

MOSAIC BATTEN ASSEMBLY DETAILS

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- C3 - BATTEN 2" EXTENSION COMBINATION COMPONENTS
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- E2 - BATTEN FLAT END CAP INSTALL DETAIL
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2" ASSEMBLED BATTENS

BATTEN TO WALL FRAMING (NO BRACKET)

- D2.01 - 2"X2" ASSEMBLY (*VERTICAL OR HORIZONTAL*)
- D2.02 - 2"X8" ASSEMBLY (*VERTICAL OR HORIZONTAL*)

BATTEN @ TRELLIS (NO BRACKET)

- D2.10 - 2"X2" ASSEMBLY (*ABOVE SUPPORT MEMBER*)
- D2.11 - 2"X8" ASSEMBLY (*ABOVE SUPPORT MEMBER*)
- D2.12 - 2"X2" ASSEMBLY (*BELOW SUPPORT MEMBER*)
- D2.13 - 2"X8" ASSEMBLY (*BELOW SUPPORT MEMBER*)

BATTEN TO WALL FRAMING (L-BRACKET)

- BLH-D2.01 - 2"X10" ASSEMBLY (*VERTICAL OR HORIZONTAL*)
- BLH-D2.02 - 2"X16" ASSEMBLY (*VERTICAL OR HORIZONTAL*)

BATTEN @ TRELLIS (L-BRACKET)

- BLH-D2.10 - 2"X10" ASSEMBLY (*ABOVE SUPPORT MEMBER*)
- BLH-D2.11 - 2"X16" ASSEMBLY (*ABOVE SUPPORT MEMBER*)
- BLH-D2.12 - 2"X10" ASSEMBLY (*BELOW SUPPORT MEMBER*)
- BLH-D2.13 - 2"X16" ASSEMBLY (*BELOW SUPPORT MEMBER*)

BATTEN @ BASE AND CEILING (L-BRACKET)

- BLH-D2.20 - 2"X10" ASSEMBLY (*BASE*)
- BLH-D2.21 - 2"X16" ASSEMBLY (*BASE*)
- BLH-D2.22 - 2"X10" ASSEMBLY (*CEILING*)
- BLH-D2.23 - 2"X16" ASSEMBLY (*CEILING*)

MOSAIC BATTEN ASSEMBLY DETAILS

ADDITIONAL ASSEMBLED BATTENS

BATTEN TO WALL FRAMING (NO BRACKET)

D4.01 - 4"X2" ASSEMBLY (*VERTICAL OR HORIZONTAL*)

BATTEN @ TRELLIS (NO BRACKET)

D4.10 - 4"X2" ASSEMBLY (*ABOVE SUPPORT MEMBER*)

D4.11 - 4"X2" ASSEMBLY (*BELOW SUPPORT MEMBER*)

BATTEN TO WALL FRAMING (NO BRACKET)

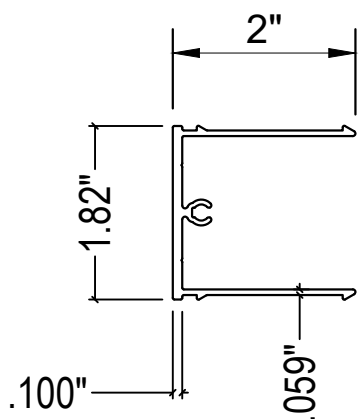
D6.01 - 6"X1" ASSEMBLY (*VERTICAL OR HORIZONTAL*)

BATTEN @ TRELLIS (NO BRACKET)

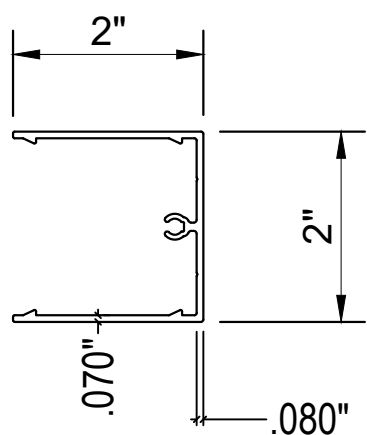
D6.10 - 6"X1" ASSEMBLY (*ABOVE SUPPORT MEMBER*)

D6.11 - 6"X1" ASSEMBLY (*BELOW SUPPORT MEMBER*)

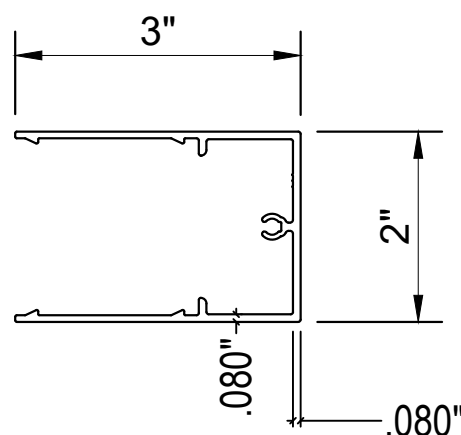
MOSAIC 2" BATTEN ASSEMBLY COMPONENTS



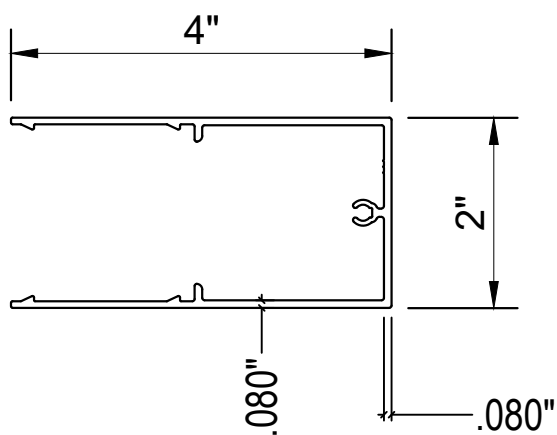
MOSAIC BATTEN BASE 2"



