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1. 1X SOFT RAIN + 1X RIVER MAZE

2. BACKREST SEATING

WATER FEATURE OPTIONS: VOR3504 (WITH RIVER MAZE)

2. 1X MIST + 1X RIVER MAZE

- 1. FLAT SEATING
- **BENCH OPTIONS:**

- ABRIO OPTIONS :
- AVOID SHADOW AREAS FOR INSTALLATION
- NORTH FACING FOR SOUTH OF THE EQUATOR
- SOUTH FACING FOR NORTH OF THE EQUATOR
- OPTIMAL SOLAR ORIENTATION (DONE BY OTHERS):
- UNTIL IT'S RECHARGED TO 20% (3-5 SUNNY HOURS).
- 3) IF YOU HAD SEVERAL DAYS WITHOUT SUN (3 OR MORE), THE SYSTEM WILL GO TO A SLEEP MODE, WHICH WILL SHUTDOWN THE SYSTEM TO PROTECT THE CONTROLLER AND THE BATTERY
- 2) FAILURE TO FOLLOW VORTEX APPLICATION GUIDELINES, DRAWINGS, WIRING DIAGRAM & CABLE SPECIFICATIONS WILL VOID PRODUCT WARRANTY.
- 1) NO LIVE ELECTRICAL CONNECTION TO BE DONE. SOLAR BATTERY SYSTEM IN OPERATION.
- **ELECTRICAL NOTES:**
- STEP-BY-STEP INSTRUCTIONS.
- 5) ABRIO PRODUCTS ARE ASSEMBLED ON-SITE BY INSTALLER. REFER TO ASSEMBLY GUIDE FOR
- 3) USE ANTI-SEIZE ON ALL THREADS. 4) DRAINAGE SOLUTIONS ARE OPTIONAL AND UNDER THE RESPONSABILITY OF THE INSTALLER.
- 2) PIPE LOCATIONS ARE APPROXIMATE AND SUBJECT TO CHANGE.
- 1) "BY OTHERS" MAY REFER TO SERVICE PROVIDERS OTHER THAN THE EQUIPMENT MANUFACTURER. PLEASE REFER TO PROJECT SPECIFICATION FOR DETAILS OF RESPONSIBILITY.
- GENERAL NOTES:

1. FLAT SEATING (CURRENTLY SHOWN)

ALL ANCHOR PLATES AND LEGS MUST BE INSTALLED AT THE SAME LEVEL. USE NON-SHRINK GROUT TO LEVEL. (DONE BY OTHERS)

• VORTEX VORTEX AQUATIC STRUCTURES INTL 7800 Autoroute Trans Canadienne Pointe Claire (Montreal) Québec, Canada H9R 1C6 Toll-free:1.877.5VORTEX www.vortex-intl.com

