PLAN VIEW

WATER FEATURE OPTIONS:

2. 1X MIST + 2X RIVER MAZE

3. 1X SOFT RAIN + 1X MIST

1. 1X SOFT RAIN + 2X RIVER MAZE

VOR3501

VOR3501B

2. 2X MIST

1. 2X SOFT RAIN

GENERAL NOTES:

- 1) "BY OTHERS" MAY REFER TO SERVICE PROVIDERS OTHER THAN THE EQUIPMENT MANUFACTURER. PLEASE REFER TO PROJECT SPECIFICATION FOR DETAILS OF RESPONSIBILITY.
- 2) PIPE LOCATIONS ARE APPROXIMATE AND SUBJECT TO CHANGE.
- 3) USE ANTI-SEIZE ON ALL THREADS.
- 4) DRAINAGE SOLUTIONS ARE OPTIONAL AND UNDER THE RESPONSABILITY OF THE INSTALLER.
- 5) ABRIO PRODUCTS ARE ASSEMBLED ON-SITE BY INSTALLER. REFER TO ASSEMBLY GUIDE FOR STEP-BY-STEP INSTRUCTIONS.

ELECTRICAL NOTES:

- 1) NO LIVE ELECTRICAL CONNECTION TO BE DONE. SOLAR BATTERY SYSTEM IN OPERATION.
- 2) FAILURE TO FOLLOW VORTEX APPLICATION GUIDELINES, DRAWINGS, WIRING DIAGRAM & CABLE SPECIFICATIONS WILL VOID PRODUCT WARRANTY.
- 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 UNTIL IT'S RECHARGED TO 20% (3-5 SUNNY HOURS).

OPTIMAL SOLAR ORIENTATION (DONE BY OTHERS):

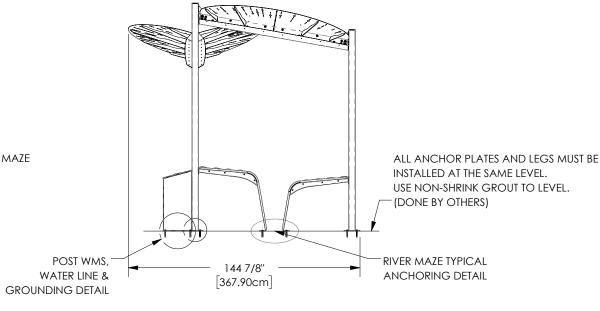
- SOUTH FACING FOR NORTH OF THE EQUATOR
- NORTH FACING FOR SOUTH OF THE EQUATOR
- AVOID SHADOW AREAS FOR INSTALLATION

ABRIO OPTIONS:

WATER FEATURE OPTIONS:

• VOR3501 (WITH RIVER MAZE)

- 1. 1X SOFT RAIN + 2X RIVER MAZE
- 2. 1X MIST + 2X RIVER MAZE
- VOR3501B (WITHOUT RIVER MAZE)
- 1. 2X SOFT RAIN
- 2X MIST
- 3. 1X SOFT RAIN + 1X MIST



FRONT ELEVATION VIEW

144 13/16"

[367.83cm]

142 1/2"

[361.99cm]

POST TYPICAL

ANCHORING DETAIL

SIDE ELEVATION VIEW

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

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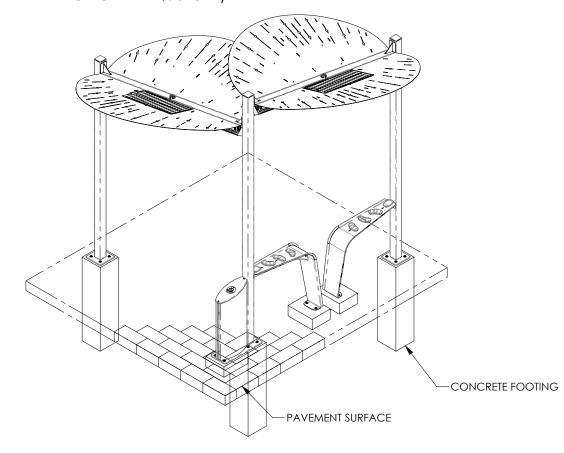
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INSTALLATION OPTIONS