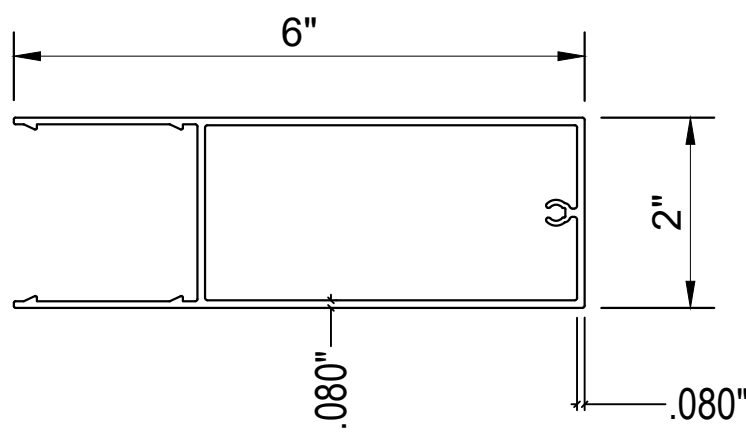
MOSAIC BATTEN CAP 2"X2"



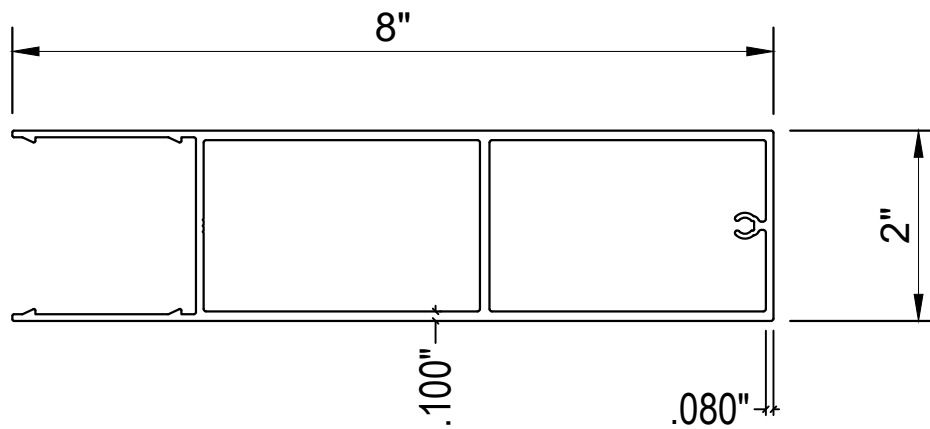
MOSAIC BATTEN CAP 2"X3"



MOSAIC BATTEN CAP 2"X4"

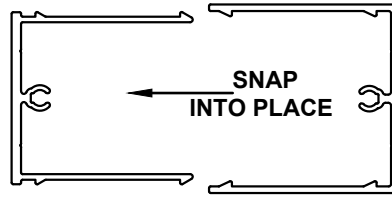
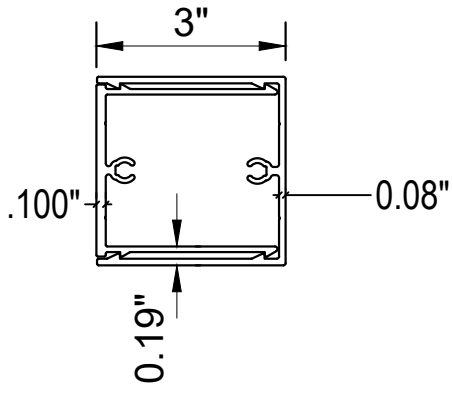


MOSAIC BATTEN CAP 2"X6"

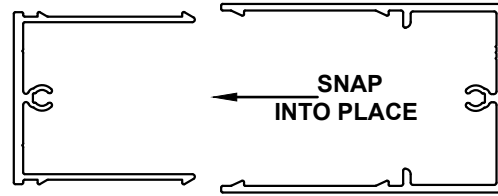
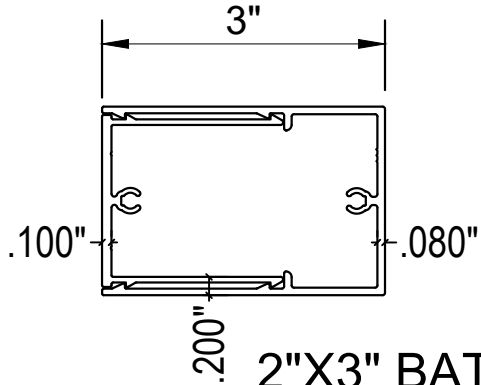


MOSAIC BATTEN CAP 2"X8"

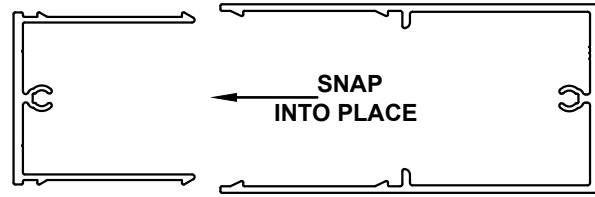
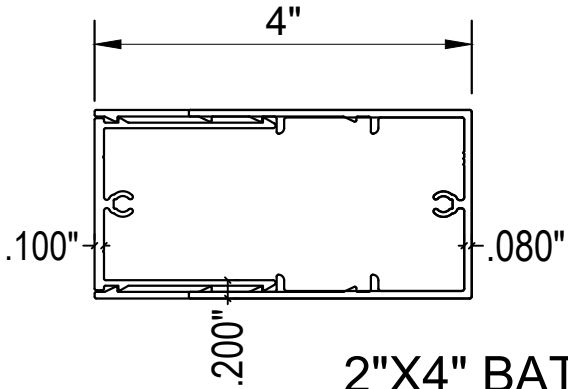
MOSAIC 2" BATTEN ASSEMBLIES