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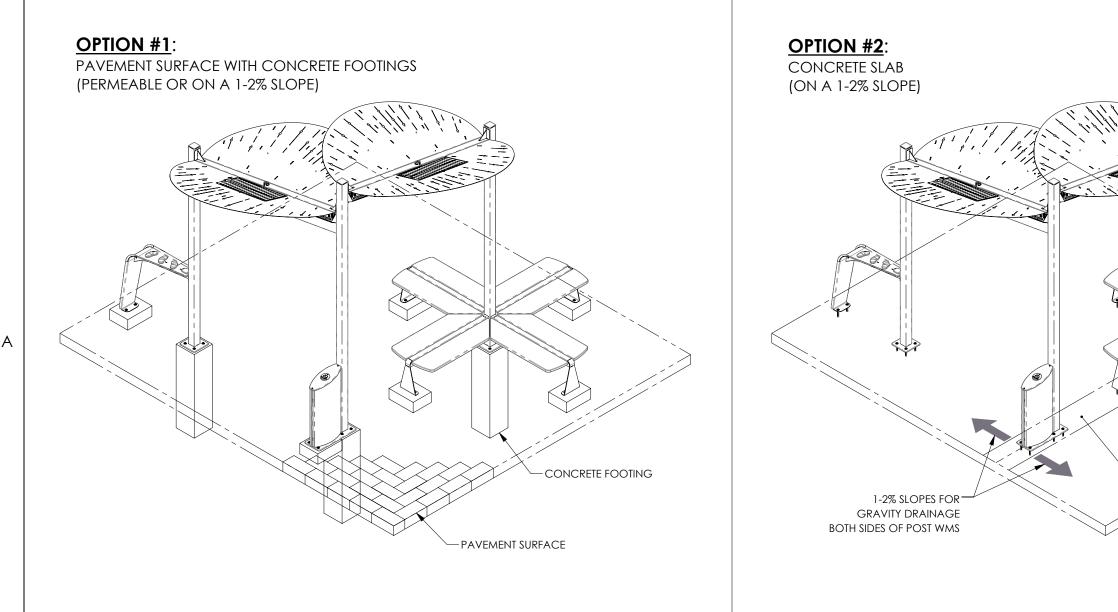
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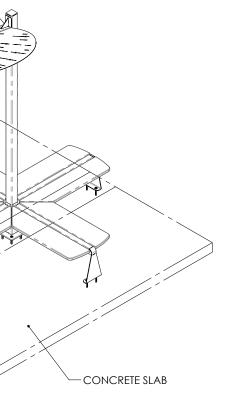
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INSTALLATION OPTIONS





FLAT SECTION FOR POST WMS VORTEX AQUATIC STRUCTURES INTL 7800 Autoroute Trans Canadienne Pointe Claire (Montreal) Québec, Canada H9R 1C6

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48 350 DRAWING R Ζ L 0 m Ŷ — **S** V O Z ABRIO

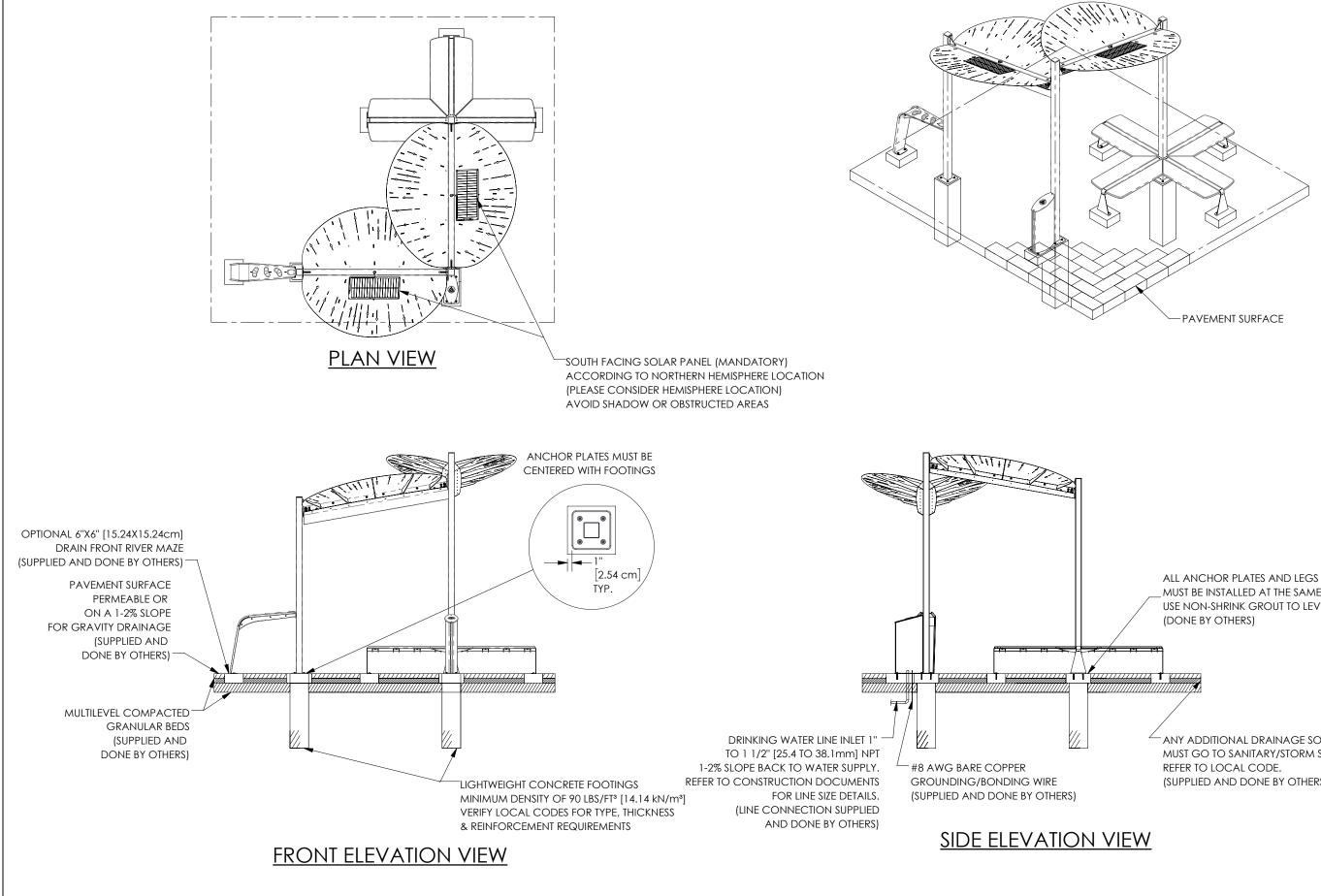
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INSTALLATION OPTION #1: PAVEMENT SURFACE WITH CONCRETE FOOTINGS

