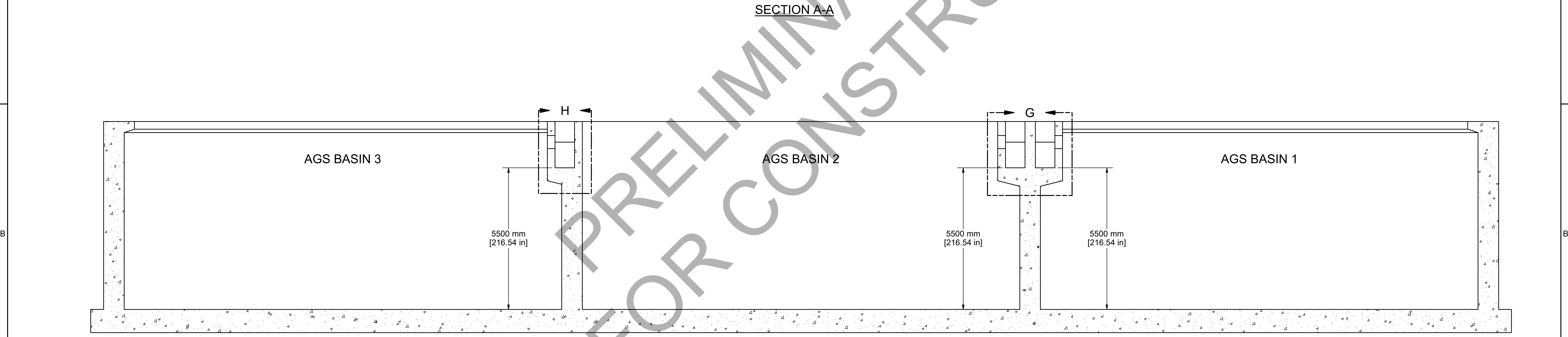
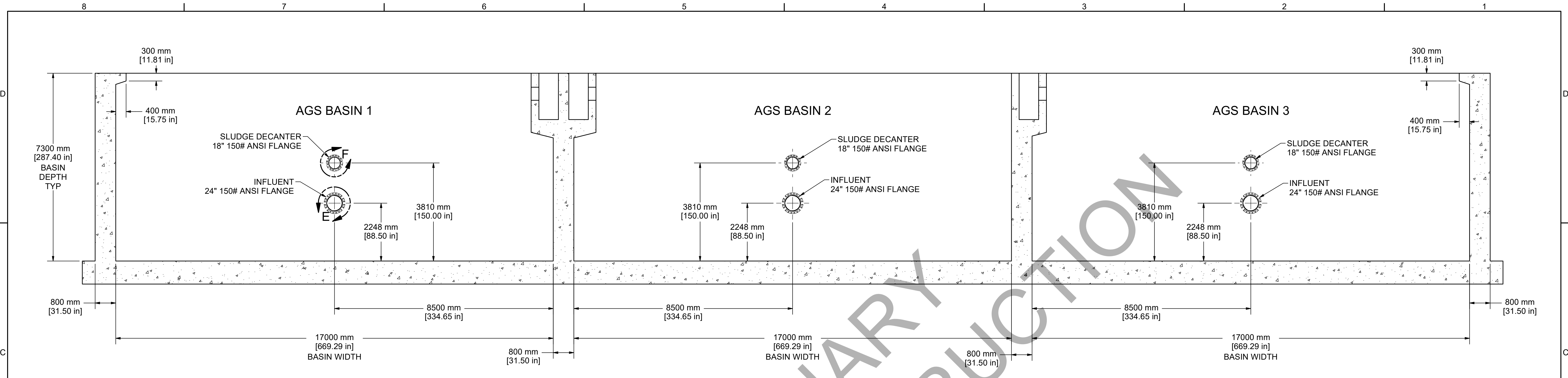


**NOTES:**

1. ALL DIMENSIONS TO BE VERIFIED BY CUSTOMER / CONTRACTOR.
2. ALL CONCRETE WORK AND PIPING SHOWN IN THE DRAWING TO BE SUPPLIED AND INSTALLED BY OTHERS.
3. WALL SPOOL PIPING SHALL BE SUPPLIED AND INSTALLED BY OTHERS.

**CONFIDENTIAL**

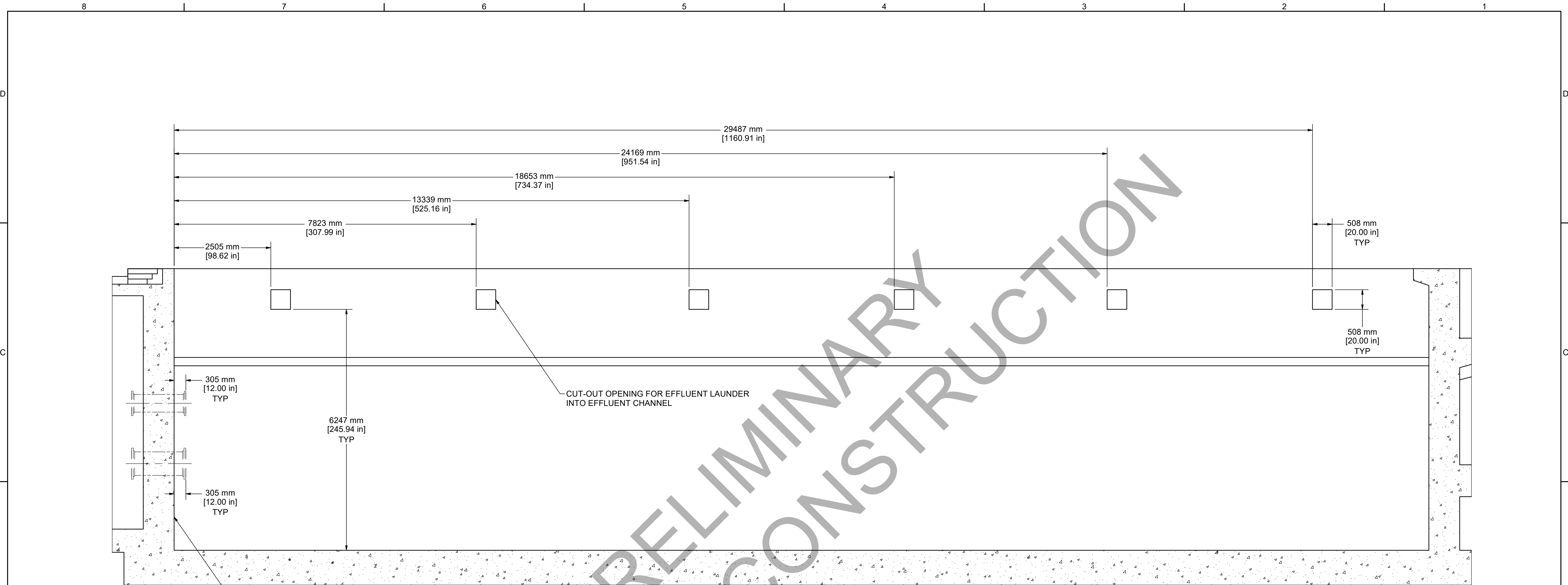
JOB NAME: NAPANEE WPCP UPGRADES				AQUA-AEROBIC SYSTEMS, INC. <small>A Metawater Company</small>			
JOB LOCATION: NAPANEE, ONTARIO, CANADA				UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES			
				DO NOT SCALE DRAWING			
				FRACTIONAL DIMENSIONS ±: 1/16 ALL TWO PLACE DECIMALS ±: 0.010 ALL THREE PLACE DECIMALS ±: 0.005 ALL ANGLES ±: 1/2°			
				ANSI			
				MATERIAL:			
				SIMILAR TO: 911689230003			
				TYPE: AQUANEREDA			
REV		DATE	BY	REVISION DESCRIPTION	DRAWN BY: JFM	DATE: 2024-10-08	
A		2024-10-08	JFM	SUBMITTAL	WEIGHT:	SHEET: 1 OF 5	
DRAWING NAME: AGS BASIN LAYOUT				DRAWING NUMBER: 9704419A30001		SCALE: 1:96	SIZE: D



NOT FOR PRELIMINARY CONSTRUCTION

CONFIDENTIAL

JOB NAME: NAPANEE WPCP UPGRADES				<b>AQUA-AEROBIC SYSTEMS, INC.</b> <small>A Metawater Company</small>	
JOB LOCATION: NAPANEE, ONTARIO, CANADA					
<small>DO NOT SCALE DRAWING</small>				<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES</small> <small>FRACTIONAL DIMENSIONS ±.1/16" (±.016)</small> <small>ALL TWO PLACE DECIMALS ±.005 (±.005)</small> <small>ALL THREE PLACE DECIMALS ±.001 (±.001)</small> <small>ALL ANGLES ±.12° (±.12°)</small>	
MATERIAL:					
SIMILAR TO: 911689230003				TYPE: AQUANEREDA	
DRAWN BY: JFM		DATE: 2024-10-08		SHEET: 2 OF 5	
REV: ERNECO		DATE: 2024-10-08		BY: JFM	
AGS BASIN LAYOUT				DRAWING NUMBER: 9704419A30001	
				SCALE: 1:72	



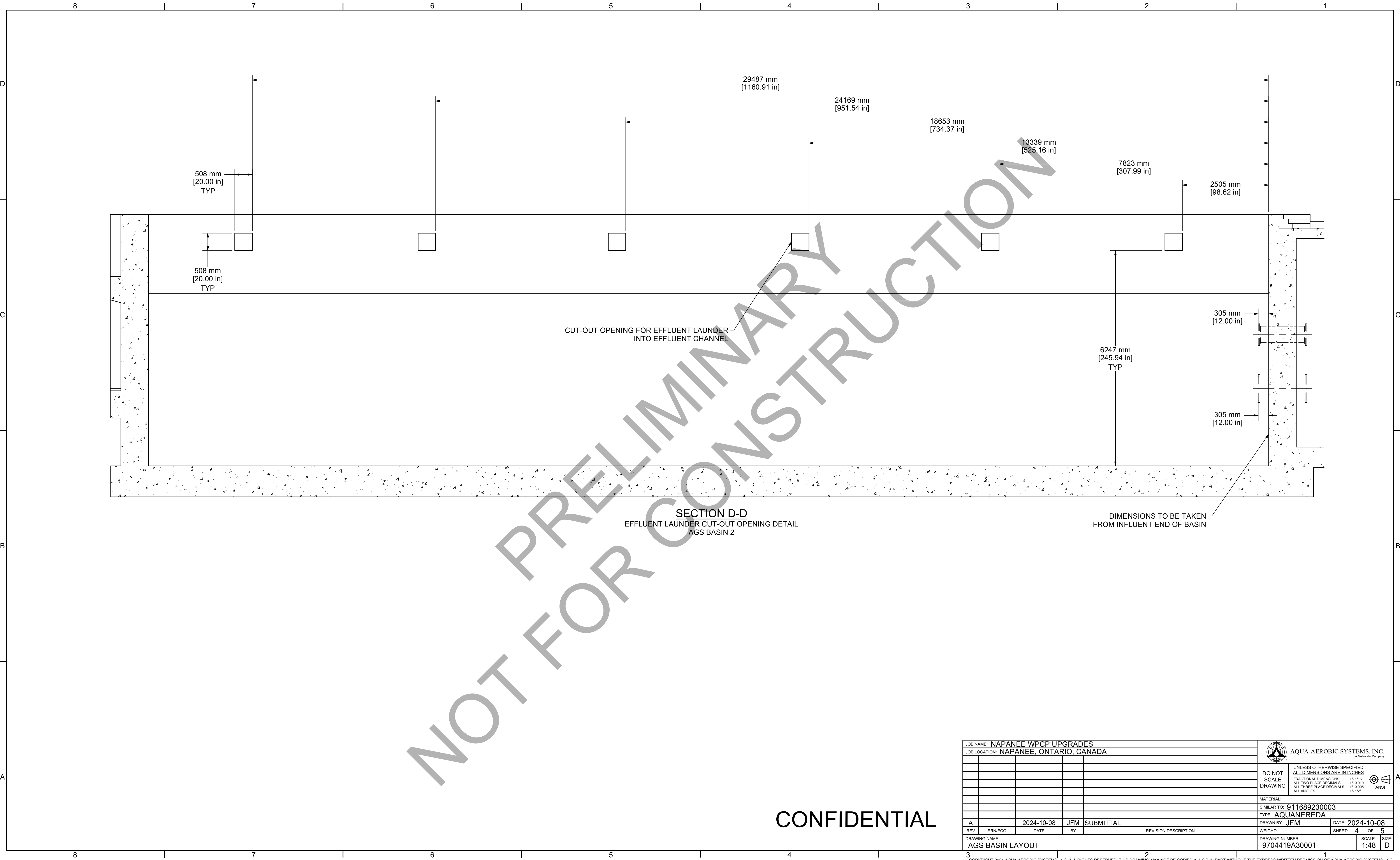
DIMENSIONS TO BE TAKEN FROM INFLUENT END OF BASIN

CUT-OUT OPENING FOR EFFLUENT LAUNDER INTO EFFLUENT CHANNEL

**SECTION C-C**  
EFFLUENT LAUNDER CUT-OUT OPENING DETAIL  
AGS BASIN 1 & 3

**CONFIDENTIAL**

JOB NAME: NAPANEE WPCP UPGRADES				AQUA-AEROBIC SYSTEMS, INC. <small>A Metawater Company</small>			
JOB LOCATION: NAPANEE, ONTARIO, CANADA				DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES FRACTIONAL DIMENSIONS ± 1/16" ALL TWO PLACE DECIMALS ± 0.010" ALL THREE PLACE DECIMALS ± 0.005" ALL ANGLES ± 1/2" ANSI			
MATERIAL:				SIMILAR TO: 911689230003			
TYPE: AQUANEREDA				DRAWN BY: JFM DATE: 2024-10-08			
REV	ERNIECO	DATE	BY	REVISION DESCRIPTION	WEIGHT:	SHEET: 3 OF 5	SCALE: 1:48 SIZE: D
DRAWING NAME: AGS BASIN LAYOUT				DRAWING NUMBER: 9704419A30001			



CUT-OUT OPENING FOR EFFLUENT LAUNDER INTO EFFLUENT CHANNEL

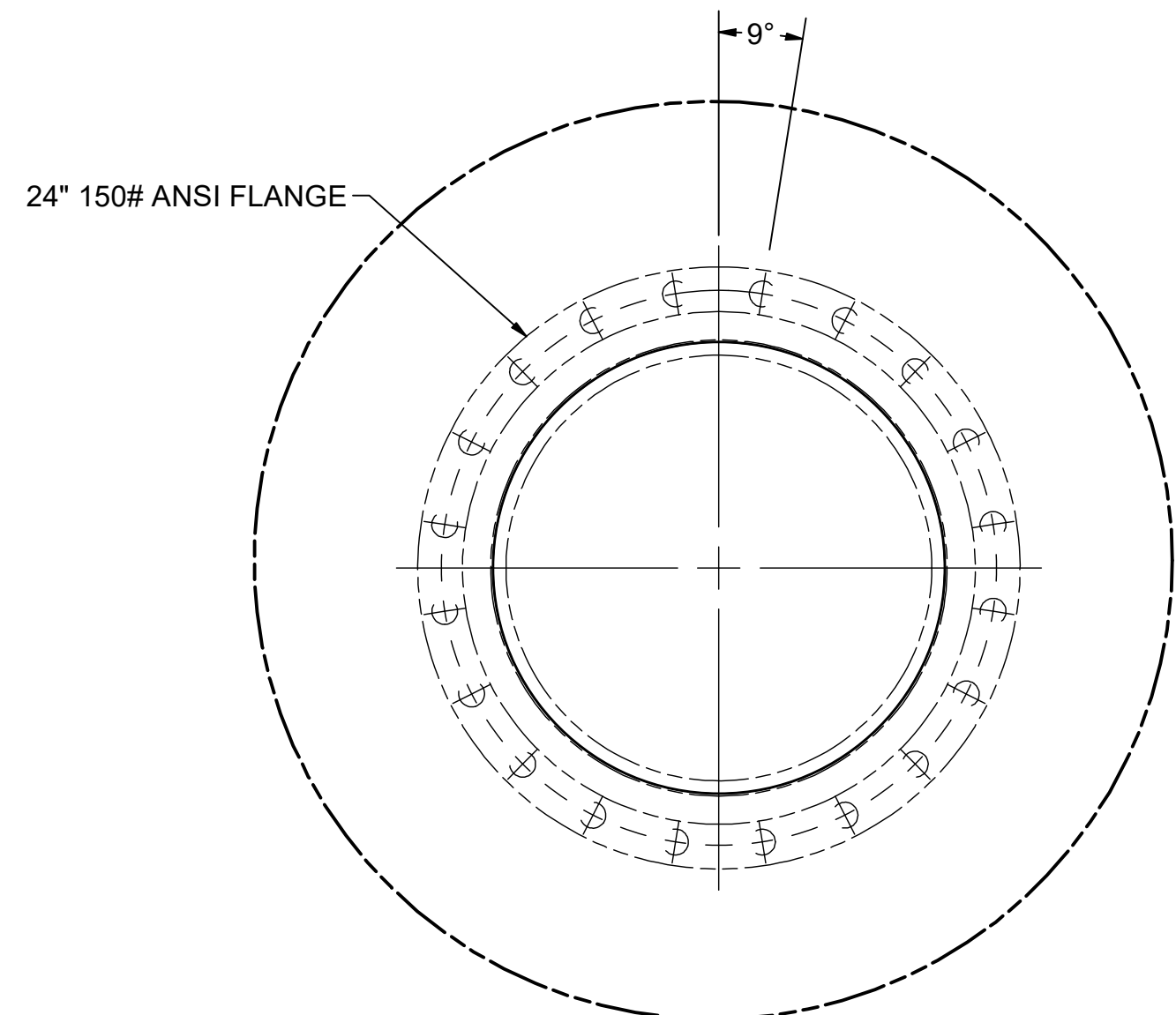
**SECTION D-D**  
EFFLUENT LAUNDER CUT-OUT OPENING DETAIL  
AGS BASIN 2

DIMENSIONS TO BE TAKEN FROM INFLUENT END OF BASIN

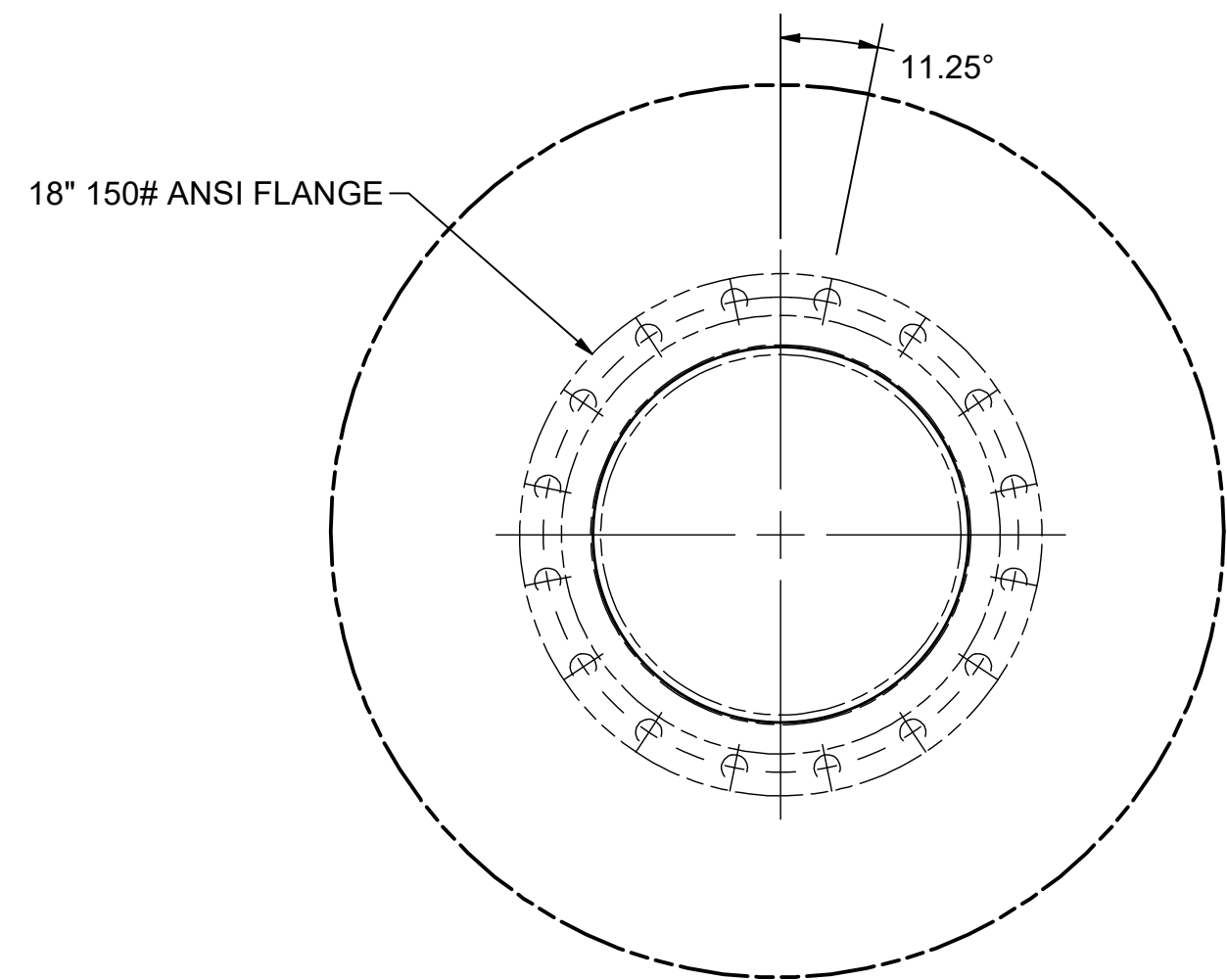
**CONFIDENTIAL**

JOB NAME: NAPANEE WPCP UPGRADES				AQUA-AEROBIC SYSTEMS, INC. <small>A Metawater Company</small>							
JOB LOCATION: NAPANEE, ONTARIO, CANADA				<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES</small> <small>FRACTIONAL DIMENSIONS ±: 1/16" ANSI</small> <small>ALL TWO PLACE DECIMALS ±: 0.010"</small> <small>ALL THREE PLACE DECIMALS ±: 0.005"</small> <small>ALL ANGLES ±: 1/2°</small>							
MATERIAL:				SIMILAR TO: 911689230003							
TYPE: AQUANEREDA				DRAWN BY: JFM DATE: 2024-10-08							
REV		ERNECO		DATE		BY		REVISION DESCRIPTION		WEIGHT: 4 OF 5	
DRAWING NAME: AGS BASIN LAYOUT				DRAWING NUMBER: 9704419A30001				SCALE: 1:48		SIZE: D	

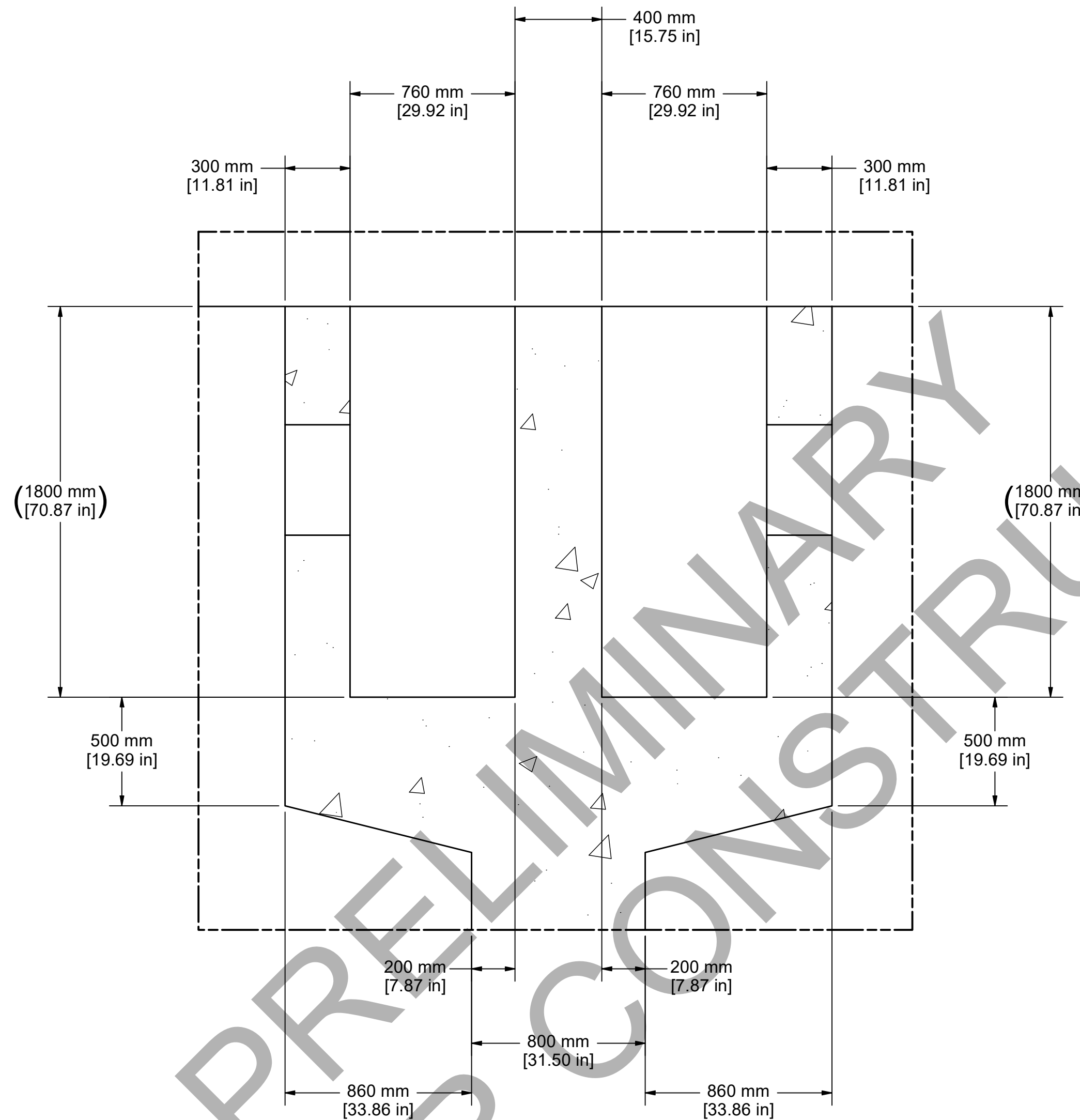
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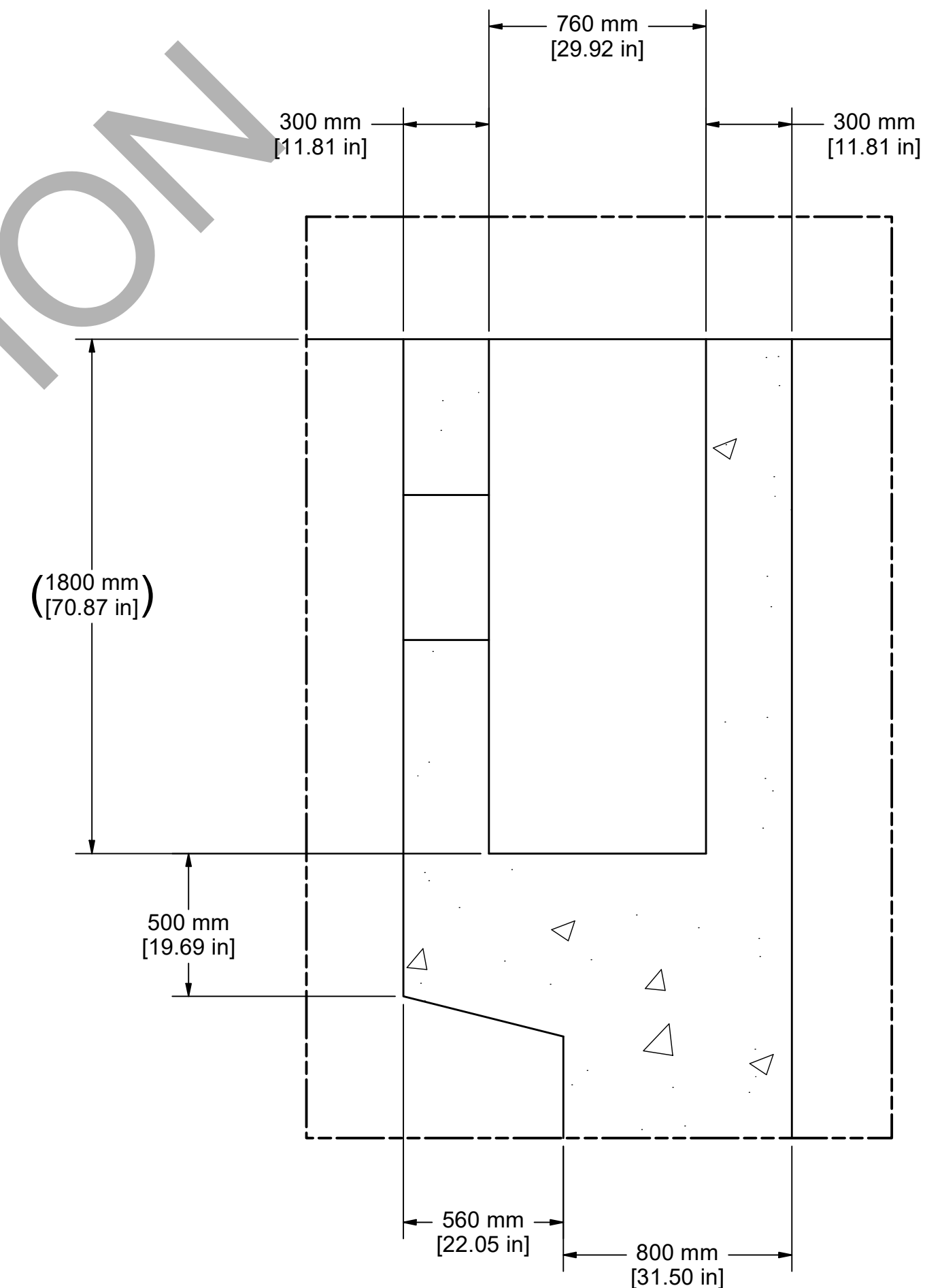
**DETAIL E**  
INFLUENT FLANGE  
TYP (3)



**DETAIL F**  
SLUDGE DECANTER FLANGE



**DETAIL G**  
EFFLUENT CHANNEL DETAIL  
AGS BASIN 1 & 2



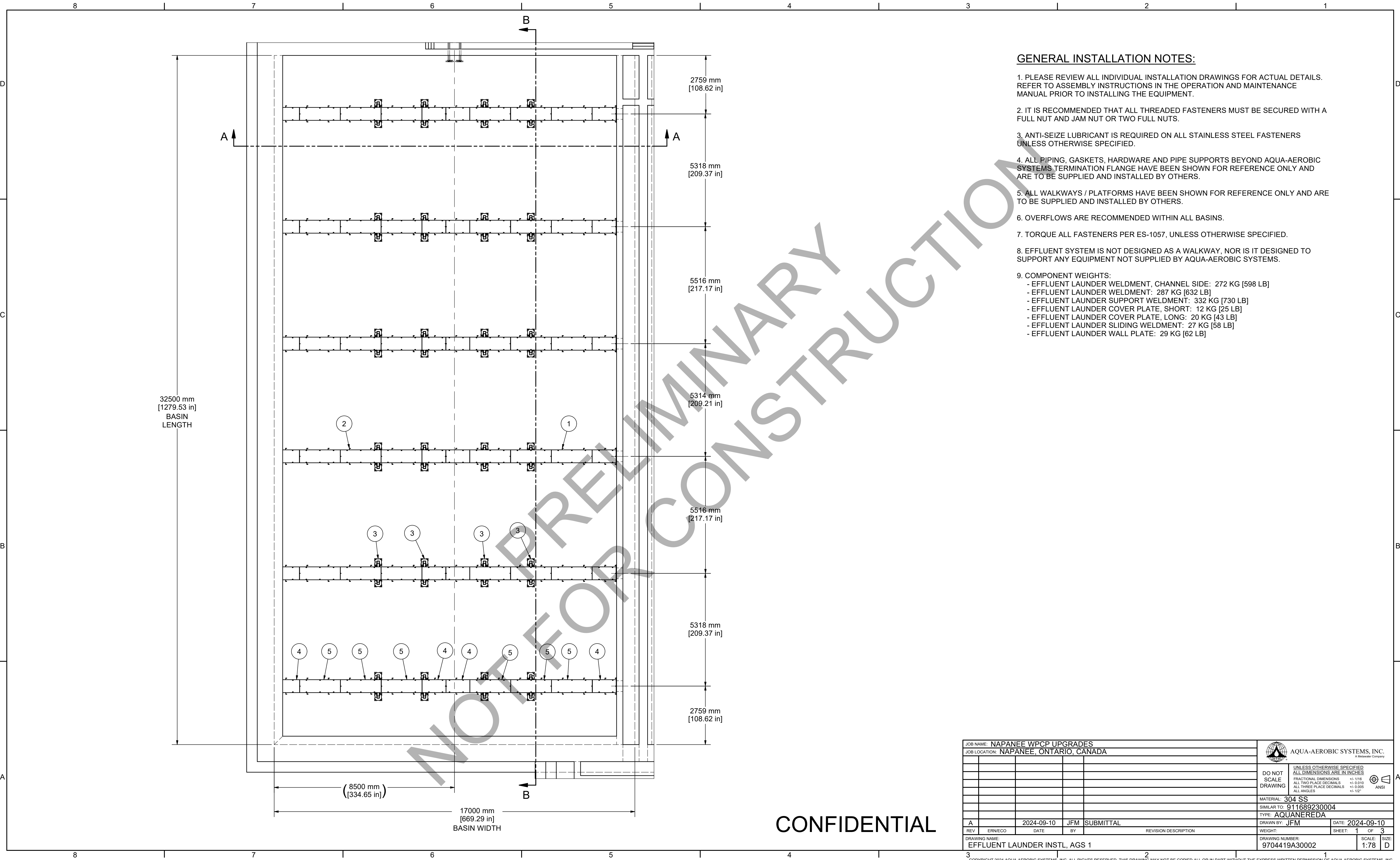
**DETAIL H**  
EFFLUENT CHANNEL DETAIL  
AGS BASIN 3

NOT FOR PRELIMINARY CONSTRUCTION

CONFIDENTIAL

JOB NAME: NAPANEE WPCP UPGRADES		<b>AQUA-AEROBIC SYSTEMS, INC.</b> <small>A Metawater Company</small>	
JOB LOCATION: NAPANEE, ONTARIO, CANADA			
DO NOT SCALE DRAWING <small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES</small> <small>FRACTIONAL DIMENSIONS ± 1/16</small> <small>ALL TWO PLACE DECIMALS ± 0.010</small> <small>ALL THREE PLACE DECIMALS ± 0.005</small> <small>ALL ANGLES ± 1/2°</small>			
MATERIAL:		SIMILAR TO: 911689230003	
TYPE: AQUANEREDA		DRAWN BY: JFM DATE: 2024-10-08	
REV	ERNECO	DATE	BY
A		2024-10-08	JFM
DRAWING NAME: AGS BASIN LAYOUT		WEIGHT: 5 OF 5	
DRAWING NUMBER: 9704419A30001		SCALE: 1:18	



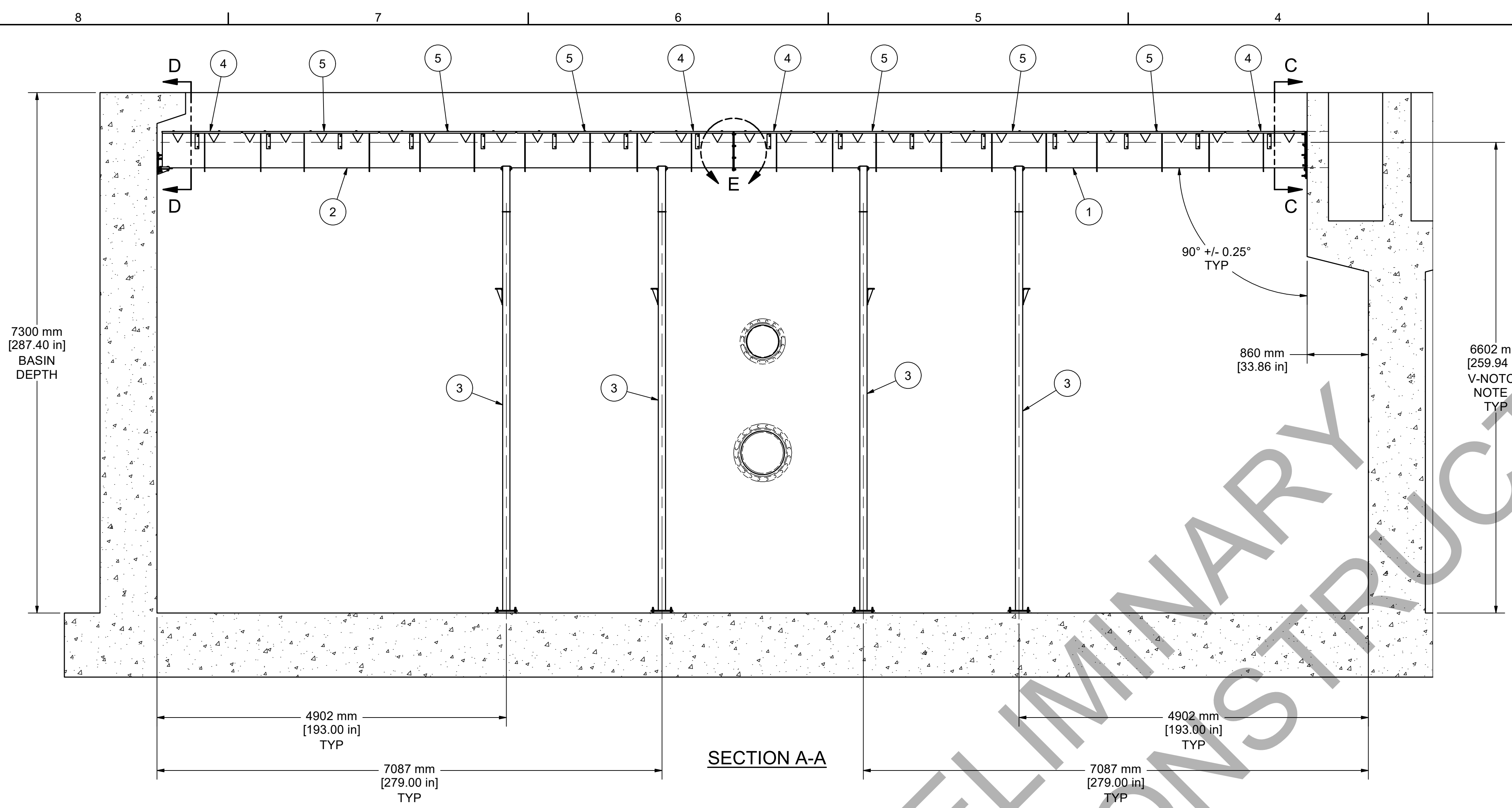


**GENERAL INSTALLATION NOTES:**

1. PLEASE REVIEW ALL INDIVIDUAL INSTALLATION DRAWINGS FOR ACTUAL DETAILS. REFER TO ASSEMBLY INSTRUCTIONS IN THE OPERATION AND MAINTENANCE MANUAL PRIOR TO INSTALLING THE EQUIPMENT.
2. IT IS RECOMMENDED THAT ALL THREADED FASTENERS MUST BE SECURED WITH A FULL NUT AND JAM NUT OR TWO FULL NUTS.
3. ANTI-SEIZE LUBRICANT IS REQUIRED ON ALL STAINLESS STEEL FASTENERS UNLESS OTHERWISE SPECIFIED.
4. ALL PIPING, GASKETS, HARDWARE AND PIPE SUPPORTS BEYOND AQUA-AEROBIC SYSTEMS TERMINATION FLANGE HAVE BEEN SHOWN FOR REFERENCE ONLY AND ARE TO BE SUPPLIED AND INSTALLED BY OTHERS.
5. ALL WALKWAYS / PLATFORMS HAVE BEEN SHOWN FOR REFERENCE ONLY AND ARE TO BE SUPPLIED AND INSTALLED BY OTHERS.
6. OVERFLOWS ARE RECOMMENDED WITHIN ALL BASINS.
7. TORQUE ALL FASTENERS PER ES-1057, UNLESS OTHERWISE SPECIFIED.
8. EFFLUENT SYSTEM IS NOT DESIGNED AS A WALKWAY, NOR IS IT DESIGNED TO SUPPORT ANY EQUIPMENT NOT SUPPLIED BY AQUA-AEROBIC SYSTEMS.
9. COMPONENT WEIGHTS:
  - EFFLUENT LAUNDER WELDMENT, CHANNEL SIDE: 272 KG [598 LB]
  - EFFLUENT LAUNDER WELDMENT: 287 KG [632 LB]
  - EFFLUENT LAUNDER SUPPORT WELDMENT: 332 KG [730 LB]
  - EFFLUENT LAUNDER COVER PLATE, SHORT: 12 KG [25 LB]
  - EFFLUENT LAUNDER COVER PLATE, LONG: 20 KG [43 LB]
  - EFFLUENT LAUNDER SLIDING WELDMENT: 27 KG [58 LB]
  - EFFLUENT LAUNDER WALL PLATE: 29 KG [62 LB]

**CONFIDENTIAL**

JOB NAME: NAPANEE WPCP UPGRADES		AQUA-AEROBIC SYSTEMS, INC. <small>A Metawater Company</small>	
JOB LOCATION: NAPANEE, ONTARIO, CANADA		<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES</small> <small>FRACTIONAL DIMENSIONS ±: 1/16</small> <small>ALL TWO PLACE DECIMALS ±: 0.010</small> <small>ALL THREE PLACE DECIMALS ±: 0.005</small> <small>ALL ANGLES ±: 1/2°</small>	
MATERIAL: 304 SS		<small>DO NOT SCALE DRAWING</small>	
SIMILAR TO: 911689230004		<small>ANSI</small>	
TYPE: AQUANEREDA		<small>MATERIAL: 304 SS</small> <small>SIMILAR TO: 911689230004</small> <small>TYPE: AQUANEREDA</small>	
A	2024-09-10	JFM	SUBMITTAL
REV	ERNECO	DATE	BY
DRAWING NAME: EFFLUENT LAUNDER INSTL, AGS 1		DRAWING NUMBER: 9704419A30002	
SCALE: 1:78		SHEET: 1 OF 3	

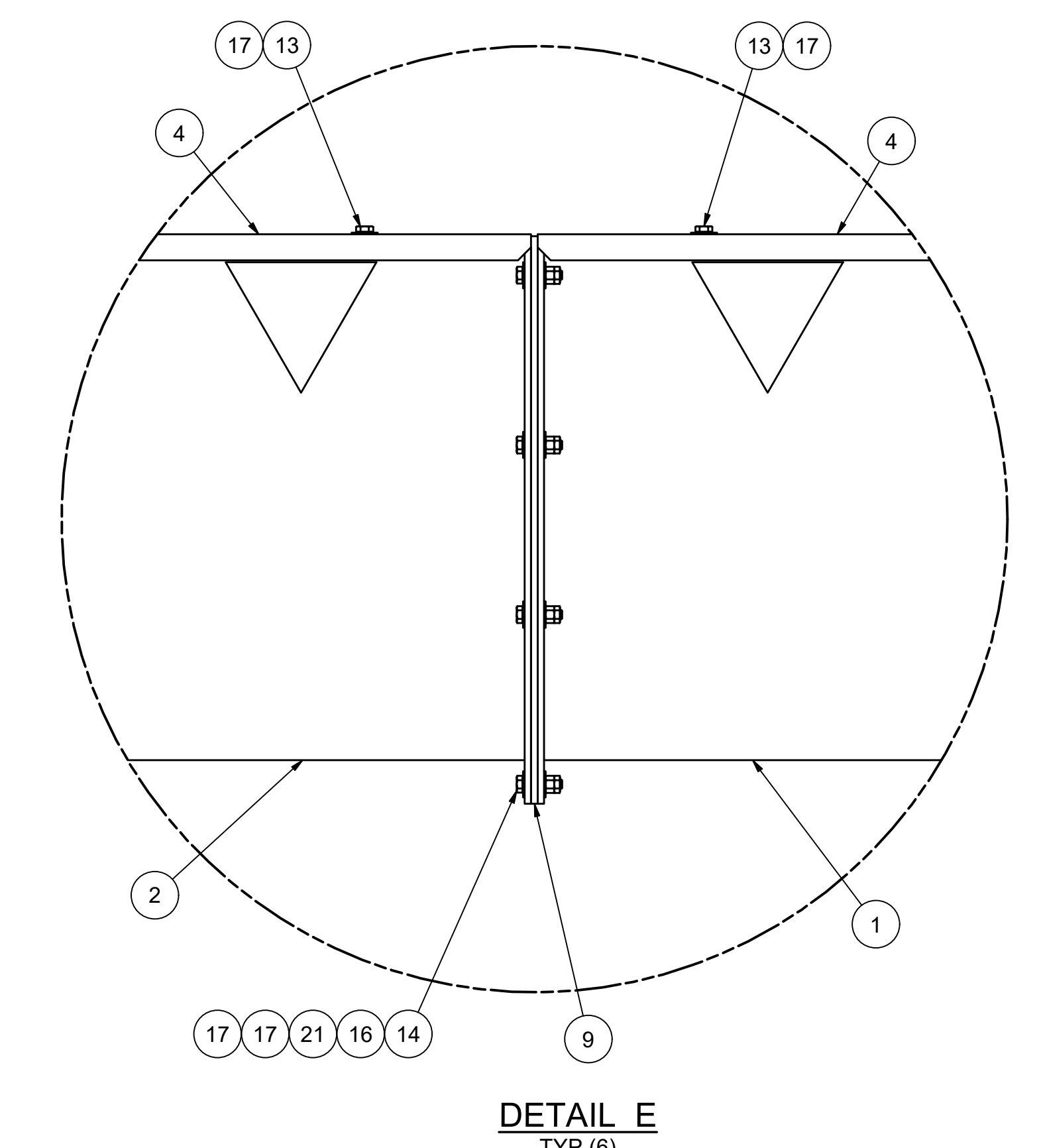
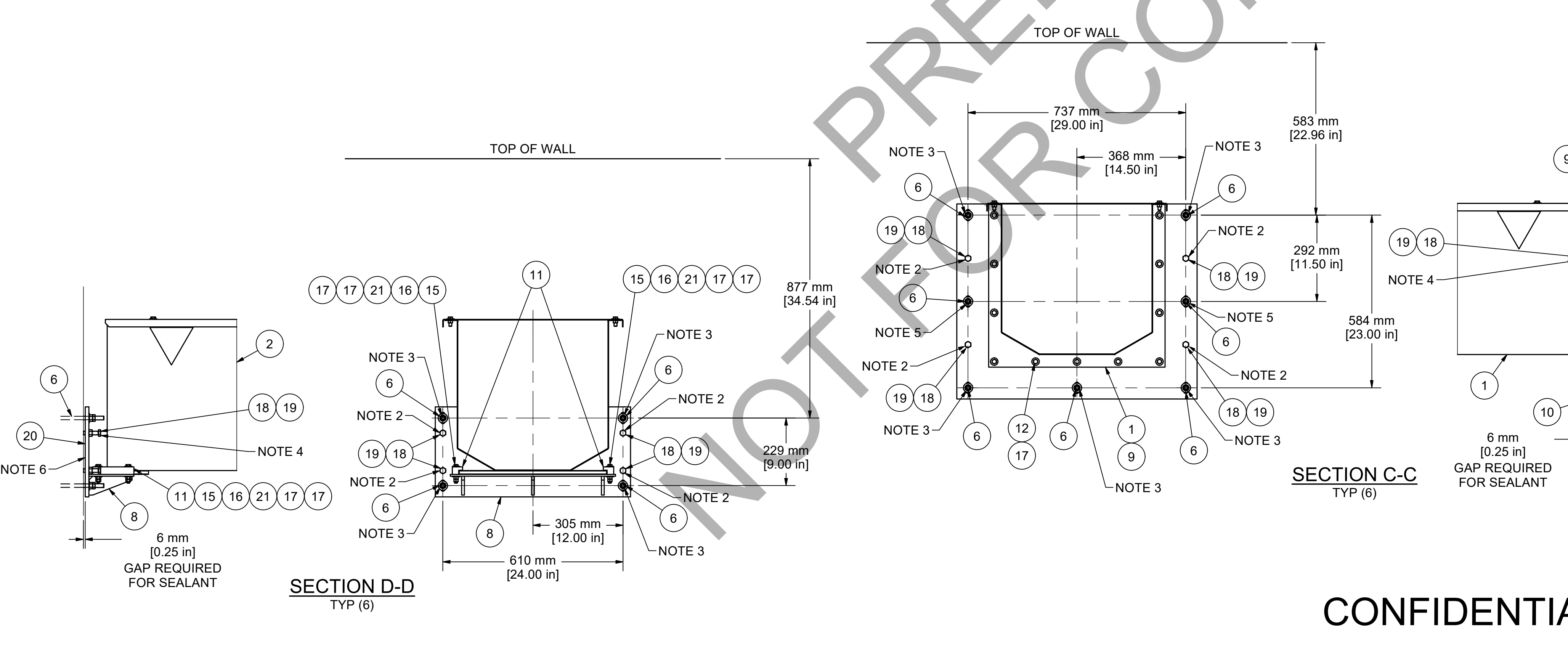


**EFFLUENT WALL PLATE INSTALLATION NOTES:**

1. ALL V-NOTCHES ARE TO BE LEVEL WITHIN +/- 3/16" ACROSS THE ENTIRE BASIN. USE A LASER GUIDED LEVEL.
2. INSTALL JACK SCREWS AND JAM NUTS IN THE (4) TAPPED HOLES. DO NOT DRILL INTO CONCRETE.
3. USE WALL PLATE AS A TEMPLATE. LOCATE THE WALL PLATE ON THE EFFLUENT END WALL PER DIMENSIONS SHOWN. MARK, DRILL AND INSTALL EVERY OTHER ANCHOR.
4. USE JACK SCREWS TO PLUMB AND SQUARE THE WALL PLATE BY USING A CARPENTERS SQUARE. EFFLUENT WALL PLATE TO BE PLUMB AND SQUARE ± 0.25°. WHEN PLUMB AND SQUARE, TIGHTEN NUTS ON THE JACK SCREWS.
5. DRILL THE REMAINING HOLES AND INSTALL THE REMAINING ANCHORS.
6. LOOSEN ANCHORS ENOUGH TO APPLY SEALANT BEHIND THE WALL PLATE AND AROUND THE EFFLUENT WALL PORT. DO NOT LOOSEN JACK SCREWS.
7. TIGHTEN DOWN ALL ANCHORS. RE-VERIFY PLUMB AND SQUARE, THEN RE-CAULK SIDES OF THE PLATE FILLING UP ALL GAPS IN CONCRETE.

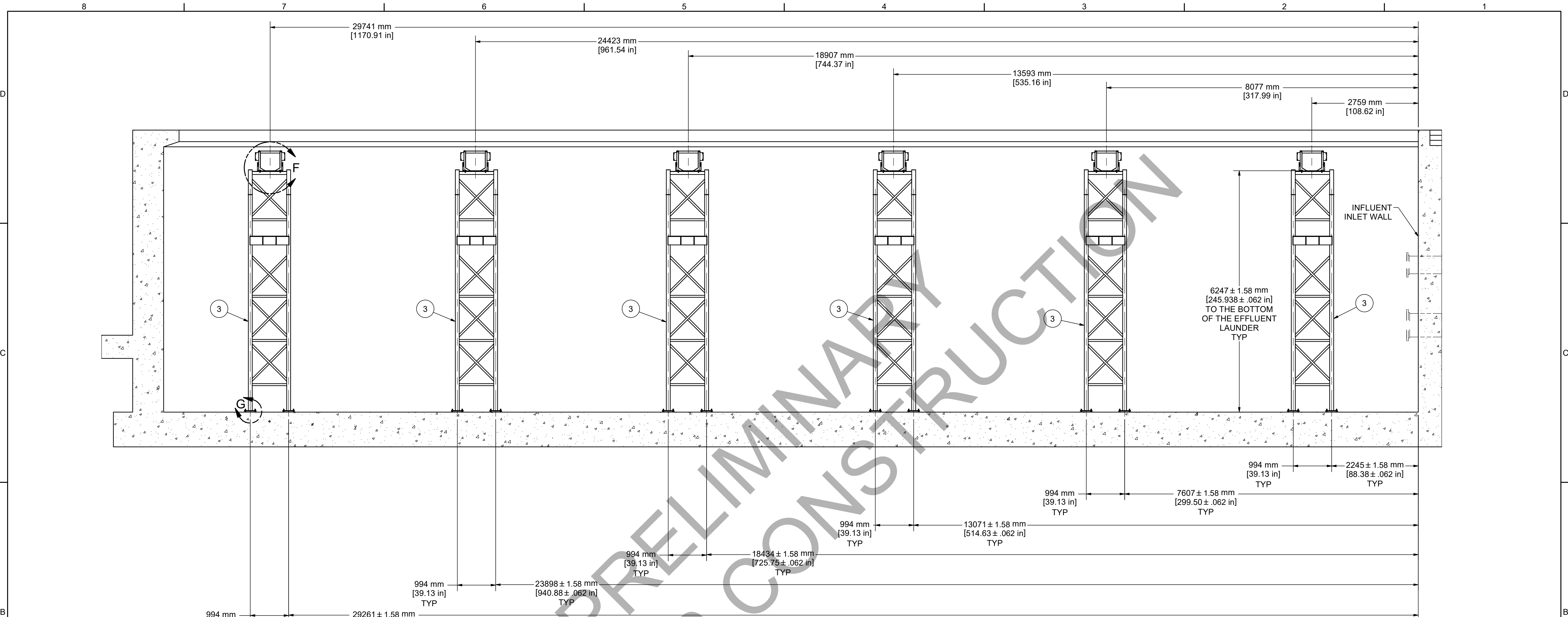
**INSTALLATION NOTES:**

8. VERTICAL SUPPORT BASE PLATES TO BE USED AS A TEMPLATE TO MARK AND DRILL FOR ADHESIVE ANCHORS.
9. REFER TO ADHESIVE ANCHOR DRAWING AND O&M MANUAL FOR PROPER INSTALLATION.
10. FOR ALL EFFLUENT LAUNDER SLIDE BARS: SPIN FULL NUT UNTIL SLIDE BAR IS SNUG AND THEN TORQUE TO 41 ft-lb. LOCK WITH SECOND FULL NUT AGAINST FIRST FULL NUT PER TORQUE SPECIFIED IN ES-1057.

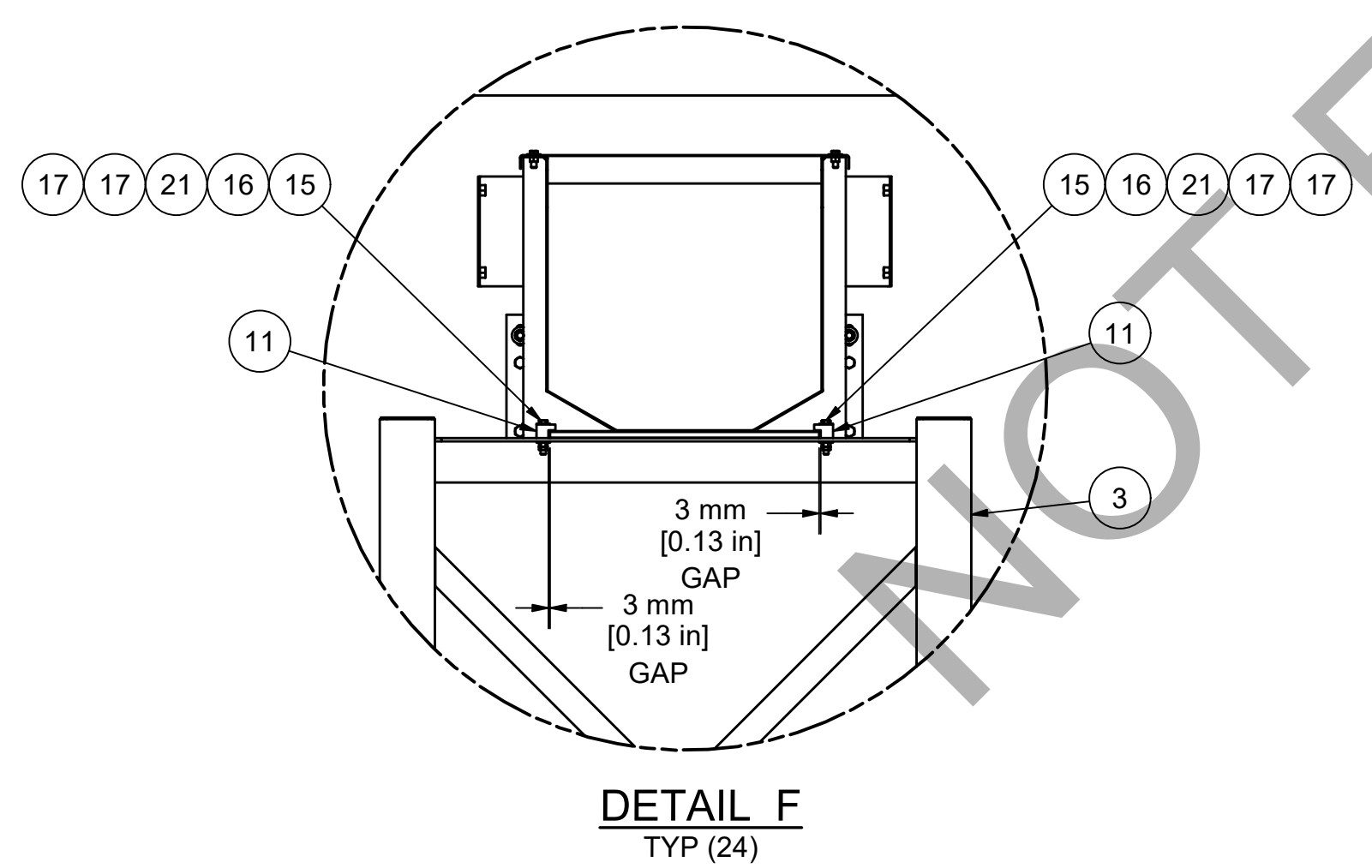


**CONFIDENTIAL**

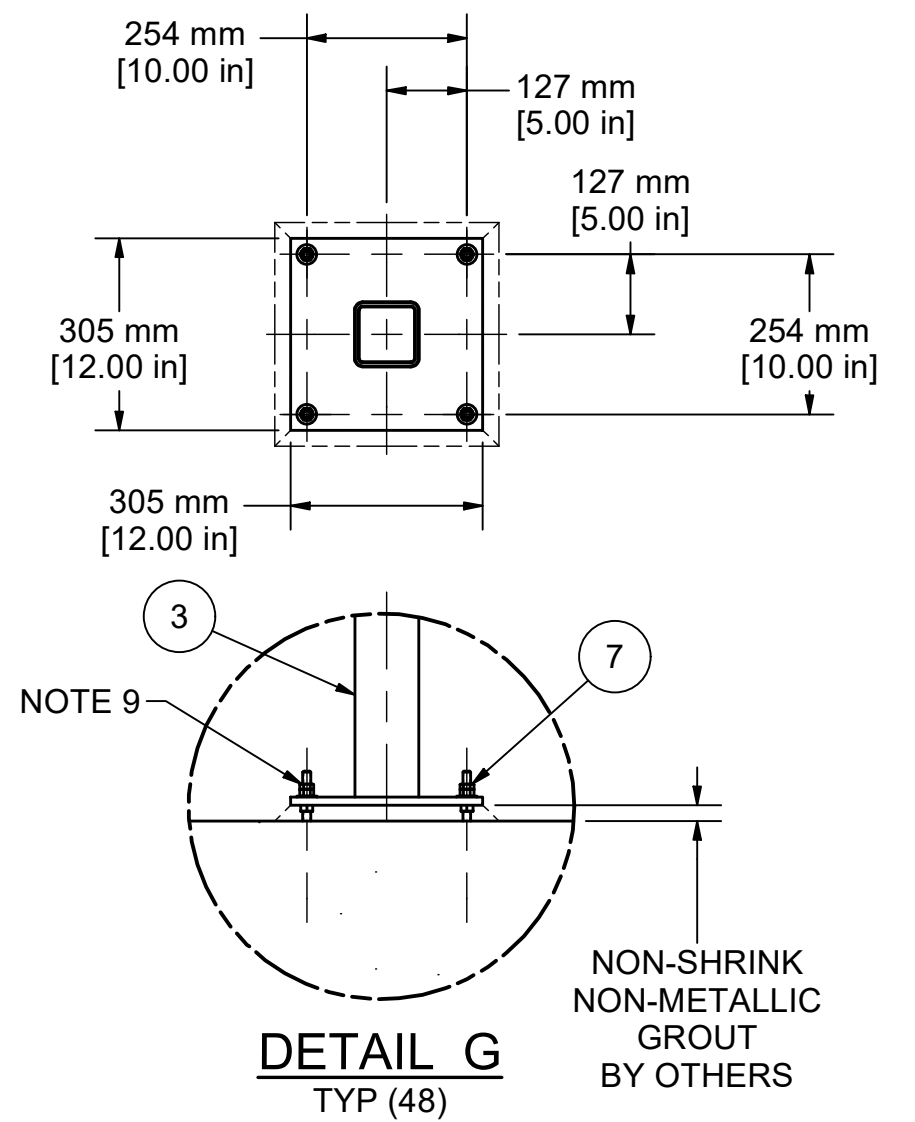
JOB NAME: NAPANEE WPCP UPGRADES		AQUA-AEROBIC SYSTEMS, INC. A Mettler Company	
JOB LOCATION: NAPANEE, ONTARIO, CANADA		UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES	
		DO NOT SCALE DRAWING	
		FRACTIONAL DIMENSIONS: ± 1/16"	
		ALL TWO PLACE DECIMALS: ± 0.010"	
		ALL THREE PLACE DECIMALS: ± 0.005"	
		ALL ANGLES: ± 1/2°	
		ANSI	
MATERIAL: 304 SS		DRAWN BY: JFM	
SIMILAR TO: 911689230004		DATE: 2024-09-10	
TYPE: AQUANEREDA		WEIGHT: 2 OF 3	
REV	DATE	BY	REVISION DESCRIPTION
A	2024-09-10	JFM	SUBMITTAL
DRAWING NAME: EFFLUENT LAUNDER INSTL, AGS 1		DRAWING NUMBER: 9704419A30002	
		SCALE: 1:39	



SECTION B-B



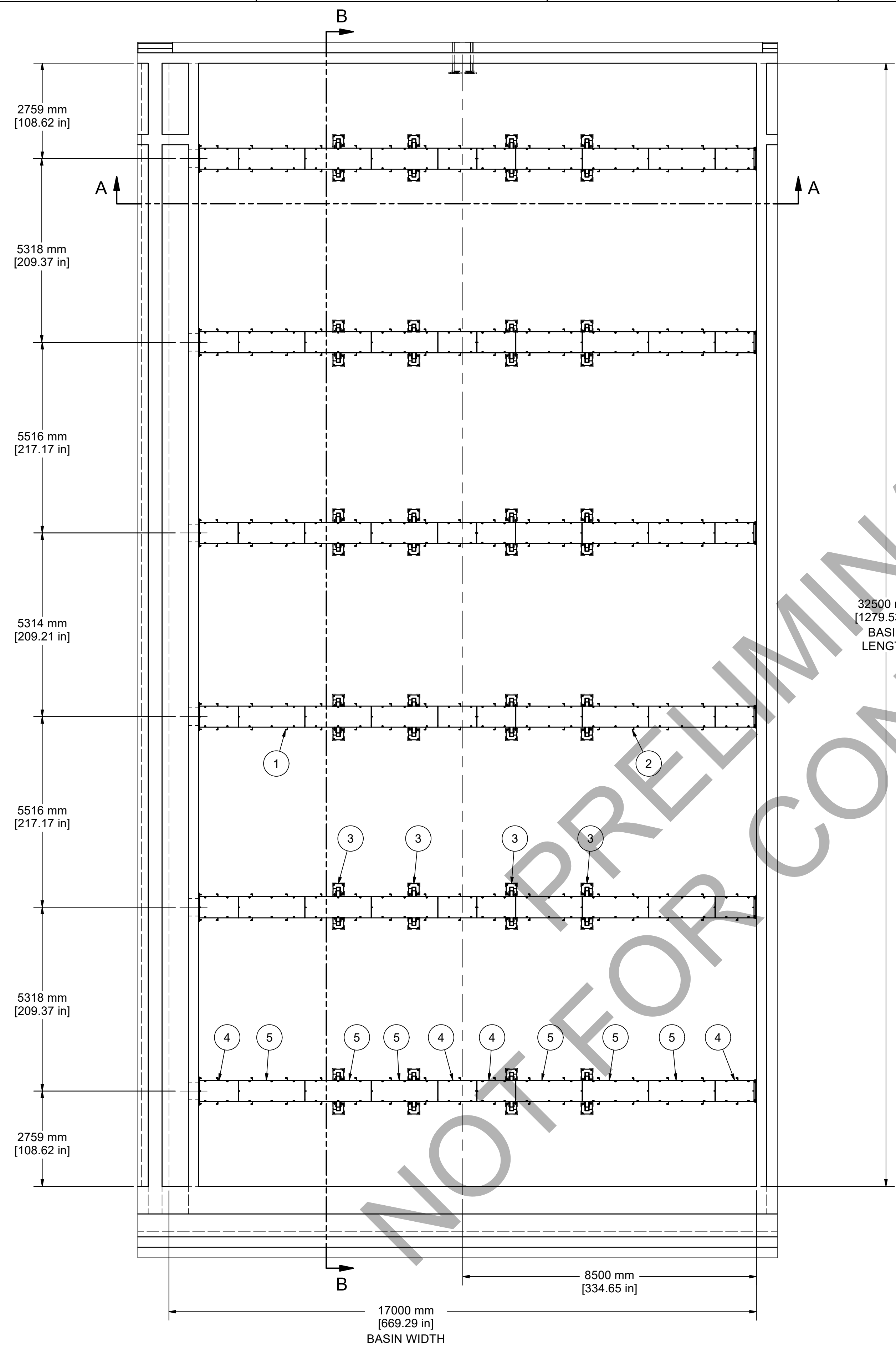
DETAIL F  
TYP (24)



DETAIL G  
TYP (48)

**CONFIDENTIAL**

JOB NAME: NAPANEE WPCP UPGRADES		AQUA-AEROBIC SYSTEMS, INC. <small>A Metawater Company</small>	
JOB LOCATION: NAPANEE, ONTARIO, CANADA		UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES	
		DO NOT SCALE DRAWING	
		FRACTIONAL DIMENSIONS ±.1/16 ALL TWO PLACE DECIMALS ±.010 ALL THREE PLACE DECIMALS ±.005 ALL ANGLES ±.12°	
		ANSI	
		MATERIAL: 304 SS	
		SIMILAR TO: 911689230004	
		TYPE: AQUANEREDA	
A	2024-09-10	JFM	DATE: 2024-09-10
REV	ERNECO	DATE	BY
		REVISION DESCRIPTION	
		DRAWN BY: JFM	
		WEIGHT: 3 OF 3	
		DRAWING NUMBER: 9704419A30002	
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		SIZE: D	



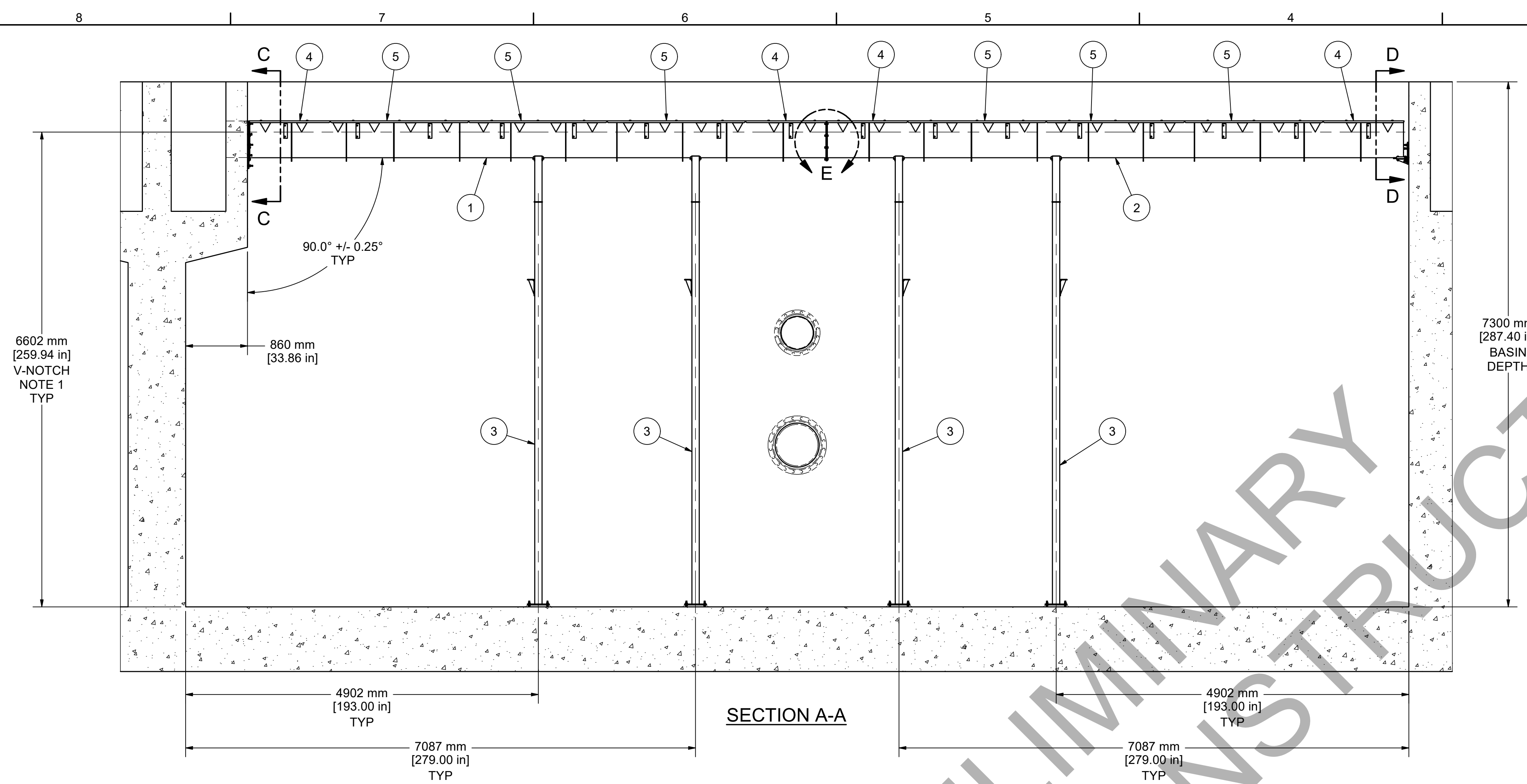
**GENERAL INSTALLATION NOTES:**

1. PLEASE REVIEW ALL INDIVIDUAL INSTALLATION DRAWINGS FOR ACTUAL DETAILS. REFER TO ASSEMBLY INSTRUCTIONS IN THE OPERATION AND MAINTENANCE MANUAL PRIOR TO INSTALLING THE EQUIPMENT.
2. IT IS RECOMMENDED THAT ALL THREADED FASTENERS MUST BE SECURED WITH A FULL NUT AND JAM NUT OR TWO FULL NUTS.
3. ANTI-SEIZE LUBRICANT IS REQUIRED ON ALL STAINLESS STEEL FASTENERS UNLESS OTHERWISE SPECIFIED.
4. ALL PIPING, GASKETS, HARDWARE AND PIPE SUPPORTS BEYOND AQUA-AEROBIC SYSTEMS TERMINATION FLANGE HAVE BEEN SHOWN FOR REFERENCE ONLY AND ARE TO BE SUPPLIED AND INSTALLED BY OTHERS.
5. ALL WALKWAYS / PLATFORMS HAVE BEEN SHOWN FOR REFERENCE ONLY AND ARE TO BE SUPPLIED AND INSTALLED BY OTHERS.
6. OVERFLOWS ARE RECOMMENDED WITHIN ALL BASINS.
7. TORQUE ALL FASTENERS PER ES-1057, UNLESS OTHERWISE SPECIFIED.
8. EFFLUENT SYSTEM IS NOT DESIGNED AS A WALKWAY, NOR IS IT DESIGNED TO SUPPORT ANY EQUIPMENT NOT SUPPLIED BY AQUA-AEROBIC SYSTEMS.
9. COMPONENT WEIGHTS:
  - EFFLUENT LAUNDER WELDMENT, CHANNEL SIDE: 272 KG [598 LB]
  - EFFLUENT LAUNDER WELDMENT: 287 KG [632 LB]
  - EFFLUENT LAUNDER SUPPORT WELDMENT: 332 KG [730 LB]
  - EFFLUENT LAUNDER COVER PLATE, SHORT: 12 KG [25 LB]
  - EFFLUENT LAUNDER COVER PLATE, LONG: 20 KG [43 LB]
  - EFFLUENT LAUNDER SLIDING WELDMENT: 27 KG [58 LB]
  - EFFLUENT LAUNDER WALL PLATE: 29 KG [62 LB]

NOT FOR PRELIMINARY CONSTRUCTION

**CONFIDENTIAL**

JOB NAME: NAPANEE WPCP UPGRADES		AQUA-AEROBIC SYSTEMS, INC. <small>A Metawater Company</small>	
JOB LOCATION: NAPANEE, ONTARIO, CANADA		<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES</small> <small>FRACTIONAL DIMENSIONS ±: 1/16</small> <small>ALL TWO PLACE DECIMALS ±: 0.010</small> <small>ALL THREE PLACE DECIMALS ±: 0.005</small> <small>ALL ANGLES ±: 1/2°</small>	
MATERIAL: 304 SS		<small>DO NOT SCALE DRAWING</small>	
SIMILAR TO: 911689230004		<small>ANSI</small>	
TYPE: AQUANEREDA		<small>DRAWN BY: JFM</small> <small>DATE: 2024-09-10</small>	
<small>REV</small>	<small>ERNECO</small>	<small>DATE</small>	<small>BY</small>
DRAWING NAME: EFFLUENT LAUNDER INSTL, AGS 2		<small>WEIGHT:</small>	<small>SHEET: 1 OF 3</small>
		<small>DRAWING NUMBER:</small>	<small>SCALE: 1:78</small>
		<small>9704419A30003</small>	<small>SIZE: D</small>



**EFFLUENT WALL PLATE INSTALLATION NOTES:**

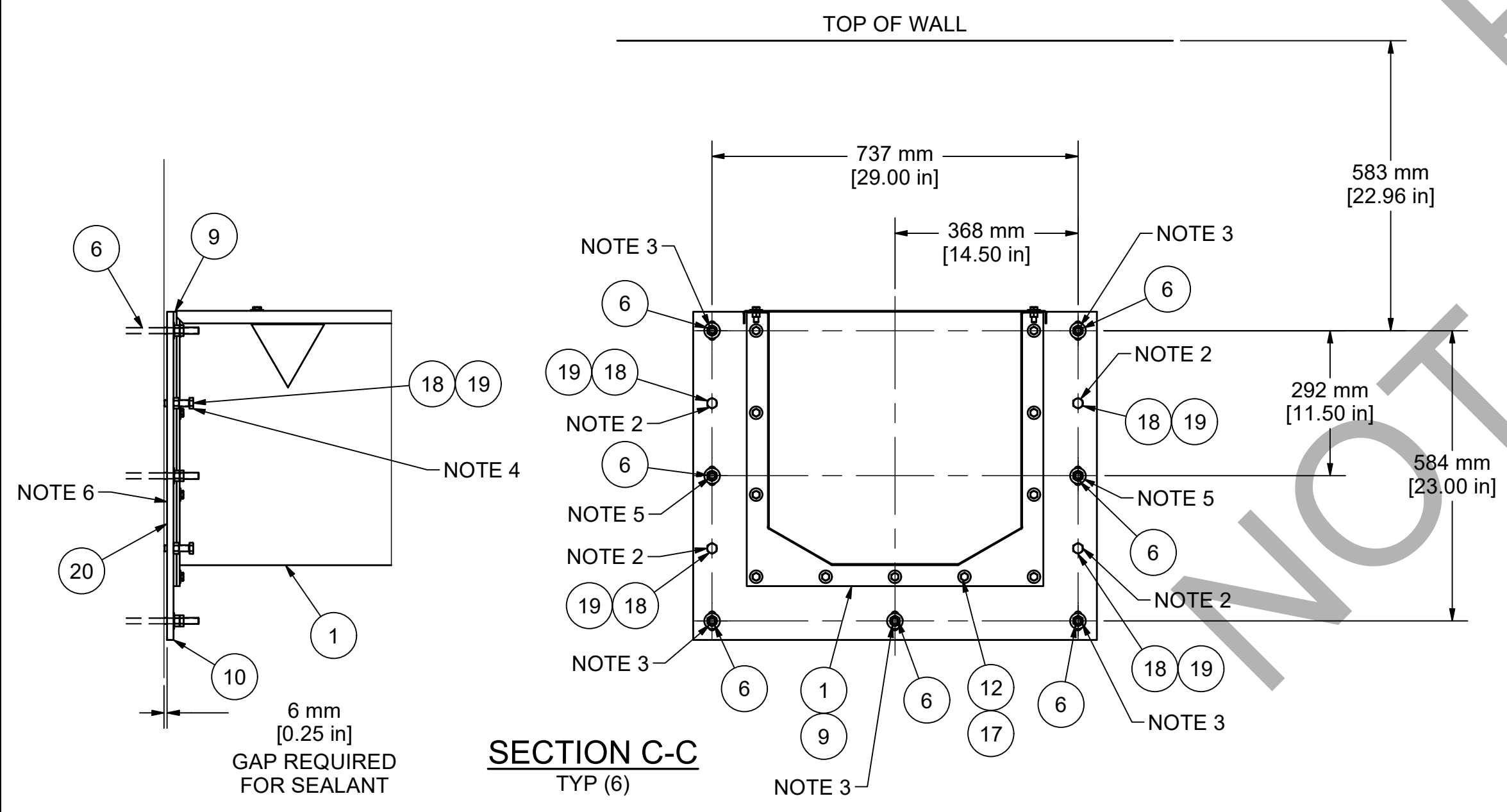
1. ALL V-NOTCHES ARE TO BE LEVEL WITHIN +/- 3/16" ACROSS THE ENTIRE BASIN. USE A LASER GUIDED LEVEL.
2. INSTALL JACK SCREWS AND JAM NUTS IN THE (4) TAPPED HOLES. DO NOT DRILL INTO CONCRETE.
3. USE WALL PLATE AS A TEMPLATE. LOCATE THE WALL PLATE ON THE EFFLUENT END WALL PER DIMENSIONS SHOWN. MARK, DRILL AND INSTALL EVERY OTHER ANCHOR.
4. USE JACK SCREWS TO PLUMB AND SQUARE THE WALL PLATE BY USING A CARPENTERS SQUARE. EFFLUENT WALL PLATE TO BE PLUMB AND SQUARE ± 0.25°. WHEN PLUMB AND SQUARE, TIGHTEN NUTS ON THE JACK SCREWS.
5. DRILL THE REMAINING HOLES AND INSTALL THE REMAINING ANCHORS.
6. LOOSEN ANCHORS ENOUGH TO APPLY SEALANT BEHIND THE WALL PLATE AND AROUND THE EFFLUENT WALL PORT. DO NOT LOOSEN JACK SCREWS.
7. TIGHTEN DOWN ALL ANCHORS. RE-VERIFY PLUMB AND SQUARE, THEN RE-CAULK SIDES OF THE PLATE FILLING UP ALL GAPS IN CONCRETE.

**INSTALLATION NOTES:**

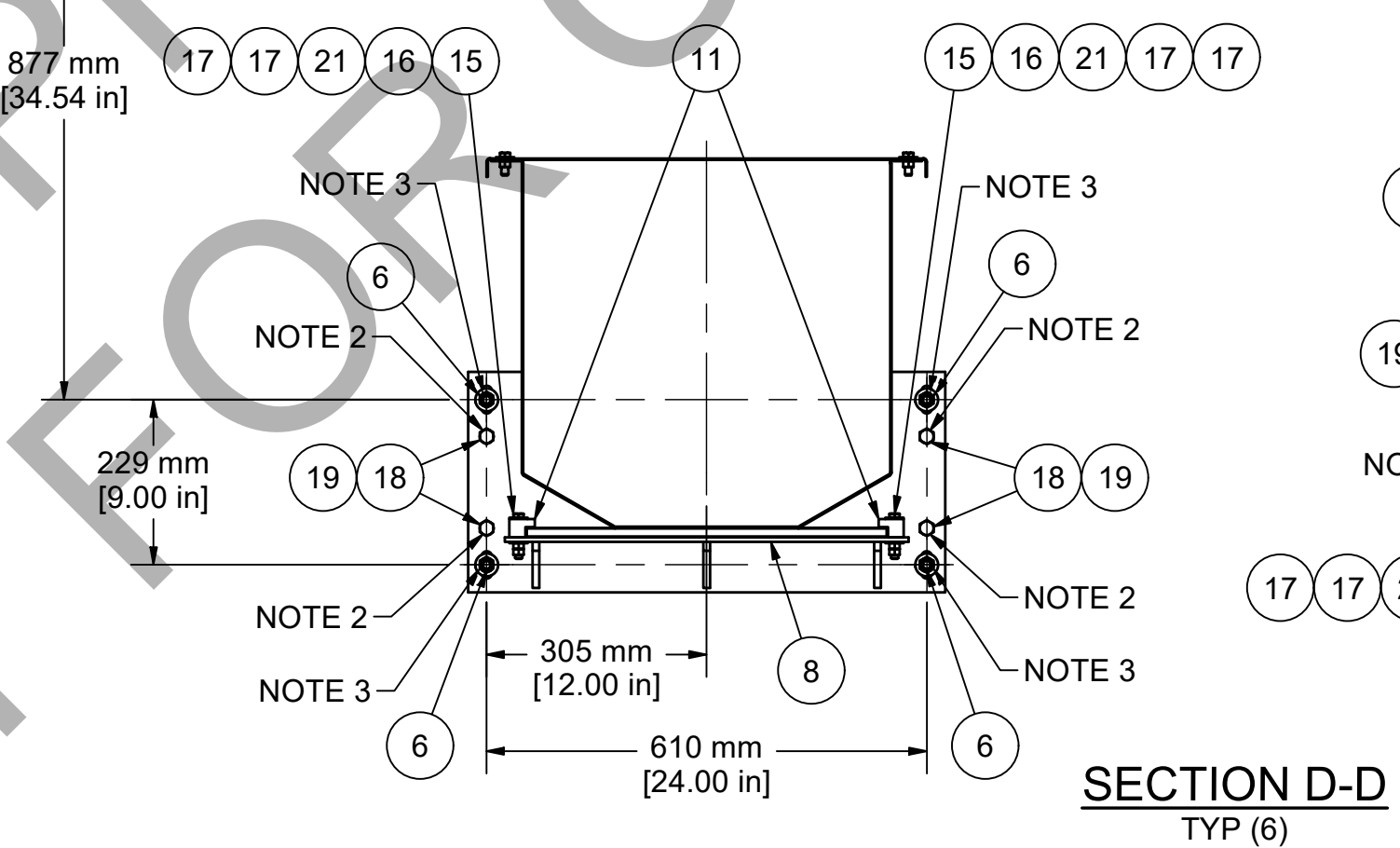
8. VERTICAL SUPPORT BASE PLATES TO BE USED AS A TEMPLATE TO MARK AND DRILL FOR ADHESIVE ANCHORS.
9. REFER TO ADHESIVE ANCHOR DRAWING AND O&M MANUAL FOR PROPER INSTALLATION.
10. FOR ALL EFFLUENT LAUNDER SLIDE BARS: SPIN FULL NUT UNTIL SLIDE BAR IS SNUG AND THEN TORQUE TO 41 ft-lb. LOCK WITH SECOND FULL NUT AGAINST FIRST FULL NUT PER TORQUE SPECIFIED IN ES-1057.