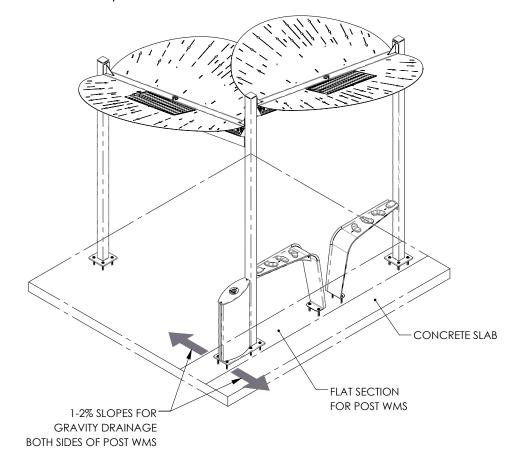
OPTION #1:

PAVEMENT SURFACE WITH CONCRETE FOOTINGS (PERMEABLE OR ON A 1-2% SLOPE)



OPTION #2:

CONCRETE SLAB (ON A 1-2% SLOPE)





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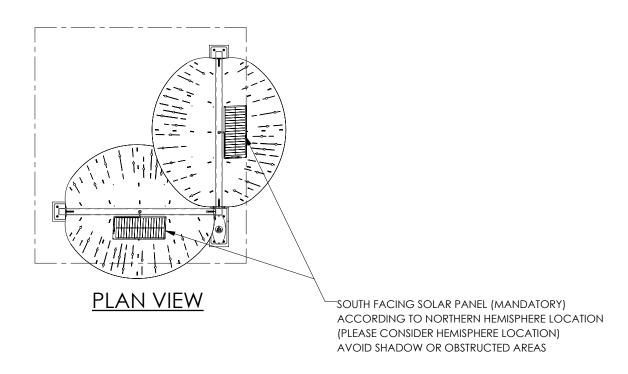
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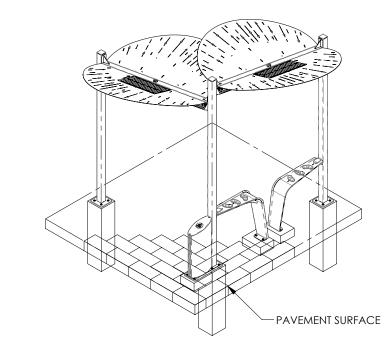
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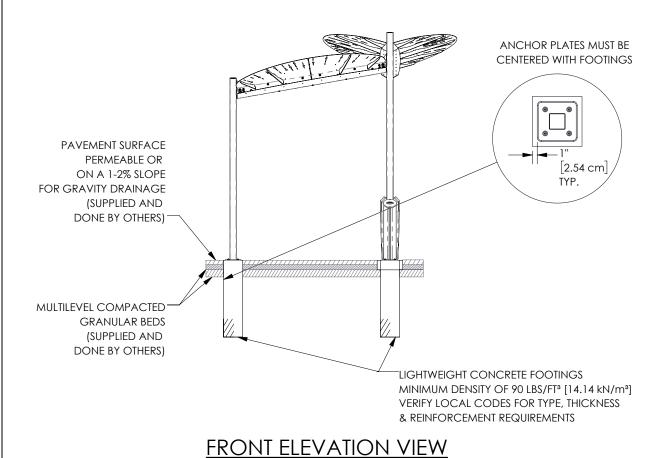
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INSTALLATION OPTION #1: PAVEMENT SURFACE WITH CONCRETE FOOTINGS

REFER TO TYPICAL ANCHORING DETAILS

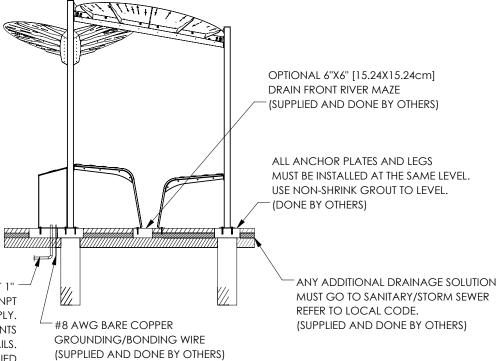






DRINKING WATER LINE INLET 1"