REFER TO TYPICAL ANCHORING DETAILS

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MUST BE INSTALLED AT THE SAME LEVEL. USE NON-SHRINK GROUT TO LEVEL.

ANY ADDITIONAL DRAINAGE SOLUTION MUST GO TO SANITARY/STORM SEWER (SUPPLIED AND DONE BY OTHERS)



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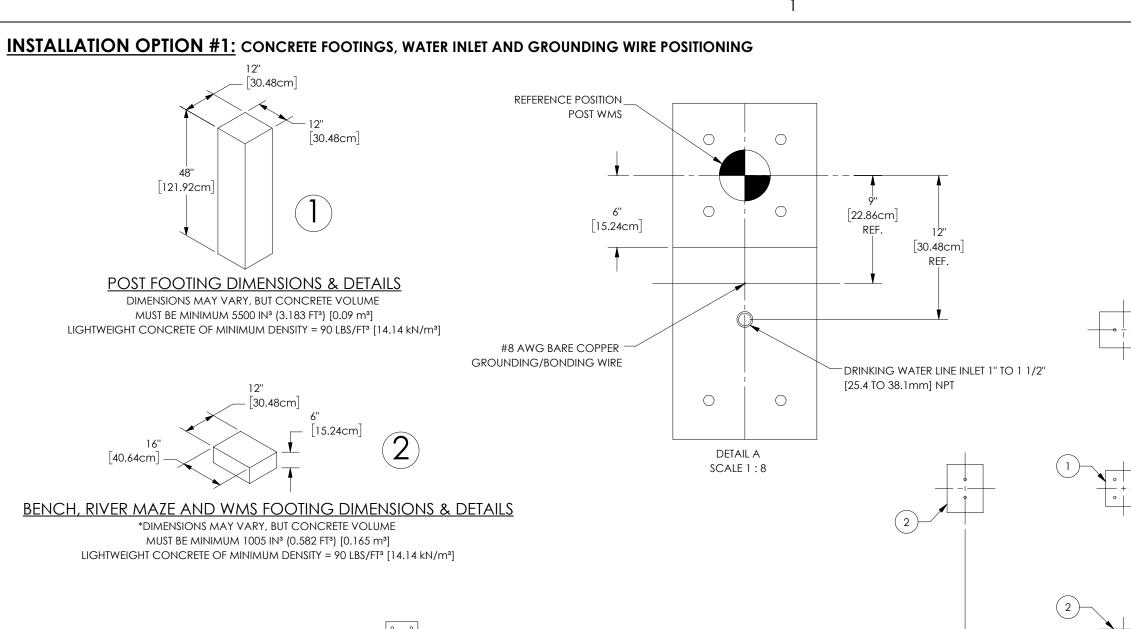
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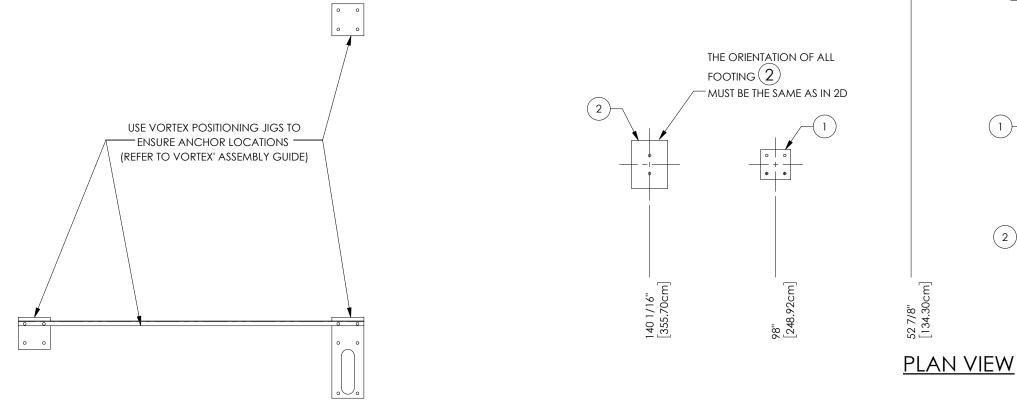
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