**SECTION A-A**

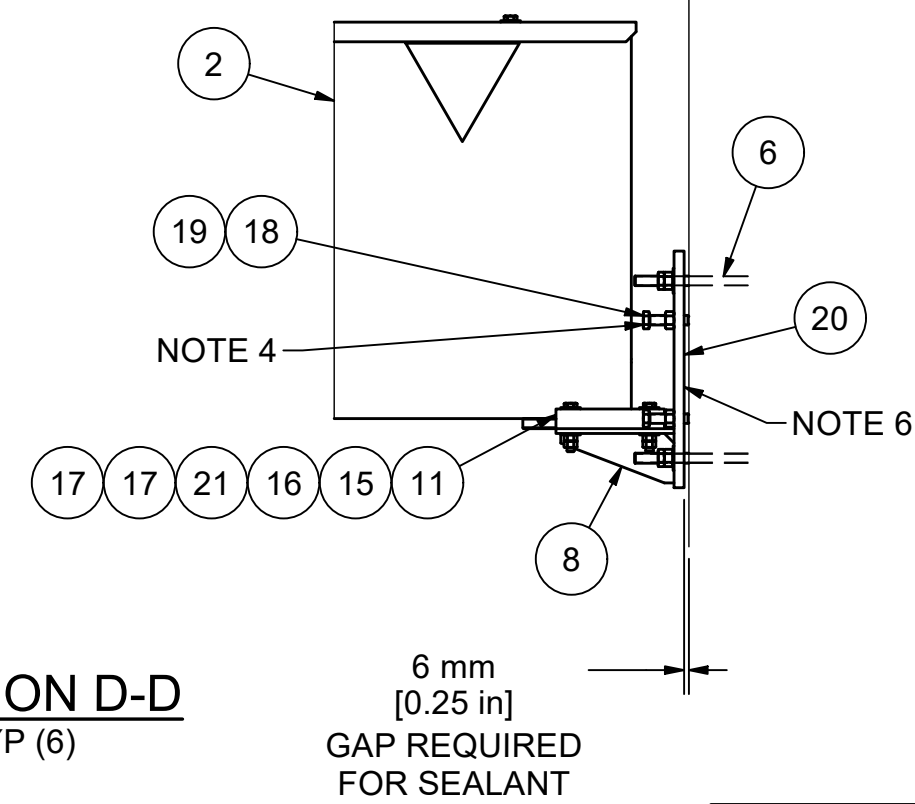
**TOP OF WALL**



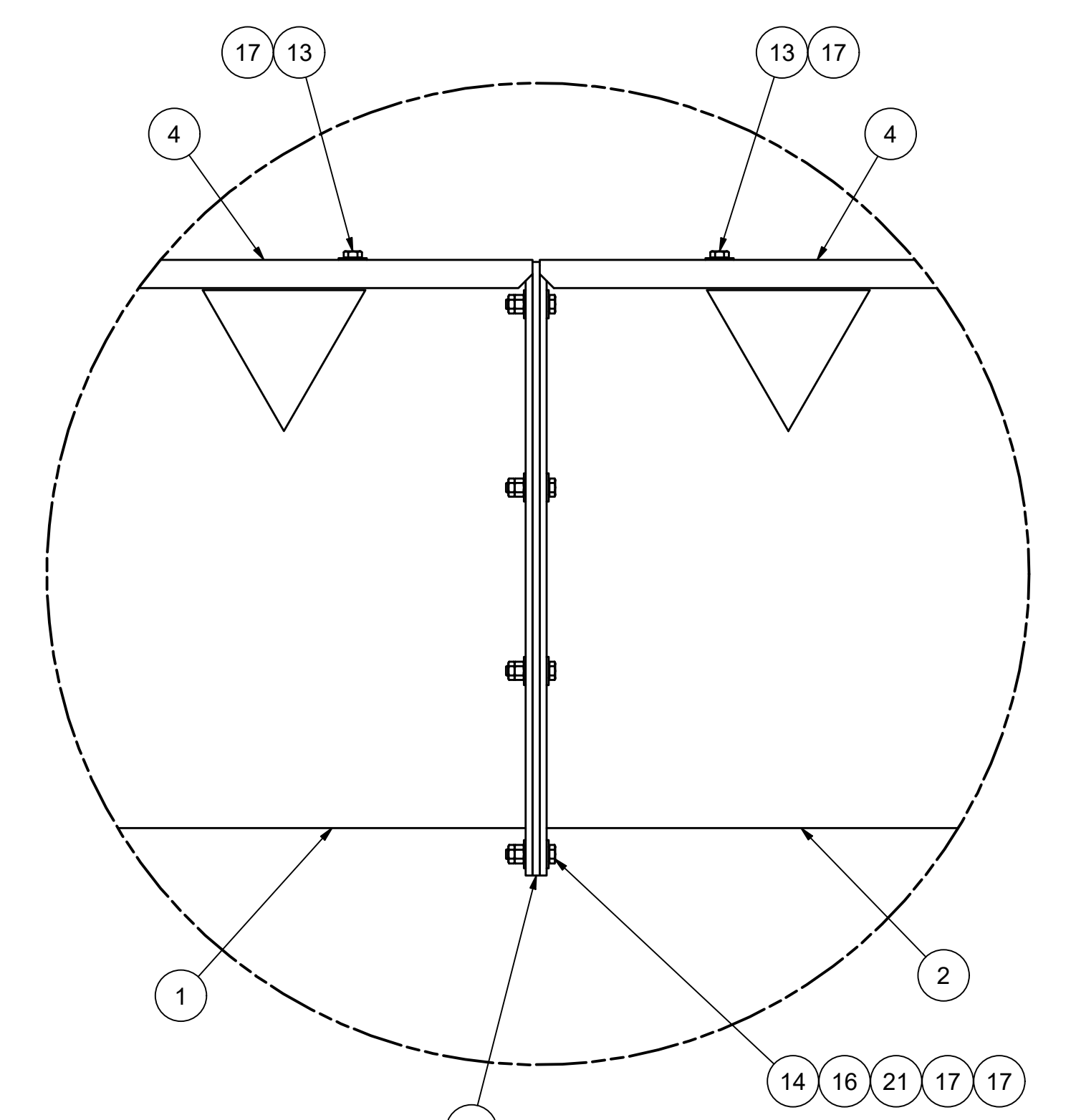
**SECTION C-C**  
TYP (6)



**SECTION D-D**  
TYP (6)

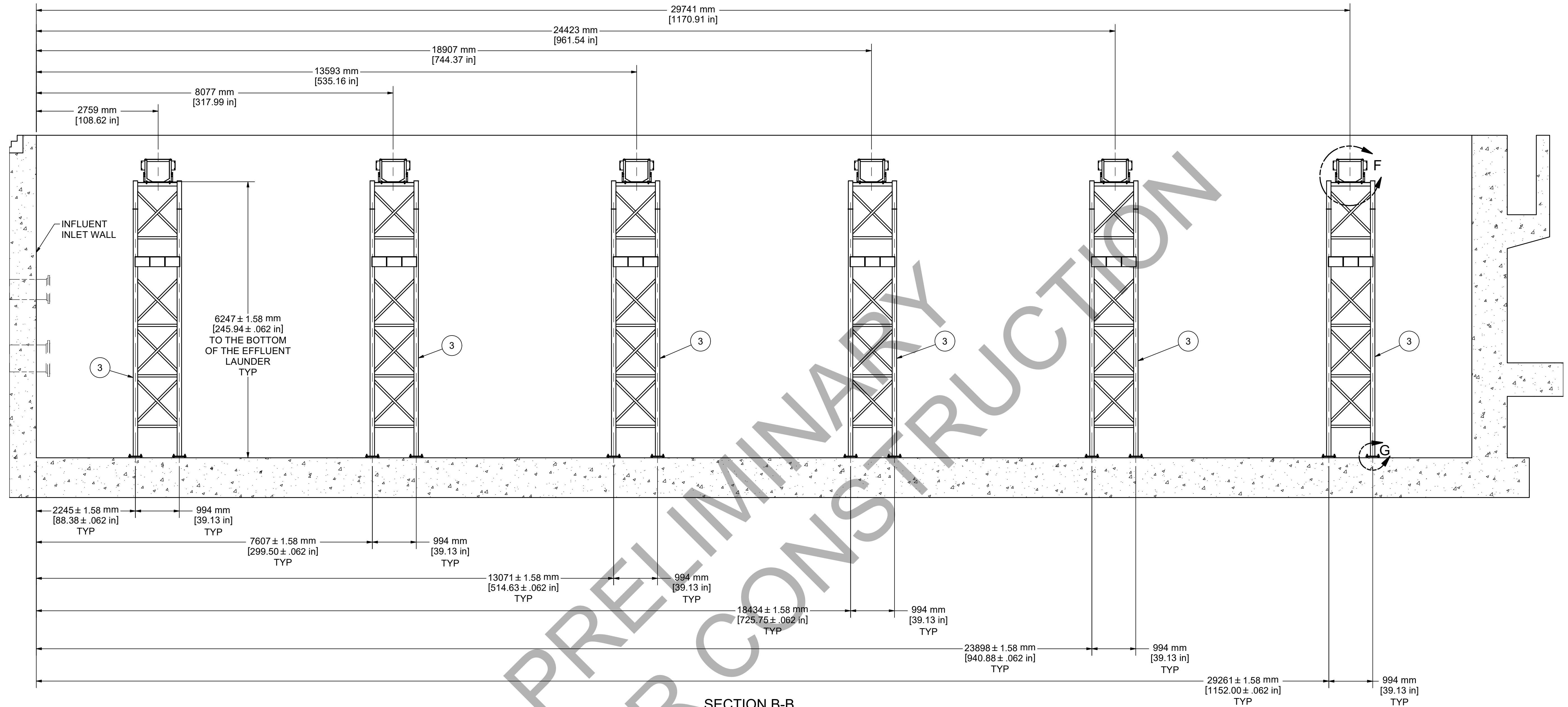


**DETAIL E**  
TYP (6)

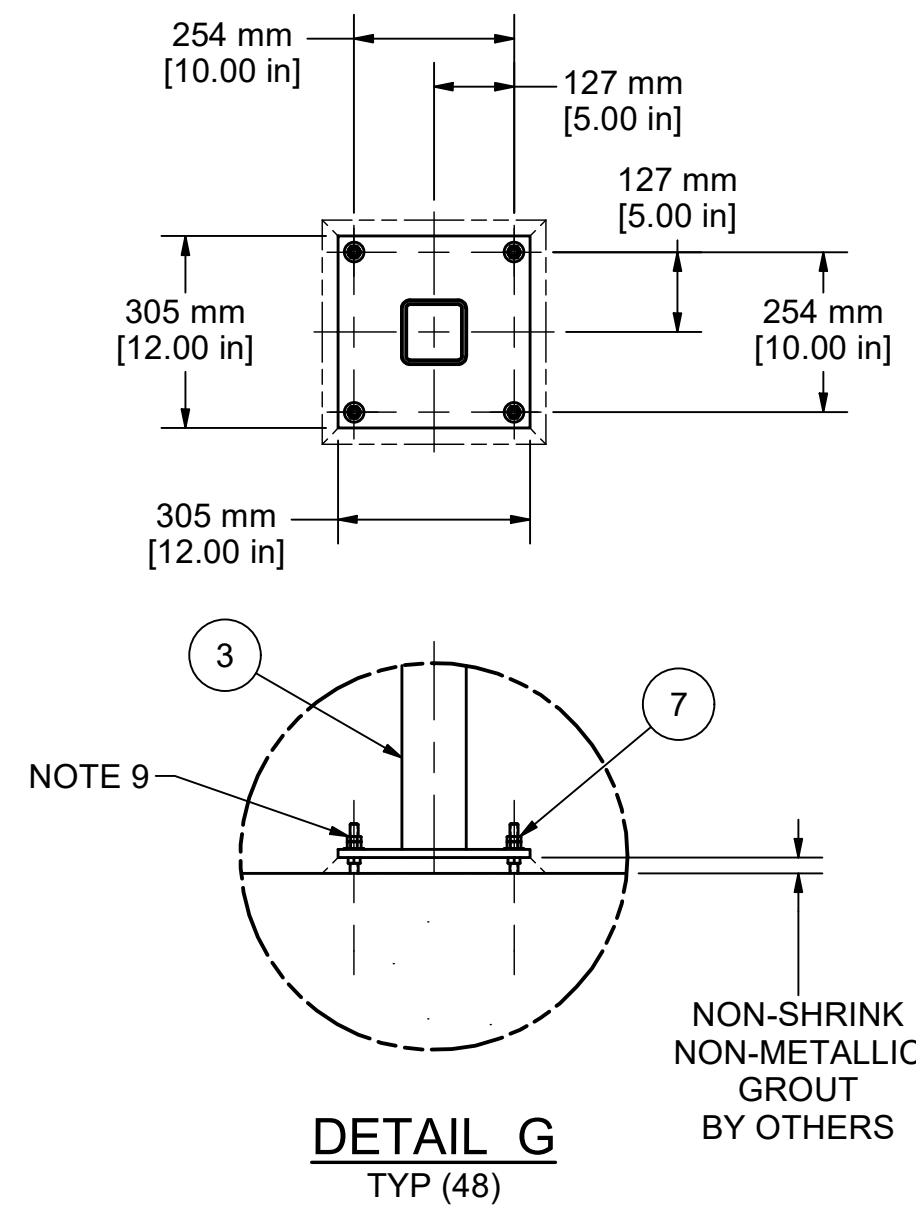


**CONFIDENTIAL**

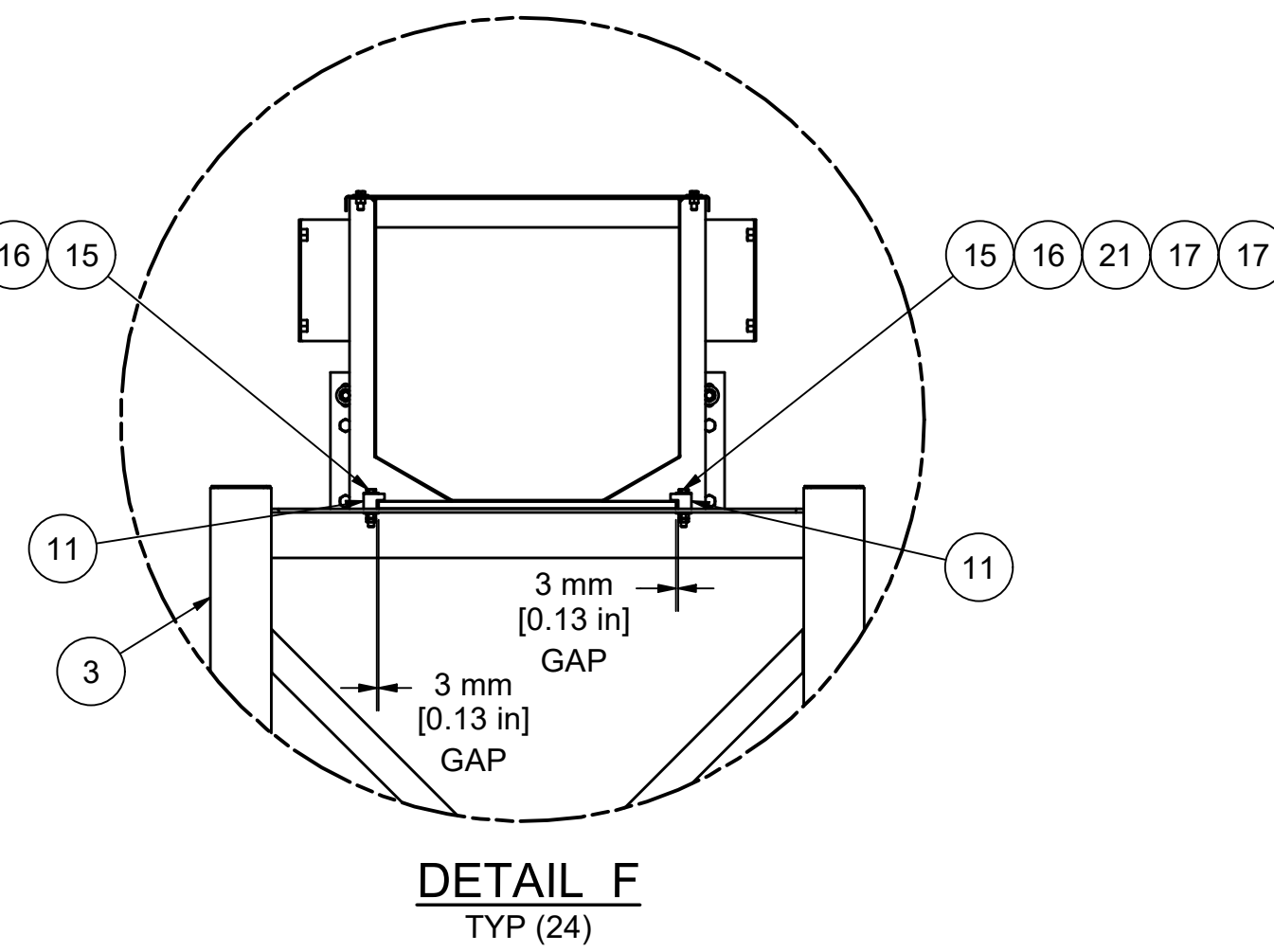
JOB NAME: NAPANEE WPCP UPGRADES		AQUA-AEROBIC SYSTEMS, INC. A Metawater Company	
JOB LOCATION: NAPANEE, ONTARIO, CANADA		UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES	
		DO NOT SCALE DRAWING	
		FRACTIONAL DIMENSIONS: ±1/16"	
		ALL TWO PLACE DECIMALS: ±0.010"	
		ALL THREE PLACE DECIMALS: ±0.005"	
		ALL ANGLES: ±1/2°	
		ANSI	
MATERIAL: 304 SS		DRAWN BY: JFM	
SIMILAR TO: 911689230004		DATE: 2024-09-10	
TYPE: AQUANEREDA		SHEET: 2 OF 3	
A	2024-09-11	JFM	SUBMITTAL
REV	ERNECO	DATE	BY
DRAWING NAME: EFFLUENT LAUNDER INSTL, AGS 2		DRAWING NUMBER: 9704419A30003	
		SCALE: 1:39	
		SIZE: D	



SECTION B-B



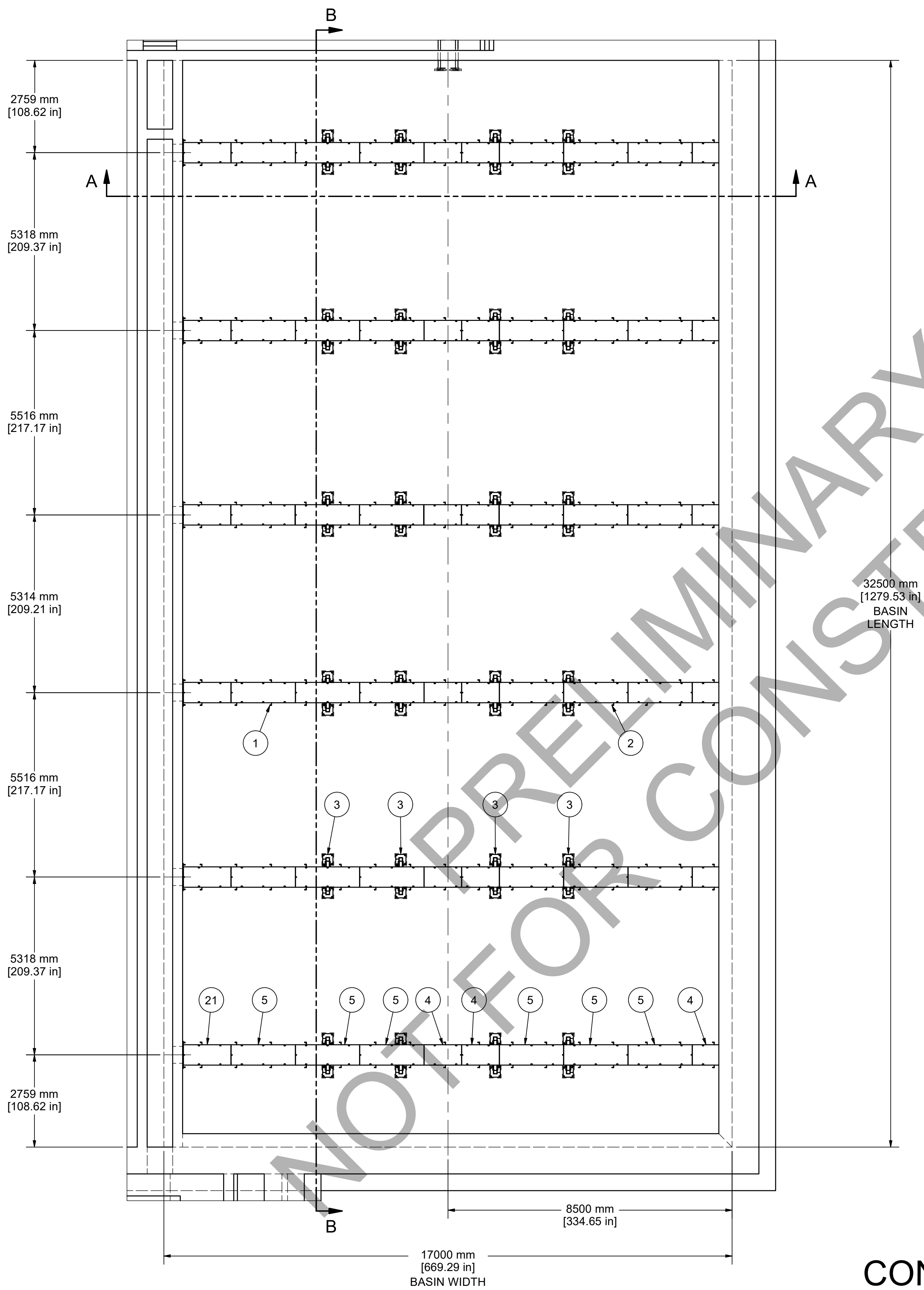
DETAIL G  
TYP (48)



DETAIL F  
TYP (24)

**CONFIDENTIAL**

JOB NAME: NAPANEE WPCP UPGRADES				AQUA-AEROBIC SYSTEMS, INC. A Mettler Company	
JOB LOCATION: NAPANEE, ONTARIO, CANADA				UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES	
				DO NOT SCALE DRAWING	
				FRACTIONAL DIMENSIONS ±.1/16	
				ALL TWO PLACE DECIMALS ±.010	
				ALL THREE PLACE DECIMALS ±.005	
				ALL ANGLES ±.12°	
				ANSI	
MATERIAL: 304 SS				SIMILAR TO: 911689230004	
TYPE: AQUANEREDA				DRAWN BY: JFM	
DATE: 2024-09-11				DATE: 2024-09-10	
REV: ERNECO				WEIGHT: 3 OF 3	
DATE: 2024-09-11				REVISION DESCRIPTION	
DRAWING NUMBER: 9704419A30003				SCALE: 1:48	
EFFLUENT LAUNDER INSTL, AGS 2				SIZE: D	

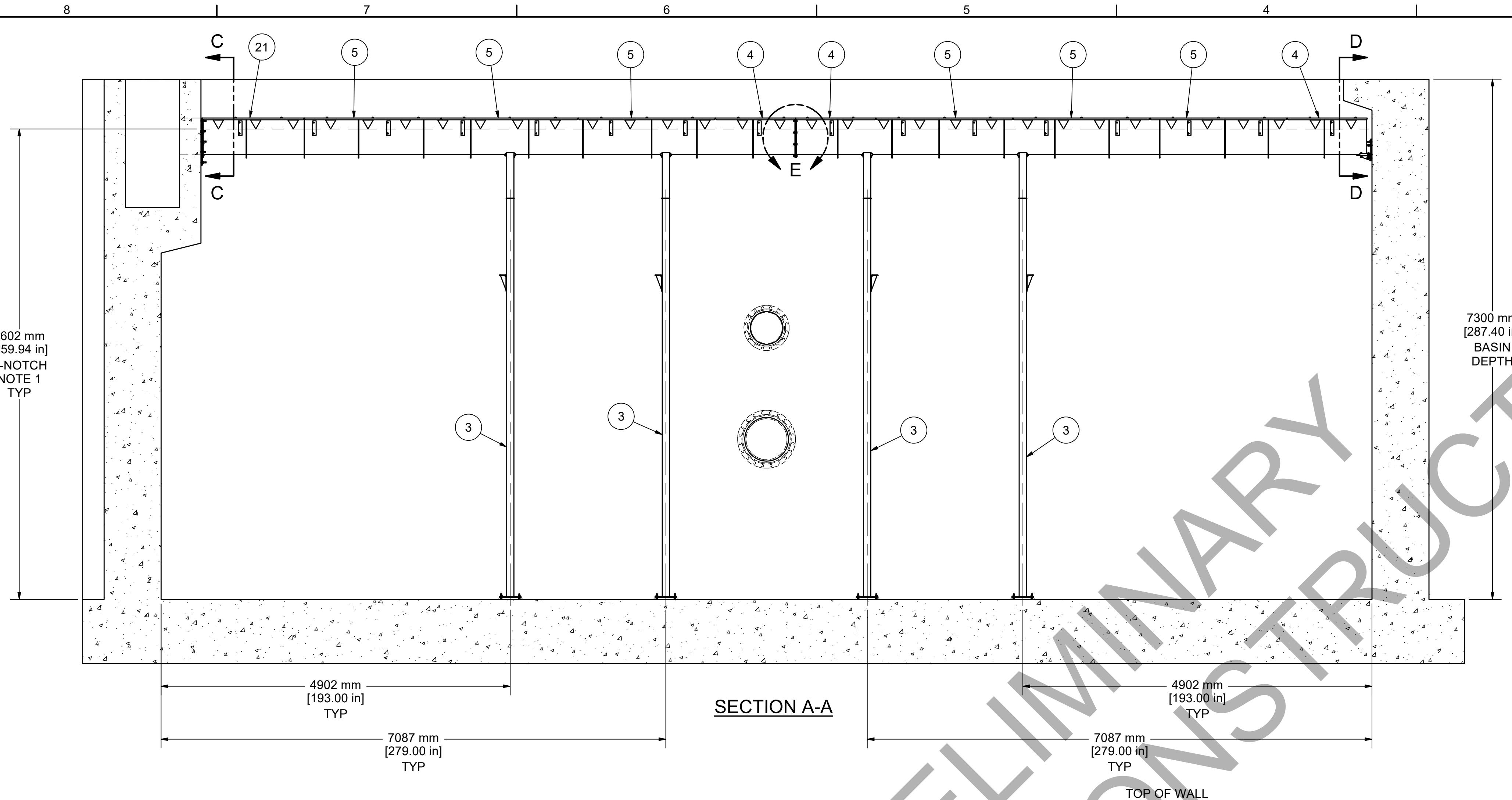


**GENERAL INSTALLATION NOTES:**

- PLEASE REVIEW ALL INDIVIDUAL INSTALLATION DRAWINGS FOR ACTUAL DETAILS. REFER TO ASSEMBLY INSTRUCTIONS IN THE OPERATION AND MAINTENANCE MANUAL PRIOR TO INSTALLING THE EQUIPMENT.
- IT IS RECOMMENDED THAT ALL THREADED FASTENERS MUST BE SECURED WITH A FULL NUT AND JAM NUT OR TWO FULL NUTS.
- ANTI-SEIZE LUBRICANT IS REQUIRED ON ALL STAINLESS STEEL FASTENERS UNLESS OTHERWISE SPECIFIED.
- ALL PIPING, GASKETS, HARDWARE AND PIPE SUPPORTS BEYOND AQUA-AEROBIC SYSTEMS TERMINATION FLANGE HAVE BEEN SHOWN FOR REFERENCE ONLY AND ARE TO BE SUPPLIED AND INSTALLED BY OTHERS.
- ALL WALKWAYS / PLATFORMS HAVE BEEN SHOWN FOR REFERENCE ONLY AND ARE TO BE SUPPLIED AND INSTALLED BY OTHERS.
- OVERFLOWS ARE RECOMMENDED WITHIN ALL BASINS.
- TORQUE ALL FASTENERS PER ES-1057, UNLESS OTHERWISE SPECIFIED.
- EFFLUENT SYSTEM IS NOT DESIGNED AS A WALKWAY, NOR IS IT DESIGNED TO SUPPORT ANY EQUIPMENT NOT SUPPLIED BY AQUA-AEROBIC SYSTEMS.
- COMPONENT WEIGHTS:
  - EFFLUENT LAUNDER WELDMENT, CHANNEL SIDE, LONG: 279 KG [614 LB]
  - EFFLUENT LAUNDER WELDMENT: 287 KG [632 LB]
  - EFFLUENT LAUNDER SUPPORT WELDMENT: 332 KG [730 LB]
  - EFFLUENT LAUNDER COVER PLATE, SHORT: 12 KG [25 LB]
  - EFFLUENT LAUNDER COVER PLATE, LONG: 20 KG [43 LB]
  - EFFLUENT LAUNDER COVER PLATE, END: 15 KG [32 LB]
  - EFFLUENT LAUNDER SLIDING WELDMENT: 27 KG [58 LB]
  - EFFLUENT LAUNDER WALL PLATE: 29 KG [62 LB]

**CONFIDENTIAL**

JOB NAME: NAPANEE WPCP UPGRADES				AQUA-AEROBIC SYSTEMS, INC. <small>A Metawater Company</small>			
JOB LOCATION: NAPANEE, ONTARIO, CANADA				DO NOT SCALE DRAWING			
				UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES			
				FRACTIONAL DIMENSIONS ±: 1/16			
				ALL TWO PLACE DECIMALS ±: 0.010			
				ALL THREE PLACE DECIMALS ±: 0.005			
				ALL ANGLES ±: 12"			
				ANSI			
				MATERIAL: 304 SS			
				SIMILAR TO: 911689230004			
				TYPE: AQUANEREDA			
A		2024-09-16		JFM		SUBMITTAL	
REV		ERNECO		DATE		BY	
DRAWING NAME: EFFLUENT LAUNDER INSTL, AGS 3				DRAWING NUMBER: 9704419A30004			
				SCALE: 1:78		SIZE: D	

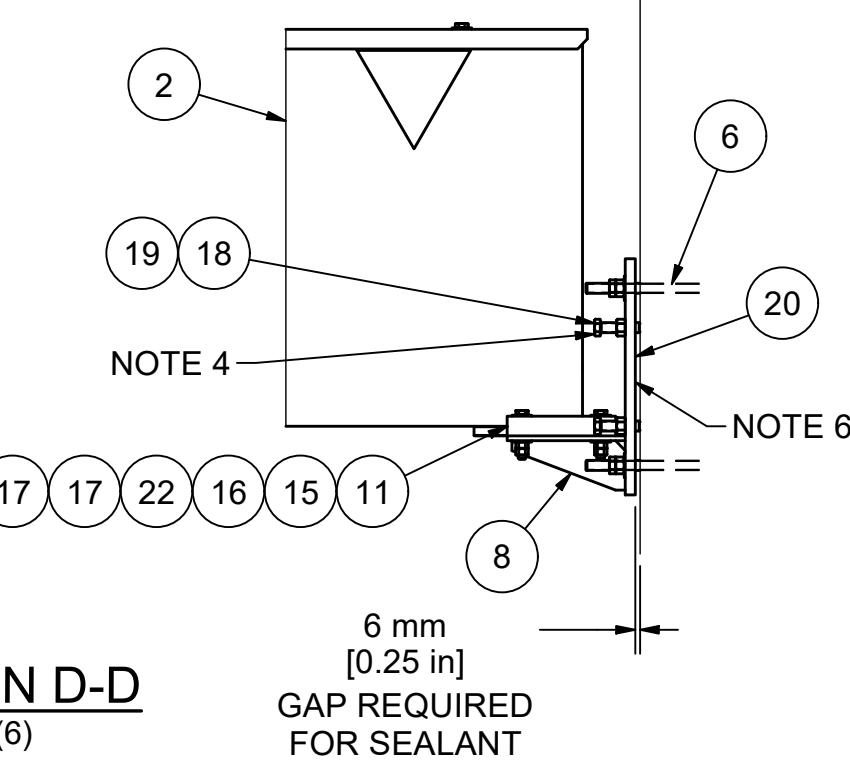
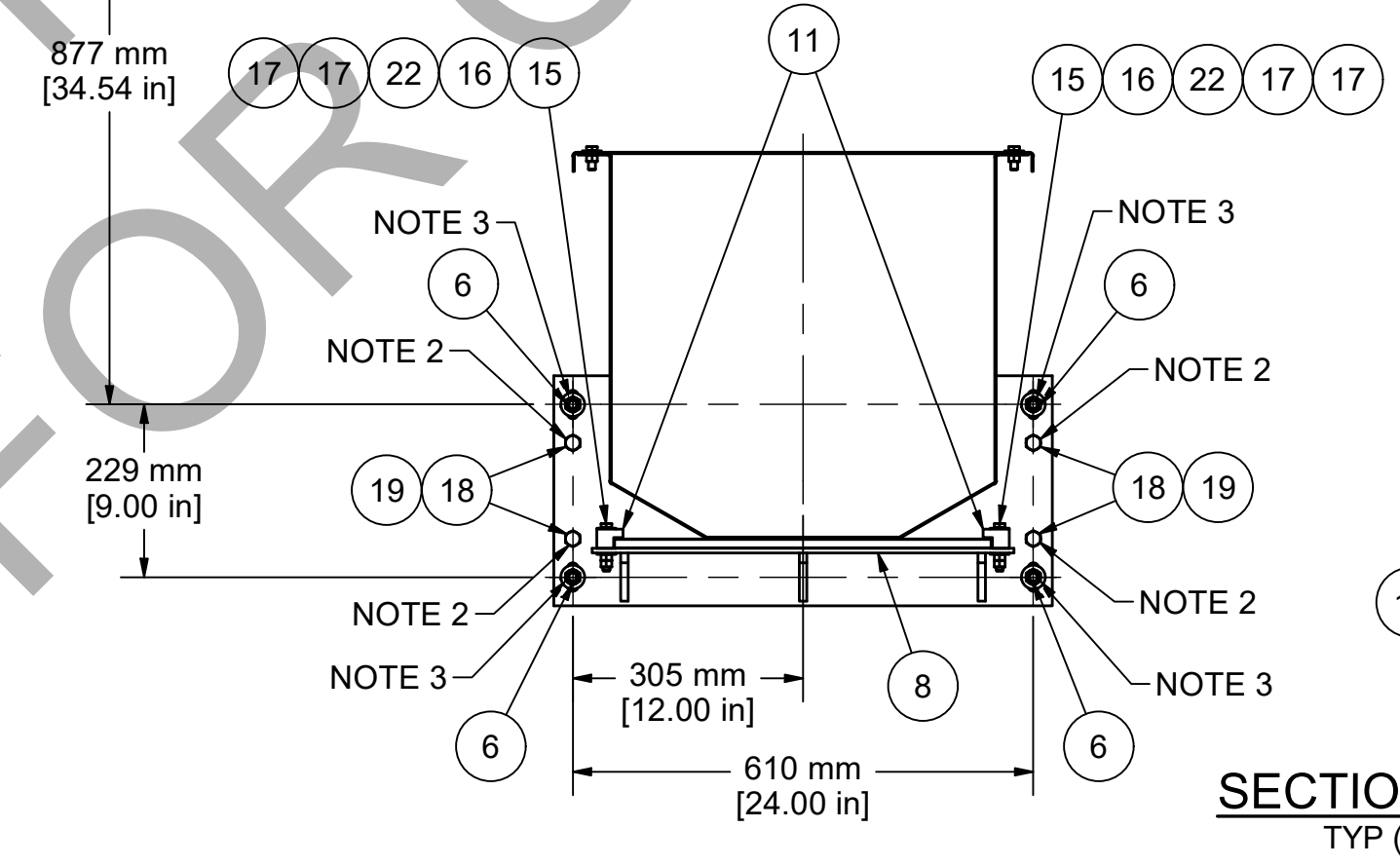
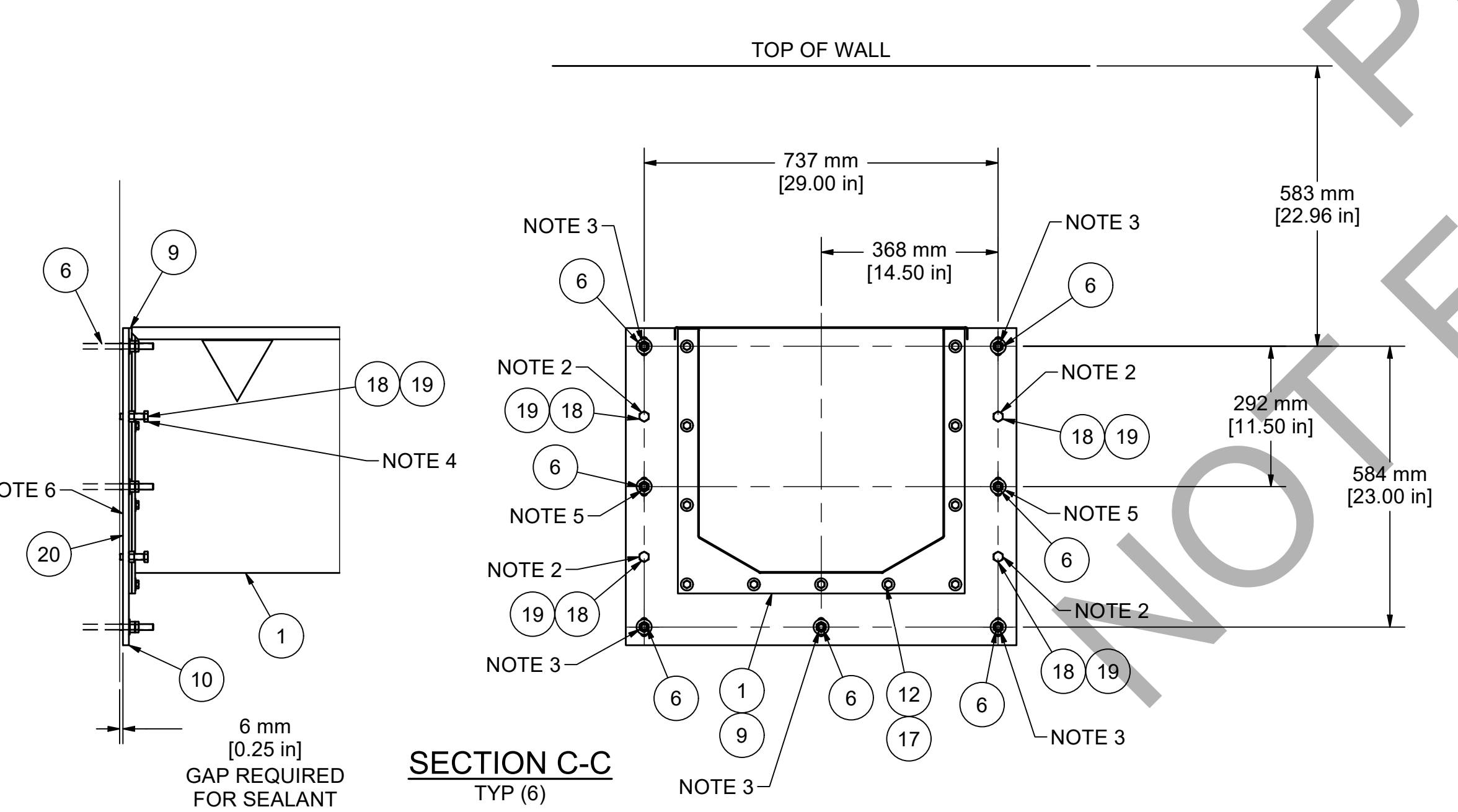
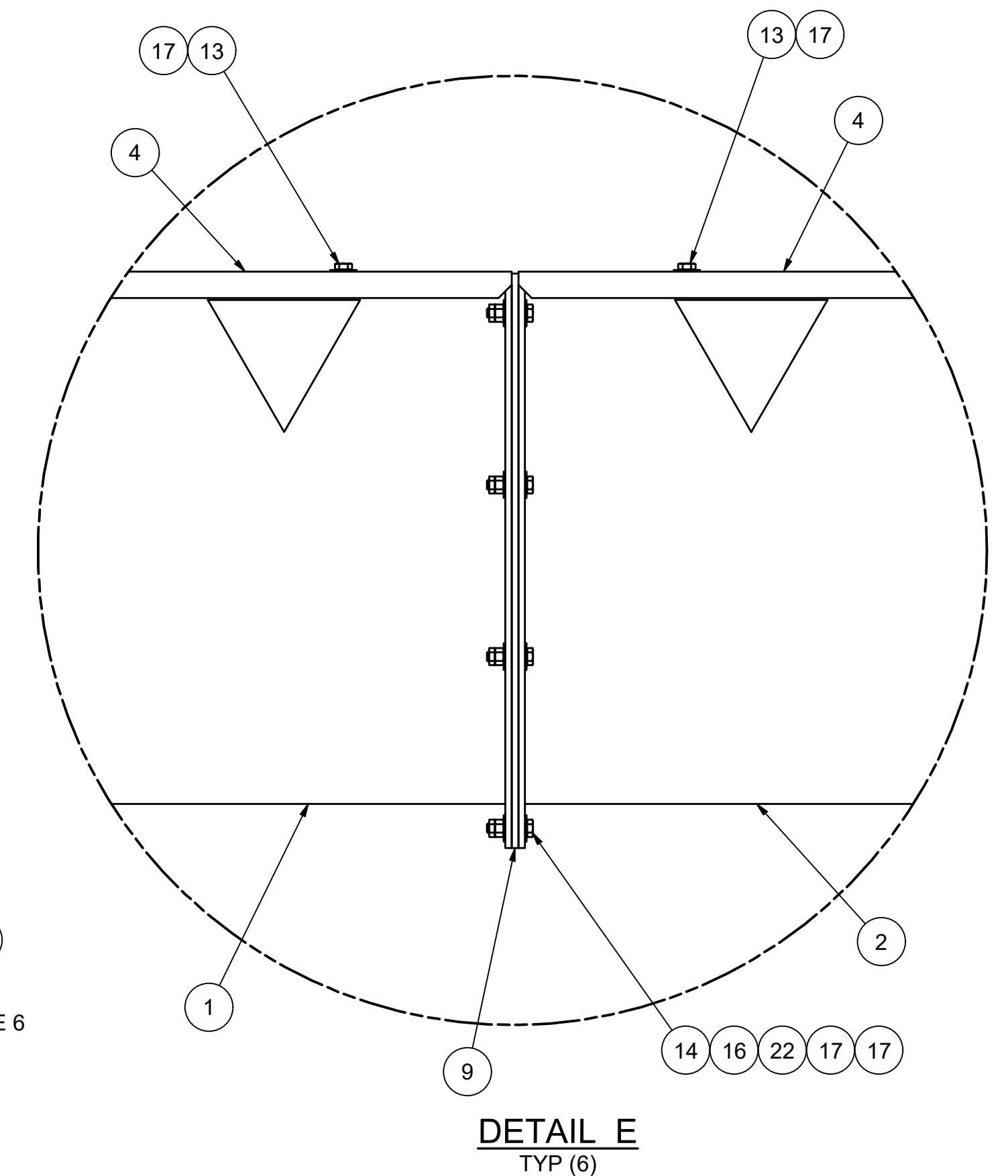


**EFFLUENT WALL PLATE INSTALLATION NOTES:**

1. ALL V-NOTCHES ARE TO BE LEVEL WITHIN +/- 3/16" ACROSS THE ENTIRE BASIN. USE A LASER GUIDED LEVEL.
2. INSTALL JACK SCREWS AND JAM NUTS IN THE (4) TAPPED HOLES. DO NOT DRILL INTO CONCRETE.
3. USE WALL PLATE AS A TEMPLATE. LOCATE THE WALL PLATE ON THE EFFLUENT END WALL PER DIMENSIONS SHOWN. MARK, DRILL AND INSTALL EVERY OTHER ANCHOR.
4. USE JACK SCREWS TO PLUMB AND SQUARE THE WALL PLATE BY USING A CARPENTERS SQUARE. EFFLUENT WALL PLATE TO BE PLUMB AND SQUARE  $\pm 0.25"$ . WHEN PLUMB AND SQUARE, TIGHTEN NUTS ON THE JACK SCREWS.
5. DRILL THE REMAINING HOLES AND INSTALL THE REMAINING ANCHORS.
6. LOOSEN ANCHORS ENOUGH TO APPLY SEALANT BEHIND THE WALL PLATE AND AROUND THE EFFLUENT WALL PORT. DO NOT LOOSEN JACK SCREWS.
7. TIGHTEN DOWN ALL ANCHORS. RE-VERIFY PLUMB AND SQUARE, THEN RE-CAULK SIDES OF THE PLATE FILLING UP ALL GAPS IN CONCRETE.

**INSTALLATION NOTES:**

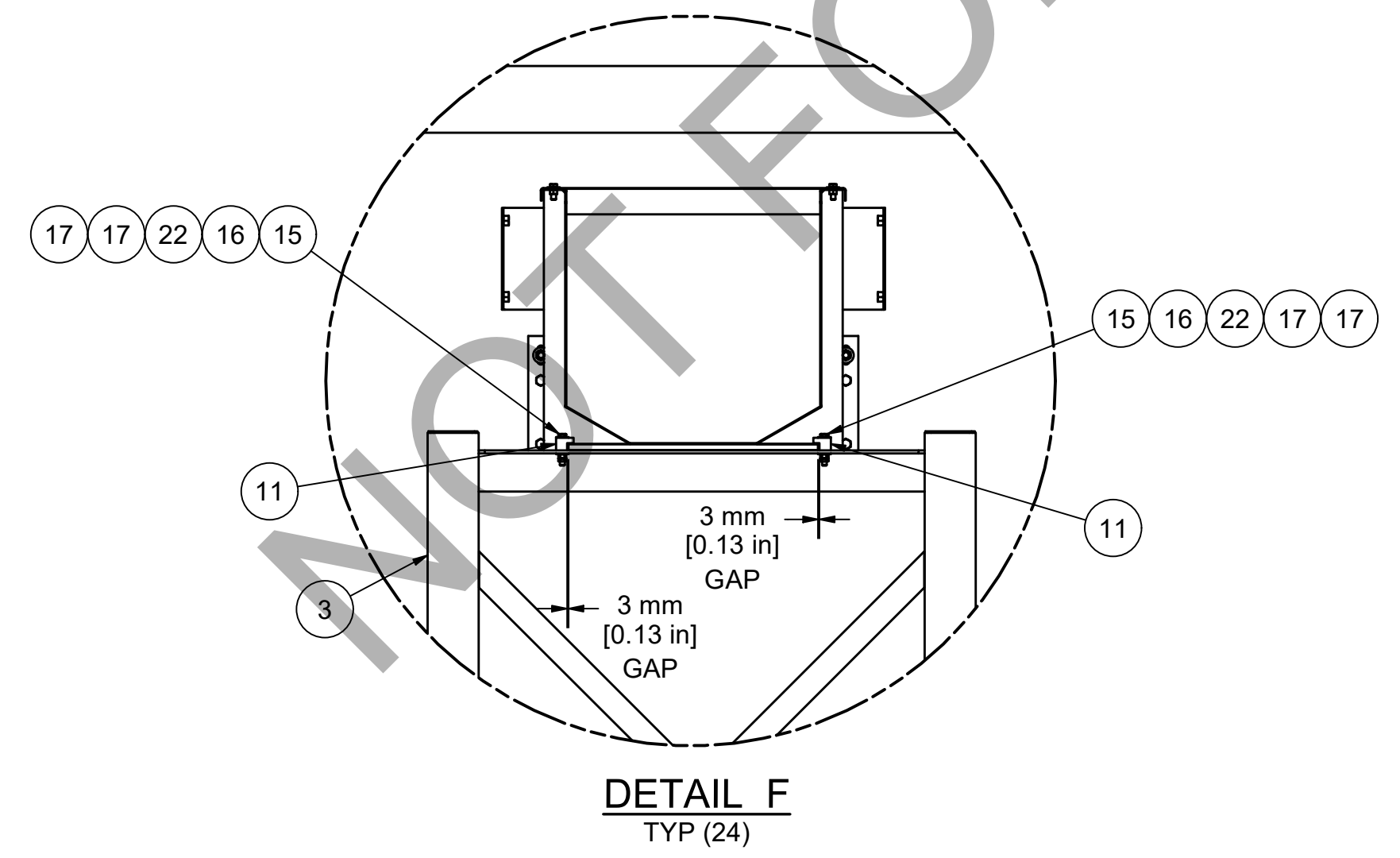
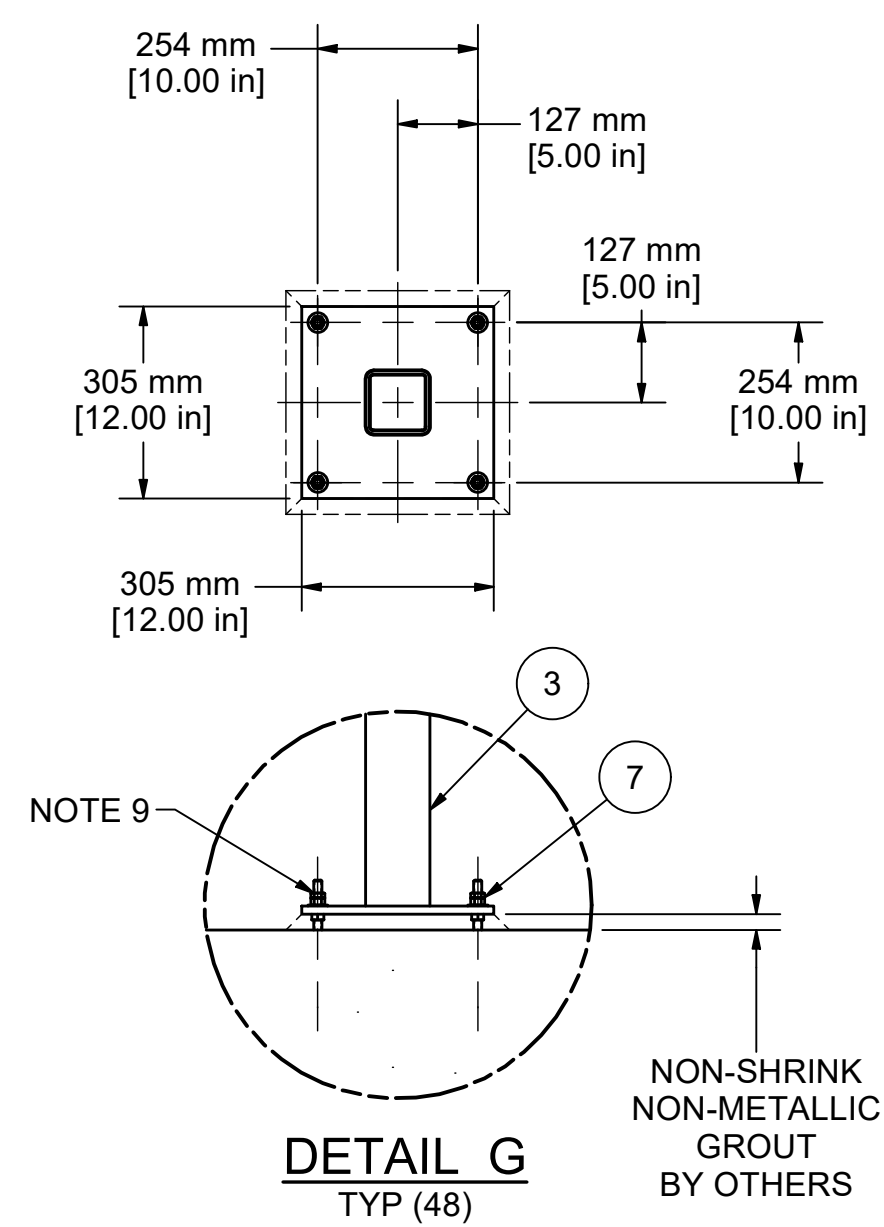
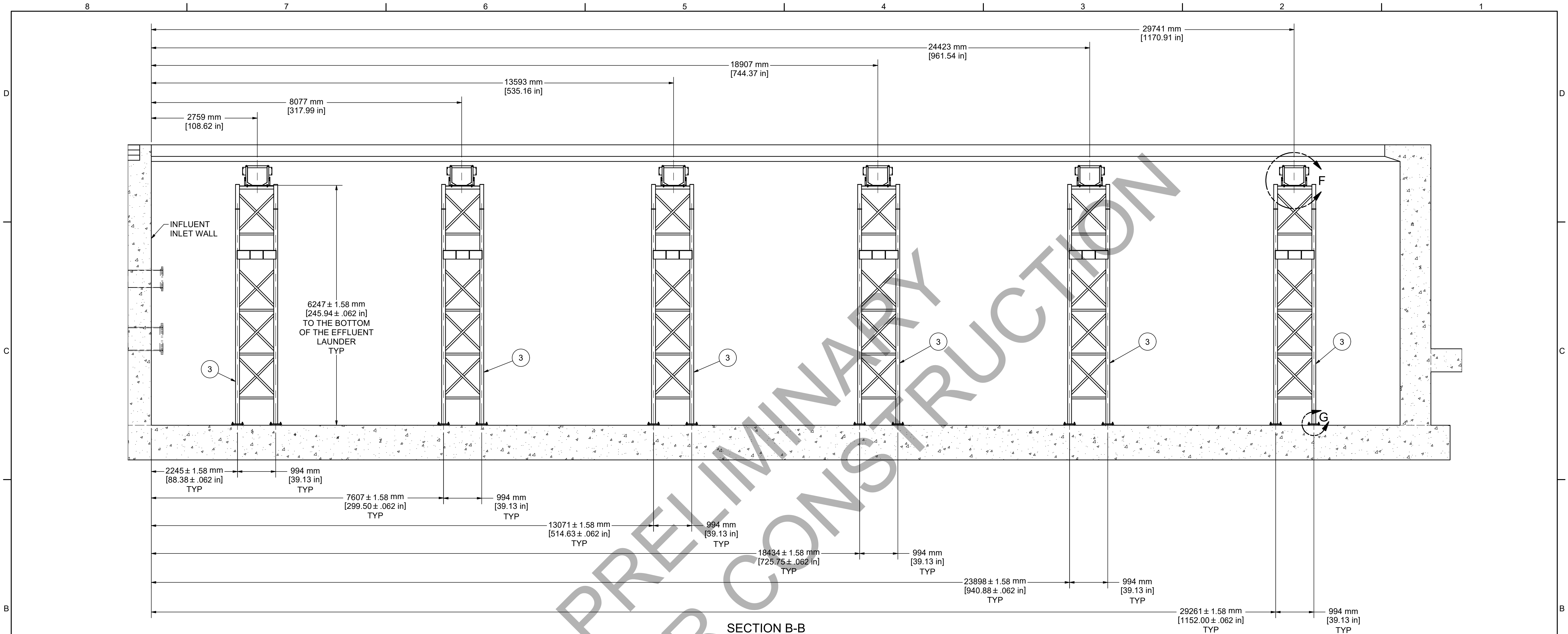
8. VERTICAL SUPPORT BASE PLATES TO BE USED AS A TEMPLATE TO MARK AND DRILL FOR ADHESIVE ANCHORS.
9. REFER TO ADHESIVE ANCHOR DRAWING AND O&M MANUAL FOR PROPER INSTALLATION.
10. FOR ALL EFFLUENT LAUNDR SLIDE BARS: SPIN FULL NUT UNTIL SLIDE BAR IS SNUG AND THEN TORQUE TO 41 ft-lb. LOCK WITH SECOND FULL NUT AGAINST FIRST FULL NUT PER TORQUE SPECIFIED IN ES-1057.



**CONFIDENTIAL**

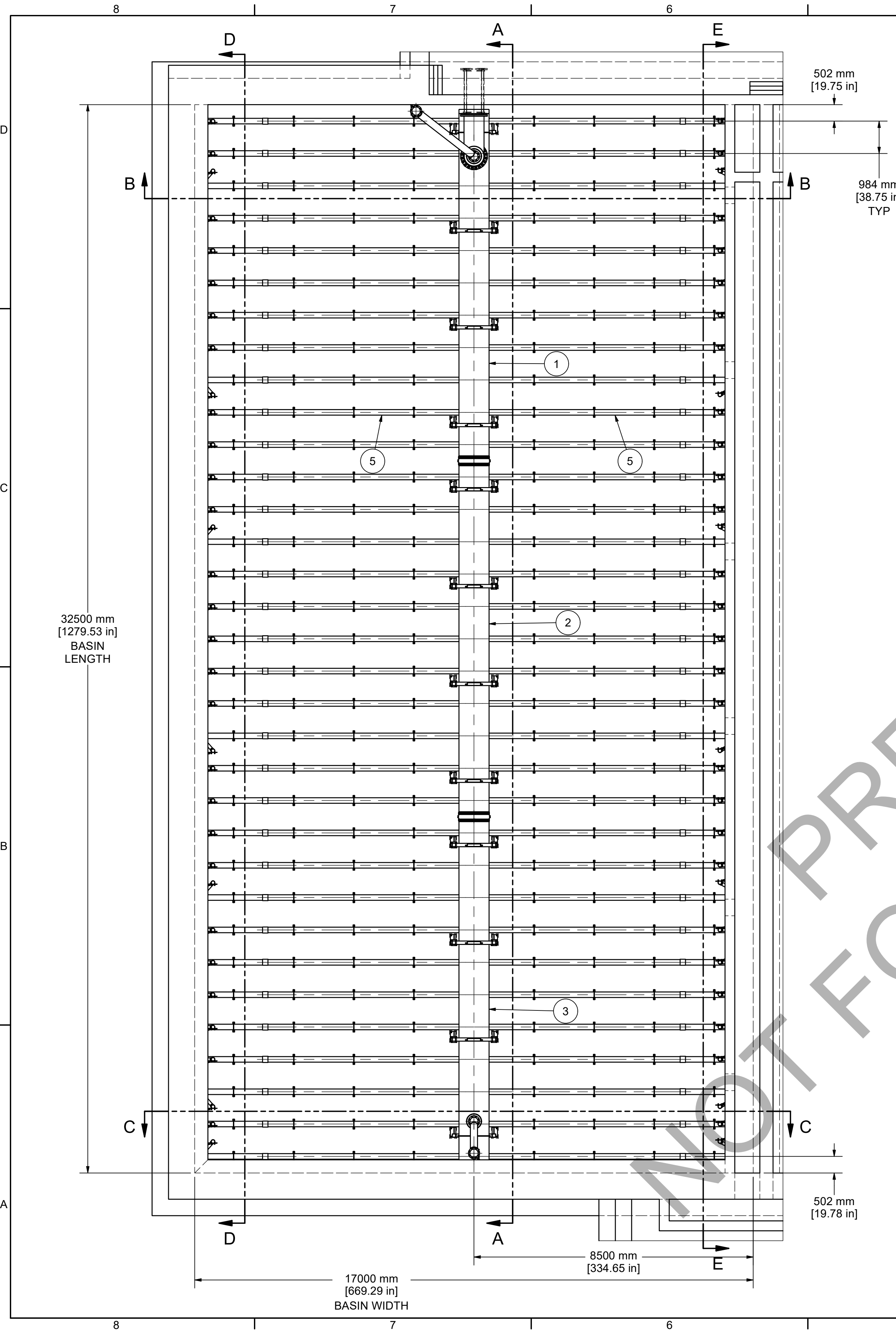
JOB NAME: NAPANEE WPCP UPGRADES		AQUA-AEROBIC SYSTEMS, INC. A Mettler Company	
JOB LOCATION: NAPANEE, ONTARIO, CANADA		DO NOT SCALE DRAWING	
		UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES	
		FRACTIONAL DIMENSIONS: +/- 1/16"	
		ALL TWO PLACE DECIMALS: +/- 0.010"	
		ALL THREE PLACE DECIMALS: +/- 0.005"	
		ALL ANGLES: +/- 1/2°	
		ANSI	
MATERIAL: 304 SS		DRAWN BY: JFM	
SIMILAR TO: 911689230004		DATE: 2024-09-11	
TYPE: AQUANEREDA		WEIGHT: 2 OF 3	
REV: ERN/ECO		REVISION DESCRIPTION	
DATE: 2024-09-16		BY: JFM	
SUBMITTAL		DRAWING NUMBER: 9704419A30004	
EFFLUENT LAUNDR INSTL, AGS 3		SCALE: 1:39	
		SIZE: D	





**CONFIDENTIAL**

JOB NAME: NAPANEE WPCP UPGRADES		AQUA-AEROBIC SYSTEMS, INC. <small>A Metawater Company</small>	
JOB LOCATION: NAPANEE, ONTARIO, CANADA		UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES	
		FRACTIONAL DIMENSIONS ±.1/16	
		ALL TWO PLACE DECIMALS ±.010	
		ALL THREE PLACE DECIMALS ±.005	
		ALL ANGLES ±.12°	
		ANSI	
MATERIAL: 304 SS		DRAWN BY: JFM	
SIMILAR TO: 911689230004		DATE: 2024-09-11	
TYPE: AQUANEREDA		WEIGHT: 3 OF 3	
A	2024-09-16	JFM	SUBMITTAL
REV	ERNECO	DATE	BY
DRAWING NUMBER: 9704419A30004		SCALE: 1:48	
EFFLUENT LAUNDER INSTL, AGS 3		SIZE: D	



**NOTES:**

1. PLEASE REVIEW ALL INDIVIDUAL INSTALLATION DRAWINGS FOR ACTUAL DETAILS. REFER TO ASSEMBLY INSTRUCTIONS IN THE OPERATION AND MAINTENANCE MANUAL PRIOR TO INSTALLING THE EQUIPMENT.
2. IT IS RECOMMENDED THAT ALL THREADED FASTENERS MUST BE SECURED WITH A FULL NUT AND A JAM NUT OR TWO FULL NUTS.
3. ANTI-SEIZE LUBRICANT IS REQUIRED ON ALL STAINLESS STEEL FASTENERS, UNLESS OTHERWISE SPECIFIED.
4. ALL PIPING, GASKETS, HARDWARE AND PIPE SUPPORTS BEYOND AQUA-AEROBIC SYSTEMS TERMINATION FLANGE HAVE BEEN SHOWN FOR REFERENCE ONLY AND TO BE SUPPLIED AND INSTALLED BY OTHERS.
5. ALL WALKWAYS / PLATFORMS HAVE BEEN SHOWN FOR REFERENCE ONLY AND TO BE SUPPLIED AND INSTALLED BY OTHERS.
6. OVERFLOWS ARE RECOMMENDED WITHIN ALL BASINS.
7. TORQUE ALL FASTENERS PER ES-1057, UNLESS OTHERWISE SPECIFIED.
8. INFLUENT LATERAL PIPES MUST BE MOUNTED WITH THE ORIFICE HOLES POINTED STRAIGHT DOWN WITHIN +/- 1°. A MARK HAS BEEN MADE AT EACH END OF THE PIPE TO AID IN ALIGNMENT. THE SUPPORT BRACKETS MUST NOT COVER THE ORIFICES.
9. ALL INFLUENT LATERAL PIPES MUST BE HELD ON THE SAME CENTERLINE ELEVATION WITHIN +/- 1/4" TO MAINTAIN UNIFORM DISTRIBUTION.
10. USE VENT PIPE SUPPORT BRACKETS AS A TEMPLATE TO MARK AND DRILL FOR ADHESIVE ANCHORS.
11. REFER TO ADHESIVE ANCHOR DRAWING AND O&M MANUAL FOR INSTALLATION INSTRUCTIONS.
12. FOR ALL U-BOLT CLAMPS: SPIN FULL NUT UNTIL CLAMP IS SNUG AND THEN TURN THE FIRST FULL NUT AN ADDITIONAL 1/2 TURN. LOCK WITH JAM OR FULL NUT AGAINST FIRST FULL NUT PER TORQUE SPECIFIED IN ES-1057.
13. THE FIXED END OF THE HEADER SECTION MUST BE LOCATED RELATIVE TO THE INFLUENT WALL, NOT THE PRECEDING LATERAL ROW. PIPES WILL THEN BE INSERTED EQUALLY INTO THE COUPLING.
14. IT IS PREFERRED TO ERECT THE HEADER PIPING WHEN PIPE TEMPERATURES ARE AS CLOSE TO 70°F, AS POSSIBLE.
15. FOR SUMMER INSTALLATIONS, THE PIPES CAN BE COOLED WITH WATER, SHADE OR INSTALLED EARLY IN THE MORNING. PIPES SHOULD NOT EXCEED 122°F SURFACE TEMPERATURE DURING INSTALLATION.
16. FOR WINTER INSTALLATIONS, INSTALLATION OF THE JOINTS SHOULD TAKE PLACE AT THE WARMEST TIME OF THE DAY, WHEN THE TEMPERATURE IS LESS THAN 18°F AND IF LOW POWER HEATING BLANKETS OR DARK COLORED TARPS ARE AVAILABLE, THEY SHOULD BE USED TO WARM THE PIPES PRIOR TO CENTERING THE EXPANSION JOINT OVER THE GAP.
17. FILL HOLE 1/2 TO 2/3 FULL OF ADHESIVE COMPOUND. TWISTING SLIGHTLY, INSERT THREADED ROD TO EMBEDMENT DEPTH AS SHOWN. DO NOT DISTURB THREADED ROD UNTIL CURE TIME HAS ELAPSED. REFER TO SECTION 4 IN THE OPERATION AND MAINTENANCE MANUAL FOR ADHESIVE CURE TIME.

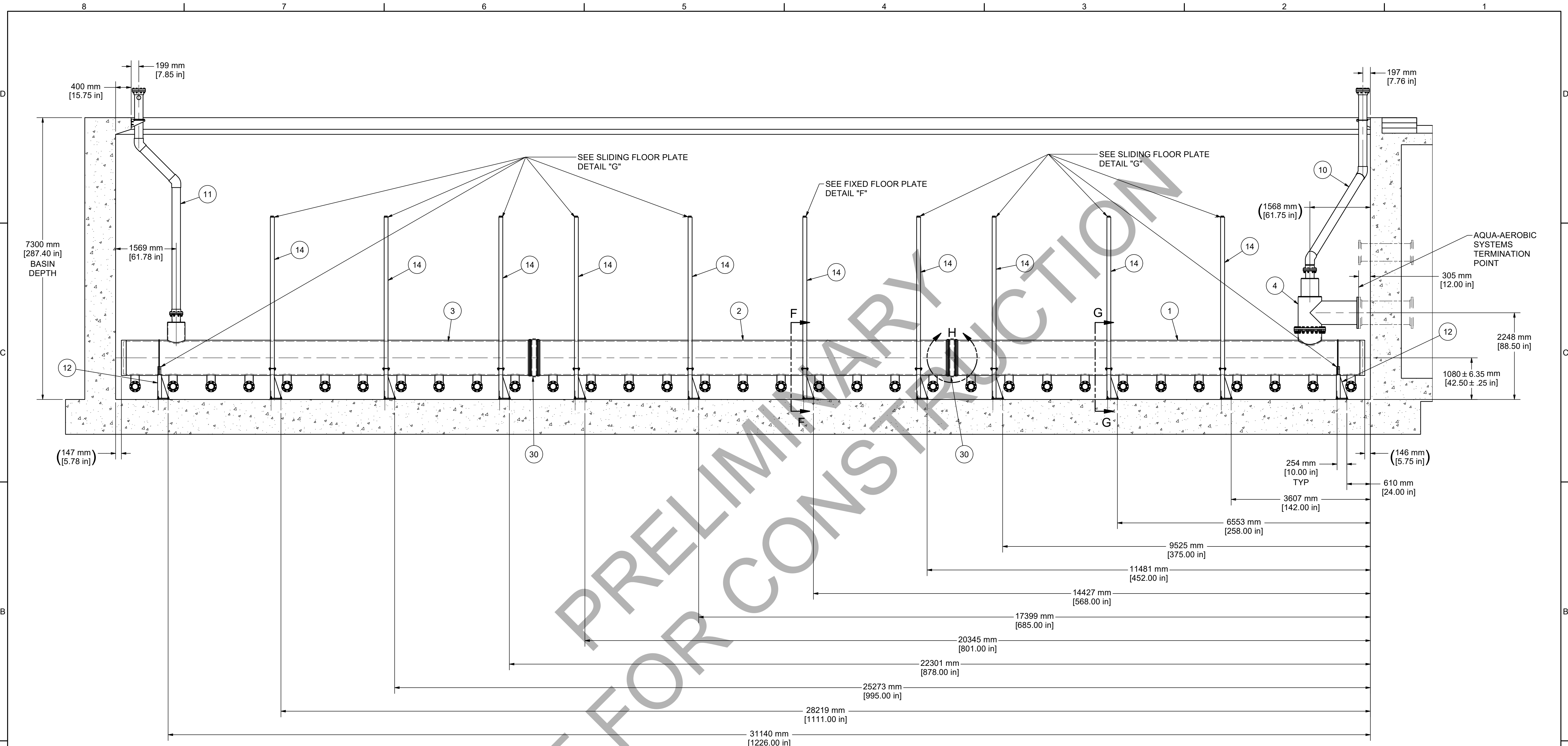
**COMPONENT WEIGHTS:**

- INFLUENT HEADER ASSY, 36" X 24", INLET END: 887 KG [1956 LB]
- INFLUENT HEADER ASSY, 36", MID: 848 KG [1870 LB]
- INFLUENT HEADER ASSY, 36", END: 883 KG [1947 LB]
- INFLUENT HEADER ASSY, INLET, 24": 87 KG [192 LB]
- INFLUENT LATERAL ASSY, 6" X 3": 48 KG [106 LB]
- INFLUENT LATERAL VENT ASSY, CHANNEL SIDE, 1, AGS 1-2: 17 KG [37 LB]
- INFLUENT LATERAL VENT ASSY, CHANNEL SIDE, 2, AGS 1-2: 17 KG [37 LB]
- INFLUENT LATERAL VENT ASSY, WALKWAY SIDE, 1, AGS 1-3: 16 KG [36 LB]
- INFLUENT LATERAL VENT ASSY, WALKWAY SIDE, 2, AGS 1-3: 17 KG [37 LB]
- INFLUENT HEADER VENT ASSY, 8", INLET END: 55 KG [121 LB]
- INFLUENT HEADER VENT ASSY, 8", WALKWAY END, AGS 1-3: 60 KG [131 LB]
- INFLUENT HEADER SUPPORT WELDMENT, 36": 63 KG [138 LB]
- INFLUENT HEADER SUPPORT WELDMENT, 36", LOWER: 71 KG [156 LB]
- INFLUENT HEADER SUPPORT WELDMENT, 36", 18" UPPER: 194 KG [428 LB]

NOT FOR CONSTRUCTION

**CONFIDENTIAL**

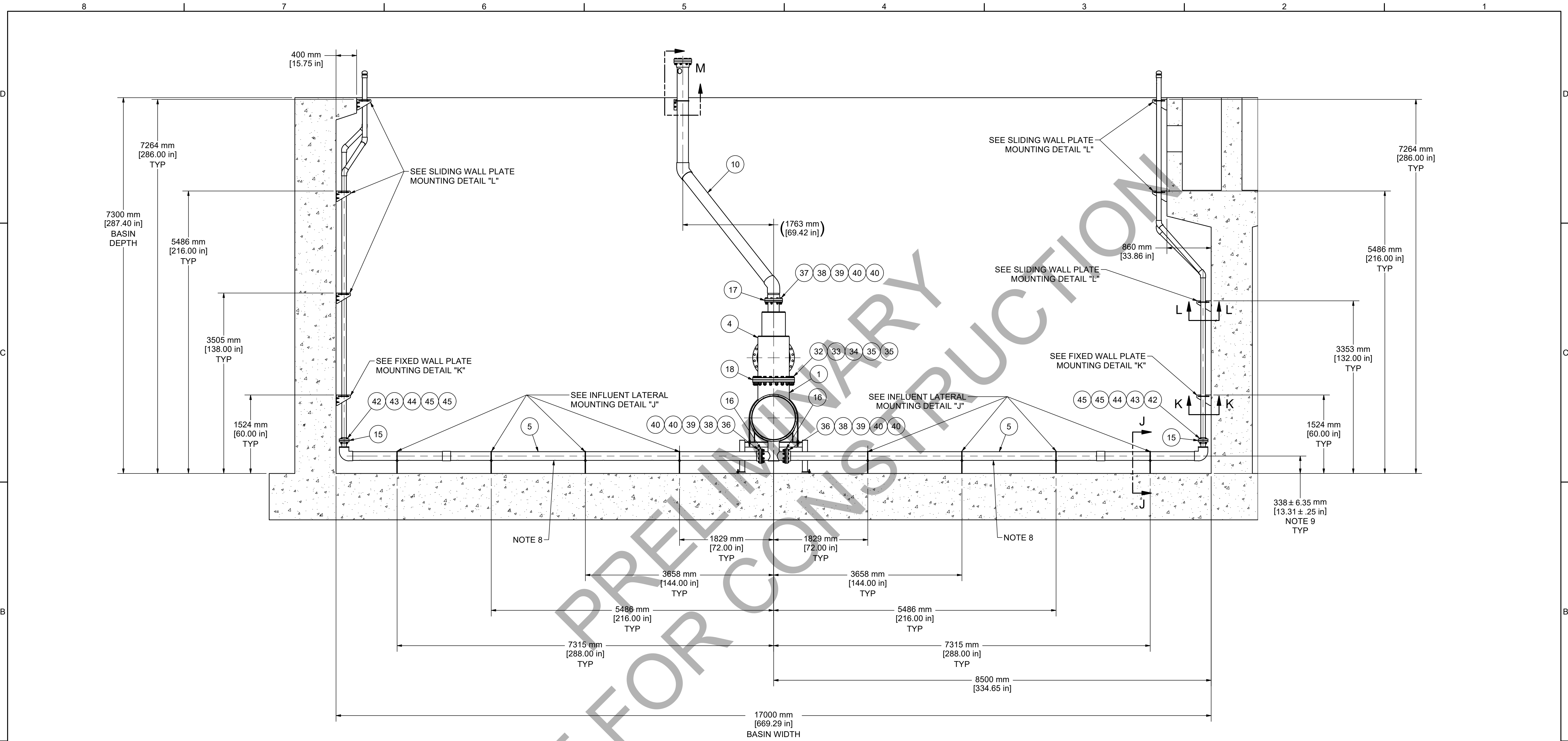
JOB NAME: NAPANEE WPCP UPGRADES		AQUA-AEROBIC SYSTEMS, INC. <small>A Mettler Company</small>	
JOB LOCATION: NAPANEE, ONTARIO, CANADA		<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES</small> <small>FRACTIONAL DIMENSIONS ±1/16</small> <small>ALL TWO PLACE DECIMALS ±0.010</small> <small>ALL THREE PLACE DECIMALS ±0.005</small> <small>ALL ANGLES ±1/2°</small>	
MATERIAL:		ANSI	
SIMILAR TO: 911689230005		DRAWN BY: JFM	
TYPE: AQUANEREDA		DATE: 2024-10-01	
REV	ERNECO	DATE	BY
A		2024-10-02	JFM
DRAWING NUMBER: 9704419A30005		SCALE: 1:78	
DRAWING NAME: INFLUENT PIPING INSTL, AGS 1		SHEET: 1 OF 7	



SECTION A-A

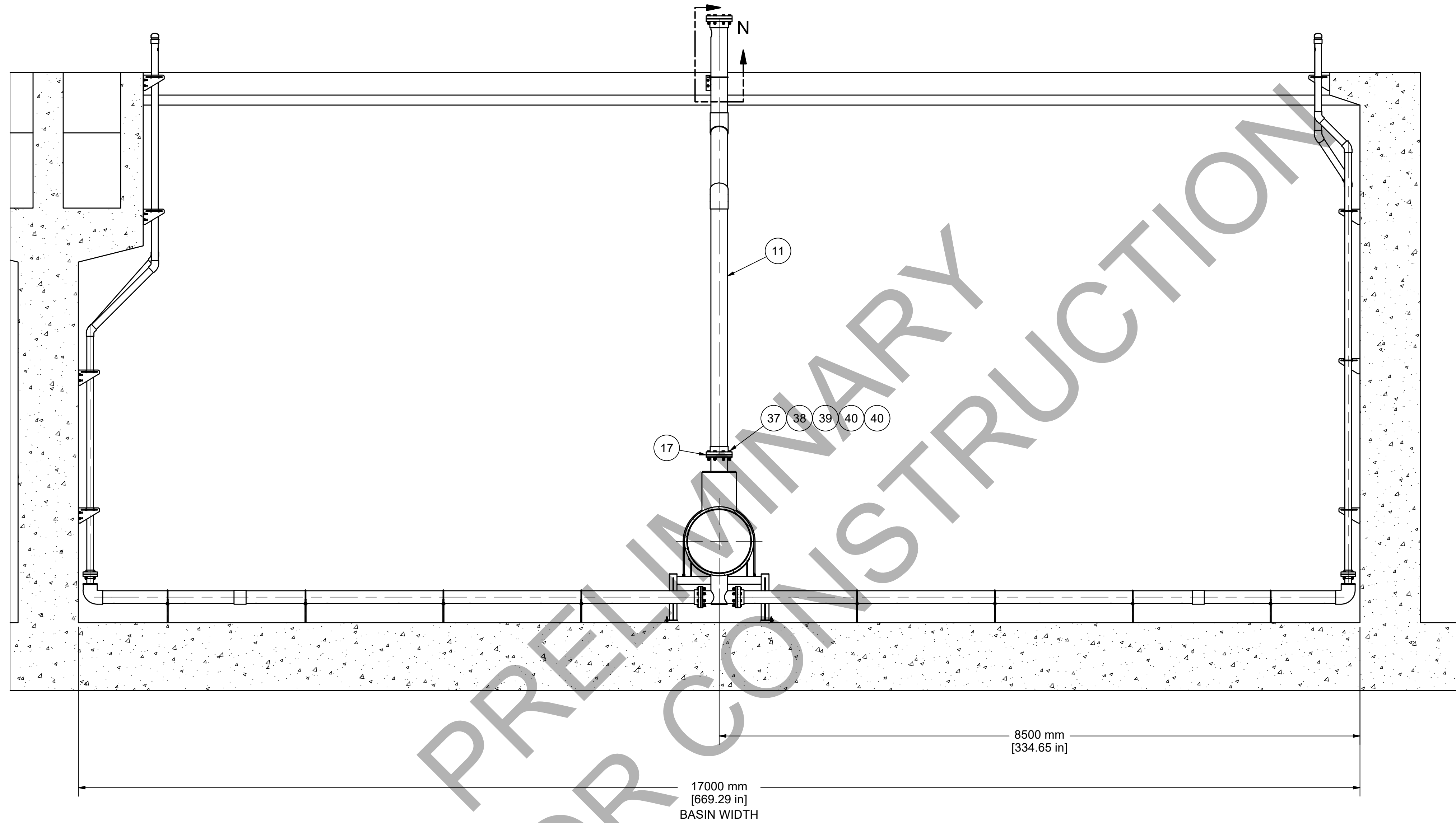
**CONFIDENTIAL**

JOB NAME: NAPANEE WPCP UPGRADES		AQUA-AEROBIC SYSTEMS, INC. A Mettler Company	
JOB LOCATION: NAPANEE, ONTARIO, CANADA		UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES	
		DO NOT SCALE DRAWING	
		FRACTIONAL DIMENSIONS ±.1/16" ANSI	
		ALL TWO PLACE DECIMALS ±.010"	
		ALL THREE PLACE DECIMALS ±.005"	
		ALL ANGLES ±.12°	
MATERIAL:			
SIMILAR TO: 911689230005			
TYPE: AQUANEREDA			
DRAWN BY: JFM		DATE: 2024-10-01	
REV: ERNECO		WEIGHT: 2 OF 7	
DATE: 2024-10-02		BY: JFM	
SUBMITTAL		DRAWING NUMBER: 9704419A30005	
INFLUENT PIPING INSTL, AGS 1		SCALE: 1:48	
		SIZE: D	



**CONFIDENTIAL**

JOB NAME: NAPANEE WPCP UPGRADES		AQUA-AEROBIC SYSTEMS, INC. A Metawater Company	
JOB LOCATION: NAPANEE, ONTARIO, CANADA		DO NOT SCALE DRAWING	
		UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES	
		FRACTIONAL DIMENSIONS ± 1/16"	
		ALL TWO PLACE DECIMALS ± 0.010"	
		ALL THREE PLACE DECIMALS ± 0.005"	
		ALL ANGLES ± 1/2°	
		ANSI	
MATERIAL:		SIMILAR TO: 911689230005	
		TYPE: AQUANEREDA	
REV	ERNECO	DATE	BY
A		2024-10-02	JFM
DRAWING NAME:		DRAWN BY: JFM	
INFLUENT PIPING INSTL, AGS 1		DATE: 2024-10-01	
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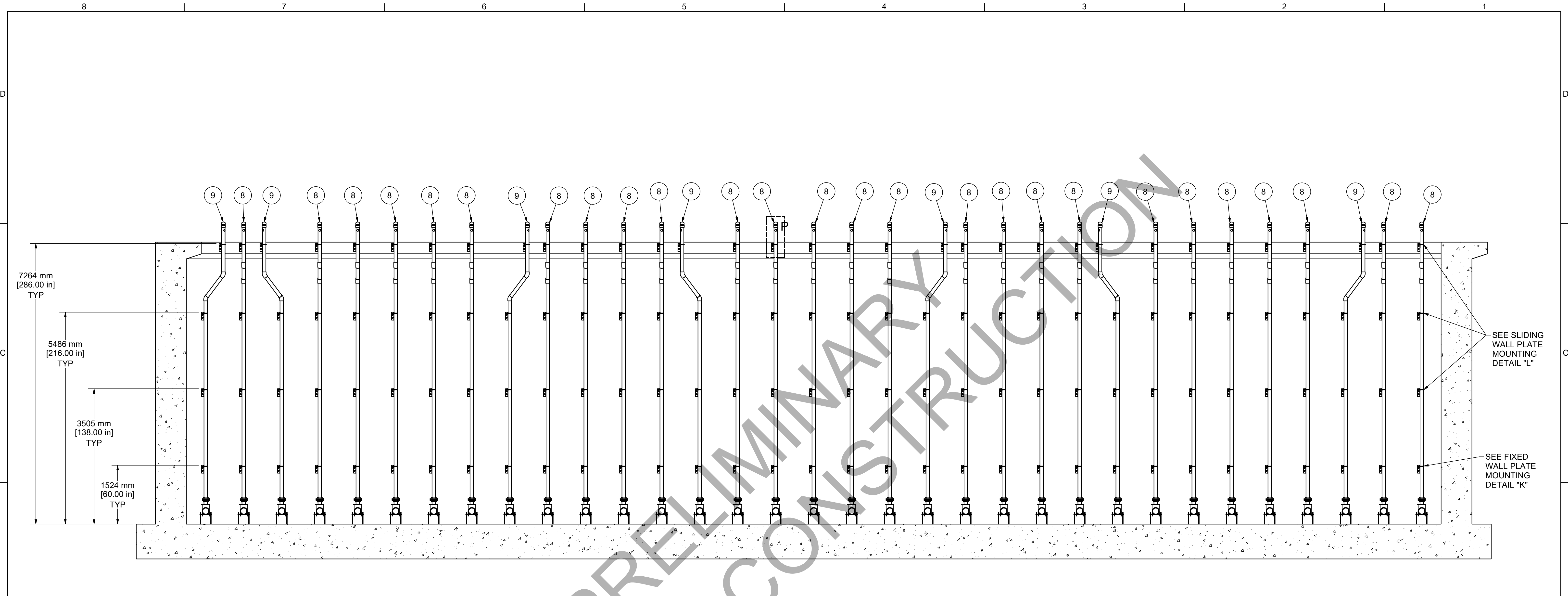


SECTION C-C

NOT FOR PRELIMINARY CONSTRUCTION

CONFIDENTIAL

JOB NAME: NAPANEE WPCP UPGRADES				<b>AQUA-AEROBIC SYSTEMS, INC.</b> <small>A Metawater Company</small>	
JOB LOCATION: NAPANEE, ONTARIO, CANADA					
<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES</small>				<small>DO NOT SCALE DRAWING</small> <small>FRACTIONAL DIMENSIONS ±: 1/16</small> <small>ALL TWO PLACE DECIMALS ±: 0.010</small> <small>ALL THREE PLACE DECIMALS ±: 0.005</small> <small>ALL ANGLES ±: 1/2°</small>	
MATERIAL:					
SIMILAR TO: 911689230005					
TYPE: AQUANEREDA				DRAWN BY: JFM	
DATE: 2024-10-01				DATE: 2024-10-01	
REV: ERNECO				DATE: 2024-10-02	
BY: JFM				SUBMITTAL	
REVISION DESCRIPTION				WEIGHT: 4 OF 7	
DRAWING NAME: INFLUENT PIPING INSTL, AGS 1				DRAWING NUMBER: 9704419A30005	
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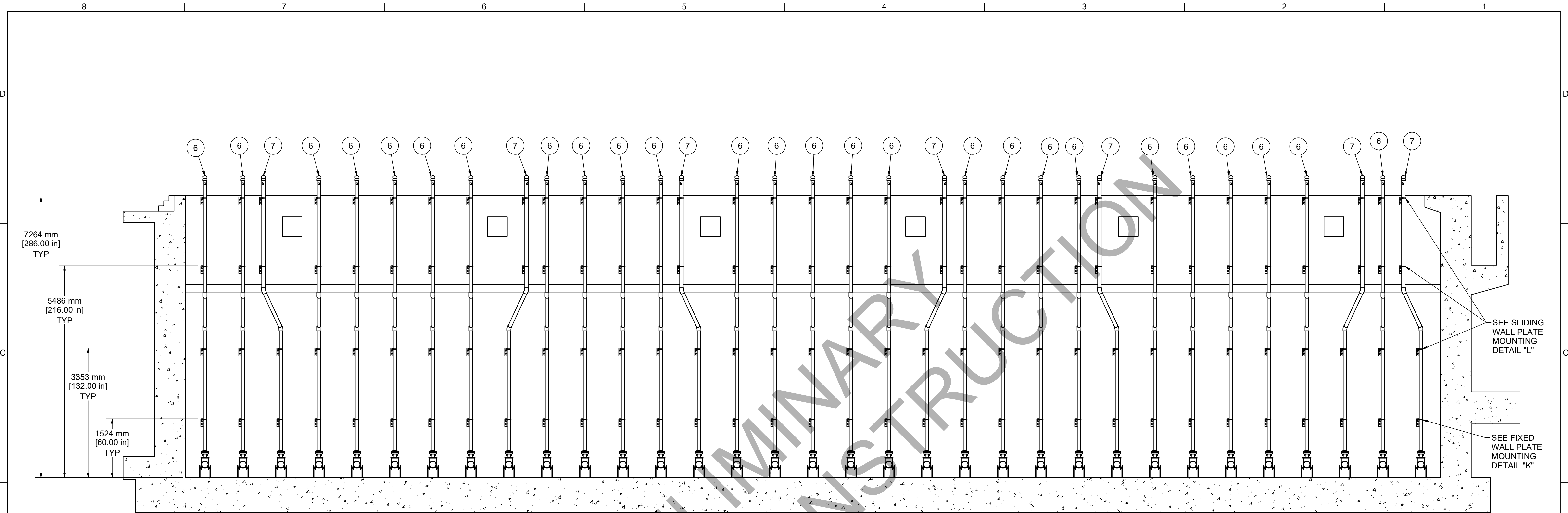


SECTION D-D  
VIEW TOWARDS WALKWAY SIDE OF BASIN

NOT FOR PRELIMINARY CONSTRUCTION

**CONFIDENTIAL**

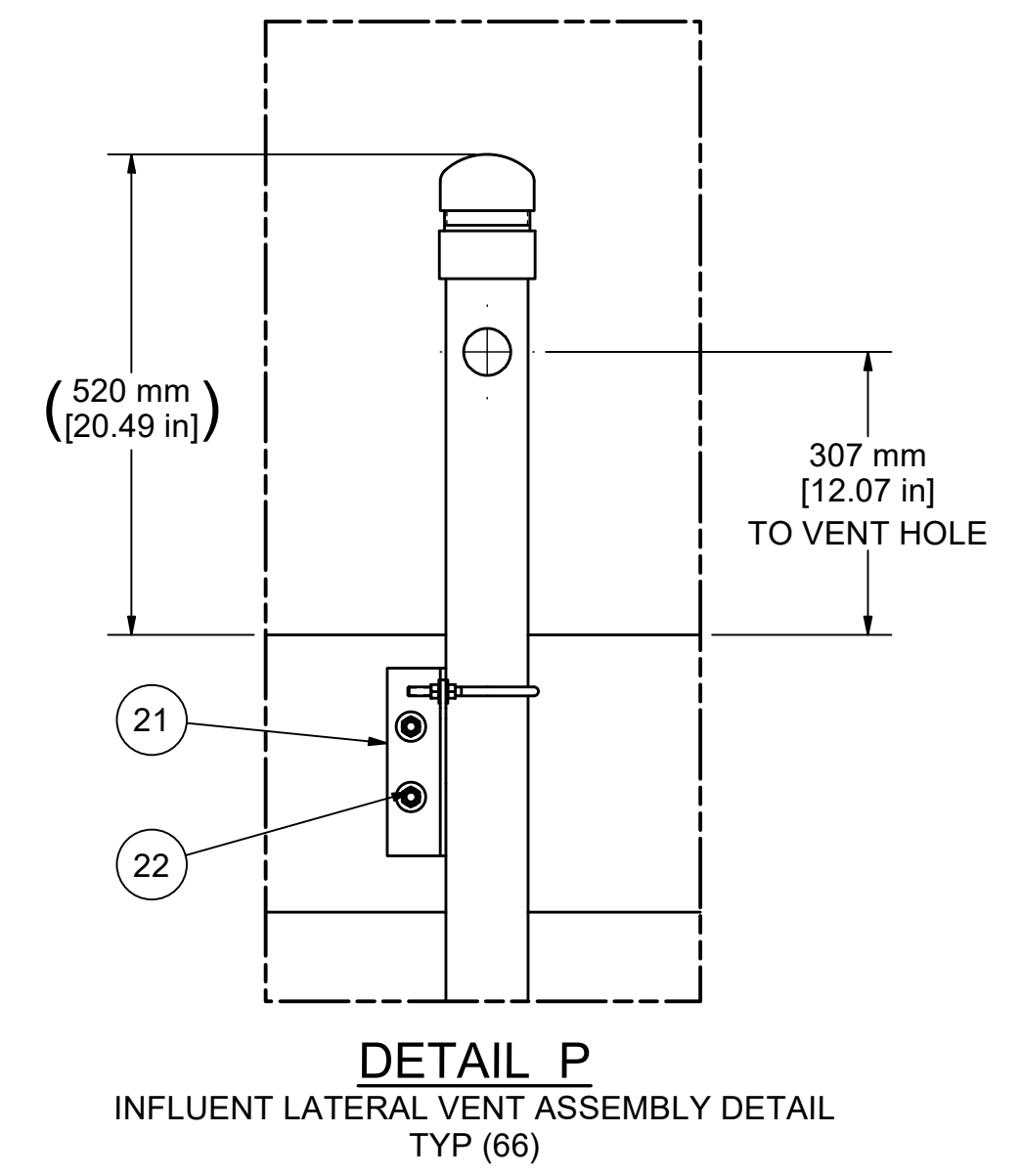
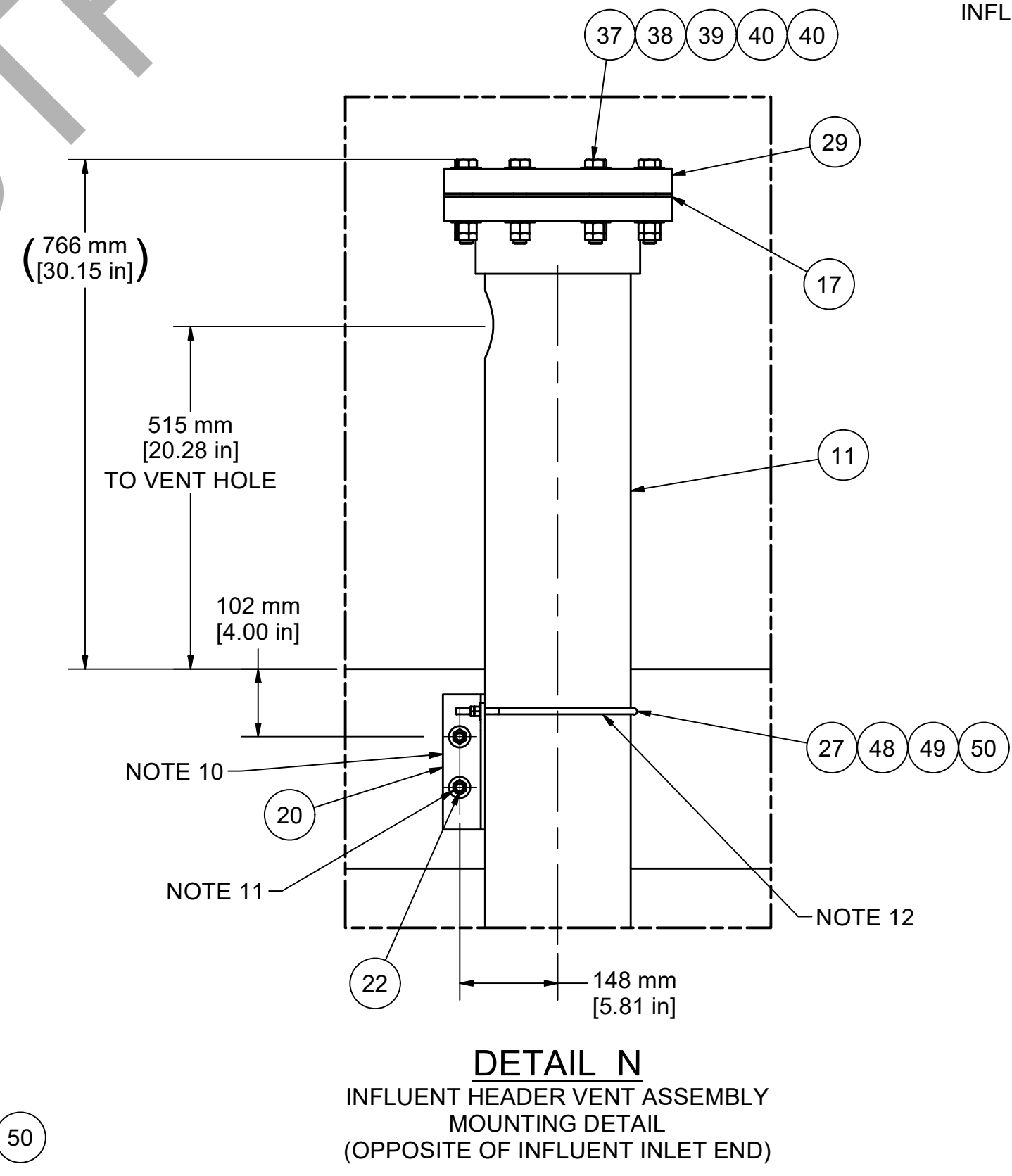
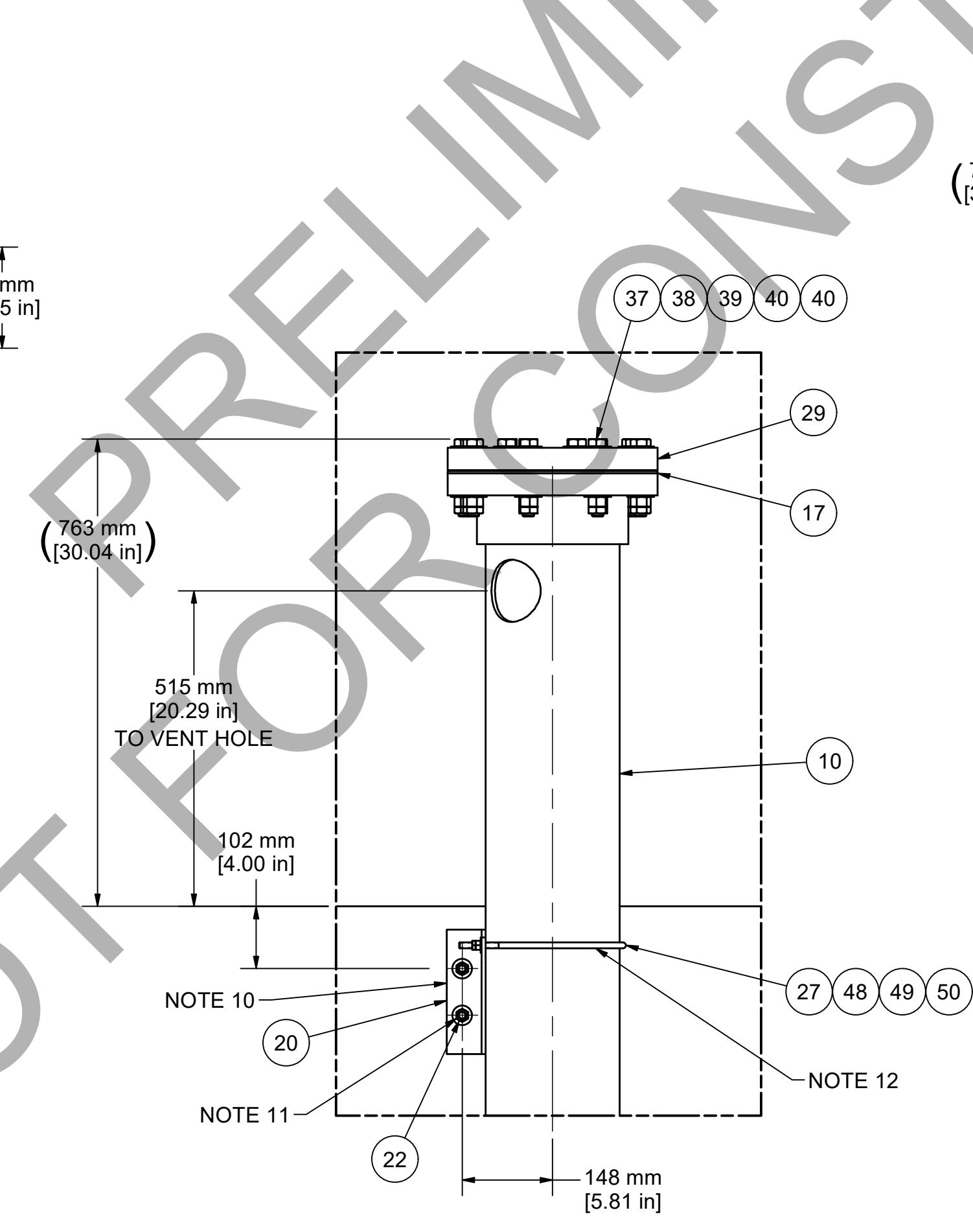
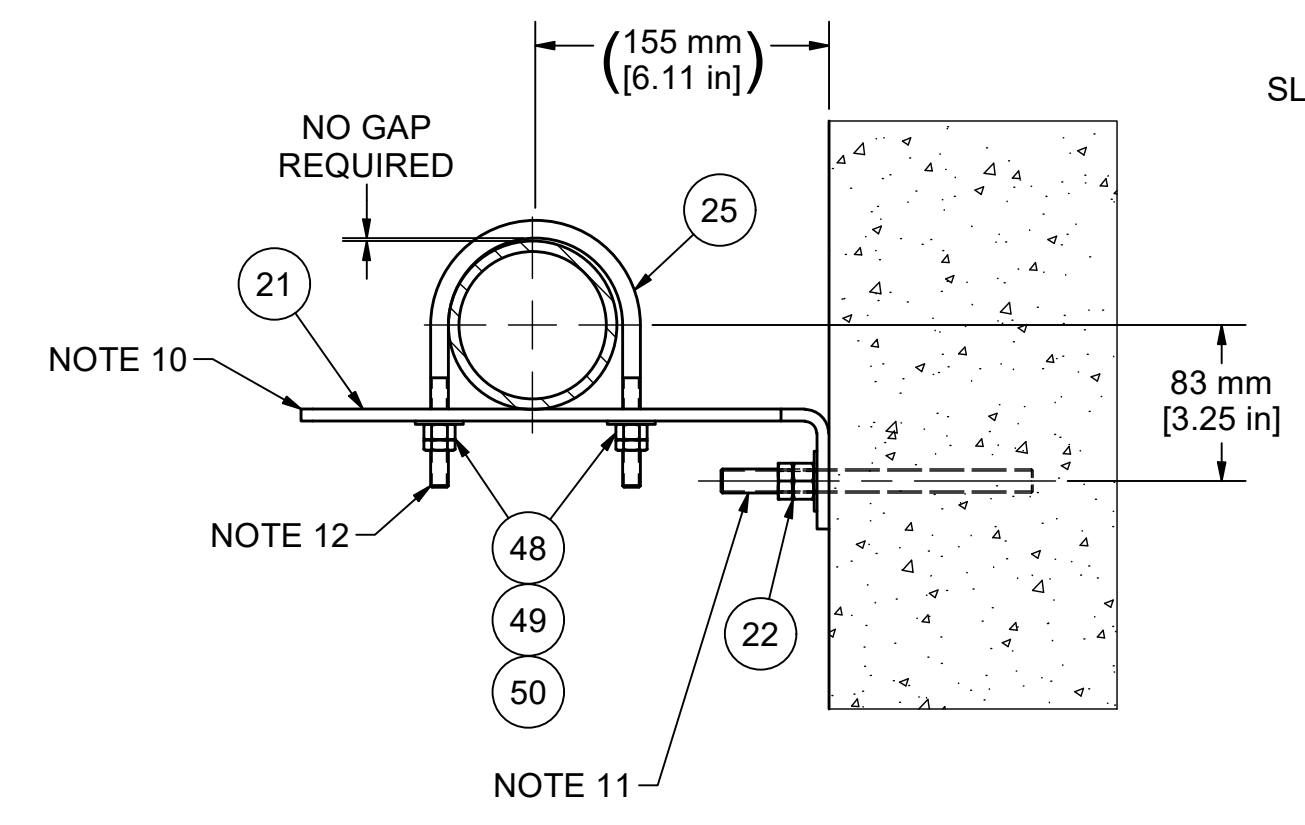
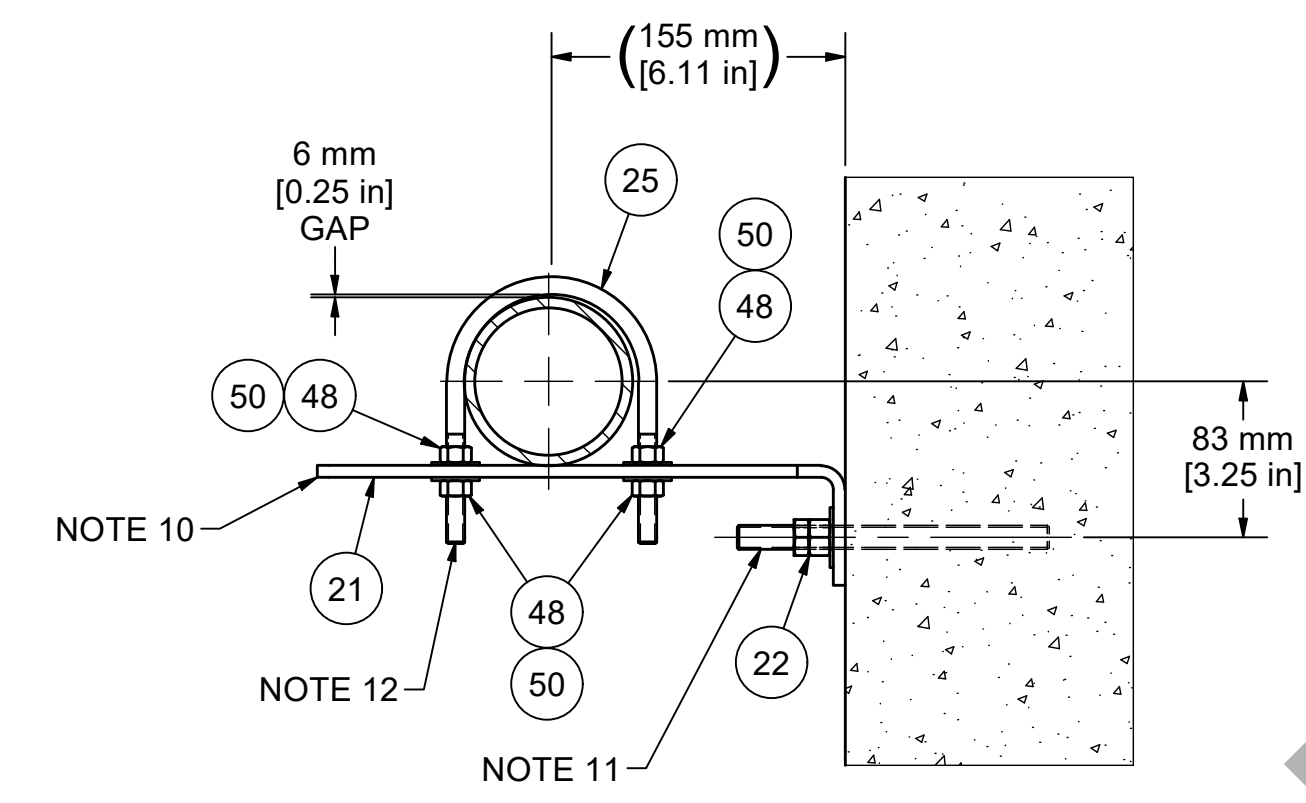
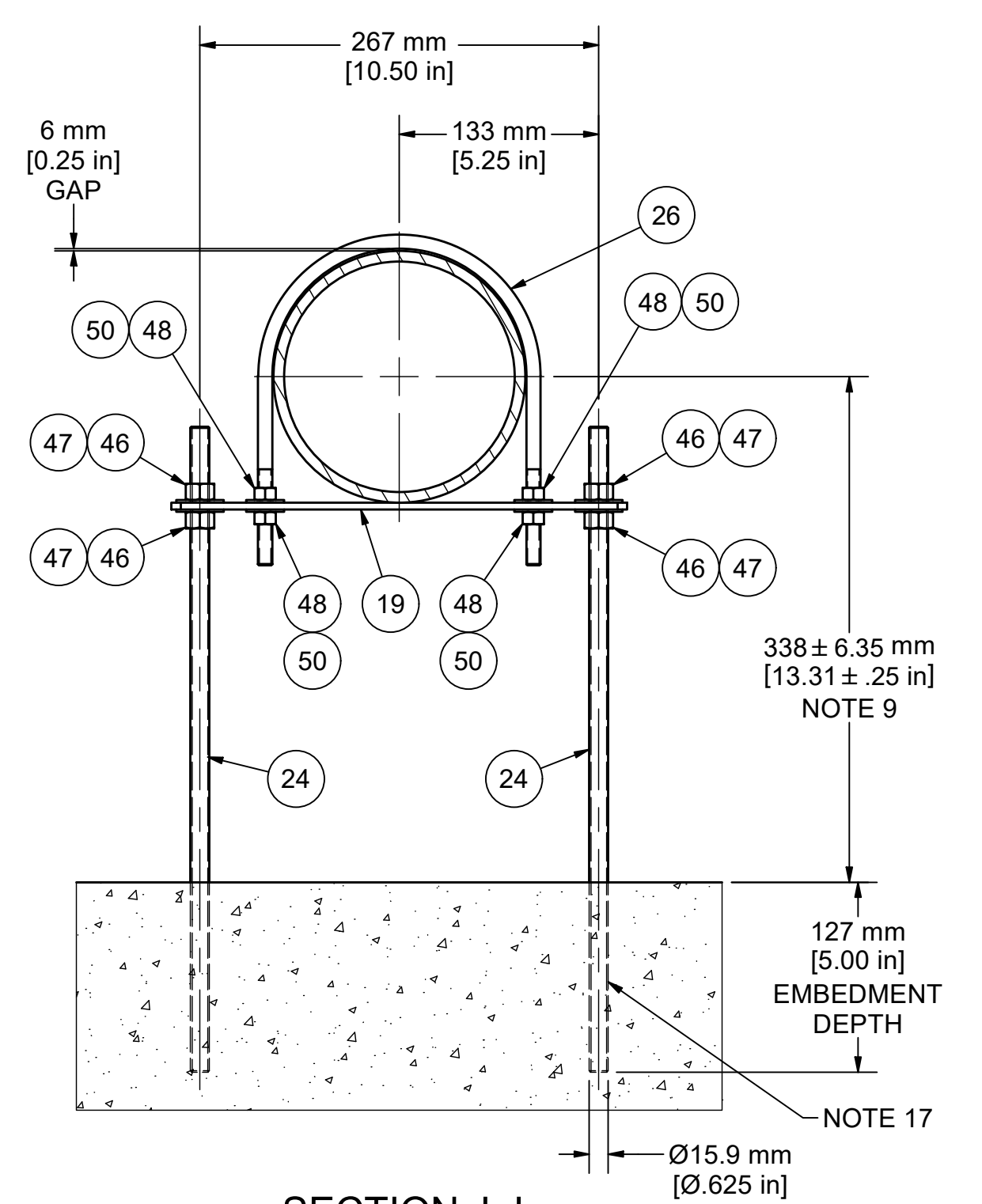
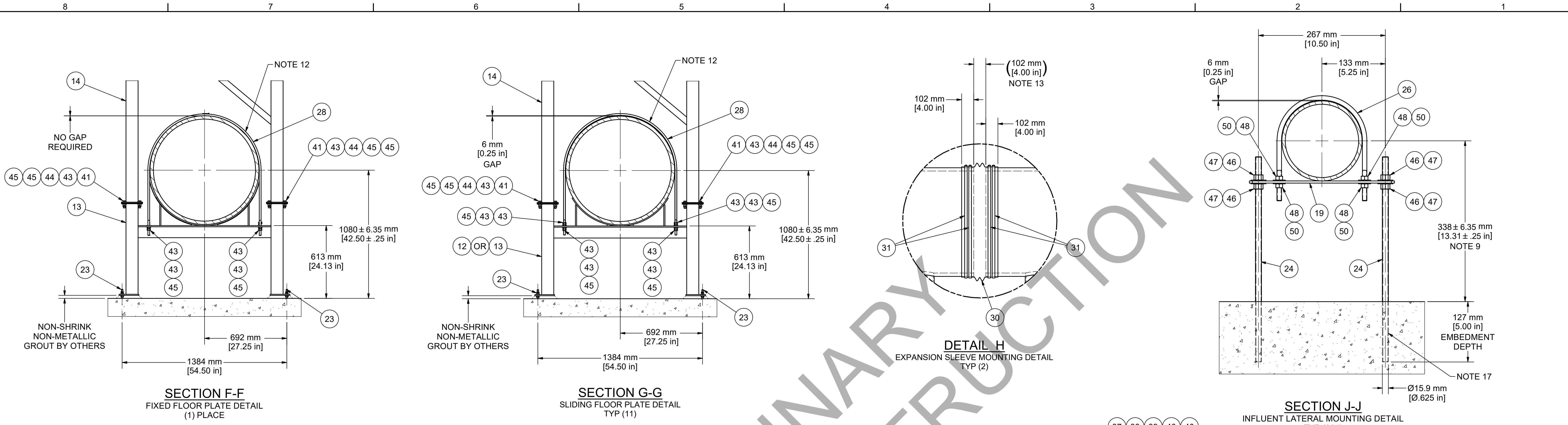
JOB NAME: NAPANEE WPCP UPGRADES		AQUA-AEROBIC SYSTEMS, INC. <small>A Metawater Company</small>	
JOB LOCATION: NAPANEE, ONTARIO, CANADA		UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES	
		DO NOT SCALE DRAWING	
		FRACTIONAL DIMENSIONS ±: 1/16 ALL TWO PLACE DECIMALS ±: 0.010 ALL THREE PLACE DECIMALS ±: 0.005 ALL ANGLES ±: 1/2°	
		ANSI	
		MATERIAL:	
		SIMILAR TO: 911689230005	
		TYPE: AQUANEREDA	
A		2024-10-02	JFM SUBMITTAL
REV	ERNIECO	DATE	BY
DRAWING NAME:		DRAWING NUMBER:	
INFLUENT PIPING INSTL, AGS 1		9704419A30005	
		SCALE:	SIZE:
		1:48	D