TO 1 1/2" [25.4 TO 38.1mm] NPT
1-2% SLOPE BACK TO WATER SUPPLY.
REFER TO CONSTRUCTION DOCUMENTS
FOR LINE SIZE DETAILS.
(LINE CONNECTION SUPPLIED
AND DONE BY OTHERS)



SIDE ELEVATION VIEW

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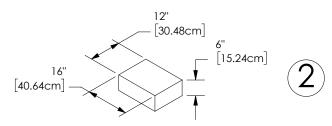
12" [30.48cm] 12" [30.48cm]

POST FOOTING DIMENSIONS & DETAILS

DIMENSIONS MAY VARY, BUT CONCRETE VOLUME

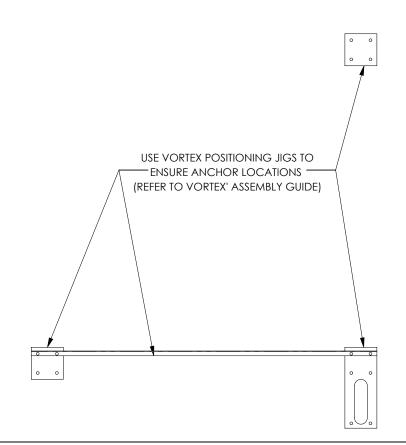
MUST BE MINIMUM 5500 IN³ (3.183 FT³) [0.09 m³]

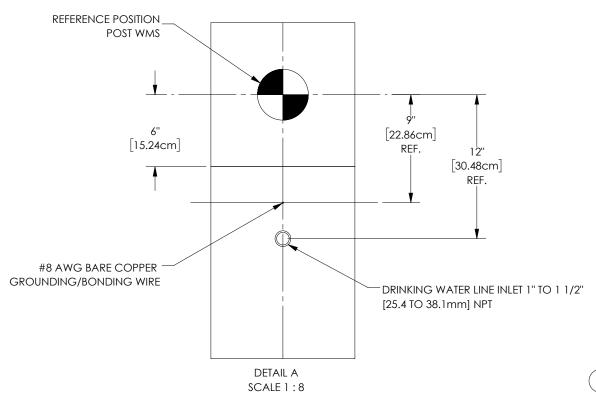
LIGHTWEIGHT CONCRETE OF MINIMUM DENSITY = 90 LBS/FT³ [14.14 kN/m³]

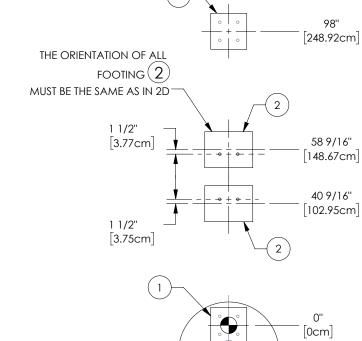


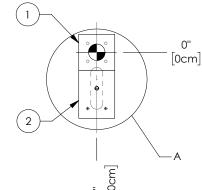
BENCH, RIVER MAZE AND WMS FOOTING DIMENSIONS & DETAILS

*DIMENSIONS MAY VARY, BUT CONCRETE VOLUME
MUST BE MINIMUM 1005 IN3 (0.582 FT3) [0.165 m3]
LIGHTWEIGHT CONCRETE OF MINIMUM DENSITY = 90 LBS/FT3 [14.14 kN/m3]