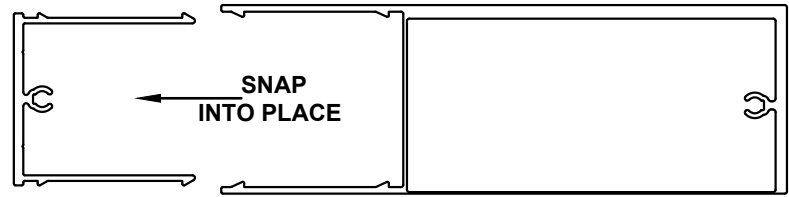
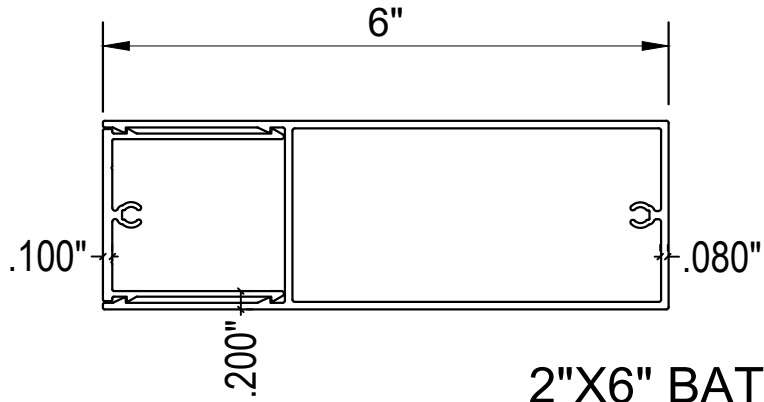
2"X2" BATTEN ASSEMBLY



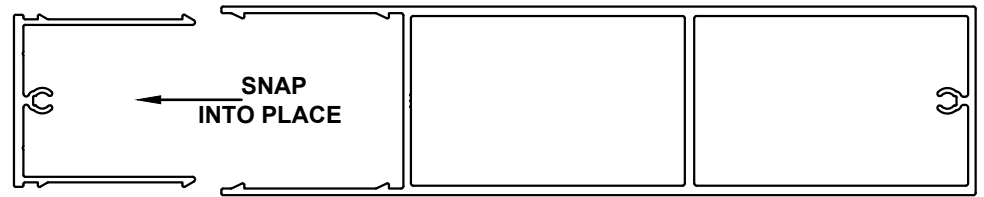
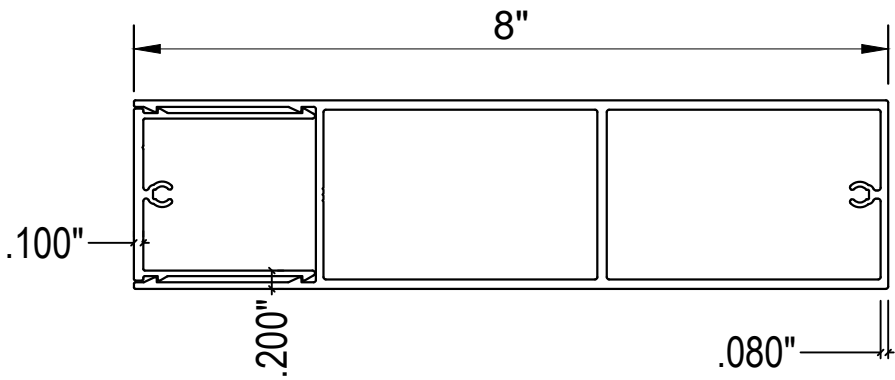
2"X3" BATTEN ASSEMBLY