SECTION E-E  
VIEW TOWARDS EFFLUENT CHANNEL SIDE OF BASIN

CONFIDENTIAL

JOB NAME: NAPANEE WPCP UPGRADES				AQUA-AEROBIC SYSTEMS, INC. A Metawater Company		
JOB LOCATION: NAPANEE, ONTARIO, CANADA				UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES		
				DO NOT SCALE DRAWING		
				FRACTIONAL DIMENSIONS ± 1/16 ALL TWO PLACE DECIMALS ± 0.010 ALL THREE PLACE DECIMALS ± 0.005 ALL ANGLES ± 1/2°		
				ANSI		
				MATERIAL:		
				SIMILAR TO: 911689230005		
				TYPE: AQUANEREDA		
REV		DATE	BY	REVISION DESCRIPTION	DRAWN BY: JFM	DATE: 2024-10-01
A		2024-10-02	JFM	SUBMITTAL	WEIGHT:	SHEET: 6 OF 7
DRAWING NAME:				DRAWING NUMBER:		SCALE: SIZE:
INFLUENT PIPING INSTL, AGS 1				9704419A30005		1:48 D

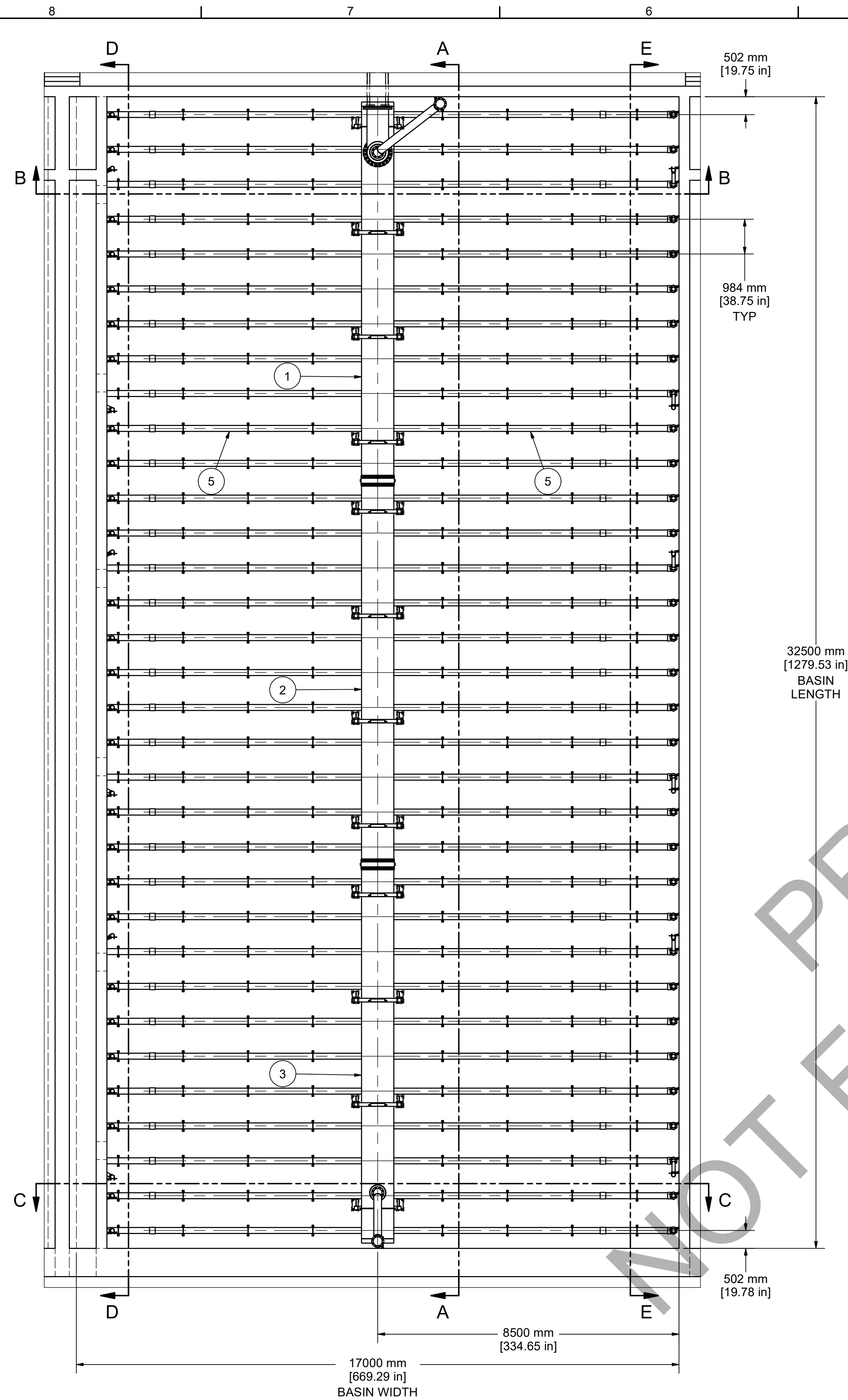


NOT FOR PRELIMINARY CONSTRUCTION

CONFIDENTIAL

JOB NAME: NAPANEE WPCP UPGRADES		<b>AQUA-AEROBIC SYSTEMS, INC.</b> <small>A Metawater Company</small>	
JOB LOCATION: NAPANEE, ONTARIO, CANADA			
MATERIAL:		DO NOT SCALE DRAWING <small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES</small> <small>FRACTIONAL DIMENSIONS ± 1/16</small> <small>ALL TWO PLACE DECIMALS ± 0.010</small> <small>ALL THREE PLACE DECIMALS ± 0.005</small> <small>ALL ANGLES ± 12"</small>	
SIMILAR TO: 911689230005		<small>ANSI</small>	
TYPE: AQUANEREDA		DRAWN BY: JFM      DATE: 2024-10-01	
REV: ERNECO      DATE: BY:      REVISION DESCRIPTION		WEIGHT:      SHEET: 7 OF 7	
DRAWING NAME: INFLUENT PIPING INSTL, AGS 1		DRAWING NUMBER: 9704419A30005      SCALE: 1:16      SIZE: D	





**NOTES:**

1. PLEASE REVIEW ALL INDIVIDUAL INSTALLATION DRAWINGS FOR ACTUAL DETAILS. REFER TO ASSEMBLY INSTRUCTIONS IN THE OPERATION AND MAINTENANCE MANUAL PRIOR TO INSTALLING THE EQUIPMENT.
2. IT IS RECOMMENDED THAT ALL THREADED FASTENERS MUST BE SECURED WITH A FULL NUT AND A JAM NUT OR TWO FULL NUTS.
3. ANTI-SEIZE LUBRICANT IS REQUIRED ON ALL STAINLESS STEEL FASTENERS, UNLESS OTHERWISE SPECIFIED.
4. ALL PIPING, GASKETS, HARDWARE AND PIPE SUPPORTS BEYOND AQUA-AEROBIC SYSTEMS TERMINATION FLANGE HAVE BEEN SHOWN FOR REFERENCE ONLY AND TO BE SUPPLIED AND INSTALLED BY OTHERS.
5. ALL WALKWAYS / PLATFORMS HAVE BEEN SHOWN FOR REFERENCE ONLY AND TO BE SUPPLIED AND INSTALLED BY OTHERS.
6. OVERFLOWS ARE RECOMMENDED WITHIN ALL BASINS.
7. TORQUE ALL FASTENERS PER ES-1057, UNLESS OTHERWISE SPECIFIED.
8. INFLUENT LATERAL PIPES MUST BE MOUNTED WITH THE ORIFICE HOLES POINTED STRAIGHT DOWN WITHIN +/- 1°. A MARK HAS BEEN MADE AT EACH END OF THE PIPE TO AID IN ALIGNMENT. THE SUPPORT BRACKETS MUST NOT COVER THE ORIFICES.
9. ALL INFLUENT LATERAL PIPES MUST BE HELD ON THE SAME CENTERLINE ELEVATION WITHIN +/- 1/4" TO MAINTAIN UNIFORM DISTRIBUTION.
10. USE VENT PIPE SUPPORT BRACKETS AS A TEMPLATE TO MARK AND DRILL FOR ADHESIVE ANCHORS.
11. REFER TO ADHESIVE ANCHOR DRAWING AND O&M MANUAL FOR INSTALLATION INSTRUCTIONS.
12. FOR ALL U-BOLT CLAMPS: SPIN FULL NUT UNTIL CLAMP IS SNUG AND THEN TURN THE FIRST FULL NUT AN ADDITIONAL 1/2 TURN. LOCK WITH JAM OR FULL NUT AGAINST FIRST FULL NUT PER TORQUE SPECIFIED IN ES-1057.
13. THE FIXED END OF THE HEADER SECTION MUST BE LOCATED RELATIVE TO THE INFLUENT WALL, NOT THE PRECEDING LATERAL ROW. PIPES WILL THEN BE INSERTED EQUALLY INTO THE COUPLING.
14. IT IS PREFERRED TO ERECT THE HEADER PIPING WHEN PIPE TEMPERATURES ARE AS CLOSE TO 70°F, AS POSSIBLE.
15. FOR SUMMER INSTALLATIONS, THE PIPES CAN BE COOLED WITH WATER, SHADE OR INSTALLED EARLY IN THE MORNING. PIPES SHOULD NOT EXCEED 122°F SURFACE TEMPERATURE DURING INSTALLATION.
16. FOR WINTER INSTALLATIONS, INSTALLATION OF THE JOINTS SHOULD TAKE PLACE AT THE WARMEST TIME OF THE DAY. WHEN THE TEMPERATURE IS LESS THAN 18°F AND IF LOW POWER HEATING BLANKETS OR DARK COLORED TARPS ARE AVAILABLE, THEY SHOULD BE USED TO WARM THE PIPES PRIOR TO CENTERING THE EXPANSION JOINT OVER THE GAP.
17. FILL HOLE 1/2 TO 2/3 FULL OF ADHESIVE COMPOUND. TWISTING SLIGHTLY, INSERT THREADED ROD TO EMBEDMENT DEPTH AS SHOWN. DO NOT DISTURB THREADED ROD UNTIL CURE TIME HAS ELAPSED. REFER TO SECTION 4 IN THE OPERATION AND MAINTENANCE MANUAL FOR ADHESIVE CURE TIME.

**COMPONENT WEIGHTS:**

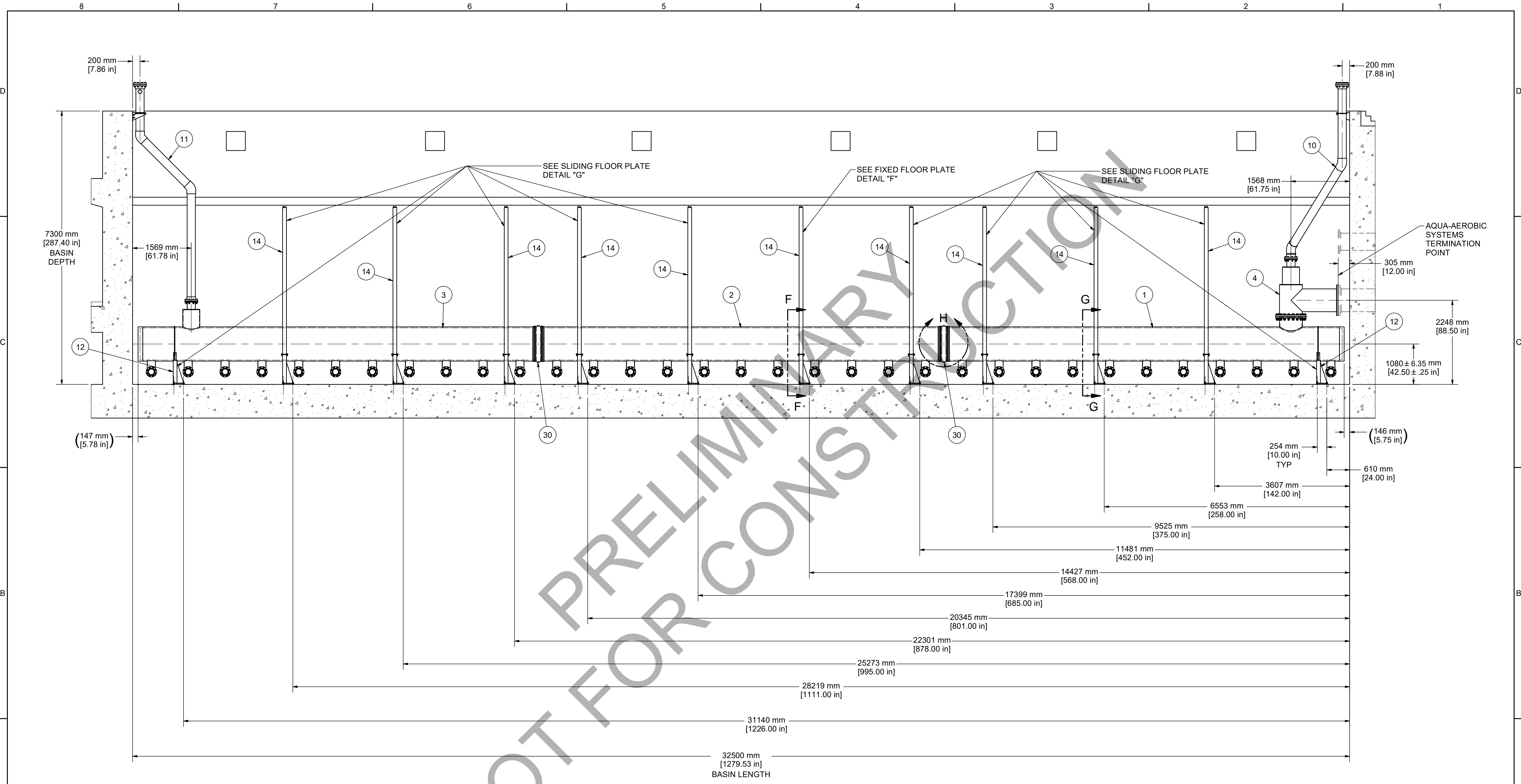
- INFLUENT HEADER ASSY, 36" X 24", INLET END: 887 KG [1956 LB]
- INFLUENT HEADER ASSY, 36", MID: 848 KG [1870 LB]
- INFLUENT HEADER ASSY, 36", END: 883 KG [1947 LB]
- INFLUENT HEADER ASSY, INLET, 24": 87 KG [192 LB]
- INFLUENT LATERAL ASSY, 6" X 3": 48 KG [106 LB]
- INFLUENT LATERAL VENT ASSY, CHANNEL SIDE, 1, AGS 1-2: 17 KG [37 LB]
- INFLUENT LATERAL VENT ASSY, CHANNEL SIDE, 2, AGS 1-2: 17 KG [37 LB]
- INFLUENT LATERAL VENT ASSY, WALKWAY SIDE, 1, AGS 2: 16 KG [36 LB]
- INFLUENT LATERAL VENT ASSY, WALKWAY SIDE, 2, AGS 2: 17 KG [37 LB]
- INFLUENT HEADER VENT ASSY, 8", INLET END: 55 KG [121 LB]
- INFLUENT HEADER VENT ASSY, 8", END, AGS 2: 60 KG [131 LB]
- INFLUENT HEADER SUPPORT WELDMENT, 36": 63 KG [138 LB]
- INFLUENT HEADER SUPPORT WELDMENT, 36", LOWER: 71 KG [156 LB]
- INFLUENT HEADER SUPPORT WELDMENT, 36", 18" UPPER: 194 KG [428 LB]

32500 mm  
[1279.53 in]  
BASIN  
LENGTH

NOT FOR CONSTRUCTION

**CONFIDENTIAL**

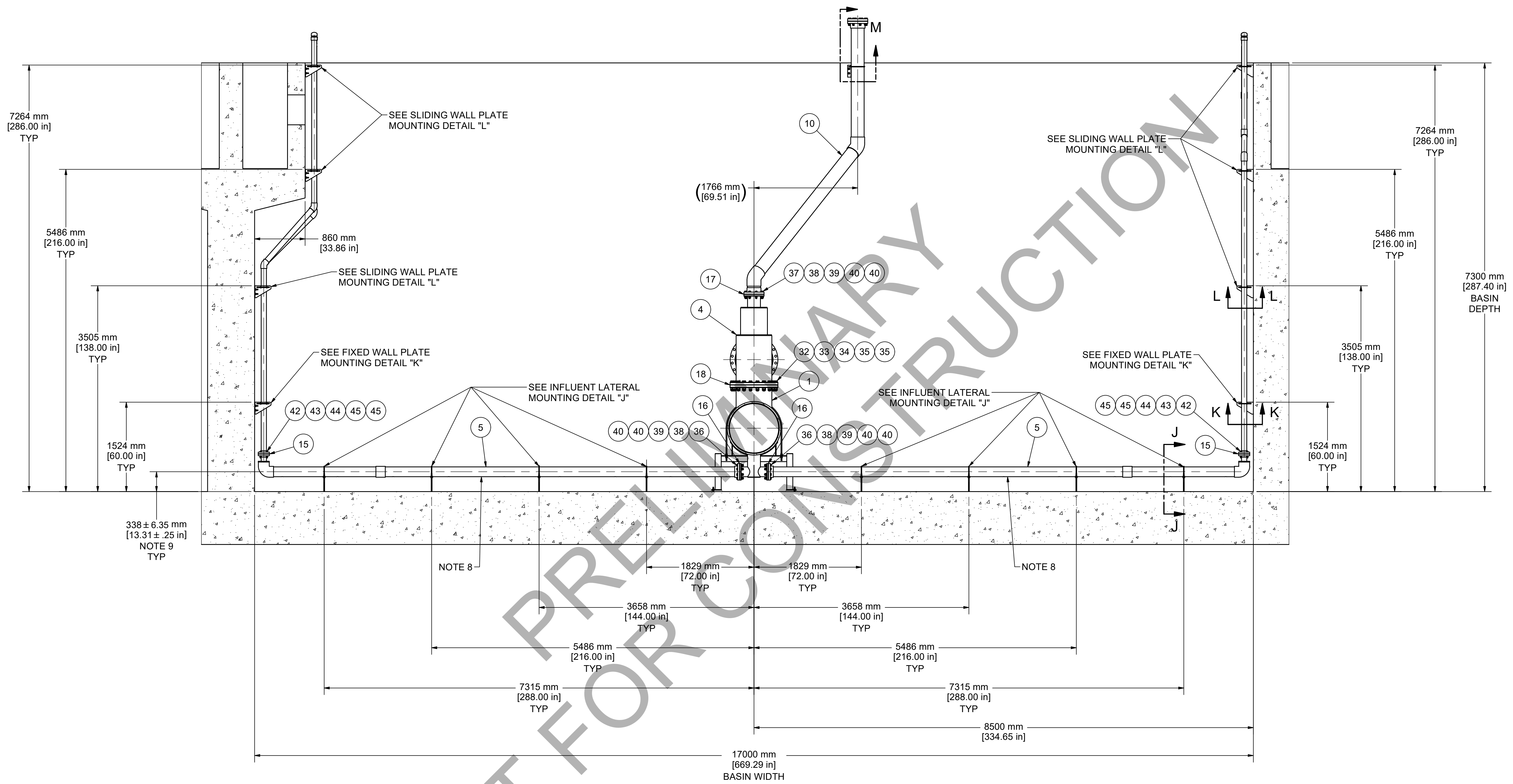
JOB NAME: NAPANEE WPCP UPGRADES		AQUA-AEROBIC SYSTEMS, INC. <small>A Mettler Company</small>	
JOB LOCATION: NAPANEE, ONTARIO, CANADA		DO NOT SCALE DRAWING	
		UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES	
		FRACTIONAL DIMENSIONS: +/- 1/16	
		ALL TWO PLACE DECIMALS: +/- 0.010	
		ALL THREE PLACE DECIMALS: +/- 0.005	
		ALL ANGLES: +/- 1/2"	
		ANSI	
MATERIAL:		SIMILAR TO: 911689230005	
TYPE: AQUANEREDA		DRAWN BY: JFM	
DATE: 2024-10-03		DATE: 2024-10-02	
BY: JFM		SHEET: 1 OF 7	
REVISION DESCRIPTION		DRAWING NUMBER: 9704419A30006	
INFLUENT PIPING INSTL, AGS 2		SCALE: 1:78	
		SIZE: D	



SECTION A-A

CONFIDENTIAL

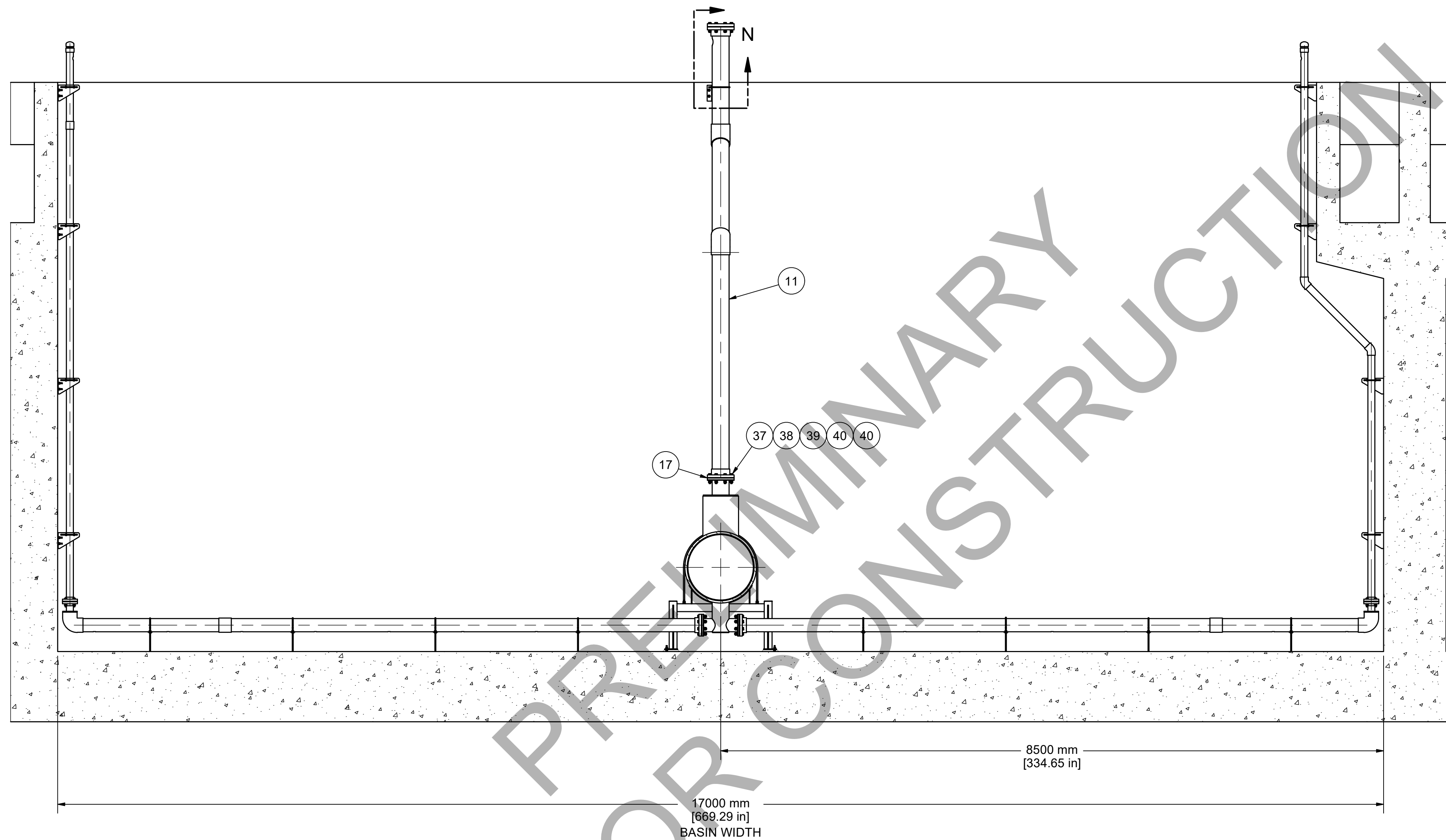
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JOB LOCATION: NAPANEE, ONTARIO, CANADA		UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES	
		DO NOT SCALE DRAWING	
		FRACTIONAL DIMENSIONS ±.1/16" ANSI	
		ALL TWO PLACE DECIMALS ±.010"	
		ALL THREE PLACE DECIMALS ±.005"	
		ALL ANGLES ±.12°	
MATERIAL:		SIMILAR TO: 911689230005	
TYPE: AQUANEREDA		DRAWN BY: JFM	
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REV	ERNECO	DATE	BY
A		2024-10-03	JFM
DRAWING NAME:		DRAWING NUMBER:	
INFLUENT PIPING INSTL, AGS 2		9704419A30006	
SCALE:		SIZE:	
1:48		D	



SECTION B-B

CONFIDENTIAL

JOB NAME: NAPANEE WPCP UPGRADES		AQUA-AEROBIC SYSTEMS, INC. A Metawater Company	
JOB LOCATION: NAPANEE, ONTARIO, CANADA		UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES	
		DO NOT SCALE DRAWING	
		FRACTIONAL DIMENSIONS ±: 1/16 ALL TWO PLACE DECIMALS ±: 0.010 ALL THREE PLACE DECIMALS ±: 0.005 ALL ANGLES ±: 1/2°	
		ANSI	
MATERIAL:		SIMILAR TO: 911689230005	
		TYPE: AQUANEREDA	
A	2024-10-03	JFM	SUBMITTAL
REV	ERNECO	DATE	BY
DRAWING NAME:		DRAWN BY: JFM	
INFLUENT PIPING INSTL, AGS 2		DATE: 2024-10-02	
		WEIGHT: 3 OF 7	
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		SIZE: D	

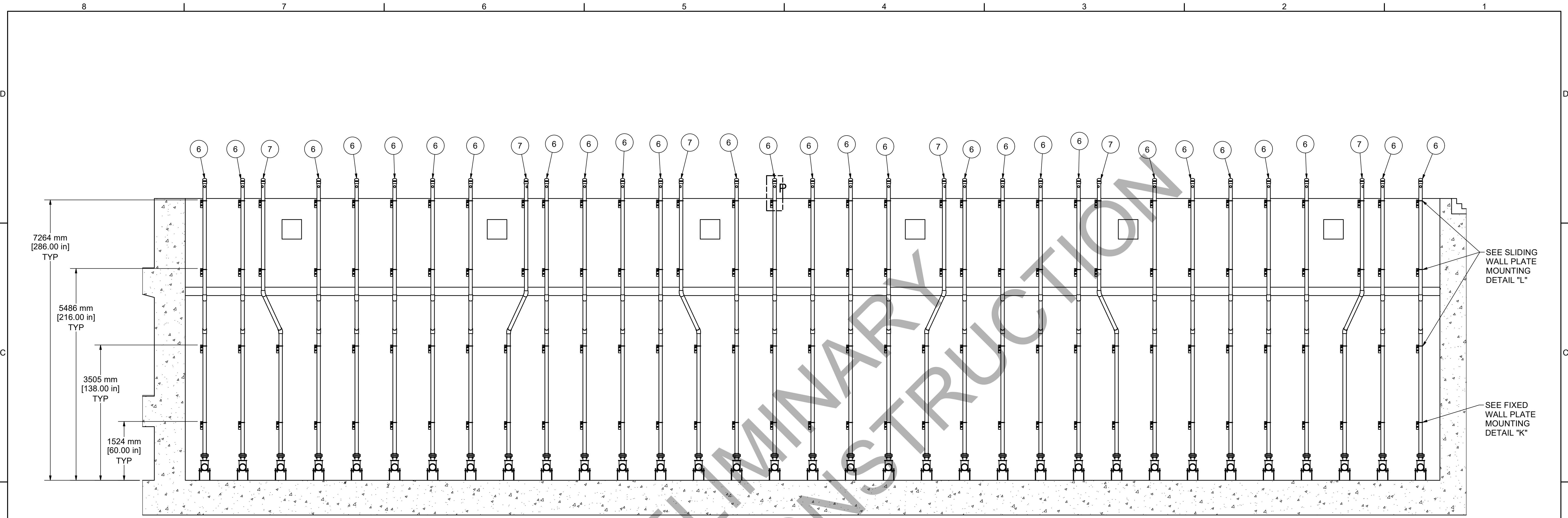


SECTION C-C

NOT FOR PRELIMINARY CONSTRUCTION



CONFIDENTIAL

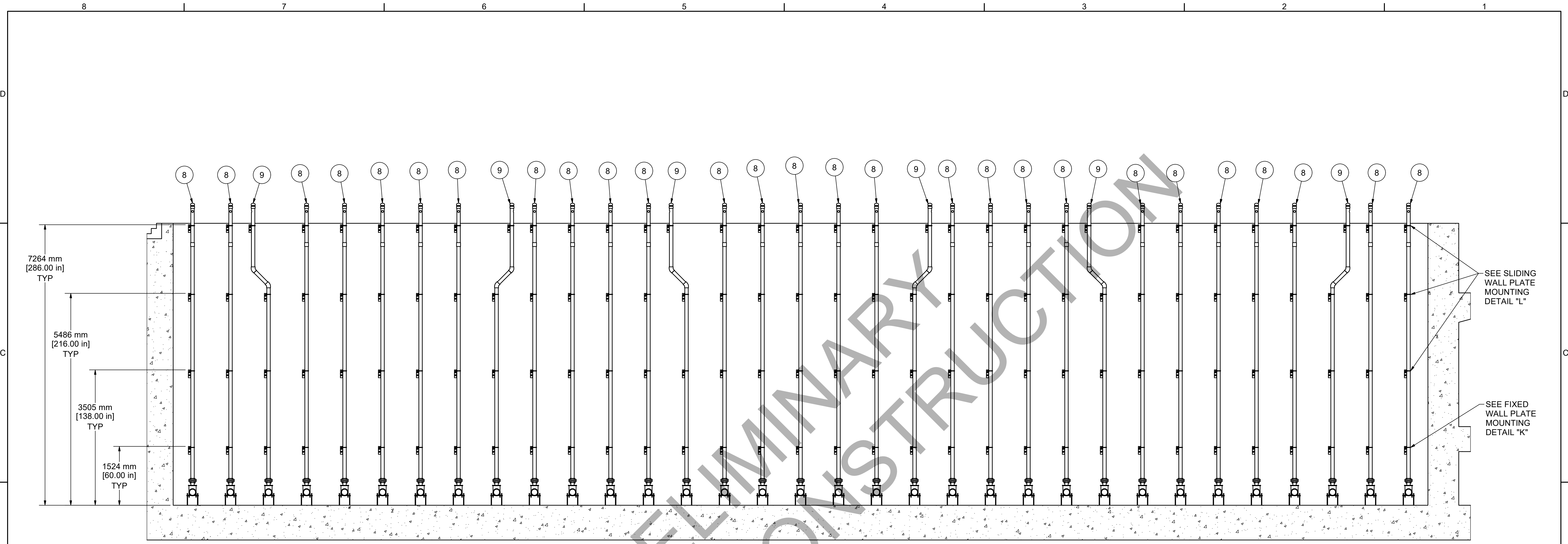
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JOB LOCATION: NAPANEE, ONTARIO, CANADA					
<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES</small>				<small>DO NOT SCALE DRAWING</small> <small>FRACTIONAL DIMENSIONS ±: 1/16</small> <small>ALL TWO PLACE DECIMALS ±: 0.010</small> <small>ALL THREE PLACE DECIMALS ±: 0.005</small> <small>ALL ANGLES ±: 1/2°</small>	
MATERIAL:					
SIMILAR TO: 911689230005					
TYPE: AQUANEREDA				DRAWN BY: JFM	
DATE: 2024-10-03				DATE: 2024-10-02	
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DATE: 2024-10-03				REVISION DESCRIPTION: SUBMITTAL	
WEIGHT: 4				SHEET: 4 OF 7	
DRAWING NAME: INFLUENT PIPING INSTL, AGS 2				DRAWING NUMBER: 9704419A30006	
SCALE: 1:36				SIZE: D	



SECTION D-D  
VIEW TOWARDS EFFLUENT CHANNEL SIDE OF BASIN



CONFIDENTIAL

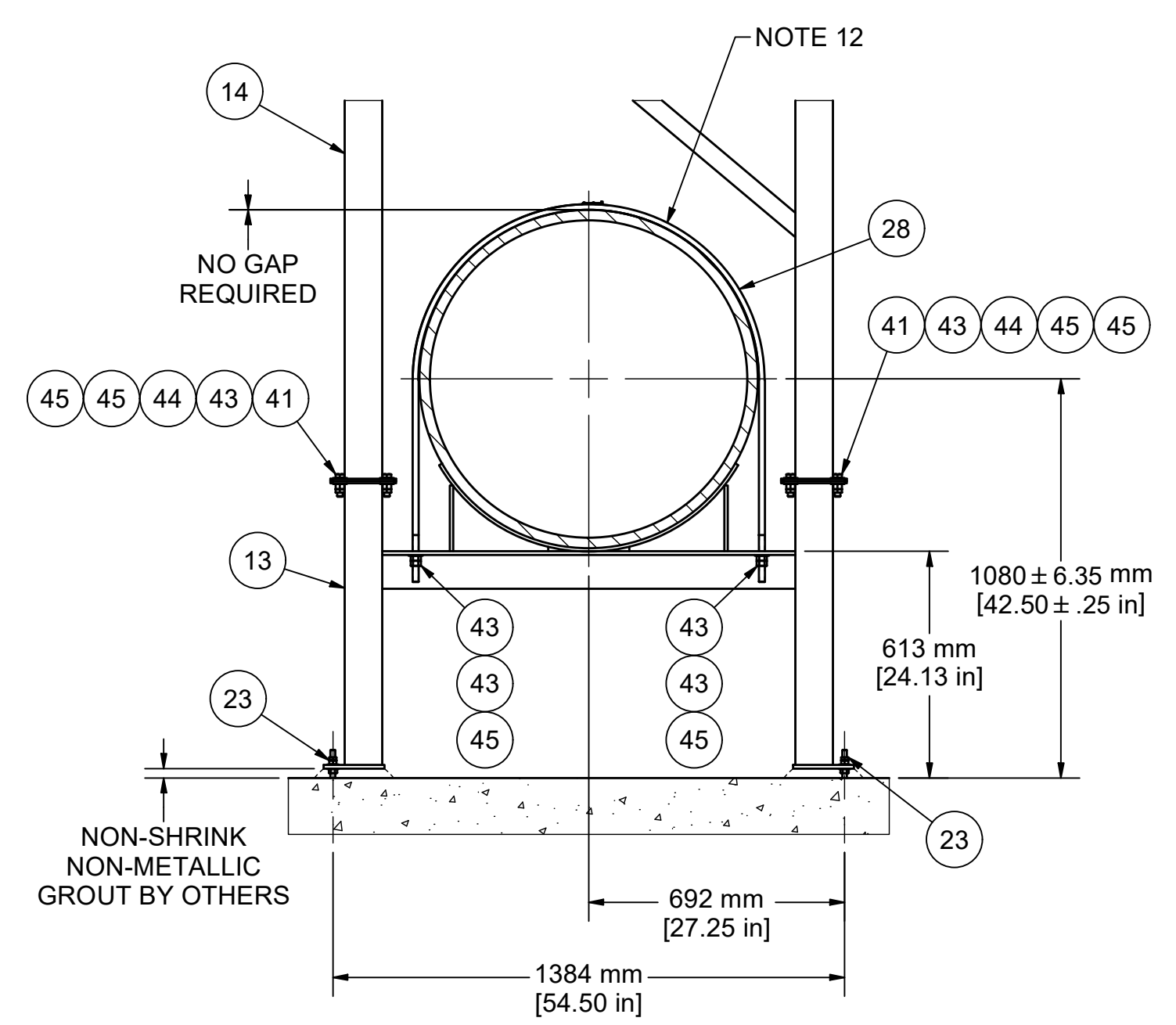
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JOB LOCATION: NAPANEE, ONTARIO, CANADA					
DO NOT SCALE DRAWING <small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES</small> <small>FRACTIONAL DIMENSIONS ±: 1/16</small> <small>ALL TWO PLACE DECIMALS ±: 0.010</small> <small>ALL THREE PLACE DECIMALS ±: 0.005</small> <small>ALL ANGLES ±: 1/2°</small>					
MATERIAL:				SIMILAR TO: 911689230005	
TYPE: AQUANEREDA				DRAWN BY: JFM	
REV: ERNECO				DATE: 2024-10-02	
DATE: 2024-10-03				BY: JFM	
SUBMITTAL				REVISION DESCRIPTION	
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SCALE: 1:48				SIZE: D	



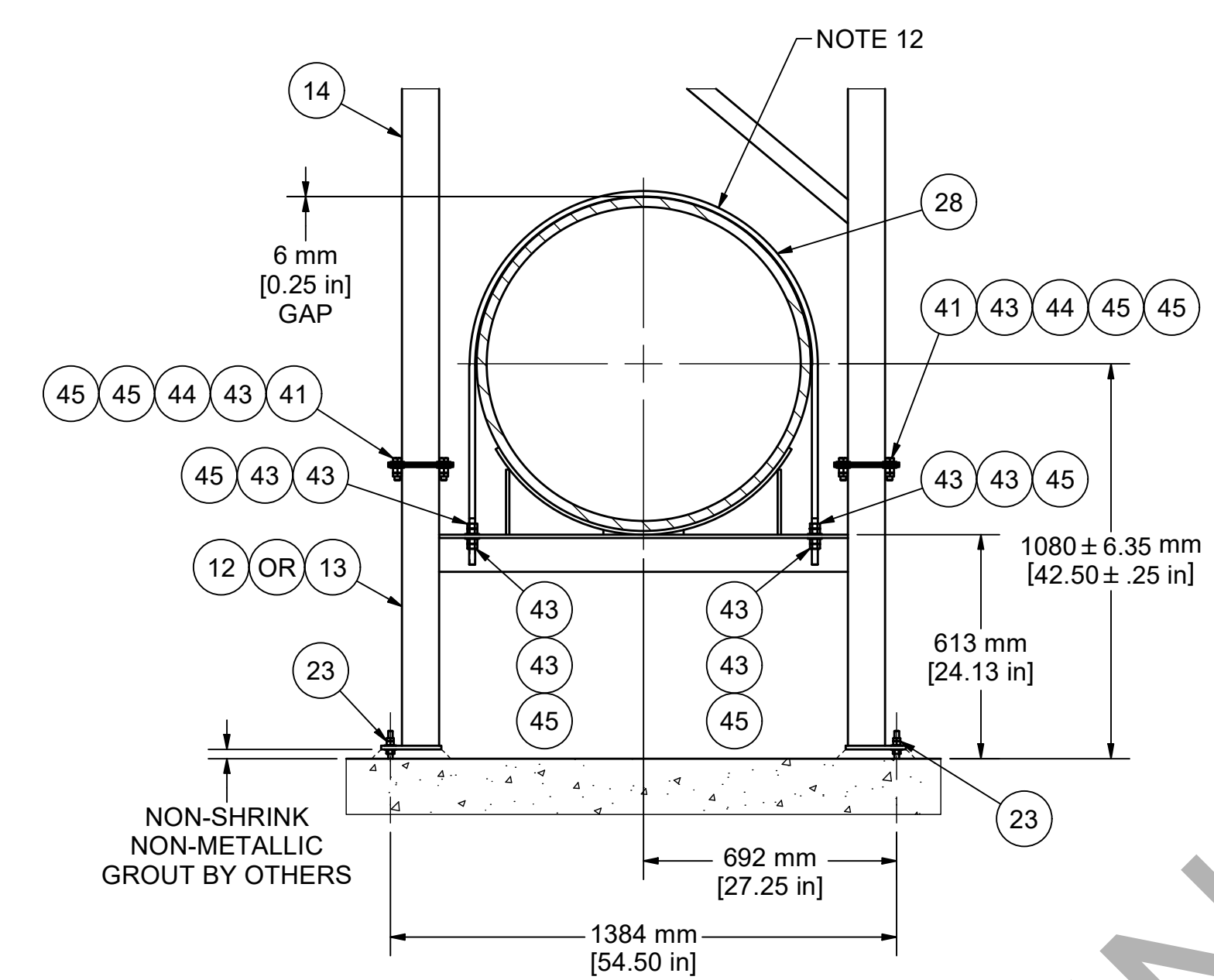
SECTION E-E  
VIEW TOWARDS STRAIGHT WALL SIDE OF BASIN

CONFIDENTIAL

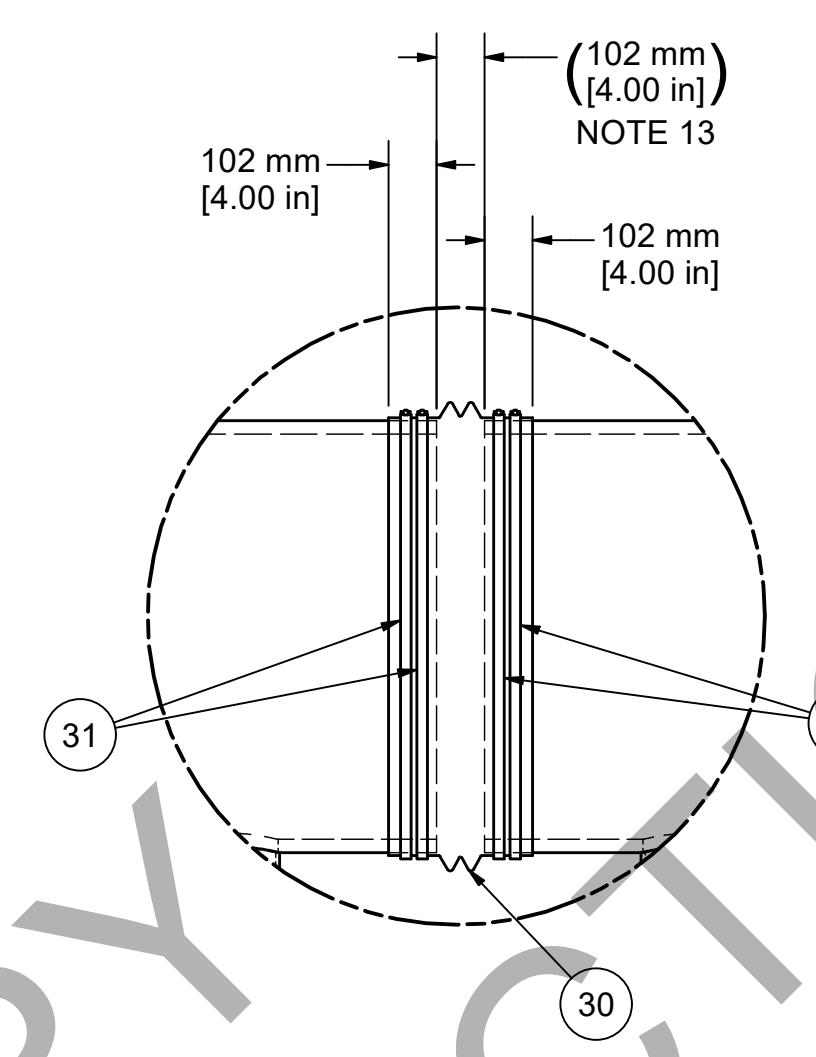
JOB NAME: NAPANEE WPCP UPGRADES				 AQUA-AEROBIC SYSTEMS, INC. <small>A Metawater Company</small>	
JOB LOCATION: NAPANEE, ONTARIO, CANADA					
DO NOT SCALE DRAWING <small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES</small> <small>FRACTIONAL DIMENSIONS ± 1/16</small> <small>ALL TWO PLACE DECIMALS ± 0.010</small> <small>ALL THREE PLACE DECIMALS ± 0.005</small> <small>ALL ANGLES ± 12"</small>					
MATERIAL:				SIMILAR TO: 911689230005	
TYPE: AQUANEREDA				DRAWN BY: JFM	
DATE: 2024-10-03				DATE: 2024-10-02	
BY: JFM				WEIGHT: 6 OF 7	
REVISION DESCRIPTION: SUBMITTAL				DRAWING NUMBER: 9704419A30006	
DRAWING NAME: INFLUENT PIPING INSTL, AGS 2				SCALE: 1:48	
REV: ERNECO				SIZE: D	



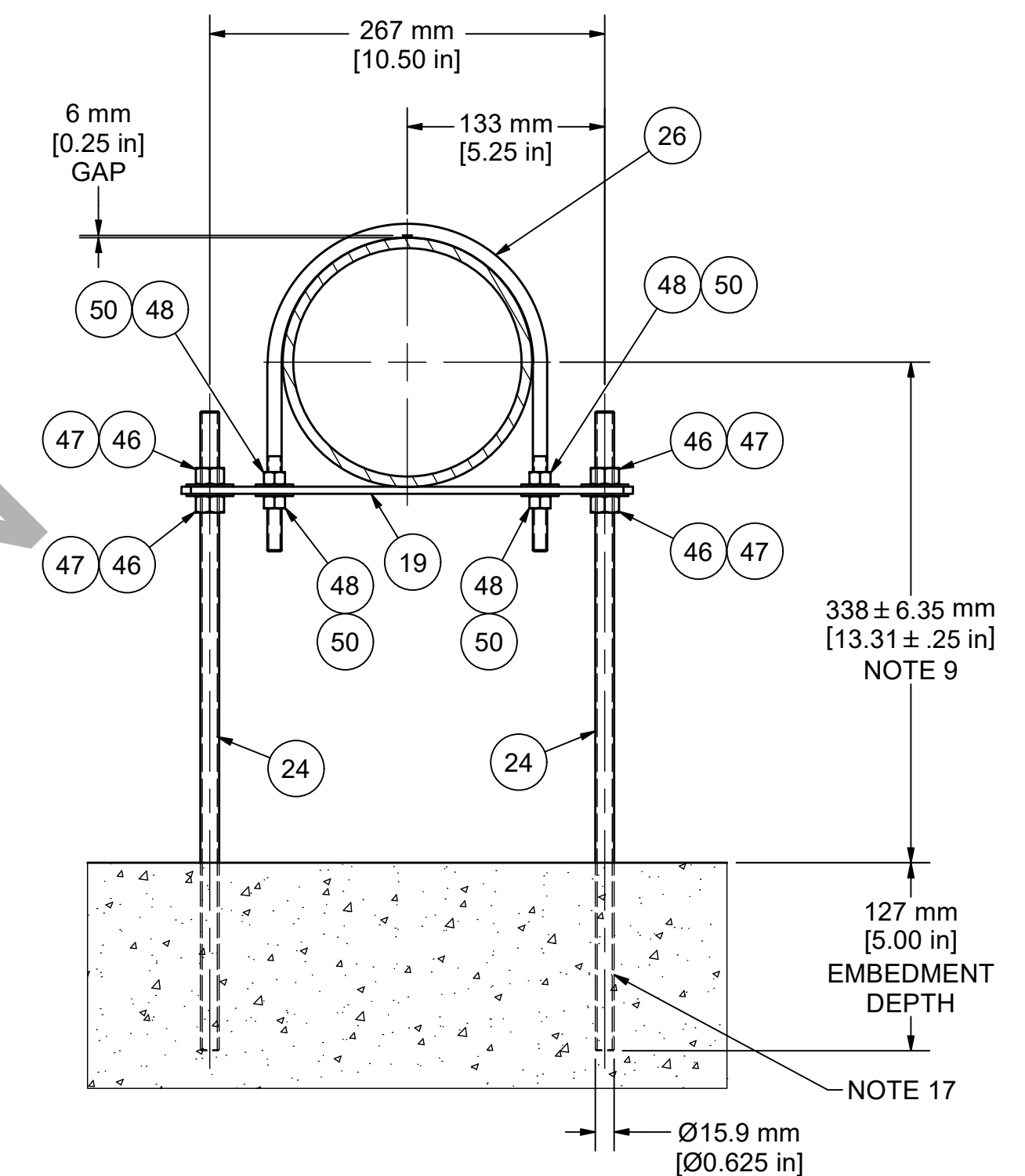
**SECTION F-F**  
FIXED FLOOR PLATE DETAIL  
(1) PLACE



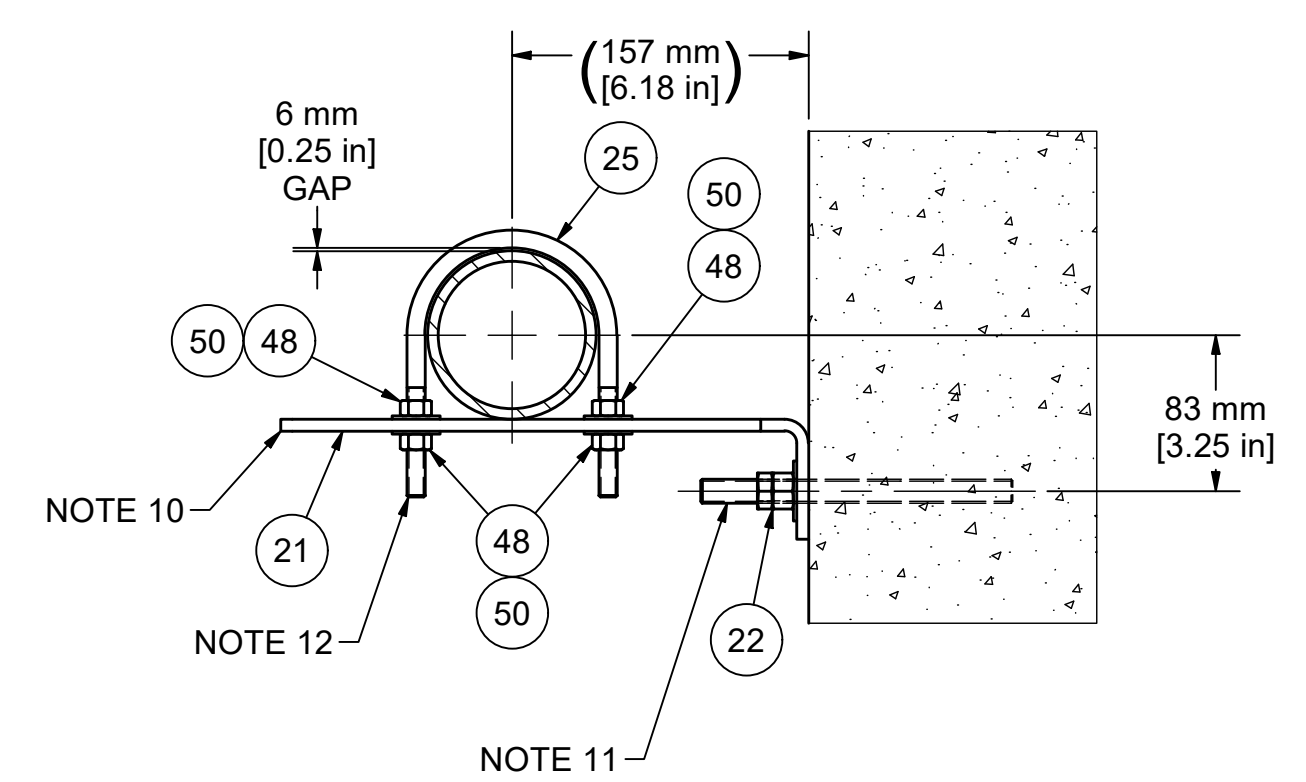
**SECTION G-G**  
SLIDING FLOOR PLATE DETAIL  
TYP (11)



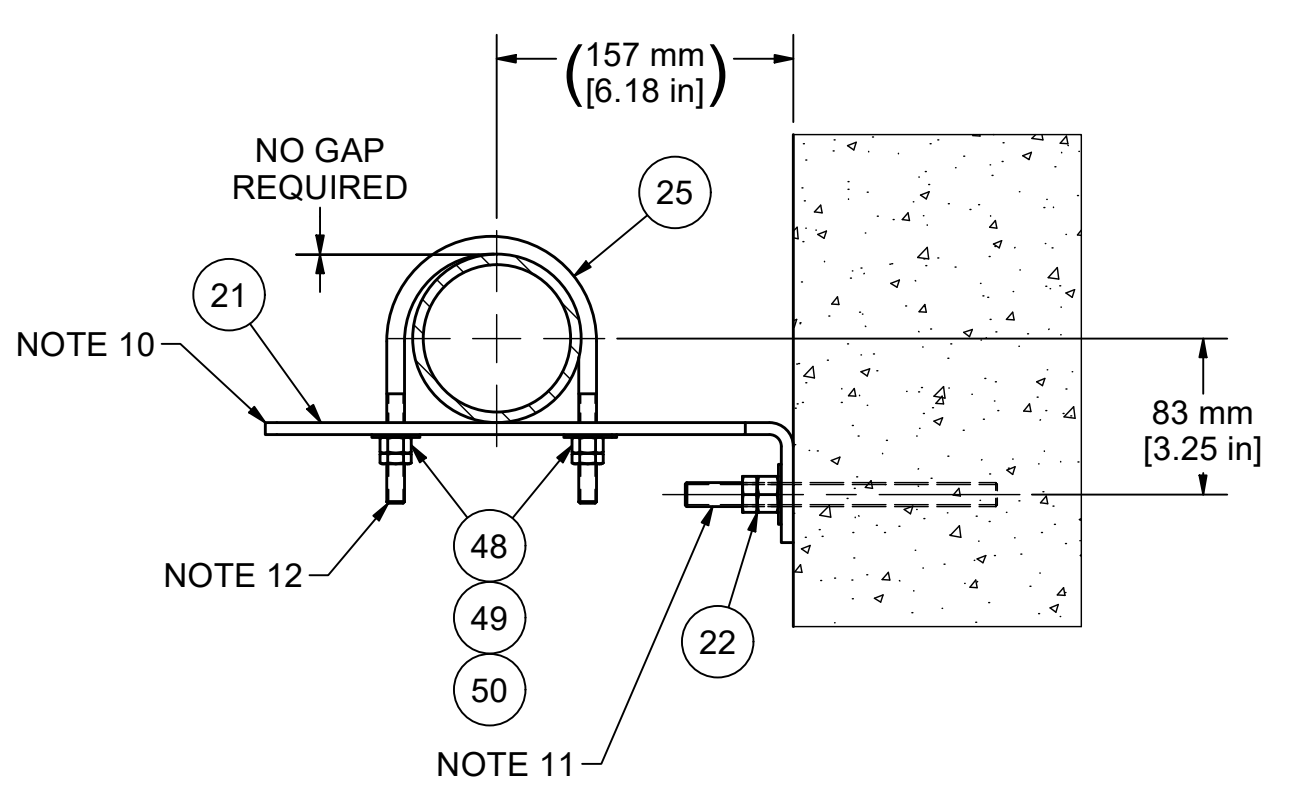
**DETAIL H**  
EXPANSION SLEEVE MOUNTING DETAIL  
TYP (2)



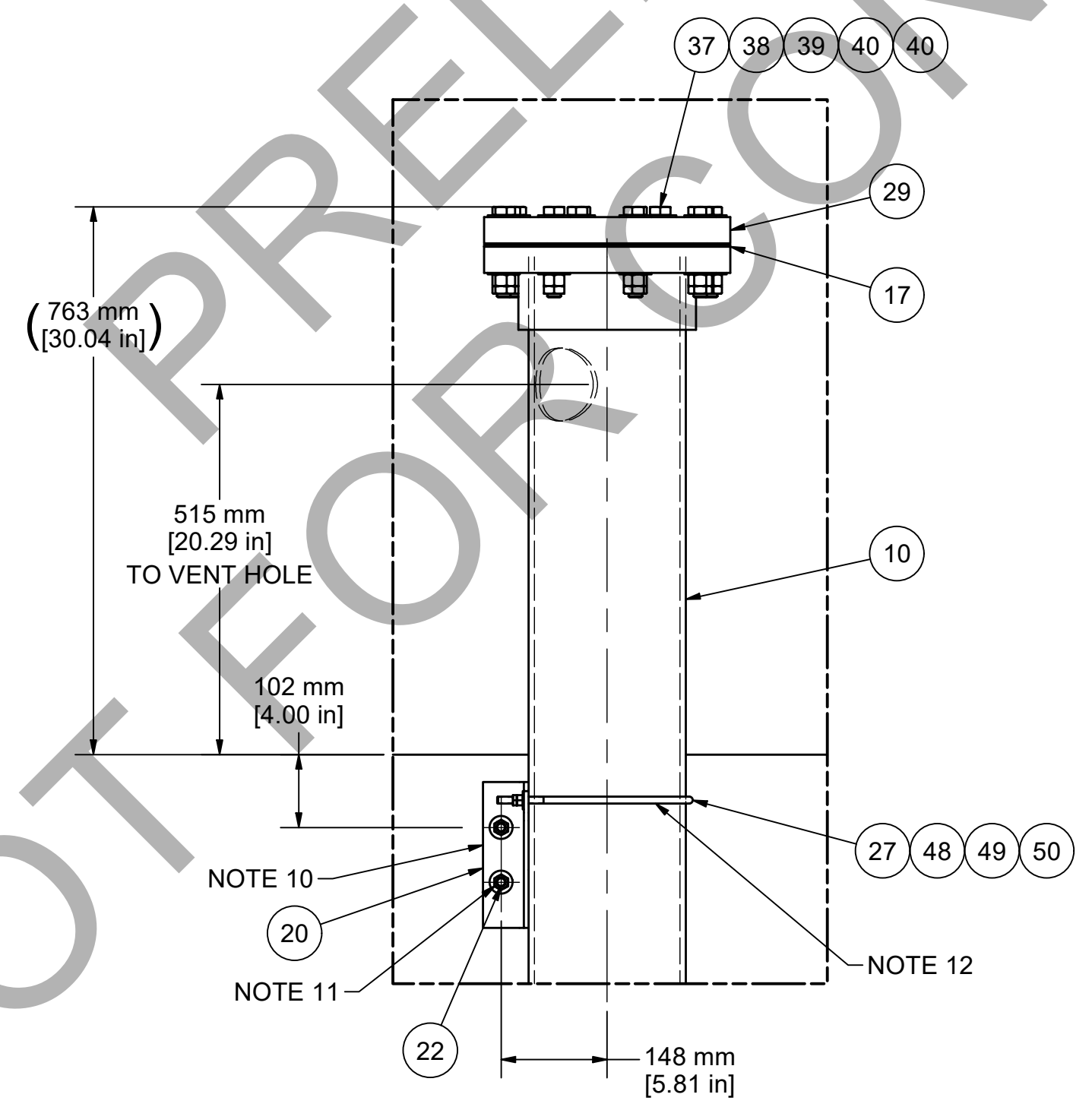
**SECTION J-J**  
INFLUENT LATERAL MOUNTING DETAIL  
TYP (264)



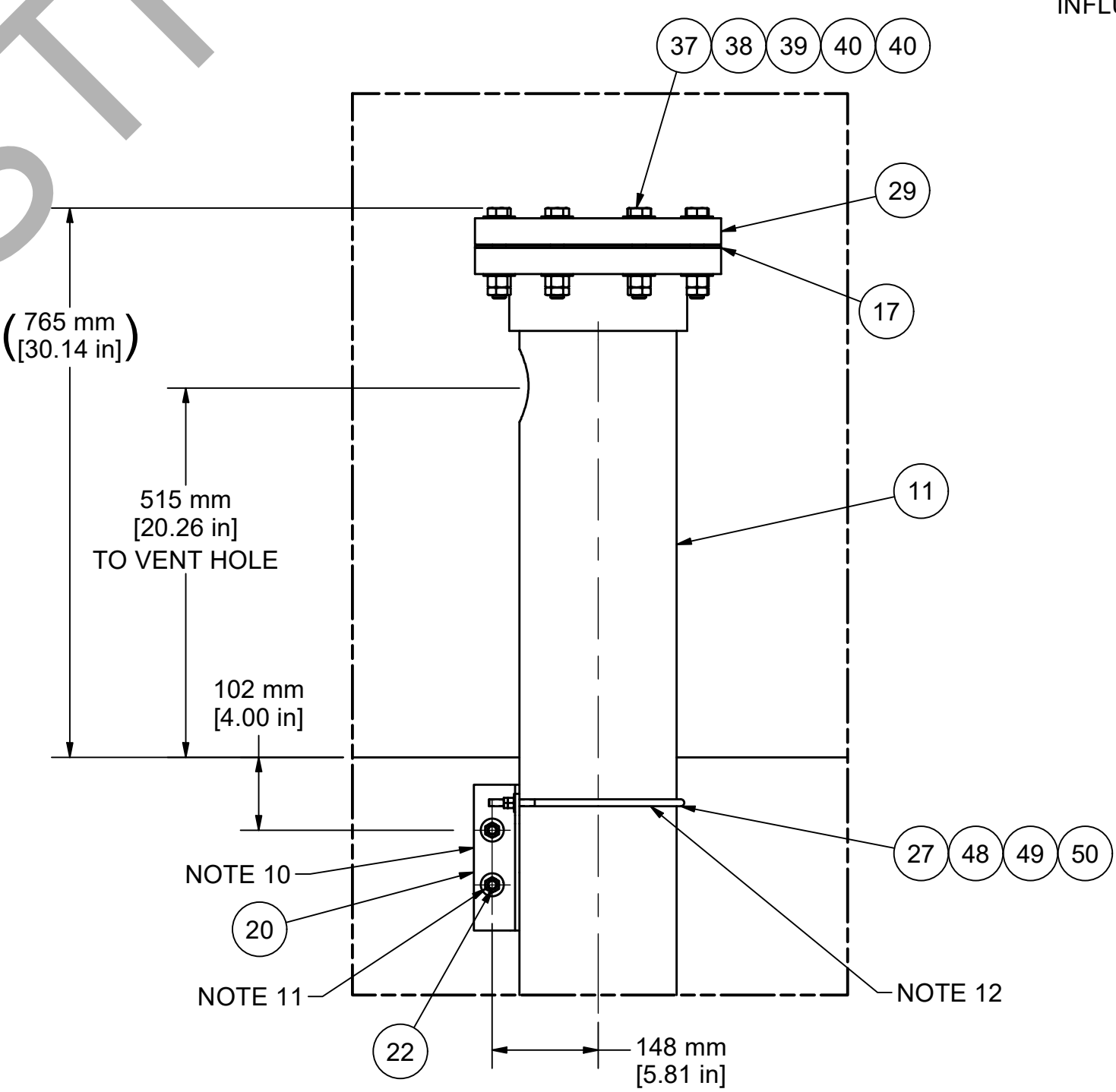
**SECTION L-L**  
SLIDING WALL PLATE MOUNTING DETAIL  
TYP (198)



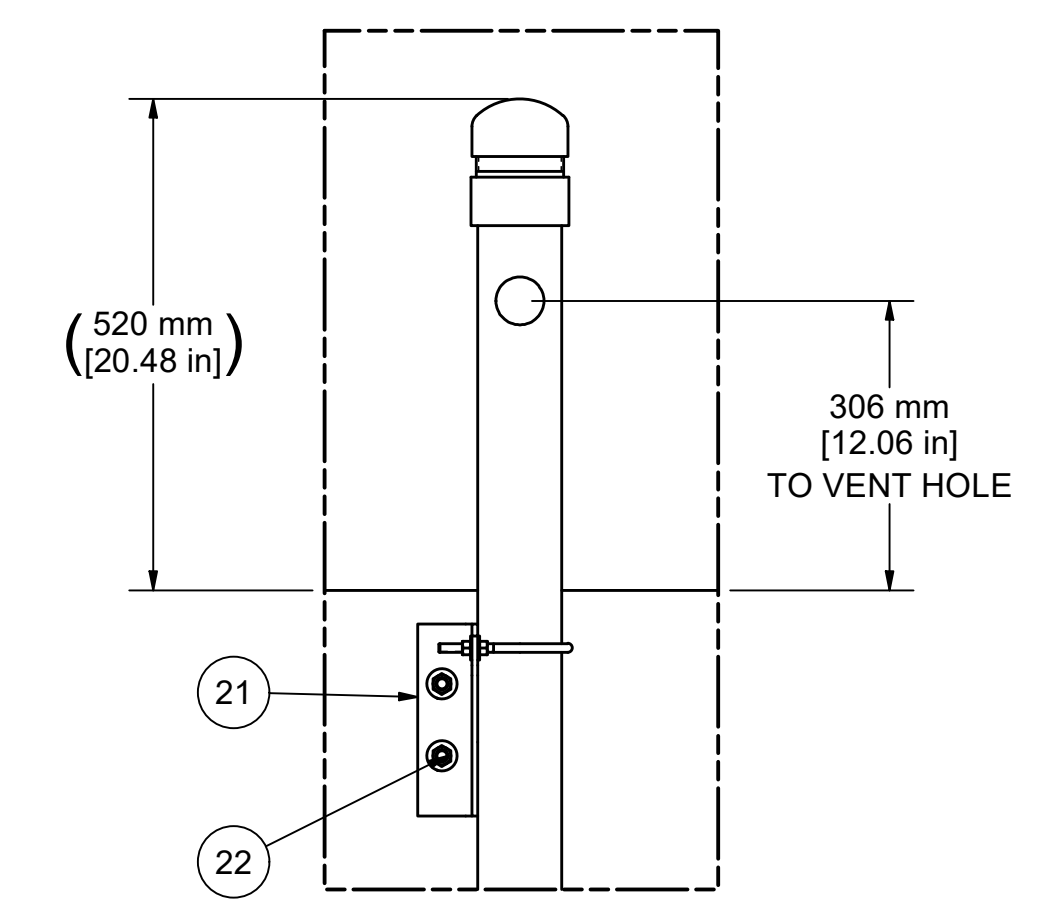
**SECTION K-K**  
FIXED WALL PLATE MOUNTING DETAIL  
TYP (66)



**DETAIL M**  
INFLUENT HEADER VENT ASSEMBLY  
MOUNTING DETAIL  
(INFLUENT INLET END)



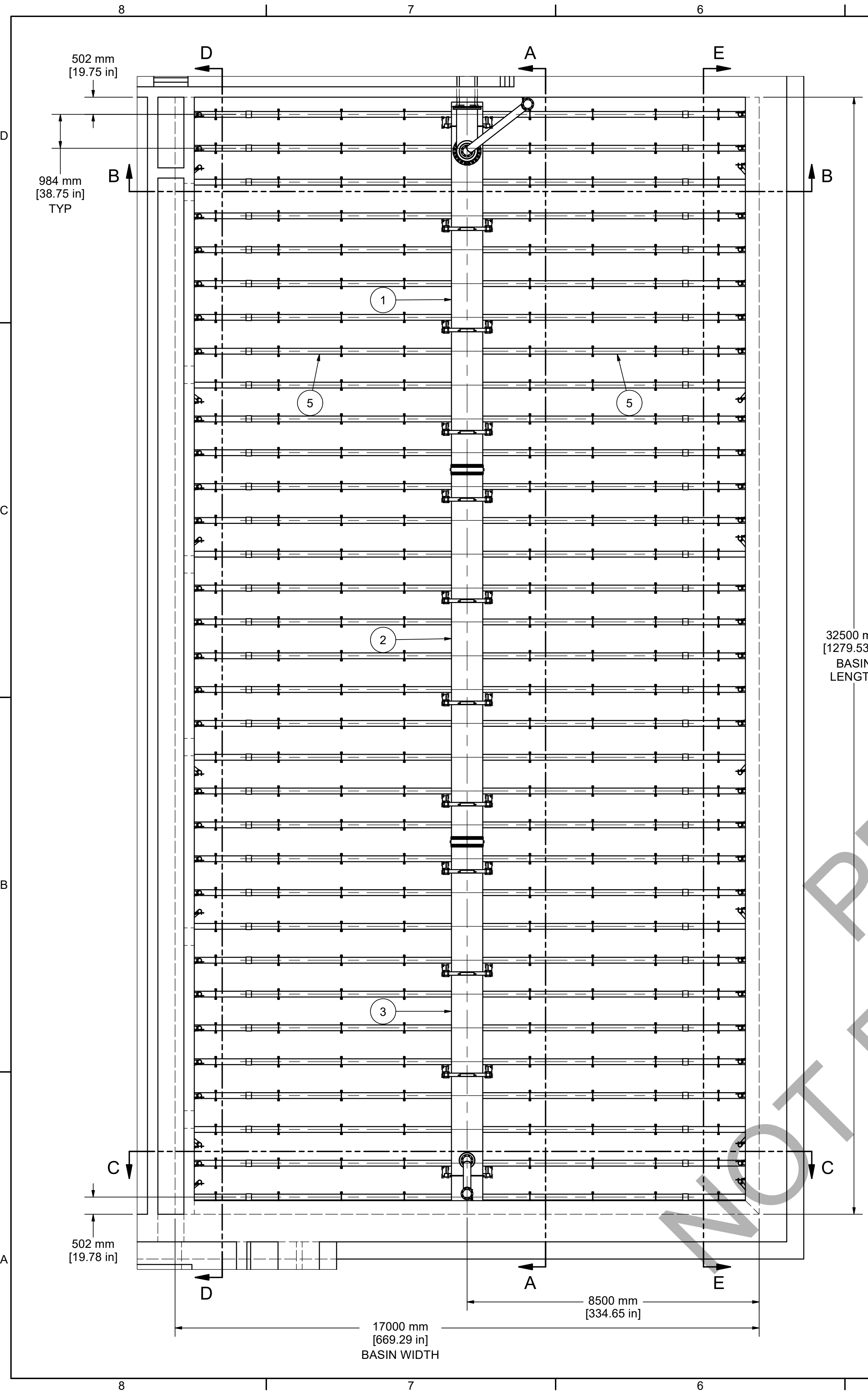
**DETAIL N**  
INFLUENT HEADER VENT ASSEMBLY  
MOUNTING DETAIL  
(OPPOSITE OF INFLUENT INLET END)



**DETAIL P**  
INFLUENT LATERAL VENT ASSEMBLY  
TYP (66)

**CONFIDENTIAL**

JOB NAME: NAPANEE WPCP UPGRADES		AQUA-AEROBIC SYSTEMS, INC. A Mettler Company	
JOB LOCATION: NAPANEE, ONTARIO, CANADA		DO NOT SCALE DRAWING	
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES		FRACTIONAL DIMENSIONS: ± 1/16 ALL TWO PLACE DECIMALS: ± 0.015 ALL THREE PLACE DECIMALS: ± 0.005 ALL ANGLES: ± 12"	
MATERIAL: SIMILAR TO 911689230005		TYPE: AQUANEREDA	
DRAWN BY: JFM		DATE: 2024-10-02	
REVISION DESCRIPTION		SHEET: 7 OF 7	
DRAWING NUMBER: 9704419A30006		SCALE: 1:16	
INFLUENT PIPING INSTL, AGS 2		SIZE: D	



**NOTES:**

1. PLEASE REVIEW ALL INDIVIDUAL INSTALLATION DRAWINGS FOR ACTUAL DETAILS. REFER TO ASSEMBLY INSTRUCTIONS IN THE OPERATION AND MAINTENANCE MANUAL PRIOR TO INSTALLING THE EQUIPMENT.
2. IT IS RECOMMENDED THAT ALL THREADED FASTENERS MUST BE SECURED WITH A FULL NUT AND A JAM NUT OR TWO FULL NUTS.
3. ANTI-SEIZE LUBRICANT IS REQUIRED ON ALL STAINLESS STEEL FASTENERS, UNLESS OTHERWISE SPECIFIED.
4. ALL PIPING, GASKETS, HARDWARE AND PIPE SUPPORTS BEYOND AQUA-AEROBIC SYSTEMS TERMINATION FLANGE HAVE BEEN SHOWN FOR REFERENCE ONLY AND TO BE SUPPLIED AND INSTALLED BY OTHERS.
5. ALL WALKWAYS / PLATFORMS HAVE BEEN SHOWN FOR REFERENCE ONLY AND TO BE SUPPLIED AND INSTALLED BY OTHERS.
6. OVERFLOWS ARE RECOMMENDED WITHIN ALL BASINS.
7. TORQUE ALL FASTENERS PER ES-1057, UNLESS OTHERWISE SPECIFIED.
8. INFLUENT LATERAL PIPES MUST BE MOUNTED WITH THE ORIFICE HOLES POINTED STRAIGHT DOWN WITHIN +/- 1°. A MARK HAS BEEN MADE AT EACH END OF THE PIPE TO AID IN ALIGNMENT. THE SUPPORT BRACKETS MUST NOT COVER THE ORIFICES.
9. ALL INFLUENT LATERAL PIPES MUST BE HELD ON THE SAME CENTERLINE ELEVATION WITHIN +/- 1/4" TO MAINTAIN UNIFORM DISTRIBUTION.
10. USE VENT PIPE SUPPORT BRACKETS AS A TEMPLATE TO MARK AND DRILL FOR ADHESIVE ANCHORS.
11. REFER TO ADHESIVE ANCHOR DRAWING AND O&M MANUAL FOR INSTALLATION INSTRUCTIONS.
12. FOR ALL U-BOLT CLAMPS: SPIN FULL NUT UNTIL CLAMP IS SNUG AND THEN TURN THE FIRST FULL NUT AN ADDITIONAL 1/2 TURN. LOCK WITH JAM OR FULL NUT AGAINST FIRST FULL NUT PER TORQUE SPECIFIED IN ES-1057.
13. THE FIXED END OF THE HEADER SECTION MUST BE LOCATED RELATIVE TO THE INFLUENT WALL, NOT THE PRECEDING LATERAL ROW. PIPES WILL THEN BE INSERTED EQUALLY INTO THE COUPLING.
14. IT IS PREFERRED TO ERECT THE HEADER PIPING WHEN PIPE TEMPERATURES ARE AS CLOSE TO 70°F, AS POSSIBLE.
15. FOR SUMMER INSTALLATIONS, THE PIPES CAN BE COOLED WITH WATER, SHADE OR INSTALLED EARLY IN THE MORNING. PIPES SHOULD NOT EXCEED 122°F SURFACE TEMPERATURE DURING INSTALLATION.
16. FOR WINTER INSTALLATIONS, INSTALLATION OF THE JOINTS SHOULD TAKE PLACE AT THE WARMEST TIME OF THE DAY. WHEN THE TEMPERATURE IS LESS THAN 18°F AND IF LOW POWER HEATING BLANKETS OR DARK COLORED TARPS ARE AVAILABLE, THEY SHOULD BE USED TO WARM THE PIPES PRIOR TO CENTERING THE EXPANSION JOINT OVER THE GAP.
17. FILL HOLE 1/2 TO 2/3 FULL OF ADHESIVE COMPOUND. TWISTING SLIGHTLY, INSERT THREADED ROD TO EMBEDMENT DEPTH AS SHOWN. DO NOT DISTURB THREADED ROD UNTIL CURE TIME HAS ELAPSED. REFER TO SECTION 4 IN THE OPERATION AND MAINTENANCE MANUAL FOR ADHESIVE CURE TIME.