PLAN VIEW

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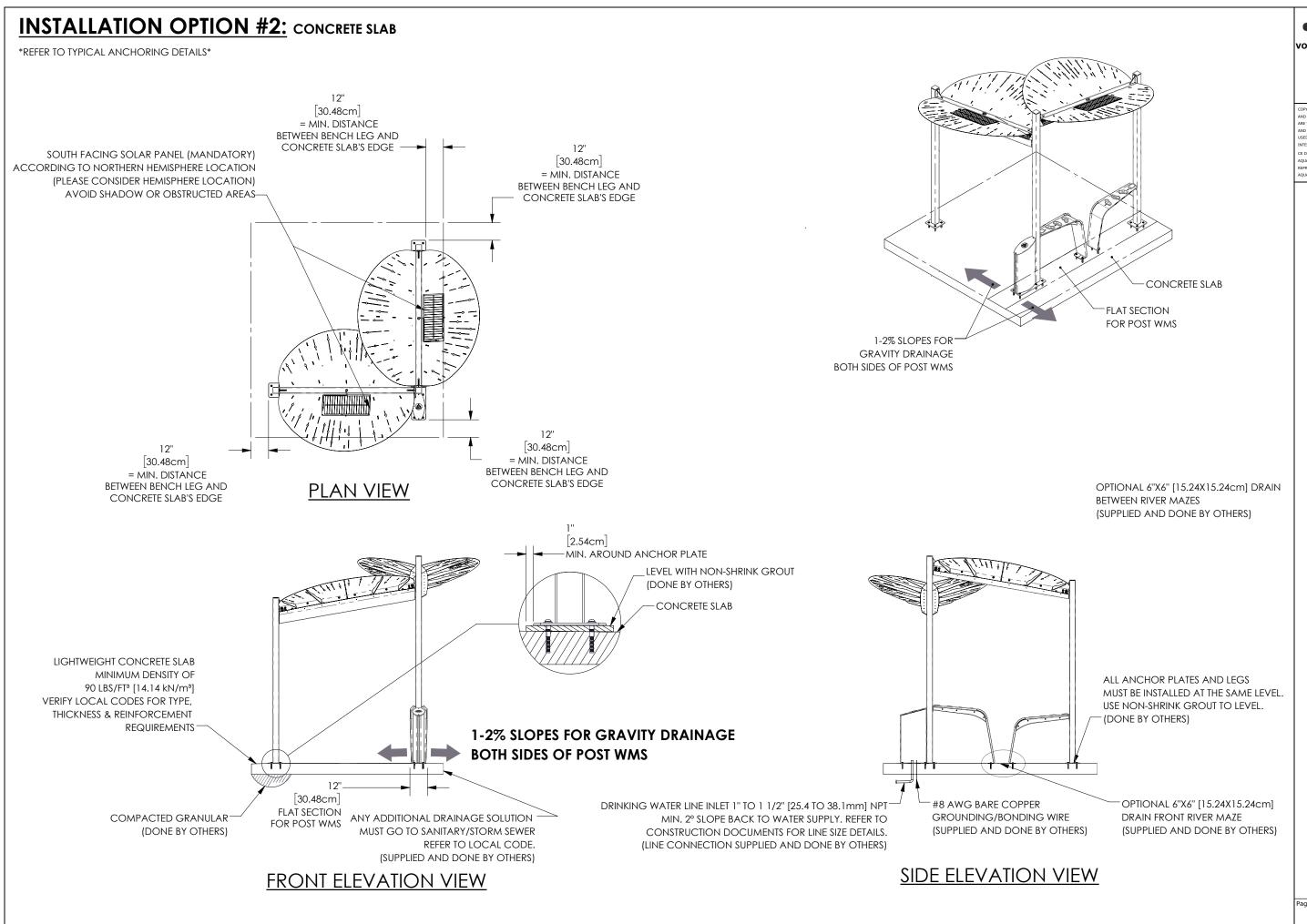
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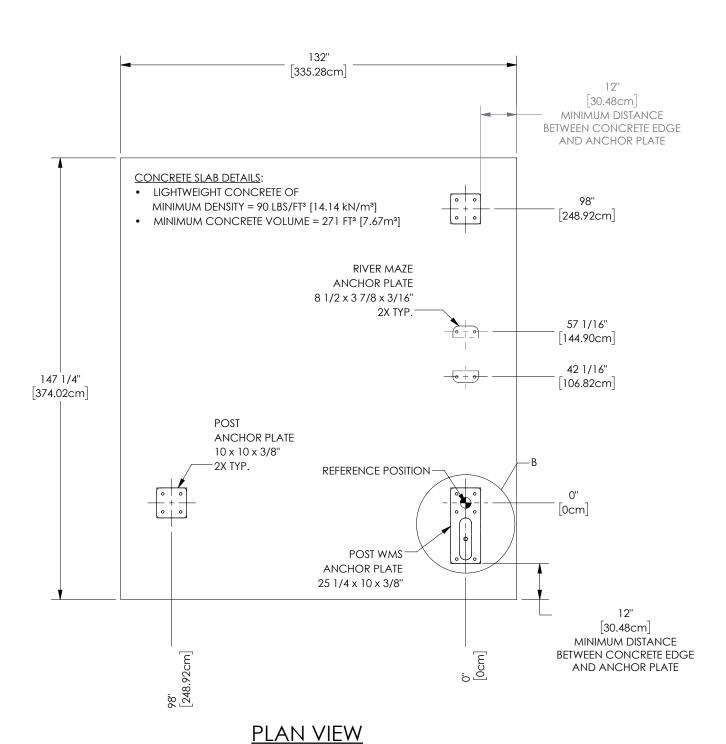
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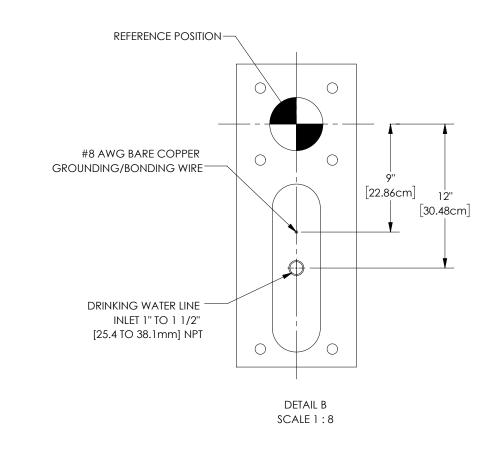
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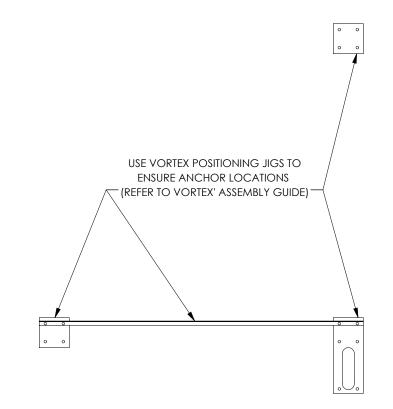
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INSTALLATION OPTION #2: CONCRETE SLAB, WATER INLET AND GROUNDING WIRE POSITIONING