2"X4" BATTEN ASSEMBLY

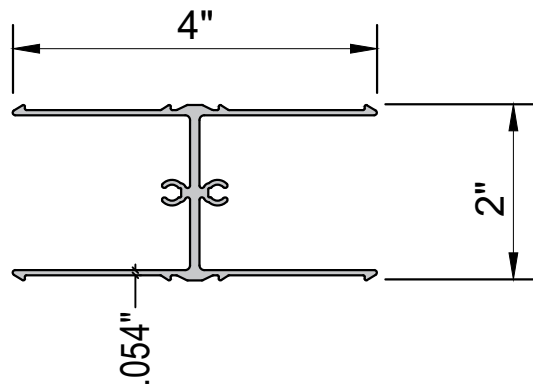


2"X6" BATTEN ASSEMBLY

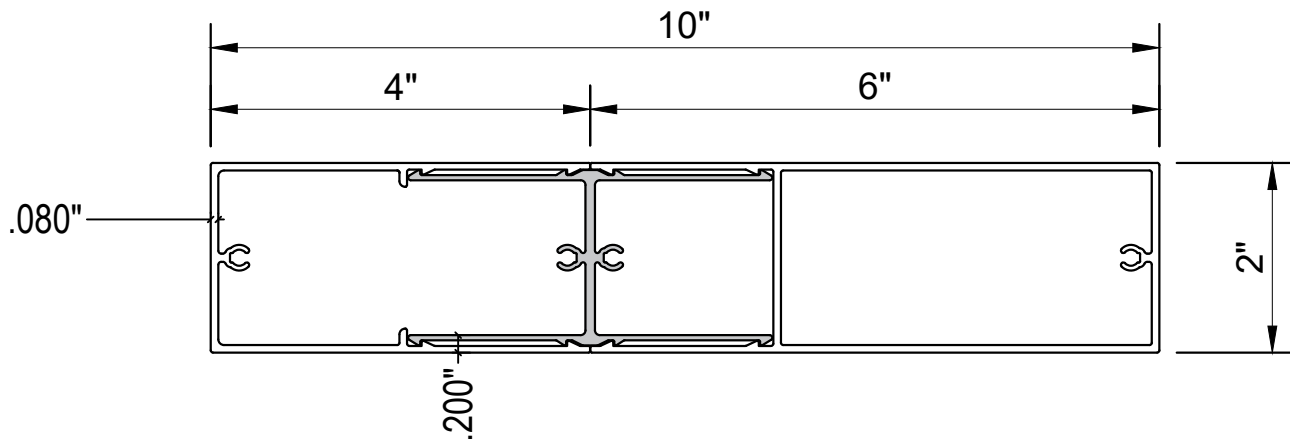


2"X8" BATTEN ASSEMBLY

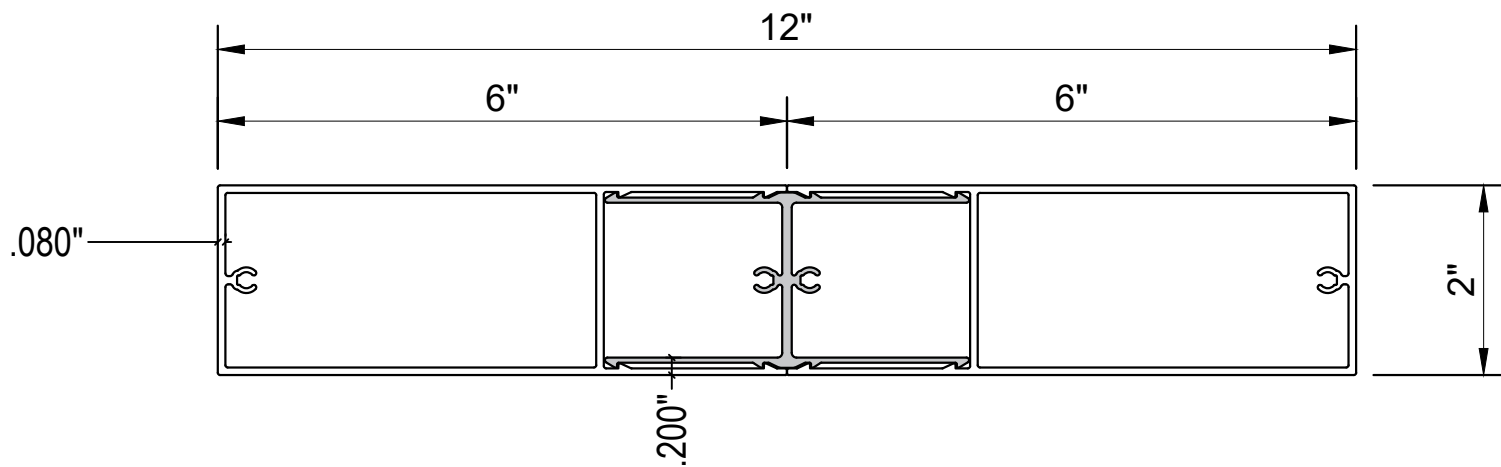
MOSAIC 2" BATTEN ASSEMBLIES WITH EXTENSION



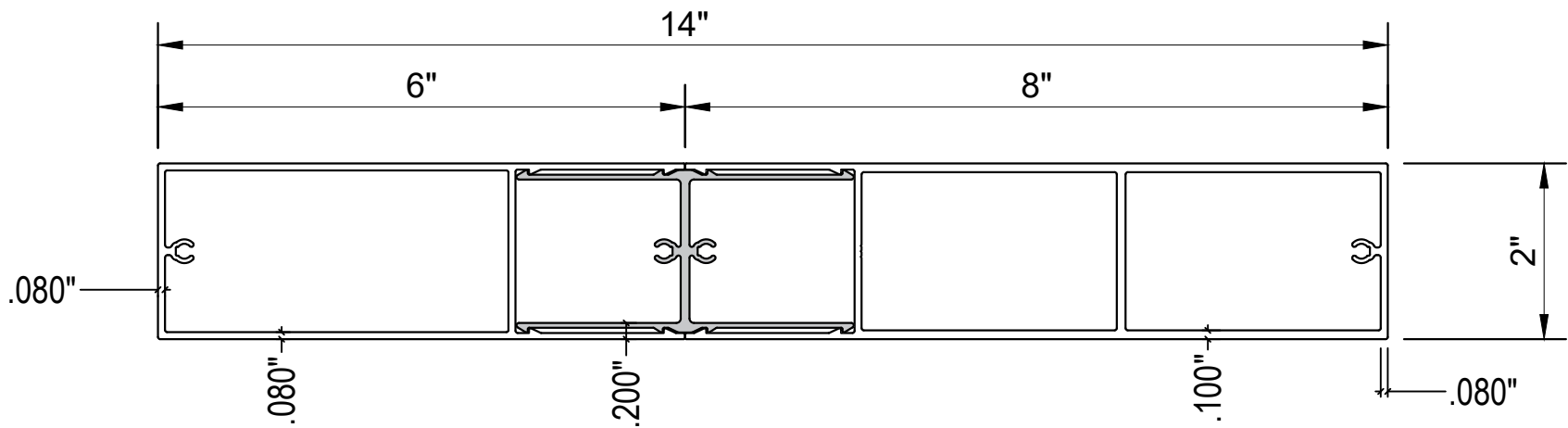
MOSAIC BATTEN EXTENSION 2"