**COMPONENT WEIGHTS:**

- INFLUENT HEADER ASSY, 36" X 24", INLET END: 887 KG [1956 LB]
- INFLUENT HEADER ASSY, 36", MID: 848 KG [1870 LB]
- INFLUENT HEADER ASSY, 36", END: 883 KG [1947 LB]
- INFLUENT HEADER ASSY, INLET, 24": 87 KG [192 LB]
- INFLUENT LATERAL ASSY, 6" X 3": 48 KG [106 LB]
- INFLUENT LATERAL VENT ASSY, CHANNEL SIDE, 1, AGS 3: 17 KG [37 LB]
- INFLUENT LATERAL VENT ASSY, CHANNEL SIDE, 2, AGS 3: 17 KG [37 LB]
- INFLUENT LATERAL VENT ASSY, WALKWAY SIDE, 1, AGS 1-3: 16 KG [36 LB]
- INFLUENT LATERAL VENT ASSY, WALKWAY SIDE, 2, AGS 1-3: 17 KG [37 LB]
- INFLUENT HEADER VENT ASSY, 8", INLET END: 55 KG [121 LB]
- INFLUENT HEADER VENT ASSY, 8", END, AGS 1-3: 60 KG [131 LB]
- INFLUENT HEADER SUPPORT WELDMENT, 36": 63 KG [138 LB]
- INFLUENT HEADER SUPPORT WELDMENT, 36", LOWER: 71 KG [156 LB]
- INFLUENT HEADER SUPPORT WELDMENT, 36", 18" UPPER: 194 KG [428 LB]

32500 mm  
[1279.53 in]  
BASIN  
LENGTH

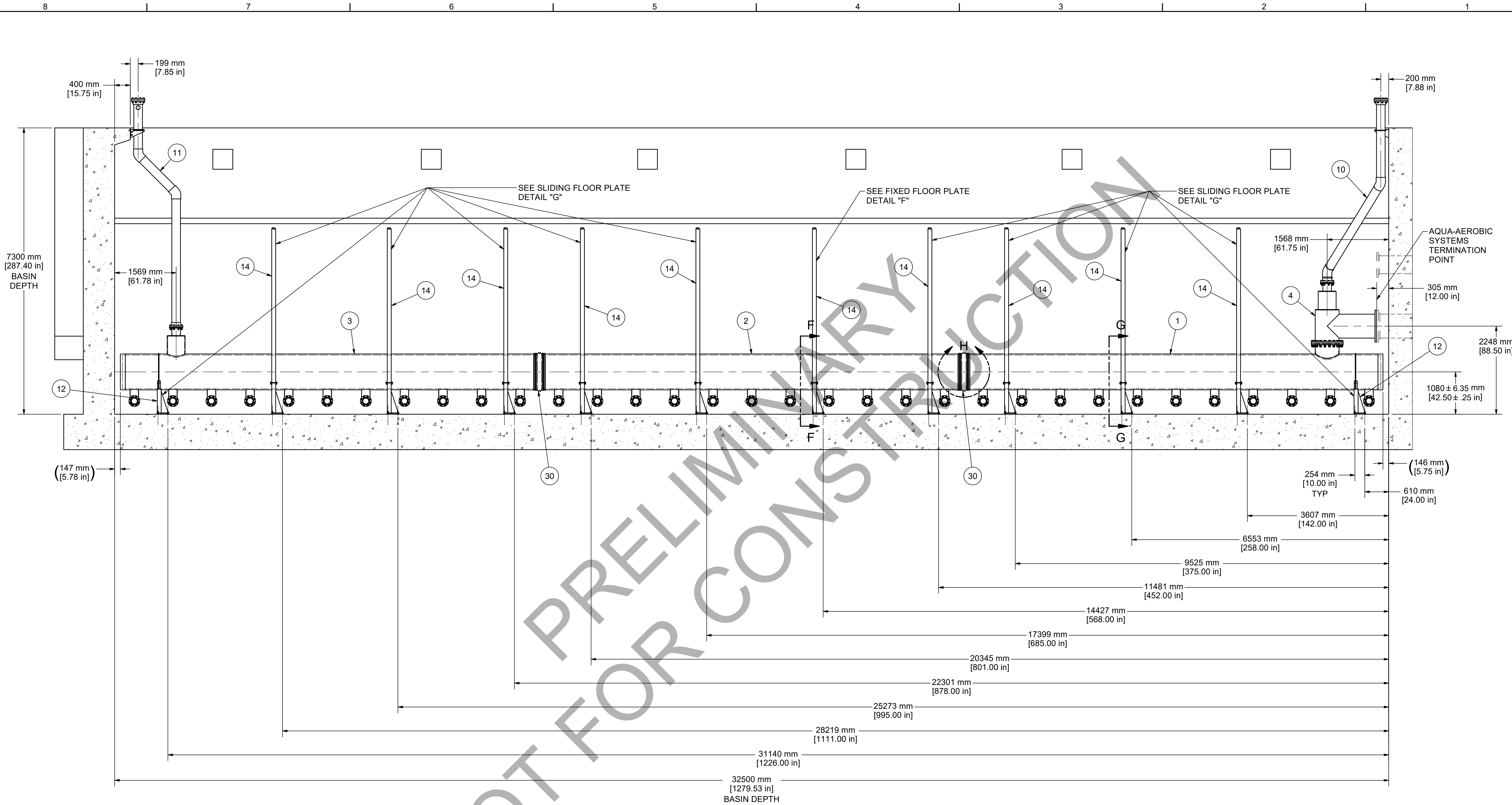
17000 mm  
[669.29 in]  
BASIN  
WIDTH

8500 mm  
[334.65 in]

**CONFIDENTIAL**

JOB NAME: NAPANEE WPCP UPGRADES				AQUA-AEROBIC SYSTEMS, INC. <small>A Metawater Company</small>			
JOB LOCATION: NAPANEE, ONTARIO, CANADA				<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES</small> <small>FRACTIONAL DIMENSIONS: +1/16</small> <small>ALL TWO PLACE DECIMALS: +0.010</small> <small>ALL THREE PLACE DECIMALS: +0.005</small> <small>ALL ANGLES: +1/2"</small>			
DO NOT SCALE DRAWING				ANSI			
MATERIAL:				SIMILAR TO: 911689230005			
TYPE: AQUANEREDA				DRAWN BY: JFM			
DATE: 2024-10-04				DATE: 2024-10-03			
REV: ERNECO				REVISION DESCRIPTION			
DRAWING NUMBER: 9704419A30007				SCALE: 1:78			
DRAWING NAME: INFLUENT PIPING INSTL, AGS 3				SHEET: 1 OF 7			

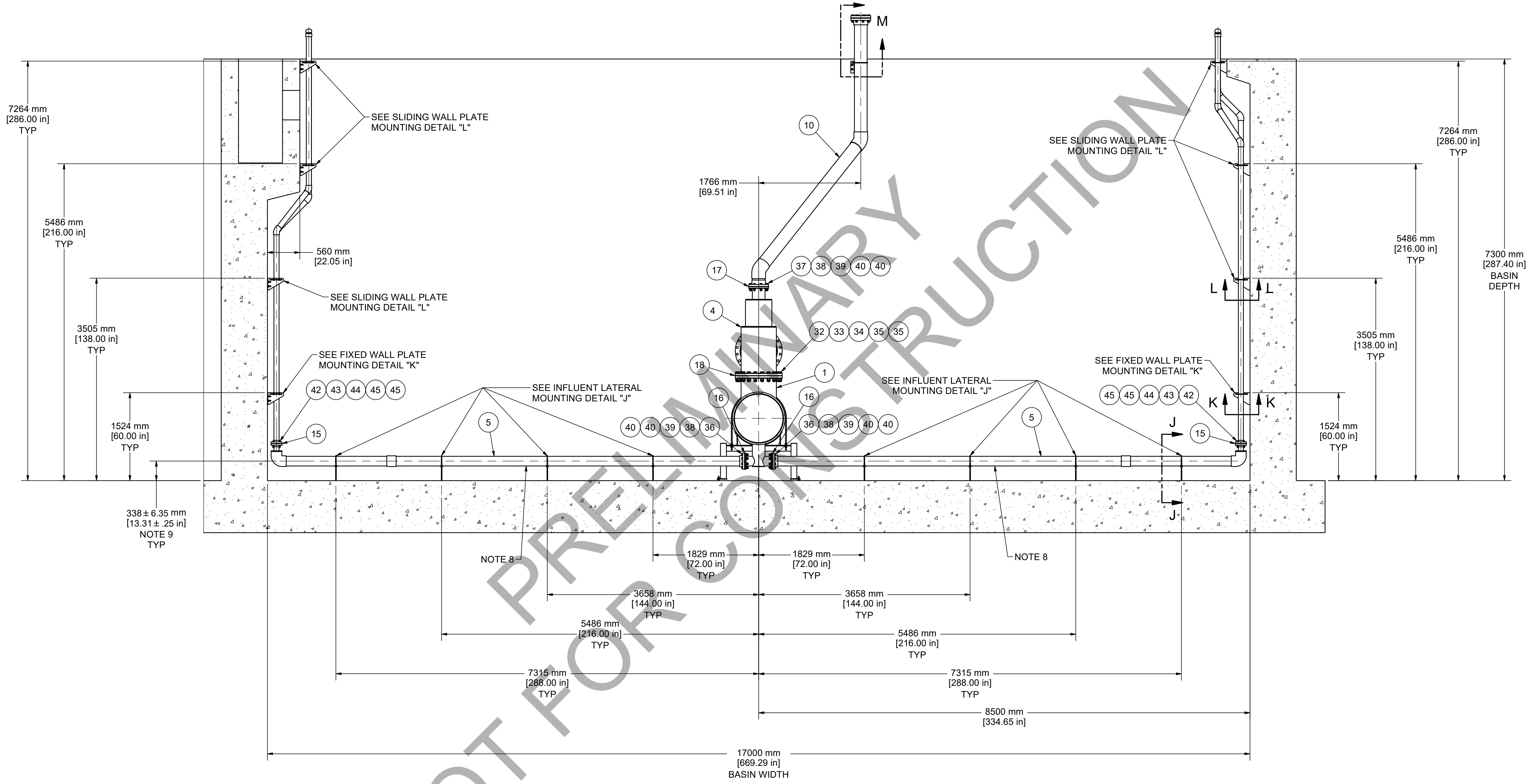




SECTION A-A

CONFIDENTIAL

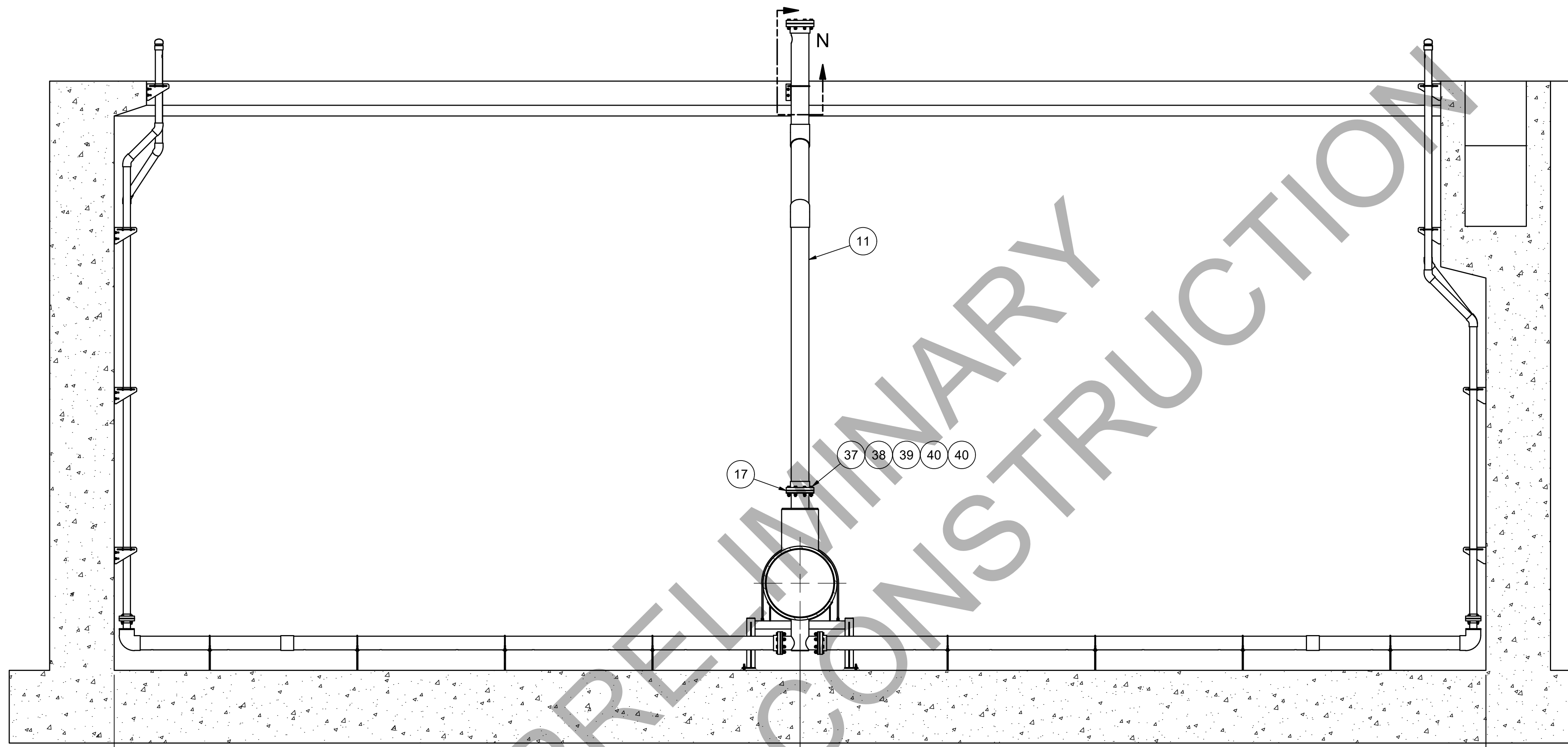
JOB NAME: NAPANEE WPCP UPGRADES		AQUA-AEROBIC SYSTEMS, INC. A Mettawater Company	
JOB LOCATION: NAPANEE, ONTARIO, CANADA		UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES	
		DO NOT SCALE DRAWING	
		FRACTIONAL DIMENSIONS ± 1/16 ALL TWO PLACE DECIMALS ± 0.010 ALL THREE PLACE DECIMALS ± 0.005 ALL ANGLES ± 1/2°	
		ANSI	
MATERIAL:		SIMILAR TO: 911689230005	
		TYPE: AQUANEREDA	
A	2024-10-04	JFM	SUBMITTAL
REV	ERNECO	DATE	BY
DRAWING NAME:		DRAWING NUMBER:	
INFLUENT PIPING INSTL, AGS 3		9704419A30007	
		SCALE: 1:48	
		SHEET: 2 OF 7	
		SIZE: D	



SECTION B-B

CONFIDENTIAL

JOB NAME: NAPANEE WPCP UPGRADES				AQUA-AEROBIC SYSTEMS, INC. <small>A Metawater Company</small>			
JOB LOCATION: NAPANEE, ONTARIO, CANADA				UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES			
				DO NOT SCALE DRAWING			
				FRACTIONAL DIMENSIONS: ±0.010 ALL TWO PLACE DECIMALS ALL THREE PLACE DECIMALS ALL ANGLES: ±1/2"			
MATERIAL:				ANSI			
SIMILAR TO: 911689230005							
TYPE: AQUANEREDA							
DRAWN BY: JFM		DATE: 2024-10-03					
REV	ERNECO	DATE	BY	WEIGHT:	SHEET: 3 OF 7		
DRAWING NAME: INFLUENT PIPING INSTL, AGS 3				DRAWING NUMBER: 9704419A30007			
				SCALE: 1:36			
				SIZE: D			



17000 mm  
[669.29 in]  
BASIN WIDTH

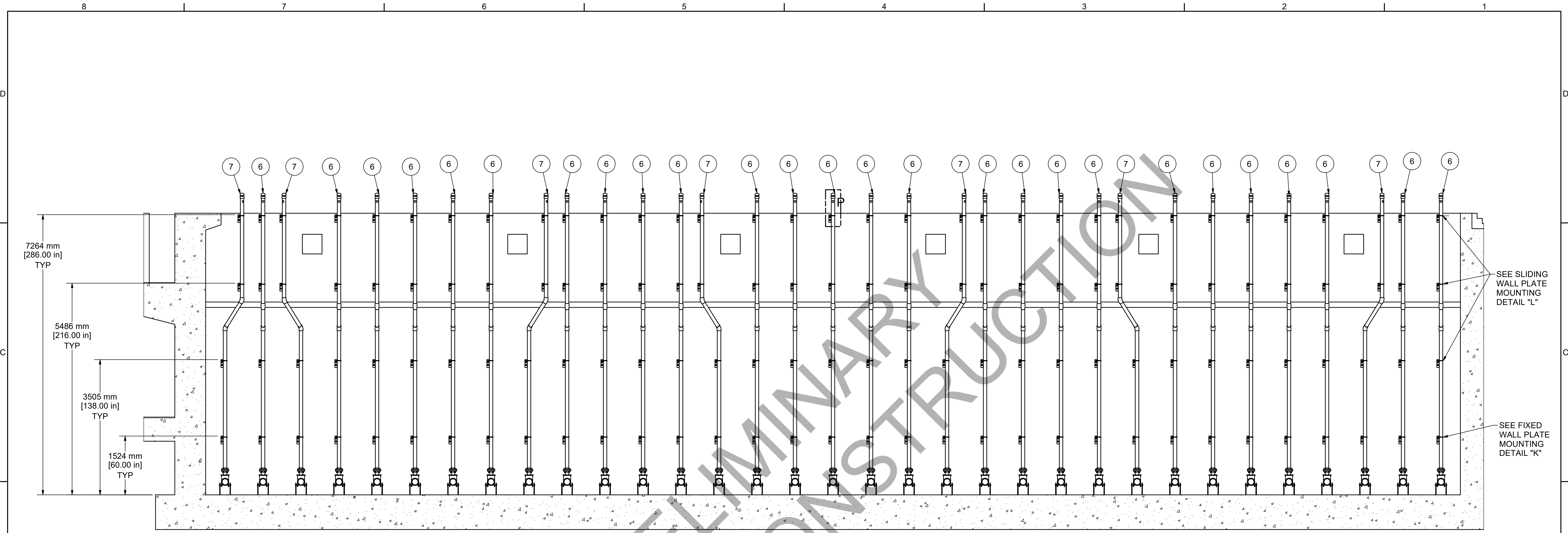
8500 mm  
[334.65 in]

SECTION C-C

NOT FOR PRELIMINARY CONSTRUCTION

**CONFIDENTIAL**

JOB NAME: NAPANEE WPCP UPGRADES				AQUA-AEROBIC SYSTEMS, INC. <small>A Metawater Company</small>			
JOB LOCATION: NAPANEE, ONTARIO, CANADA				<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES</small> <small>DO NOT SCALE DRAWING</small> <small>FRACTIONAL DIMENSIONS ±: 1/16</small> <small>ALL TWO PLACE DECIMALS ±: 0.010</small> <small>ALL THREE PLACE DECIMALS ±: 0.005</small> <small>ALL ANGLES ±: 1/2°</small>			
MATERIAL:				ANSI			
SIMILAR TO: 911689230005				TYPE: AQUANEREDA			
REV A		2024-10-04		JFM		SUBMITTAL	
DRAWN BY: JFM		DATE: 2024-10-03		WEIGHT:		SHEET: 4 OF 7	
DRAWING NAME: INFLUENT PIPING INSTL, AGS 3				DRAWING NUMBER: 9704419A30007		SCALE: 1:36	

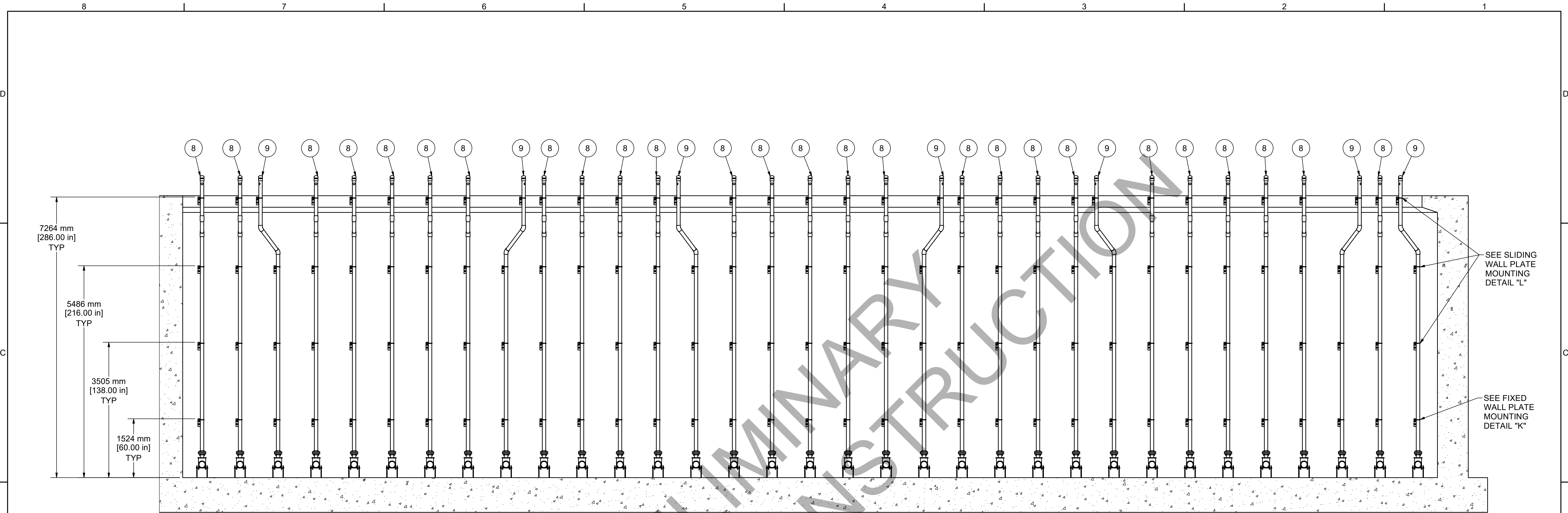


SECTION D-D  
VIEW TOWARDS EFFLUENT CHANNEL SIDE OF BASIN

NOT FOR PRELIMINARY CONSTRUCTION

CONFIDENTIAL

JOB NAME: NAPANEE WPCP UPGRADES				<b>AQUA-AEROBIC SYSTEMS, INC.</b> <small>A Metawater Company</small>	
JOB LOCATION: NAPANEE, ONTARIO, CANADA					
<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES</small>				<small>DO NOT SCALE DRAWING</small>	
<small>FRACTIONAL DIMENSIONS ±: 1/16 ALL TWO PLACE DECIMALS ±: 0.010 ALL THREE PLACE DECIMALS ±: 0.005 ALL ANGLES ±: 12"</small>					
MATERIAL:				SIMILAR TO: 911689230005	
TYPE: AQUANEREDA				DRAWN BY: JFM	
DATE: 2024-10-04				DATE: 2024-10-03	
REV: ERNECO				WEIGHT: 5 OF 7	
DATE: 2024-10-04				SHEET: 5 OF 7	
BY: JFM				DRAWING NUMBER: 9704419A30007	
REVISION DESCRIPTION: SUBMITTAL				SCALE: 1:48	
DRAWING NAME: INFLUENT PIPING INSTL, AGS 3				SIZE: D	

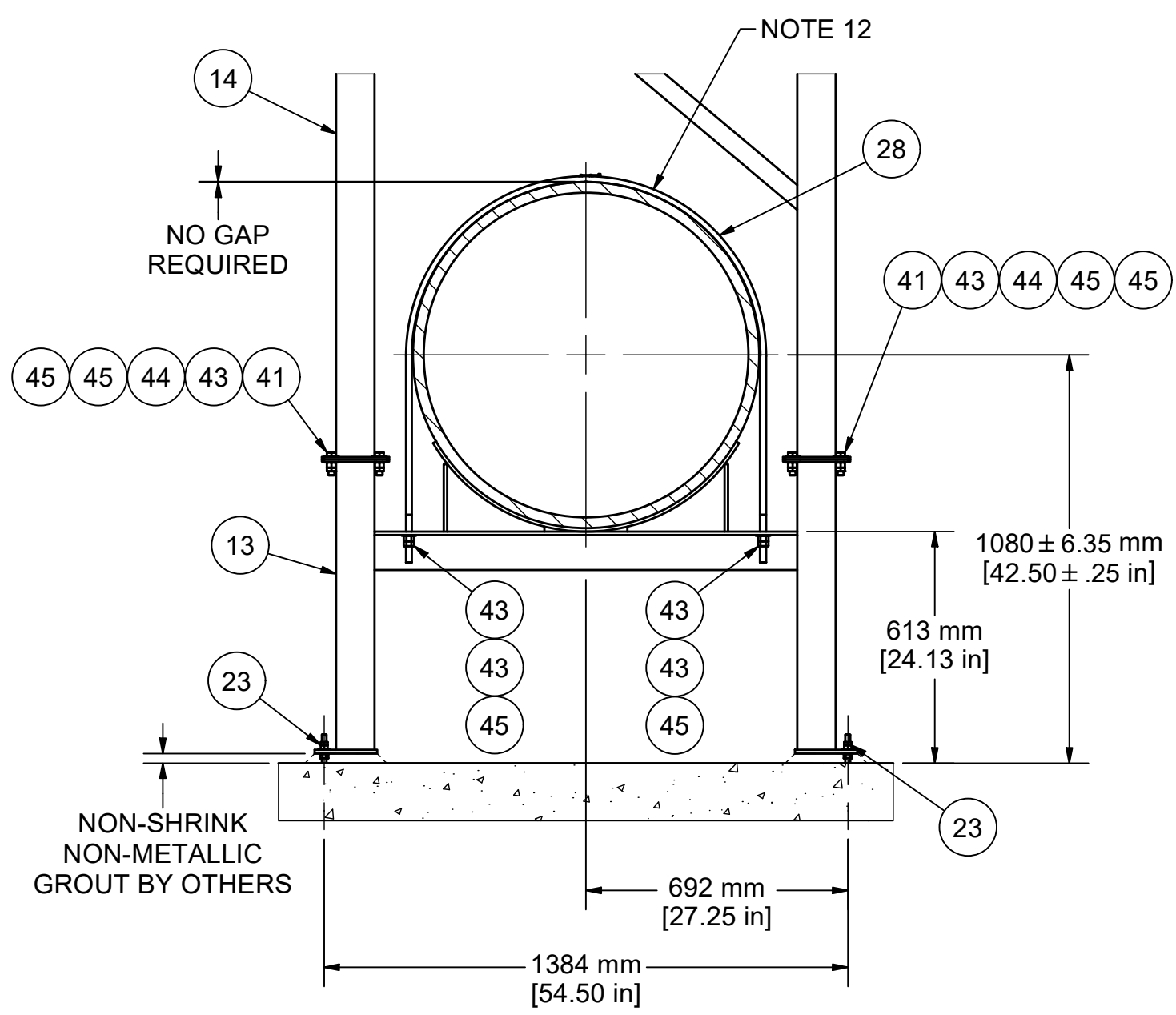


SECTION E-E  
VIEW TOWARDS WALKWAY SIDE OF BASIN

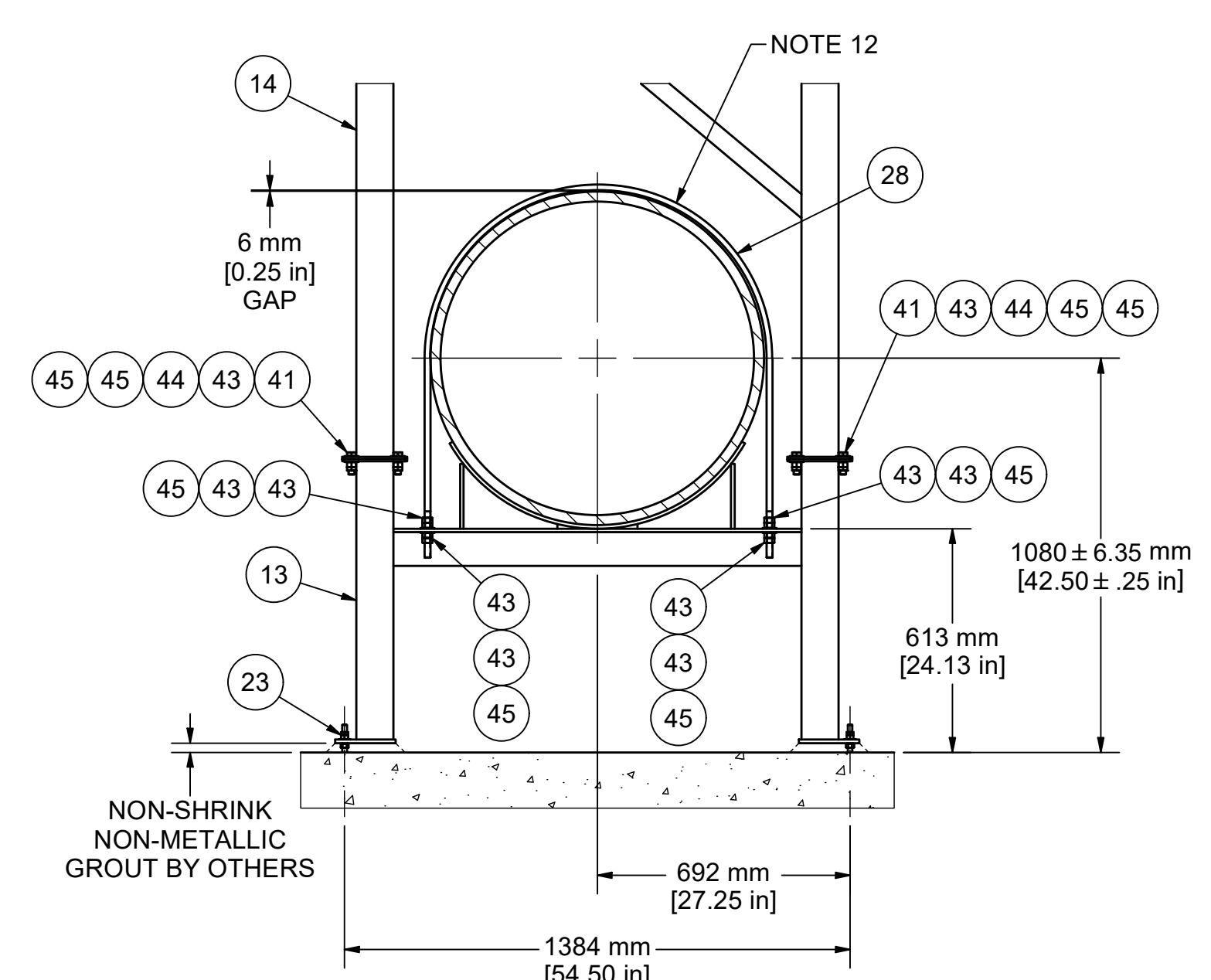
NOT FOR PRELIMINARY CONSTRUCTION

CONFIDENTIAL

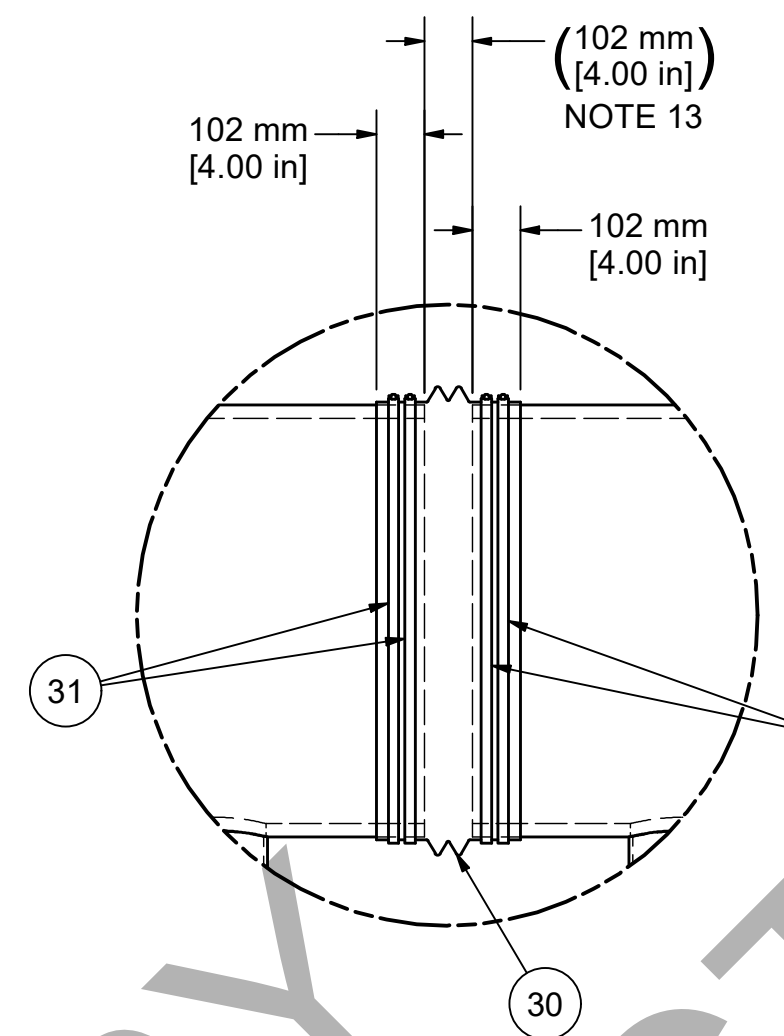
JOB NAME: NAPANEE WPCP UPGRADES				<b>AQUA-AEROBIC SYSTEMS, INC.</b> <small>A Metawater Company</small>	
JOB LOCATION: NAPANEE, ONTARIO, CANADA					
<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES</small>				<small>DO NOT SCALE DRAWING</small>	
<small>FRACTIONAL DIMENSIONS ±1/16 ALL TWO PLACE DECIMALS ±0.010 ALL THREE PLACE DECIMALS ±0.005 ALL ANGLES ±1/2°</small>					
MATERIAL:					
SIMILAR TO: 911689230005					
TYPE: AQUANEREDA				DRAWN BY: JFM	
DATE: 2024-10-03				DATE: 2024-10-03	
REV: ERNECO				WEIGHT: 6 OF 7	
DATE: 2024-10-04				BY: JFM	
REVISION DESCRIPTION: SUBMITTAL				DRAWING NUMBER: 9704419A30007	
DRAWING NAME: INFLUENT PIPING INSTL, AGS 3				SCALE: 1:48	
				SIZE: D	



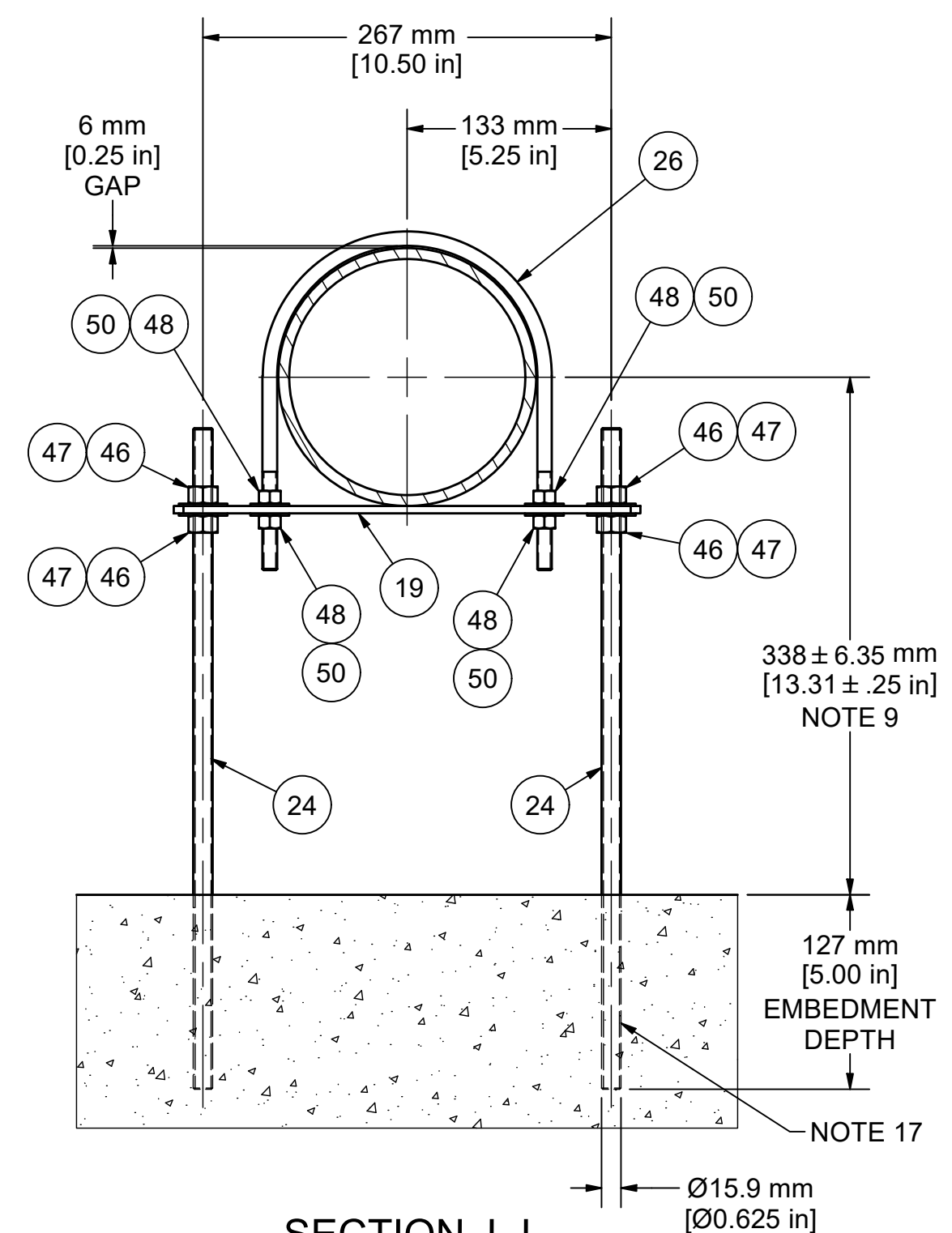
**SECTION F-F**  
FIXED FLOOR PLATE DETAIL  
(1) PLACE



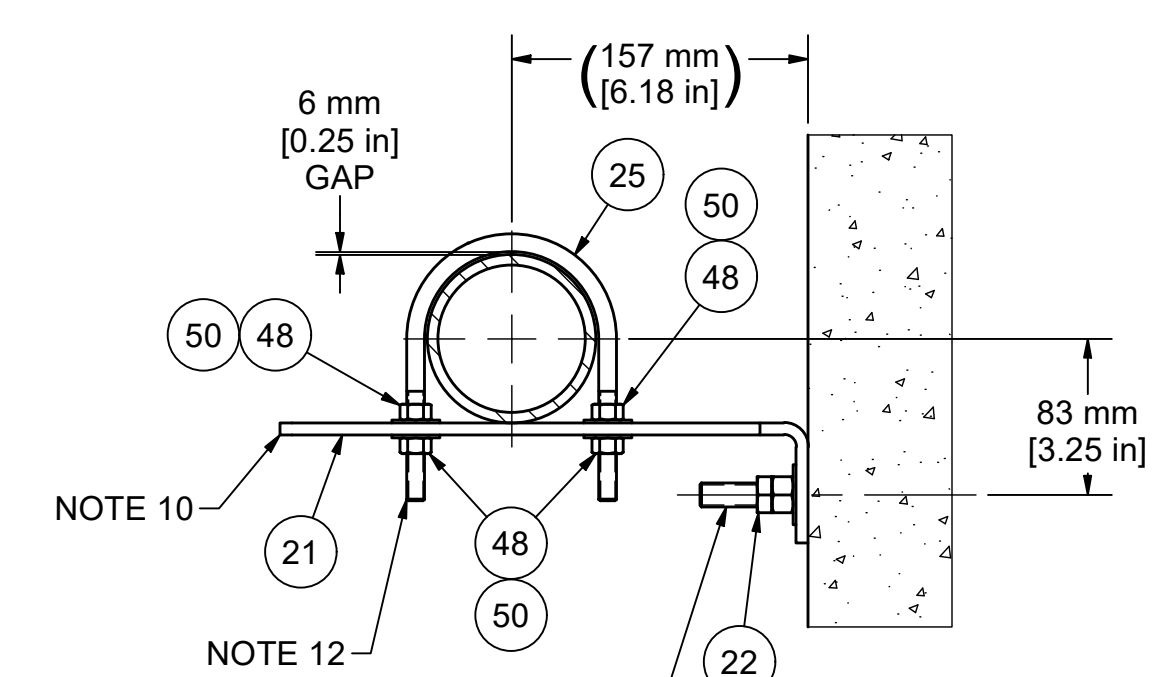
**SECTION G-G**  
SLIDING FLOOR PLATE DETAIL  
TYP (11)



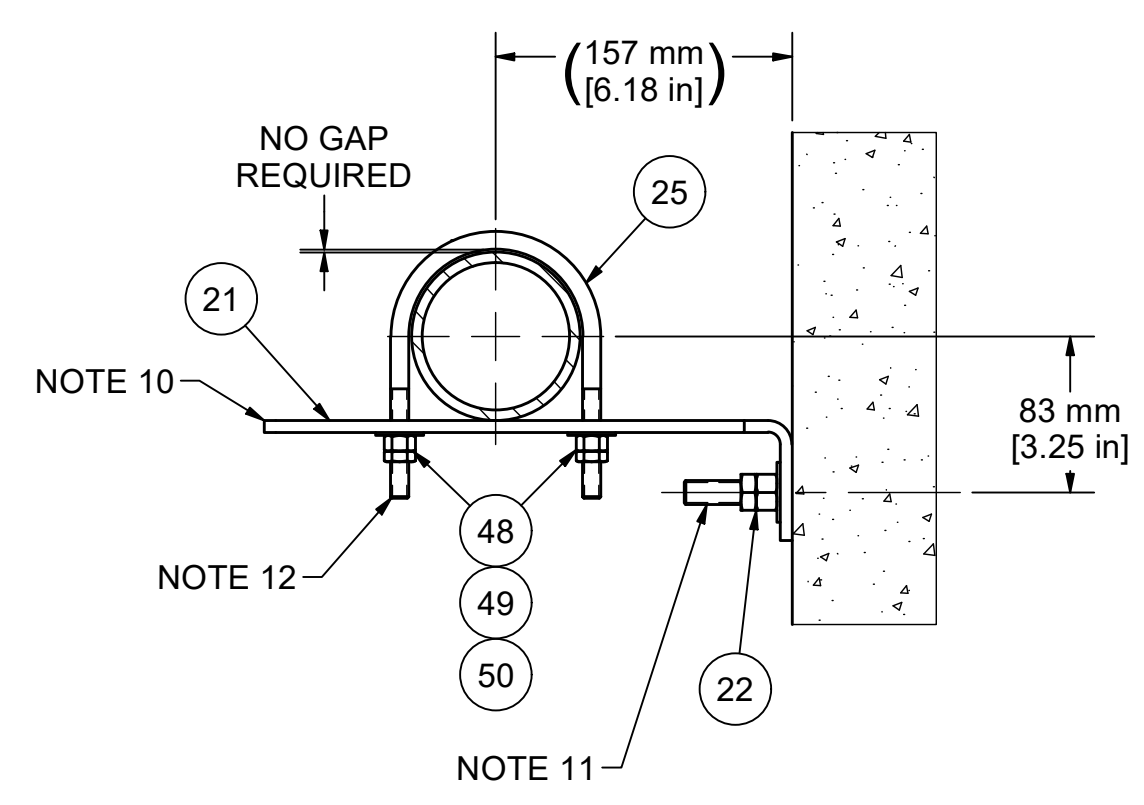
**DETAIL H**  
EXPANSION SLEEVE MOUNTING DETAIL  
TYP (2)



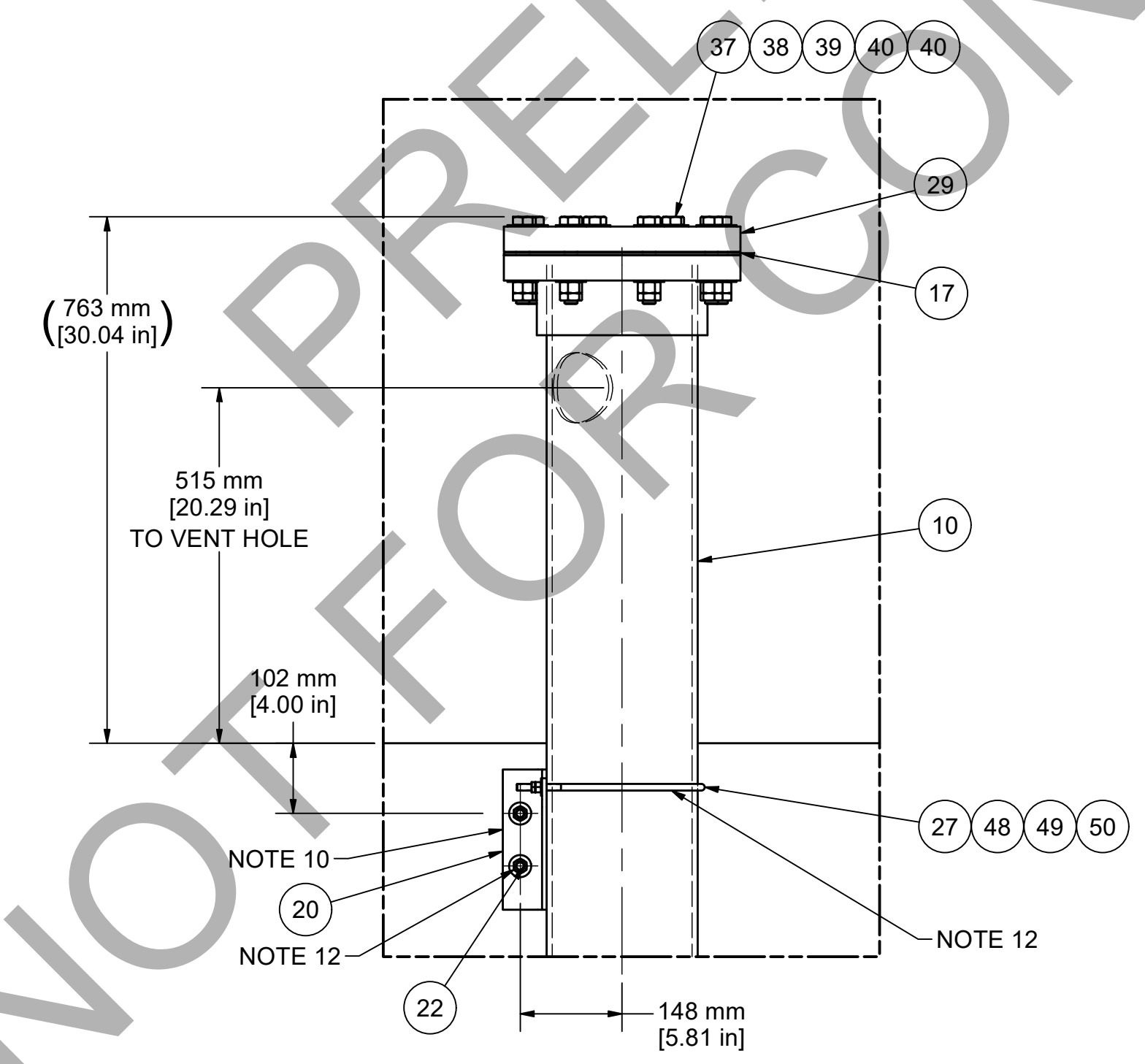
**SECTION J-J**  
INFLUENT LATERAL MOUNTING DETAIL  
TYP (264)



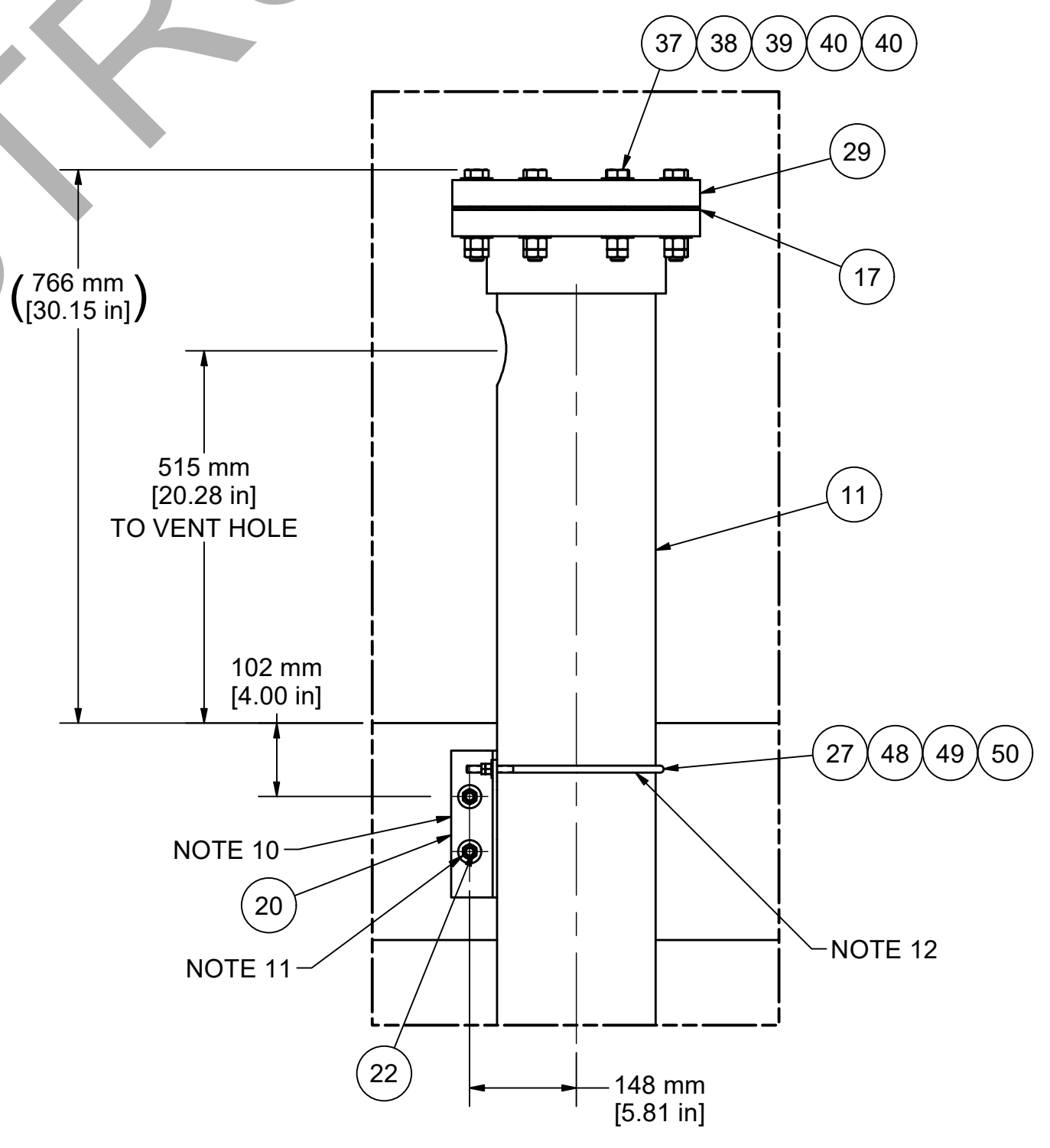
**SECTION L-L**  
SLIDING WALL PLATE MOUNTING DETAIL  
TYP (198)



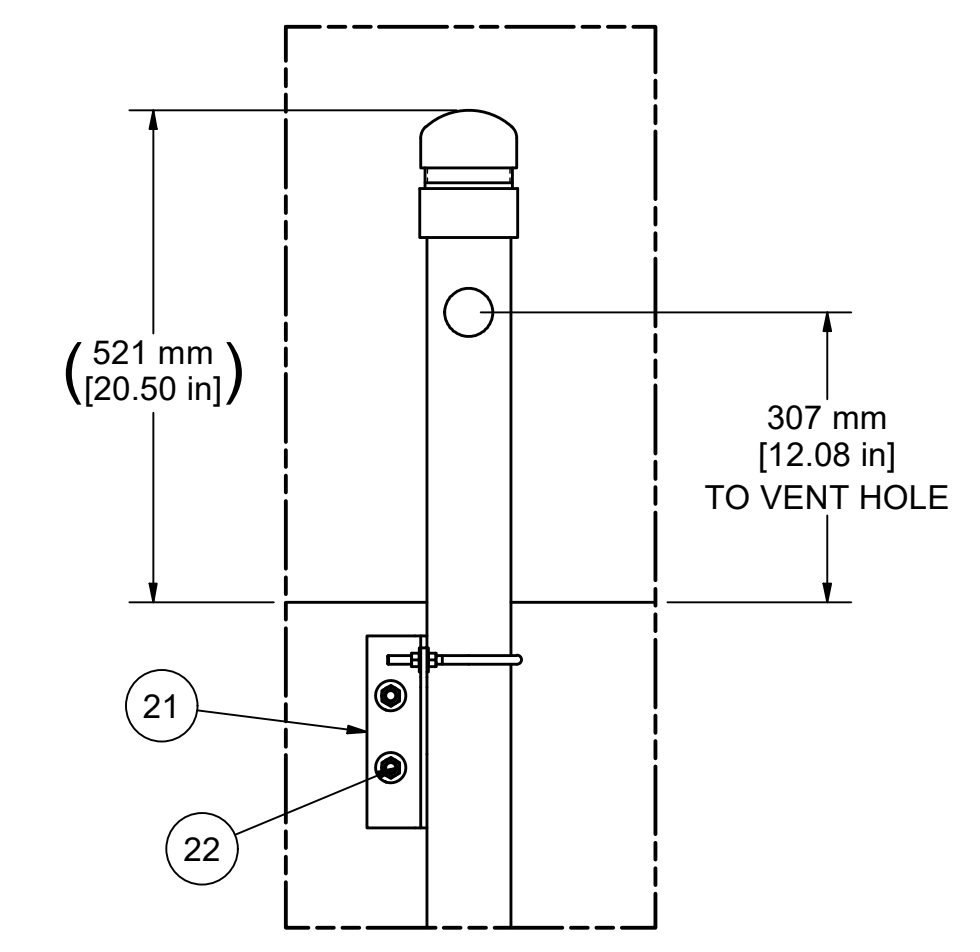
**SECTION K-K**  
FIXED WALL PLATE MOUNTING DETAIL  
TYP (66)



**DETAIL M**  
INFLUENT HEADER VENT ASSEMBLY  
MOUNTING DETAIL  
(INFLUENT INLET END)



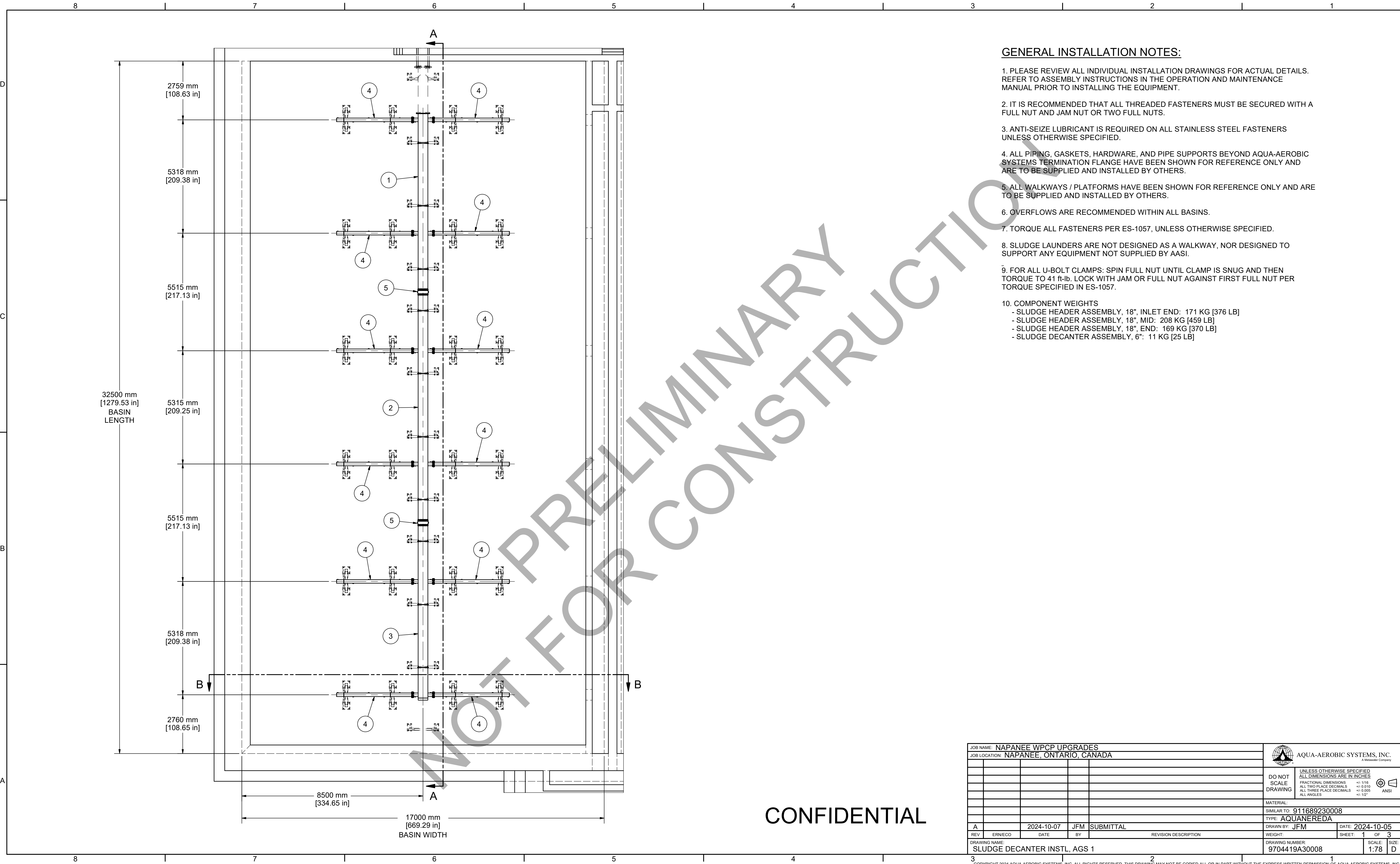
**DETAIL N**  
INFLUENT HEADER VENT ASSEMBLY  
MOUNTING DETAIL  
(OPPOSITE OF INFLUENT INLET END)



**DETAIL P**  
INFLUENT LATERAL VENT ASSEMBLY  
TYP (66)

**CONFIDENTIAL**

JOB NAME: NAPANEE WPCP UPGRADES		AQUA-AEROBIC SYSTEMS, INC. A Mettler-Toledo Company	
JOB LOCATION: NAPANEE, ONTARIO, CANADA		DO NOT SCALE DRAWING	
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES		ANSI	
SIMILAR TO: 911689230005		MATERIAL:	
TYPE: AQUANEREDA		DRAWN BY: JFM	
DATE: 2024-10-03		DATE: 2024-10-03	
REV	ERNECO	DATE	BY
DRAWING NUMBER: 9704419A30007		SCALE: 1:16	
DRAWING NAME: INFLUENT PIPING INSTL, AGS 3		SHEET: 7 OF 7	



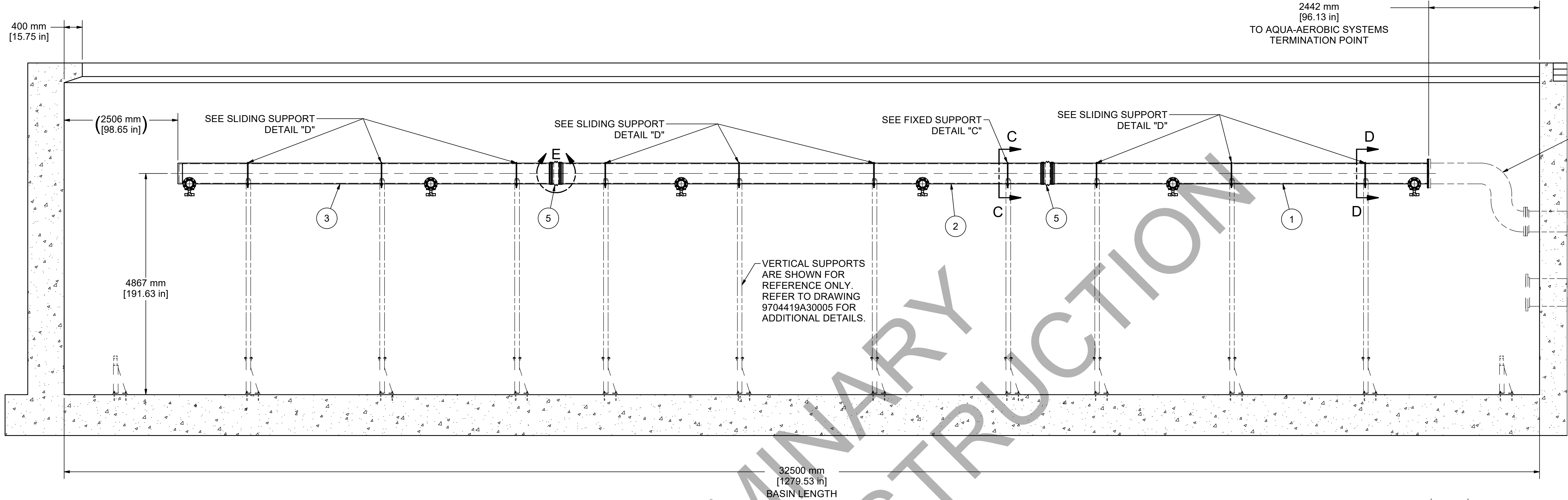
**GENERAL INSTALLATION NOTES:**

1. PLEASE REVIEW ALL INDIVIDUAL INSTALLATION DRAWINGS FOR ACTUAL DETAILS. REFER TO ASSEMBLY INSTRUCTIONS IN THE OPERATION AND MAINTENANCE MANUAL PRIOR TO INSTALLING THE EQUIPMENT.
2. IT IS RECOMMENDED THAT ALL THREADED FASTENERS MUST BE SECURED WITH A FULL NUT AND JAM NUT OR TWO FULL NUTS.
3. ANTI-SEIZE LUBRICANT IS REQUIRED ON ALL STAINLESS STEEL FASTENERS UNLESS OTHERWISE SPECIFIED.
4. ALL PIPING, GASKETS, HARDWARE, AND PIPE SUPPORTS BEYOND AQUA-AEROBIC SYSTEMS TERMINATION FLANGE HAVE BEEN SHOWN FOR REFERENCE ONLY AND ARE TO BE SUPPLIED AND INSTALLED BY OTHERS.
5. ALL WALKWAYS / PLATFORMS HAVE BEEN SHOWN FOR REFERENCE ONLY AND ARE TO BE SUPPLIED AND INSTALLED BY OTHERS.
6. OVERFLOWS ARE RECOMMENDED WITHIN ALL BASINS.
7. TORQUE ALL FASTENERS PER ES-1057, UNLESS OTHERWISE SPECIFIED.
8. SLUDGE LAUNDERS ARE NOT DESIGNED AS A WALKWAY, NOR DESIGNED TO SUPPORT ANY EQUIPMENT NOT SUPPLIED BY AASI.
9. FOR ALL U-BOLT CLAMPS: SPIN FULL NUT UNTIL CLAMP IS SNUG AND THEN TORQUE TO 41 ft-lb. LOCK WITH JAM OR FULL NUT AGAINST FIRST FULL NUT PER TORQUE SPECIFIED IN ES-1057.
10. COMPONENT WEIGHTS
  - SLUDGE HEADER ASSEMBLY, 18", INLET END: 171 KG [376 LB]
  - SLUDGE HEADER ASSEMBLY, 18", MID: 208 KG [459 LB]
  - SLUDGE HEADER ASSEMBLY, 18", END: 169 KG [370 LB]
  - SLUDGE DECANter ASSEMBLY, 6": 11 KG [25 LB]

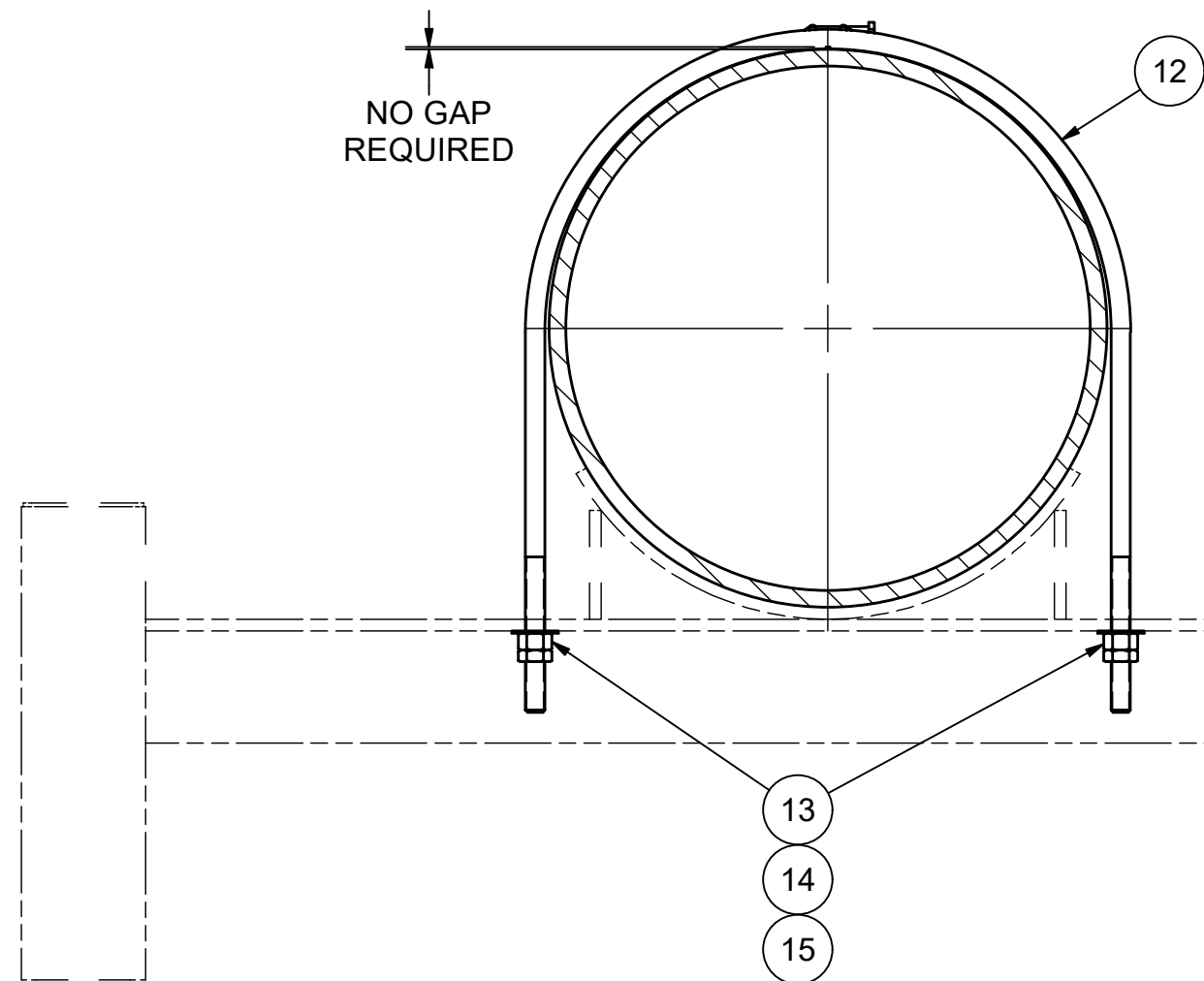
NOT FOR PRELIMINARY CONSTRUCTION

CONFIDENTIAL

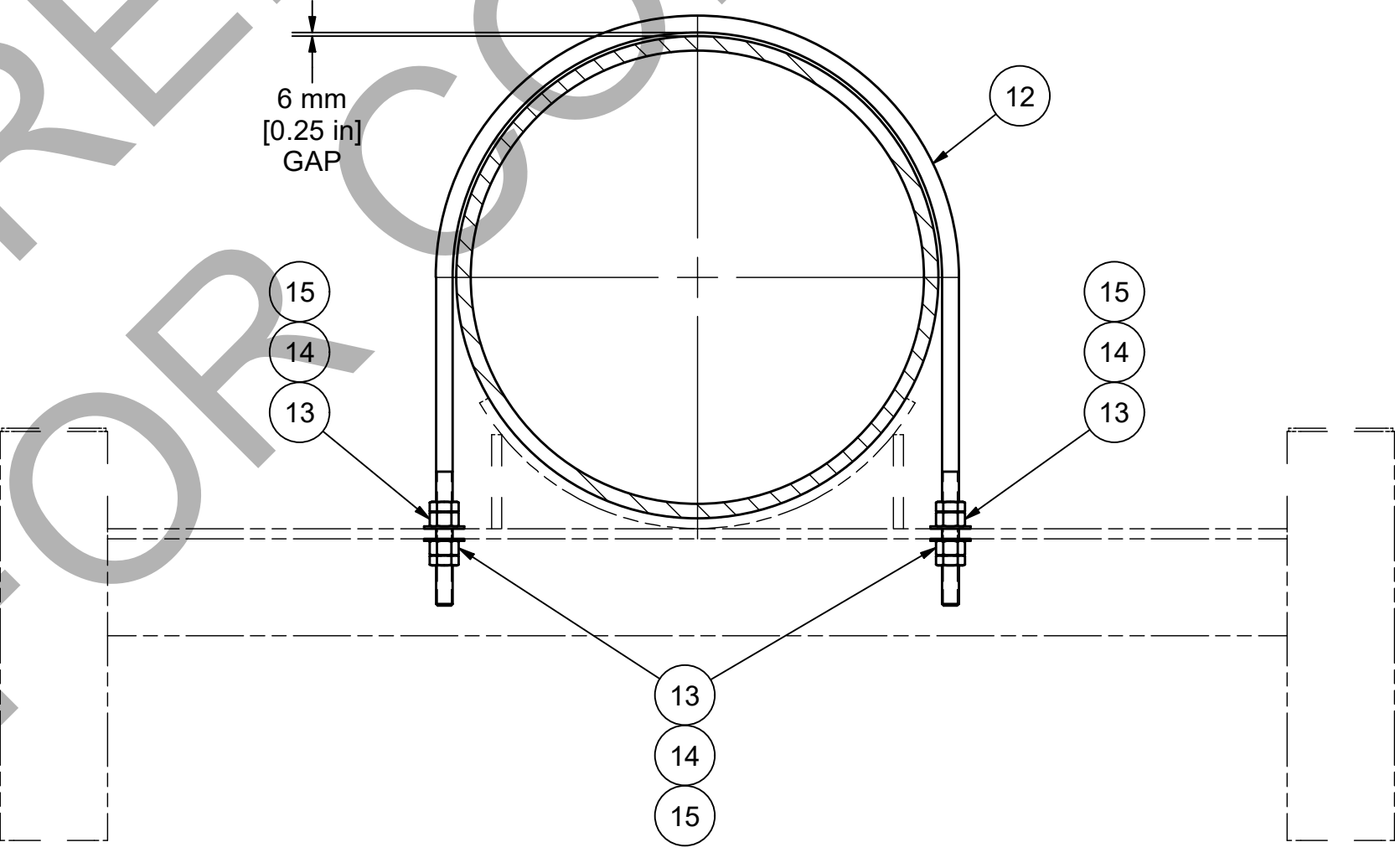
JOB NAME: NAPANEE WPCP UPGRADES		<b>AQUA-AEROBIC SYSTEMS, INC.</b> <small>A Metawater Company</small>	
JOB LOCATION: NAPANEE, ONTARIO, CANADA			
<small>DO NOT SCALE DRAWING</small>		<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES</small> <small>FRACTIONAL DIMENSIONS ±: 1/16" (±: 0.016)</small> <small>ALL TWO PLACE DECIMALS ±: 0.010</small> <small>ALL THREE PLACE DECIMALS ±: 0.005</small> <small>ALL ANGLES ±: 12"</small>	
MATERIAL:		<small>ANSI</small>	
SIMILAR TO: 911689230008		TYPE: AQUANEREDA	
A	2024-10-07	JFM	SUBMITTAL
REV	ERNECO	DATE	BY
DRAWING NAME: SLUDGE DECANter INSTL, AGS 1		DRAWING NUMBER: 9704419A30008	SCALE: 1:78
		WEIGHT:	SHEET: 1 OF 3
		DATE: 2024-10-05	SIZE: D



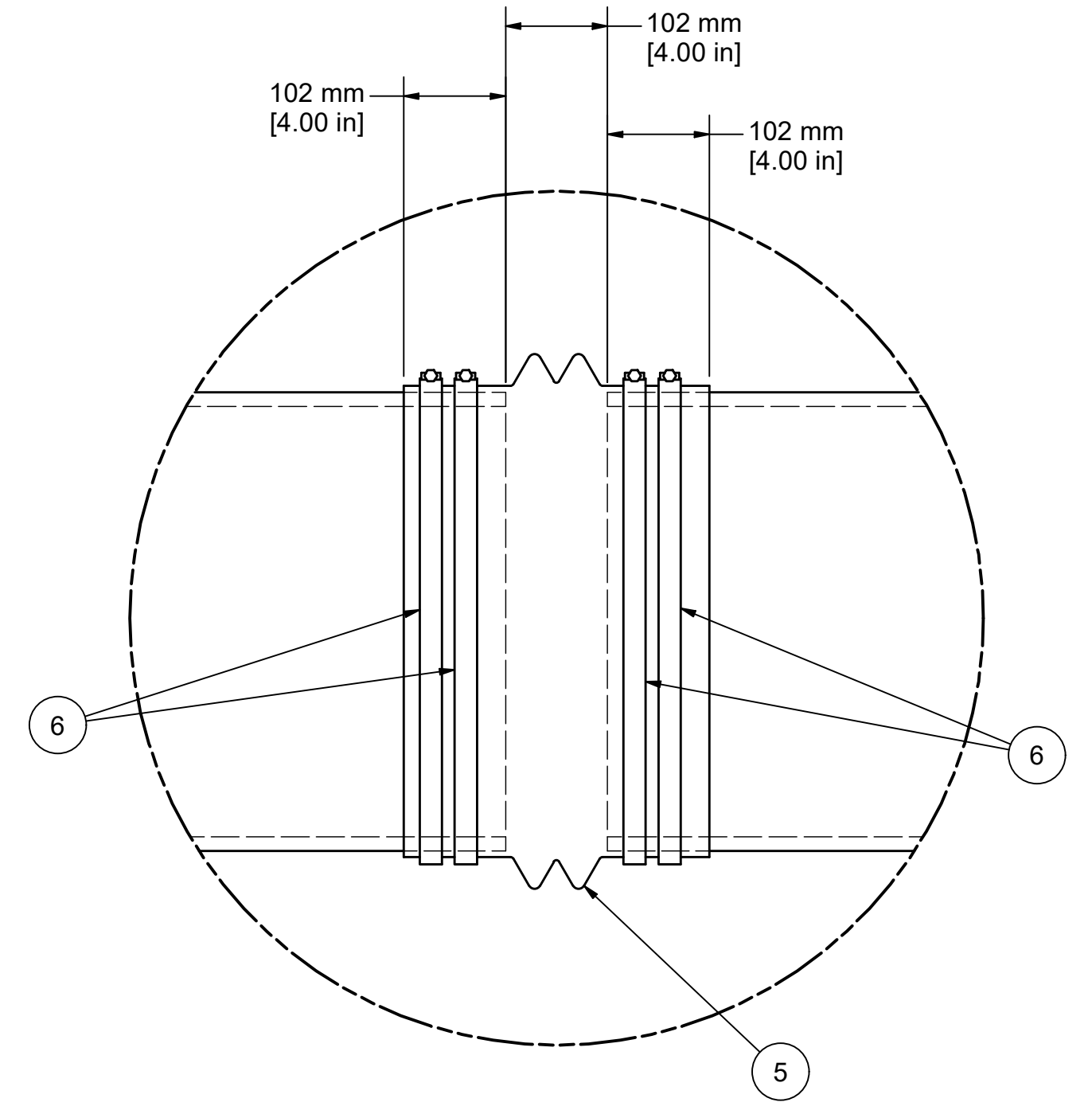
SECTION A-A



SECTION C-C  
FIXED SUPPORT DETAIL  
(1) PLACE



SECTION D-D  
SLIDING SUPPORT DETAIL  
TYP (9)

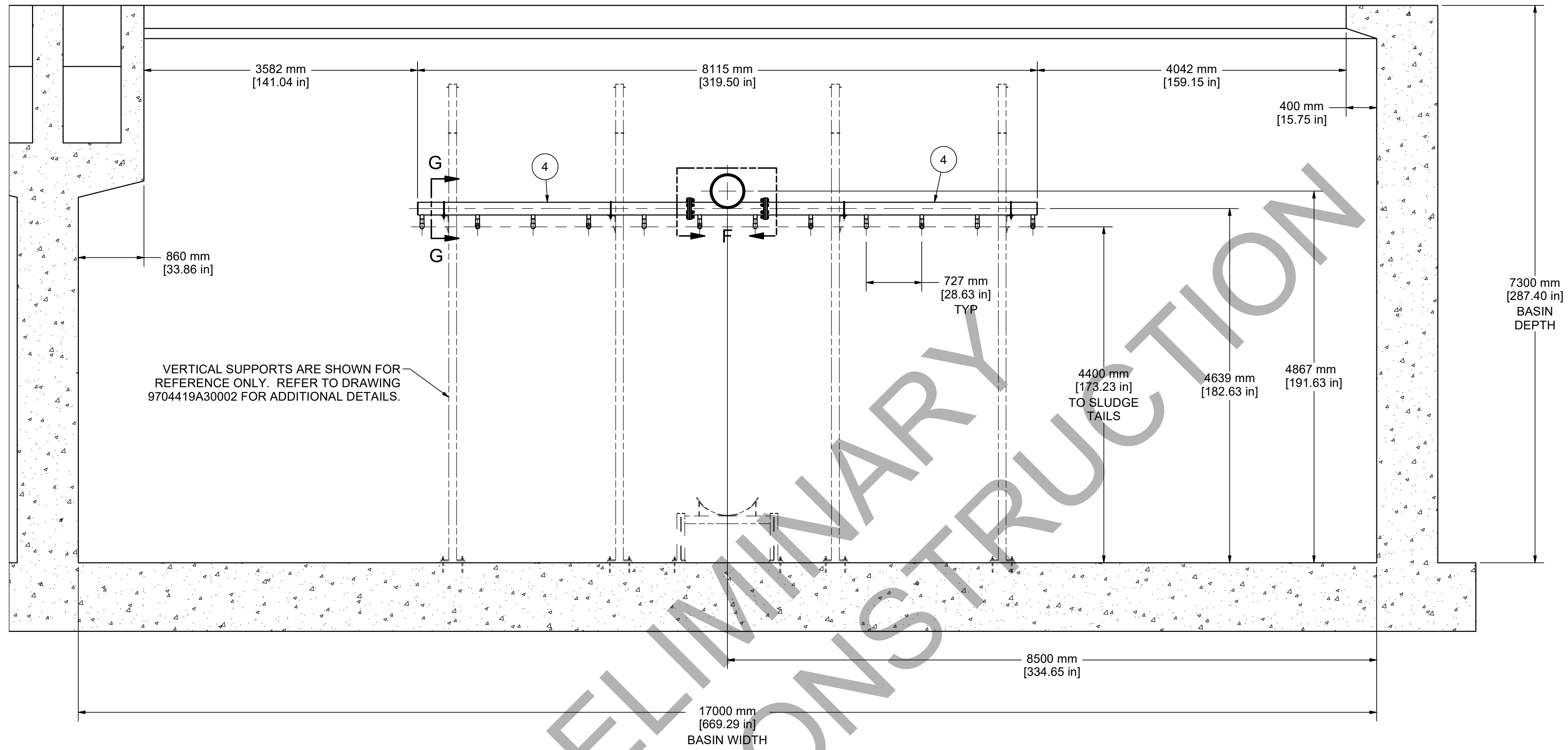


DETAIL E  
EXPANSION SLEEVE DETAIL  
TYP (2)

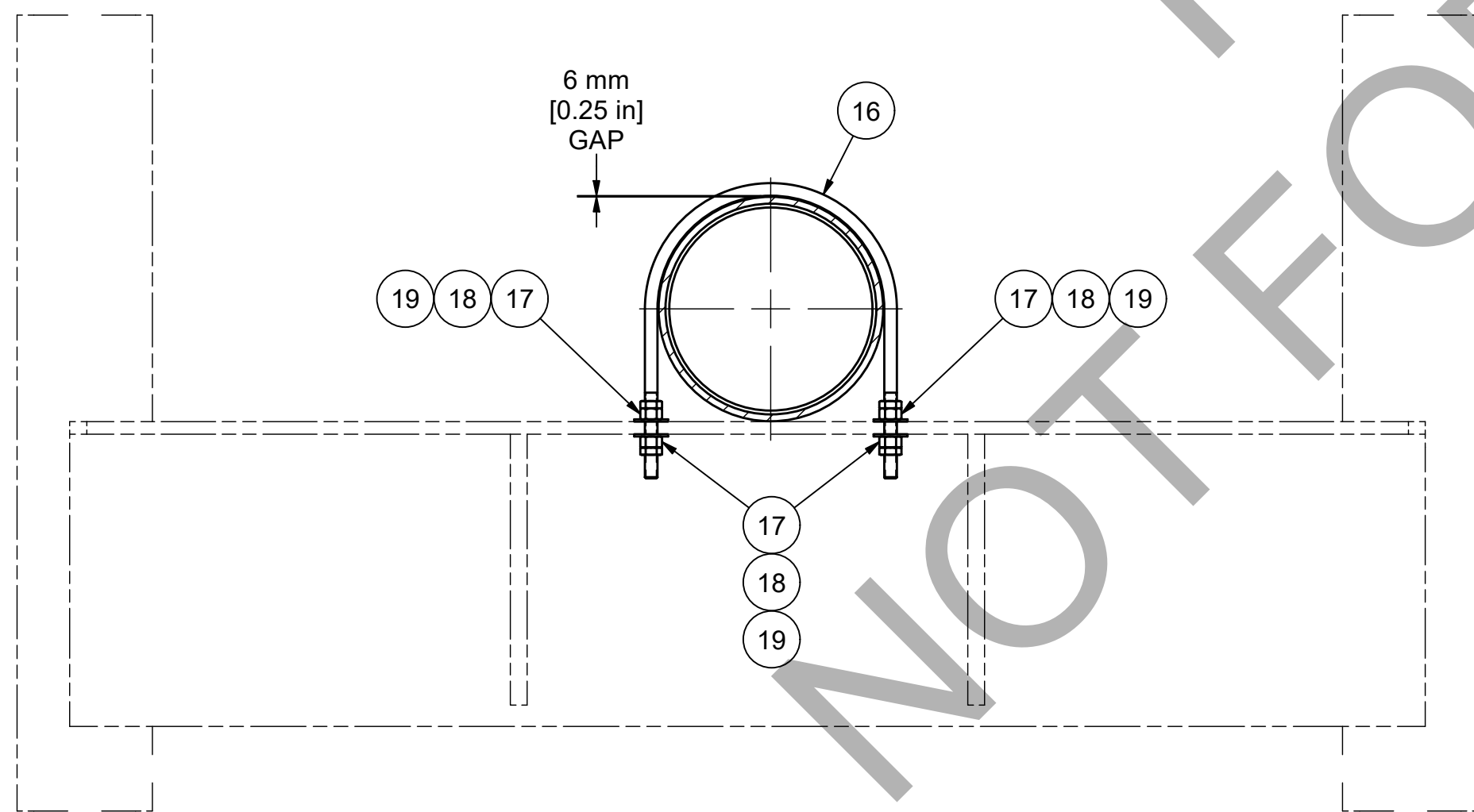
**CONFIDENTIAL**

JOB NAME: NAPANEE WPCP UPGRADES		AQUA-AEROBIC SYSTEMS, INC. A Metawater Company	
JOB LOCATION: NAPANEE, ONTARIO, CANADA		UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES	
		DO NOT SCALE DRAWING	
		FRACTIONAL DIMENSIONS: ± 1/16 ALL TWO PLACE DECIMALS: ± 0.010 ALL THREE PLACE DECIMALS: ± 0.005 ALL ANGLES: ± 1/2°	
		ANSI	
		MATERIAL:	
		SIMILAR TO: 911689230008	
		TYPE: AQUANEREDA	
A	2024-10-07	JFM	SUBMITTAL
REV	ERNECO	DATE	BY
DRAWING NAME: SLUDGE DECANTER INSTL, AGS 1		DRAWING NUMBER: 9704419A30008	
		SCALE: 1:48	
		SIZE: D	

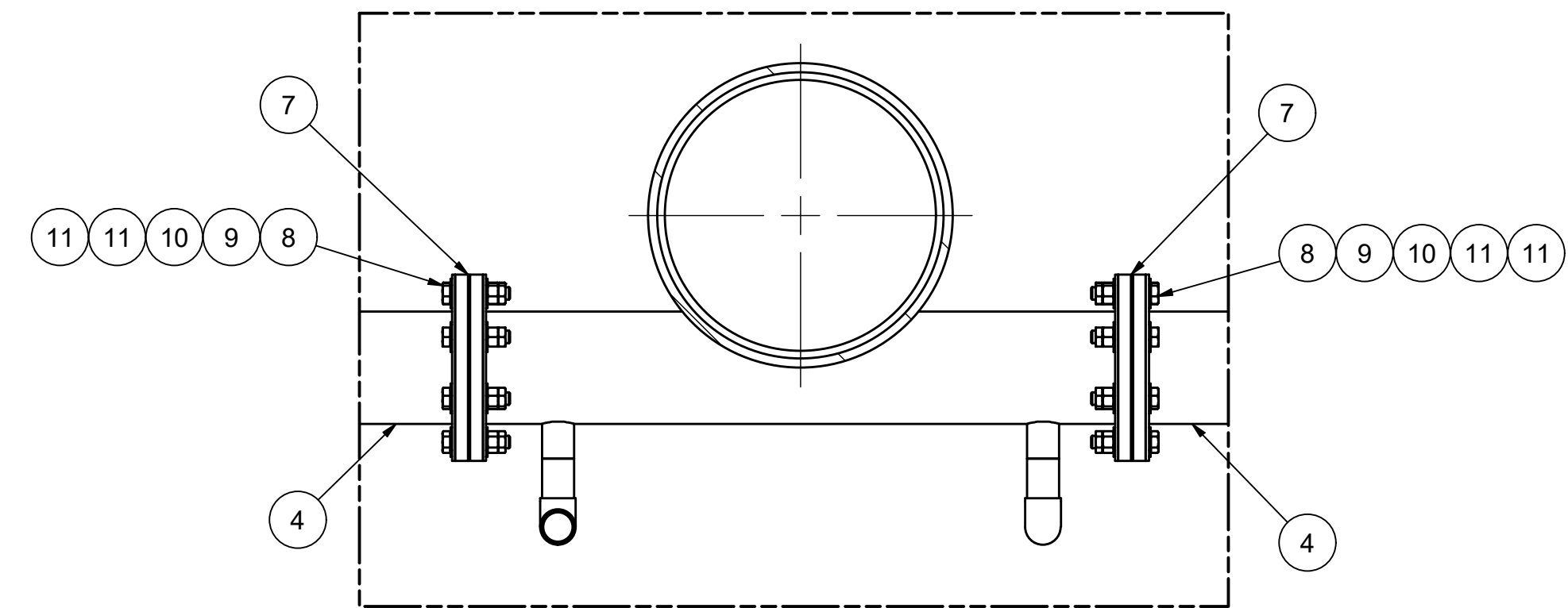




SECTION B-B



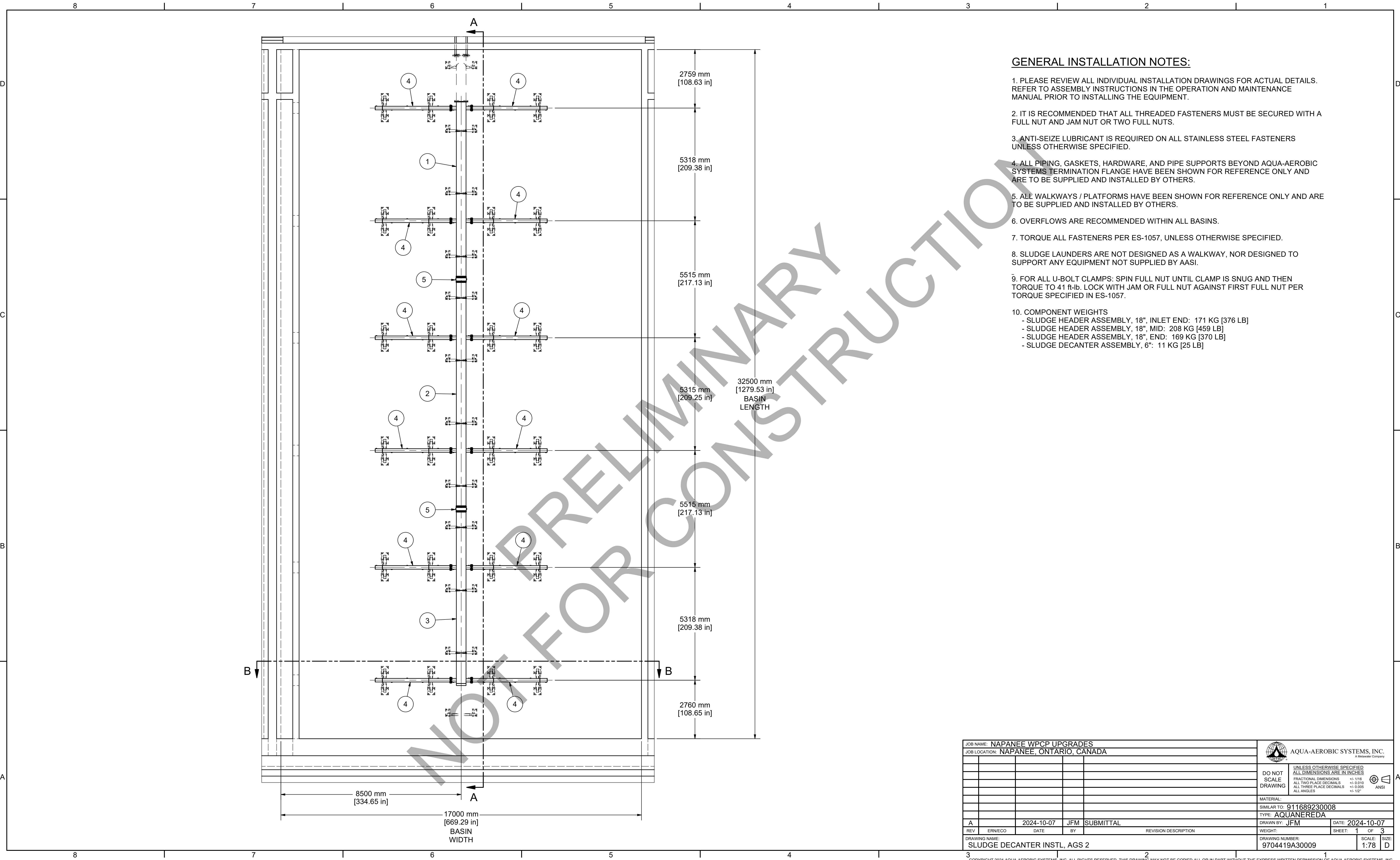
SECTION G-G  
TYP (24)



DETAIL F  
TYP (6)


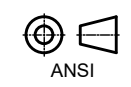
CONFIDENTIAL

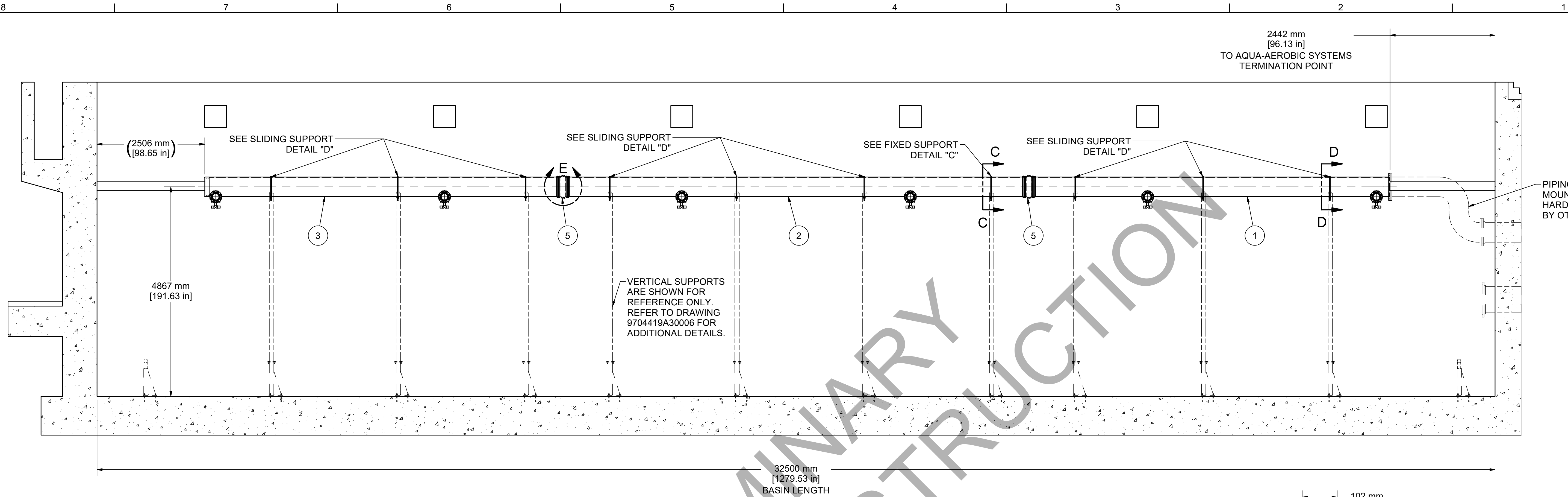
JOB NAME: NAPANEE WPCP UPGRADES		AQUA-AEROBIC SYSTEMS, INC. A Metawater Company	
JOB LOCATION: NAPANEE, ONTARIO, CANADA		UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES	
		DO NOT SCALE DRAWING	
		FRACTIONAL DIMENSIONS ±: 1/16 ALL TWO PLACE DECIMALS ±: 0.010 ALL THREE PLACE DECIMALS ±: 0.005 ALL ANGLES ±: 1/2°	
		ANSI	
		MATERIAL:	
		SIMILAR TO: 911689230008	
		TYPE: AQUANEREDA	
A		2024-10-07	JFM SUBMITTAL
REV	ERNECO	DATE	BY
DRAWING NAME:		DRAWING NUMBER:	
SLUDGE DECANTER INSTL, AGS 1		9704419A30008	
		SCALE:	SIZE:
		1:36	D



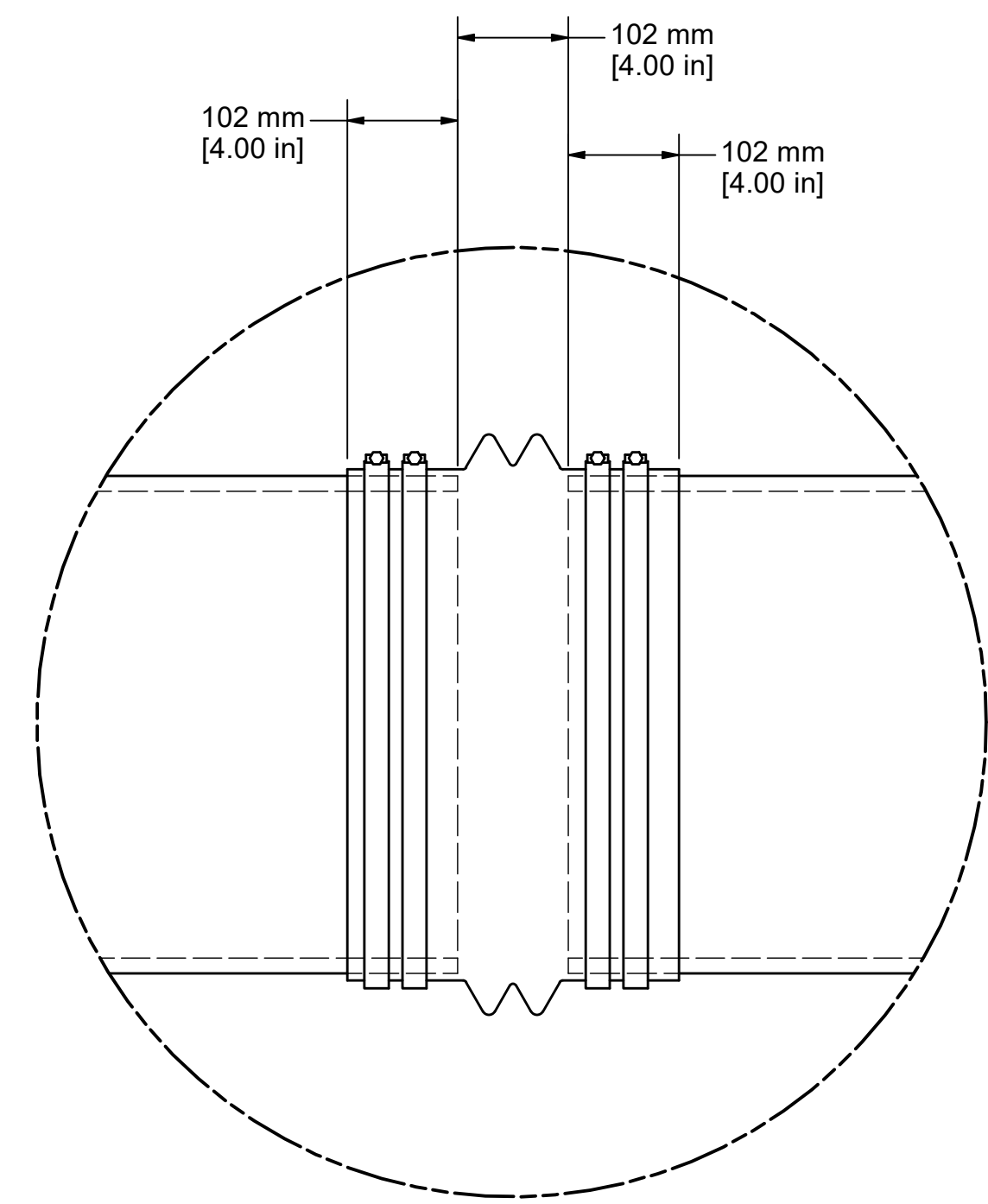
**GENERAL INSTALLATION NOTES:**

1. PLEASE REVIEW ALL INDIVIDUAL INSTALLATION DRAWINGS FOR ACTUAL DETAILS. REFER TO ASSEMBLY INSTRUCTIONS IN THE OPERATION AND MAINTENANCE MANUAL PRIOR TO INSTALLING THE EQUIPMENT.
2. IT IS RECOMMENDED THAT ALL THREADED FASTENERS MUST BE SECURED WITH A FULL NUT AND JAM NUT OR TWO FULL NUTS.
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5. ALL WALKWAYS / PLATFORMS HAVE BEEN SHOWN FOR REFERENCE ONLY AND ARE TO BE SUPPLIED AND INSTALLED BY OTHERS.
6. OVERFLOWS ARE RECOMMENDED WITHIN ALL BASINS.
7. TORQUE ALL FASTENERS PER ES-1057, UNLESS OTHERWISE SPECIFIED.
8. SLUDGE LAUNDERS ARE NOT DESIGNED AS A WALKWAY, NOR DESIGNED TO SUPPORT ANY EQUIPMENT NOT SUPPLIED BY AASI.
9. FOR ALL U-BOLT CLAMPS: SPIN FULL NUT UNTIL CLAMP IS SNUG AND THEN TORQUE TO 41 ft-lb. LOCK WITH JAM OR FULL NUT AGAINST FIRST FULL NUT PER TORQUE SPECIFIED IN ES-1057.
10. COMPONENT WEIGHTS
  - SLUDGE HEADER ASSEMBLY, 18", INLET END: 171 KG [376 LB]
  - SLUDGE HEADER ASSEMBLY, 18", MID: 208 KG [459 LB]
  - SLUDGE HEADER ASSEMBLY, 18", END: 169 KG [370 LB]
  - SLUDGE DECANTER ASSEMBLY, 6": 11 KG [25 LB]