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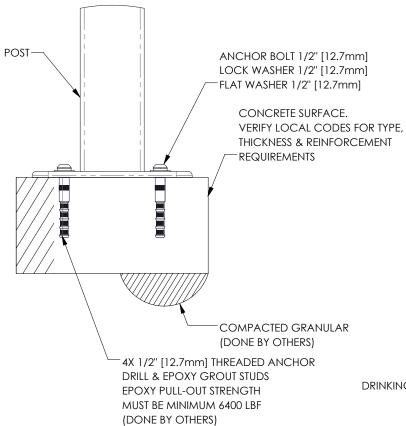
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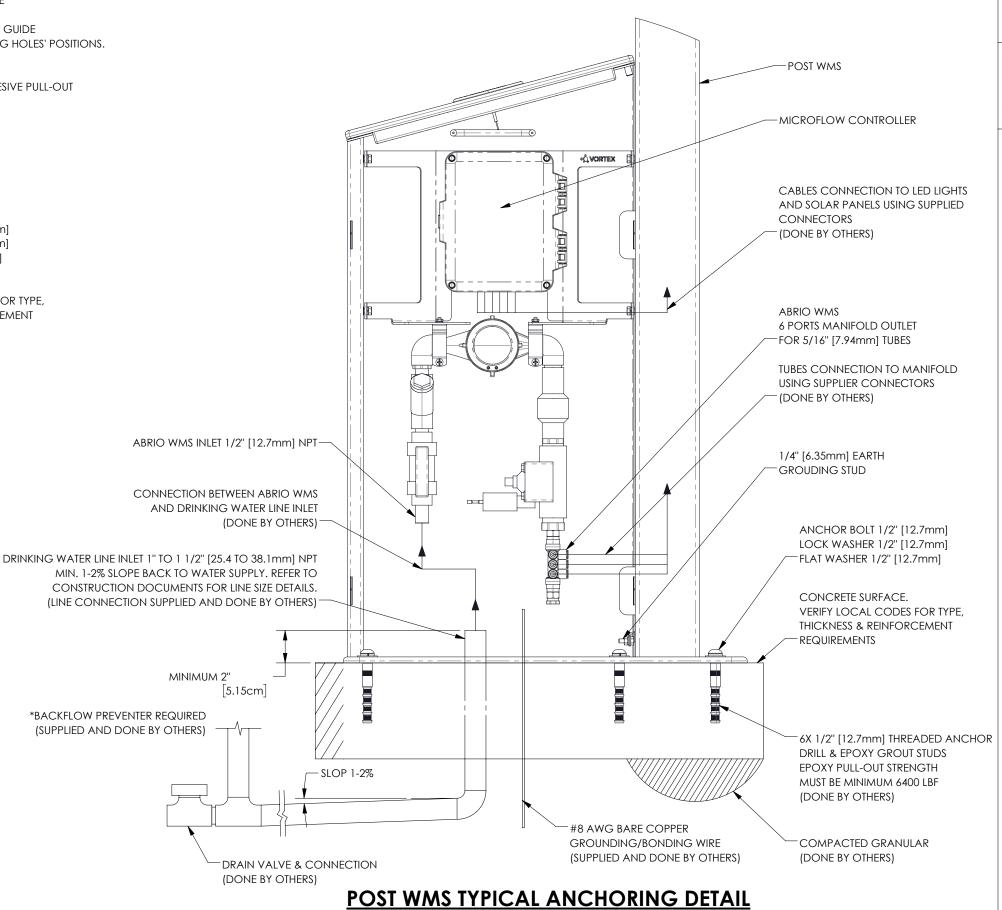
POSTS TYPICAL ANCHORING STEPS (DONE BY OTHERS)