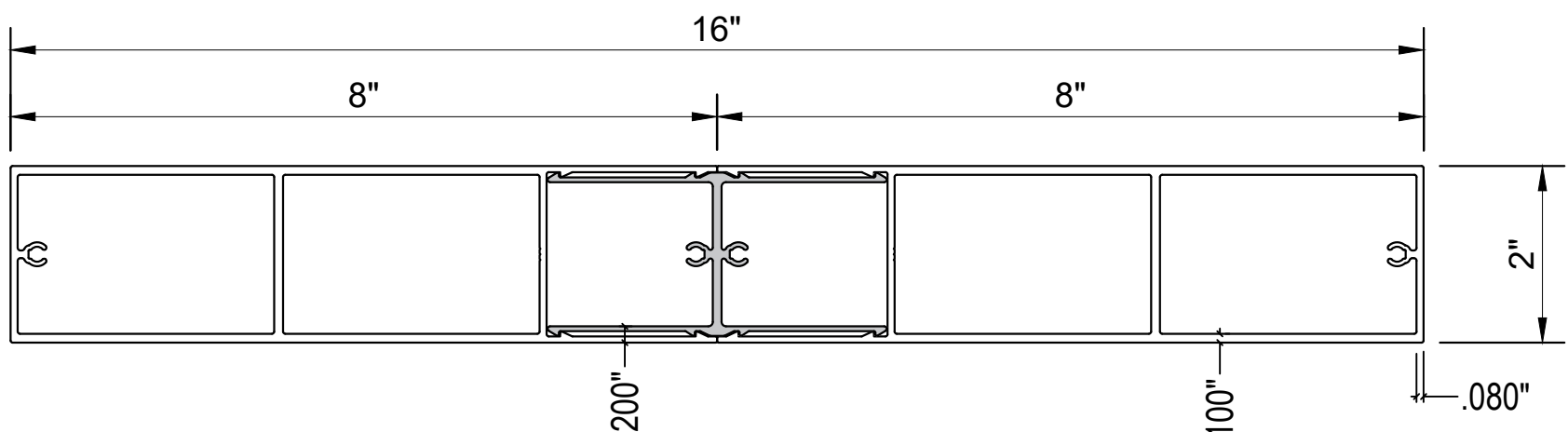
MOSAIC BATTEN ASSEMBLY: (2"X4") + (2"X6") = (2"X10")



MOSAIC BATTEN ASSEMBLY: (2"X6") + (2"X6") = (2"X12")

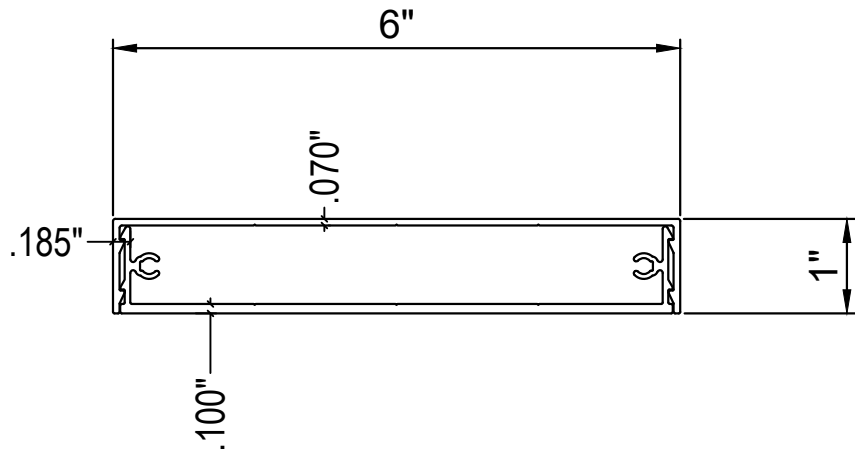


MOSAIC BATTEN ASSEMBLY: (2"X6") + (2"X8") = (2"X14")



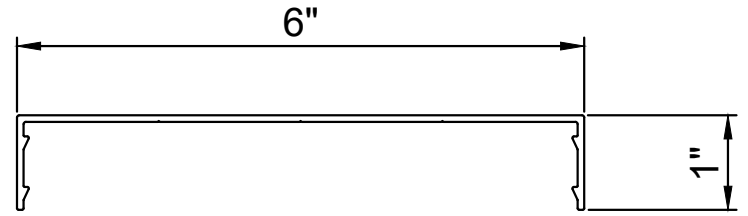
MOSAIC BATTEN ASSEMBLY: (2"X8") + (2"X8") = (2"X16")