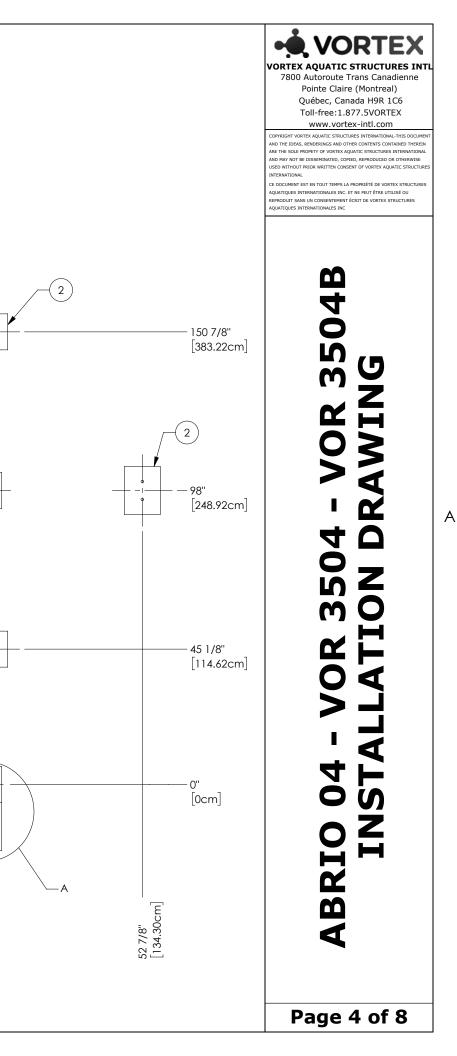
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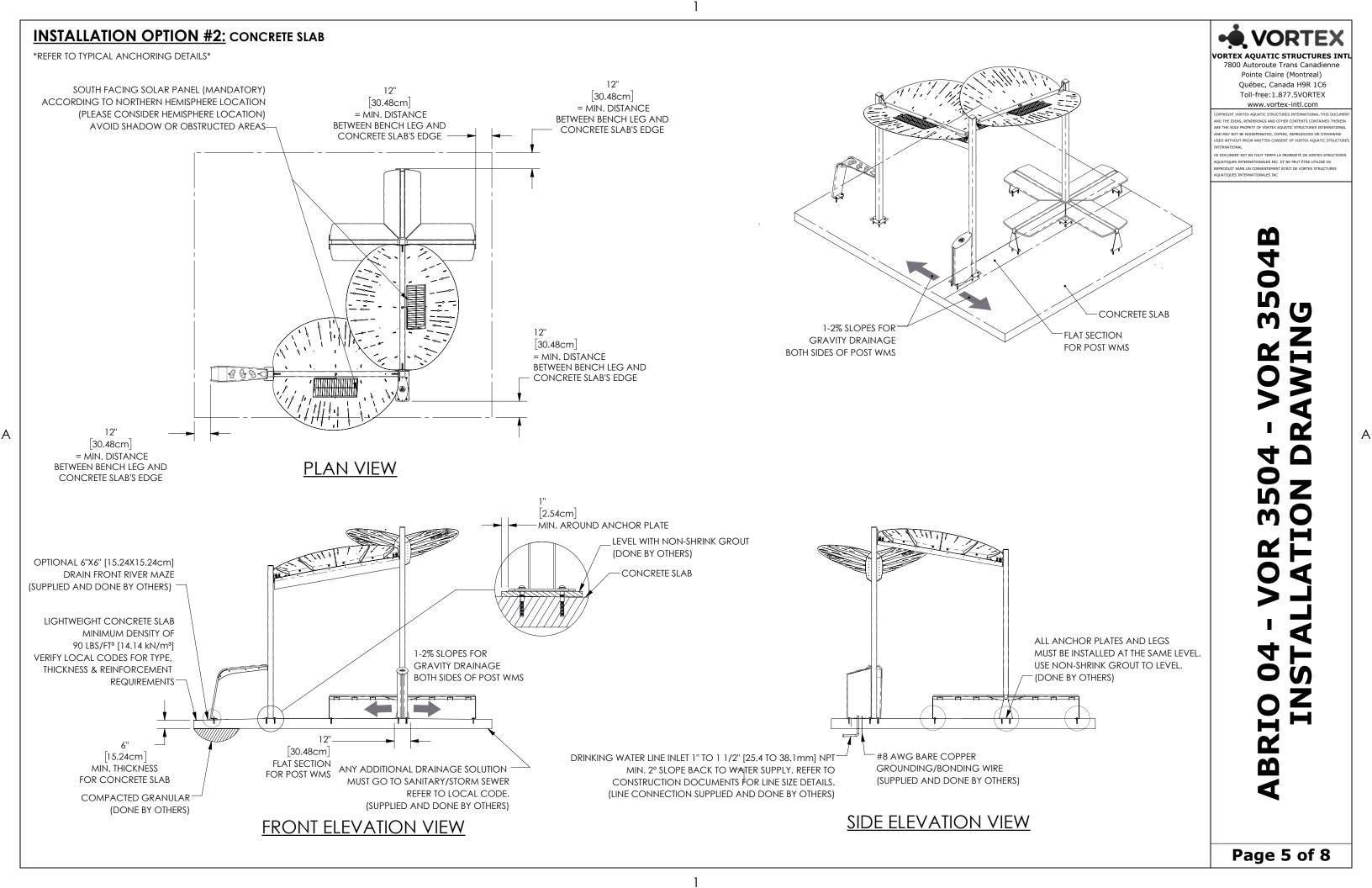
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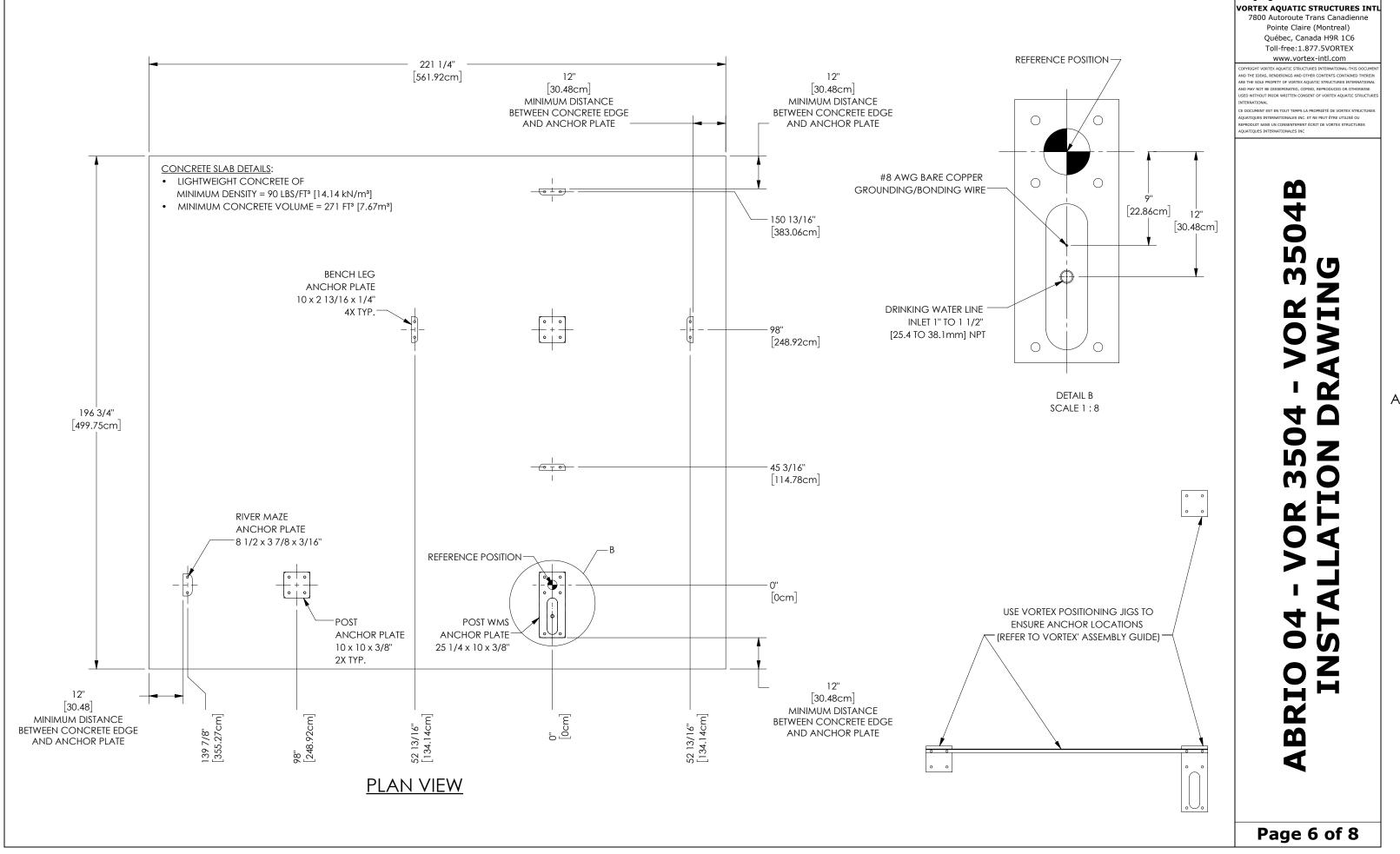