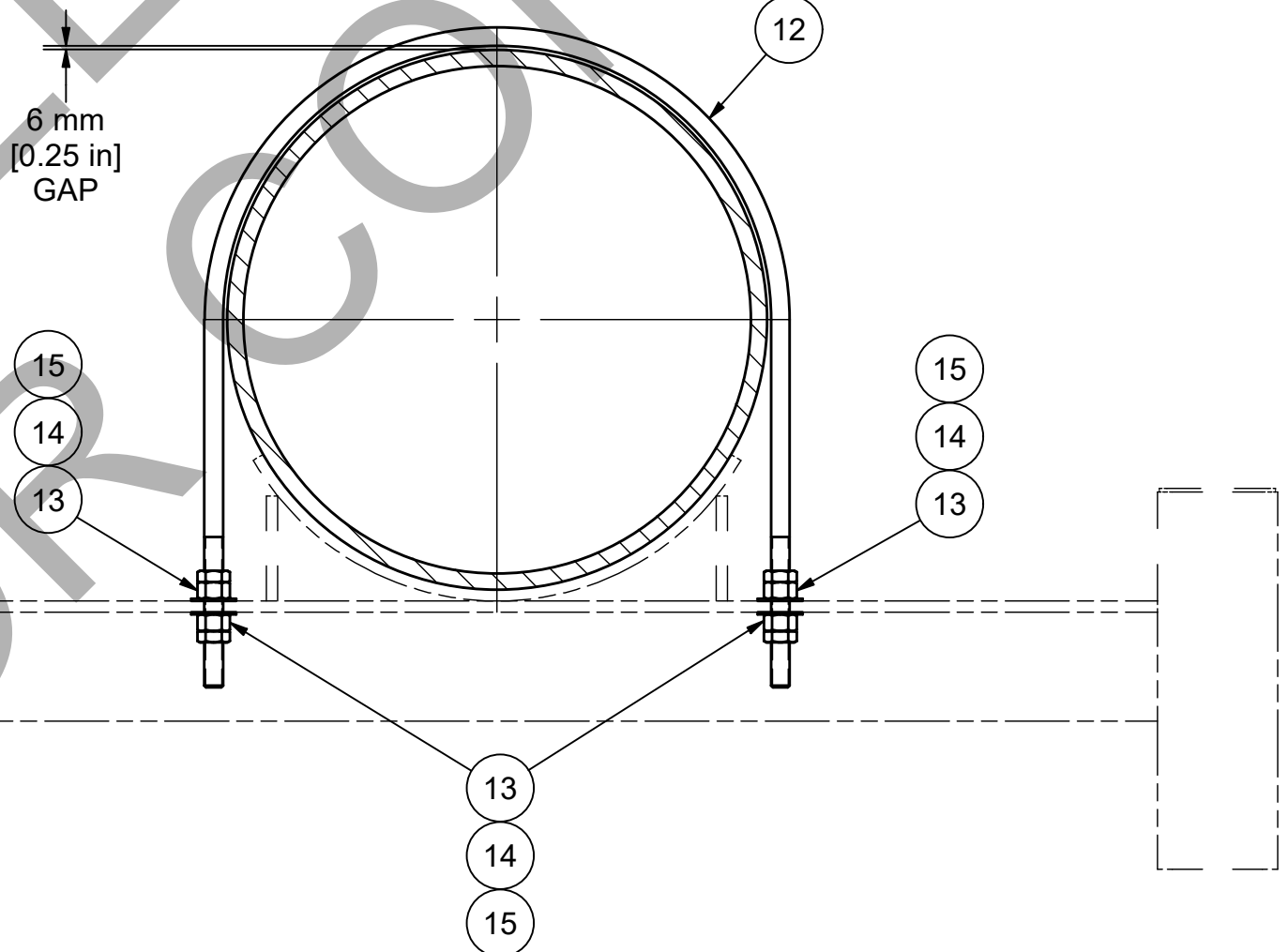
JOB NAME: NAPANEE WPCP UPGRADES				 <b>AQUA-AEROBIC SYSTEMS, INC.</b> <small>A Metawater Company</small>	
JOB LOCATION: NAPANEE, ONTARIO, CANADA					
DO NOT SCALE DRAWING <small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES</small> <small>FRACTIONAL DIMENSIONS ±1/16</small> <small>ALL TWO PLACE DECIMALS ±0.010</small> <small>ALL THREE PLACE DECIMALS ±0.005</small> <small>ALL ANGLES ±1/2°</small>					
MATERIAL:					
SIMILAR TO: 911689230008				TYPE: AQUANEREDA	
A	2024-10-07	JFM	SUBMITTAL	DRAWN BY: JFM	DATE: 2024-10-07
REV	ERNECO	DATE	BY	WEIGHT:	SHEET: 1 OF 3
DRAWING NAME: SLUDGE DECANTER INSTL, AGS 2				DRAWING NUMBER: 9704419A30009	SCALE: 1:78
				SIZE: D	



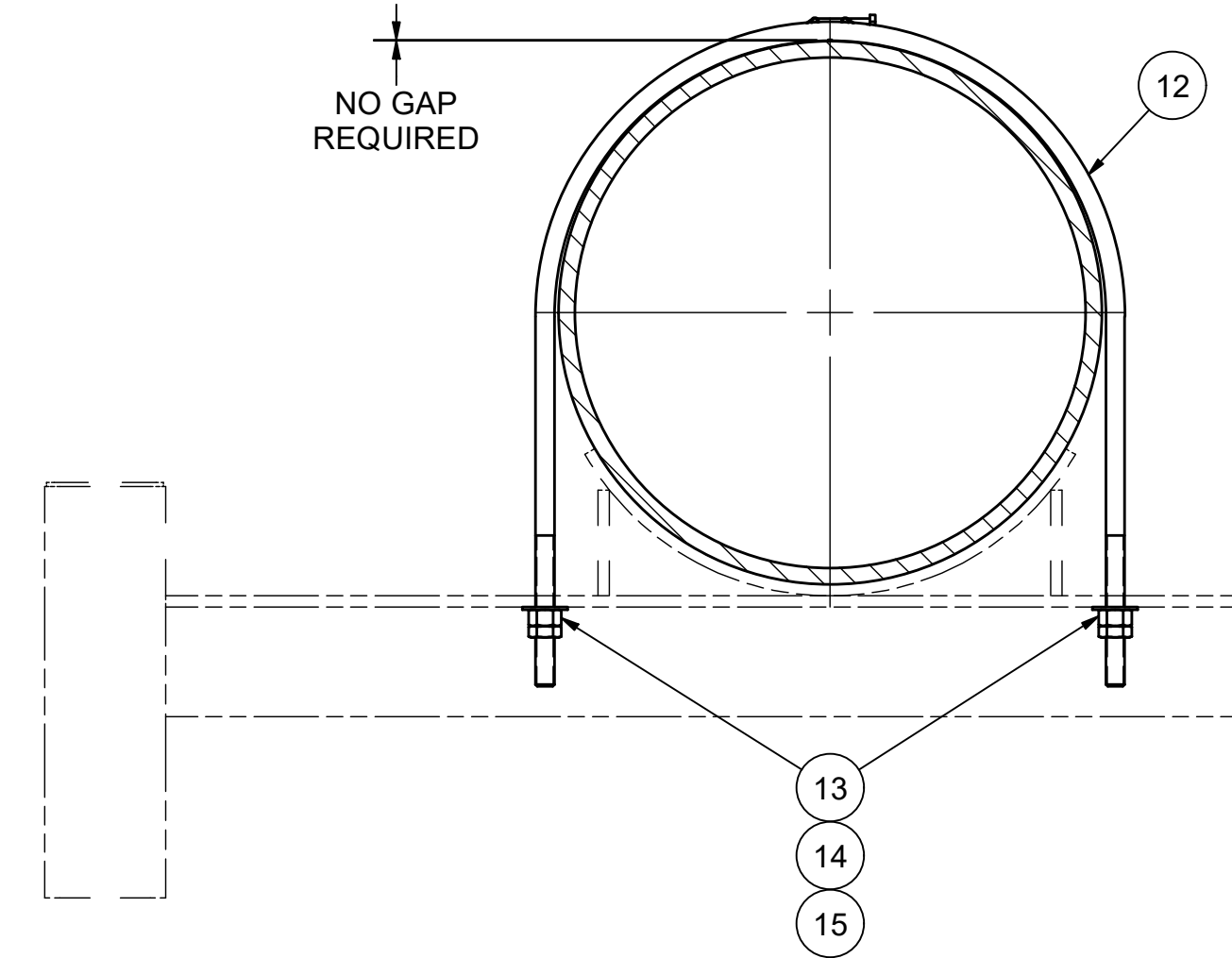
SECTION A-A



DETAIL E  
EXPANSION SLEEVE DETAIL  
TYP (2)

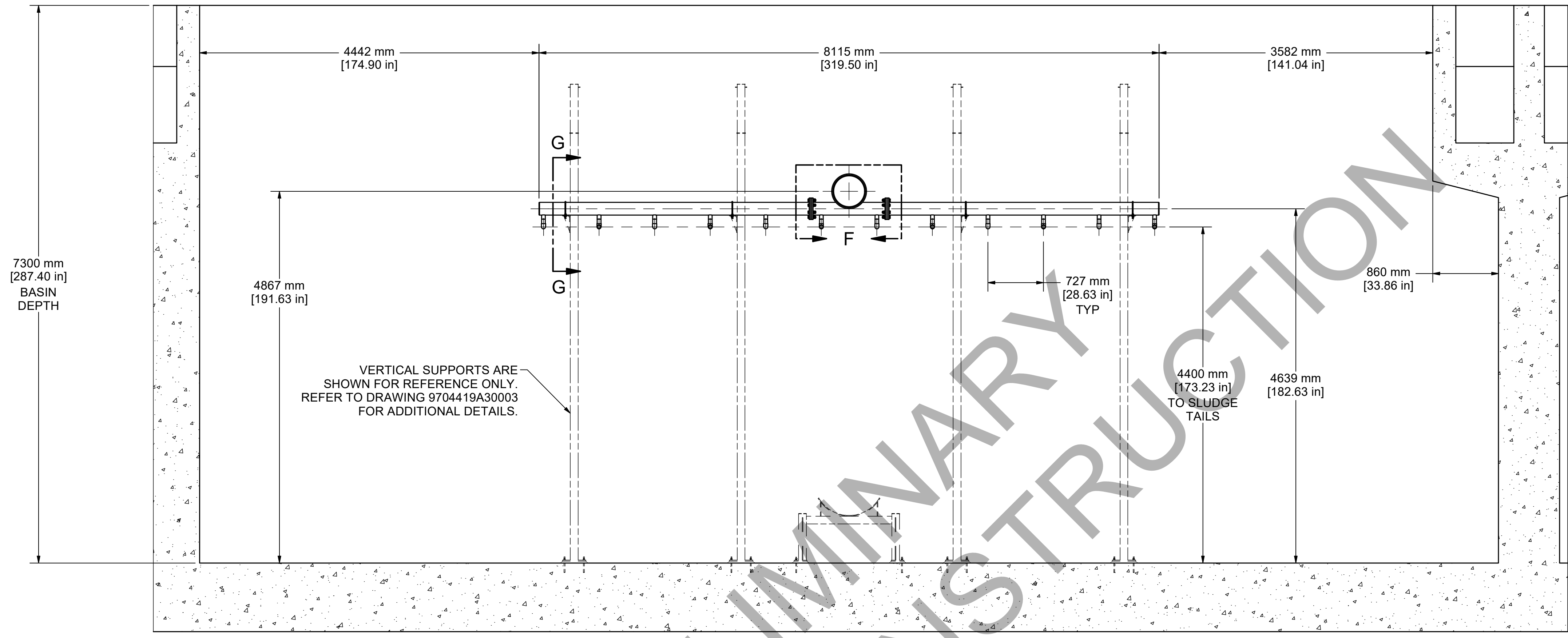


SECTION D-D  
SLIDING SUPPORT DETAIL  
TYP (9)

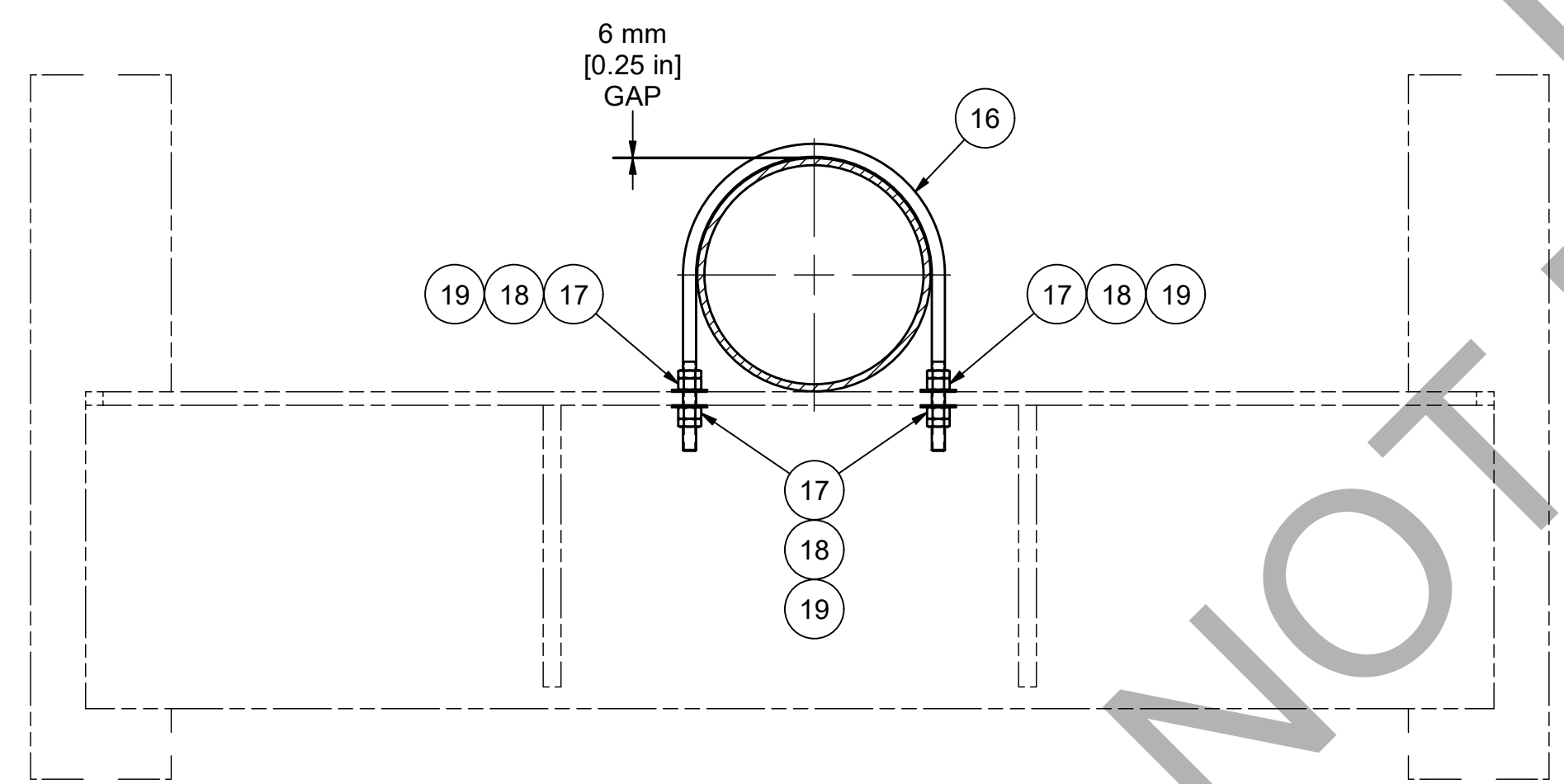


SECTION C-C  
FIXED SUPPORT DETAIL  
(1) PLACE

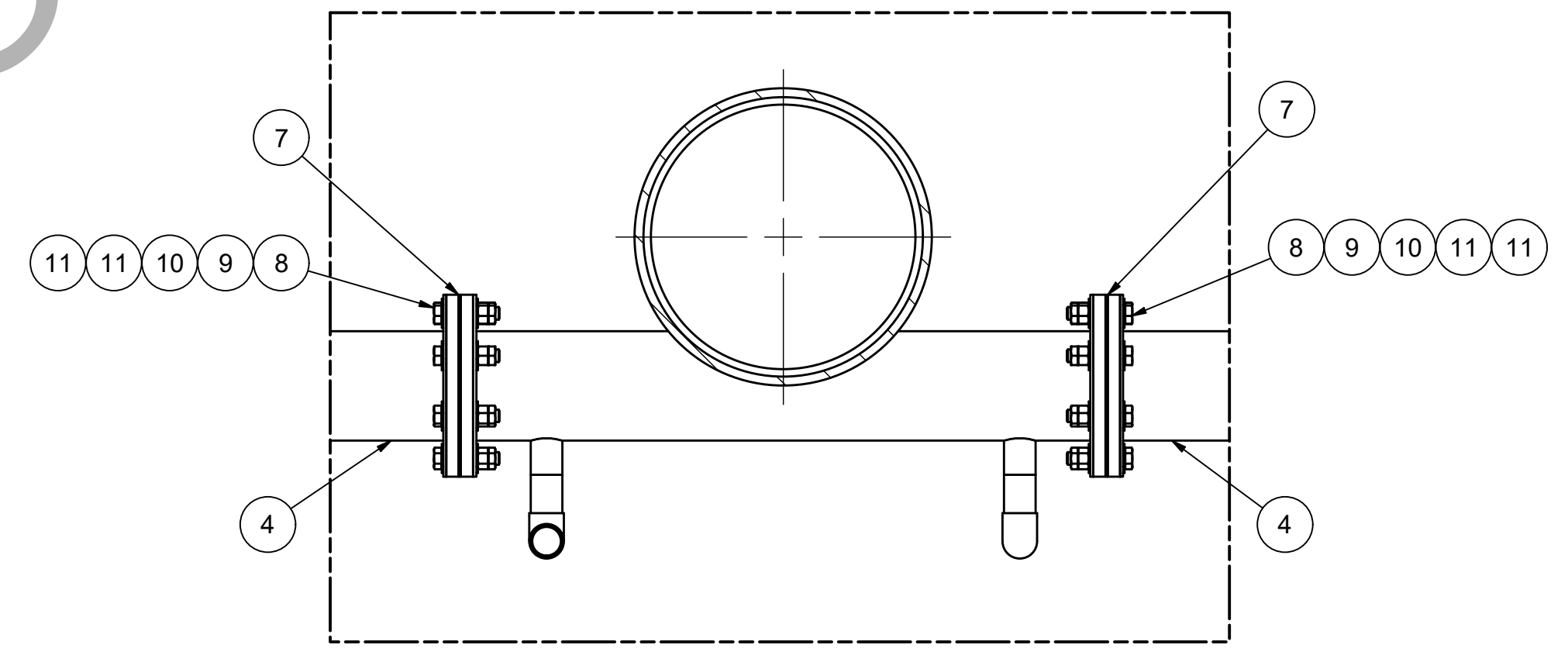
JOB NAME: NAPANEE WPCP UPGRADES				AQUA-AEROBIC SYSTEMS, INC. A Mettler Company			
JOB LOCATION: NAPANEE, ONTARIO, CANADA				DO NOT SCALE DRAWING			
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES				ANSI			
MATERIAL:				SIMILAR TO: 911689230008			
TYPE: AQUANEREDA				DRAWN BY: JFM DATE: 2024-10-07			
REV: ERNIECO DATE: BY: REVISION DESCRIPTION				WEIGHT: SHEET: 2 OF 3			
DRAWING NUMBER: 9704419A30009				SCALE: 1:48 SIZE: D			



SECTION B-B

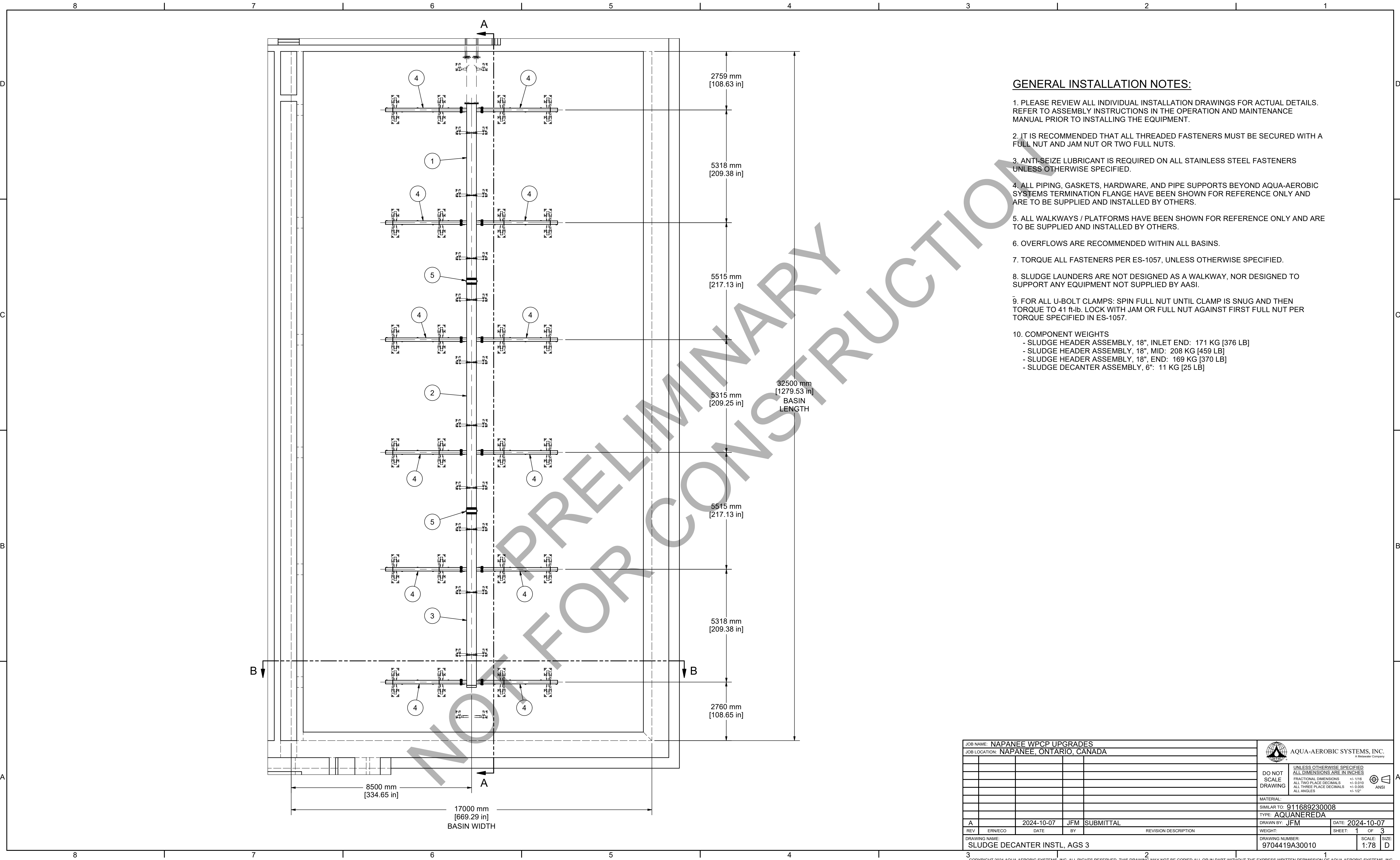


SECTION G-G  
TYP (24)



DETAIL F  
TYP (6)

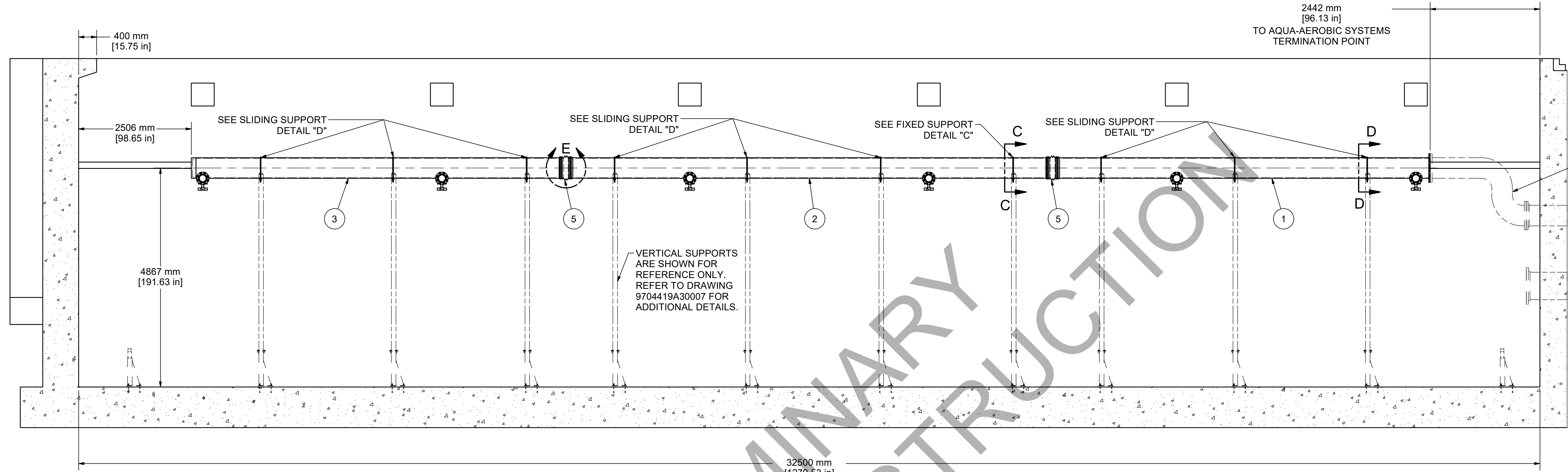
JOB NAME: NAPANEE WPCP UPGRADES				AQUA-AEROBIC SYSTEMS, INC. A Metawater Company			
JOB LOCATION: NAPANEE, ONTARIO, CANADA				UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES			
				DO NOT SCALE DRAWING			
				FRACTIONAL DIMENSIONS ±: 1/16" ALL TWO PLACE DECIMALS ±: 0.010" ALL THREE PLACE DECIMALS ±: 0.005" ALL ANGLES ±: 1/2" ANSI			
MATERIAL:				SIMILAR TO: 911689230008			
TYPE: AQUANEREDA				DRAWN BY: JFM DATE: 2024-10-07			
REV: ERNIECO DATE: BY: REVISION DESCRIPTION				WEIGHT: SHEET: 3 OF 3			
DRAWING NAME: SLUDGE DECANTER INSTL, AGS 2				DRAWING NUMBER: 9704419A30009 SCALE: 1:36 SIZE: D			



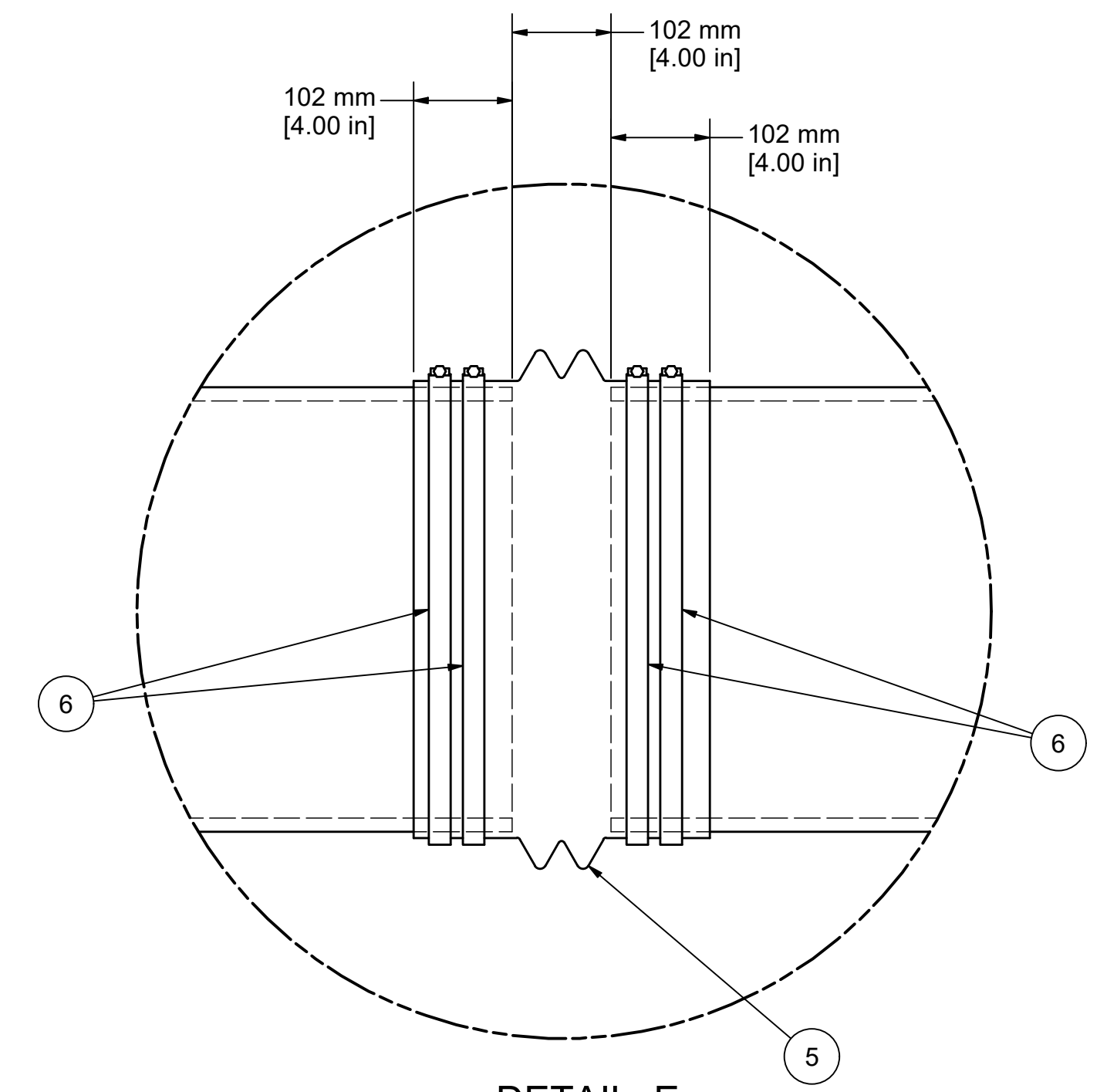
**GENERAL INSTALLATION NOTES:**

1. PLEASE REVIEW ALL INDIVIDUAL INSTALLATION DRAWINGS FOR ACTUAL DETAILS. REFER TO ASSEMBLY INSTRUCTIONS IN THE OPERATION AND MAINTENANCE MANUAL PRIOR TO INSTALLING THE EQUIPMENT.
2. IT IS RECOMMENDED THAT ALL THREADED FASTENERS MUST BE SECURED WITH A FULL NUT AND JAM NUT OR TWO FULL NUTS.
3. ANTI-SEIZE LUBRICANT IS REQUIRED ON ALL STAINLESS STEEL FASTENERS UNLESS OTHERWISE SPECIFIED.
4. ALL PIPING, GASKETS, HARDWARE, AND PIPE SUPPORTS BEYOND AQUA-AEROBIC SYSTEMS TERMINATION FLANGE HAVE BEEN SHOWN FOR REFERENCE ONLY AND ARE TO BE SUPPLIED AND INSTALLED BY OTHERS.
5. ALL WALKWAYS / PLATFORMS HAVE BEEN SHOWN FOR REFERENCE ONLY AND ARE TO BE SUPPLIED AND INSTALLED BY OTHERS.
6. OVERFLOWS ARE RECOMMENDED WITHIN ALL BASINS.
7. TORQUE ALL FASTENERS PER ES-1057, UNLESS OTHERWISE SPECIFIED.
8. SLUDGE LAUNDERS ARE NOT DESIGNED AS A WALKWAY, NOR DESIGNED TO SUPPORT ANY EQUIPMENT NOT SUPPLIED BY AASI.
9. FOR ALL U-BOLT CLAMPS: SPIN FULL NUT UNTIL CLAMP IS SNUG AND THEN TORQUE TO 41 ft-lb. LOCK WITH JAM OR FULL NUT AGAINST FIRST FULL NUT PER TORQUE SPECIFIED IN ES-1057.
10. COMPONENT WEIGHTS
  - SLUDGE HEADER ASSEMBLY, 18", INLET END: 171 KG [376 LB]
  - SLUDGE HEADER ASSEMBLY, 18", MID: 208 KG [459 LB]
  - SLUDGE HEADER ASSEMBLY, 18", END: 169 KG [370 LB]
  - SLUDGE DECANTER ASSEMBLY, 6": 11 KG [25 LB]

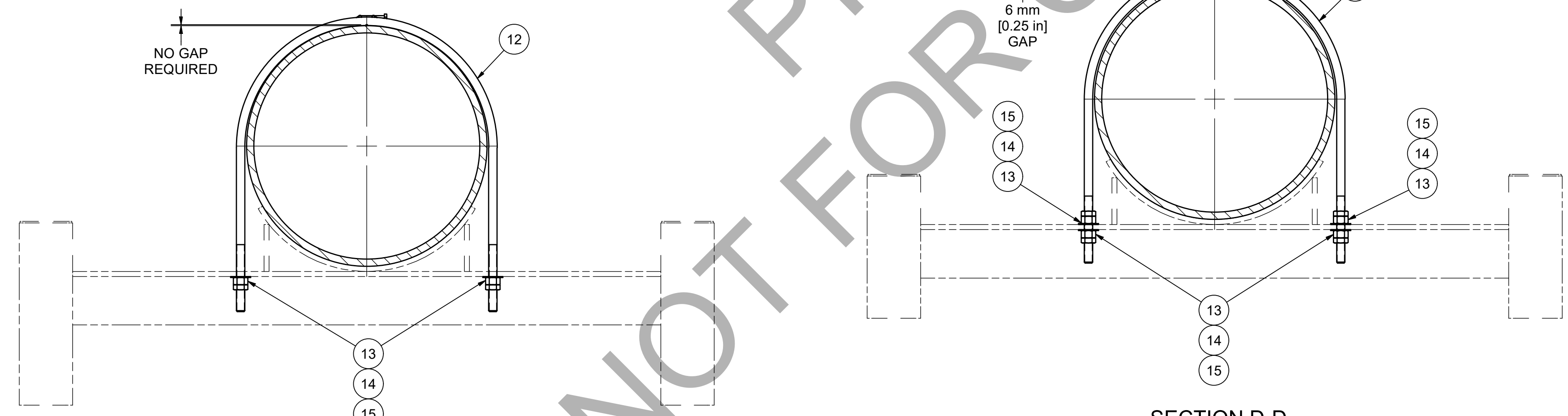
JOB NAME: NAPANEE WPCP UPGRADES		AQUA-AEROBIC SYSTEMS, INC. <small>A Mettler Company</small>	
JOB LOCATION: NAPANEE, ONTARIO, CANADA		<small>DO NOT SCALE DRAWING</small> <small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES</small>	
		<small>FRACTIONAL DIMENSIONS ±: 1/16</small> <small>ALL TWO PLACE DECIMALS ±: 0.010</small> <small>ALL THREE PLACE DECIMALS ±: 0.005</small> <small>ALL ANGLES ±: 12"</small>	
MATERIAL:		ANSI	
SIMILAR TO: 911689230008		TYPE: AQUANEREDA	
A	2024-10-07	JFM	SUBMITTAL
REV	ERNECO	DATE	BY
DRAWING NAME: SLUDGE DECANTER INSTL, AGS 3		DRAWING NUMBER: 9704419A30010	
		SCALE: 1:78	
		SHEET: 1 OF 3	
		DATE: 2024-10-07	
		REVISION DESCRIPTION	



SECTION A-A



DETAIL E  
EXPANSION SLEEVE DETAIL  
TYP (2)



SECTION C-C  
SCALE 1/6

SECTION D-D  
SLIDING SUPPORT DETAIL  
TYP (9)

JOB NAME: NAPANEE WPCP UPGRADES		AQUA-AEROBIC SYSTEMS, INC. A Mettler Company	
JOB LOCATION: NAPANEE, ONTARIO, CANADA		DO NOT SCALE DRAWING	
MATERIAL:		UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES	
SIMILAR TO: 911689230008		FRACTIONAL DIMENSIONS ±.1/16	
TYPE: AQUANEREDA		ALL TWO PLACE DECIMALS ±.010	
DRAWN BY: JFM		ALL THREE PLACE DECIMALS ±.005	
DATE: 2024-10-07		ALL ANGLES ±.12°	
BY: JFM		ANSI	
REVISION DESCRIPTION		DRAWING NUMBER: 9704419A30010	
REV: ERNECO		SCALE: 1:48	
DATE		SHEET: 2 OF 3	
BY		SIZE: D	
SUBMITTAL		DRAWING NUMBER: 9704419A30010	
DATE		SCALE: 1:48	
REVISION DESCRIPTION		SHEET: 2 OF 3	
DATE		SIZE: D	
BY		DRAWING NUMBER: 9704419A30010	
SUBMITTAL		SCALE: 1:48	
DATE		SHEET: 2 OF 3	
BY		SIZE: D	

8 7 6 5 4 3 2 1

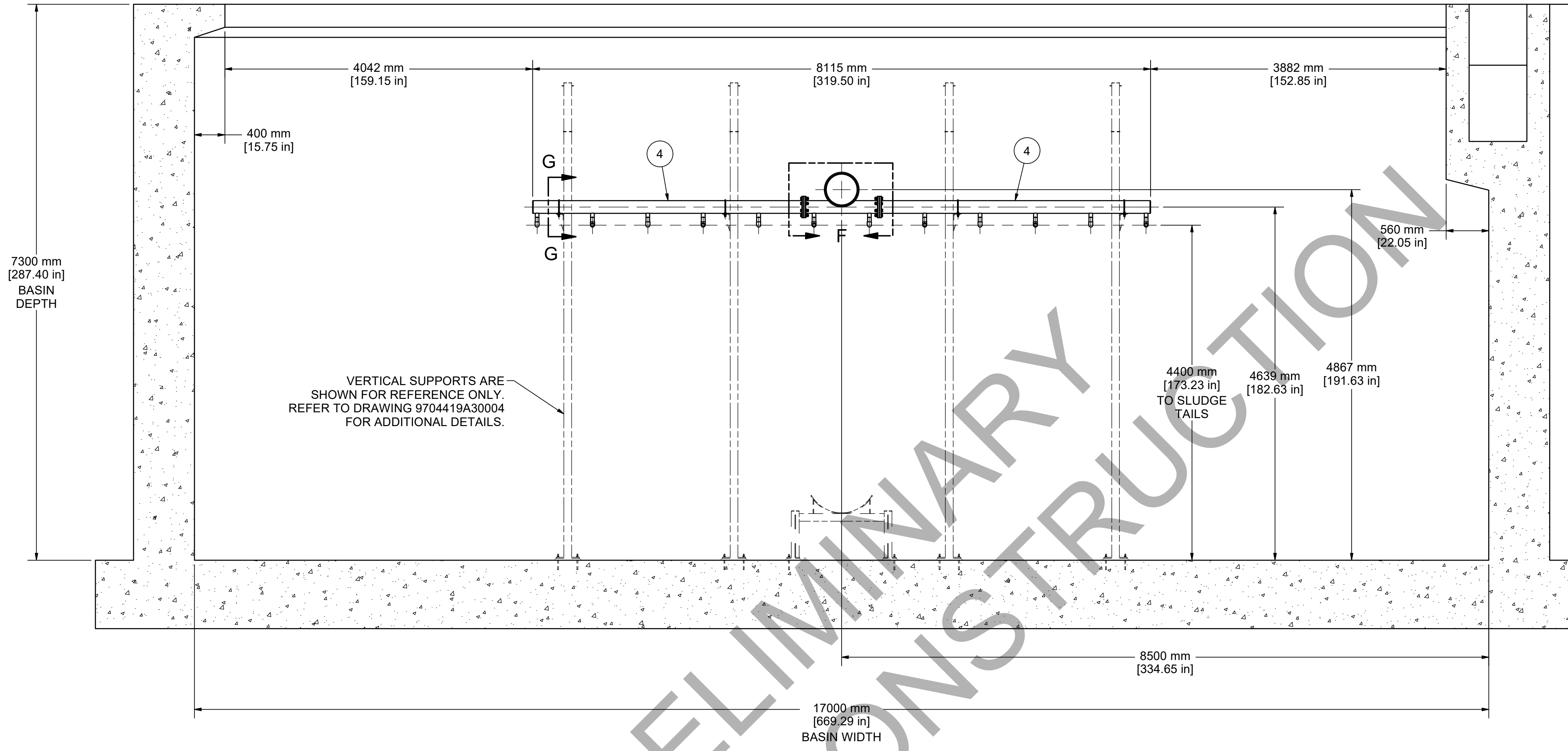
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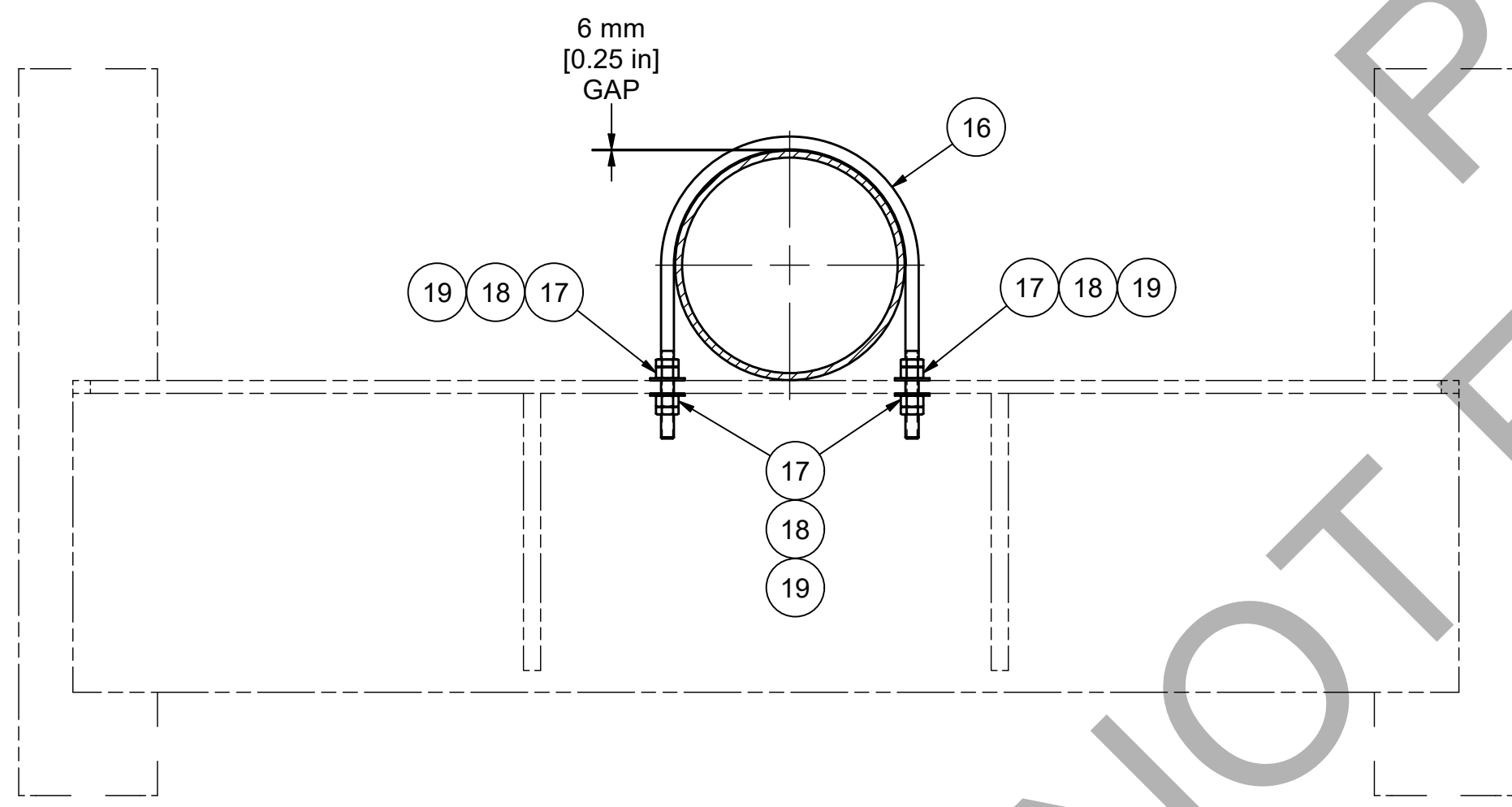
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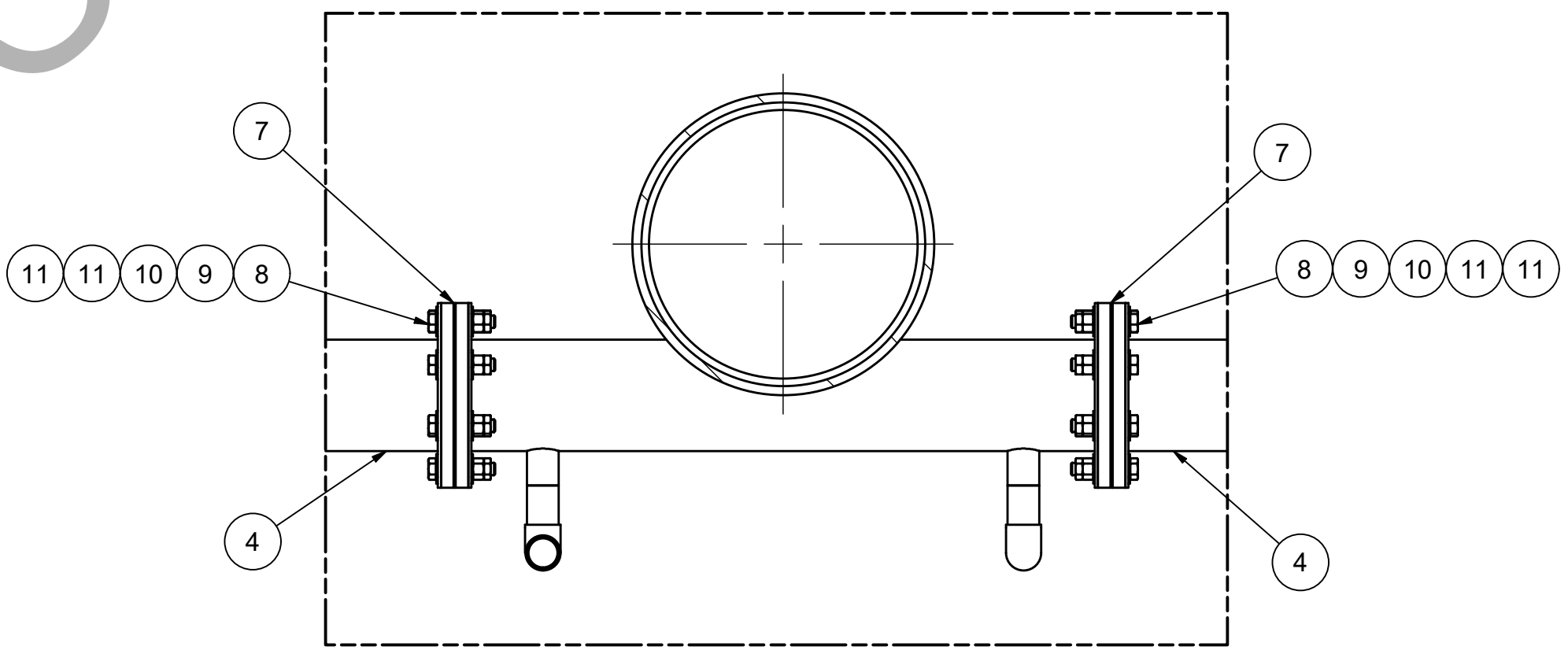
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SECTION B-B

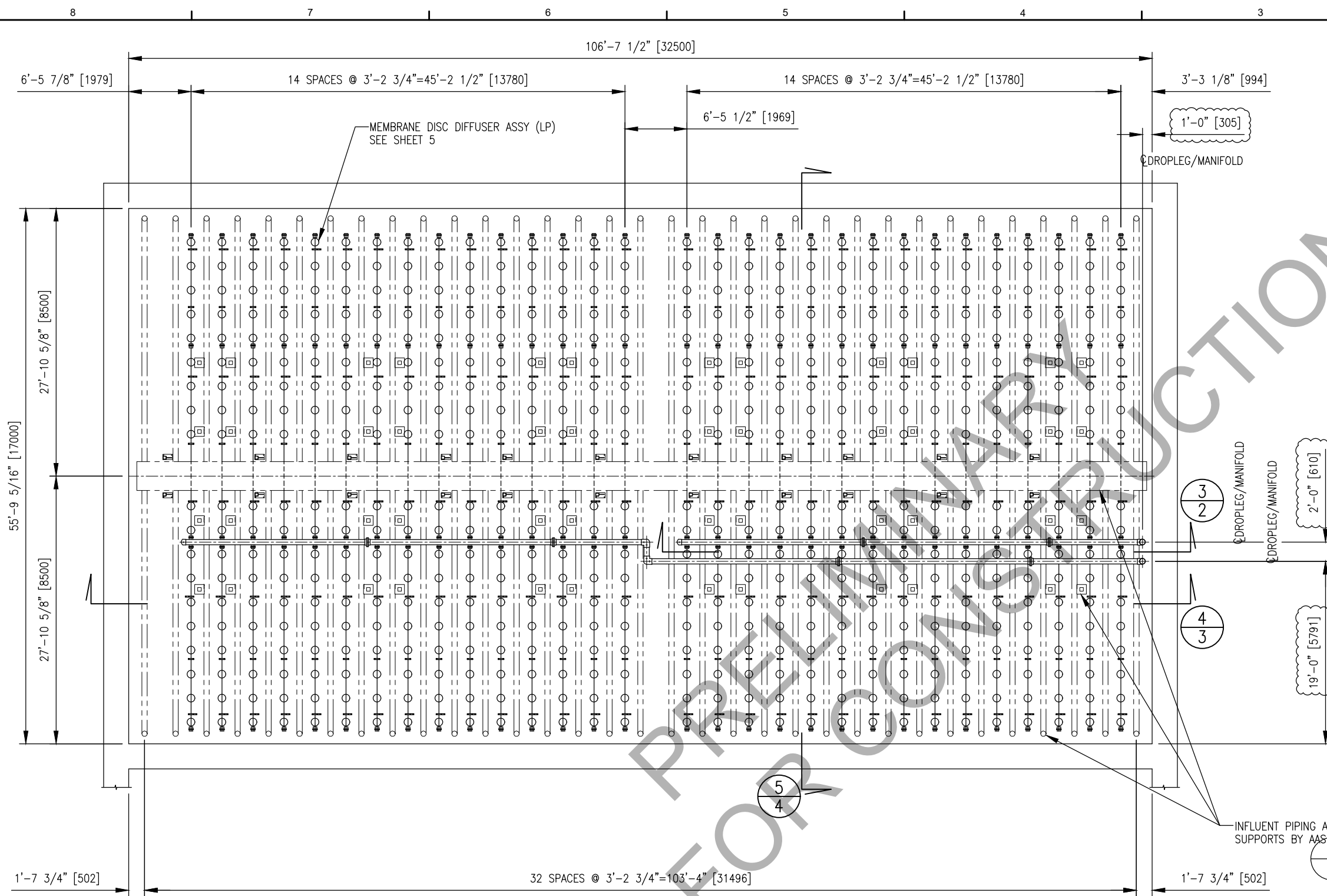


SECTION G-G  
TYP (24)

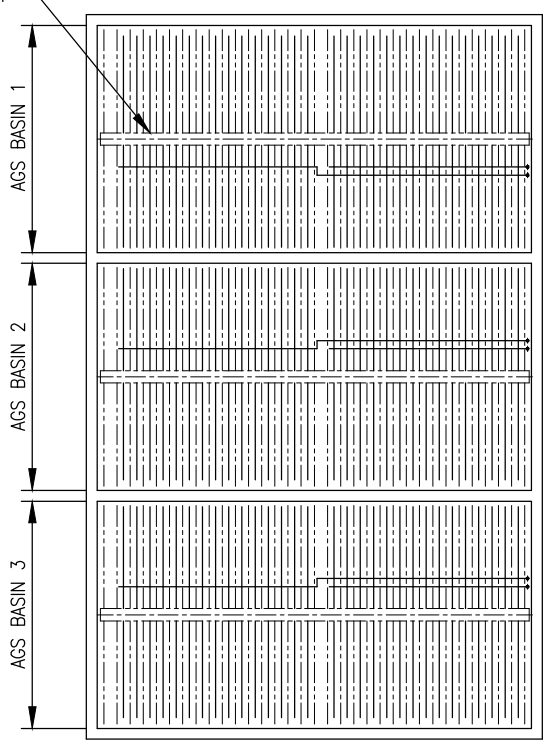


DETAIL F  
TYP (6)

JOB NAME: NAPANEE WPCP UPGRADES		AQUA-AEROBIC SYSTEMS, INC. <small>A Metawater Company</small>	
JOB LOCATION: NAPANEE, ONTARIO, CANADA		UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES	
		DO NOT SCALE DRAWING	
		FRACTIONAL DIMENSIONS ± 1/16 ALL TWO PLACE DECIMALS ± 0.010 ALL THREE PLACE DECIMALS ± 0.005 ALL ANGLES ± 1/2°	
		ANSI	
		MATERIAL:	
		SIMILAR TO: 911689230008	
		TYPE: AQUANEREDA	
A	2024-10-07	JFM	SUBMITTAL
REV	ERNECO	DATE	BY
DRAWING NAME:		DRAWING NUMBER:	
SLUDGE DECANTER INSTL, AGS 3		9704419A30010	
		SCALE:	SIZE:
		1:36	D



FOR ENLARGED PLAN VIEW OF AGS BASIN 1 SEE  $\frac{2}{1}$



AGS BASINS 1 - 3  
KEY PLAN  $\frac{1}{1}$

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9-19-24

NAPANEE, ONTARIO, CANADA  
WWTP

AGS BASINS 1 - 3  
PLAN VIEW

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B					
A					
REV	DATE	REVISION	BY	DATE	REVISION

DRAWN BY: SP	DATE: 9-19-24	JOB #: 24-3140
CHKD BY: SI	DATE: 9-19-24	
APPRD BY: JCT	DATE: 9-19-24	SHEET S-1

- AGS BASINS 1, 2 & 3  
GRID INFORMATION
- 3- TANK(S)
  - 2- GRID(S) PER TANK
  - 15- AIR HEADERS PER GRID
  - 19- DIFFUSERS PER AIR HEADER
  - 285- DIFFUSERS PER GRID
  - 1710- TOTAL DIFFUSERS INSTALLED

AGS BASIN  
LOWER LEVEL  
PLAN VIEW  $\frac{2}{2}$

- 1 REQUIRED AS SHOWN (BASIN 1)
- 2 REQUIRED MIRROR IMAGE (BASINS 2 & 3)

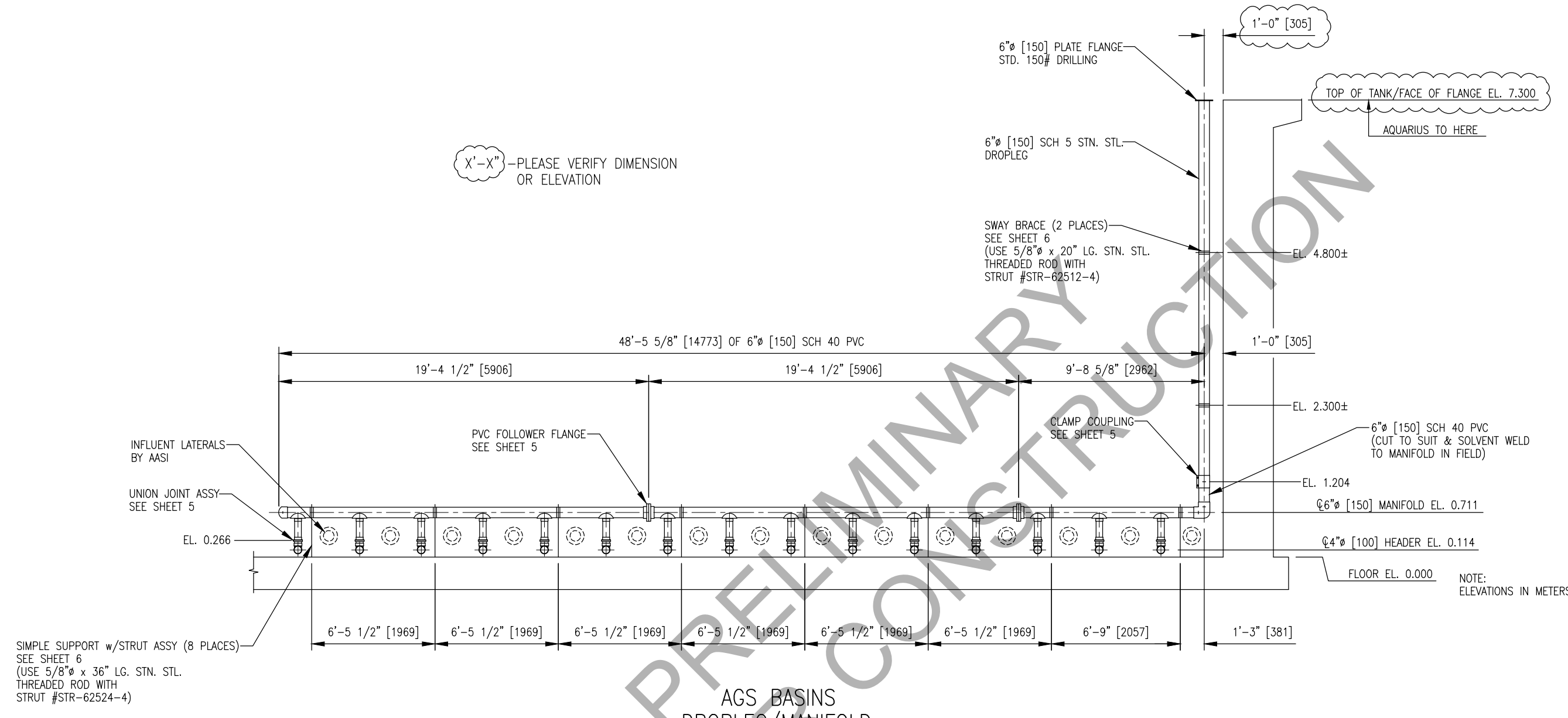
X'-X' - PLEASE VERIFY DIMENSION OR ELEVATION

JOB NAME: NAPANEE WPCP UPGRADES		JOB LOCATION: NAPANEE, ONTARIO, CANADA		AQUA-AEROBIC SYSTEMS, INC. <small>A Waterstar Company</small>	
DO NOT SCALE DRAWING		UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES		ANSI	
MATERIAL:		SIMILAR TO:		TYPE: AQUARIUS	
DRAWN BY: CJC		DATE: 2024-10-08		SCALE: 1/72	
DRAWING NUMBER: 9704419A30011		SHEET: 1 OF 7		SIZE: D	

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REV	ERN / ECO	DATE	BY	REVISION DESCRIPTION
A	R22845	2024-08-20	JFM	PRE-ORDER





AGS BASINS  
DROPLEG/MANIFOLD  
SECTION 3  
3 REQUIRED

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9-19-24

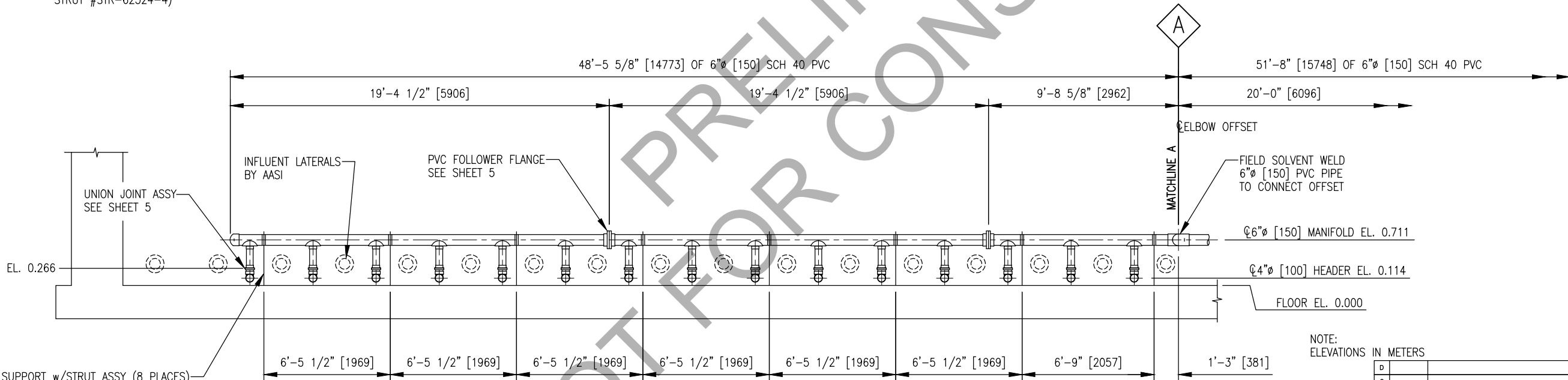
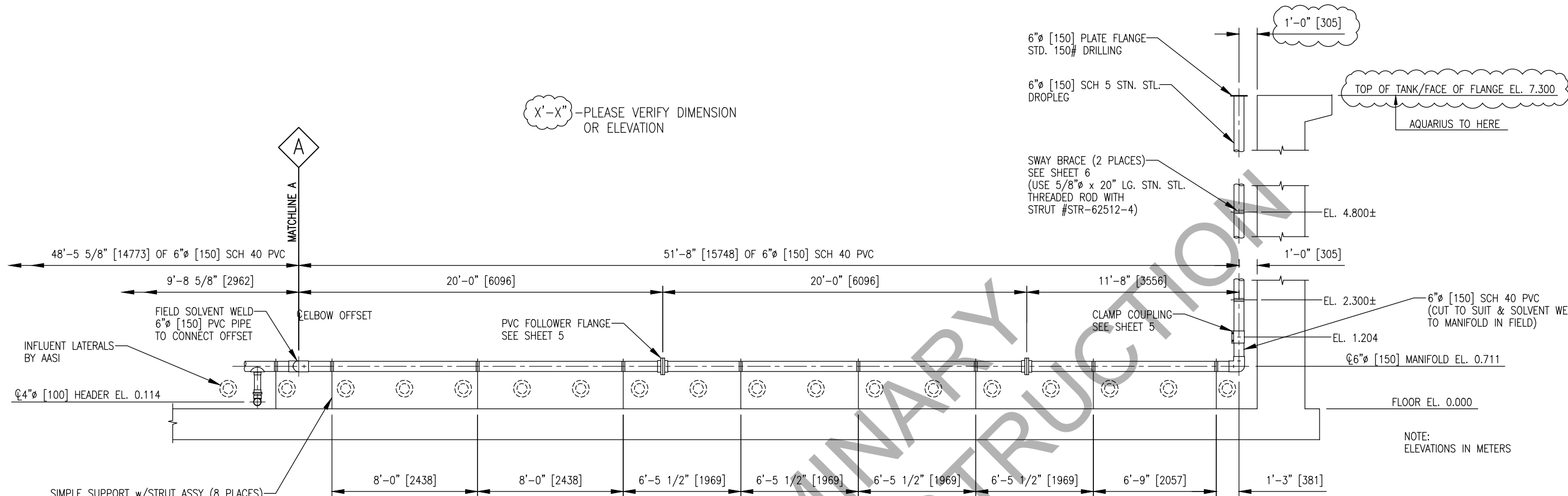
NAPANEE, ONTARIO, CANADA  
WWTP  
AGS BASINS  
SECTIONS

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TECHNOLOGIES, LLC.

D					
C					
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A					
REV	DATE	REVISION	BY	APPRD BY: JCT	DATE: 9-19-24

JOB NAME: NAPANEE WPCP UPGRADES		JOB LOCATION: NAPANEE, ONTARIO, CANADA		AQUA-AEROBIC SYSTEMS, INC. <small>A Waterstar Company</small>	
DRAWN BY: SP		DATE: 9-19-24	JOB #: 24-3140		
CHKD BY: SI		DATE: 9-19-24	SHEET S-2		
MATERIAL:		UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES			
SIMILAR TO:		DO NOT SCALE DRAWING			
TYPE: AQUARIUS		FRACTIONAL DIMENSIONS ±0.118			
DRAWN BY: CJC		ALL TWO PLACE DECIMALS ±0.010			
DATE: 2024-10-08		ALL THREE PLACE DECIMALS ±0.005			
WEIGHT:		ALL ANGLES ±1.0°			
DRAWING NUMBER: 9704419A30011		SCALE: 1/36			
DRAWING NAME: DIFFUSER INSTL, FIXED FB, AGS 1, 2, 3		SHEET: 2 OF 7			

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AGS BASINS  
MANIFOLD  
SECTION 4

- 1 REQUIRED AS SHOWN (BASIN 1)
- 2 REQUIRED MIRROR IMAGE (BASINS 2 & 3)

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9-19-24

NAPANEE, ONTARIO, CANADA  
WWTP  
AGS BASINS  
SECTIONS

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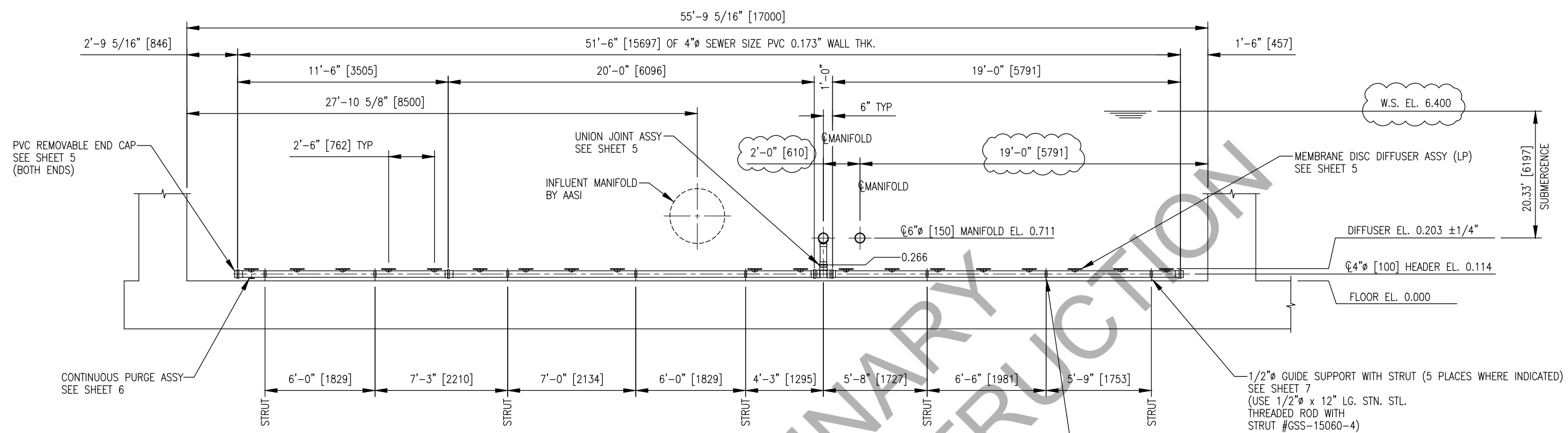
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REV	DATE	REVISION	BY	

DRAWN BY: SP	DATE: 9-19-24	JOB #: 24-3140
CHKD BY: SI	DATE: 9-19-24	
APPRD BY: JCT	DATE: 9-19-24	SHEET S-3

JOB NAME: NAPANEE WPCP UPGRADES		AQUA-AEROBIC SYSTEMS, INC.	
JOB LOCATION: NAPANEE, ONTARIO, CANADA		A Subsidiary Company	
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES		ANSI	
DO NOT SCALE DRAWING		FRACTIONAL DIMENSIONS ±.010	
		ALL TWO PLACE DECIMALS ±.005	
		ALL THREE PLACE DECIMALS ±.001	
		ALL ANGLES ±.1°	
MATERIAL:			
SIMILAR TO:			
TYPE: AQUARIUS			
DRAWN BY: CJC		DATE: 2024-10-08	
WEIGHT:		SHEET: 3 OF 7	
DRAWING NUMBER: 9704419A30011		SCALE: SIZE: 1/36 D	

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REV	ERN / ECO	DATE	BY	REVISION DESCRIPTION
A	R22845	2024-08-20	JFM	PRE-ORDER



AIR HEADER SECTION 5

30 REQUIRED AS SHOWN, 60 REQUIRED MIRROR IMAGE

X'-X" - PLEASE VERIFY DIMENSION OR ELEVATION

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 9-19-24

NAPANEE, ONTARIO, CANADA  
 WWTP  
 AGS BASINS  
 SECTIONS

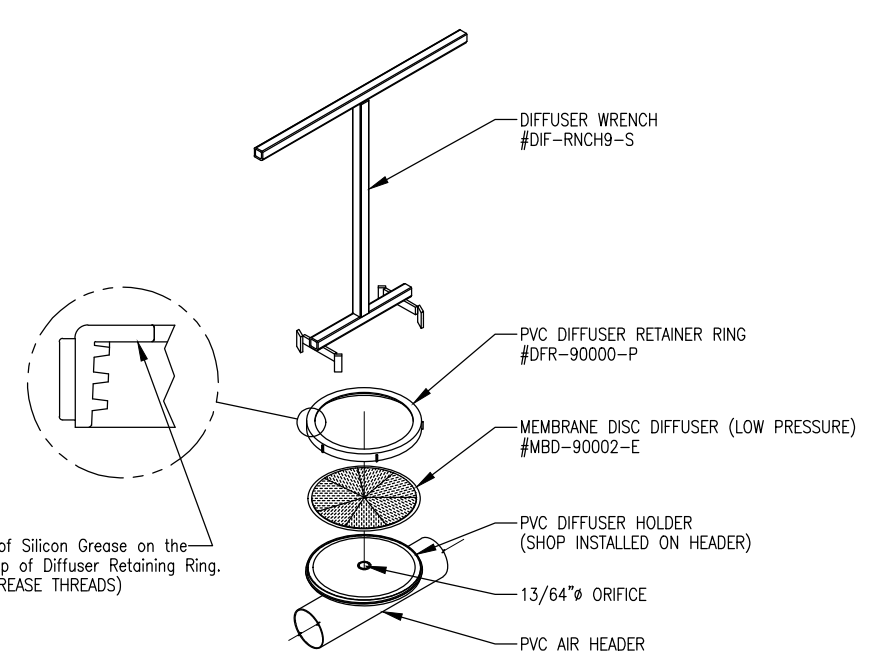
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A				
REV	DATE	REVISION	BY	

DRAWN BY: SP	DATE: 9-19-24	JOB #: 24-3140
CHKD BY: SI	DATE: 9-19-24	
APPRD BY: JCT	DATE: 9-19-24	SHEET S-4

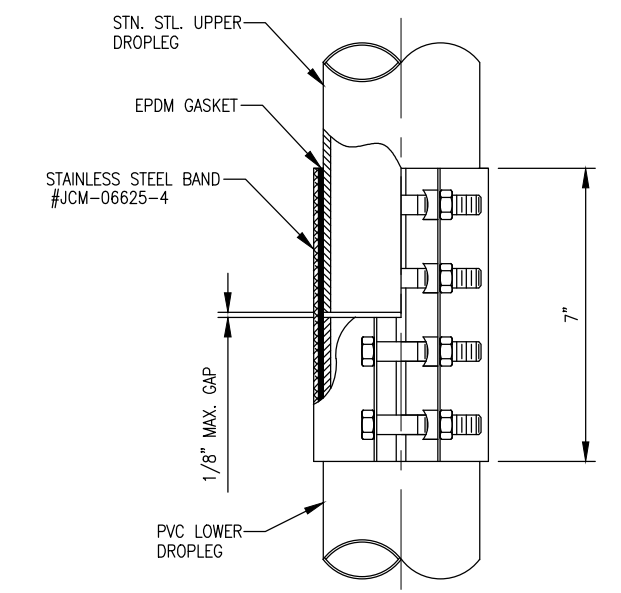
JOB NAME: NAPANEE WPCP UPGRADES				AQUA-AEROBIC SYSTEMS, INC.	
JOB LOCATION: NAPANEE, ONTARIO, CANADA				A Waterstar Company	
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES				ANSI	
DO NOT SCALE DRAWING				FRACTIONAL DIMENSIONS ±0.010 ALL TWO PLACE DECIMALS ALL THREE PLACE DECIMALS ±0.005 ALL ANGLES ±0.1°	
MATERIAL:				TYPE: AQUARIUS	
SIMILAR TO:				DRAWN BY: CJC	
A R22845				DATE: 2024-10-08	
REV ERN / ECO DATE BY REVISION DESCRIPTION				WEIGHT: SHEET: 4 OF 7	
DRAWING NAME: DIFFUSER INSTL, FIXED FB, AGS 1, 2, 3				DRAWING NUMBER: 9704419A30011	
				SCALE: 1/36	
				SIZE: D	

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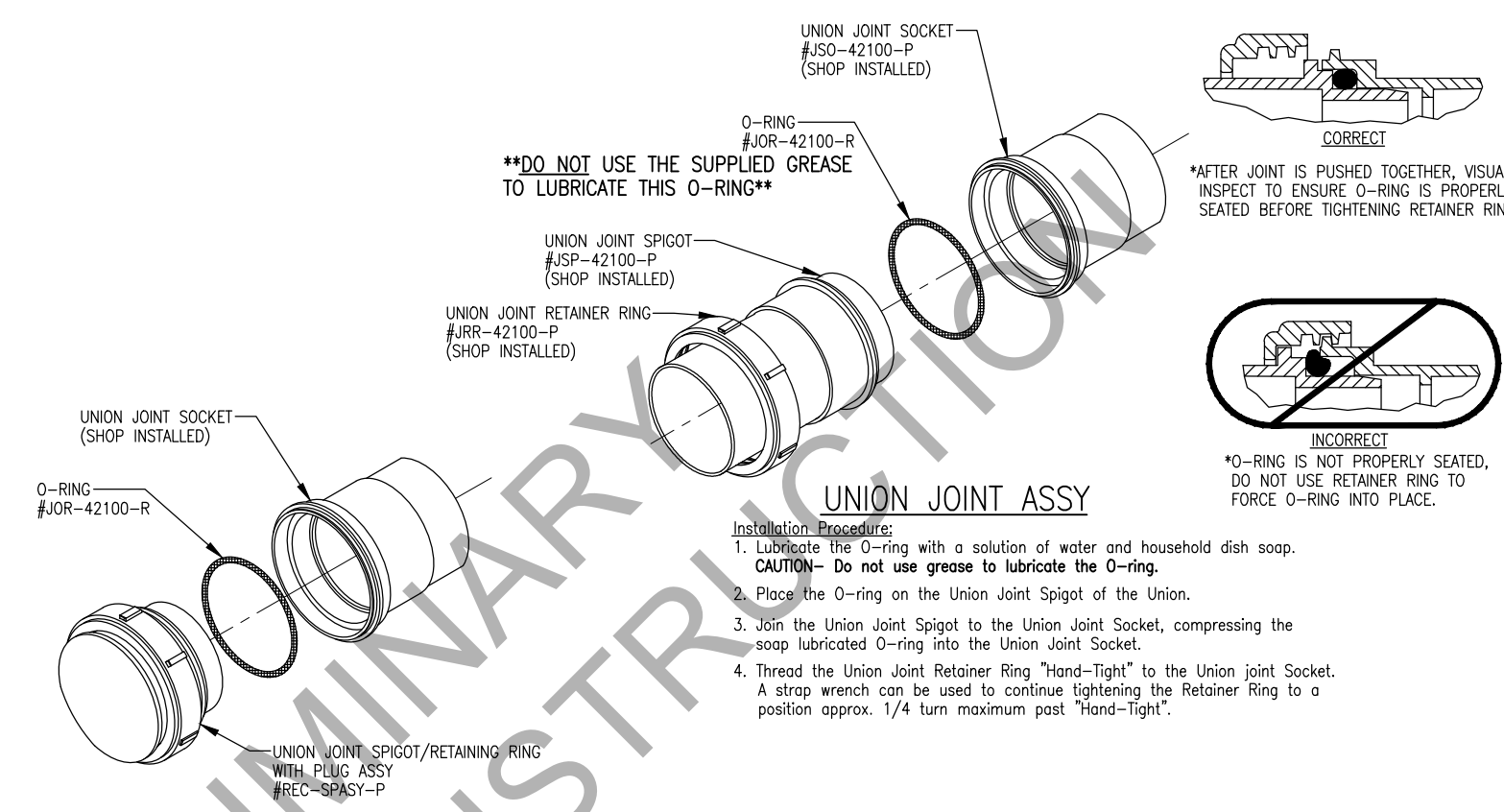
**MEMBRANE DISC DIFFUSER ASSY (LP)**

- Installation Procedure:
- Place the Membrane Disc Diffuser on the Diffuser Holder.
  - Place a thin layer of the provided Silicon Grease on the underside lip of the Diffuser Retainer Ring. **CAUTION-** Do not place grease on the thread of the Diffuser Retainer Ring.
  - Install the Diffuser Retainer Ring on the Diffuser Holder and tighten "Hand-Tight". **CAUTION-** Do not cross thread the Diffuser Retainer Ring.
  - Use the Diffuser Wrench and continue tightening the Diffuser Retainer Ring to a position approx. 1/4 turn maximum past "Hand-Tight".



**CLAMP COUPLING**

Refer to installation instructions included with each clamp

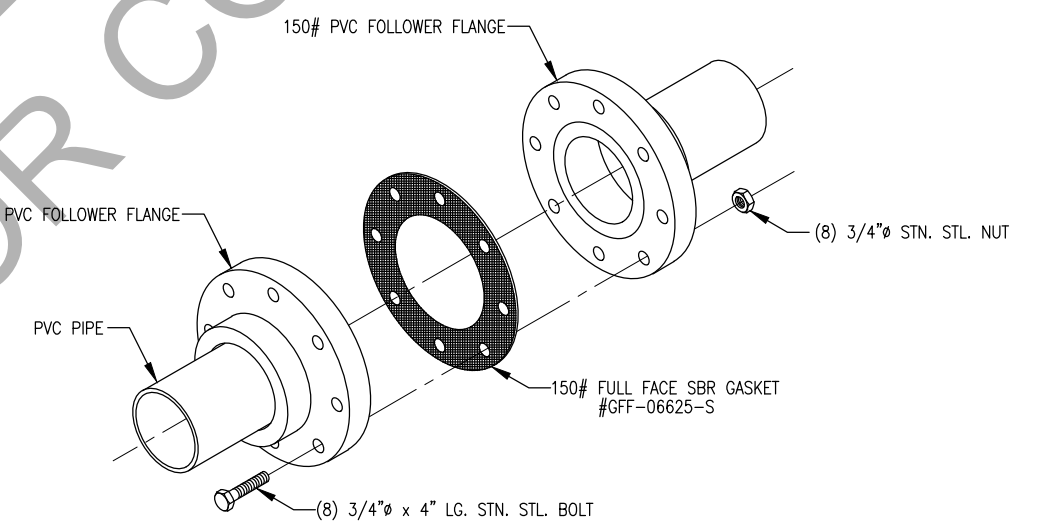


**UNION JOINT ASSY**

- Installation Procedure:
- Lubricate the O-ring with a solution of water and household dish soap. **CAUTION-** Do not use grease to lubricate the O-ring.
  - Place the O-ring on the Union Joint Spigot of the Union.
  - Join the Union Joint Spigot to the Union Joint Socket, compressing the soap lubricated O-ring into the Union Joint Socket.
  - Thread the Union Joint Retainer Ring "Hand-Tight" to the Union joint Socket. A strap wrench can be used to continue tightening the Retainer Ring to a position approx. 1/4 turn maximum past "Hand-Tight".

**PVC REMOVABLE END CAP**

- Installation Procedure:
- See "Union Joint Assy"



**PVC FOLLOWER FLANGE**

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9-19-24

NAPANEE, ONTARIO, CANADA  
WWTP  
AGS BASIN  
DETAILS

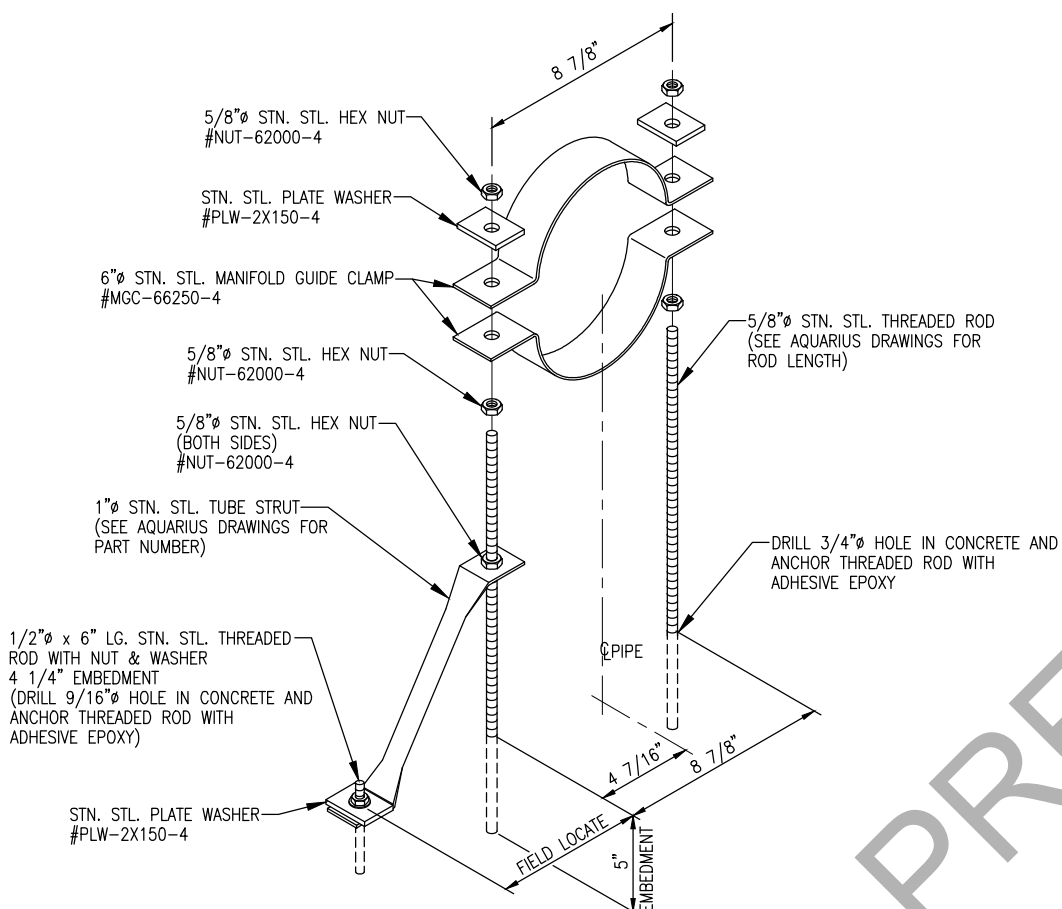
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REV	DATE	REVISION	BY	APPRD BY: JCT	DATE: 9-19-24

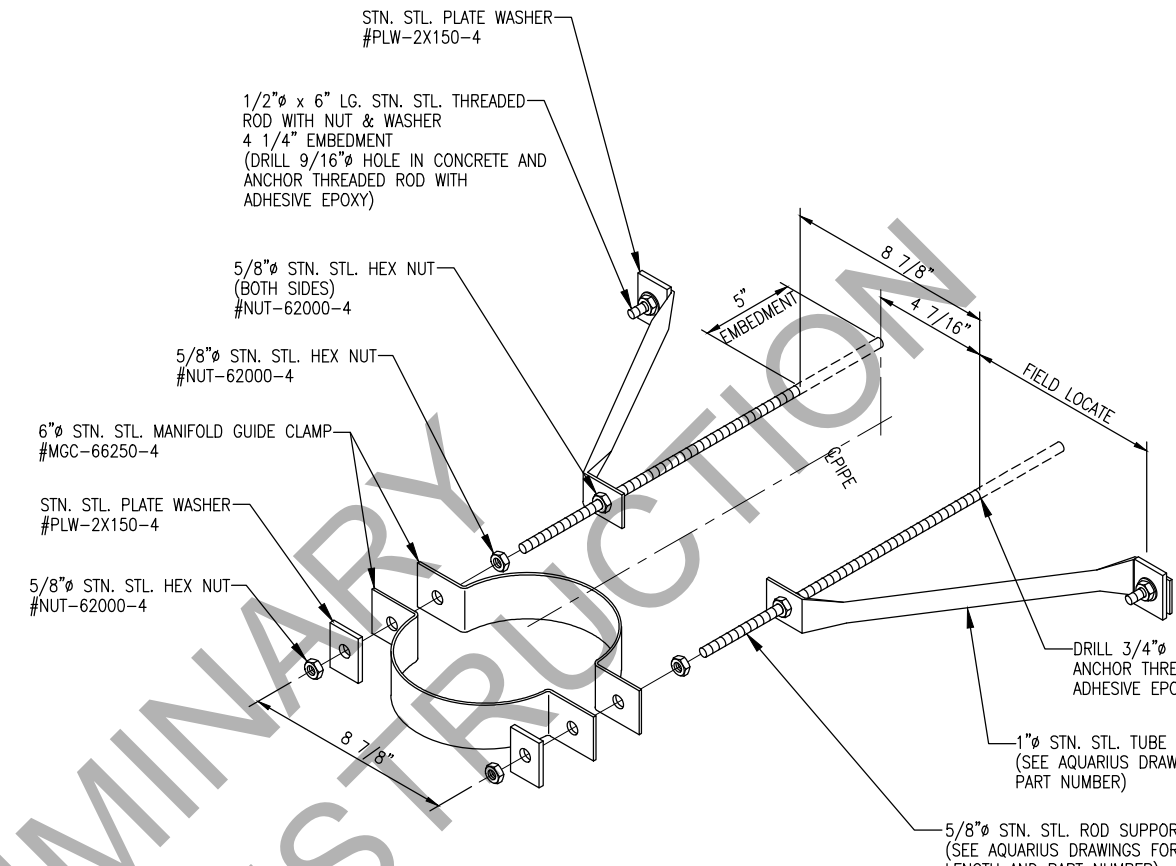
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DO NOT SCALE DRAWING		UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES		FRACTIONAL DIMENSIONS ±.010 ALL TWO PLACE DECIMALS ±.005 ALL THREE PLACE DECIMALS ±.002 ALL ANGLES ±.02°	
MATERIAL:		SIMILAR TO:		TYPE: AQUARIUS	
DRAWN BY: SP		DATE: 9-19-24		JOB #: 24-3140	
CHKD BY: SI		DATE: 9-19-24		SHEET 5-5	
A R22845		2024-08-20		JFM PRE-ORDER	
DRAWN BY: CJC		DATE: 2024-10-08		SCALE: SIZE: NTS D	
DRAWING NAME: DIFFUSER INSTL, FIXED FB, AGS 1, 2, 3		DRAWING NUMBER: 9704419A30011		SHEET: 5 OF 7	

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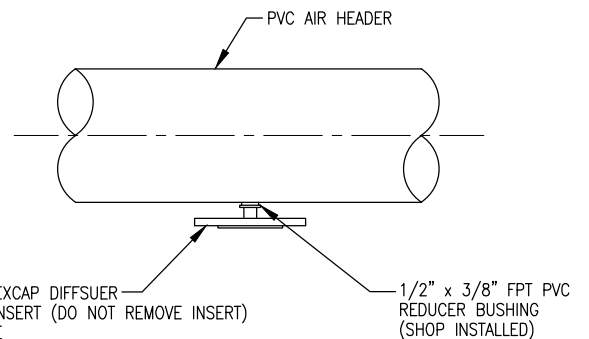
PLEASE CHECK ALL NUTS FOR TIGHTNESS



SIMPLE SUPPORT w/STRUT ASSY



SIMPLE SUPPORT w/STRUT ASSY (SWAY BRACE)



CONTINUOUS PURGE ASSEMBLY

Installation Procedure:  
 1. Apply teflon tape or pipe putty to threads of Flexcap Diffuser, install into bushing at invert of pipe and hand tighten.