ADDITIONAL MOSAIC BATTEN ASSEMBLIES

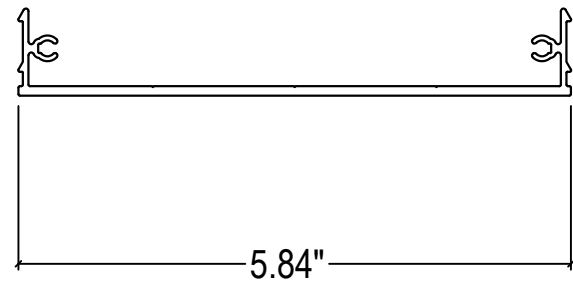


6"X1" BATTEN ASSEMBLY

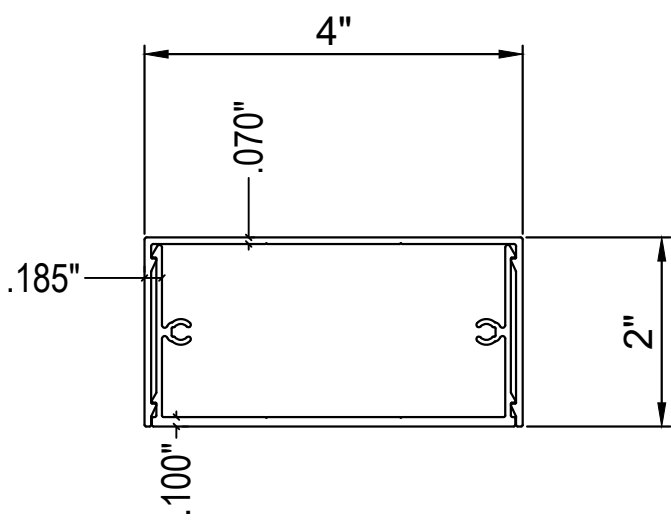
6"X1" BATTEN CAP



SNAP
INTO PLACE

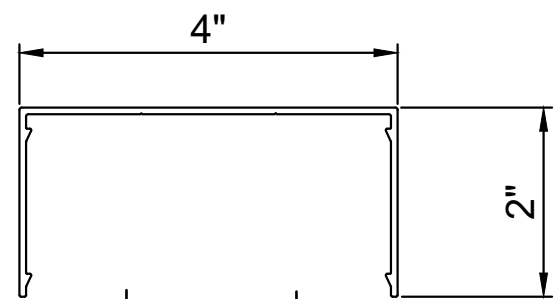


6"X1" BATTEN BASE

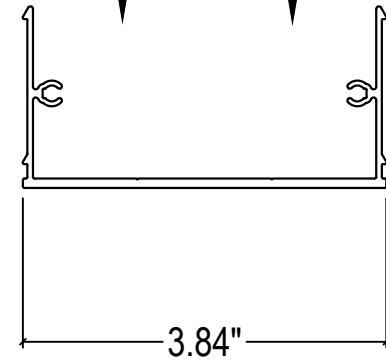


4"X2" BATTEN ASSEMBLY

4"X2" BATTEN CAP

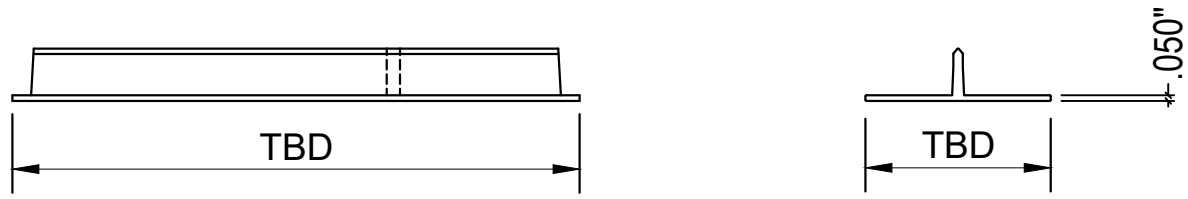


SNAP
INTO PLACE



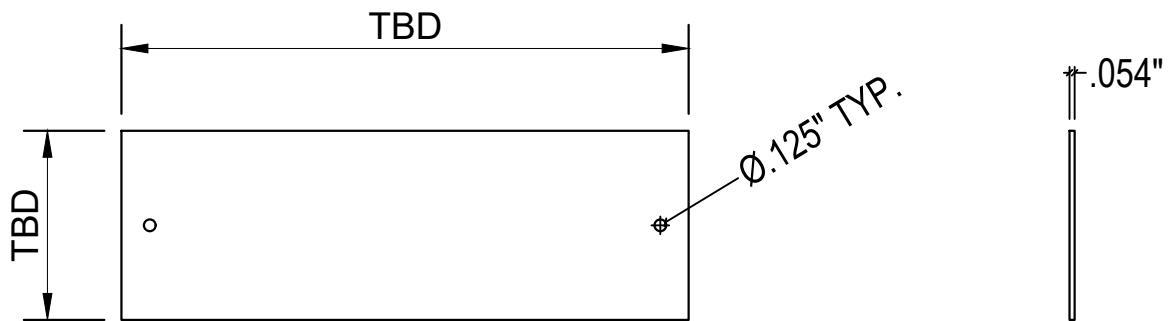
4"X2" BATTEN BASE

MOSAIC END CAPS AND BRACKETS



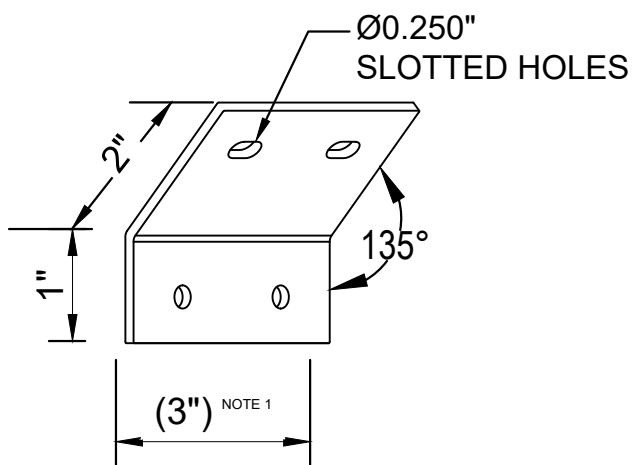
BATTEN T-END CAP

BATTEN T-END CAPS AVAILABLE IN:
1"x (UP TO 8" LG.), 2"x (UP TO 16" LG.), 4"x(UP TO 12" LG.)