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INSTALLATION OPTION #2: CONCRETE SLAB, WATER INLET AND GROUNDING WIRE POSITIONING

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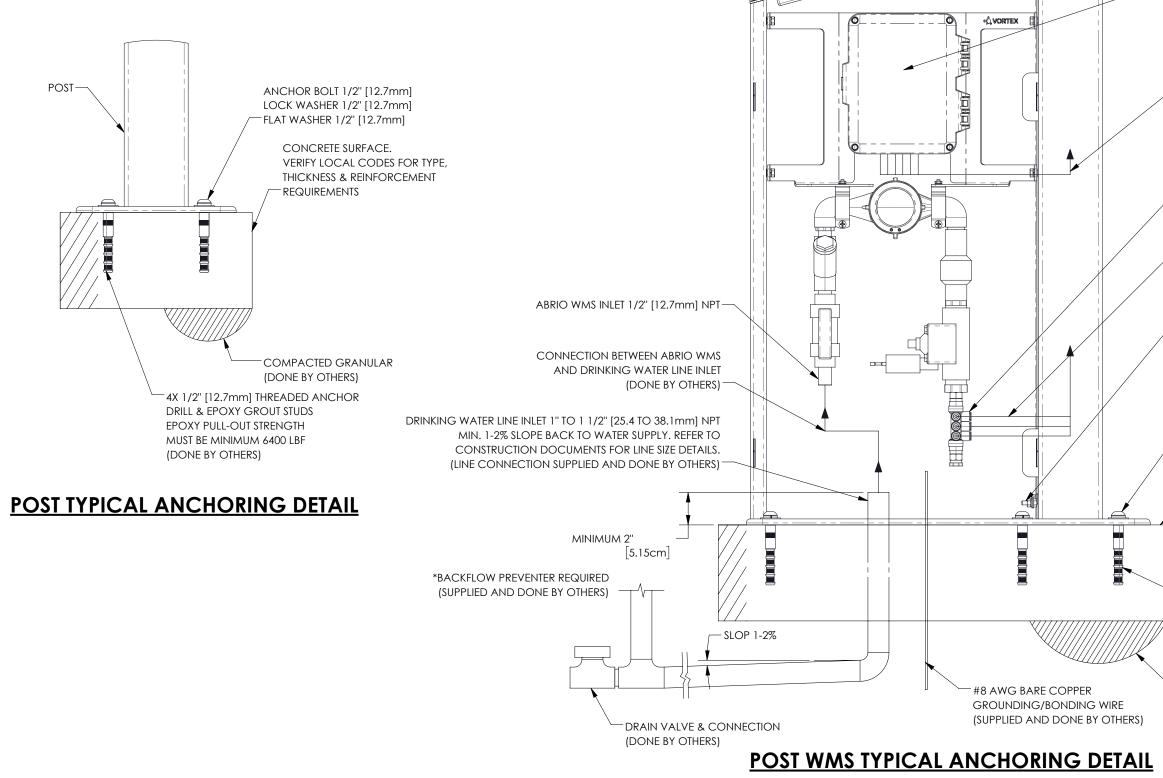
POSTS TYPICAL ANCHORING STEPS (DONE BY OTHERS)