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 9-19-24

NAPANEE, ONTARIO, CANADA  
 WWTP  
 AGS BASIN  
 DETAILS

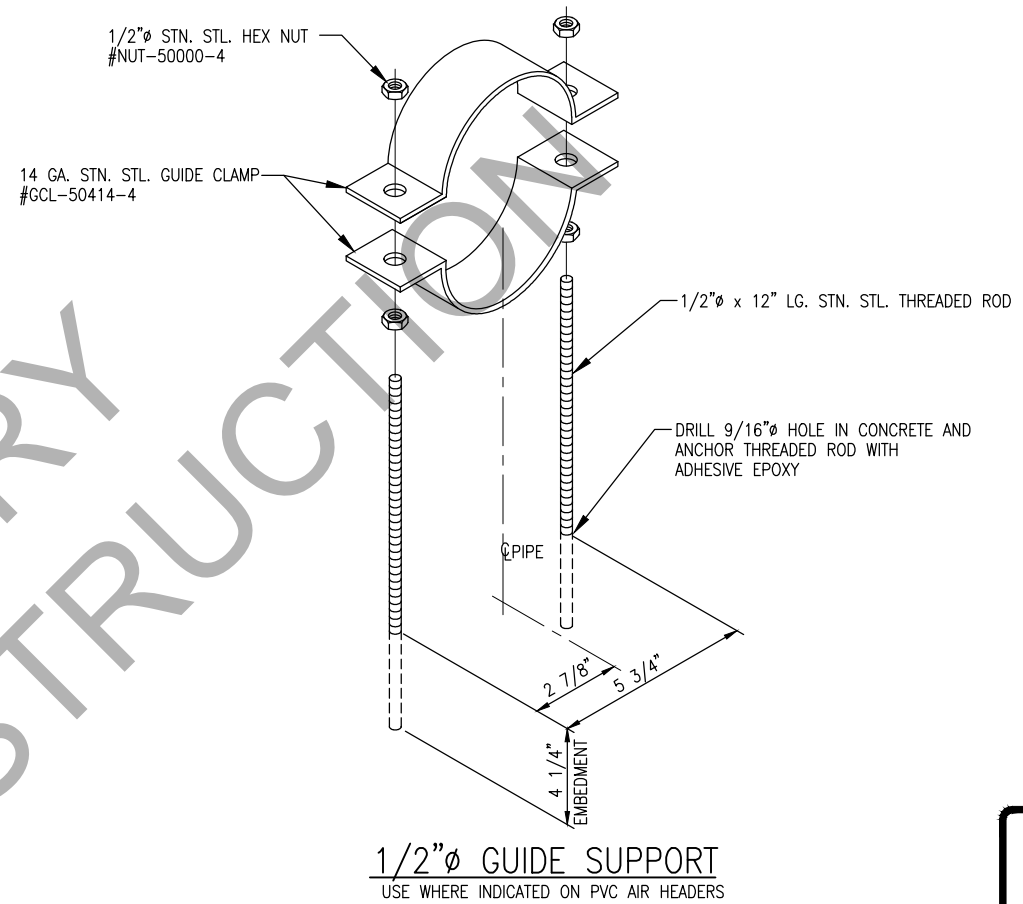
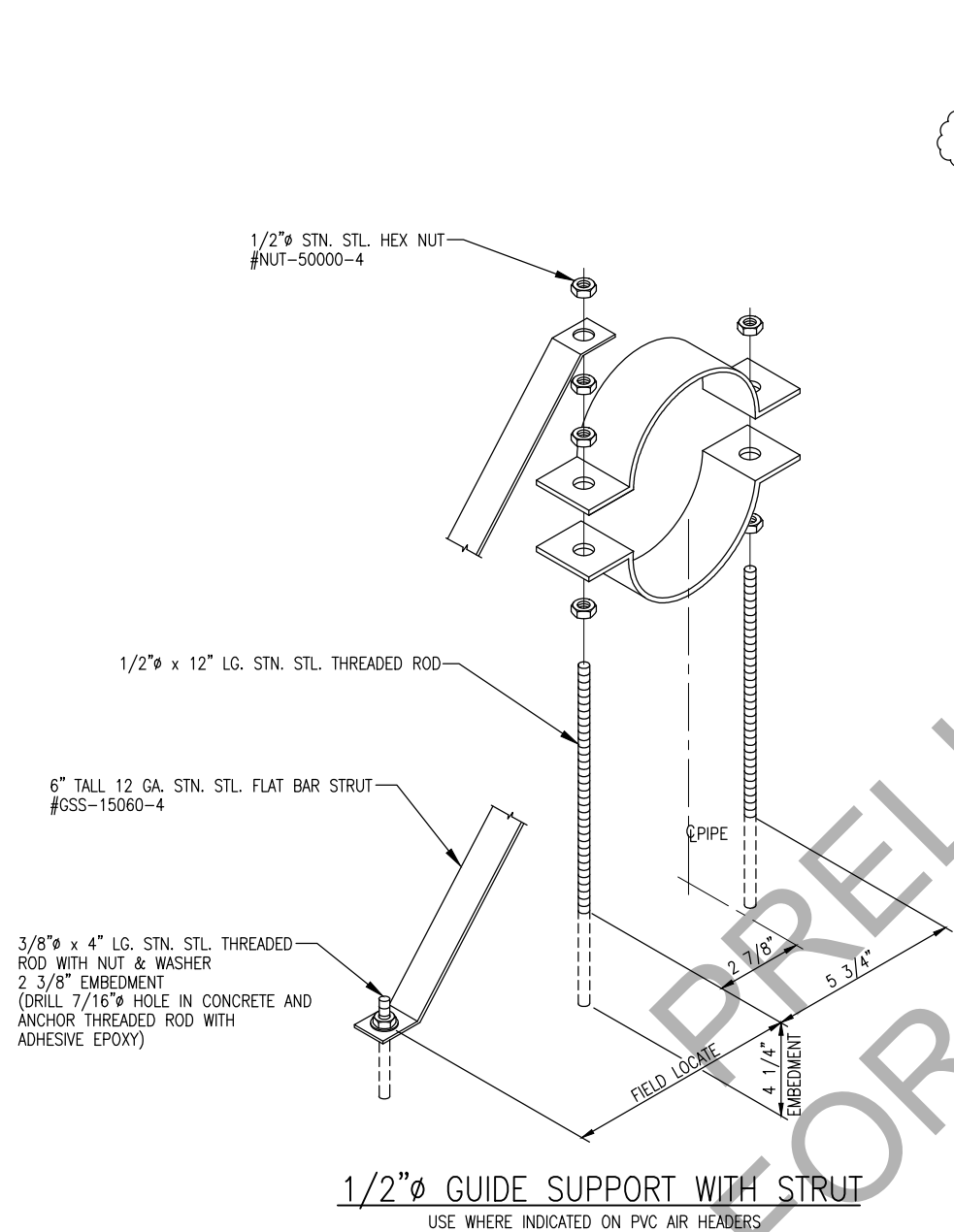
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REV	DATE	REVISION	BY	APPRD BY: JCT	DATE: 9-19-24

JOB NAME: NAPANEE WPCP UPGRADES			AQUA-AEROBIC SYSTEMS, INC.		
JOB LOCATION: NAPANEE, ONTARIO, CANADA			Aquaerobic Company		
DO NOT SCALE DRAWING			UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES		
MATERIAL:			FRACTIONAL DIMENSIONS ±.010		
SIMILAR TO:			ALL TWO PLACE DECIMALS ±.005		
TYPE: AQUARIUS			ALL THREE PLACE DECIMALS ±.002		
DRAWN BY: CJC			DATE: 2024-10-08		
REV: R22845			SHEET: 6 OF 7		
DATE: 2024-08-20			SCALE: NTS		
BY: JFM			SIZE: D		
REVISION DESCRIPTION: PRE-ORDER					
DRAWING NUMBER: 9704419A30011					
DIFFUSER INSTL, FIXED FB, AGS 1, 2, 3					

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PLEASE CHECK ALL NUTS FOR TIGHTNESS



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9-19-24

NAPANEE, ONTARIO, CANADA  
WWTP  
AGS BASIN  
DETAILS

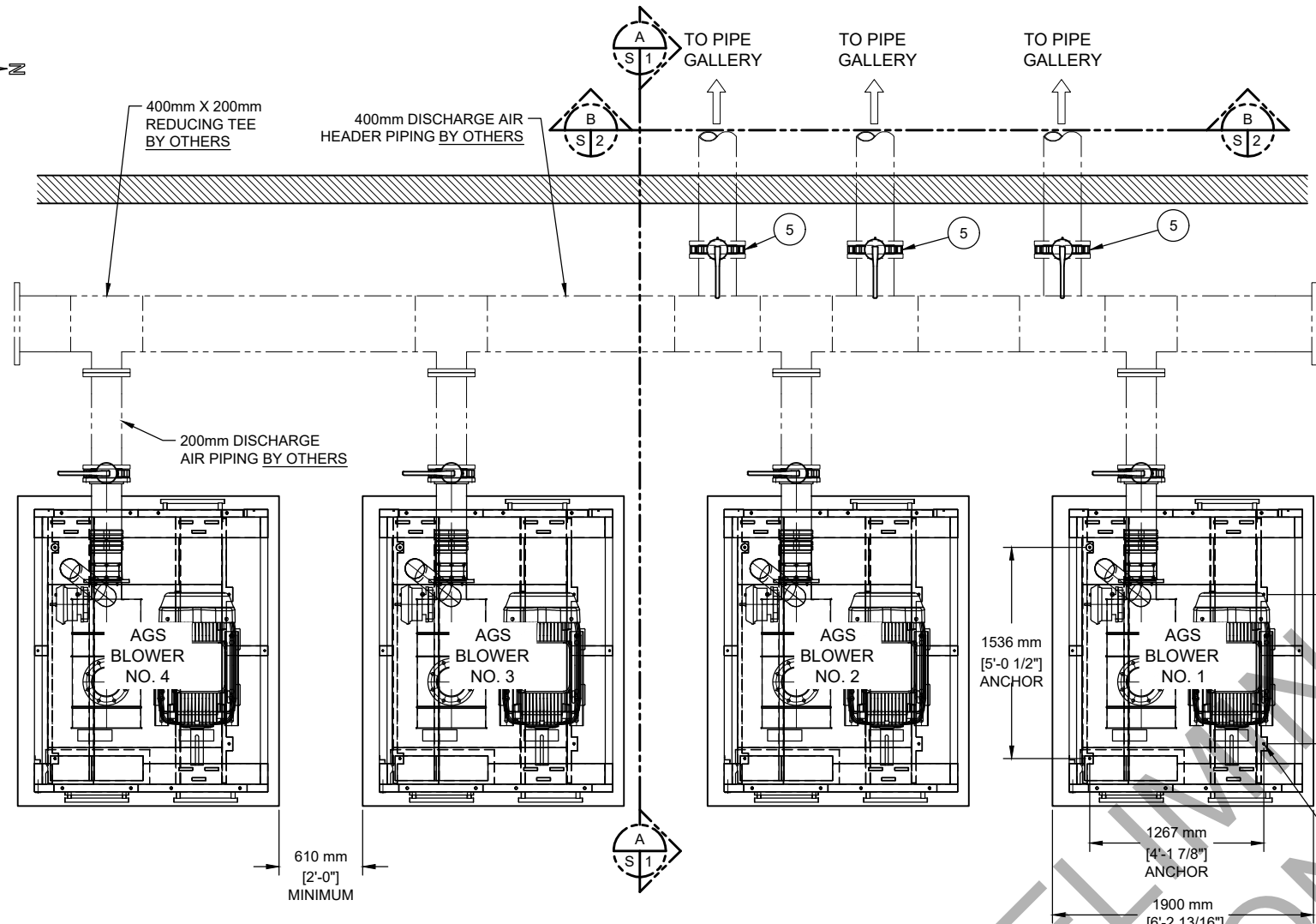
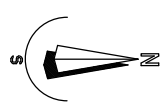
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C					
B					
A					
REV	DATE	REVISION	BY	APPRD BY: JCT	DATE: 9-19-24

DRAWN BY: SP	DATE: 9-19-24	JOB #:	24-3140
CHKD BY: SI	DATE: 9-19-24		
		SHEET	S-7

JOB NAME: NAPANEE WPCP UPGRADES				AQUA-AEROBIC SYSTEMS, INC. <small>A Molecular Company</small>	
JOB LOCATION: NAPANEE, ONTARIO, CANADA				DO NOT SCALE DRAWING	
				UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES	
				FRACTIONAL DIMENSIONS ±.010	
				ALL TWO PLACE DECIMALS ±.005	
				ALL THREE PLACE DECIMALS ±.002	
				ALL ANGLES ±.02°	
				ANSI	
				MATERIAL:	
				SIMILAR TO:	
				TYPE: AQUARIUS	
A R22845		2024-08-20		JFM PRE-ORDER	
DRAWN BY: CJC		DATE: 2024-10-08			
REV		ERN / ECO		DATE	
BY		REVISION DESCRIPTION		WEIGHT:	
DRAWING NAME: DIFFUSER INSTL, FIXED FB, AGS 1, 2, 3				DRAWING NUMBER: 9704419A30011	
				SCALE: NTS	
				SHEET: 7 OF 7	

CONFIDENTIAL

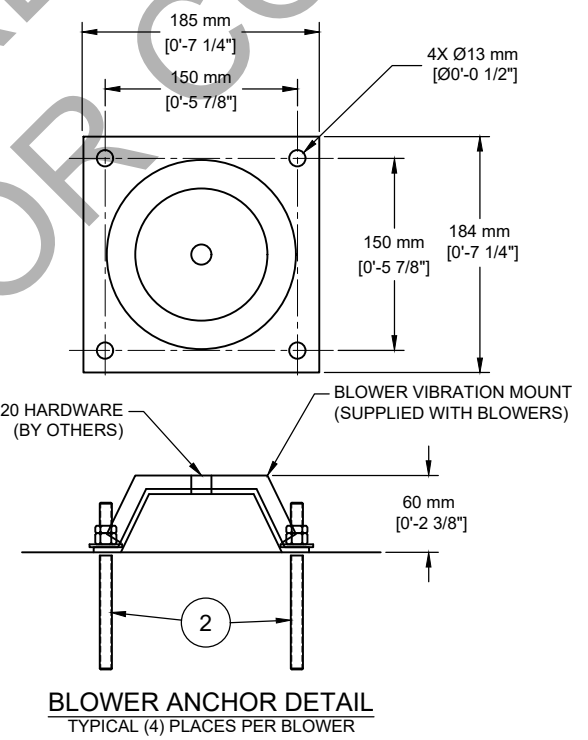
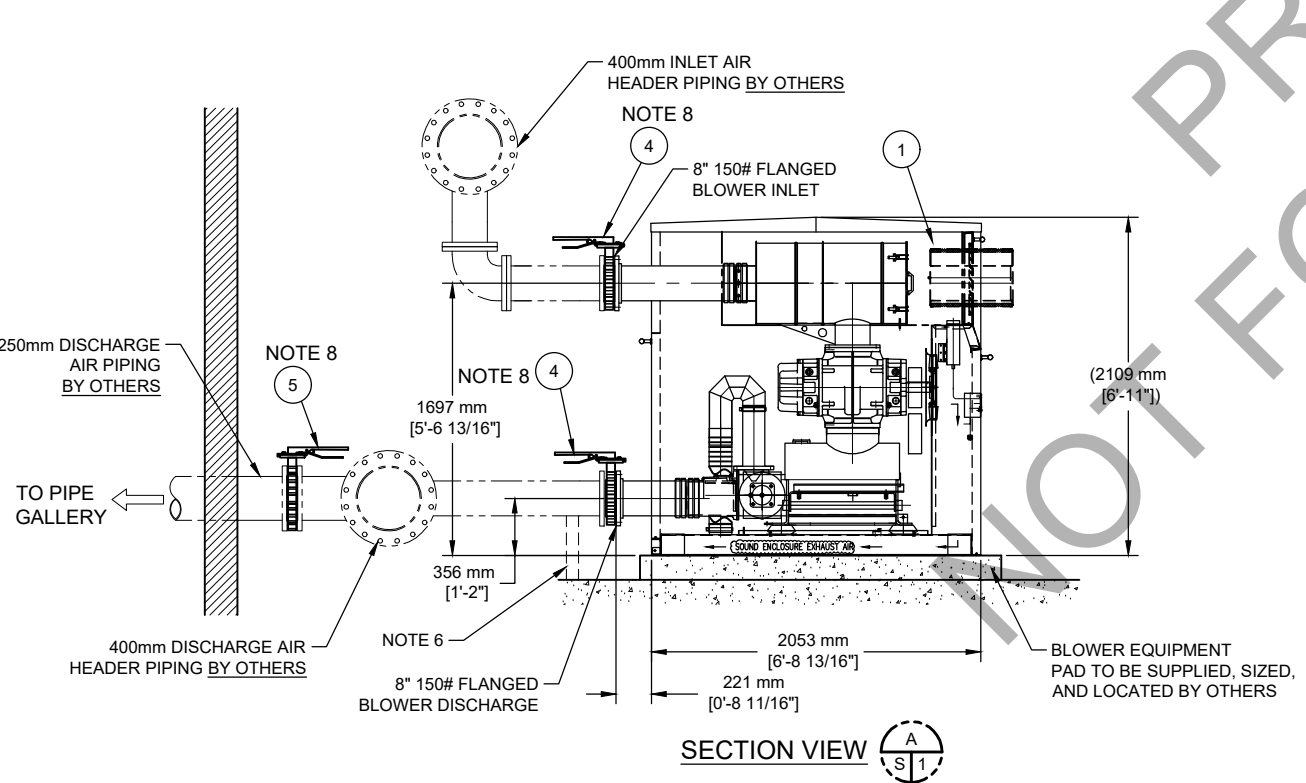


**PERFORMANCE DATA:**

MANUFACTURER:	AERZEN
MODEL:	D 52S
HORSEPOWER:	125 [93kW]
VOLTAGE:	575V/3/60Hz.
VOLUME (DESIGN):	1,434 SCFM
VOLUME (MINIMUM):	376 SCFM
PRESSURE:	10.67 PSIG
BLOWER SPEED (DESIGN):	2,407 RPM
BLOWER SPEED (MINIMUM):	898 RPM
MOTOR SPEED (DESIGN):	1,780 RPM
MOTOR SPEED (MINIMUM):	664 RPM
DISCHARGE TEMPERATURE: (DESIGN SPEED)	226 DEG. F. [108 DEG. C]
DISCHARGE TEMPERATURE: (MINIMUM SPEED)	284 DEG. F. [140 DEG. C]
NOISE LEVEL w/ ENCLOSURE (ESTIMATED):	80 dBA
BLOWER PACKAGE WEIGHT:	3115 LBS. [1413 kg]
BLOWER MOTOR WEIGHT:	1651 LBS. [749 kg]
TOTAL:	4766 LBS. [2162 kg]

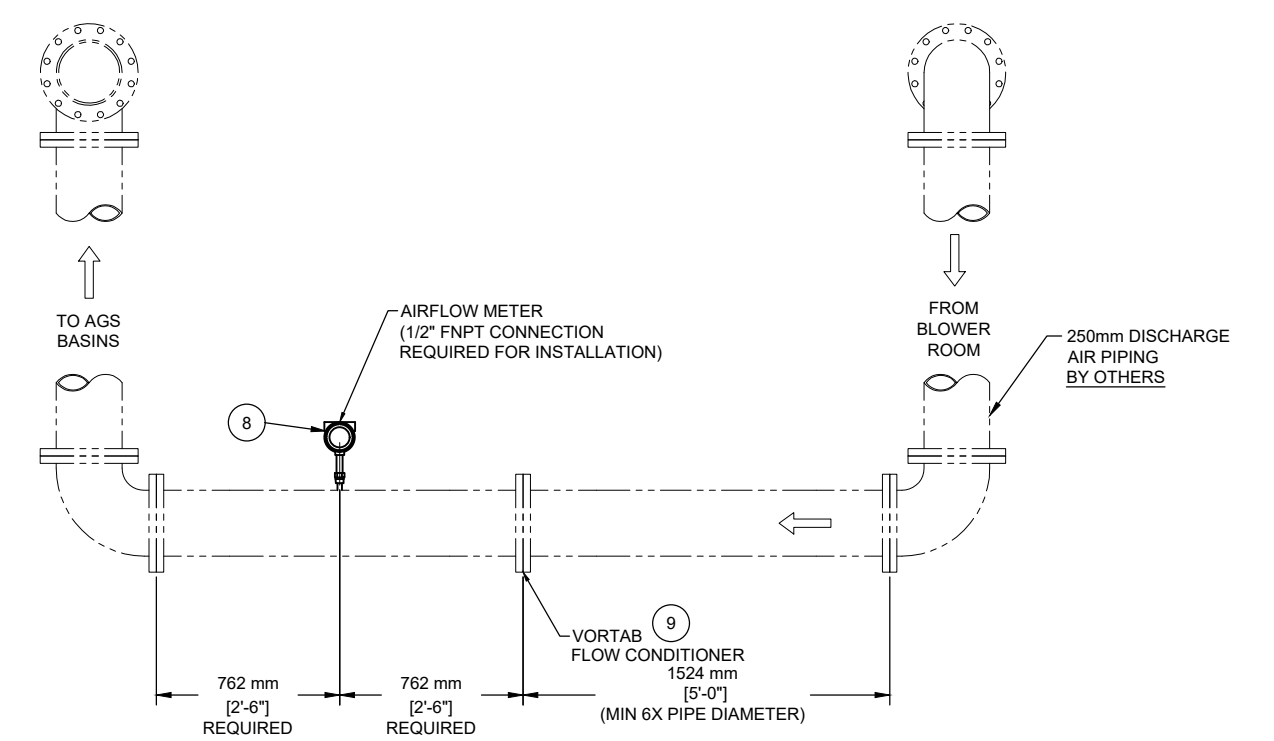
**INSTALLATION NOTES:**

- PLEASE REVIEW ALL INSTALLATION DRAWINGS AND ASSEMBLY INSTRUCTIONS IN THE OPERATION AND MAINTENANCE MANUAL PRIOR TO INSTALLING THE EQUIPMENT.
- IT IS RECOMMENDED THAT ALL THREADED FASTENERS BE STAINLESS STEEL AND SECURED WITH A FULL NUT AND A JAM NUT.
- ANTI-SEIZE LUBRICANT IS REQUIRED ON ALL STAINLESS STEEL FASTENERS UNLESS OTHERWISE SPECIFIED.
- UNLESS OTHERWISE NOTED, ELECTRIC VALVE ACTUATORS SHALL BE SUPPLIED WITH A 12 FT. [3.6m] LONG CORD SET. ELECTRICAL DISCONNECT / JUNCTION BOXES (PROVIDED BY OTHERS) MUST BE LOCATED WITHIN REACH OF THE PROVIDED CORD SET.
- ALL AIR MANIFOLD PIPING AND BRANCH AIR PIPING IS SHOWN FOR REFERENCE ONLY AND IS TO BE SUPPLIED AND INSTALLED BY OTHERS.
- AIR MANIFOLD PIPING MUST BE PROPERLY SUPPORTED TO PREVENT DAMAGE TO THE BLOWER PACKAGE ASSEMBLY. THE BLOWER DISCHARGE PIPING MAY NOT BE USED TO SUPPORT THE AIR MANIFOLD PIPING.
- REFER TO ANCHOR KIT DRAWING FOR INSTALLATION INSTRUCTIONS.
- ALL VALVES ARE SHIPPED LOOSE AND ARE TO BE LOCATED AND INSTALLED BY OTHERS.
- PRESSURE TRANSMITTER IS SUPPLIED LOOSE FOR INSTALLATION BY OTHERS. PRESSURE TRANSMITTER IS SUPPLIED WITH A 1/2" FEMALE NPT CONNECTION. INSTALLING CONTRACTOR/ELECTRICIAN IS RESPONSIBLE FOR SUPPLY AND INSTALLATION OF ELECTRIC CABLE AND FITTINGS.

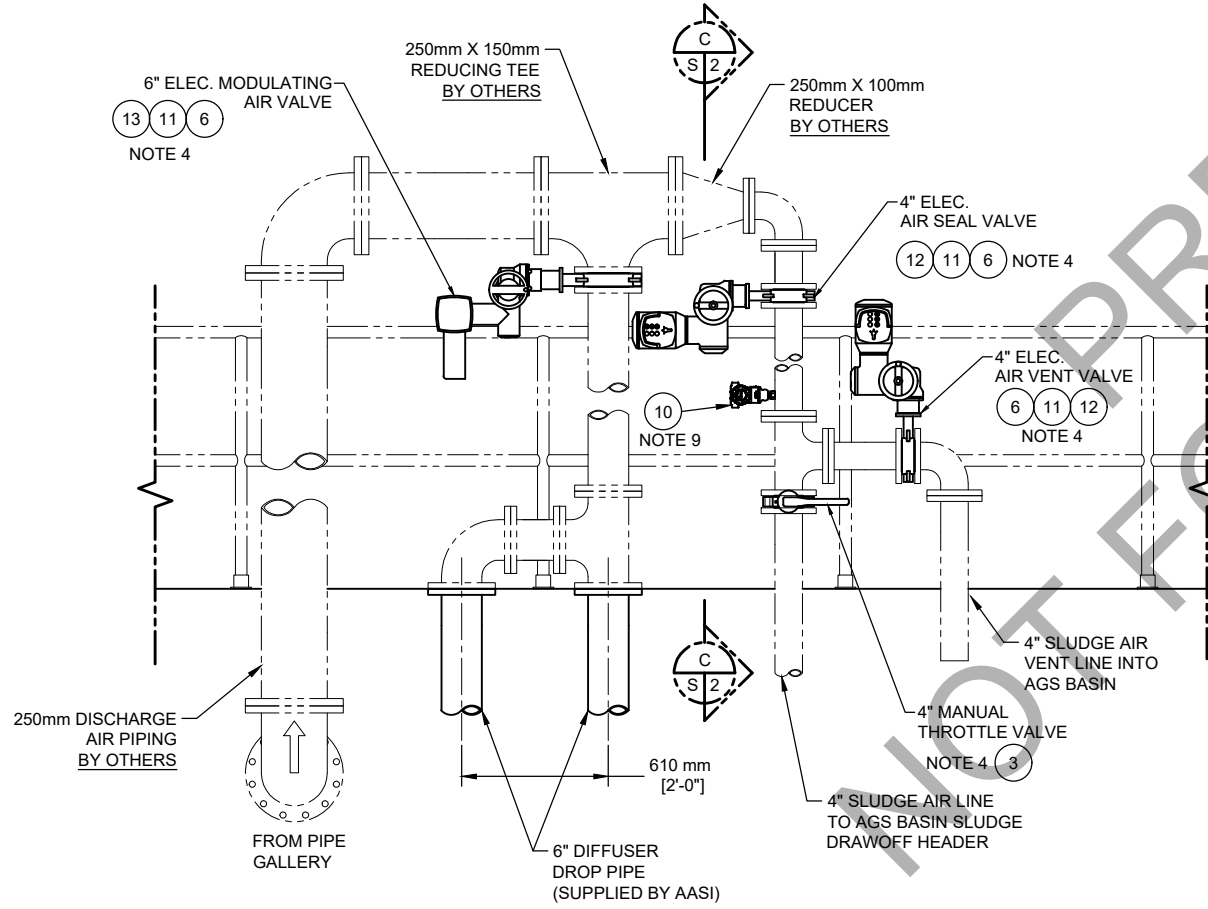


JOB NAME: NAPANEE WPCP UPGRADES				AQUA-AEROBIC SYSTEMS, INC.			
JOB LOCATION: NAPANEE, ONTARIO, CANADA				A WaterCare Company			
DO NOT SCALE DRAWING				UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES			
MATERIAL:				FRACTIONAL DIMENSIONS ±.010			
SIMILAR TO:				ALL TWO PLACE DECIMALS ±.005			
TYPE:				ALL THREE PLACE DECIMALS ±.002			
DRAWN BY: CJC				DATE: 2024-10-04			
REVISION DESCRIPTION				SHEET: 1 OF 2			
DRAWING NUMBER: 9704419A30012				SCALE: 1/24			
DRAWING NAME: BLOWER AND AIR VALVE INSTL				SIZE: D			

**CONFIDENTIAL**



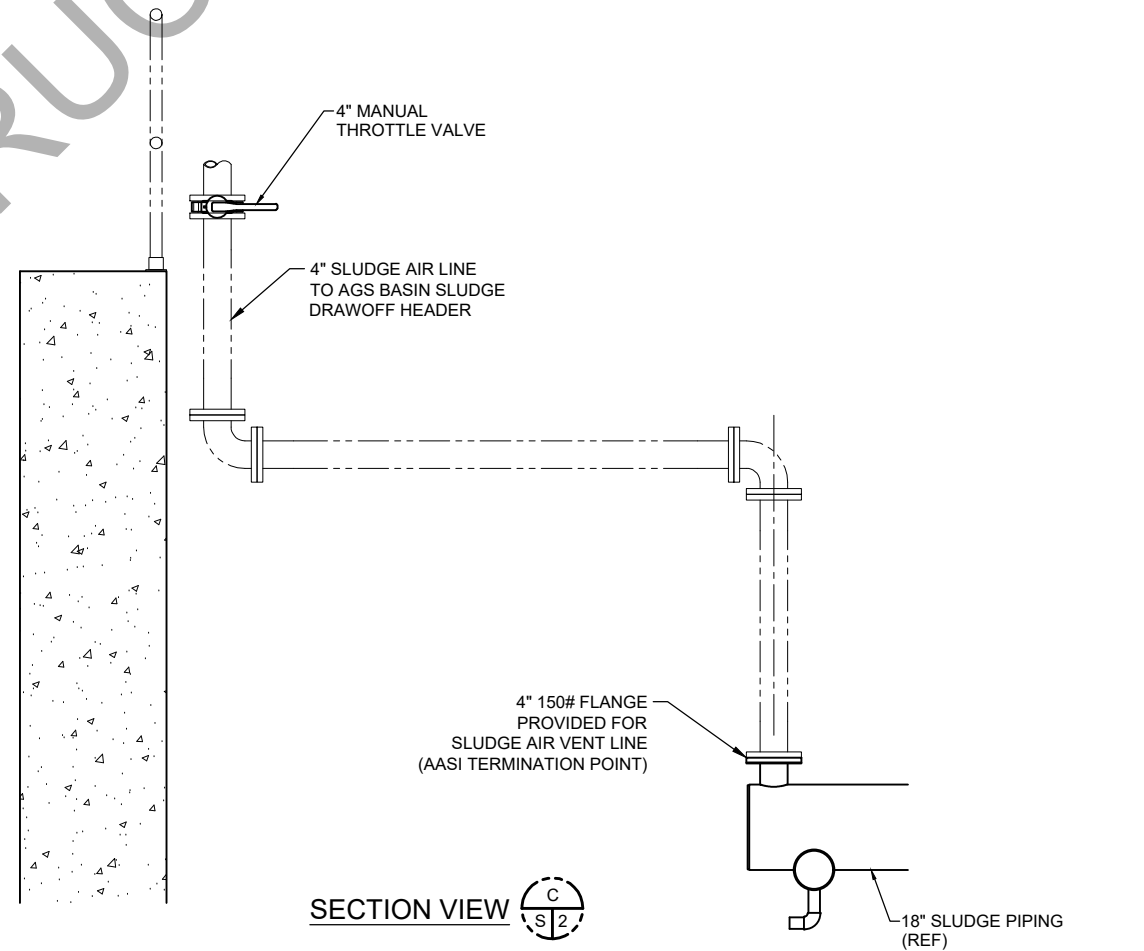
**SECTION VIEW**  
TYPICAL ORIENTATION FOR ALL AGS AIR PIPING



**AGS AIR VENT PIPING**  
TYPICAL ORIENTATION FOR ALL AGS AIR PIPING

**INSTALLATION NOTES:**

1. PLEASE REVIEW ALL INSTALLATION DRAWINGS AND ASSEMBLY INSTRUCTIONS IN THE OPERATION AND MAINTENANCE MANUAL PRIOR TO INSTALLING THE EQUIPMENT.
2. IT IS RECOMMENDED THAT ALL THREADED FASTENERS BE STAINLESS STEEL AND SECURED WITH A FULL NUT AND A JAM NUT.
3. ANTI-SEIZE LUBRICANT IS REQUIRED ON ALL STAINLESS STEEL FASTENERS UNLESS OTHERWISE SPECIFIED.
4. UNLESS OTHERWISE NOTED, ELECTRIC VALVE ACTUATORS SHALL BE SUPPLIED WITH A 12 FT. [3.6m] LONG CORD SET. ELECTRICAL DISCONNECT / JUNCTION BOXES (PROVIDED BY OTHERS) MUST BE LOCATED WITHIN REACH OF THE PROVIDED CORD SET.
5. ALL AIR MANIFOLD PIPING AND BRANCH AIR PIPING IS SHOWN FOR REFERENCE ONLY AND IS TO BE SUPPLIED AND INSTALLED BY OTHERS.
6. AIR MANIFOLD PIPING MUST BE PROPERLY SUPPORTED TO PREVENT DAMAGE TO THE BLOWER PACKAGE ASSEMBLY. THE BLOWER DISCHARGE PIPING MAY NOT BE USED TO SUPPORT THE AIR MANIFOLD PIPING.
7. REFER TO ANCHOR KIT DRAWING FOR INSTALLATION INSTRUCTIONS.
8. ALL VALVES ARE SHIPPED LOOSE AND ARE TO BE LOCATED AND INSTALLED BY OTHERS.
9. PRESSURE TRANSMITTER IS SUPPLIED LOOSE FOR INSTALLATION BY OTHERS. PRESSURE TRANSMITTER IS SUPPLIED WITH A 1/2" FEMALE NPT CONNECTION. INSTALLING CONTRACTOR/ELECTRICIAN IS RESPONSIBLE FOR SUPPLY AND INSTALLATION OF ELECTRIC CABLE AND FITTINGS.

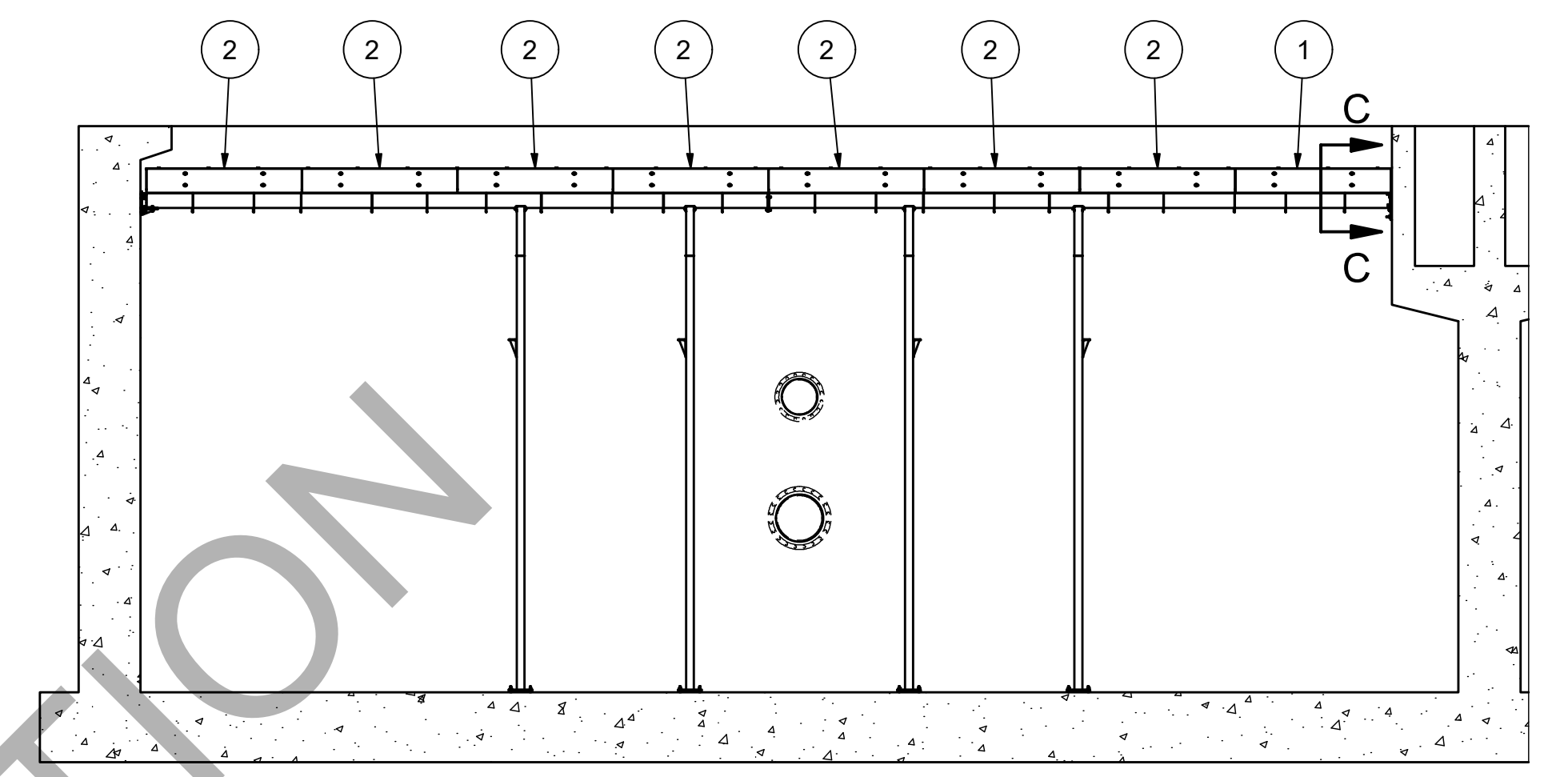
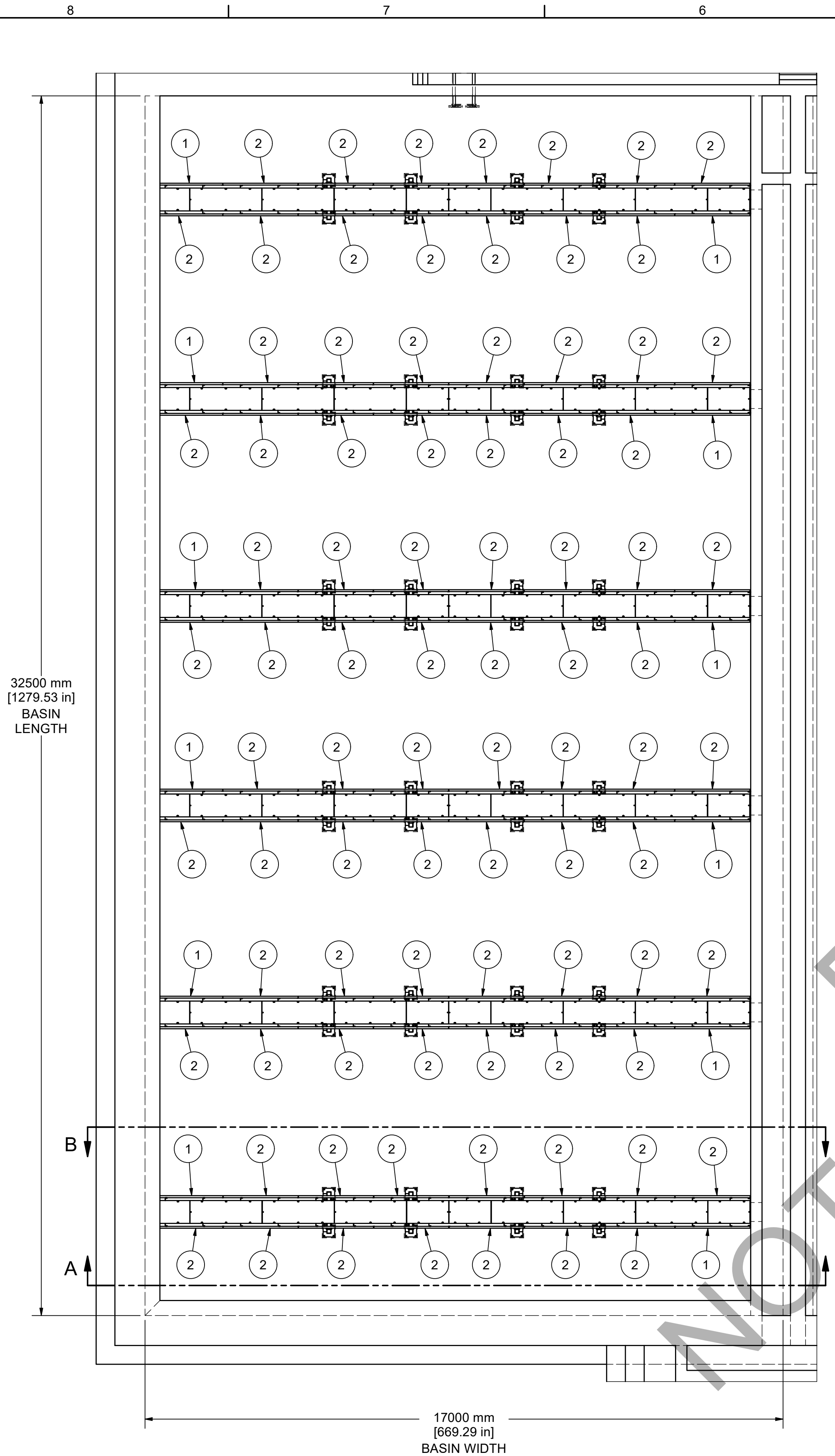


**SECTION VIEW**  
TYPICAL ORIENTATION FOR ALL AGS AIR PIPING

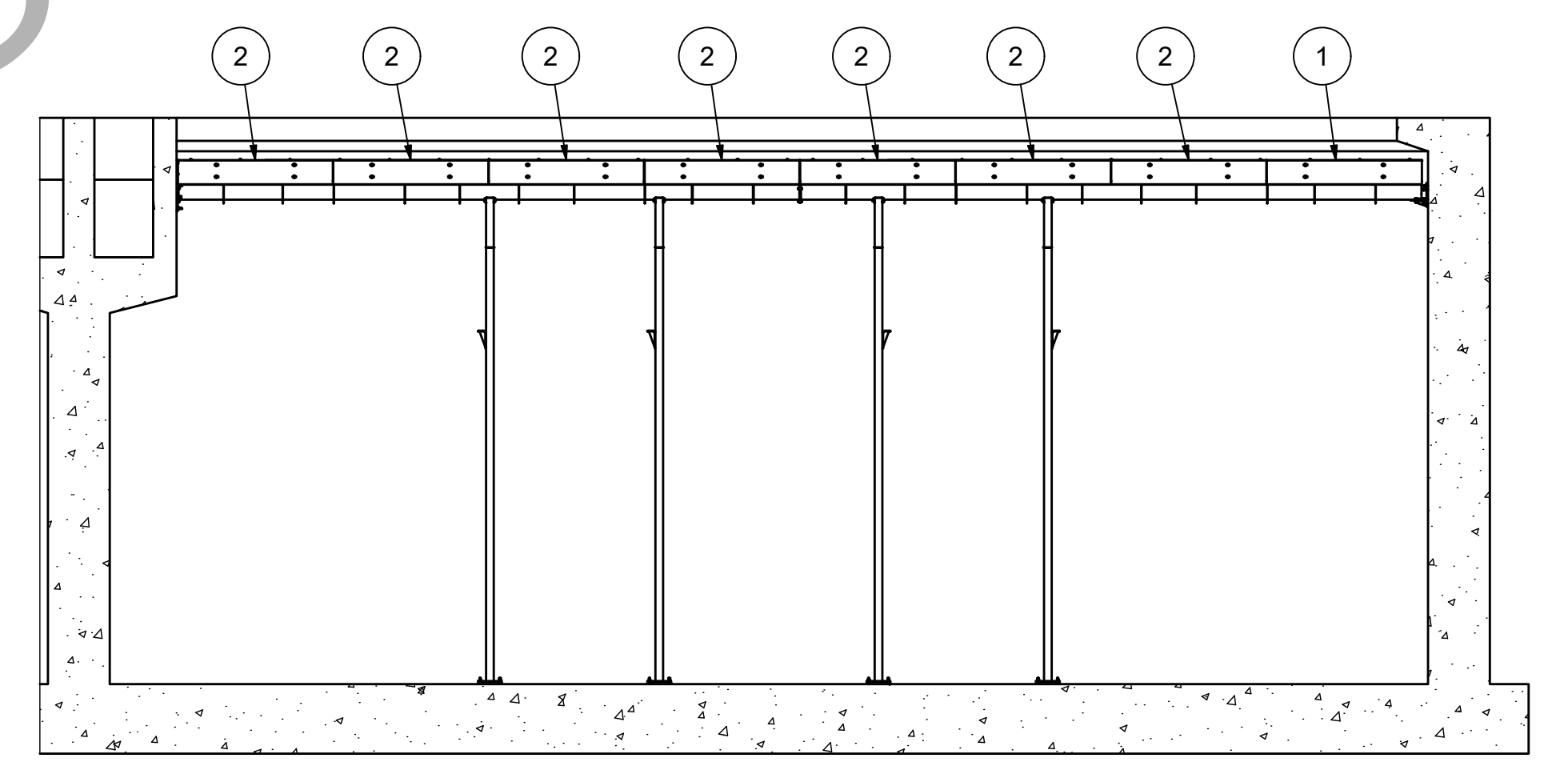
JOB NAME: NAPANEE WPCP UPGRADES				AQUA-AEROBIC SYSTEMS, INC.	
JOB LOCATION: NAPANEE, ONTARIO, CANADA				A WaterCare Company	
				UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES	
DO NOT SCALE DRAWING				FRACTIONAL DIMENSIONS ±0.118	
				ALL TWO PLACE DECIMALS ±0.010	
				ALL THREE PLACE DECIMALS ±0.005	
				ALL ANGLES ±0.12°	
MATERIAL:				ANSI	
SIMILAR TO:					
TYPE:					
DRAWN BY: CJC		DATE: 2024-10-04			
REV: A		2024-10-07		CJC SUBMITTAL	
DRAWING NAME: BLOWER AND AIR VALVE INSTL				DRAWING NUMBER: 9704419A30012	
				SCALE: 1/16" = 1'-0"	
				SHEET: 2 OF 2	

**CONFIDENTIAL**

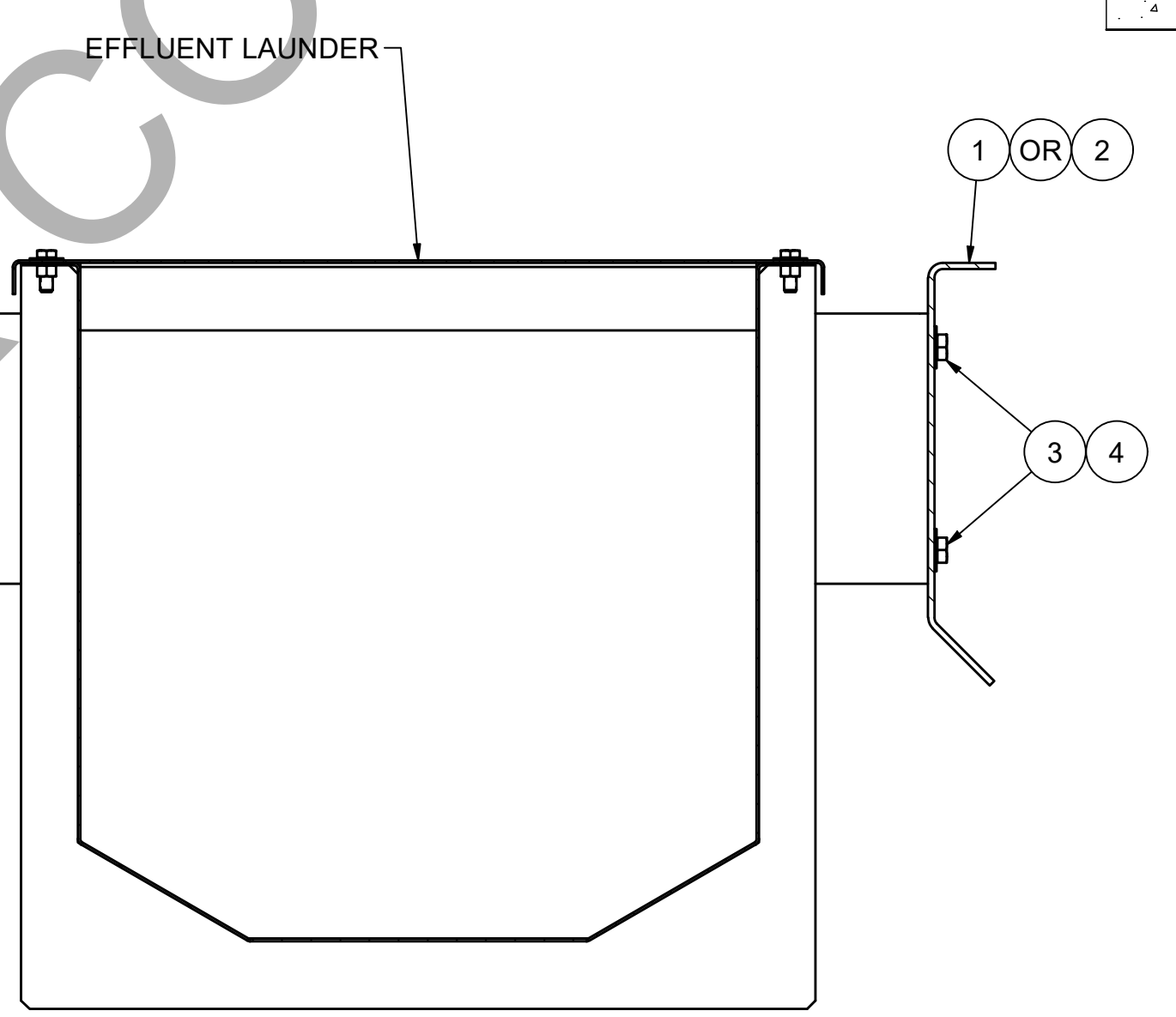




SECTION A-A  
TYP (6)



SECTION B-B  
TYP (6)



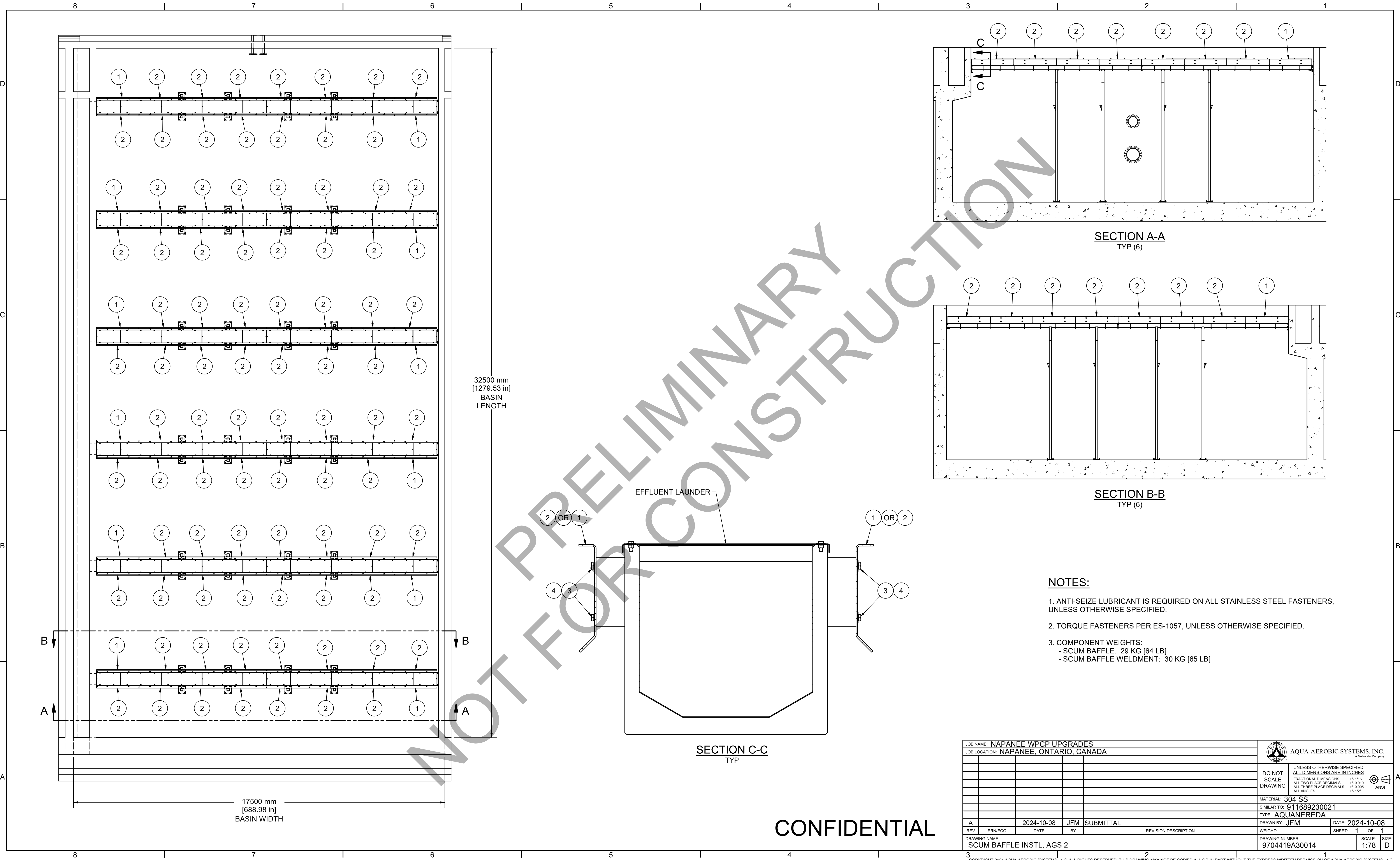
SECTION C-C  
TYP

**NOTES:**

- ANTI-SEIZE LUBRICANT IS REQUIRED ON ALL STAINLESS STEEL FASTENERS, UNLESS OTHERWISE SPECIFIED.
- TORQUE FASTENERS PER ES-1057, UNLESS OTHERWISE SPECIFIED.
- COMPONENT WEIGHTS:  
 - SCUM BAFFLE: 29 KG [64 LB]  
 - SCUM BAFFLE WELDMENT: 30 KG [65 LB]

**CONFIDENTIAL**

JOB NAME: NAPANEE WPCP UPGRADES		AQUA-AEROBIC SYSTEMS, INC. A Mettler Company	
JOB LOCATION: NAPANEE, ONTARIO, CANADA		DO NOT SCALE DRAWING	
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES		ANSI	
MATERIAL: 304 SS		DRAWN BY: JFM	
SIMILAR TO: 911689230021		DATE: 2024-10-08	
TYPE: AQUANEREDA		WEIGHT: 1 OF 1	
REV	ERNECO	DATE	BY
A		2024-10-08	JFM
DRAWING NAME: SCUM BAFFLE INSTL, AGS 1		DRAWING NUMBER: 9704419A30013	
SCALE: 1:78		SIZE: D	



32500 mm  
[1279.53 in]  
BASIN  
LENGTH

17500 mm  
[688.98 in]  
BASIN  
WIDTH

EFFLUENT LAUNDER

SECTION C-C  
TYP

SECTION A-A  
TYP (6)

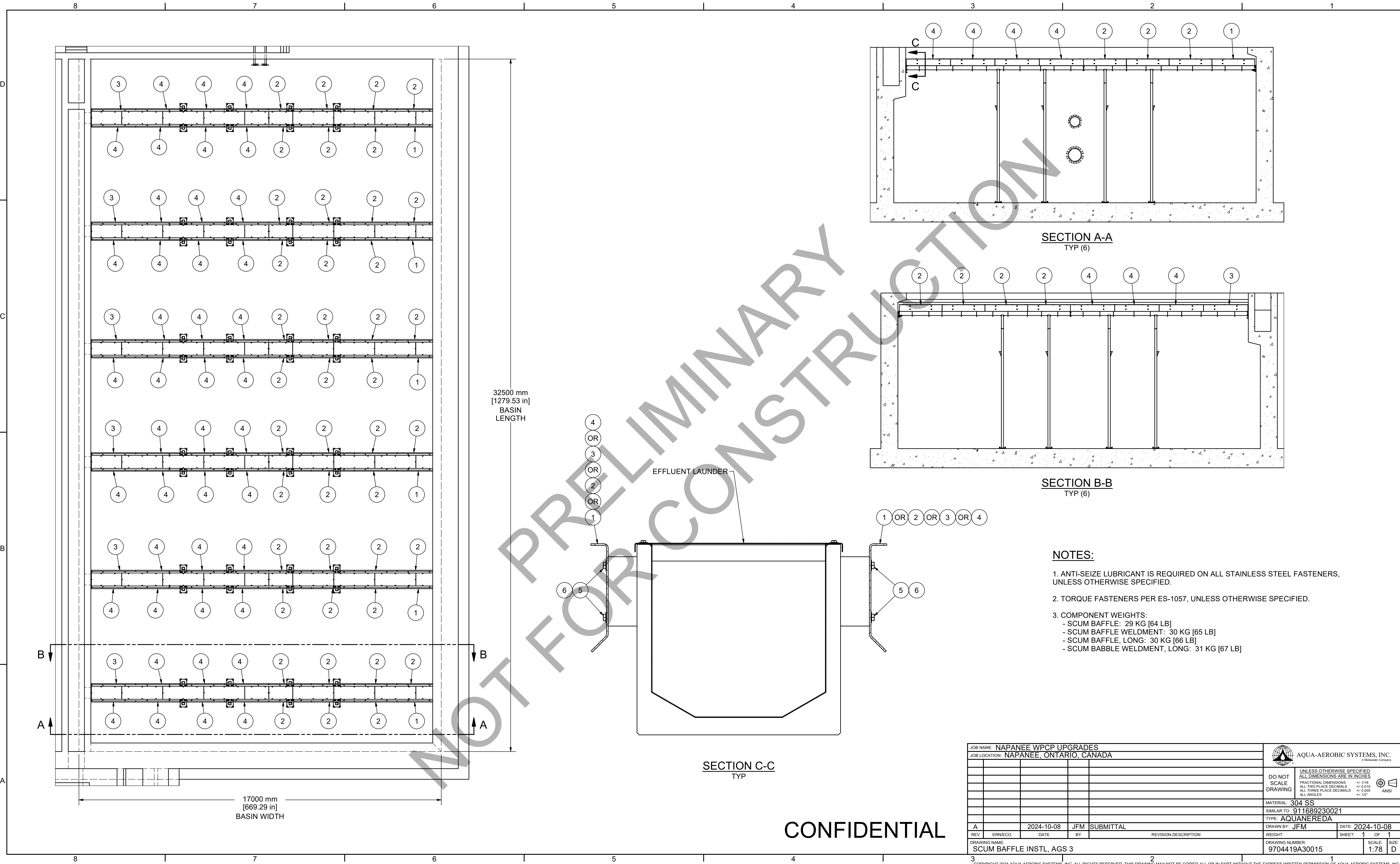
SECTION B-B  
TYP (6)

**NOTES:**

1. ANTI-SEIZE LUBRICANT IS REQUIRED ON ALL STAINLESS STEEL FASTENERS, UNLESS OTHERWISE SPECIFIED.
2. TORQUE FASTENERS PER ES-1057, UNLESS OTHERWISE SPECIFIED.
3. COMPONENT WEIGHTS:  
 - SCUM BAFFLE: 29 KG [64 LB]  
 - SCUM BAFFLE WELDMENT: 30 KG [65 LB]

**CONFIDENTIAL**

JOB NAME: NAPANEE WPCP UPGRADES		AQUA-AEROBIC SYSTEMS, INC. <small>A Mettler Company</small>	
JOB LOCATION: NAPANEE, ONTARIO, CANADA		UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES	
		DO NOT SCALE DRAWING	
		FRACTIONAL DIMENSIONS: ±1/16 ALL TWO PLACE DECIMALS: ±0.010 ALL THREE PLACE DECIMALS: ±0.005 ALL ANGLES: ±1/2°	
		ANSI	
		MATERIAL: 304 SS	
		SIMILAR TO: 911689230021	
		TYPE: AQUANEREDA	
A	2024-10-08	JFM	SUBMITTAL
REV	ERNECO	DATE	BY
DRAWING NAME: SCUM BAFFLE INSTL, AGS 2		DRAWN BY: JFM	
		DATE: 2024-10-08	
		WEIGHT:	
		DRAWING NUMBER: 9704419A30014	
		SHEET: 1 OF 1	
		SCALE: 1:78	
		SIZE: D	



NOT FOR PRELIMINARY CONSTRUCTION

**SECTION A-A**  
TYP (6)

**SECTION B-B**  
TYP (6)

**SECTION C-C**  
TYP

**NOTES:**

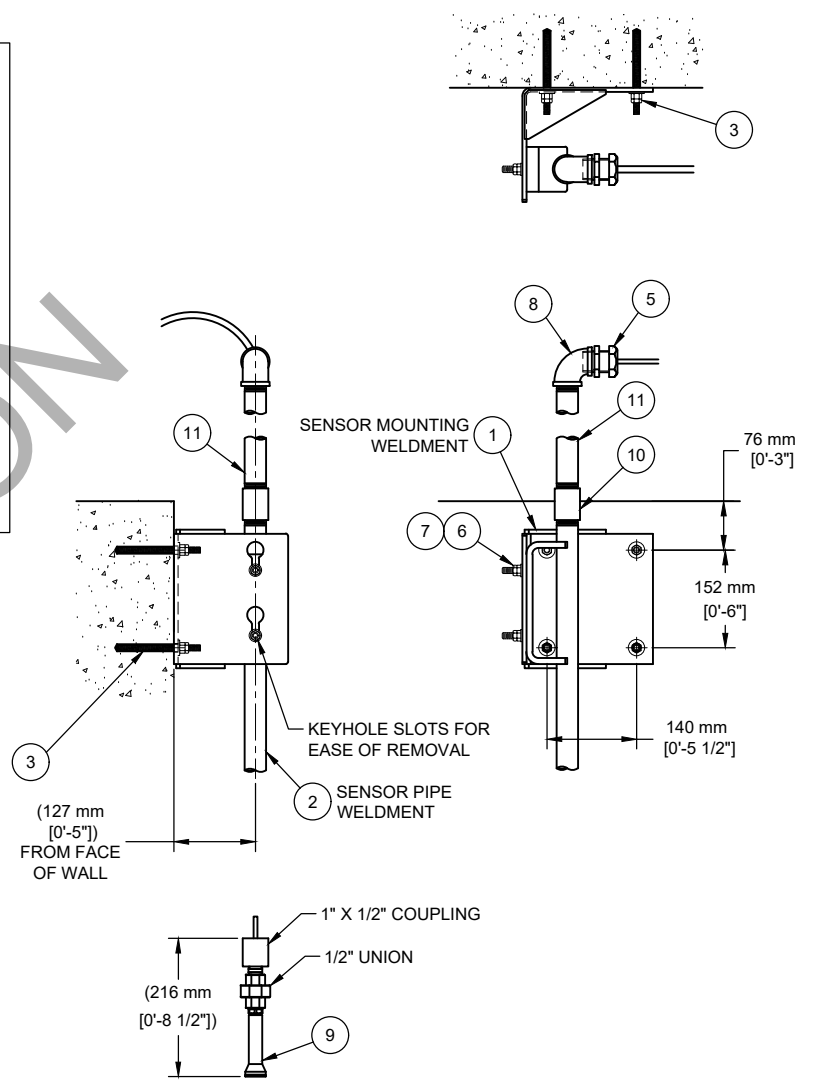
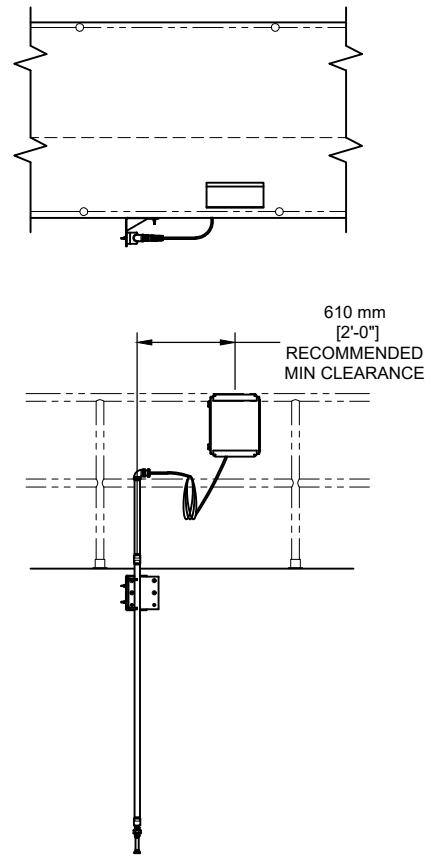
1. ANTI-SEIZE LUBRICANT IS REQUIRED ON ALL STAINLESS STEEL FASTENERS, UNLESS OTHERWISE SPECIFIED.
2. TORQUE FASTENERS PER ES-1057, UNLESS OTHERWISE SPECIFIED.
3. COMPONENT WEIGHTS:
  - SCUM BAFFLE: 29 KG [64 LB]
  - SCUM BAFFLE WELDMENT: 30 KG [65 LB]
  - SCUM BAFFLE, LONG: 30 KG [66 LB]
  - SCUM BAFFLE WELDMENT, LONG: 31 KG [67 LB]

JOB NAME: NAPANEE WPCP UPGRADES				<b>AQUA-AEROBIC SYSTEMS, INC.</b> <small>A Metawater Company</small>	
JOB LOCATION: NAPANEE, ONTARIO, CANADA					
<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES</small>				<small>FRACTIONAL DIMENSIONS: ±.1/16" ANS</small> <small>ALL TWO PLACE DECIMALS: ±.010"</small> <small>ALL THREE PLACE DECIMALS: ±.005"</small> <small>ALL ANGLES: ±.12°</small>	
<small>DO NOT SCALE DRAWING</small>					
MATERIAL: 304 SS				SIMILAR TO: 911689230021	
TYPE: AQUANEREDA				DRAWN BY: JFM DATE: 2024-10-08	
REV		DATE		BY	
A		2024-10-08		JFM SUBMITTAL	
DRAWING NAME: SCUM BAFFLE INSTL, AGS 3				DRAWING NUMBER: 9704419A30015	
SCALE: 1:78				SIZE: D	

CONFIDENTIAL

**SENSOR INSTALLATION NOTES:**

- UNLESS NOTED OTHERWISE, AFTER COMPLETION OF INSTALLATION AND WIRING, SENSORS ARE TO BE REMOVED AND RETURNED TO STORAGE UNTIL COMMISSIONING. FAILURE TO REMOVE SENSORS TO STORAGE PER GUIDELINES IN OPERATION AND MAINTENANCE SECTION 1 MAY RESULT IN SENSOR DAMAGE AND VOID WARRANTY.
- USE THREAD SEALANT OR TAPE ON ALL PIPE THREADS.
- SENSOR CABLE MUST NOT BE CUT, BUT COILED TOGETHER AND ATTACHED TO THE BASIN HANDRAILING FOR FUTURE ADJUSTMENTS OF THE SENSOR.
- USE TY-WRAPS PROVIDED TO COIL EXCESS LENGTH OF SENSOR CABLE TOGETHER.
- ALL THREADED FASTENERS MUST BE SECURED WITH A FULL NUT AND A JAM NUT.
- ANTI-SEIZE LUBRICANT IS REQUIRED ON ALL STAINLESS STEEL FASTENERS.
- DO NOT CRIMP OR DISTORT SENSOR CABLE. LIMIT THE MINIMUM BEND RADIUS TO (2) INCHES [50mm]. PROTECT EXPOSED CABLE FROM SOURCES OF POSSIBLE ACCIDENTAL DAMAGE.

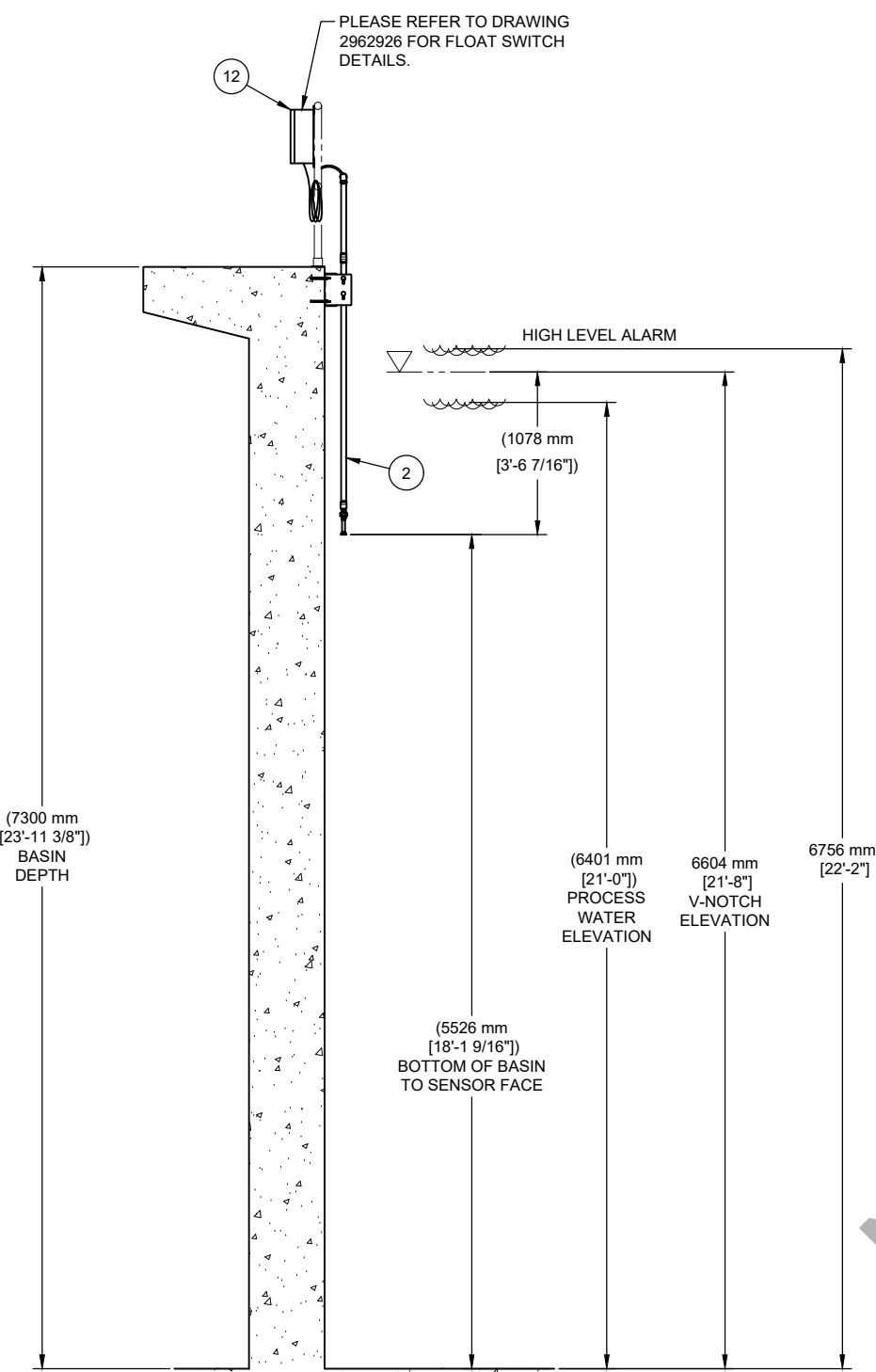


**CORD GRIP PREPARATION NOTES:**

- LOCATE 1\" NYLON CORD GRIP (ITEM #5). USE A 23/64\" [9.12mm] BIT TO DRILL HOLE IN THE CENTER OF THE SOLID INSERT GROMMET
- AFTER DRILLING THE HOLE, SLIT THE SIDE OF THE INSERT GROMMET FROM THE GROMMET LIP TO THE CENTER OF THE HOLE AND DOWN THE SIDE THROUGH THE DRILLED HOLE.
- SLIDE THE BOTTOM THREADED PART OF CORD GRIP OVER THE SENSOR CABLE WITH THREADS FACING THE MOUNTING PIPE. SPREAD GROMMET APART AT SLIT AND SLIDE OVER SENSOR CABLE.
- INSERT THE GROMMET, LIP END FIRST, INTO THE FINGER GRIPS OF THE CORD GRIP. ROTATE GROMMET WITH THE ANGLE OF THE FINGER GRIPS, AS YOU PUSH THE GROMMET INTO THE CORD GRIP UNTIL IT SNAPS INTO PLACE.

**SENSOR COMPONENT WEIGHTS:**

SENSOR PIPE WELDMENT	13 LBS [6 kg]
SENSOR ASSEMBLY (LEVEL)	3.6 LBS [2 kg]



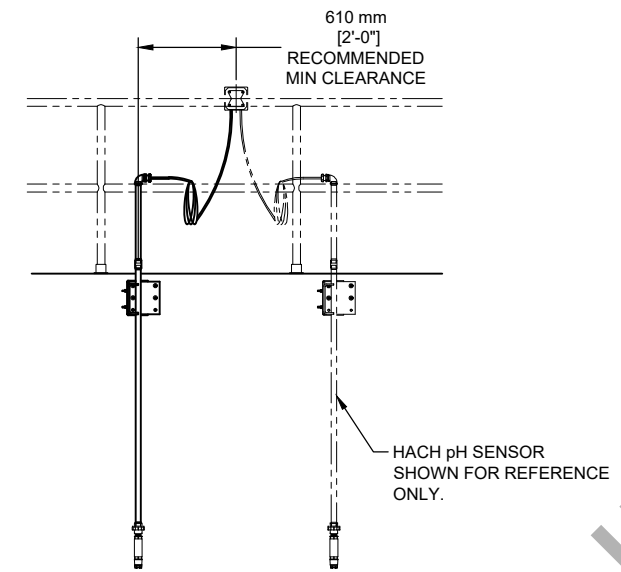
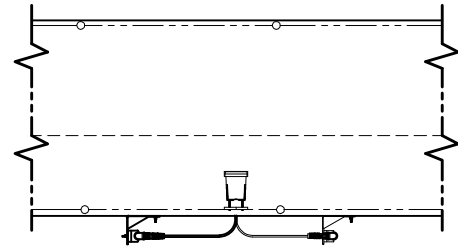
NOT FOR PRELIMINARY CONSTRUCTION

**CONFIDENTIAL**

JOB NAME: NAPANEE WPCP UPGRADES		AQUA-AEROBIC SYSTEMS, INC. <small>A Molecular Company</small>	
JOB LOCATION: NAPANEE, ONTARIO, CANADA		UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES	
DO NOT SCALE DRAWING		FRACTIONAL DIMENSIONS ±.010 ALL TWO PLACE DECIMALS ALL THREE PLACE DECIMALS ±.005 ALL ANGLES ±.1° ANSI	
MATERIAL:		M-SENSOR-13	
SIMILAR TO:		TYPE:	
A 2024-10-07 CJC SUBMITTAL		DRAWN BY: CJC DATE: 2024-10-01	
REV ERN / ECO DATE BY REVISION DESCRIPTION		WEIGHT: SHEET: 1 OF 1	
DRAWING NAME: LEVEL SENSOR INSTL, AGS		DRAWING NUMBER: 9704419A30016 SCALE: 1/24 SIZE: D	

**SENSOR INSTALLATION NOTES:**

- UNLESS NOTED OTHERWISE, AFTER COMPLETION OF INSTALLATION AND WIRING, SENSORS ARE TO BE REMOVED AND RETURNED TO STORAGE UNTIL COMMISSIONING. FAILURE TO REMOVE SENSORS TO STORAGE PER GUIDELINES IN OPERATION AND MAINTENANCE SECTION 1 MAY RESULT IN SENSOR DAMAGE AND VOID WARRANTY.
- USE THREAD SEALANT OR TAPE ON ALL PIPE THREADS.
- SENSOR CABLE MUST NOT BE CUT, BUT COILED TOGETHER AND ATTACHED TO THE BASIN HANDRAILING FOR FUTURE ADJUSTMENTS OF THE SENSOR.
- USE TY-WRAPS PROVIDED TO COIL EXCESS LENGTH OF SENSOR CABLE TOGETHER.
- ALL THREADED FASTENERS MUST BE SECURED WITH A FULL NUT AND A JAM NUT.
- ANTI-SEIZE LUBRICANT IS REQUIRED ON ALL STAINLESS STEEL FASTENERS.
- DO NOT CRIMP OR DISTORT SENSOR CABLE. LIMIT THE MINIMUM BEND RADIUS TO (2) INCHES [50mm]. PROTECT EXPOSED CABLE FROM SOURCES OF POSSIBLE ACCIDENTAL DAMAGE.

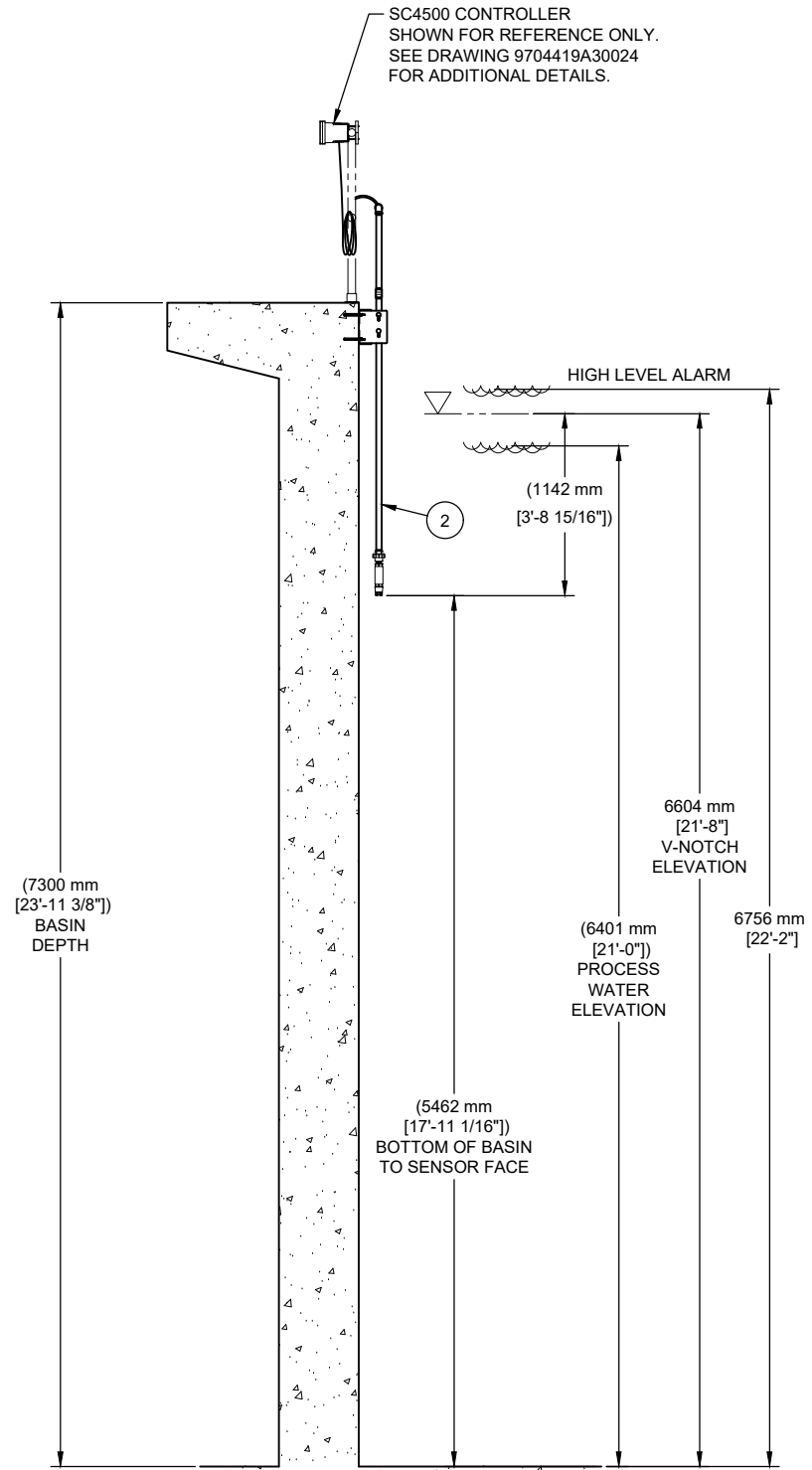
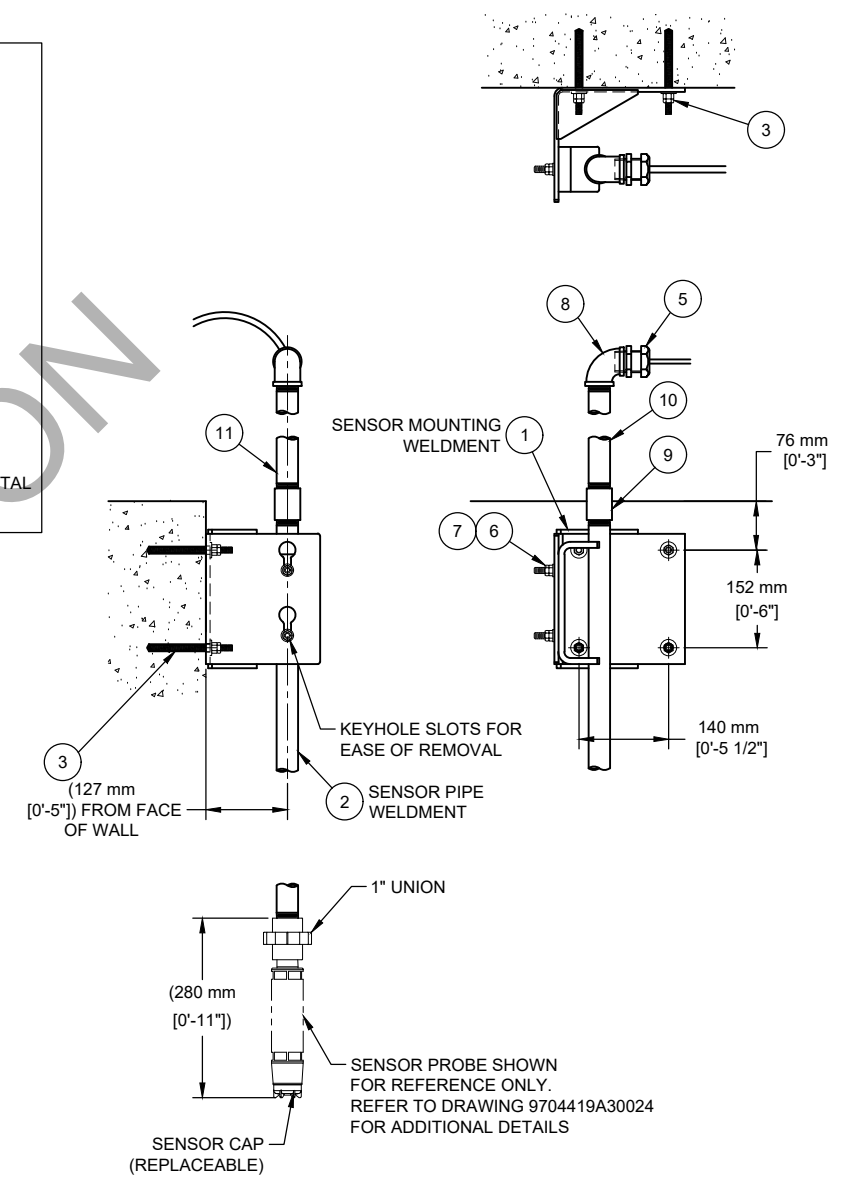


**CORD GRIP PREPARATION NOTES:**

- LOCATE 1" NYLON CORD GRIP (ITEM #5). USE A 23/64" [9.12mm] BIT TO DRILL HOLE IN THE CENTER OF THE SOLID INSERT GROMMET
- AFTER DRILLING THE HOLE, SLIT THE SIDE OF THE INSERT GROMMET FROM THE GROMMET LIP TO THE CENTER OF THE HOLE AND DOWN THE SIDE THROUGH THE DRILLED HOLE.
- SLIDE THE BOTTOM THREADED PART OF CORD GRIP OVER THE SENSOR CABLE WITH THREADS FACING THE MOUNTING PIPE. SPREAD GROMMET APART AT SLIT AND SLIDE OVER SENSOR CABLE.
- INSERT THE GROMMET, LIP END FIRST, INTO THE FINGER GRIPS OF THE CORD GRIP. ROTATE GROMMET WITH THE ANGLE OF THE FINGER GRIPS, AS YOU PUSH THE GROMMET INTO THE CORD GRIP UNTIL IT SNAPS INTO PLACE.

**SENSOR COMPONENT WEIGHTS:**

SENSOR PIPE WELDMENT	13 LBS [6 kg]
SENSOR ASSEMBLY (DO)	3.6 LBS [2 kg]



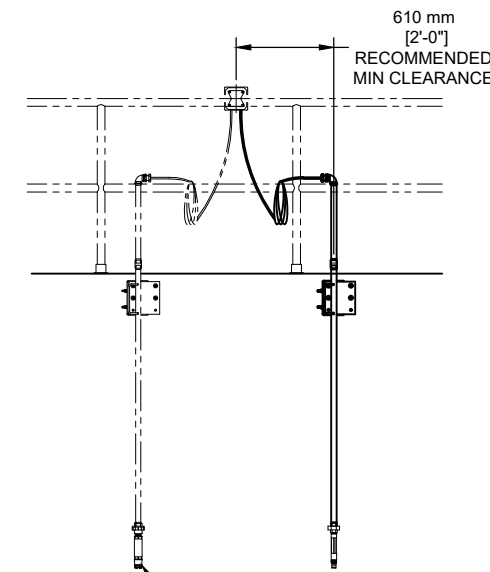
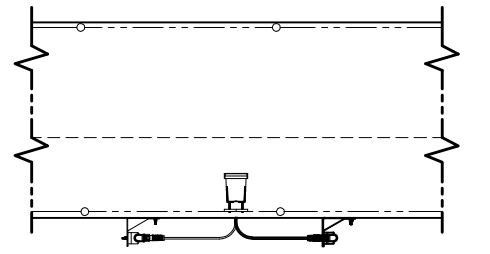
NOT FOR PRELIMINARY CONSTRUCTION

**CONFIDENTIAL**

JOB NAME: NAPANEE WPCP UPGRADES		AQUA-AEROBIC SYSTEMS, INC. <small>A Molecular Company</small>	
JOB LOCATION: NAPANEE, ONTARIO, CANADA		UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES	
DO NOT SCALE DRAWING		FRACTIONAL DIMENSIONS ±0.010 ALL TWO PLACE DECIMALS ±0.005 ALL THREE PLACE DECIMALS ±0.002 ALL ANGLES ±1.0°	
MATERIAL:		ANSI	
SIMILAR TO: M-SENSOR-13		TYPE:	
DRAWN BY: CJC		DATE: 2024-10-01	
REV: A		2024-10-07	
BY: CJC		SUBMITTAL	
DRAWING NAME: DISSOLVED OXYGEN SENSOR INSTL, AGS		DRAWING NUMBER: 9704419A30018	
SCALE: 1/24		SIZE: D	

**SENSOR INSTALLATION NOTES:**

- UNLESS NOTED OTHERWISE, AFTER COMPLETION OF INSTALLATION AND WIRING, SENSORS ARE TO BE REMOVED AND RETURNED TO STORAGE UNTIL COMMISSIONING. FAILURE TO REMOVE SENSORS TO STORAGE PER GUIDELINES IN OPERATION AND MAINTENANCE SECTION 1 MAY RESULT IN SENSOR DAMAGE AND VOID WARRANTY.
- USE THREAD SEALANT OR TAPE ON ALL PIPE THREADS.
- SENSOR CABLE MUST NOT BE CUT, BUT COILED TOGETHER AND ATTACHED TO THE BASIN HANDRAILING FOR FUTURE ADJUSTMENTS OF THE SENSOR.
- USE TY-WRAPS PROVIDED TO COIL EXCESS LENGTH OF SENSOR CABLE TOGETHER.
- ALL THREADED FASTENERS MUST BE SECURED WITH A FULL NUT AND A JAM NUT.
- ANTI-SEIZE LUBRICANT IS REQUIRED ON ALL STAINLESS STEEL FASTENERS.
- DO NOT CRIMP OR DISTORT SENSOR CABLE. LIMIT THE MINIMUM BEND RADIUS TO (2) INCHES [50mm]. PROTECT EXPOSED CABLE FROM SOURCES OF POSSIBLE ACCIDENTAL DAMAGE.



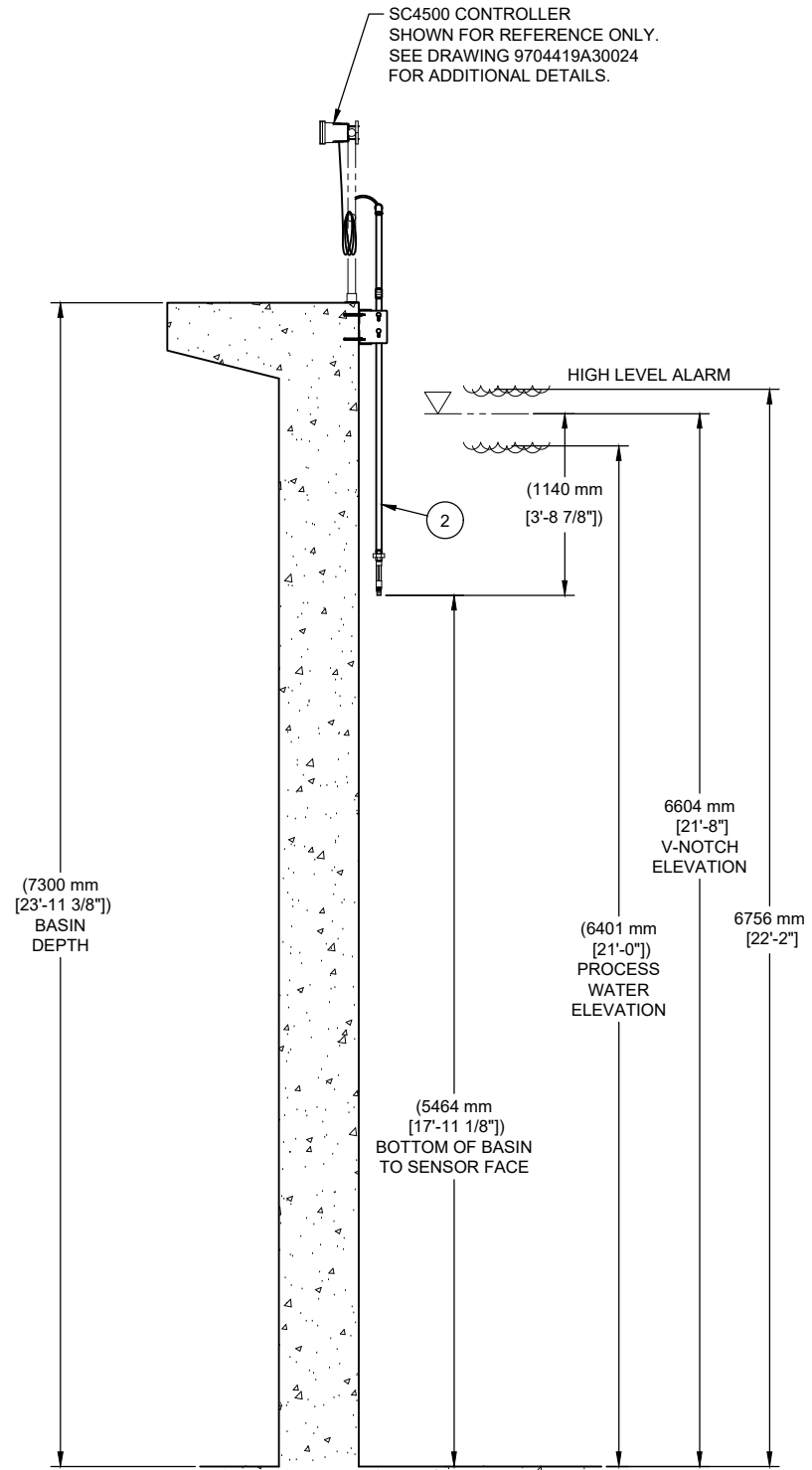
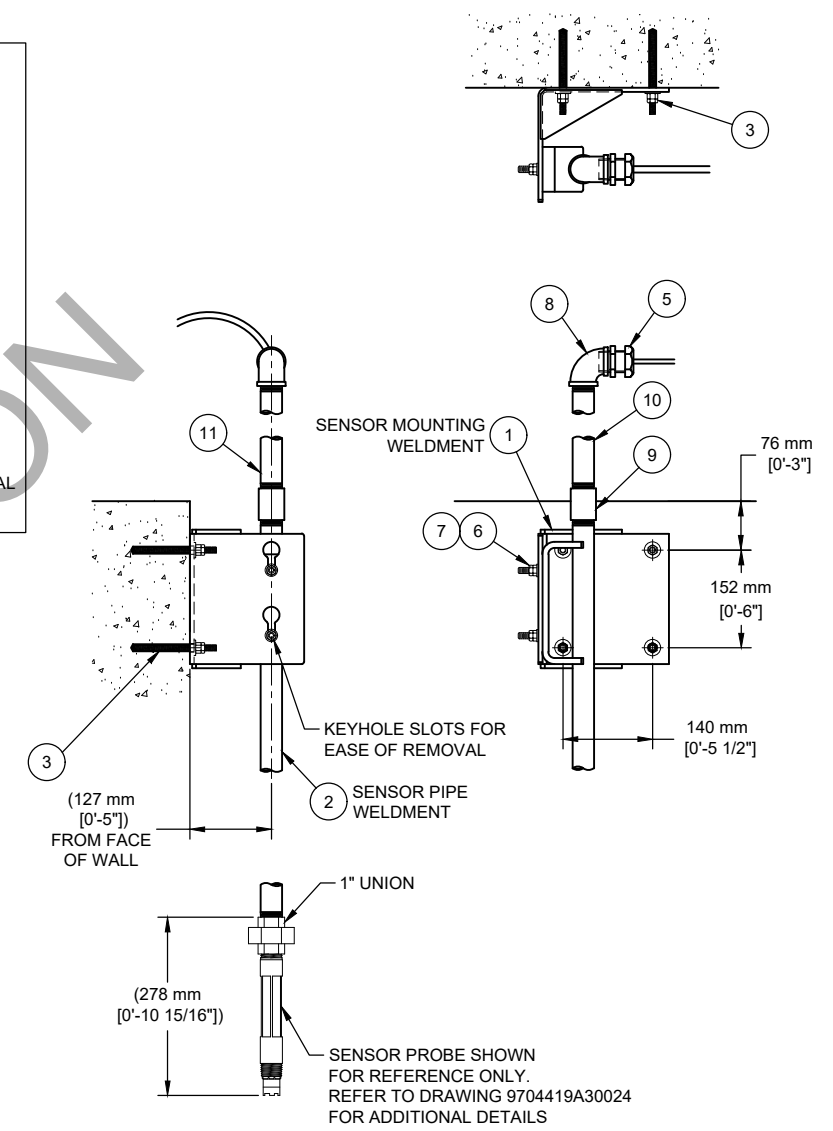
HACH DISSOLVED OXYGEN SENSOR SHOWN FOR REFERENCE ONLY.

**CORD GRIP PREPARATION NOTES:**

- LOCATE 1" NYLON CORD GRIP (ITEM #5). USE A 23/64" [9.12mm] BIT TO DRILL HOLE IN THE CENTER OF THE SOLID INSERT GROMMET
- AFTER DRILLING THE HOLE, SLIT THE SIDE OF THE INSERT GROMMET FROM THE GROMMET LIP TO THE CENTER OF THE HOLE AND DOWN THE SIDE THROUGH THE DRILLED HOLE.
- SLIDE THE BOTTOM THREADED PART OF CORD GRIP OVER THE SENSOR CABLE WITH THREADS FACING THE MOUNTING PIPE. SPREAD GROMMET APART AT SLIT AND SLIDE OVER SENSOR CABLE.
- INSERT THE GROMMET, LIP END FIRST, INTO THE FINGER GRIPS OF THE CORD GRIP. ROTATE GROMMET WITH THE ANGLE OF THE FINGER GRIPS, AS YOU PUSH THE GROMMET INTO THE CORD GRIP UNTIL IT SNAPS INTO PLACE.

**SENSOR COMPONENT WEIGHTS:**

SENSOR PIPE WELDMENT	13 LBS [6 kg]
SENSOR ASSEMBLY (PH)	3.6 LBS [2 kg]



SC4500 CONTROLLER SHOWN FOR REFERENCE ONLY. SEE DRAWING 9704419A30024 FOR ADDITIONAL DETAILS.

610 mm [2'-0"] RECOMMENDED MIN CLEARANCE

HACH DISSOLVED OXYGEN SENSOR SHOWN FOR REFERENCE ONLY.

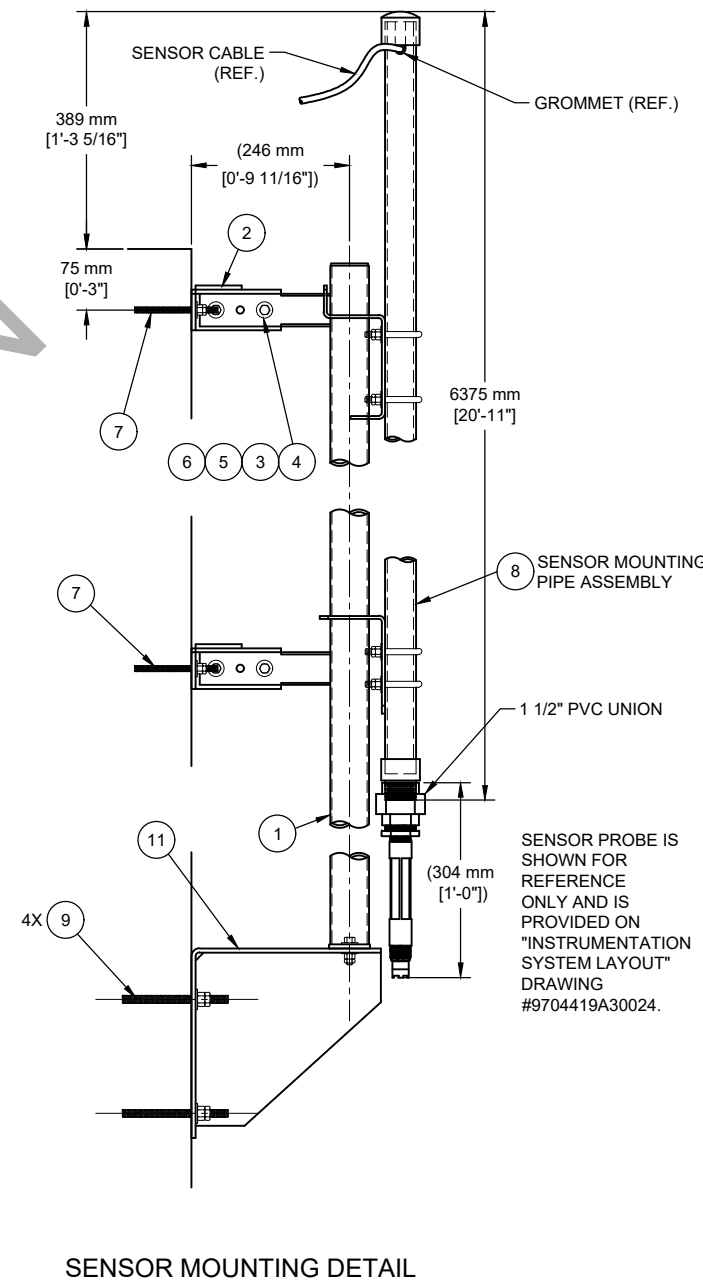
NOT FOR PRELIMINARY CONSTRUCTION

**CONFIDENTIAL**

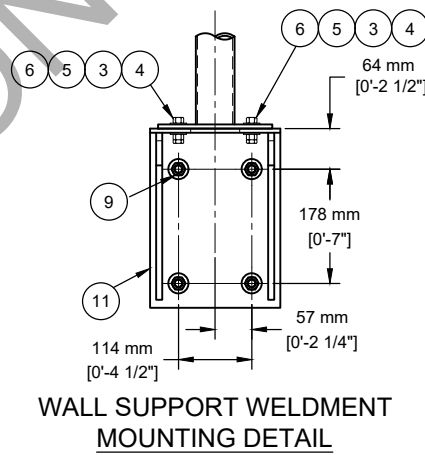
JOB NAME: NAPANEE WPCP UPGRADES		AQUA-AEROBIC SYSTEMS, INC.	
JOB LOCATION: NAPANEE, ONTARIO, CANADA		A Water Company	
DO NOT SCALE DRAWING		UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES	
MATERIAL:		FRACTIONAL DIMENSIONS ±.010	
SIMILAR TO: M-SENSOR-13		ALL TWO PLACE DECIMALS ±.005	
TYPE:		ALL THREE PLACE DECIMALS ±.001	
DRAWN BY: CJC		DATE: 2024-10-01	
REV: A		DATE: 2024-10-07	
BY: CJC		SUBMITTAL	
DRAWING NAME: PH SENSOR INSTL, AGS		DRAWING NUMBER: 9704419A30019	
SCALE: 1/24		SHEET: 1 OF 1	

**SENSOR INSTALLATION NOTES:**

- UNLESS NOTED OTHERWISE, AFTER COMPLETION OF INSTALLATION AND WIRING, SENSORS ARE TO BE REMOVED AND RETURNED TO STORAGE UNTIL COMMISSIONING. FAILURE TO RETURN SENSORS TO STORAGE PER GUIDELINES IN OPERATION AND MAINTENANCE SECTION 1 MAY RESULT IN SENSOR DAMAGE AND VOID WARRANTY.
- MOUNT GUIDE RAIL ASSEMBLY TO BASIN BEFORE INSTALLING SENSOR TO THE MOUNTING PIPE ASSEMBLY. MOUNT THE GUIDE RAIL ASSEMBLY LEVEL AND PLUMB. REFER TO THE SYSTEM PLAN VIEW DRAWING FOR LOCATION OF THE SENSORS IN THE BASIN.
- USE THREAD SEALANT OR TAPE ON ALL PIPE THREADS.
- ANTI-SEIZE LUBRICANT IS REQUIRED ON ALL STAINLESS STEEL FASTENERS. UNLESS OTHERWISE NOTED.
- SENSOR CABLE MUST NOT BE CUT, BUT COILED TOGETHER AND ATTACHED TO THE BASIN HANDRAILING WITH THE TY-WRAPS PROVIDED.
- ASSEMBLE SENSOR TO THE MOUNTING PIPE ASSEMBLY. SOME SENSOR CABLES CONTAIN A VENT TUBE TO REFERENCE ATMOSPHERIC PRESSURE. DO NOT CRIMP OR DISTORT CABLE. LIMIT THE MINIMUM BEND RADIUS TO (2) INCHES. PROTECT EXPOSED CABLE FROM SOURCES OF ACCIDENTAL DAMAGE.
- WITH SENSOR ASSEMBLED TO MOUNTING PIPE, SLIDE THE ASSEMBLY OVER THE GUIDE RAIL. ATTACH SENSOR CABLE TO JUNCTION BOX OR CONTROLLER AS NECESSARY.