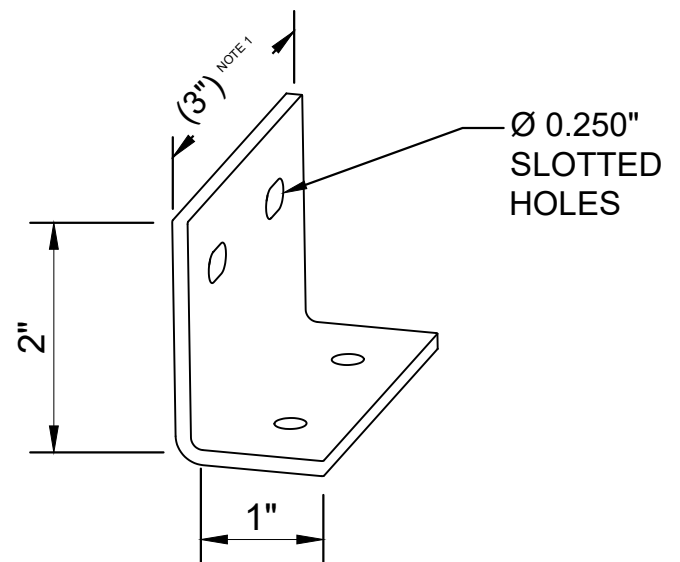


BATTEN FLAT END CAP

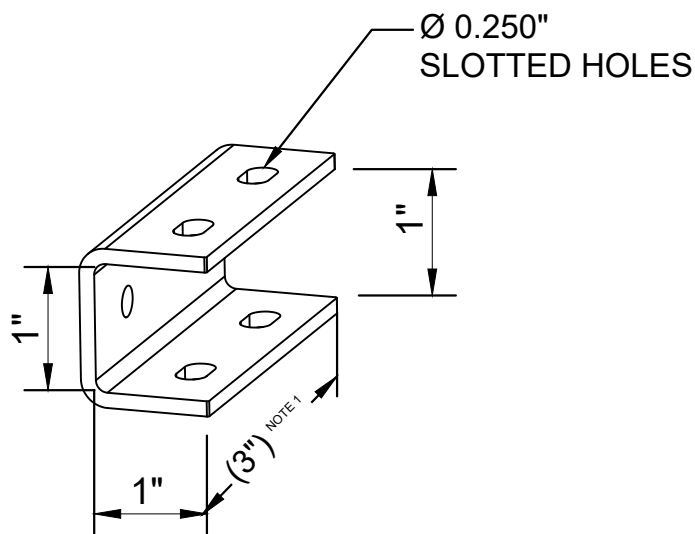
BATTEN T-END CAPS AVAILABLE IN:
1"x (UP TO 8" LG.), 2"x (UP TO 16" LG.), 4"x(UP TO 12" LG.)