REFER TO ANCHORING POSITIONS PAGE AND VORTEX' ASSEMBLY GUIDE

- PLACE ANCHORING JIGS AS DETAILED IN THE VORTEX' ASSEMBLY GUIDE 1.
- MARK ON CONCRETE FOOTING OR SLAB, THE POST'S ANCHORING HOLES' POSITIONS. 2.
- 3. DRILL ON HOLES' MARKINGS WITH 3/4" DRILL BIT SIZE.
- CLEAN THE DRILLED HOLES. 4

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- 5. PUT ANCHORS IN HOLES WITH EPOXY (EPOXY ANCHORING ADHESIVE PULL-OUT STRENGTH MUST BE MINIMUM 6400 LBF)
- 6. WAIT FOR EPOXY'S CURING TIME
- 7. ASSEMBLE THE POSTS AS PER VORTEX' ASSEMBLY GUIDE.



COMPACTED GRANULAR (DONE BY OTHERS)

6X 1/2" [12.7mm] THREADED ANCHOR DRILL & EPOXY GROUT STUDS EPOXY PULL-OUT STRENGTH MUST BE MINIMUM 6400 LBF (DONE BY OTHERS)

CONCRETE SURFACE. VERIFY LOCAL CODES FOR TYPE, THICKNESS & REINFORCEMENT REQUIREMENTS

ANCHOR BOLT 1/2" [12.7mm] LOCK WASHER 1/2" [12.7mm] FLAT WASHER 1/2" [12.7mm]

1/4" [6.35mm] EARTH -GROUDING STUD

TUBES CONNECTION TO MANIFOLD USING SUPPLIER CONNECTORS - (DONE BY OTHERS)