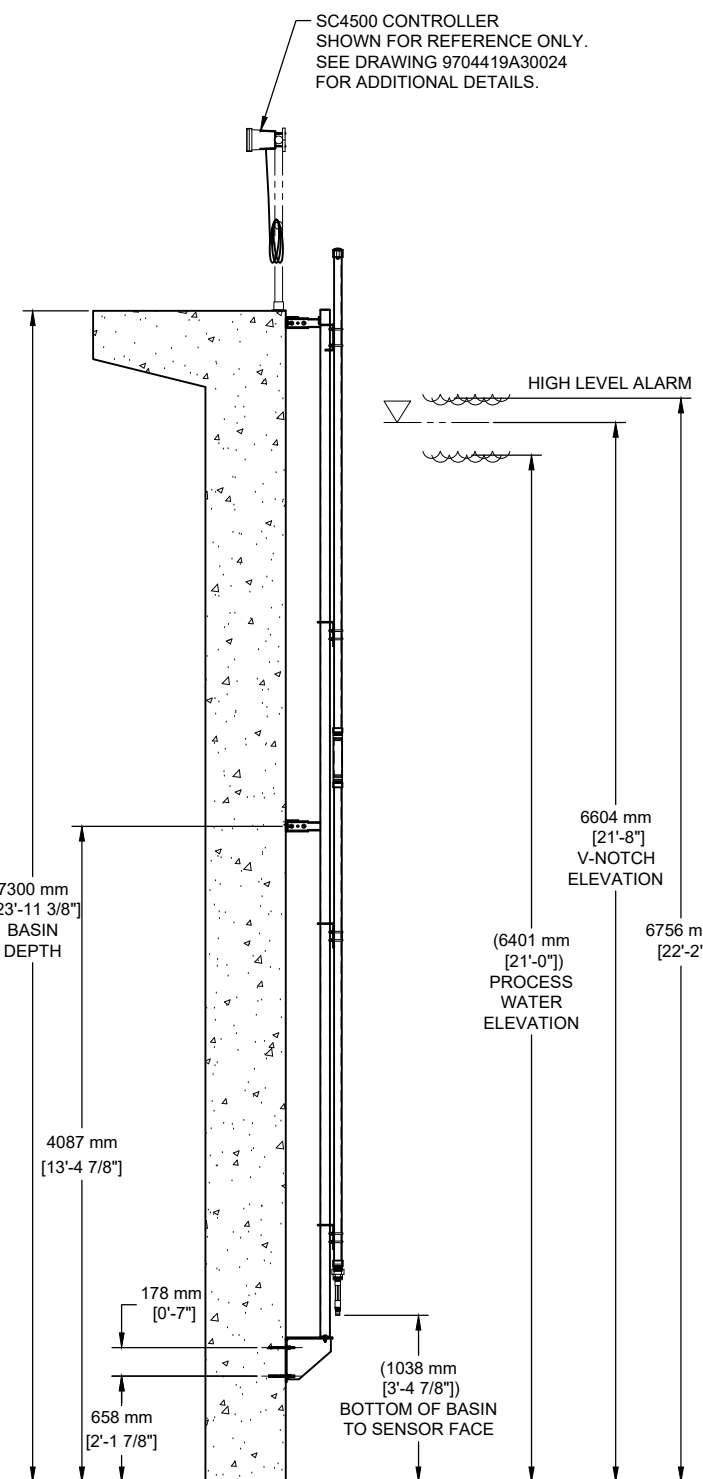
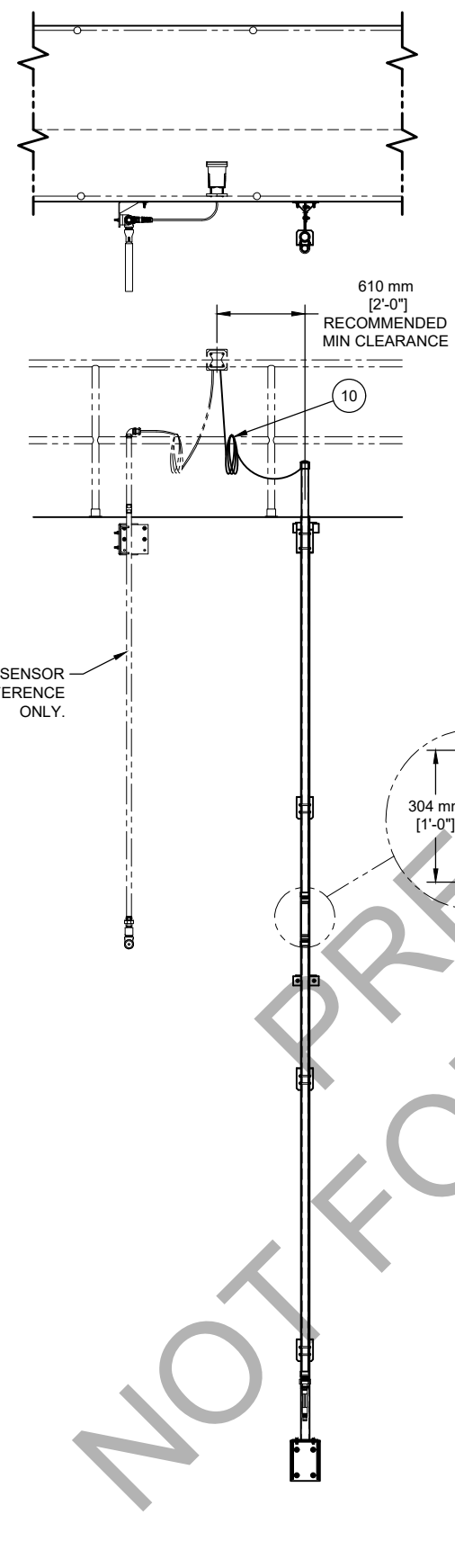
SENSOR PROBE IS SHOWN FOR REFERENCE ONLY AND IS PROVIDED ON "INSTRUMENTATION SYSTEM LAYOUT" DRAWING #9704419A30024.



**WALL SUPPORT WELDMENT MOUNTING DETAIL**

**SENSOR COMPONENT WEIGHTS:**

SENSOR GUIDE RAIL	61 LBS [28 kg]
SENSOR PIPE (PVC)	22 LBS [10 kg]
WALL SUPPORT BASE	24 LBS [11 kg]
SENSOR ASSEMBLY (ORP)	3.6 LBS [2 kg]



SC4500 CONTROLLER SHOWN FOR REFERENCE ONLY. SEE DRAWING 9704419A30024 FOR ADDITIONAL DETAILS.

HIGH LEVEL ALARM

HACH TSS SENSOR SHOWN FOR REFERENCE ONLY.

6604 mm [21'-8"] V-NOTCH ELEVATION

(6401 mm [21'-0"]) PROCESS WATER ELEVATION

6756 mm [22'-2"]

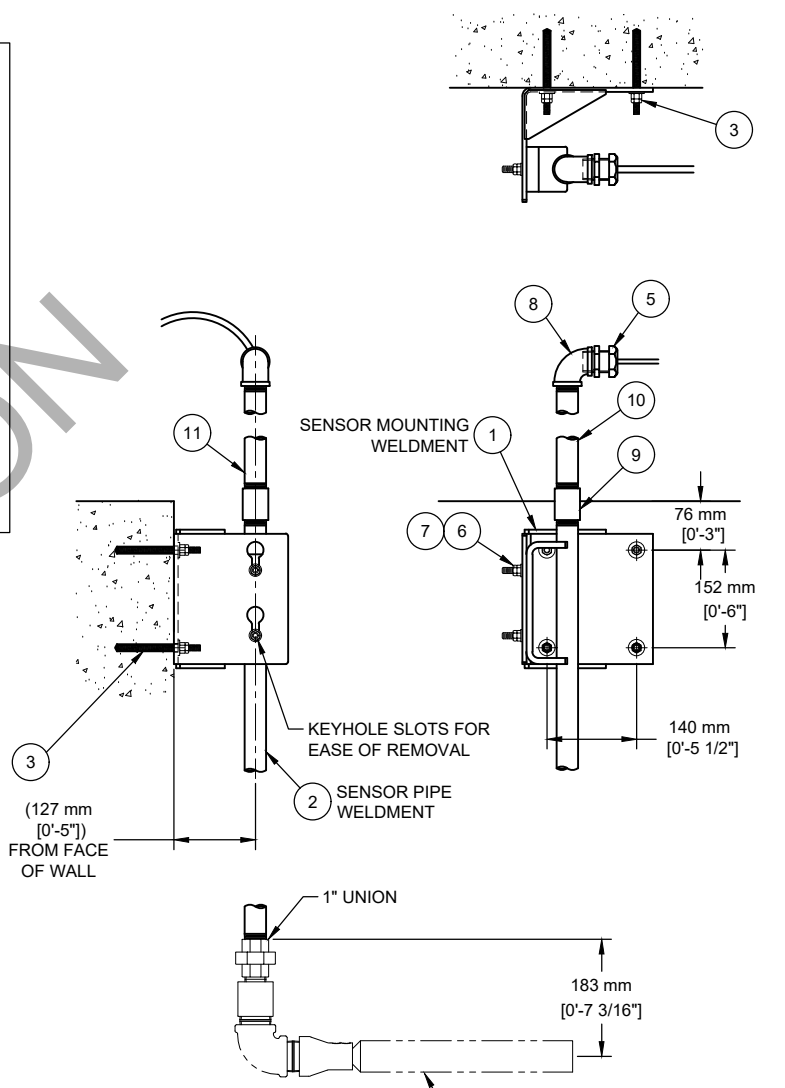
(1038 mm [3'-4 7/8"]) BOTTOM OF BASIN TO SENSOR FACE

**CONFIDENTIAL**

JOB NAME: NAPANEE WPCP UPGRADES		AQUA-AEROBIC SYSTEMS, INC.	
JOB LOCATION: NAPANEE, ONTARIO, CANADA		A Microbacter Company	
DO NOT SCALE DRAWING		UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES	
MATERIAL:		FRACTIONAL DIMENSIONS ±.010	
SIMILAR TO: M-SENSOR-14		ALL TWO PLACE DECIMALS ±.005	
TYPE:		ALL THREE PLACE DECIMALS ±.0005	
DRAWN BY: CJC		ALL ANGLES ±.02°	
DATE: 2024-10-01		ANSI	
REVISION DESCRIPTION		WEIGHT:	
DRAWING NUMBER: 9704419A30020		SHEET: 1 OF 1	
SCALE: 1/24		SIZE: D	

**SENSOR INSTALLATION NOTES:**

- UNLESS NOTED OTHERWISE, AFTER COMPLETION OF INSTALLATION AND WIRING, SENSORS ARE TO BE REMOVED AND RETURNED TO STORAGE UNTIL COMMISSIONING. FAILURE TO REMOVE SENSORS TO STORAGE PER GUIDELINES IN OPERATION AND MAINTENANCE SECTION 1 MAY RESULT IN SENSOR DAMAGE AND VOID WARRANTY.
- USE THREAD SEALANT OR TAPE ON ALL PIPE THREADS.
- SENSOR CABLE MUST NOT BE CUT, BUT COILED TOGETHER AND ATTACHED TO THE BASIN HANDRAILING FOR FUTURE ADJUSTMENTS OF THE SENSOR.
- USE TY-WRAPS PROVIDED TO COIL EXCESS LENGTH OF SENSOR CABLE TOGETHER.
- ALL THREADED FASTENERS MUST BE SECURED WITH A FULL NUT AND A JAM NUT.
- ANTI-SEIZE LUBRICANT IS REQUIRED ON ALL STAINLESS STEEL FASTENERS.
- DO NOT CRIMP OR DISTORT SENSOR CABLE. LIMIT THE MINIMUM BEND RADIUS TO (2) INCHES [50mm]. PROTECT EXPOSED CABLE FROM SOURCES OF POSSIBLE ACCIDENTAL DAMAGE.

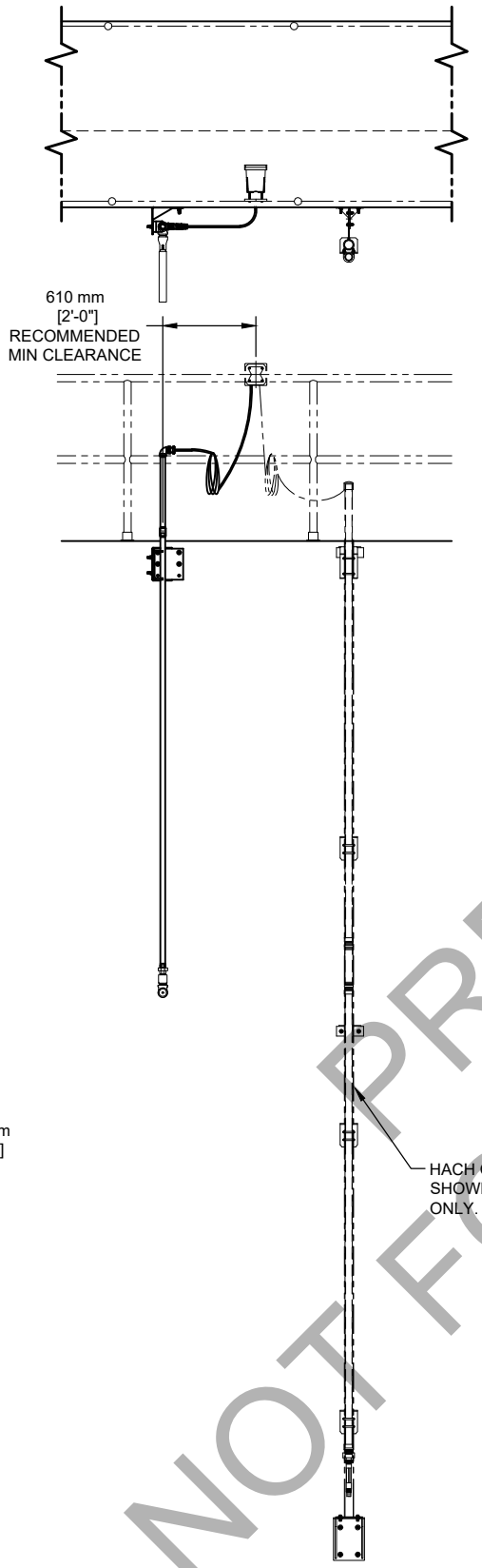
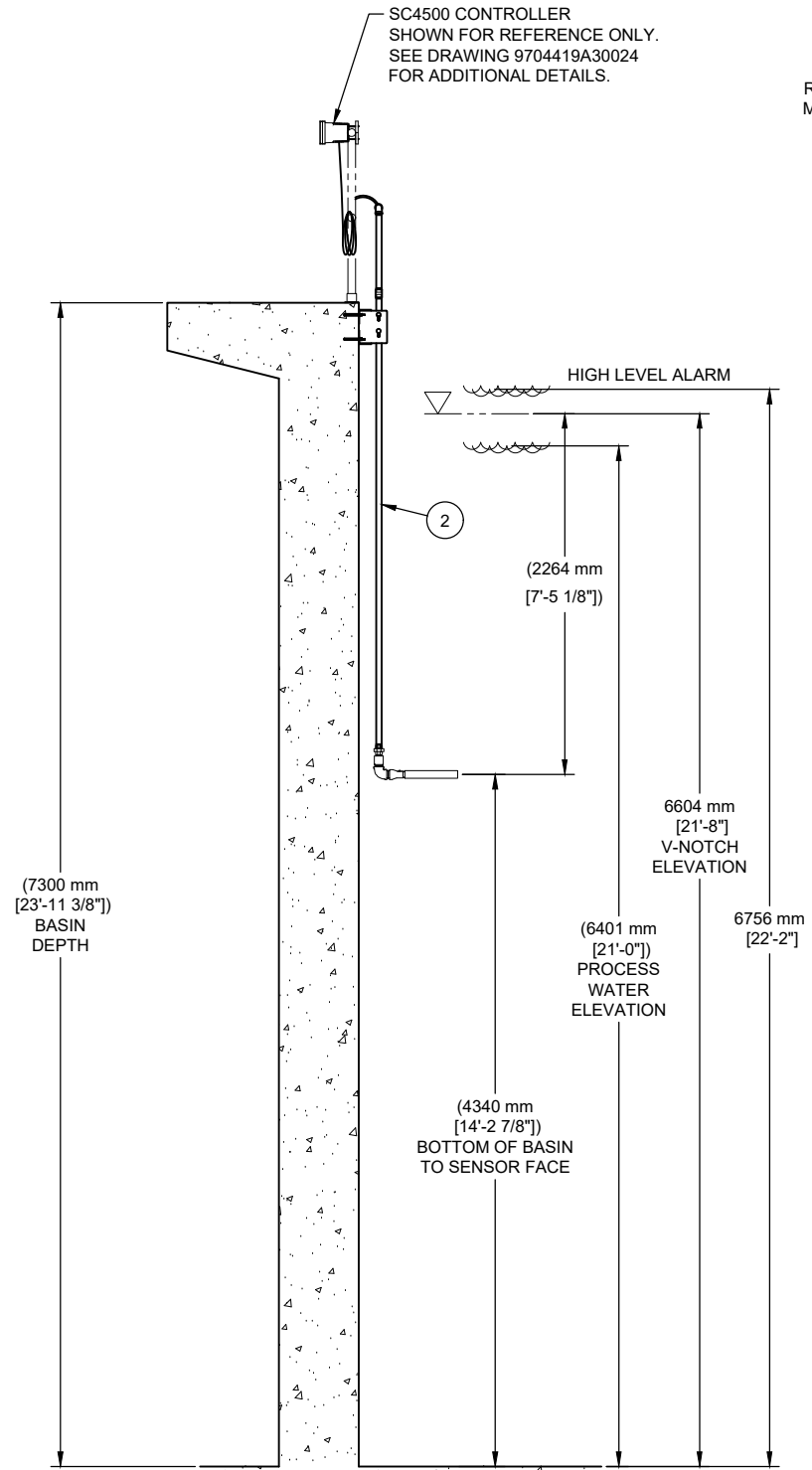


**CORD GRIP PREPARATION NOTES:**

- LOCATE 1" NYLON CORD GRIP (ITEM #5). USE A 23/64" [9.12mm] BIT TO DRILL HOLE IN THE CENTER OF THE SOLID INSERT GROMMET
- AFTER DRILLING THE HOLE, SLIT THE SIDE OF THE INSERT GROMMET FROM THE GROMMET LIP TO THE CENTER OF THE HOLE AND DOWN THE SIDE THROUGH THE DRILLED HOLE.
- SLIDE THE BOTTOM THREADED PART OF CORD GRIP OVER THE SENSOR CABLE WITH THREADS FACING THE MOUNTING PIPE. SPREAD GROMMET APART AT SLIT AND SLIDE OVER SENSOR CABLE.
- INSERT THE GROMMET, LIP END FIRST, INTO THE FINGER GRIPS OF THE CORD GRIP. ROTATE GROMMET WITH THE ANGLE OF THE FINGER GRIPS, AS YOU PUSH THE GROMMET INTO THE CORD GRIP UNTIL IT SNAPS INTO PLACE.

**SENSOR COMPONENT WEIGHTS:**

SENSOR PIPE WELDMENT	19 LBS [9 kg]
SENSOR ASSEMBLY (TSS)	3.6 LBS [2 kg]



NOT FOR PRELIMINARY CONSTRUCTION

**CONFIDENTIAL**

JOB NAME: NAPANEE WPCP UPGRADES		AQUA-AEROBIC SYSTEMS, INC.	
JOB LOCATION: NAPANEE, ONTARIO, CANADA		A Molecular Company	
DO NOT SCALE DRAWING		UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES	
MATERIAL:		FRACTIONAL DIMENSIONS ±.010	
SIMILAR TO: M-SENSOR-13		ALL TWO PLACE DECIMALS ±.005	
TYPE:		ALL THREE PLACE DECIMALS ±.001	
DRAWN BY: CJC		DATE: 2024-10-01	
REVISION DESCRIPTION		SHEET: 1 OF 1	
DRAWING NAME: TSS SENSOR INSTL, AGS		SCALE: 1/24	
DRAWING NUMBER: 9704419A30021		SIZE: D	



ALL PROVISIONS FOR MOUNTING ANALYZERS IN AN ACCESSIBLE LOCATION IS TO BE THE RESPONSIBILITY OF THE CONTRACTOR / ENGINEER

PHOSPHAX ANALYZER IS SHOWN FOR REFERENCE ONLY AND IS PROVIDED ON INSTRUMENTATION SYSTEM INSTALLATION DRAWING 9704419A30024

SC4500 CONTROLLER IS SHOWN FOR REFERENCE ONLY AND IS PROVIDED ON INSTRUMENTATION SYSTEM INSTALLATION DRAWING 9704419A30024

610 mm [2'-0"] RECOMMENDED

610 mm [2'-0"] RECOMMENDED

CONTROL UNIT (SUPPLIED WITH FILTRAX SAMPLE FILTRATION SYSTEM) IS SHOWN FOR REFERENCE ONLY AND IS PROVIDED ON INSTRUMENTATION SYSTEM INSTALLATION DRAWING 9704419A30024.

ALL PROVISIONS FOR MOUNTING CONTROL UNIT IN AN ACCESSIBLE LOCATION IS TO BE THE RESPONSIBILITY OF THE CONTRACTOR / ENGINEER

USE BRACKET AS THE TEMPLATE FOR DRILLING HOLES. REVIEW ANCHOR INSTALLATION DRAWING FOR DETAILS ON ANCHOR INSTALL

SUCTION HOSE TO CONTROL UNIT IS 5m (16.4 FT) LONG ☆ SECURE TO HANDRAILING WITH CABLE TIE WRAPS

DELIVERY HOSE TO ANALYZER IS 2m (6.5 FT) LONG

UNHEATED DRAIN HOSE (2m LONG) INCLUDED WITH ANALYZER

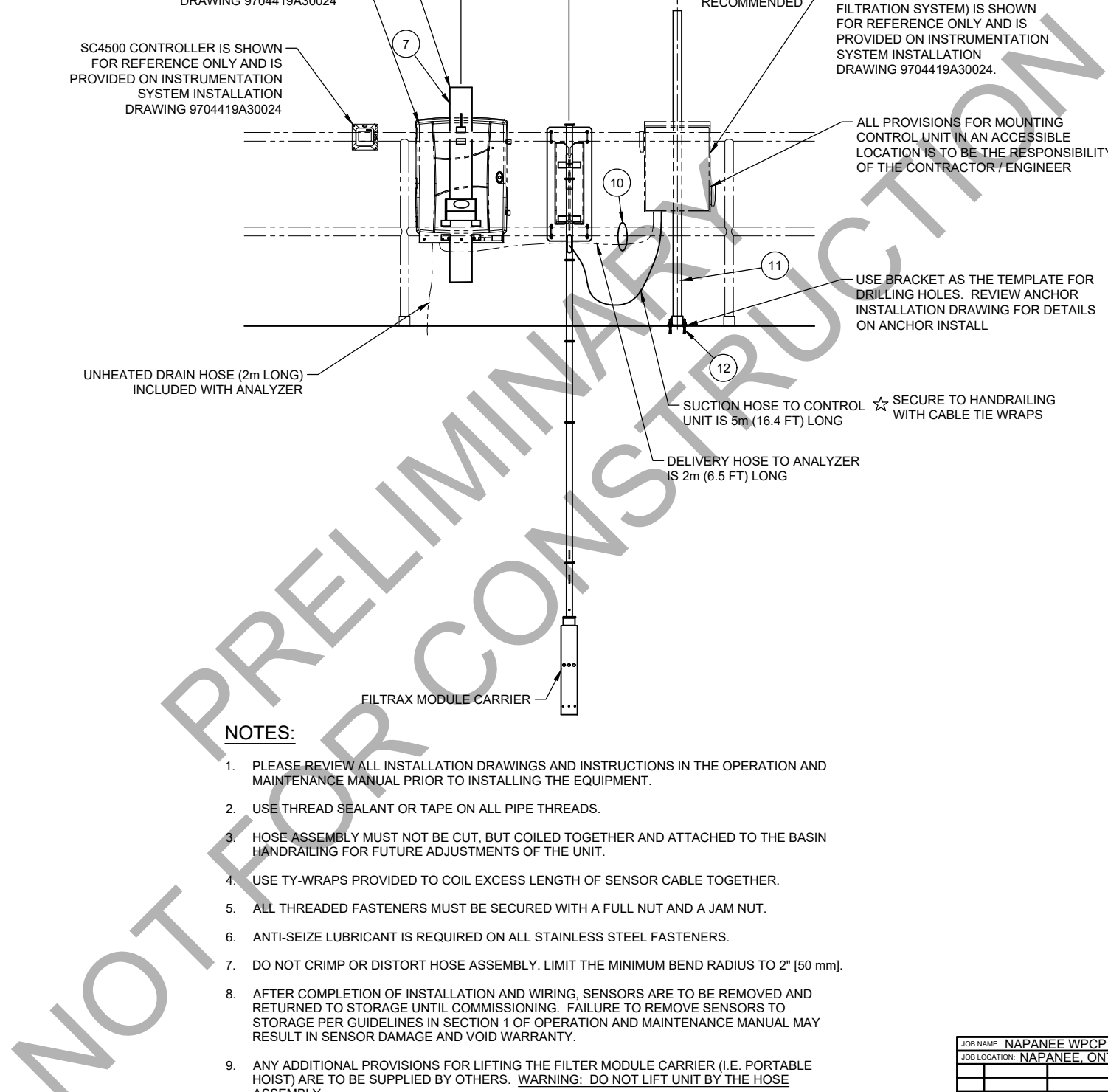
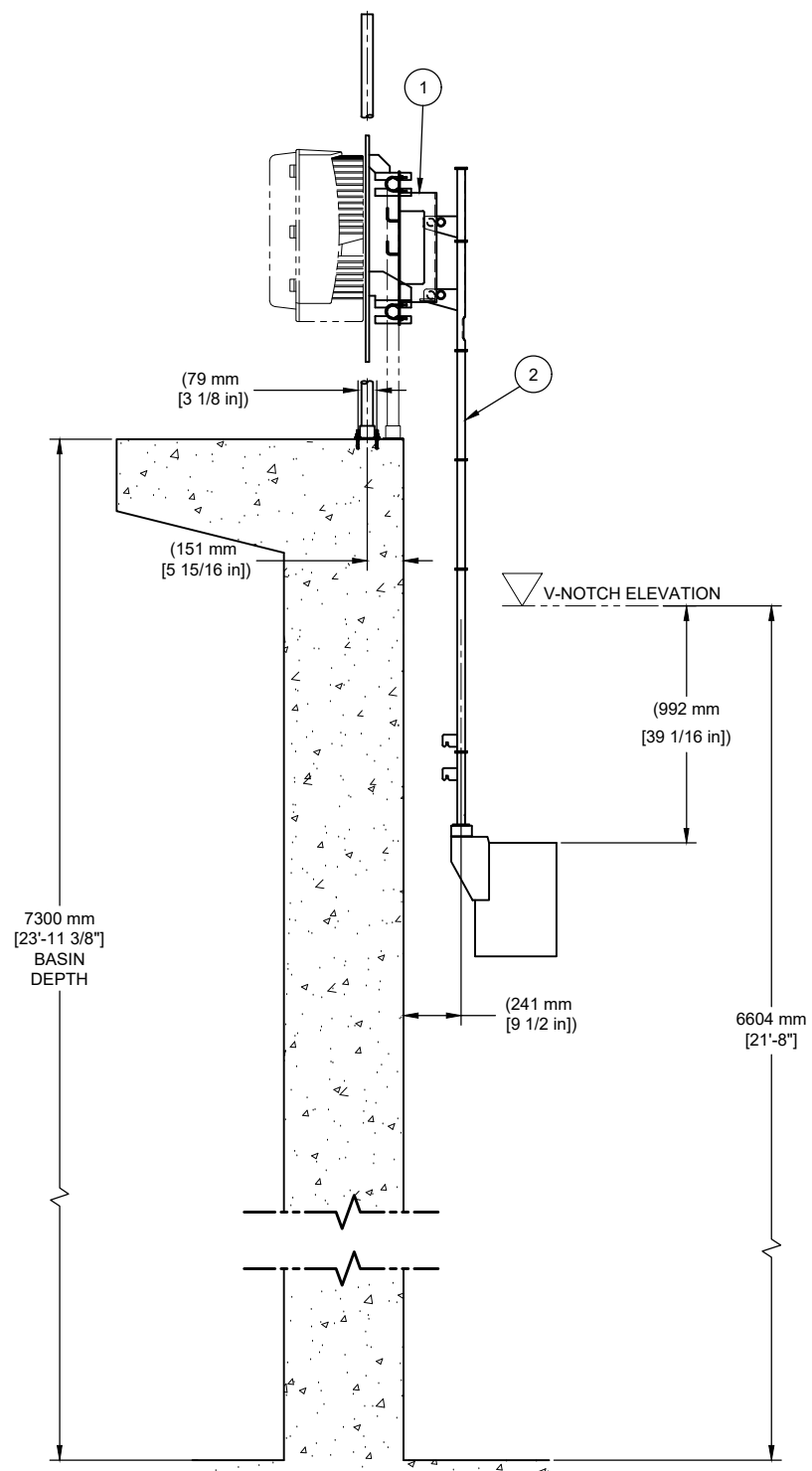
FILTRAX MODULE CARRIER

**NOTES:**

- PLEASE REVIEW ALL INSTALLATION DRAWINGS AND INSTRUCTIONS IN THE OPERATION AND MAINTENANCE MANUAL PRIOR TO INSTALLING THE EQUIPMENT.
- USE THREAD SEALANT OR TAPE ON ALL PIPE THREADS.
- HOSE ASSEMBLY MUST NOT BE CUT, BUT COILED TOGETHER AND ATTACHED TO THE BASIN HANDRAILING FOR FUTURE ADJUSTMENTS OF THE UNIT.
- USE TY-WRAPS PROVIDED TO COIL EXCESS LENGTH OF SENSOR CABLE TOGETHER.
- ALL THREADED FASTENERS MUST BE SECURED WITH A FULL NUT AND A JAM NUT.
- ANTI-SEIZE LUBRICANT IS REQUIRED ON ALL STAINLESS STEEL FASTENERS.
- DO NOT CRIMP OR DISTORT HOSE ASSEMBLY. LIMIT THE MINIMUM BEND RADIUS TO 2" [50 mm].
- AFTER COMPLETION OF INSTALLATION AND WIRING, SENSORS ARE TO BE REMOVED AND RETURNED TO STORAGE UNTIL COMMISSIONING. FAILURE TO REMOVE SENSORS TO STORAGE PER GUIDELINES IN SECTION 1 OF OPERATION AND MAINTENANCE MANUAL MAY RESULT IN SENSOR DAMAGE AND VOID WARRANTY.
- ANY ADDITIONAL PROVISIONS FOR LIFTING THE FILTER MODULE CARRIER (I.E. PORTABLE HOIST) ARE TO BE SUPPLIED BY OTHERS. **WARNING: DO NOT LIFT UNIT BY THE HOSE ASSEMBLY.**
- ALL ANALYZERS MUST BE INSTALLED AT THE SAME ELEVATION TO ALLOW FOR PROPER DRAINING.

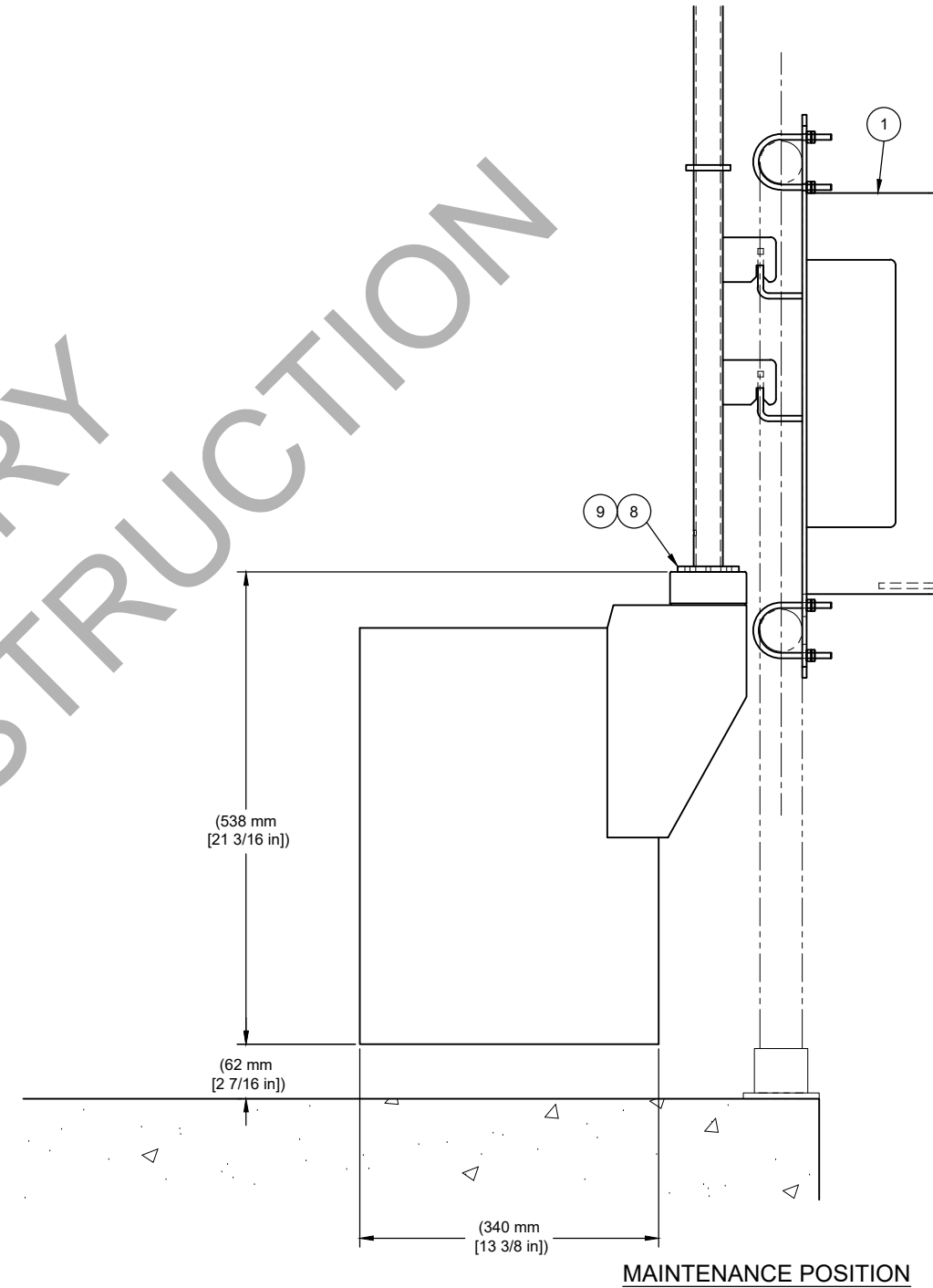
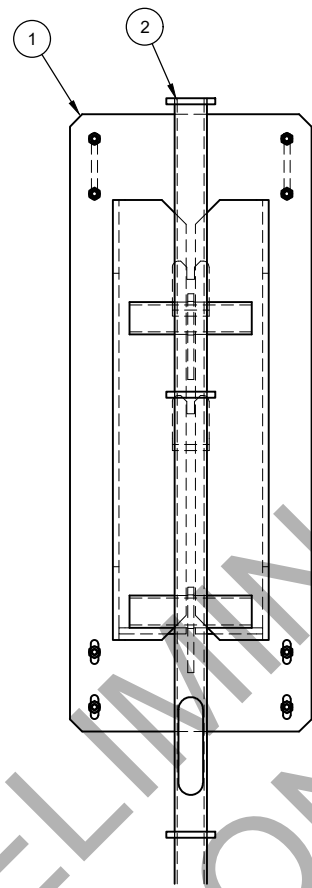
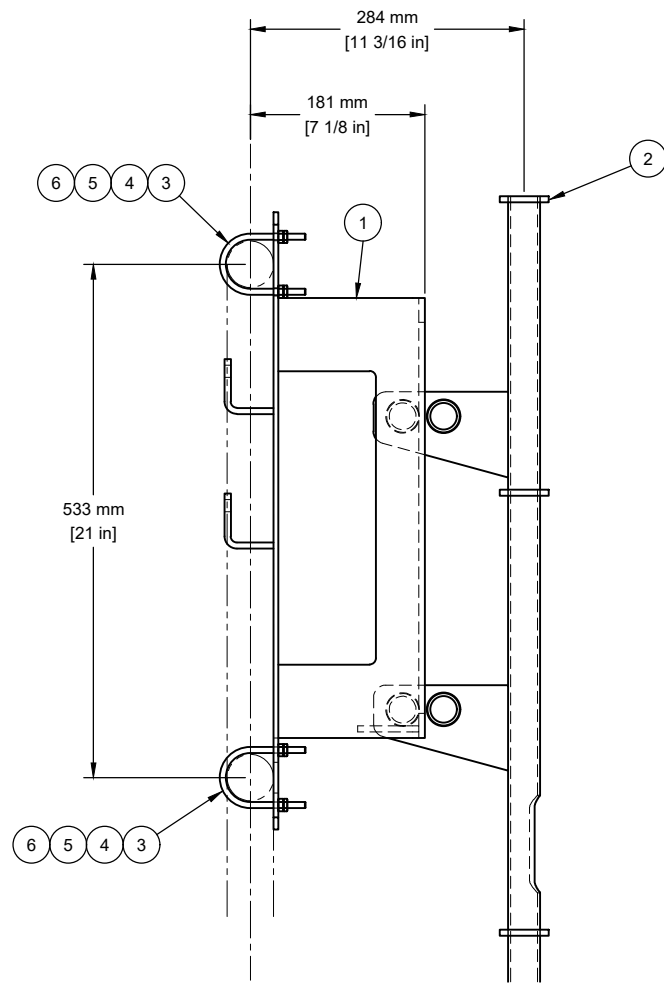
**SENSOR COMPONENT WEIGHTS:**

FILTRAX HANDRAIL ASSY	30 LBS [14 kg]
FILTRAX LIFTING POLE	21 LBS [9.5 kg]
MODULE CARRIER AND HOSE	20 LBS [9 kg]
CONTROL UNIT MOUNTING KIT	11 LBS [5 kg]



JOB NAME: NAPANEE WPCP UPGRADES		AQUA-AEROBIC SYSTEMS, INC. <small>A Molecular Company</small>	
JOB LOCATION: NAPANEE, ONTARIO, CANADA		UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES	
DO NOT SCALE DRAWING		FRACTIONAL DIMENSIONS ±0.010 ALL TWO PLACE DECIMALS ALL THREE PLACE DECIMALS ±0.005 ALL ANGLES ±0.10°	
MATERIAL:		ANSI	
SIMILAR TO:		TYPE: AGS	
DRAWN BY: CJC		DATE: 2024-10-02	
DATE: 2024-10-07		BY: CJC	
REVISION DESCRIPTION		SHEET: 1 OF 2	
DRAWING NAME: FILTRAX SAMPLING SYSTEM INSTL, AGS		SCALE: 1/16"	
DRAWING NUMBER: 9704419A30022		SIZE: D	

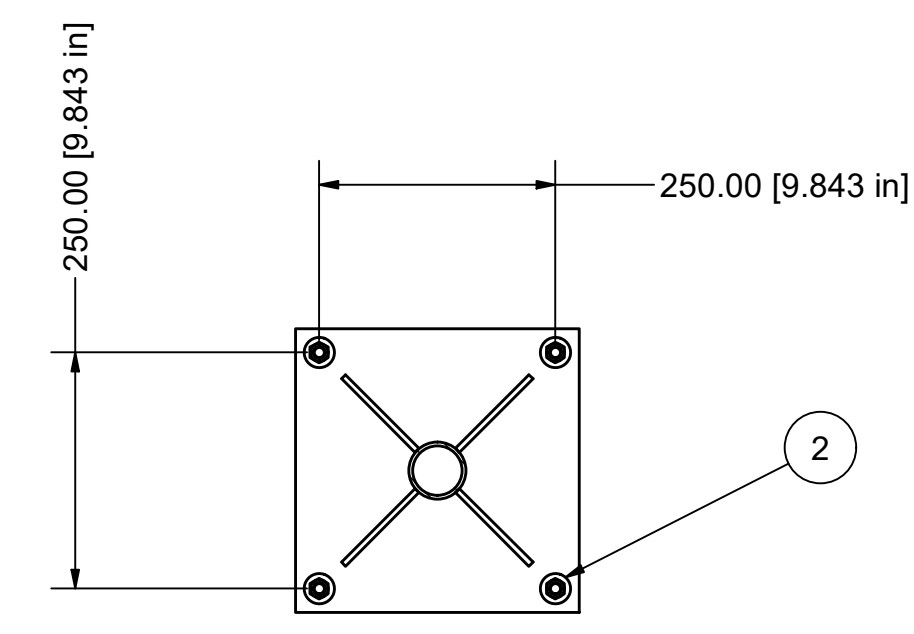
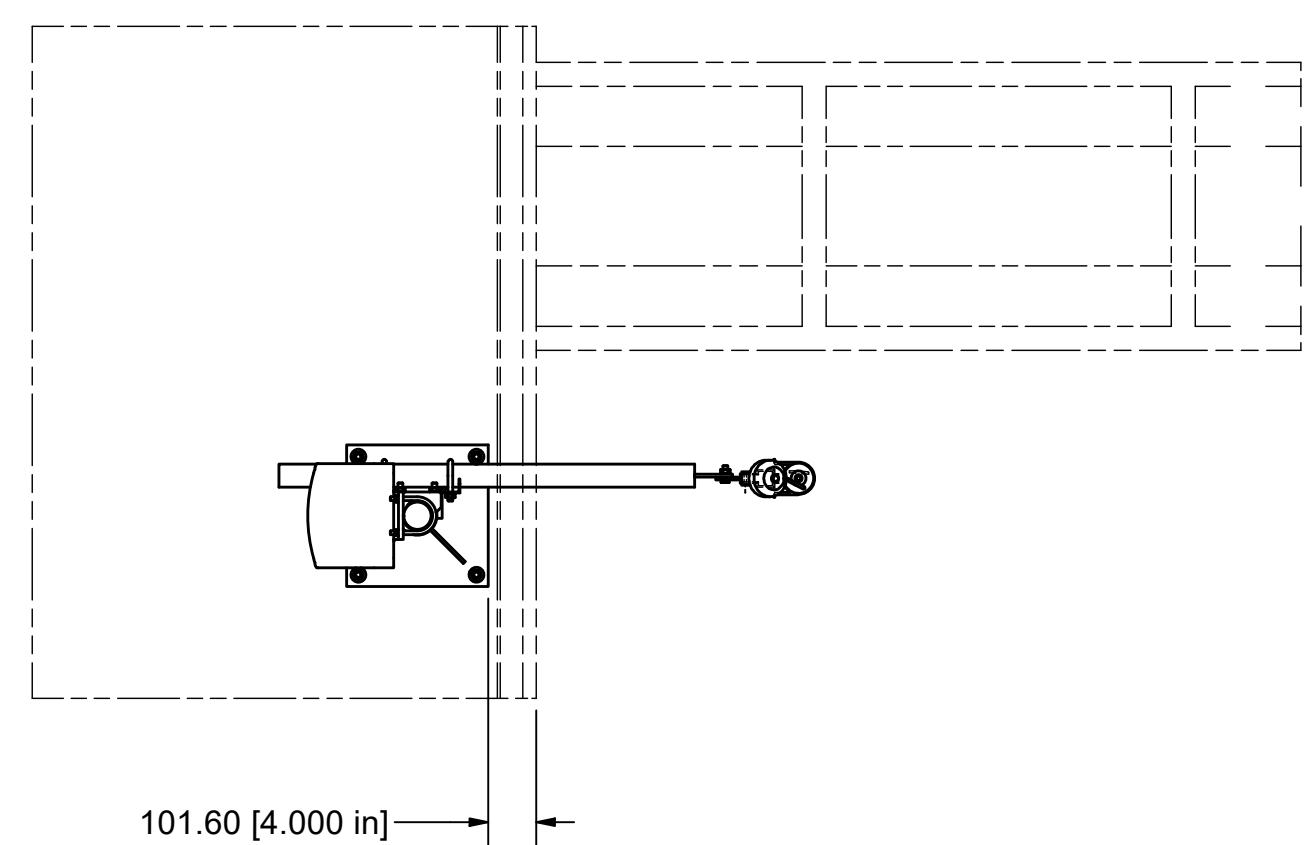
**CONFIDENTIAL**



NOT FOR PRELIMINARY CONSTRUCTION

JOB NAME: NAPANEE WPCP UPGRADES				AQUA-AEROBIC SYSTEMS, INC. <small>A Molecular Company</small>	
JOB LOCATION: NAPANEE, ONTARIO, CANADA				UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES	
DO NOT SCALE DRAWING				FRACTIONAL DIMENSIONS ±0.1/16 ALL TWO PLACE DECIMALS ±0.010 ALL THREE PLACE DECIMALS ±0.005 ALL ANGLES ±0.1°	
MATERIAL:				ANSI	
SIMILAR TO:				TYPE: AGS	
DRAWN BY: CJC				DATE: 2024-10-02	
REVISION DESCRIPTION				SHEET: 2 OF 2	
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SCALE: 1/4"				SIZE: D	

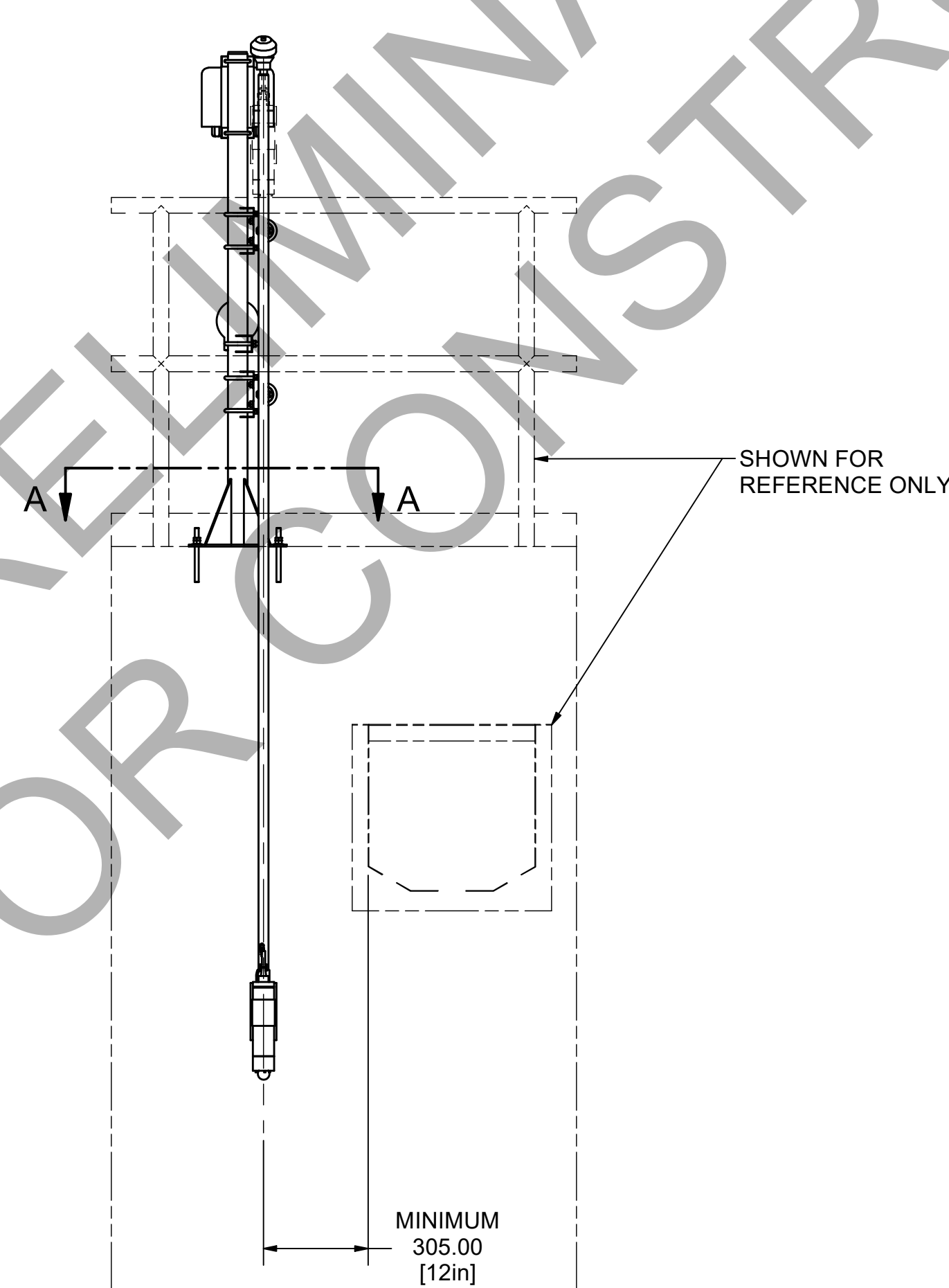
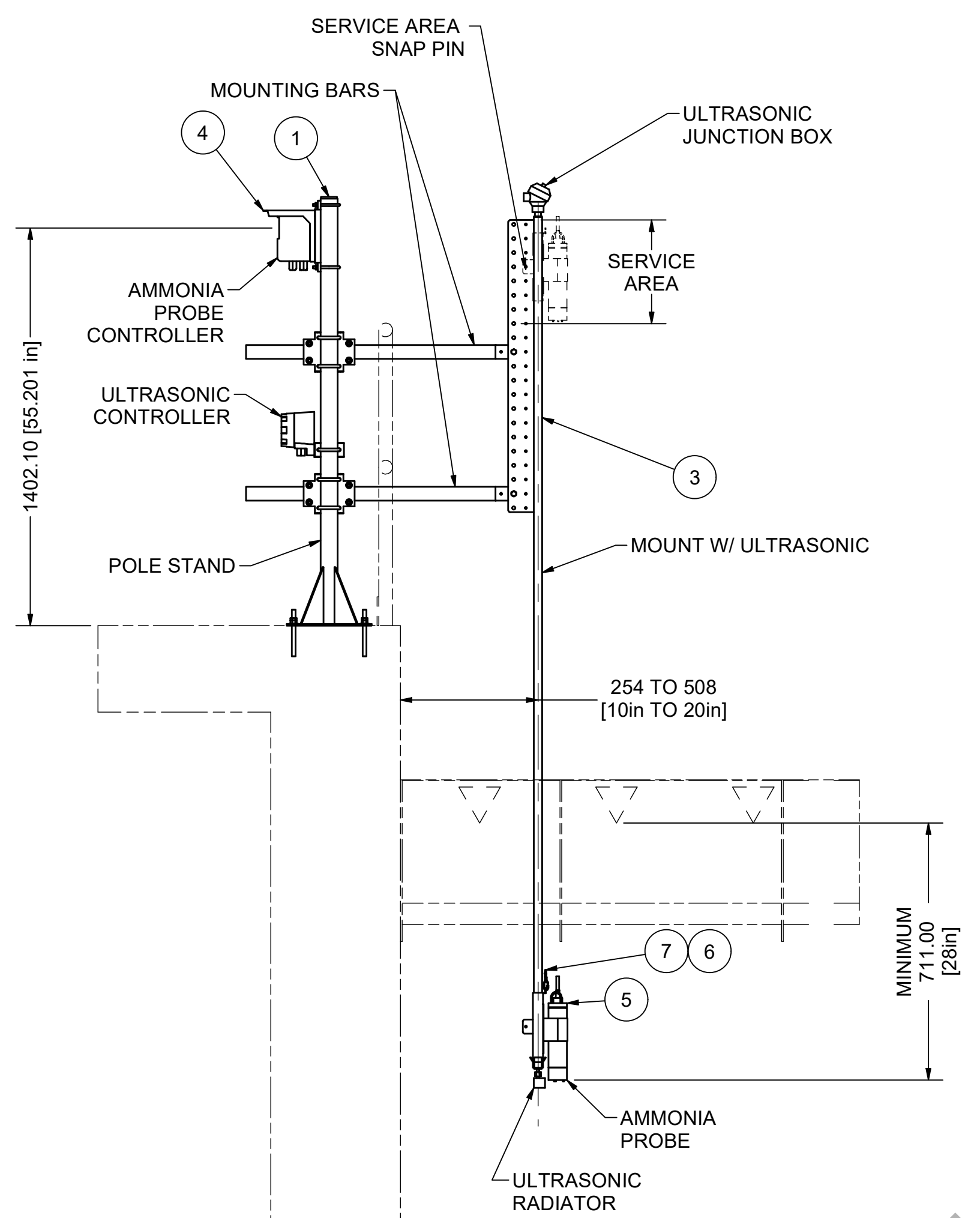
**CONFIDENTIAL**



SECTION A-A  
SCALE 1/8

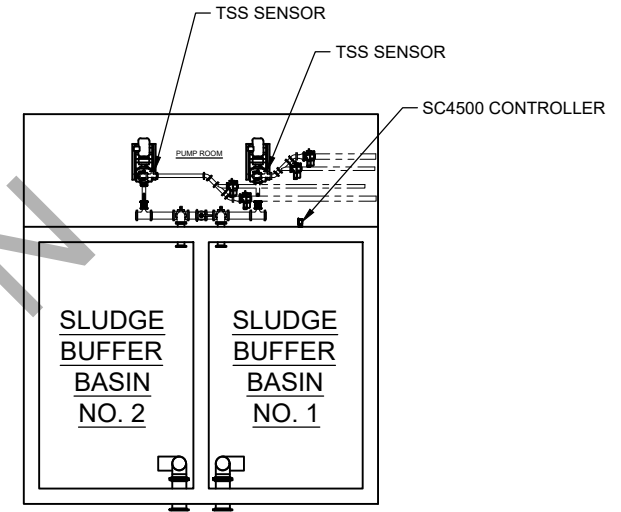
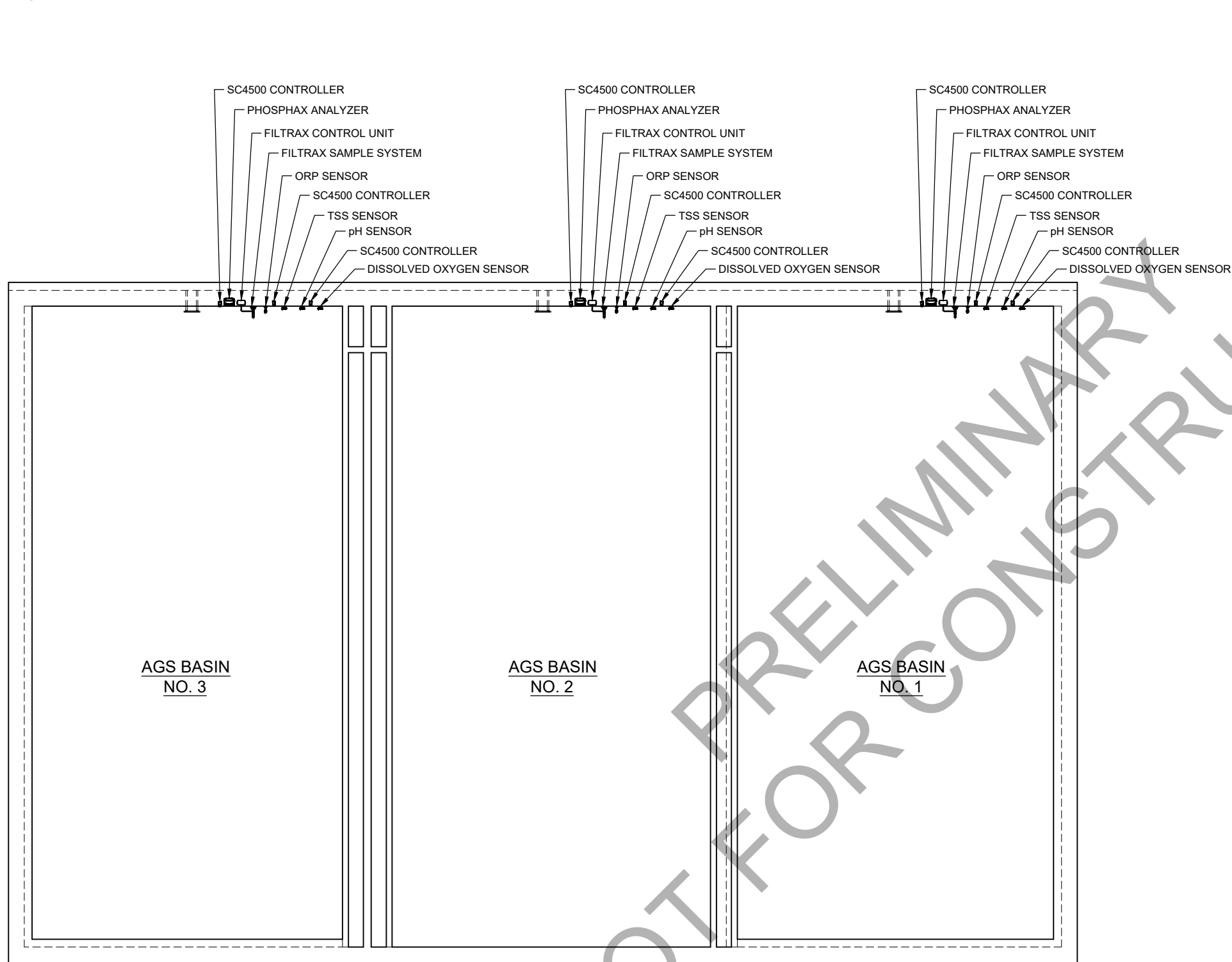
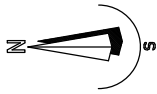
**NOTES:**

1. PLEASE REVIEW ALL INSTALLATION DRAWINGS AND INSTRUCTIONS IN THE OPERATION AND MAINTENANCE MANUAL PRIOR TO INSTALLING THE EQUIPMENT.
2. DO NOT CUT CABLES. COIL THEM FOR FUTURE ADJUSTMENTS AND MAINTENANCE. USE PROVIDE TY-WRAPS TO SECURE THEM.
3. AFTER COMPLETION OF INSTALLATION AND WIRING, PROBES ARE TO BE REMOVED AND RETURNED TO STORAGE UNTIL COMMISSIONING. FAILURE TO REMOVE PROBES TO STORAGE PER GUIDELINES IN SECTION 1 OF OPERATION AND MAINTENANCE MANUAL MAY RESULT IN PROBE DAMAGE AND VOID WARRANTY.
4. ANTI-SEIZE LUBRICANT IS REQUIRED ON ALL STAINLESS STEEL FASTENERS, UNLESS OTHERWISE SPECIFIED.
5. TORQUE FASTENERS PER ES-1057, UNLESS OTHERWISE SPECIFIED.
6. USE POLE STAND AS TEMPLATE FOR LOCATING ANCHORS. REFERENCE ANCHOR DRAWING FOR ADHESIVE ANCHOR INSTALLATION INSTRUCTIONS.
7. COMPONENT WEIGHTS:  
 - POLE STAND: 35 LB [16 kg]  
 - (2) BARS: 10 LB/EA [4.5 kg]  
 - MOUNT W/ ULTRASONIC: 30 LB [14 kg]  
 - CONTROLLER AND BRACKET: 12 LB [5 kg]  
 - SENSOR AND SLIDER ASSEMBLY: 10 LB [4.5 kg]
8. REFERENCE DOCUMENTATION IN SECTION 6 OF AASI O&M:  
 EP-50601-001 - CONTROLLER AND PROBE  
 EP-50601-002 - ULTRASONIC CLEANER



NOT FOR PRELIMINARY CONSTRUCTION

JOB NAME: NAPANEE WPCP UPGRADES				<b>AQUA-AEROBIC SYSTEMS, INC.</b> <small>A Metawater Company</small>	
JOB LOCATION: NAPANEE, ONTARIO, CANADA					
<small>DO NOT SCALE DRAWING</small>				<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES</small> <small>FRACTIONAL DIMENSIONS ±.010</small> <small>ALL TWO PLACE DECIMALS ±.005</small> <small>ALL THREE PLACE DECIMALS ±.002</small> <small>ALL ANGLES ±.12°</small>	
MATERIAL:				ANSI	
SIMILAR TO: M-NEREDA-5					
TYPE: NEREDA					
DRAWN BY: CJC		DATE: 2024-10-01			
REV: ERNECO		DATE: BY		WEIGHT: NOTES SHEET: 1 OF 1	
DRAWING NAME: AMMONIA SENSOR INSTL, AGS				DRAWING NUMBER: 9704419A30023	
				SCALE: 1/16 SIZE: D	



PROJECT INCLUDES INSTRUMENT SERVICE AGREEMENT PER 9704416A30403

AGS BASIN  
NO. 3

AGS BASIN  
NO. 2

AGS BASIN  
NO. 1

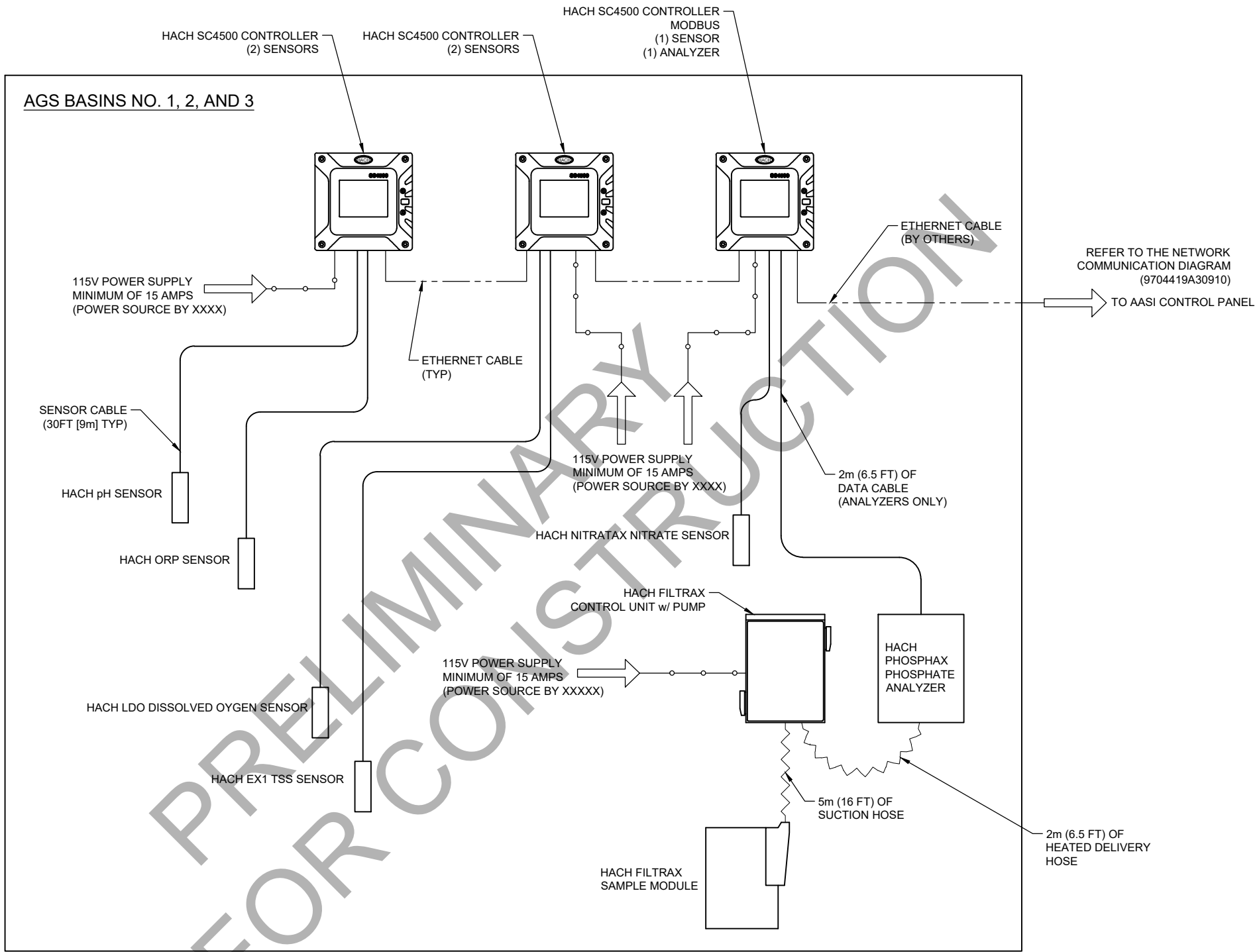
**NOTE: ENGINEER/CONTRACTOR WILL BE RESPONSIBLE FOR THE FINAL LOCATIONS OF ALL INSTRUMENTATION. ENSURE THAT ALL CABLES/HOSE ARE WITHIN RANGE OF THE PROVIDED EQUIPMENT.**

NOT FOR PRELIMINARY CONSTRUCTION

**CONFIDENTIAL**

JOB NAME: NAPANEE WPCP UPGRADES		AQUA-AEROBIC SYSTEMS, INC. <small>A WaterCare Company</small>	
JOB LOCATION: NAPANEE, ONTARIO, CANADA		UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES	
		DO NOT SCALE DRAWING	
		FRACTIONAL DIMENSIONS ±0.1/16 ALL TWO PLACE DECIMALS ±0.010 ALL THREE PLACE DECIMALS ±0.005 ALL ANGLES ±1/2°	
MATERIAL:		ANSI	
SIMILAR TO:			
TYPE:			
DRAWN BY: CJC		DATE: 2024-10-07	
REV: A		2024-10-07 CJC SUBMITTAL	
WEIGHT:		SHEET: 1 OF 3	
DRAWING NAME: HACH INSTRUMENTATION SYSTEM LAYOUT		DRAWING NUMBER: 9704419A30024	
SCALE: 1/125		SIZE: D	

AGS BASINS NO. 1, 2, AND 3



**ANALYZER NOTES:**

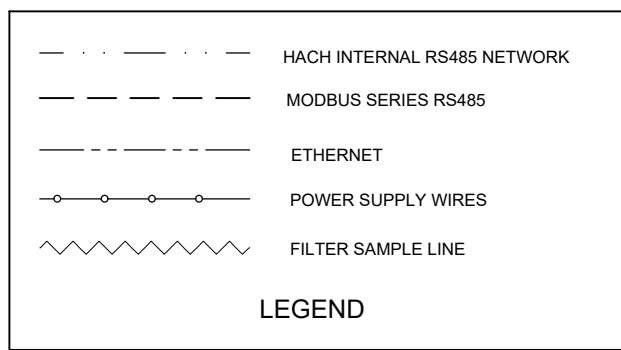
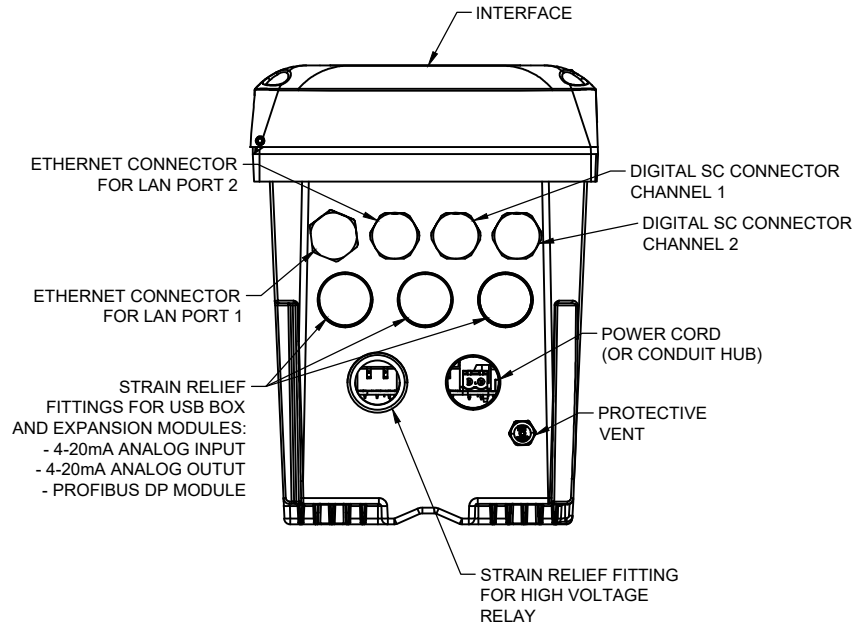
1. AMTAX AND PHOSPHAX ANALYZERS MUST BE MOUNTED WITHIN 6.5 FT (2m) DISTANCE OF THE SC4500 CONTROLLER BY THE INSTALLING CONTRACTOR.
2. THE DISTANCE LIMITATION OF THE HACH INTERNAL NETWORK IS 4000 FT [1219m]. THIS INCLUDES THE COMBINED DISTANCE ON SENSOR CABLES TO THE CONTROLLERS, THE CONTROLLER CONNECTIONS, AND THE DISPLAY MODULE TO THE CONTROLLER.

**CONTROLLER CONNECTIONS:**

1. ONE STRAIN RELIEF USED WITH MODBUS PROBE MODULE.
2. LOCATION FOR INTERNAL NETWORK CONNECTOR TO BE FIELD INSTALLED BY OTHERS.

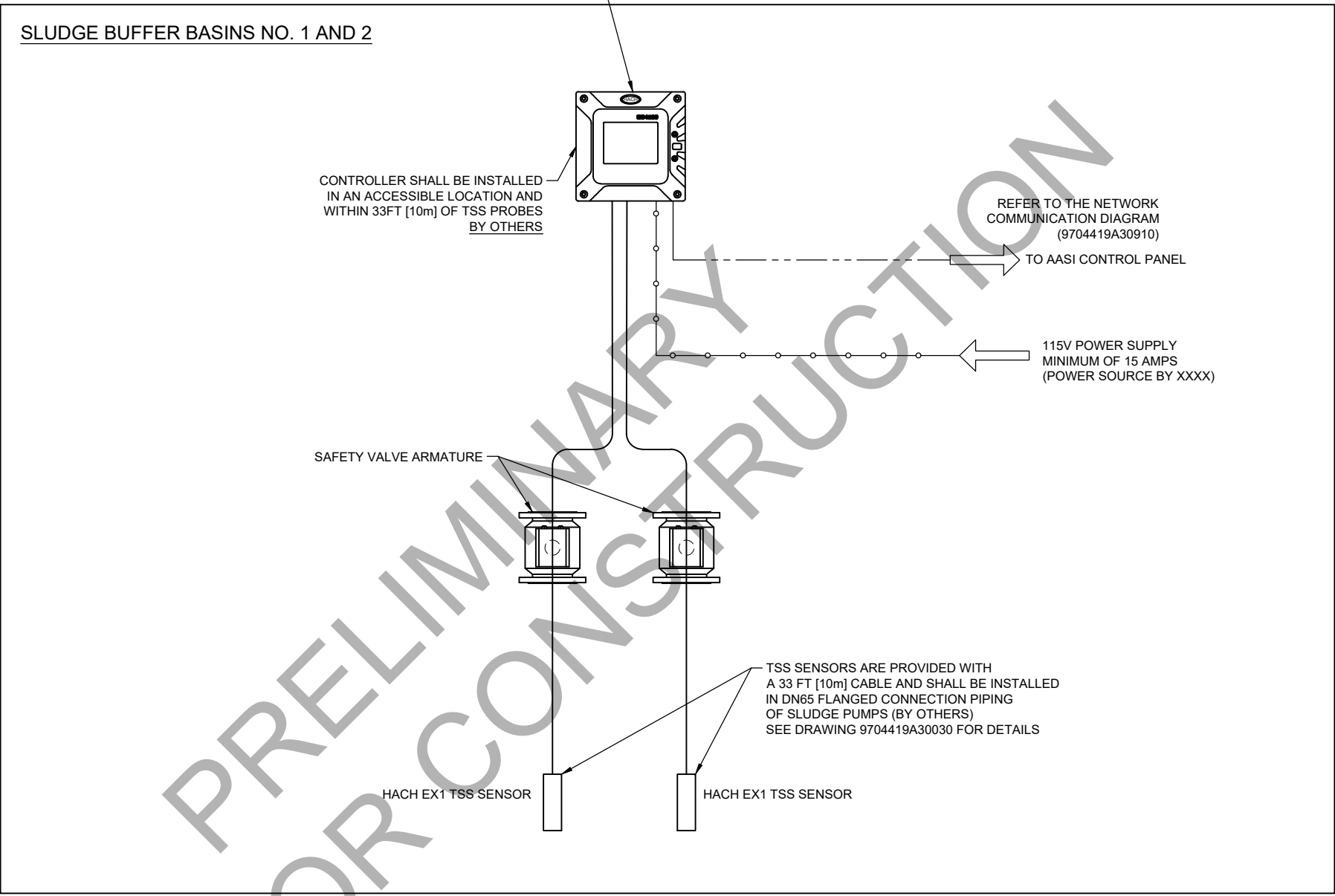
**CONTROLLER INSTALLATION NOTE:**

THE SENSOR CABLES ATTACH DIRECTLY TO THE CONTROLLER. THESE CABLES SHOULD NOT BE CUT, BUT COILED TOGETHER AND ATTACHED TO CONTROLLER OR HANDRAILING. A 115 VOLT, SINGLE PHASE POWER SOURCE IS REQUIRED AT THE CONTROLLER.



JOB NAME: NAPANEE WPCP UPGRADES				AQUA-AEROBIC SYSTEMS, INC.			
JOB LOCATION: NAPANEE, ONTARIO, CANADA				A Waterstar Company			
				DO NOT SCALE DRAWING			
				UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES			
				FRACTIONAL DIMENSIONS ±0.118			
				ALL TWO PLACE DECIMALS ±0.010			
				ALL THREE PLACE DECIMALS ±0.005			
				ALL ANGLES ±1.0°			
				ANSI			
				MATERIAL:			
				SIMILAR TO:			
				TYPE:			
A		2024-10-07		CJC		SUBMITTAL	
REV		ERN / ECO		DATE		BY	
DRAWING NAME: HACH INSTRUMENTATION SYSTEM LAYOUT				DRAWING NUMBER: 9704419A30024			
				SCALE: NTS			
				SHEET: 2 OF 3			
				DATE: 2024-10-07			

**CONFIDENTIAL**

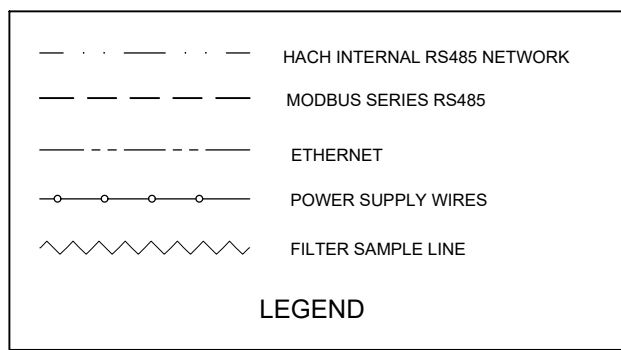
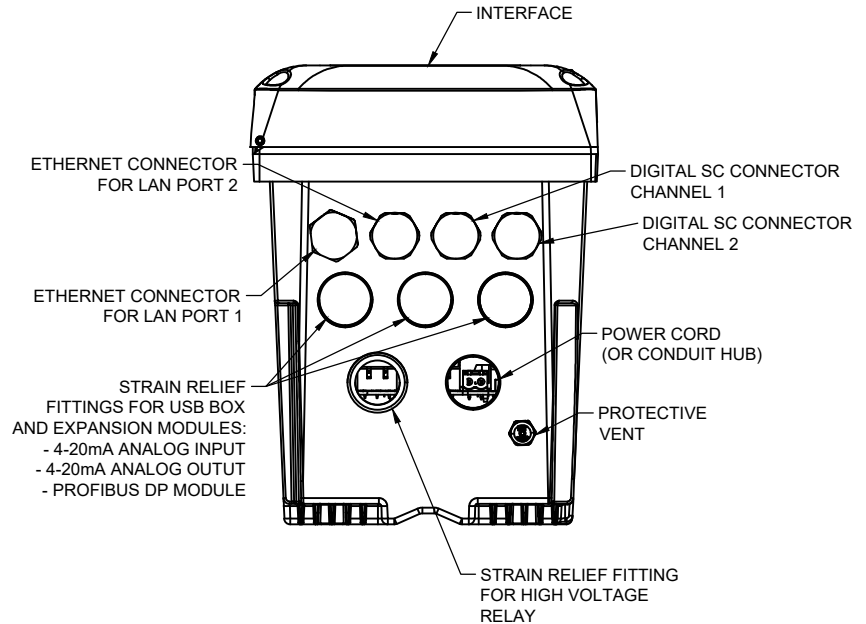


**CONTROLLER CONNECTIONS:**

1. ONE STRAIN RELIEF USED WITH MODBUS PROBE MODULE.
2. LOCATION FOR INTERNAL NETWORK CONNECTOR TO BE FIELD INSTALLED BY OTHERS.

**CONTROLLER INSTALLATION NOTE:**

THE SENSOR CABLES ATTACH DIRECTLY TO THE CONTROLLER. THESE CABLES SHOULD NOT BE CUT, BUT COILED TOGETHER AND ATTACHED TO CONTROLLER OR HANDRAILING. A 115 VOLT, SINGLE PHASE POWER SOURCE IS REQUIRED AT THE CONTROLLER.

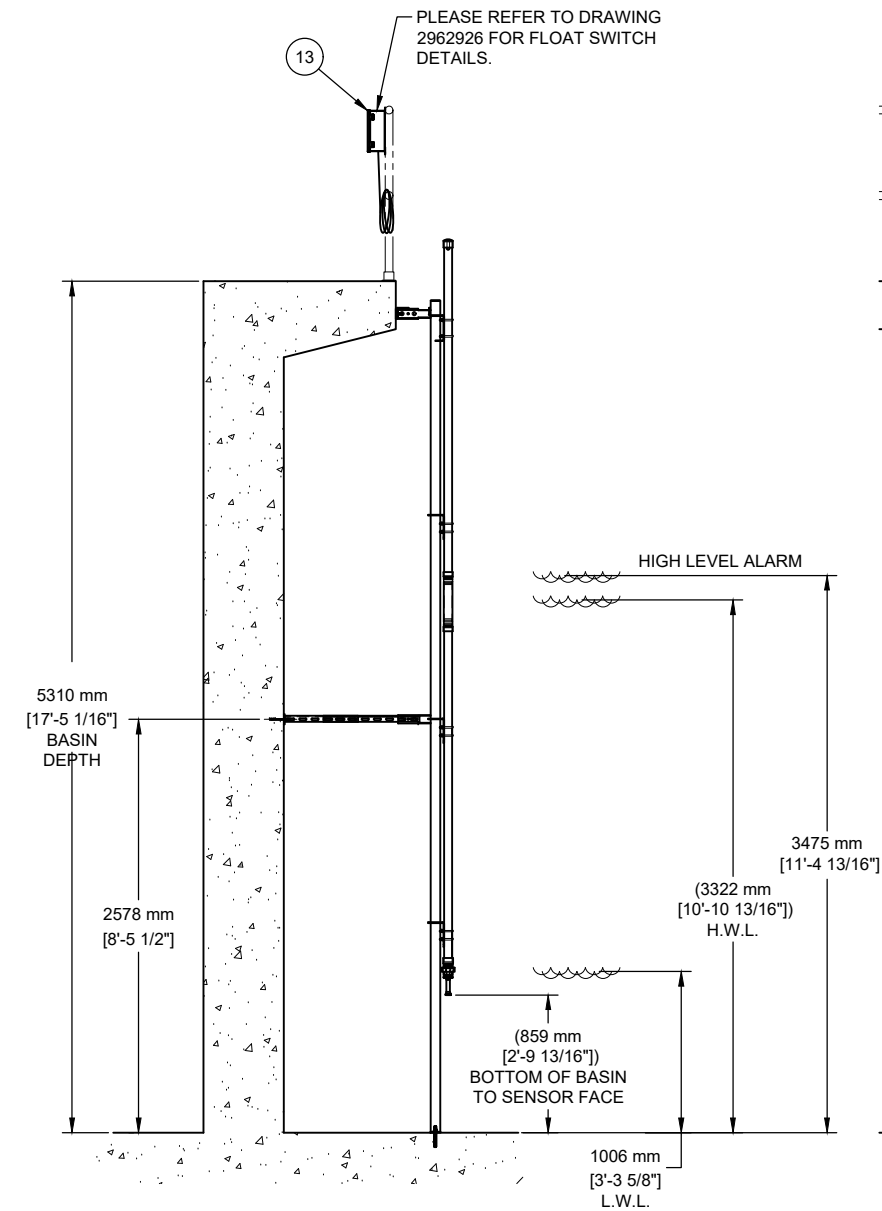
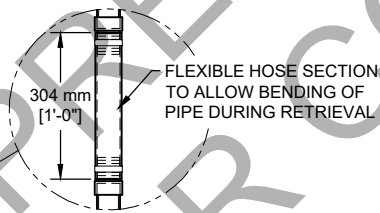
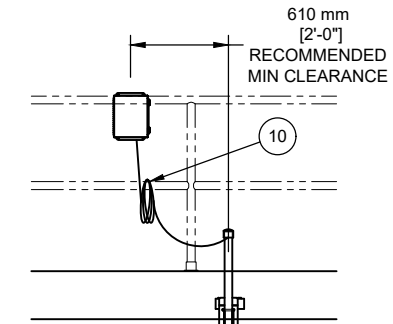
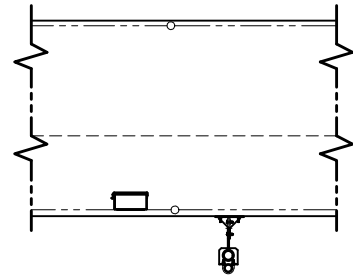


JOB NAME: NAPANEE WPCP UPGRADES		AQUA-AEROBIC SYSTEMS, INC.	
JOB LOCATION: NAPANEE, ONTARIO, CANADA		UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES	
DO NOT SCALE DRAWING		FRACTIONAL DIMENSIONS ±.010 ALL TWO PLACE DECIMALS ±.005 ALL THREE PLACE DECIMALS ±.002	
MATERIAL:		ANSI	
SIMILAR TO:		TYPE:	
DRAWN BY: CJC		DATE: 2024-10-07	
REV: A		2024-10-07 CJC SUBMITTAL	
DRAWING NAME: HACH INSTRUMENTATION SYSTEM LAYOUT		WEIGHT:	
DRAWING NUMBER: 9704419A30024		SHEET: 3 OF 3	
SCALE: NTS		SIZE: D	

**CONFIDENTIAL**

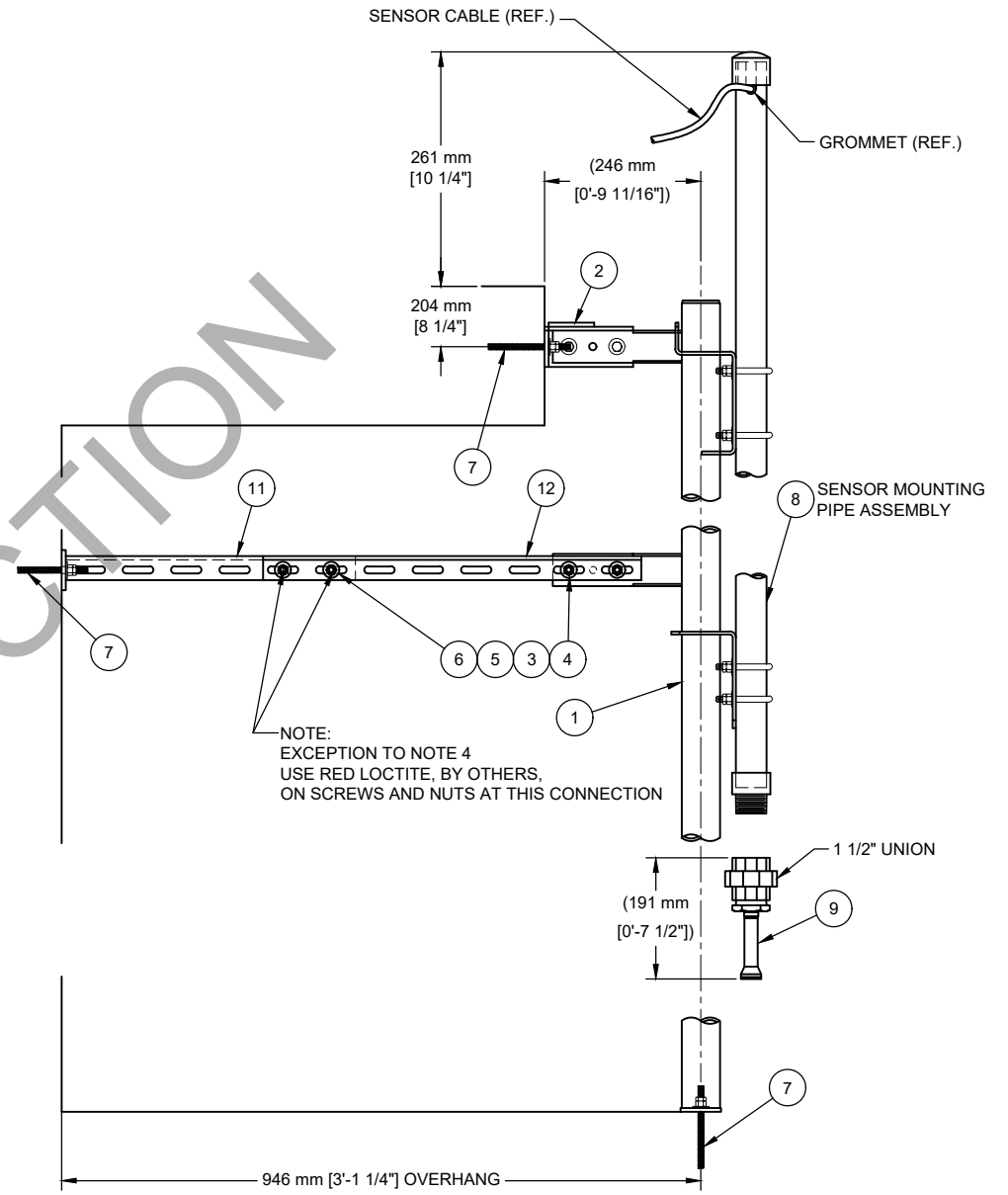
**SENSOR INSTALLATION NOTES:**

- UNLESS NOTED OTHERWISE, AFTER COMPLETION OF INSTALLATION AND WIRING, SENSORS ARE TO BE REMOVED AND RETURNED TO STORAGE UNTIL COMMISSIONING. FAILURE TO RETURN SENSORS TO STORAGE PER GUIDELINES IN OPERATION AND MAINTENANCE SECTION 1 MAY RESULT IN SENSOR DAMAGE AND VOID WARRANTY.
- MOUNT GUIDE RAIL ASSEMBLY TO BASIN BEFORE INSTALLING SENSOR TO THE MOUNTING PIPE ASSEMBLY. MOUNT THE GUIDE RAIL ASSEMBLY LEVEL AND PLUMB. REFER TO THE SYSTEM PLAN VIEW DRAWING FOR LOCATION OF THE SENSORS IN THE BASIN.
- USE THREAD SEALANT OR TAPE ON ALL PIPE THREADS.
- ANTI-SEIZE LUBRICANT IS REQUIRED ON ALL STAINLESS STEEL FASTENERS. UNLESS OTHERWISE NOTED.
- SENSOR CABLE MUST NOT BE CUT, BUT COILED TOGETHER AND ATTACHED TO THE BASIN HANDRAILING WITH THE TY-WRAPS PROVIDED.
- ASSEMBLE SENSOR TO THE MOUNTING PIPE ASSEMBLY. SOME SENSOR CABLES CONTAIN A VENT TUBE TO REFERENCE ATMOSPHERIC PRESSURE. DO NOT CRIMP OR DISTORT CABLE. LIMIT THE MINIMUM BEND RADIUS TO (2) INCHES. PROTECT EXPOSED CABLE FROM SOURCES OF ACCIDENTAL DAMAGE.
- WITH SENSOR ASSEMBLED TO MOUNTING PIPE, SLIDE THE ASSEMBLY OVER THE GUIDE RAIL. ATTACH SENSOR CABLE TO JUNCTION BOX OR CONTROLLER AS NECESSARY.



**SENSOR COMPONENT WEIGHTS:**

SENSOR GUIDE RAIL	50 LBS [23 kg]
SENSOR PIPE (PVC)	19 LBS [9 kg]
SENSOR ASSEMBLY (LEVEL)	3.6 LBS [2 kg]



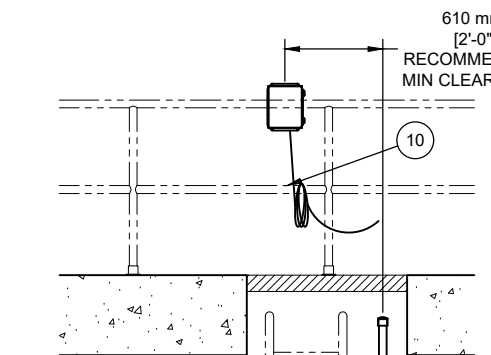
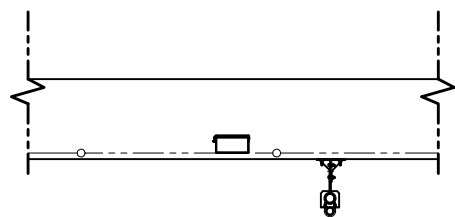
**SENSOR MOUNTING DETAIL**

JOB NAME: NAPANEE WPCP UPGRADES		AQUA-AEROBIC SYSTEMS, INC. <small>A Molecular Company</small>	
JOB LOCATION: NAPANEE, ONTARIO, CANADA		UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES	
MATERIAL:		DO NOT SCALE DRAWING	
SIMILAR TO: M-SENSOR-14		FRACTIONAL DIMENSIONS ±.010 ALL TWO PLACE DECIMALS ALL THREE PLACE DECIMALS ±.005 ALL ANGLES ±.1°	
TYPE:	DRAWN BY: CJC	DATE:	2024-10-02
REV: A	2024-10-07	BY: CJC	DATE: 2024-10-07
DRAWING NAME: LEVEL SENSOR INSTL, POST-EQ		WEIGHT:	SHEET: 1 OF 1
DRAWING NUMBER: 9704419A30025		SCALE:	1/24

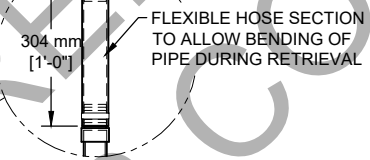
**CONFIDENTIAL**

**SENSOR INSTALLATION NOTES:**

1. UNLESS NOTED OTHERWISE, AFTER COMPLETION OF INSTALLATION AND WIRING, SENSORS ARE TO BE REMOVED AND RETURNED TO STORAGE UNTIL COMMISSIONING. FAILURE TO RETURN SENSORS TO STORAGE PER GUIDELINES IN OPERATION AND MAINTENANCE SECTION 1 MAY RESULT IN SENSOR DAMAGE AND VOID WARRANTY.
2. MOUNT GUIDE RAIL ASSEMBLY TO BASIN BEFORE INSTALLING SENSOR TO THE MOUNTING PIPE ASSEMBLY. MOUNT THE GUIDE RAIL ASSEMBLY LEVEL AND PLUMB. REFER TO THE SYSTEM PLAN VIEW DRAWING FOR LOCATION OF THE SENSORS IN THE BASIN.
3. USE THREAD SEALANT OR TAPE ON ALL PIPE THREADS.
4. ANTI-SEIZE LUBRICANT IS REQUIRED ON ALL STAINLESS STEEL FASTENERS. UNLESS OTHERWISE NOTED.
5. SENSOR CABLE MUST NOT BE CUT, BUT COILED TOGETHER AND ATTACHED TO THE BASIN HANDRAILING WITH THE TY-WRAPS PROVIDED.
6. ASSEMBLE SENSOR TO THE MOUNTING PIPE ASSEMBLY. SOME SENSOR CABLES CONTAIN A VENT TUBE TO REFERENCE ATMOSPHERIC PRESSURE. DO NOT CRIMP OR DISTORT CABLE. LIMIT THE MINIMUM BEND RADIUS TO (2) INCHES. PROTECT EXPOSED CABLE FROM SOURCES OF ACCIDENTAL DAMAGE.
7. WITH SENSOR ASSEMBLED TO MOUNTING PIPE, SLIDE THE ASSEMBLY OVER THE GUIDE RAIL. ATTACH SENSOR CABLE TO JUNCTION BOX OR CONTROLLER AS NECESSARY.