REFER TO ANCHORING POSITIONS PAGE AND VORTEX' ASSEMBLY GUIDE

- 1. PLACE ANCHORING JIGS AS DETAILED IN THE VORTEX' ASSEMBLY GUIDE
- 2. MARK ON CONCRETE FOOTING OR SLAB, THE POST'S ANCHORING HOLES' POSITIONS.
- 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 PULL-OUT STRENGTH MUST BE MINIMUM 6400 LBF)
- 6. WAIT FOR EPOXY'S CURING TIME
- 7. ASSEMBLE THE POSTS AS PER VORTEX' ASSEMBLY GUIDE.



POST TYPICAL ANCHORING DETAIL



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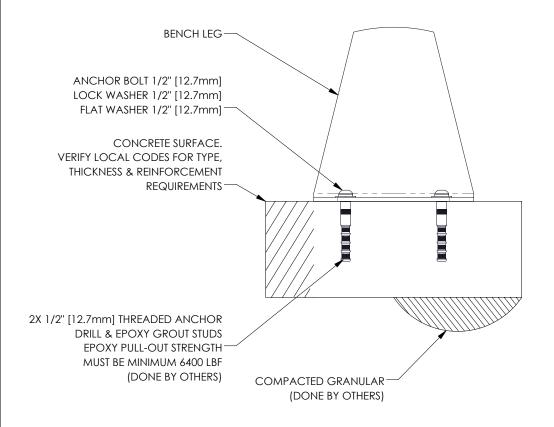
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BENCH TYPICAL ANCHORING STEPS (DONE BY OTHERS):

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

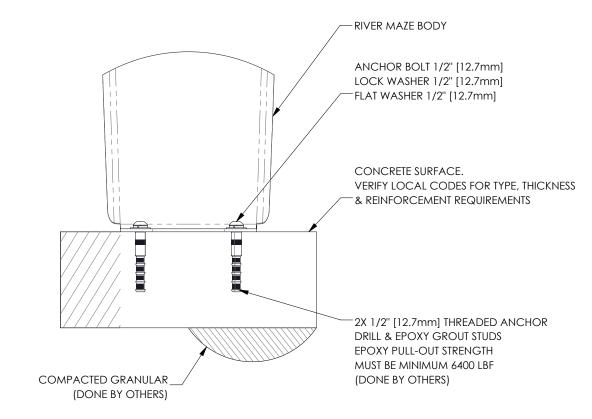
BENCH TYPICAL ANCHORING DETAIL



RIVER MAZE TYPICAL ANCHORING STEPS (DONE BY OTHERS):

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

RIVER MAZE TYPICAL ANCHORING DETAIL





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