ABRIO WMS 6 PORTS MANIFOLD OUTLET FOR 5/16" [7.94mm] TUBES

CABLES CONNECTION TO LED LIGHTS AND SOLAR PANELS USING SUPPLIED CONNECTORS (DONE BY OTHERS)

MICROFLOW CONTROLLER

POST WMS

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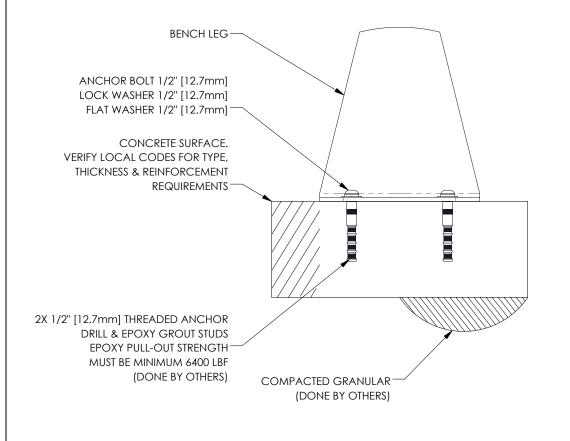
BENCH TYPICAL ANCHORING STEPS (DONE BY OTHERS):

- PLACE BENCH ON POST BRACKET. 1.
- 2. MARK ON CONCRETE FOOTING OR SLAB, THE BENCH LEG ANCHORING HOLES' POSITIONS.
- 3. REMOVE BENCH.

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- 4. DRILL ON HOLES' MARKINGS WITH 3/4" DRILL BIT SIZE.
- 5. CLEAN THE DRILLED HOLES.
- PUT ANCHORS IN HOLES WITH EPOXY (EPOXY ANCHORING ADHESIVE 6. PULL-OUT STRENGTH MUST BE MINIMUM 6400 LBF)
- 7. WAIT FOR EPOXY'S CURING TIME
- 8. ASSEMBLE THE BENCH AS PER VORTEX' ASSEMBLY GUIDE.

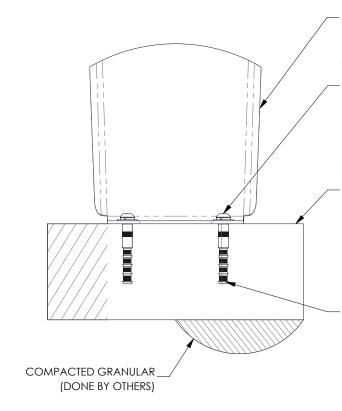
BENCH TYPICAL ANCHORING DETAIL



RIVER MAZE TYPICAL ANCHORING STEPS (DONE BY OTHERS):

- ASSEMBLE RIVER MAZE ON POST, USING SUPPLIED HARDWARE. 1.
- MARK ON CONCRETE FOOTING OR SLAB, THE RIVER MAZE LEG ANCHORING HOLES' 2. POSITIONS.
- REMOVE RIVER MAZE. 3.
- DRILL ON HOLES' MARKINGS WITH 3/4" DRILL BIT SIZE. 4.
- CLEAN THE DRILLED HOLES. 5.
- PUT ANCHORS IN HOLES WITH EPOXY (EPOXY ANCHORING ADHESIVE 6. PULL-OUT STRENGTH MUST BE MINIMUM 6400 LBF)
- WAIT FOR EPOXY'S CURING TIME 7.
- ASSEMBLE THE RIVER MAZE AS PER VORTEX' ASSEMBLY GUIDE. 8.

RIVER MAZE TYPICAL ANCHORING DETAIL



-RIVER MAZE BODY

ANCHOR BOLT 1/2" [12.7mm] LOCK WASHER 1/2" [12.7mm] FLAT WASHER 1/2" [12.7mm]

CONCRETE SURFACE. VERIFY LOCAL CODES FOR TYPE, THICKNESS & REINFORCEMENT REQUIREMENTS

2X 1/2" [12.7mm] THREADED ANCHOR DRILL & EPOXY GROUT STUDS EPOXY PULL-OUT STRENGTH MUST BE MINIMUM 6400 LBF (DONE BY OTHERS)

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