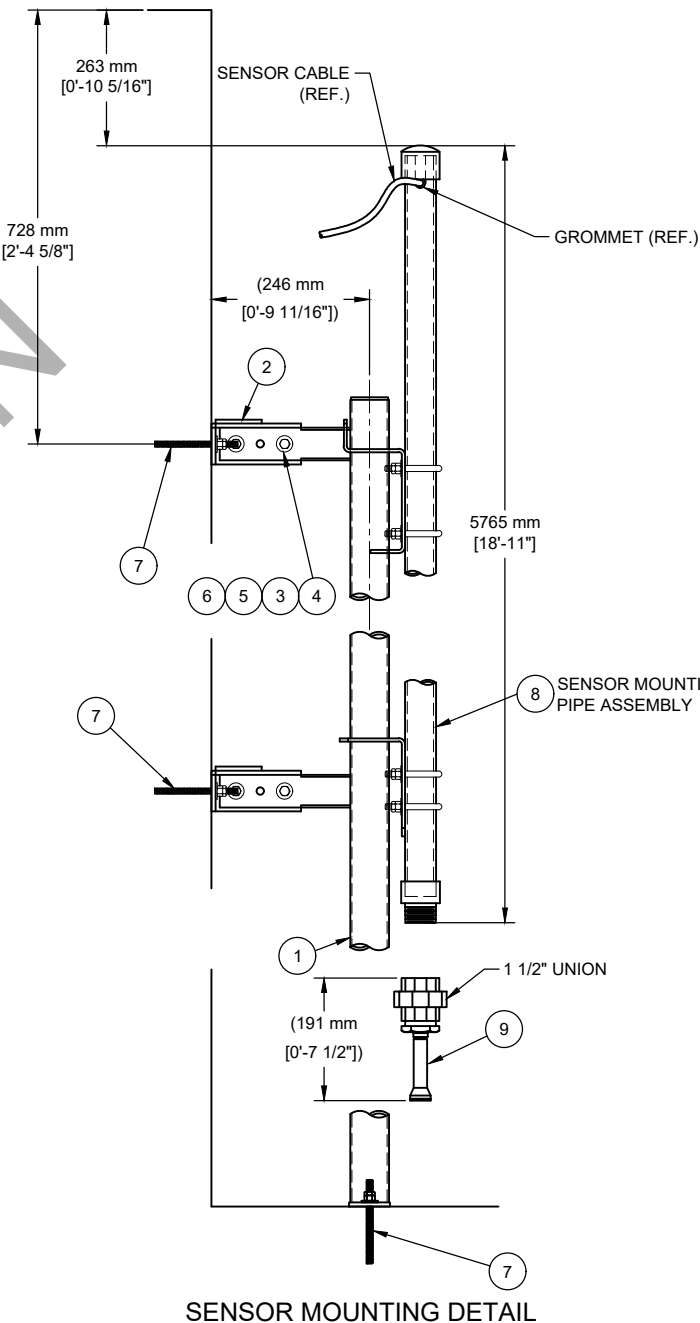


ACCESS LADDER TO BE SUPPLIED AND INSTALLED BY OTHERS

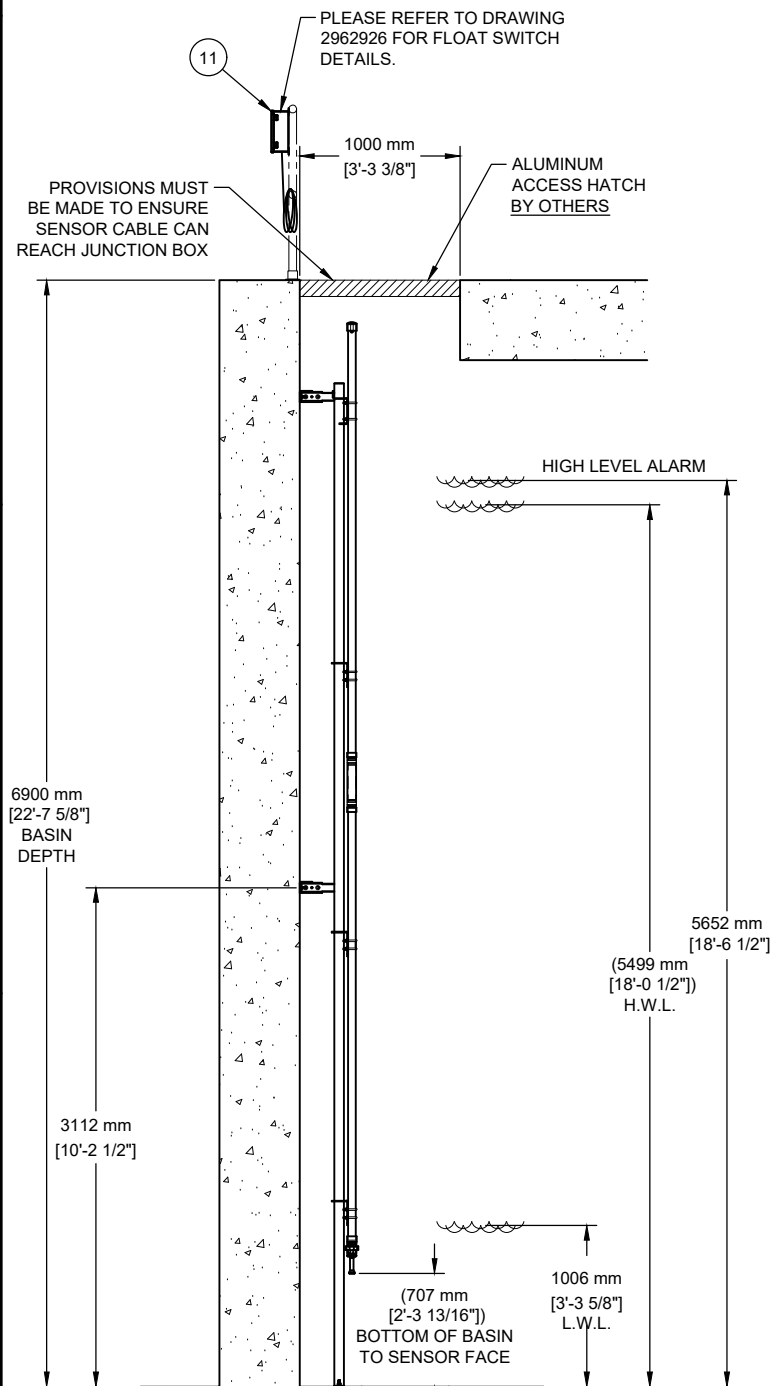


**SENSOR COMPONENT WEIGHTS:**

SENSOR GUIDE RAIL	59 LBS [27 kg]
SENSOR PIPE (PVC)	21 LBS [9.5 kg]
SENSOR ASSEMBLY (LEVEL)	3.6 LBS [2 kg]



SENSOR MOUNTING DETAIL



PROVISIONS MUST BE MADE TO ENSURE SENSOR CABLE CAN REACH JUNCTION BOX

HIGH LEVEL ALARM

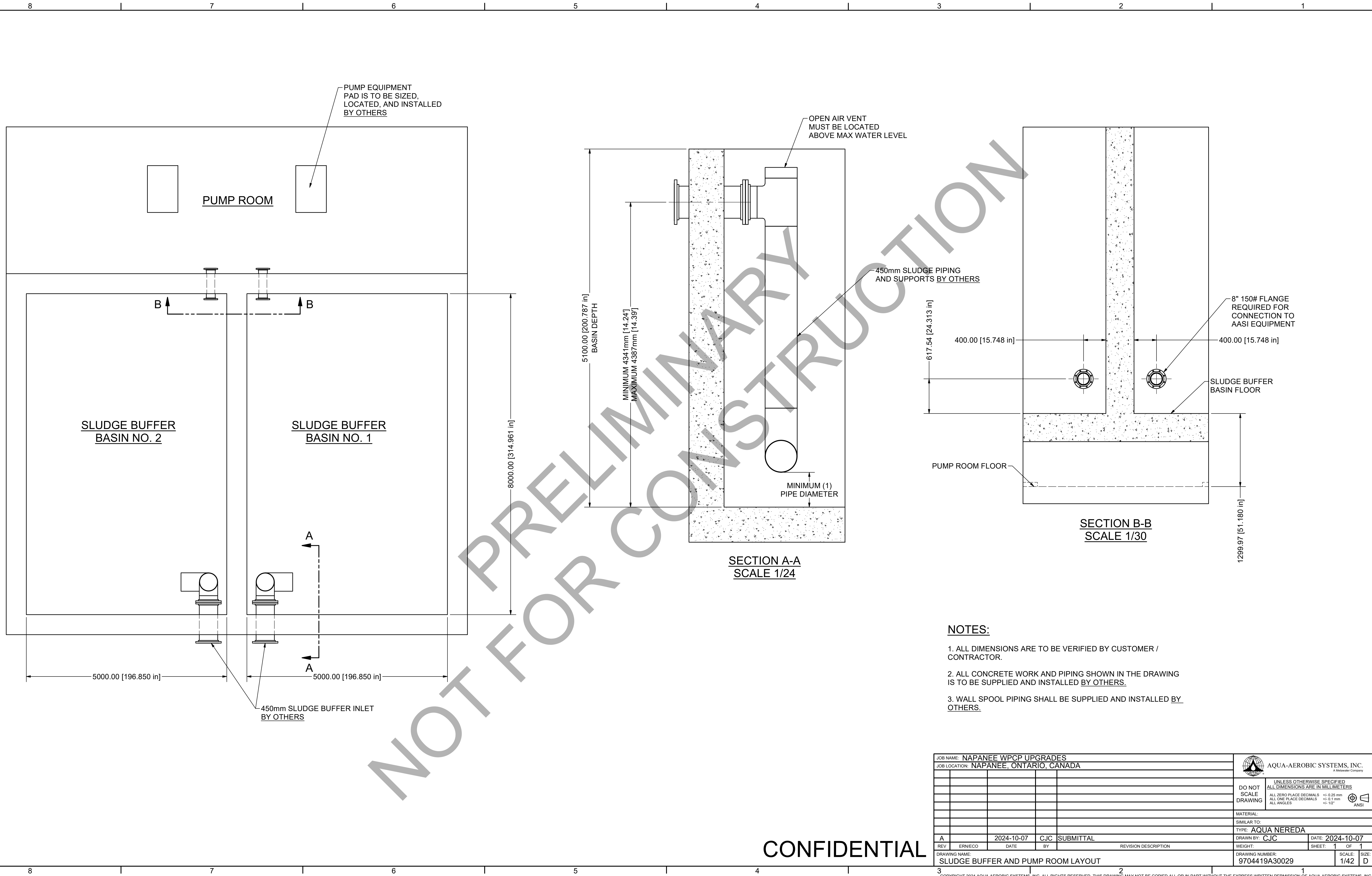
(707 mm [2'-3 13/16"]) BOTTOM OF BASIN TO SENSOR FACE

1006 mm [3'-3 5/8"] L.W.L.

**CONFIDENTIAL**

JOB NAME: NAPANEE WPCP UPGRADES		AQUA-AEROBIC SYSTEMS, INC.	
JOB LOCATION: NAPANEE, ONTARIO, CANADA		A Molecular Company	
DO NOT SCALE DRAWING		UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES	
MATERIAL:		FRACTIONAL DIMENSIONS ±.010	
SIMILAR TO: M-SENSOR-14		ALL TWO PLACE DECIMALS ±.005	
TYPE:		ALL THREE PLACE DECIMALS ±.002	
DRAWN BY: CJC		DATE: 2024-10-03	
REVISION: A		DATE: 2024-10-07	
BY: CJC		SUBMITTAL	
DRAWING NUMBER: 9704419A30027		SCALE: 1/24	
DRAWING NAME: LEVEL SENSOR INSTL, INFLUENT BUFFER		SHEET: 1 OF 1	





PUMP EQUIPMENT PAD IS TO BE SIZED, LOCATED, AND INSTALLED BY OTHERS

OPEN AIR VENT MUST BE LOCATED ABOVE MAX WATER LEVEL

450mm SLUDGE PIPING AND SUPPORTS BY OTHERS

8" 150# FLANGE REQUIRED FOR CONNECTION TO AASI EQUIPMENT

SLUDGE BUFFER BASIN FLOOR

PUMP ROOM FLOOR

SECTION A-A  
SCALE 1/24

SECTION B-B  
SCALE 1/30

**NOTES:**

1. ALL DIMENSIONS ARE TO BE VERIFIED BY CUSTOMER / CONTRACTOR.
2. ALL CONCRETE WORK AND PIPING SHOWN IN THE DRAWING IS TO BE SUPPLIED AND INSTALLED BY OTHERS.
3. WALL SPOOL PIPING SHALL BE SUPPLIED AND INSTALLED BY OTHERS.

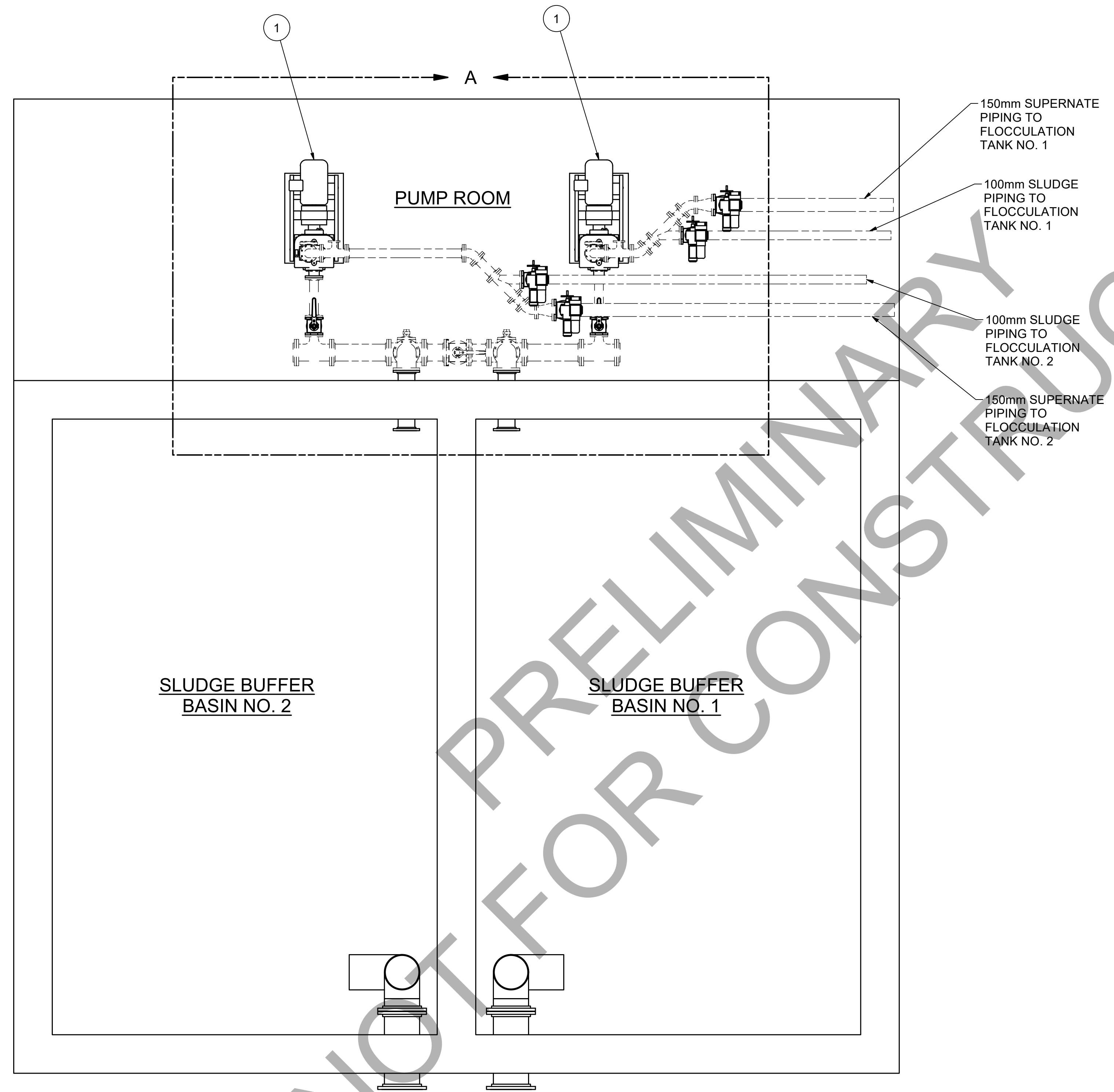
NOT FOR PRELIMINARY CONSTRUCTION

**CONFIDENTIAL**

JOB NAME: NAPANEE WPCP UPGRADES				AQUA-AEROBIC SYSTEMS, INC. <small>A Metawater Company</small>			
JOB LOCATION: NAPANEE, ONTARIO, CANADA				UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN MILLIMETERS			
				DO NOT SCALE DRAWING			
				ALL ZERO PLACE DECIMALS +/- 0.25 mm ALL ONE PLACE DECIMALS +/- 0.1 mm ALL ANGLES +/- 1/2° ANSI			
MATERIAL:							
SIMILAR TO:							
TYPE: AQUA NEREDA				DRAWN BY: CJC DATE: 2024-10-07			
REV: ERNECO DATE: 2024-10-07 BY: CJC SUBMITTAL				WEIGHT: SHEET: 1 OF 1			
DRAWING NAME: SLUDGE BUFFER AND PUMP ROOM LAYOUT				DRAWING NUMBER: 9704419A30029 SCALE: 1/42 SIZE: D			

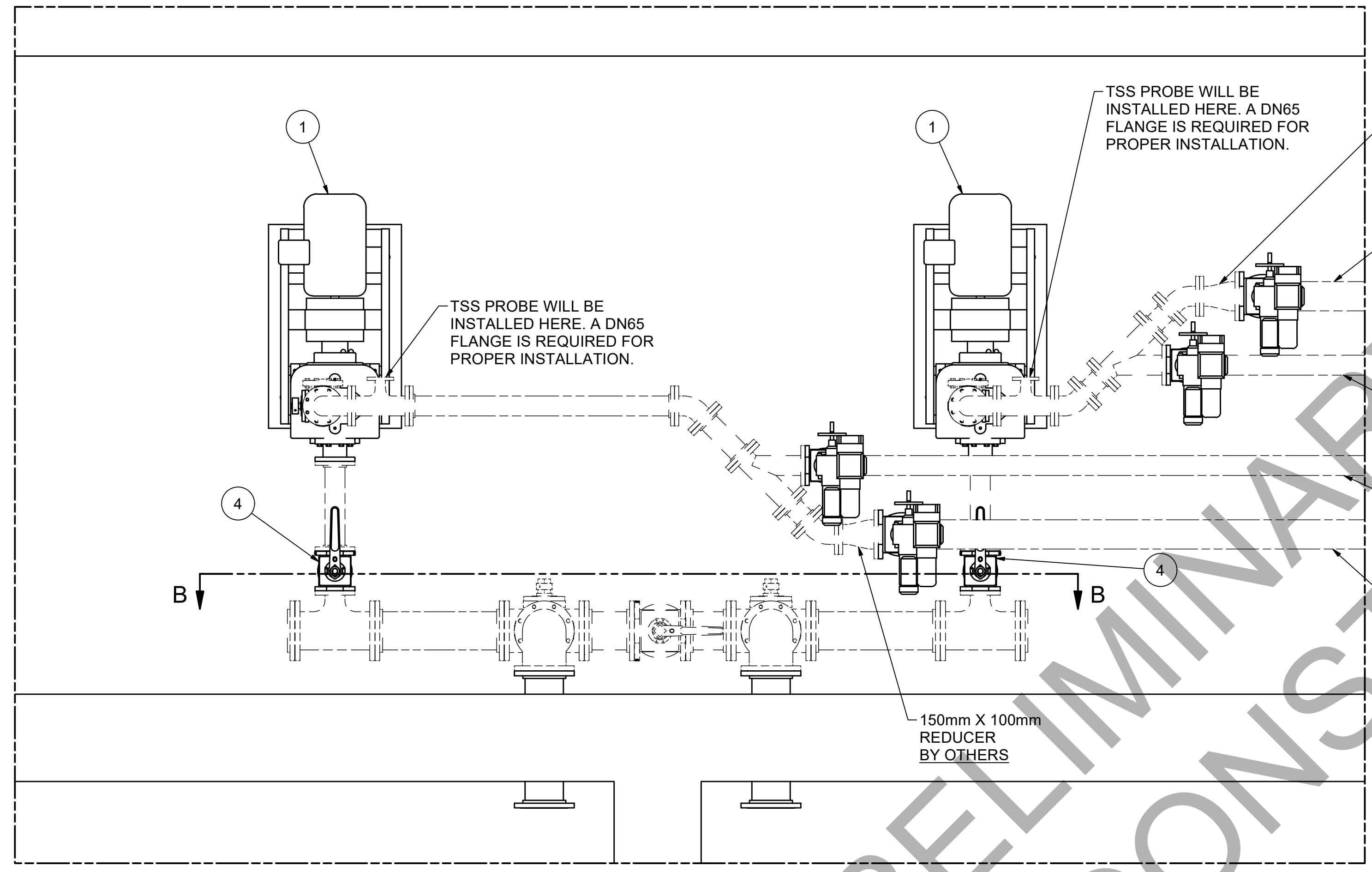
**GENERAL INSTALLATION NOTES:**

1. PLEASE REVIEW ALL INDIVIDUAL INSTALLATION DRAWINGS FOR ACTUAL DETAILS. REFER TO ASSEMBLY INSTRUCTIONS IN THE OPERATION AND MAINTENANCE MANUAL PRIOR TO INSTALLING THE EQUIPMENT.
2. IT IS RECOMMENDED THAT ALL THREADED FASTENERS MUST BE SECURED WITH A TWO (2) FULL NUTS.
3. ANTI-SEIZE LUBRICANT IS REQUIRED ON ALL STAINLESS STEEL FASTENERS UNLESS OTHERWISE SPECIFIED.
4. ALL PIPING, GASKETS, HARDWARE, AND PIPE SUPPORTS BEYOND AQUA-AEROBIC SYSTEMS' TERMINATION FLANGE HAVE BEEN SHOWN FOR REFERENCE ONLY AND ARE TO BE SUPPLIED AND INSTALLED BY OTHERS.
5. ALL WALKWAYS / PLATFORMS HAVE BEEN SHOWN FOR REFERENCE ONLY AND ARE TO BE SUPPLIED AND INSTALLED BY OTHERS.
6. OVERFLOWS ARE RECOMMENDED WITHIN ALL BASINS.
7. TORQUE ALL FASTENERS PER ES-1057, UNLESS OTHERWISE SPECIFIED.

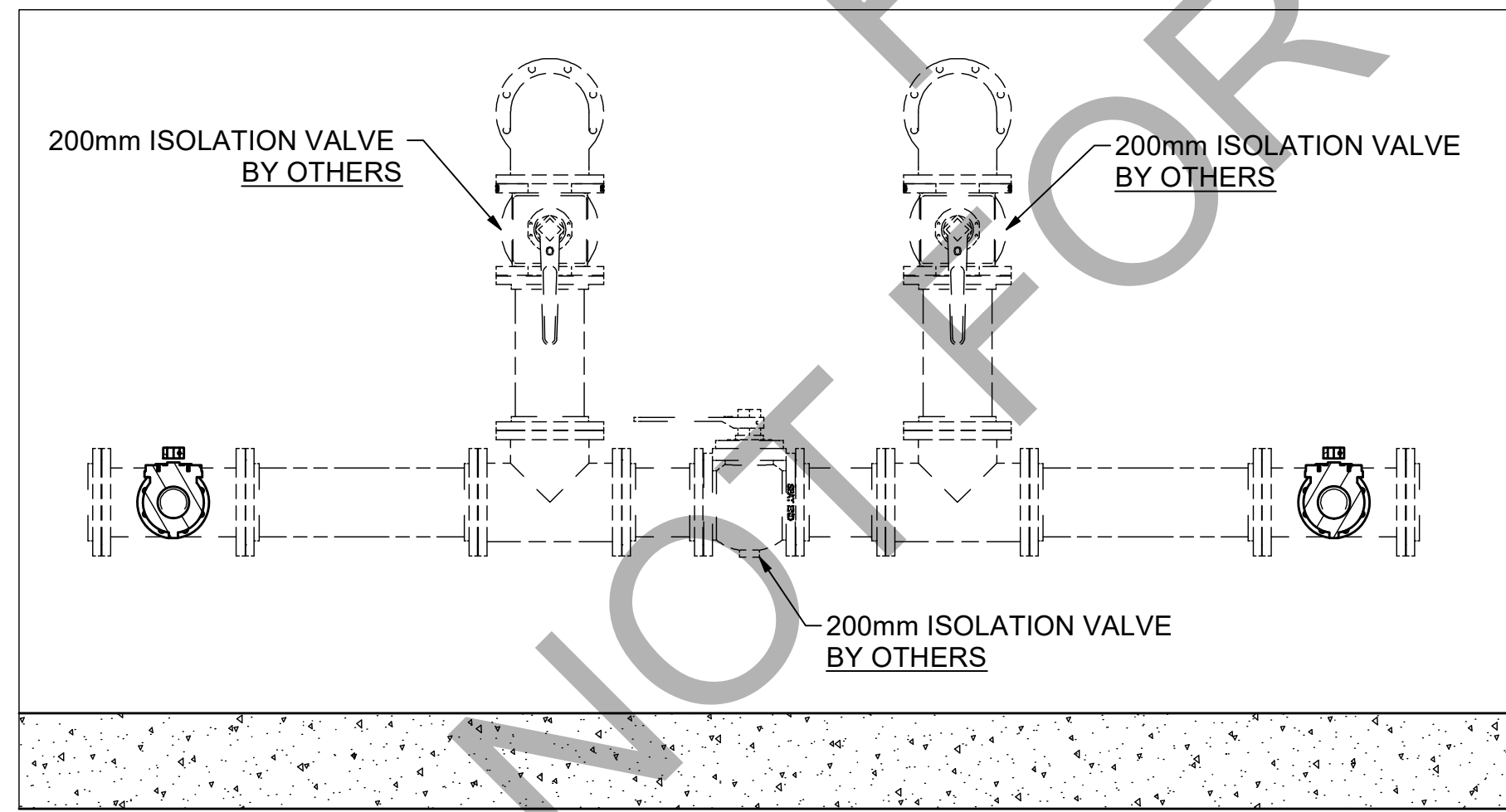


NOT FOR PRELIMINARY CONSTRUCTION

JOB NAME: NAPANEE WPCP UPGRADES				<b>AQUA-AEROBIC SYSTEMS, INC.</b> <small>A Metawater Company</small>	
JOB LOCATION: NAPANEE, ONTARIO, CANADA					
<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN MILLIMETERS</small>				<small>ALL ZERO PLACE DECIMALS +/- 0.25 mm ALL ONE PLACE DECIMALS +/- 0.1 mm ALL ANGLES +/- 1/2°</small>	
DO NOT SCALE DRAWING					
MATERIAL:					
SIMILAR TO:					
TYPE:					
A	2024-10-07	CJC	SUBMITTAL	DRAWN BY: CJC	DATE: 2024-10-08
REV	ERNECO	DATE	BY	WEIGHT: TABLE	SHEET: 1 OF 2
DRAWING NAME: PUMP INSTL, SLUDGE BUFFER				DRAWING NUMBER: 9704419A30030	
				SCALE: 1/36	
				SIZE: D	



DETAIL A  
SCALE 1/20



SECTION B-B  
SCALE 1/20

**PUMP/VALVE INSTALLATION NOTES:**

- AFTER ELECTRICAL HOOKUP, THE FOLLOWING IS A PROCEDURE FOR THE PUMP SPIDER COUPLING INSTALLATION:
  - REMOVE COUPLING GUARD.
  - CONFIRM COUPLING HAS BEEN SEPARATED.
  - CHECK THE MOTOR FOR PROPER ROTATION.
  - CONFIRM ALIGNMENT. INSTRUCTIONS CAN BE FOUND IN SECTION 6 OF THE O&M MANUAL.
  - INSTALL THE SPIDER AND CONNECT THE COUPLING.
  - RE-INSTALL THE COUPLING GUARD.
  - REMOVE TAG.
- PUMP SUCTION AND DISCHARGE PIPING MUST HAVE A FLANGED OR UNION CONNECTION BY OTHERS TO FACILITATE PUMP REMOVAL FOR SERVICE.
- A 12FT [3.6m] CORDSET IS PROVIDED FOR EACH ACTUATOR. THE CORD IS CONNECTED TO THE ACTUATOR HOUSING TERMINAL WITH A COUPLING NUT.
- A JUNCTION BOX FOR WIRING OF THE CORDSET IS TO BE SUPPLIED BY OTHERS. USE SEALING TYPE CORD GRIPS LOCATED ALONG THE SIDE OR BOTTOM OF THE JUNCTION BOX, NOT THROUGH THE TOP. WHERE LAYOUT PERMITS, MULTIPLE CONNECTIONS PER JUNCTION BOX MAY BE USED.
- ALL PIPING, PIPE SUPPORTS, GASKETS, AND FASTENERS ARE SUPPLIED BY OTHERS. PIPING IS SHOWN FOR REFERENCE ONLY. DESIGN MATERIAL AND ASSEMBLY TO BE THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR.
- USE THE PUMP BASE AS A TEMPLATE TO MARK AND DRILL HOLES FOR ANCHORS. SEE ANCHOR DRAWING FOR INSTALLATION INSTRUCTIONS.

**PUMP CAPABILITIES/INFORMATION**

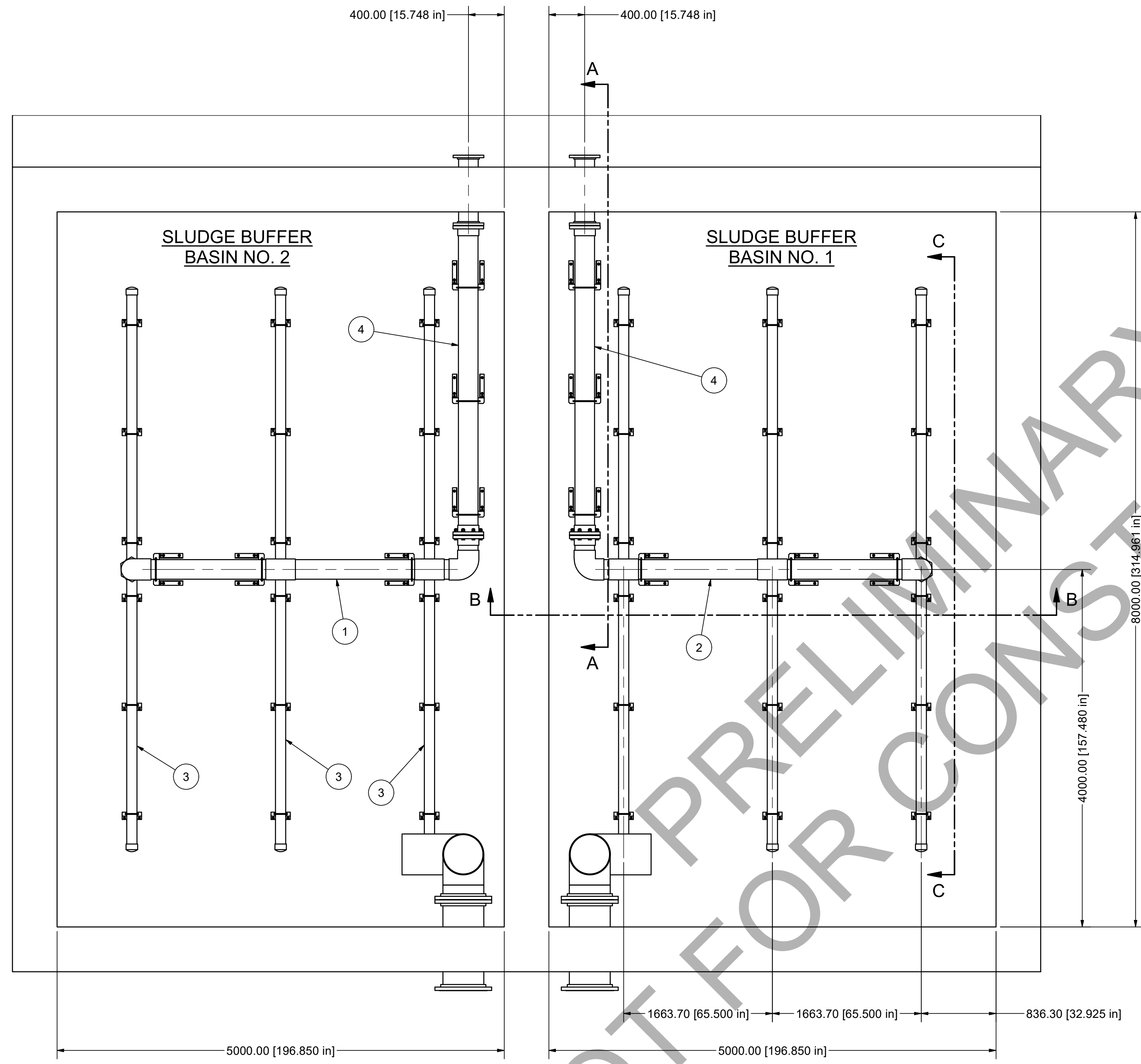
- PUMP CONNECTION: 4" ASA SPOOL FLANGE
  - MOTOR SIZE: 7.5HP
  - VOLTAGE: 575V / 3ph / 60Hz
- SLUDGE BUFFER (SLUDGE FLOW)**  
 (2) SHARED PUMPS IN SERVICE  
 - FLOW: 23 m<sup>3</sup>/hr (101 GPM)  
 - TDH: 18.8m [62 FT]
- SLUDGE BUFFER (SUPERNATANT FLOW)**  
 (2) SHARED PUMPS IN SERVICE  
 - FLOW: 92 m<sup>3</sup>/hr (405 GPM)  
 - TDH: 11.2m [68 FT]

JOB NAME: NAPANEE WPCP UPGRADES				 Aqua-Aerobic Systems, Inc. A Metawater Company	
JOB LOCATION: NAPANEE, ONTARIO, CANADA					
DO NOT SCALE DRAWING				UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN MILLIMETERS	
MATERIAL:				ALL ZERO PLACE DECIMALS +/- 0.25 mm	
SIMILAR TO:				ALL ONE PLACE DECIMALS +/- 0.1 mm	
TYPE:				ALL ANGLES +/- 1/2°	
A 2024-10-07 CJC SUBMITTAL				DRAWN BY: CJC DATE: 2024-10-08	
REV ERNECO DATE BY REVISION DESCRIPTION				WEIGHT: TABLE SHEET: 2 OF 2	
DRAWING NAME: PUMP INSTL, SLUDGE BUFFER				DRAWING NUMBER: 9704419A30030	
				SCALE: 1/20 SIZE: D	

DESCRIPTION	WEIGHT
SLUDGE MANIFOLD ASSY, 8", NO. 1 AND 2	52 kg [115 LB] (EA)
SLUDGE MANIFOLD ASSY, 8", NO. 3	32 kg [71 LB]
SLUDGE LATERAL ASSY, 4"	21 kg [47 LB] (EA)

**GENERAL INSTALLATION NOTES:**

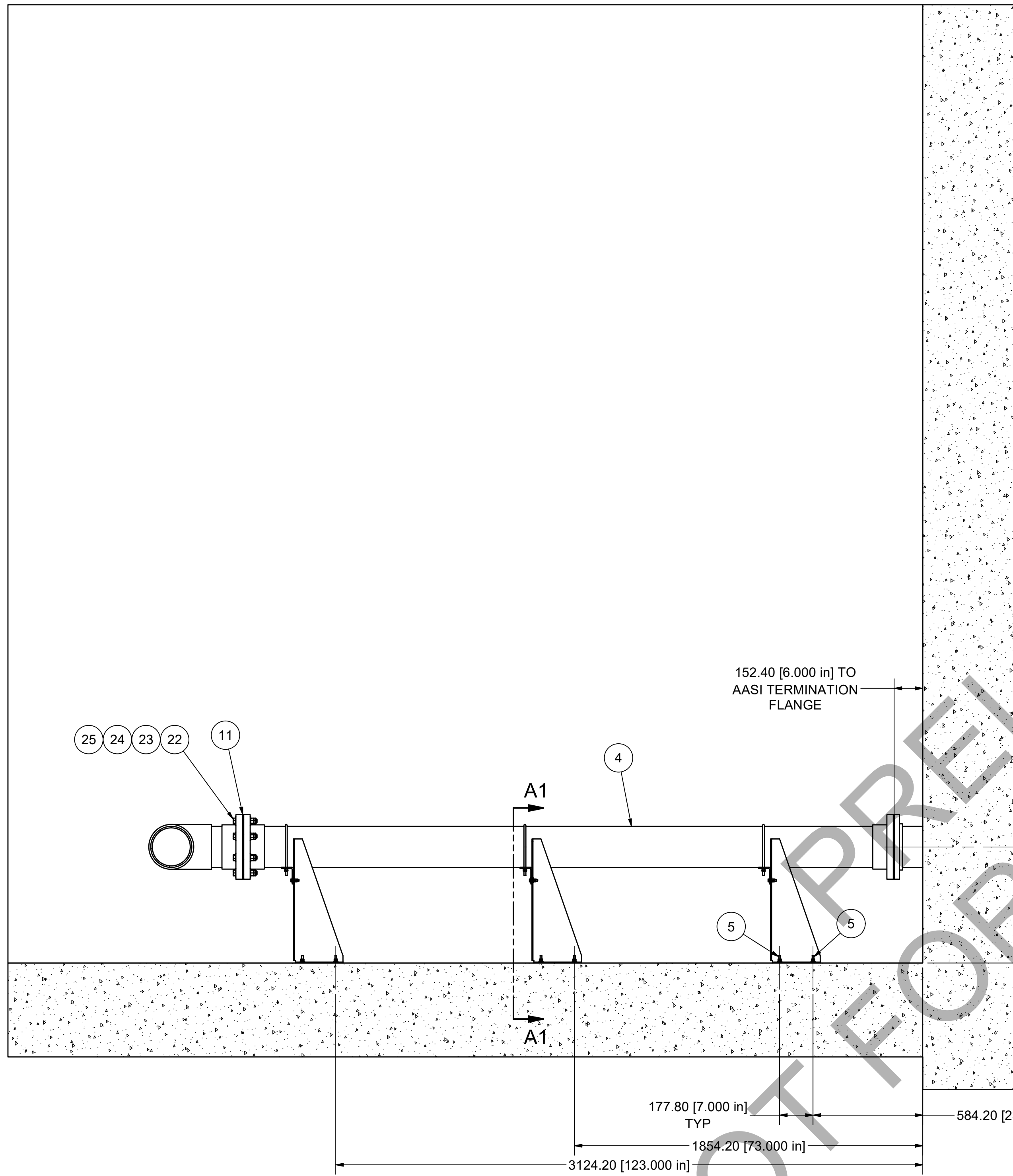
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- IT IS RECOMMENDED THAT ALL THREADED FASTENERS MUST BE SECURED WITH A TWO (2) FULL NUTS.
- ANTI-SEIZE LUBRICANT IS REQUIRED ON ALL STAINLESS STEEL FASTENERS UNLESS OTHERWISE SPECIFIED.
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- ALL WALKWAYS / PLATFORMS HAVE BEEN SHOWN FOR REFERENCE ONLY AND ARE TO BE SUPPLIED AND INSTALLED BY OTHERS.
- OVERFLOWS ARE RECOMMENDED WITHIN ALL BASINS.
- TORQUE ALL FASTENERS PER ES-1057, UNLESS OTHERWISE SPECIFIED.



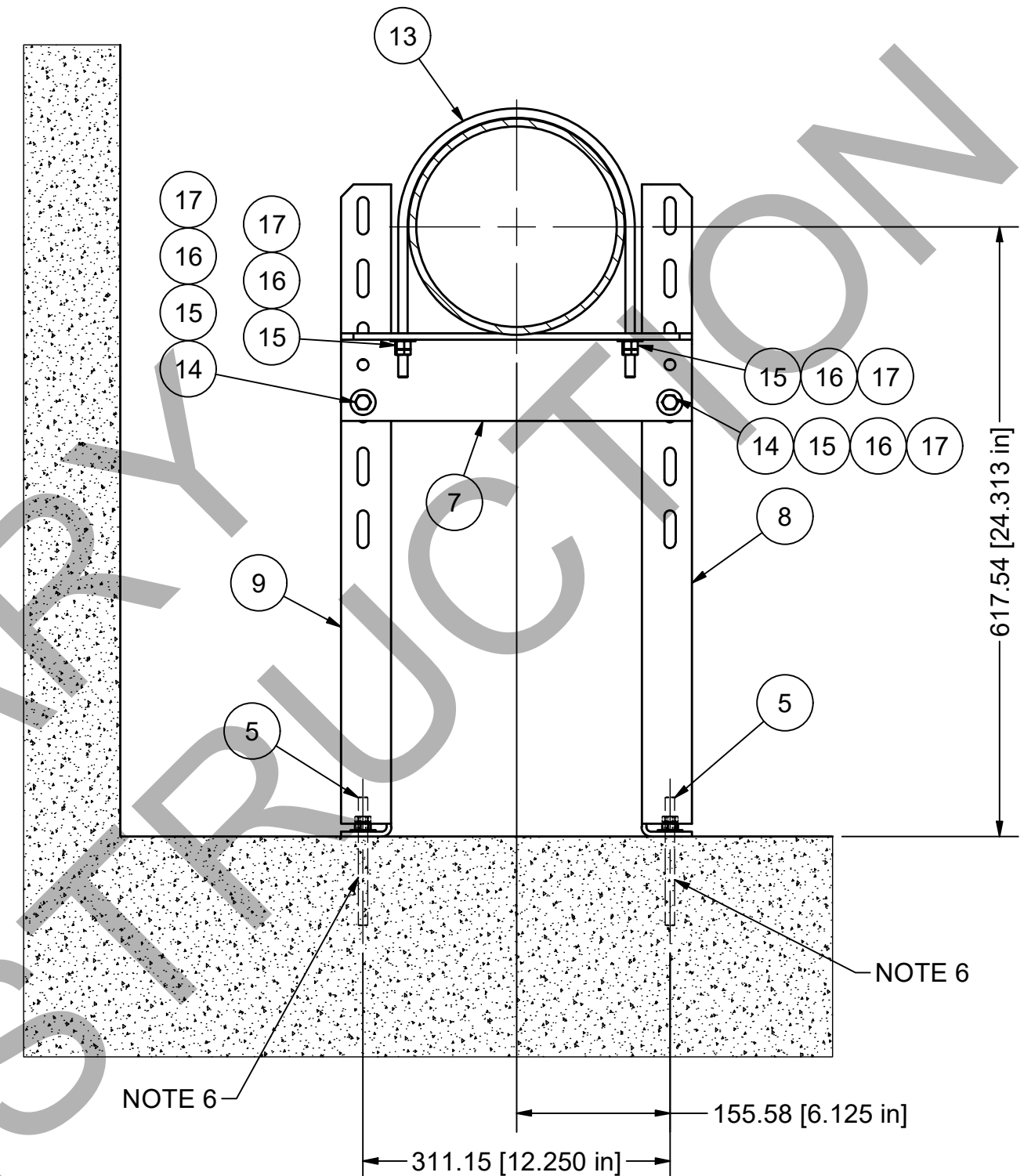
NOT FOR PRELIMINARY CONSTRUCTION

**CONFIDENTIAL**

JOB NAME: NAPANEE WPCP UPGRADES				AQUA-AEROBIC SYSTEMS, INC. <small>A Metawater Company</small>			
JOB LOCATION: NAPANEE, ONTARIO, CANADA				UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN MILLIMETERS			
DO NOT SCALE DRAWING				ALL ZERO PLACE DECIMALS +/- 0.25 mm ALL ONE PLACE DECIMALS +/- 0.1 mm ALL ANGLES +/- 1/2° ANSI			
MATERIAL:				SIMILAR TO:			
TYPE:				DRAWN BY: CJC			
REV A				2024-10-07		CJC	
SUBMITTAL				DATE		DATE	
REV ERNECO				DATE		REVISION DESCRIPTION	
DRAWING NAME: SLUDGE REMOVAL SYSTEM INSTL, SLUDGE BUFFER				WEIGHT: TABLE		SHEET: 1 OF 3	
DRAWING NUMBER: 9704419A30031				SCALE: 1/30		SIZE: D	



SECTION A-A  
SCALE 1/16  
(TYPICAL FOR BOTH BASINS)



SECTION A1-A1  
SCALE 1/6  
TYPICAL (6) PLACES

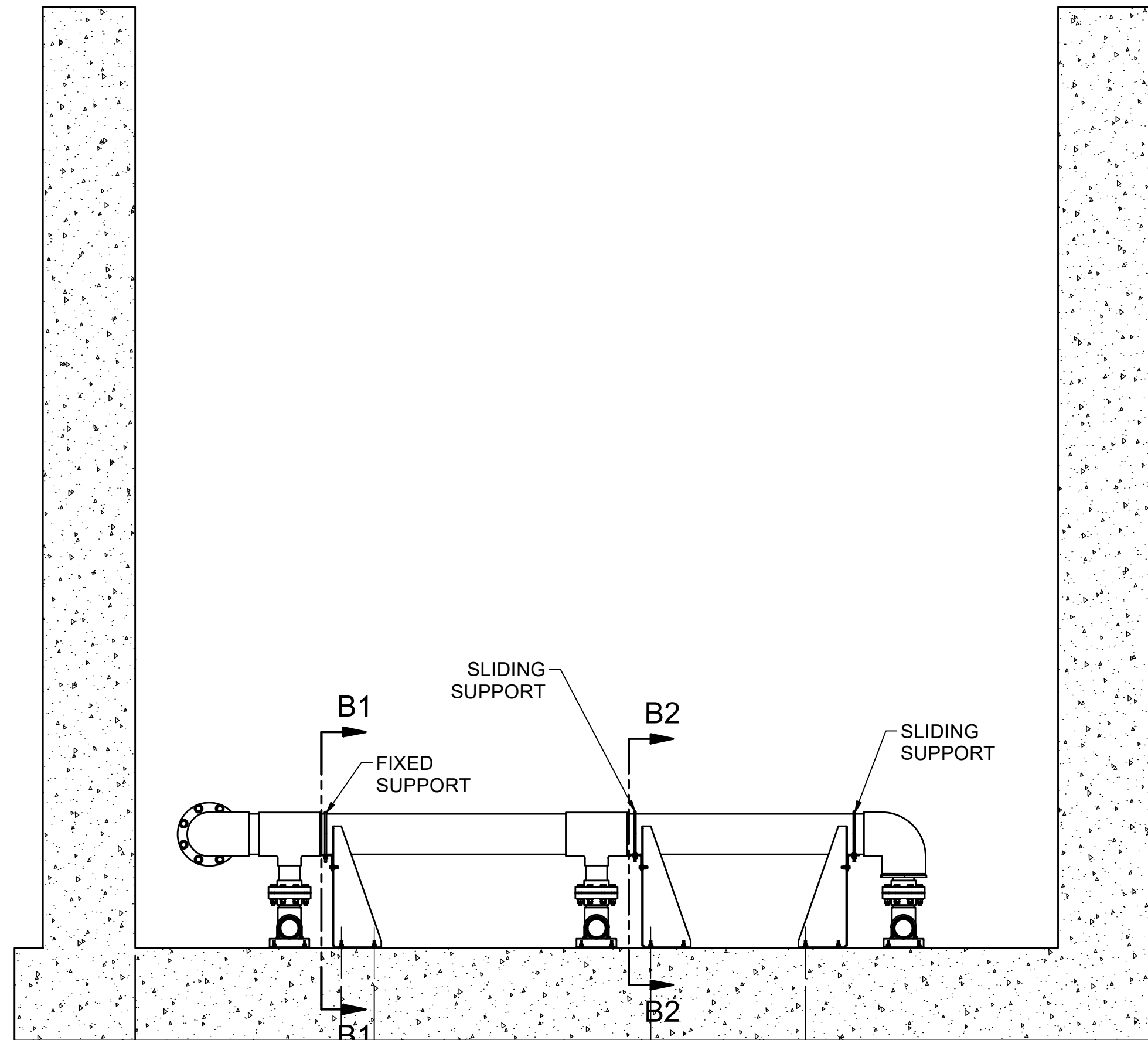
**INSTALLATION NOTES:**

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- ALL PIPING AND HARDWARE BEYOND THE TERMINATION FLANGE HAVE BEEN SHOWN FOR REFERENCE ONLY AND IS TO BE SUPPLIED AND INSTALLED BY OTHERS.
- SLUDGE MANIFOLD MUST BE INSTALLED WITH THE ORIFICE HOLES POINTED STRAIGHT DOWN WITHIN +/- 1°. ALL FLOOR SUPPORT BRACKETS MUST NOT COVER THE ORIFICE HOLES.
- USE SLUDGE MANIFOLD SUPPORT BRACKET AS A TEMPLATE TO MARK AND DRILL FOR ADHESIVE ANCHORS. REFER TO ADHESIVE ANCHOR DRAWING AND O&M MANUAL FOR PROPER INSTALLATION.

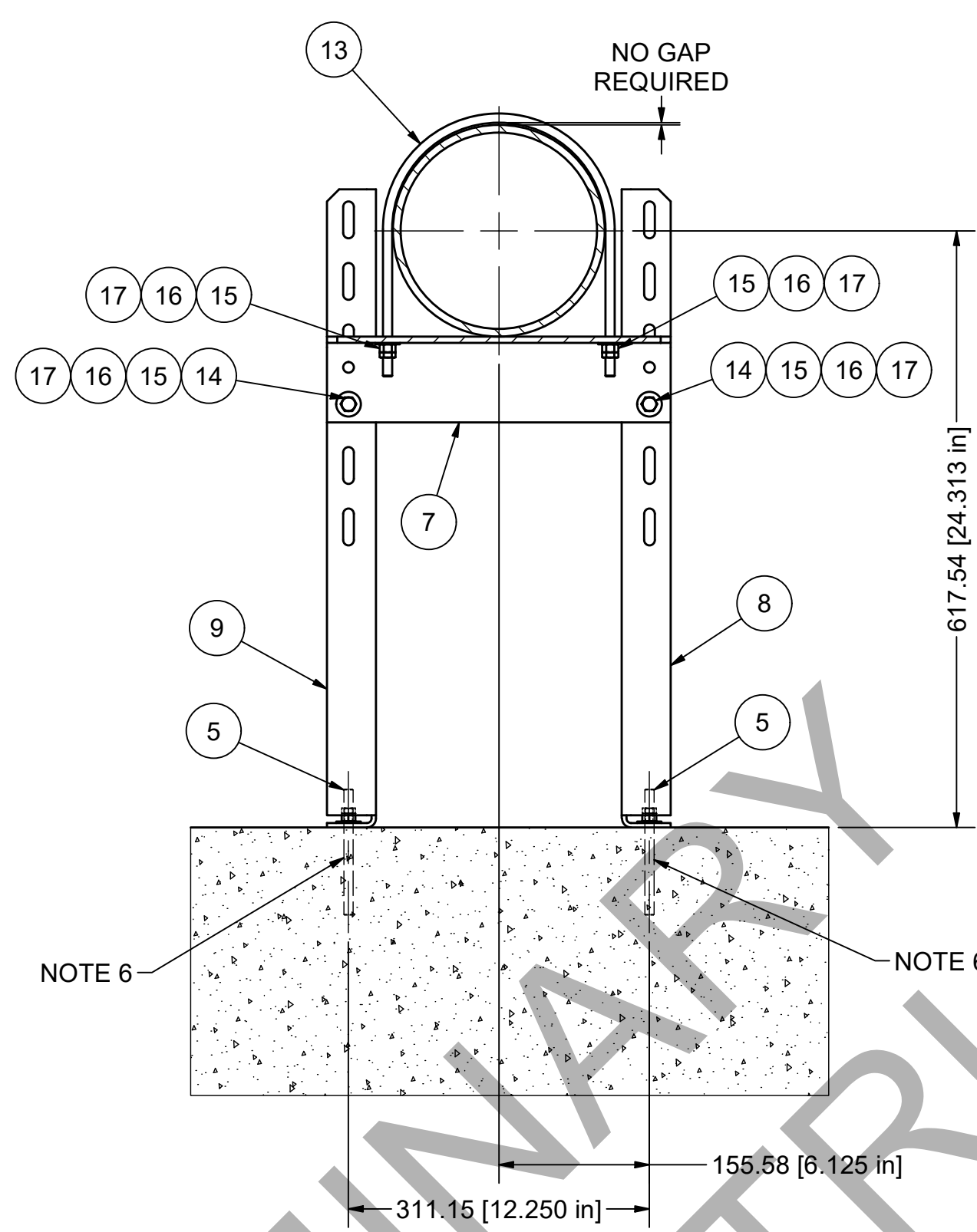
**CONFIDENTIAL**

JOB NAME: NAPANEE WPCP UPGRADES		AQUA-AEROBIC SYSTEMS, INC. <small>A Mettawater Company</small>	
JOB LOCATION: NAPANEE, ONTARIO, CANADA		UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN MILLIMETERS	
		DO NOT SCALE DRAWING	
		ALL ZERO PLACE DECIMALS +/- 0.25 mm ALL ONE PLACE DECIMALS +/- 0.1 mm ALL ANGLES +/- 1/2° ANSI	
MATERIAL:			
SIMILAR TO:			
TYPE:			
A	2024-10-07	CJC	2024-10-07
REV	ERNECO	DATE	BY
DRAWING NAME: SLUDGE REMOVAL SYSTEM INSTL, SLUDGE BUFFER		DRAWN BY: CJC	
		DATE: 2024-10-07	
		WEIGHT: TABLE	
		SHEET: 2 OF 3	
		DRAWING NUMBER: 9704419A30031	
		SCALE: 1/16	
		SIZE: D	

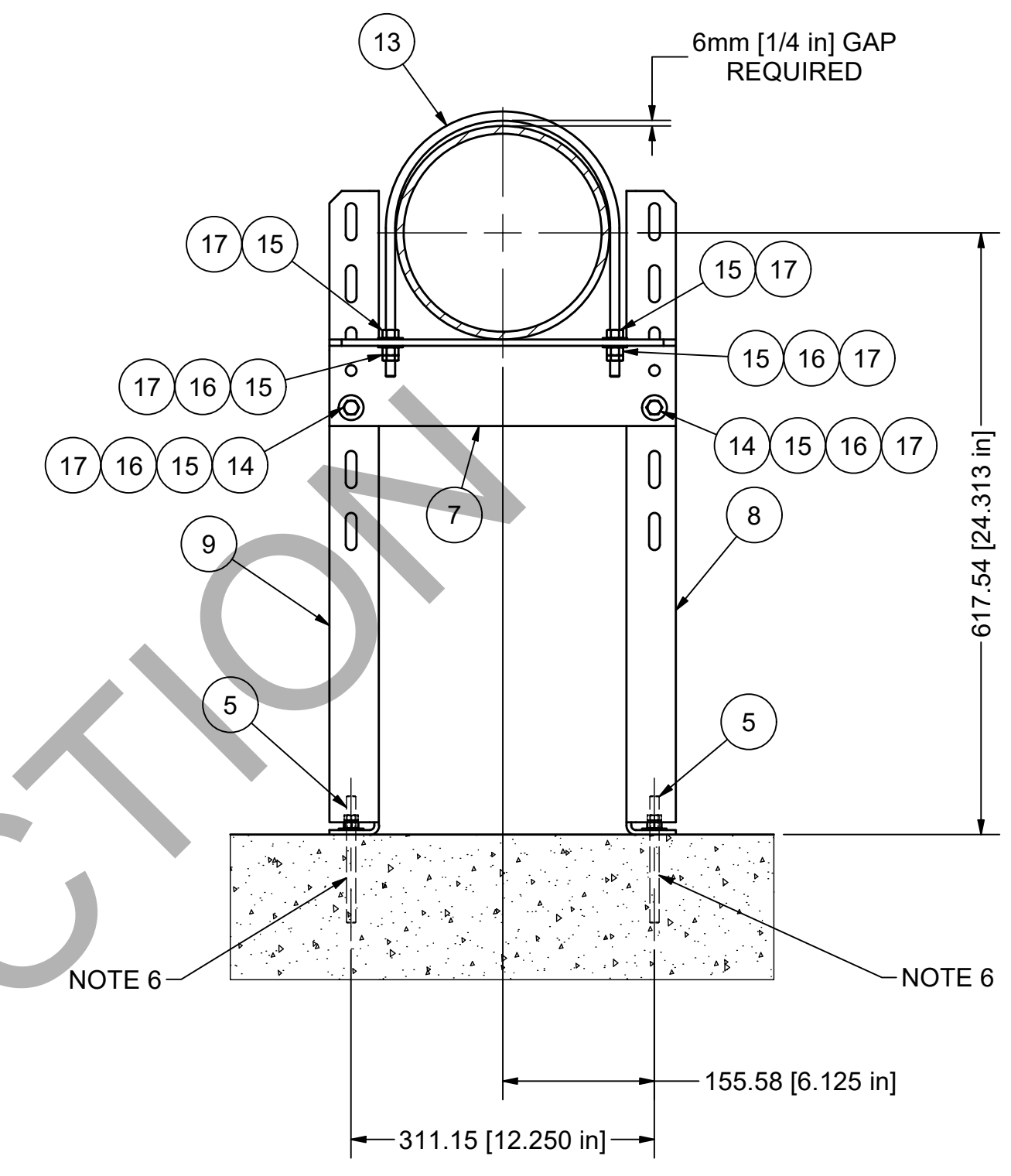
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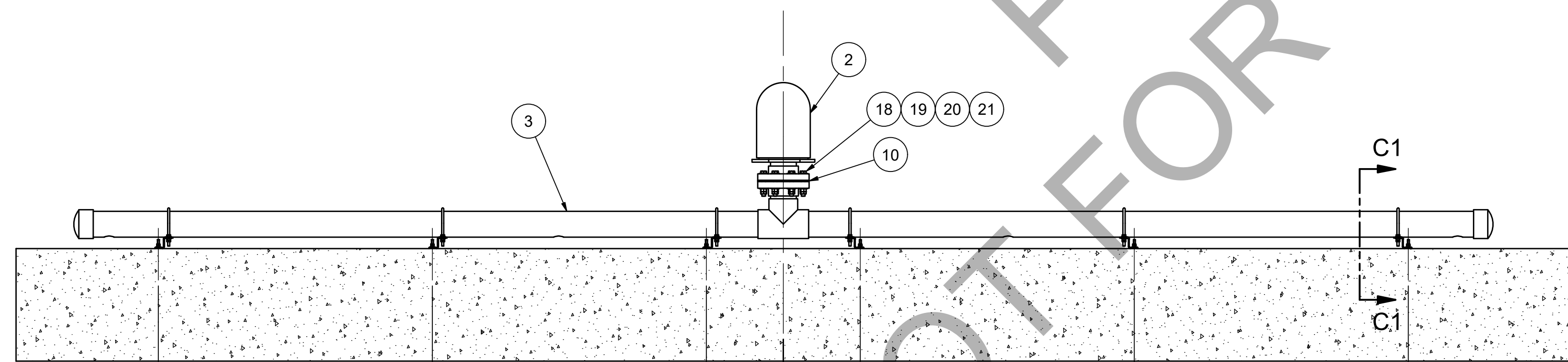
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177.80 [7.000 in] TYP  
2794.00 [110.000 in]  
3632.20 [143.000 in]



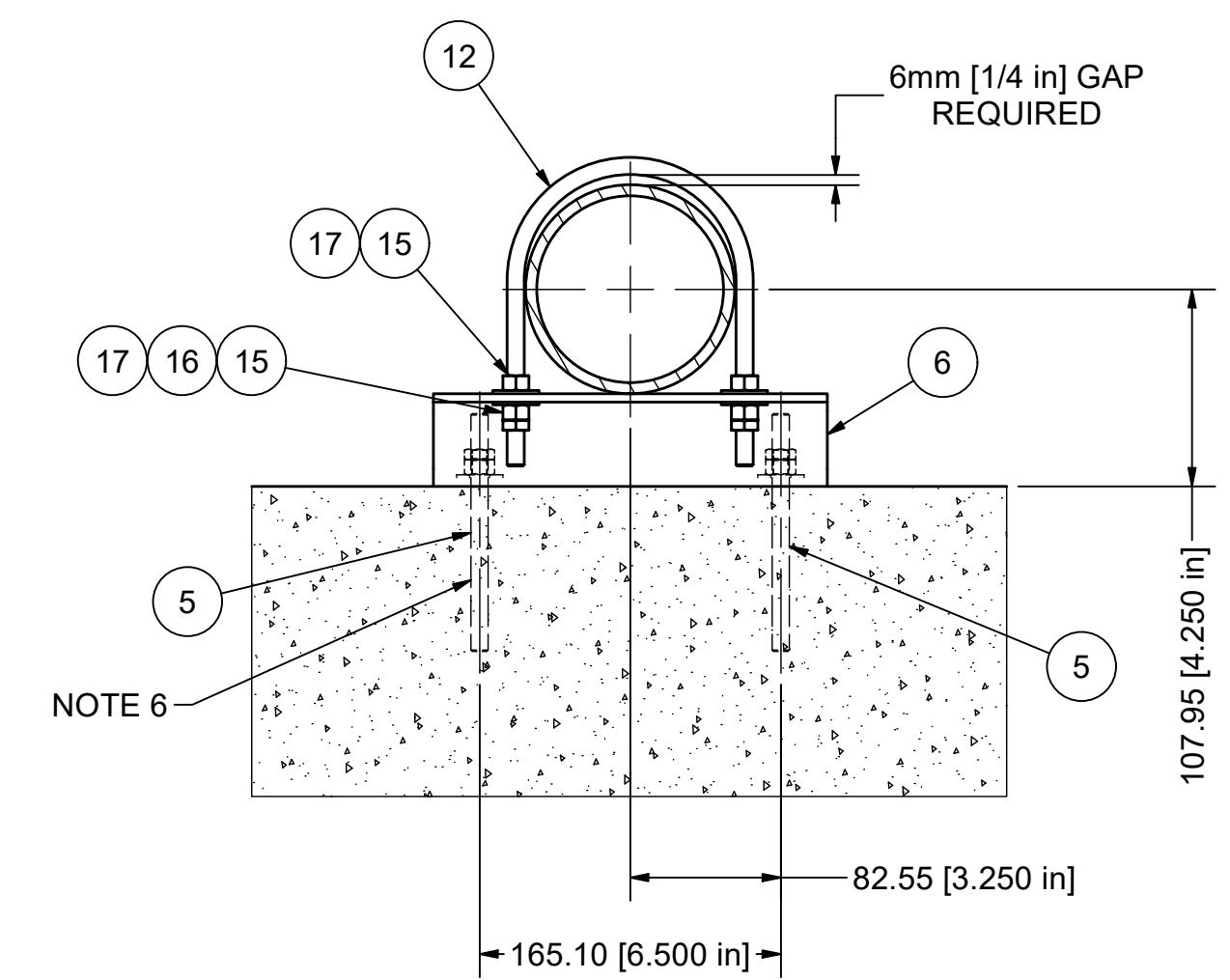
617.54 [24.313 in]  
155.88 [6.125 in]  
311.15 [12.250 in]



617.54 [24.313 in]  
155.58 [6.125 in]  
311.15 [12.250 in]



342.40 [13.480 in] TYP  
1561.60 [61.480 in] TYP  
2780.80 [109.480 in] TYP  
342.40 [13.480 in] TYP  
1561.60 [61.480 in] TYP  
2780.80 [109.480 in] TYP



107.95 [4.250 in]  
82.55 [3.250 in]  
165.10 [6.500 in]

**INSTALLATION NOTES:**

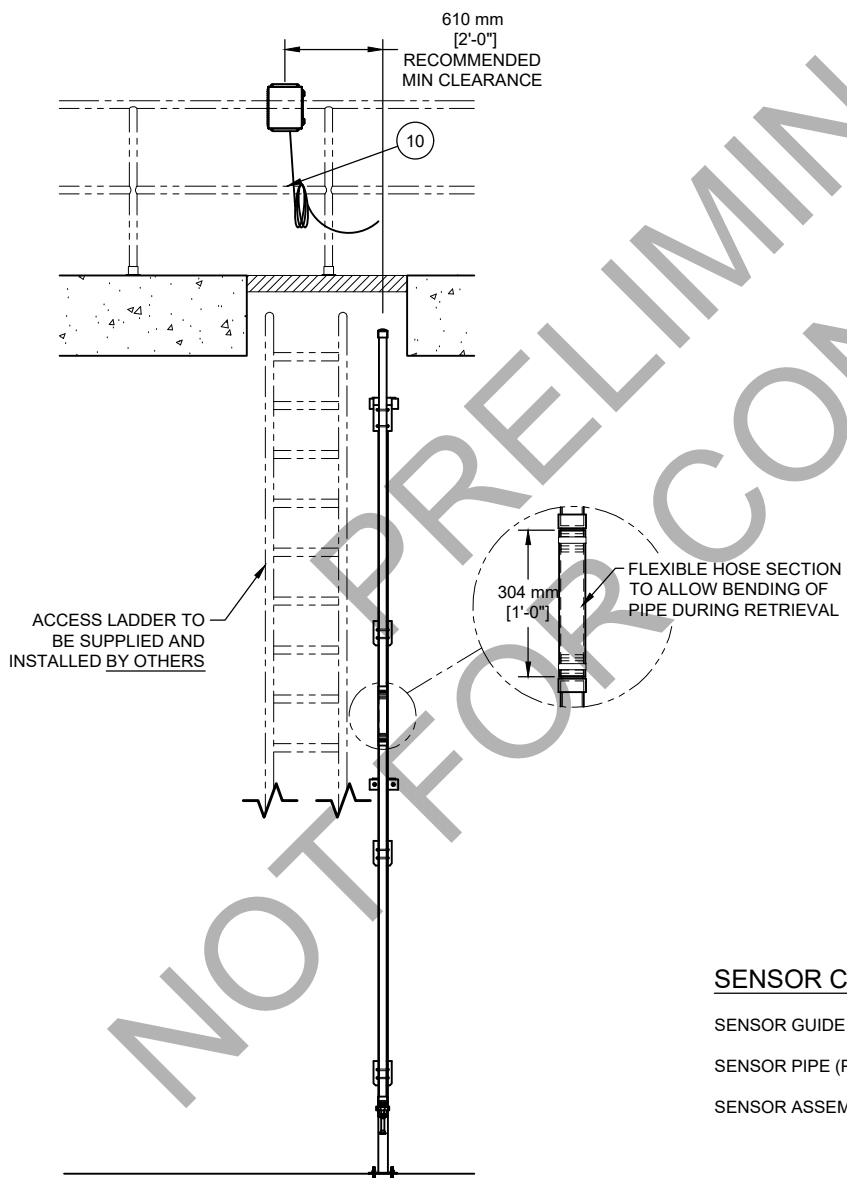
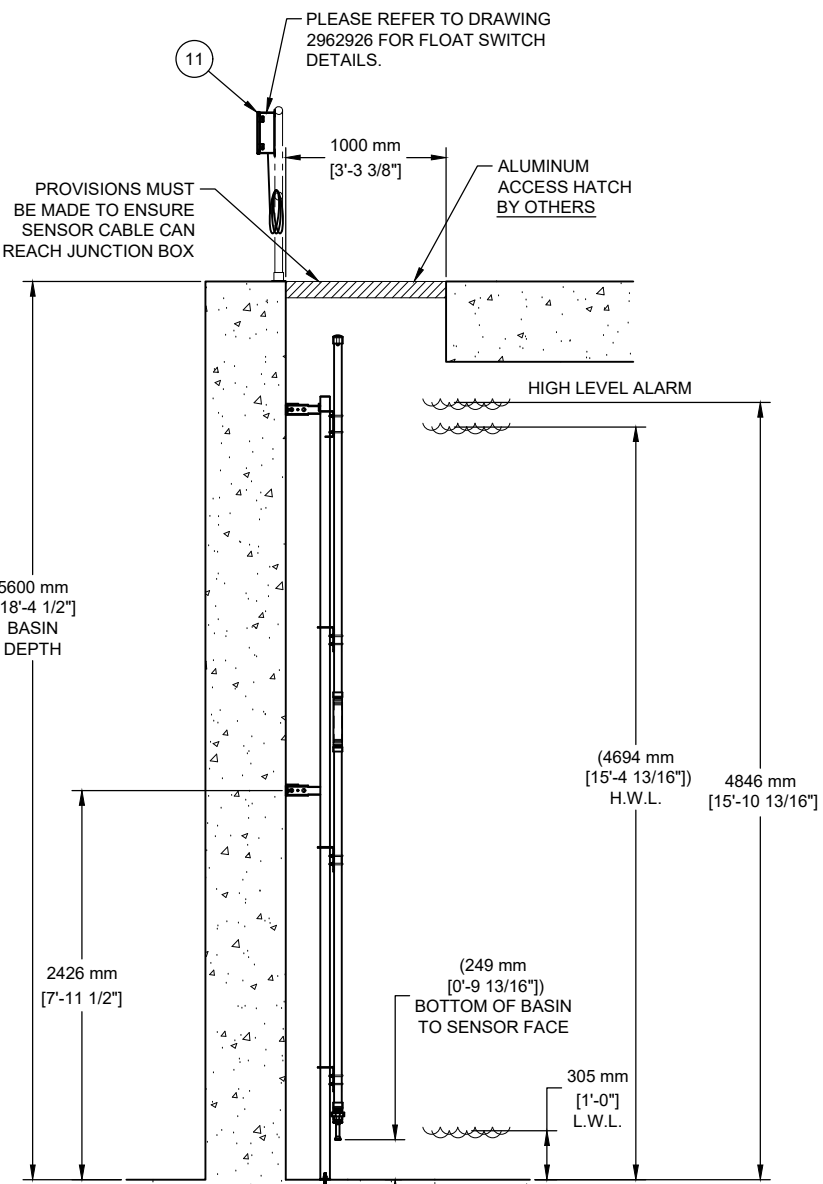
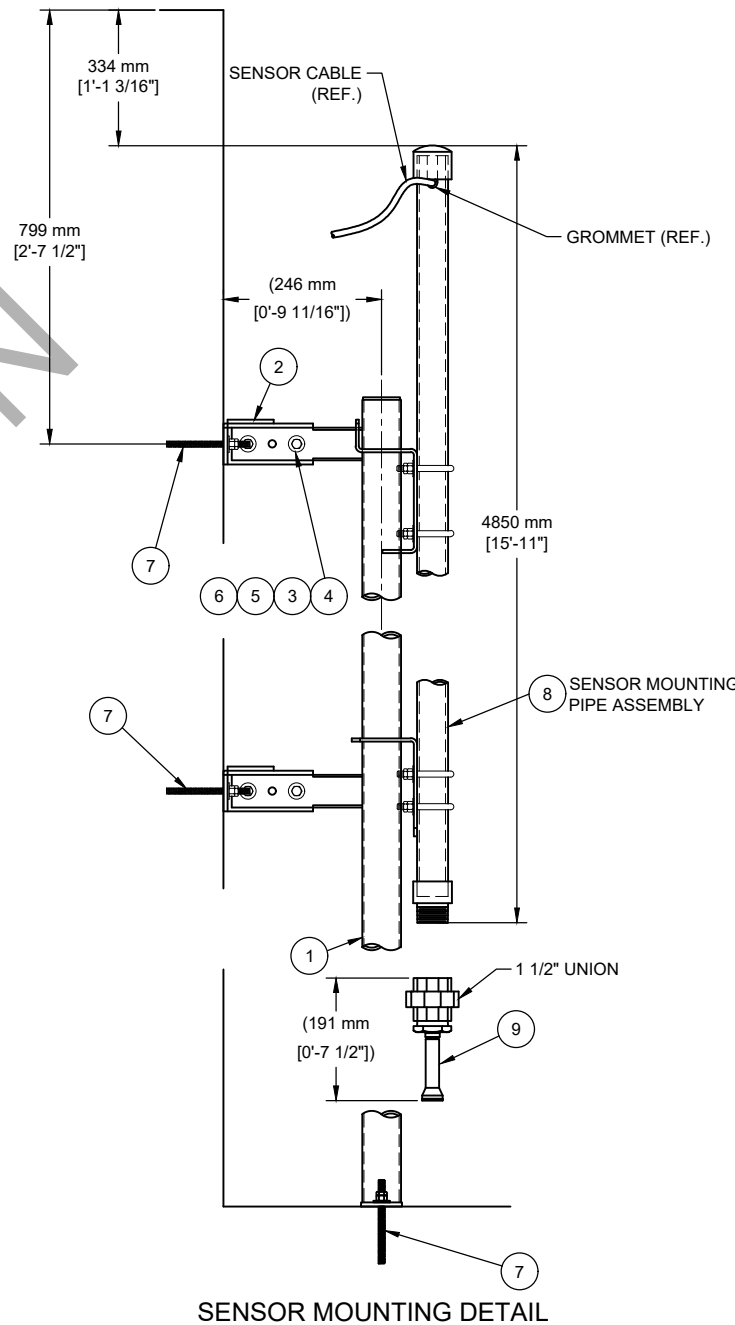
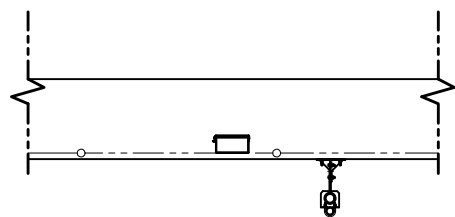
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JOB NAME: NAPANEE WPCP UPGRADES		AQUA-AEROBIC SYSTEMS, INC. A Mettler-Toledo Company	
JOB LOCATION: NAPANEE, ONTARIO, CANADA		UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN MILLIMETERS	
		DO NOT SCALE DRAWING	
		ALL ZERO PLACE DECIMALS +/- 0.25 mm ALL ONE PLACE DECIMALS +/- 0.1 mm ALL ANGLES +/- 1/2°	
		ANSI	
MATERIAL:			
SIMILAR TO:			
TYPE:			
A	2024-10-07	CJC	SUBMITTAL
REV	ERNECO	DATE	BY
DRAWING NAME:		DRAWN BY: CJC	
SLUDGE REMOVAL SYSTEM INSTL, SLUDGE BUFFER		DATE: 2024-10-07	
		WEIGHT: TABLE	
		SHEET: 3 OF 3	
		DRAWING NUMBER: 9704419A30031	
		SCALE: 1/24	
		SIZE: D	

**CONFIDENTIAL**

**SENSOR INSTALLATION NOTES:**

- UNLESS NOTED OTHERWISE, AFTER COMPLETION OF INSTALLATION AND WIRING, SENSORS ARE TO BE REMOVED AND RETURNED TO STORAGE UNTIL COMMISSIONING. FAILURE TO RETURN SENSORS TO STORAGE PER GUIDELINES IN OPERATION AND MAINTENANCE SECTION 1 MAY RESULT IN SENSOR DAMAGE AND VOID WARRANTY.
- MOUNT GUIDE RAIL ASSEMBLY TO BASIN BEFORE INSTALLING SENSOR TO THE MOUNTING PIPE ASSEMBLY. MOUNT THE GUIDE RAIL ASSEMBLY LEVEL AND PLUMB. REFER TO THE SYSTEM PLAN VIEW DRAWING FOR LOCATION OF THE SENSORS IN THE BASIN.
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- SENSOR CABLE MUST NOT BE CUT, BUT COILED TOGETHER AND ATTACHED TO THE BASIN HANDRAILING WITH THE TY-WRAPS PROVIDED.
- ASSEMBLE SENSOR TO THE MOUNTING PIPE ASSEMBLY. SOME SENSOR CABLES CONTAIN A VENT TUBE TO REFERENCE ATMOSPHERIC PRESSURE. DO NOT CRIMP OR DISTORT CABLE. LIMIT THE MINIMUM BEND RADIUS TO (2) INCHES. PROTECT EXPOSED CABLE FROM SOURCES OF ACCIDENTAL DAMAGE.
- WITH SENSOR ASSEMBLED TO MOUNTING PIPE, SLIDE THE ASSEMBLY OVER THE GUIDE RAIL. ATTACH SENSOR CABLE TO JUNCTION BOX OR CONTROLLER AS NECESSARY.

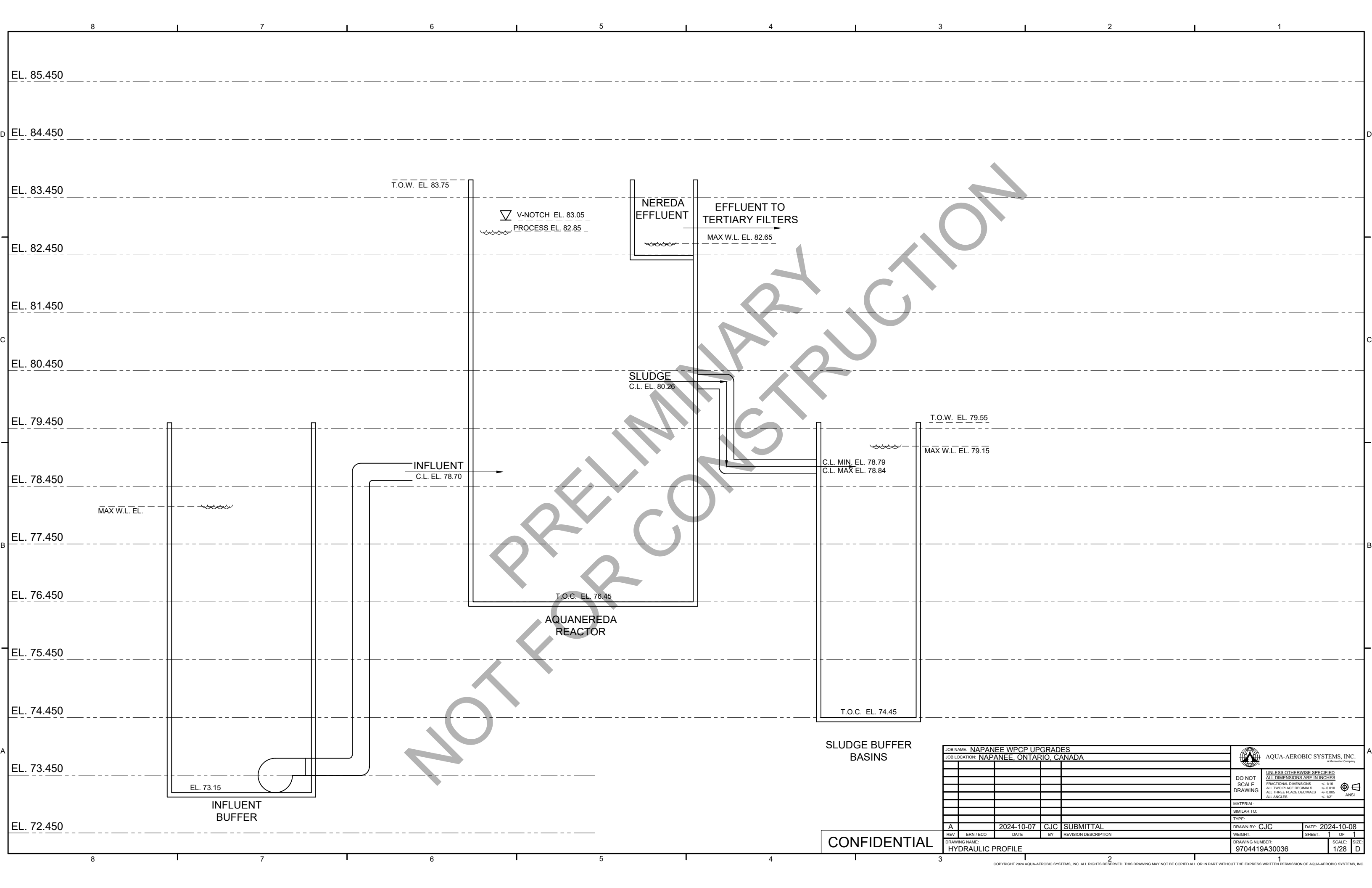


**SENSOR COMPONENT WEIGHTS:**

SENSOR GUIDE RAIL	59 LBS [21 kg]
SENSOR PIPE (PVC)	20 LBS [9 kg]
SENSOR ASSEMBLY (LEVEL)	3.6 LBS [2 kg]

JOB NAME: NAPANEE WPCP UPGRADES		AQUA-AEROBIC SYSTEMS, INC.	
JOB LOCATION: NAPANEE, ONTARIO, CANADA		A Molecular Company	
DO NOT SCALE DRAWING		UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES	
MATERIAL:		FRACTIONAL DIMENSIONS ±.010	
SIMILAR TO: M-SENSOR-14		ALL TWO PLACE DECIMALS ±.005	
TYPE:		ALL THREE PLACE DECIMALS ±.001	
DRAWN BY: CJC		DATE: 2024-10-03	
DATE: 2024-10-07		BY: CJC	
REVISION DESCRIPTION		SHEET: 1 OF 1	
DRAWING NUMBER: 9704419A30032		SCALE: 1/24	
LEVEL SENSOR INSTL, SLUDGE BUFFER		SIZE: D	

**CONFIDENTIAL**



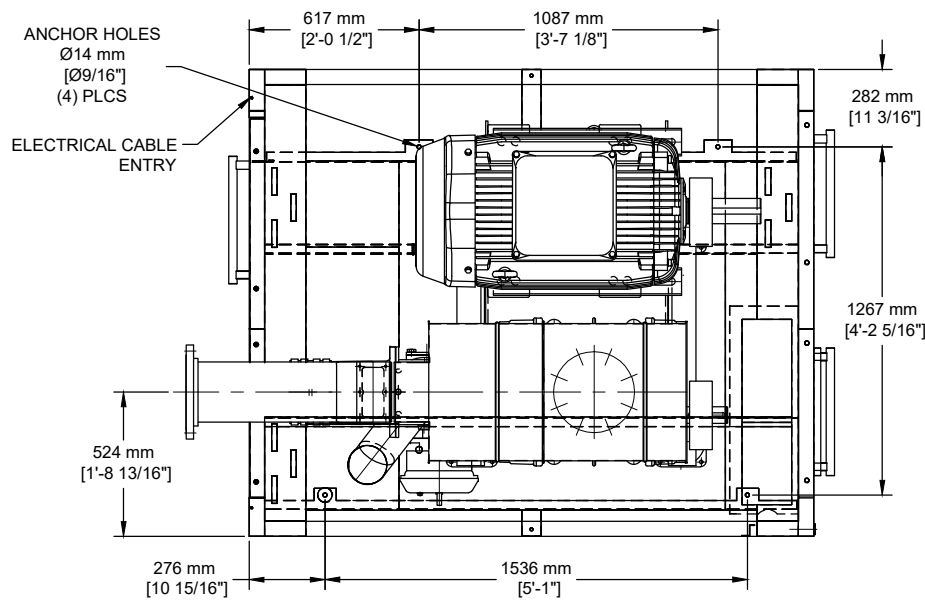
NOT FOR PRELIMINARY CONSTRUCTION

JOB NAME: NAPANEE WPCP UPGRADES				<b>AQUA-AEROBIC SYSTEMS, INC.</b> <small>A Molecular Company</small>	
JOB LOCATION: NAPANEE, ONTARIO, CANADA					
<b>DO NOT SCALE DRAWING</b>				<small>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES</small> <small>FRACTIONAL DIMENSIONS ±0.125</small> <small>ALL TWO PLACE DECIMALS ±0.010</small> <small>ALL THREE PLACE DECIMALS ±0.005</small> <small>ALL ANGLES ±0.1°</small>	
MATERIAL:				ANSI	
SIMILAR TO:				TYPE:	
DRAWN BY: CJC		DATE: 2024-10-08		SHEET: 1 OF 1	
REV. ERN / ECO DATE BY REVISION DESCRIPTION				WEIGHT:	
DRAWING NAME: HYDRAULIC PROFILE				DRAWING NUMBER: 9704419A30036	
				SCALE: 1/28	

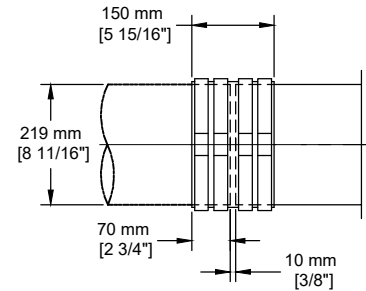
**CONFIDENTIAL**



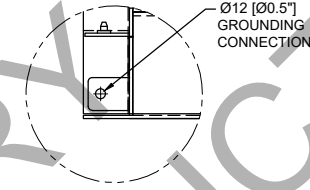
ITEM	QTY	DESCRIPTION	DESCRIPTION 2
100	1	BLOWER TORSD	GM60S, DN200
110	1	PRESSURE RELIEF VALVE	
200	1	SOUND ENCLOSURE	
300	1	ELECTRIC MOTOR	SHOWN WITH A 440 NEMA MOTOR
310	1	MOTOR MOUNTING	
320	1	BELT	
400	1	BELT-GUARD	
500	1	COOLING FAN	
600	1	DISCHARGE CONNECTION	8"-150# ANSI
700	1	INLET CONNECTION	8"-150# ANSI
800	1	INSTRUMENTATION	



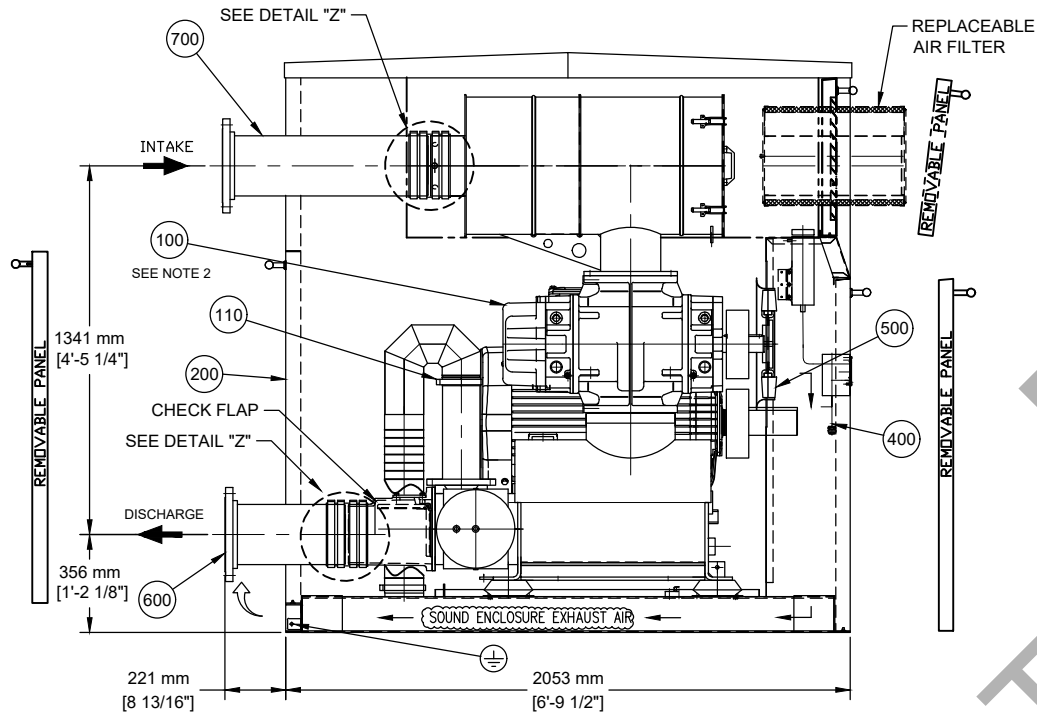
**PLAN VIEW**  
SHOWN WITHOUT ROOF FOR CLARITY



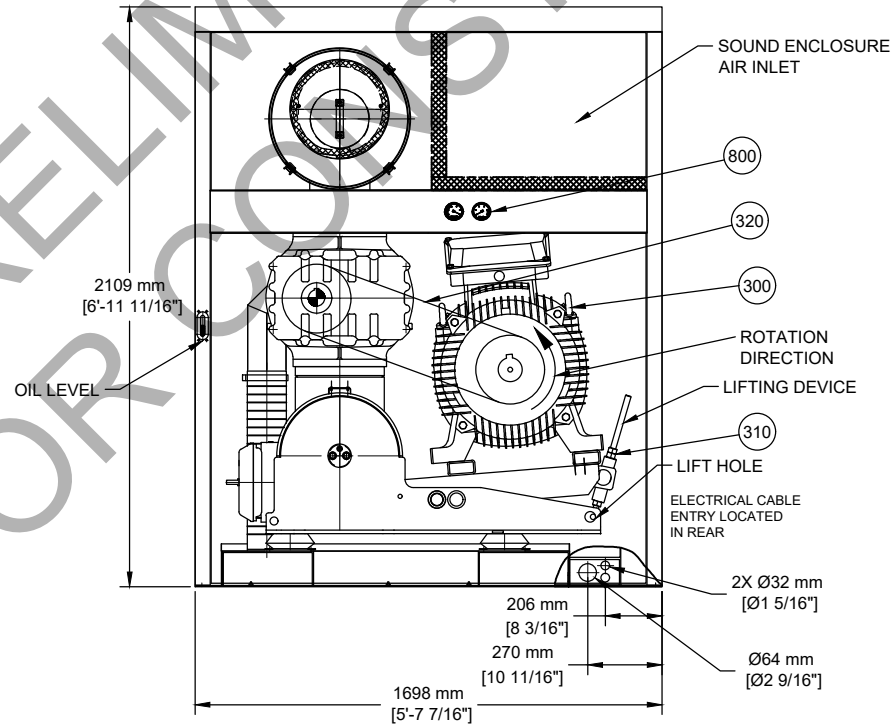
**DETAIL Z**  
SLEEVE CONNECTION  
CUSTOMER PIPE ENGAGEMENT  
LEAVES 10 [0.4"] GAP  
2X SCALE



**EARTH GROUND**  
MAT'L: 304 SS  
3X SCALE



**SIDE VIEW**  
SHOWN WITHOUT SIDE WALL FOR CLARITY



**FRONT VIEW**  
SHOWN WITHOUT REMOVABLE PANELS FOR CLARITY

**NOTES:**

1. TOLERANCE ON DIMENSIONS = ±12mm [0.5"]
2. ITEM 100 (BLOWER TORSD) INCLUDES BLOWER STAGE, INLET SILENCER, BASE FRAME/DISCHARGE SILENCER, VIBRATION ISOLATORS, & CONNECTION HOUSING WITH CHECK FLAP
3. CUSTOMER PIPING TO BE INDEPENDENTLY SUPPORTED
4. LIFT PACKAGE FROM FRONT SIDE THROUGH FORK LIFT POCKETS IN BASE
5. SEE JOB DATA SHEETS FOR PERFORMANCE DATA, PART NUMBERS, TOTAL PACKAGE WEIGHT, INSTRUMENTATION, ANY OTHER OPTIONAL EQUIPMENT & OWNERS MANUAL
6. REGARDLESS OF THE OPERATING CONDITION, NO FORCES AND TORQUES MAY ACT ON THE MACHINE THROUGH THE CONNECTED SYSTEM PIPING. ALL CUSTOMER PIPING CONNECTIONS MUST BE DESIGNED AS FIXED POINTS AT THE AERZEN MACHINE LIMIT.

**WEIGHT**

BLOWER PACKAGE (LESS MOTOR)	1413 kg	3115 lb
ELECTRIC MOTOR (ITEM 300)	749 kg	1651 lb
TOTAL (WET WEIGHT)	2162 kg	4766 lb

JOB NAME: NAPANEE WPCP UPGRADES				AQUA-AEROBIC SYSTEMS, INC. <small>A Molecular Company</small>			
JOB LOCATION: NAPANEE, ONTARIO, CANADA				UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES			
DO NOT SCALE DRAWING				FRACTIONAL DIMENSIONS ±.1/16" ALL TWO PLACE DECIMALS ±.010" ALL THREE PLACE DECIMALS ±.005" ALL ANGLES ±.1°			
MATERIAL:				ANSI			
SIMILAR TO:				TYPE:			
A R22845				DRAWN BY: CJC			
2024-08-20				DATE: 2024-10-03			
JFM				PRE-ORDER			
REV				WEIGHT:			
ERN / ECO				SHEET: 1 OF 1			
DATE				BY			
REVISION DESCRIPTION				DRAWING NUMBER: 9704419A30400			
DRAWING NAME: BLOWER PACKAGE, 125HP				SCALE: 1/14			
				SIZE: D			