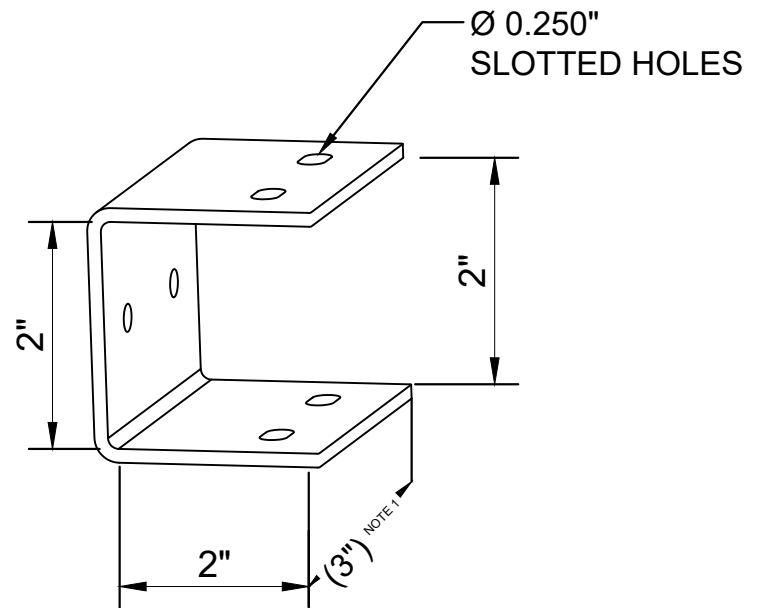
MOSAIC ANGLE BRACKET .125 ALUMINUM



MOSAIC L-BRACKET .125 ALUMINUM



MOSAIC 1" U-BRACKET .125 ALUMINUM

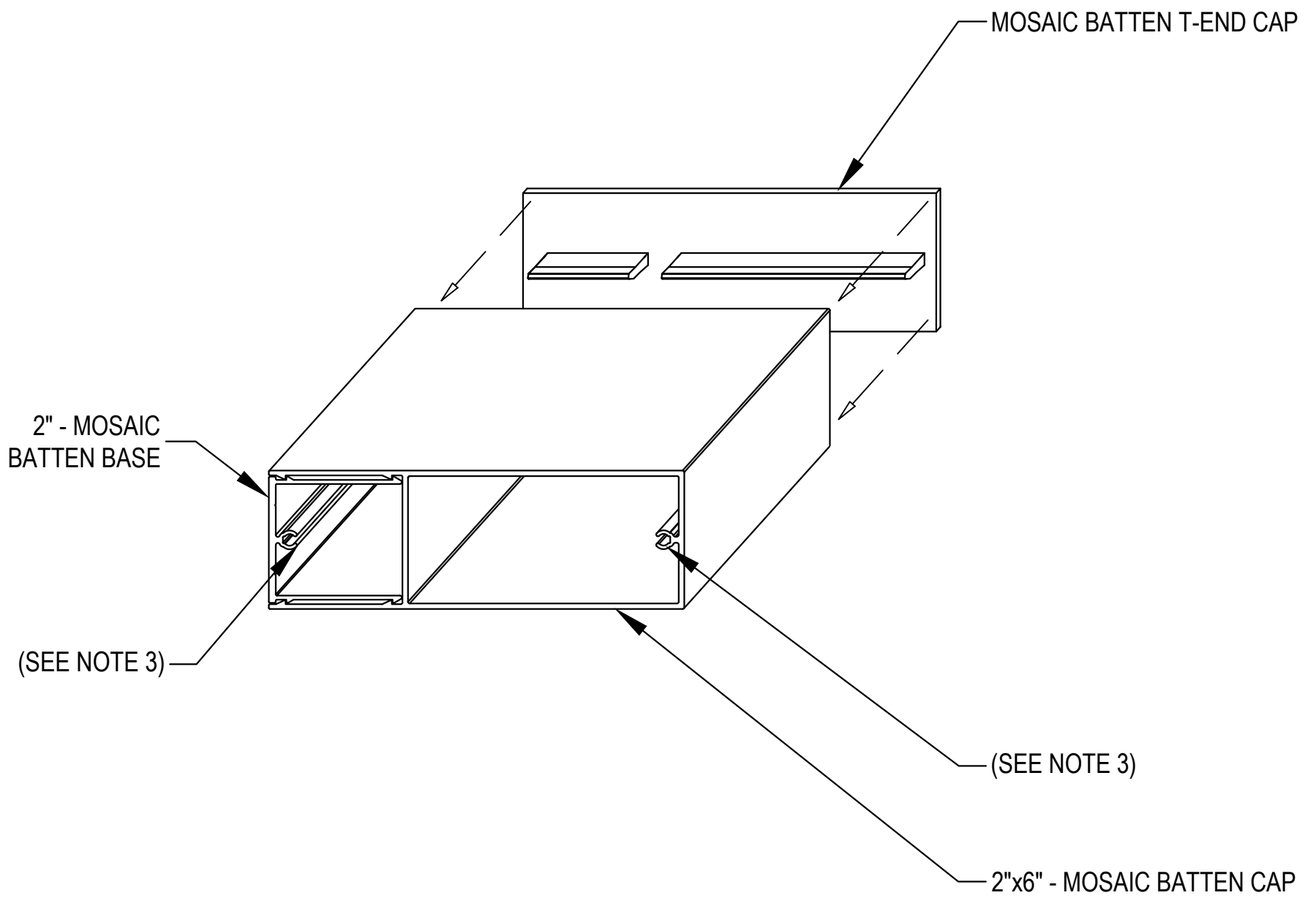


MOSAIC 2" U-BRACKET .125 ALUMINUM

NOTES

1. ADDITIONAL BRACKET LENGTHS AVAILABLE.

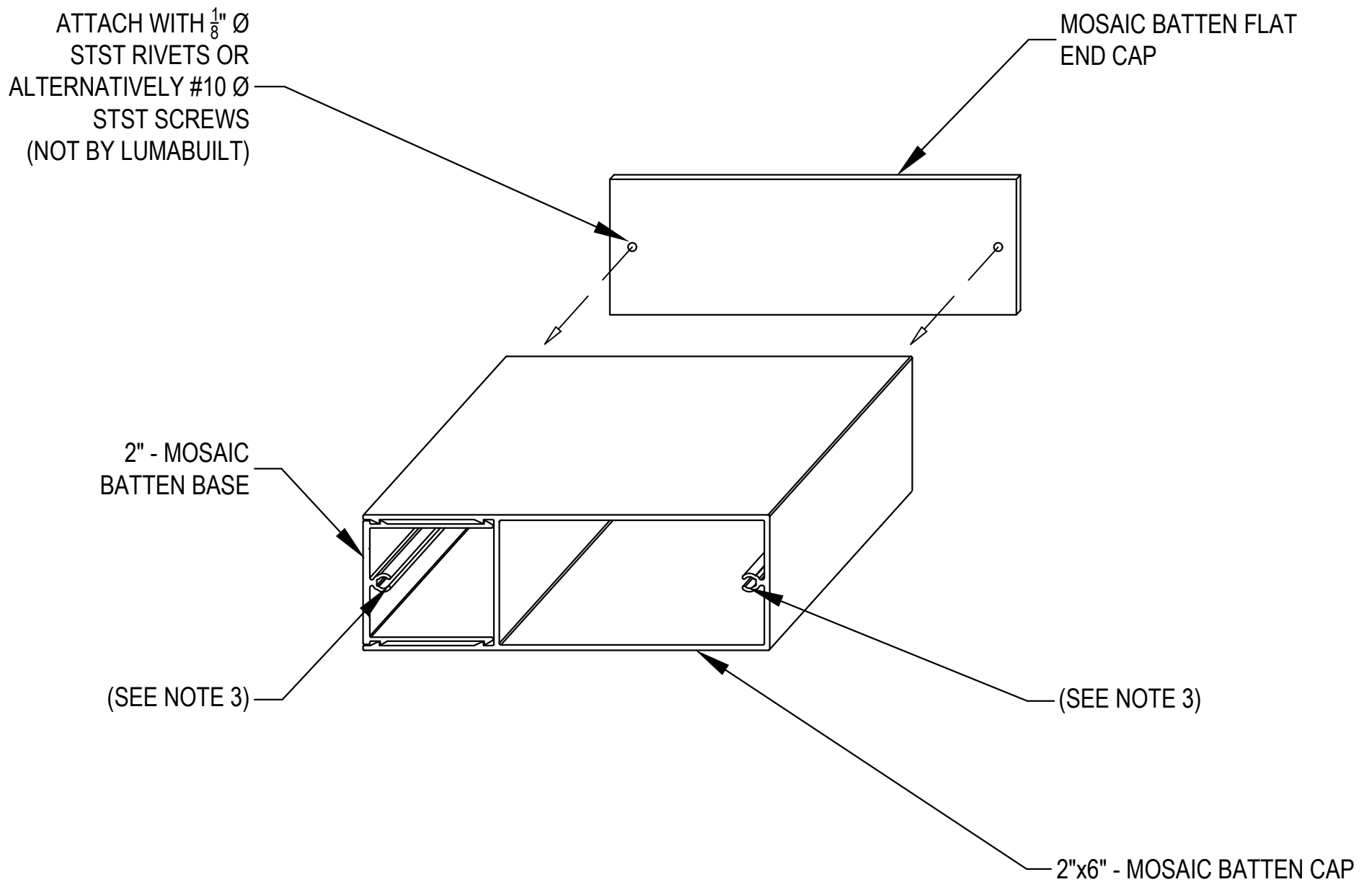
MOSAIC BATTEN T-END CAP



NOTES

1. ADDITIONAL BATTEN SIZES/TYPES AVAILABLE.
2. ENSURE THE EXTRUSION(S) ARE CUT SQUARE TO ACCOMMODATE END CAP. REMOVE ALL BURRS.
3. APPLY A SMALL DROP OF CLEAR SILICON IN EACH SCREW BOSS LOCATION, WHERE END CAP WILL BE INSERTED, JUST PRIOR TO INSERTING THE PRE-CUT END CAP.
4. A RUBBER Mallet IS RECOMMENDED TO SEAT THE CAP INTO PLACE.

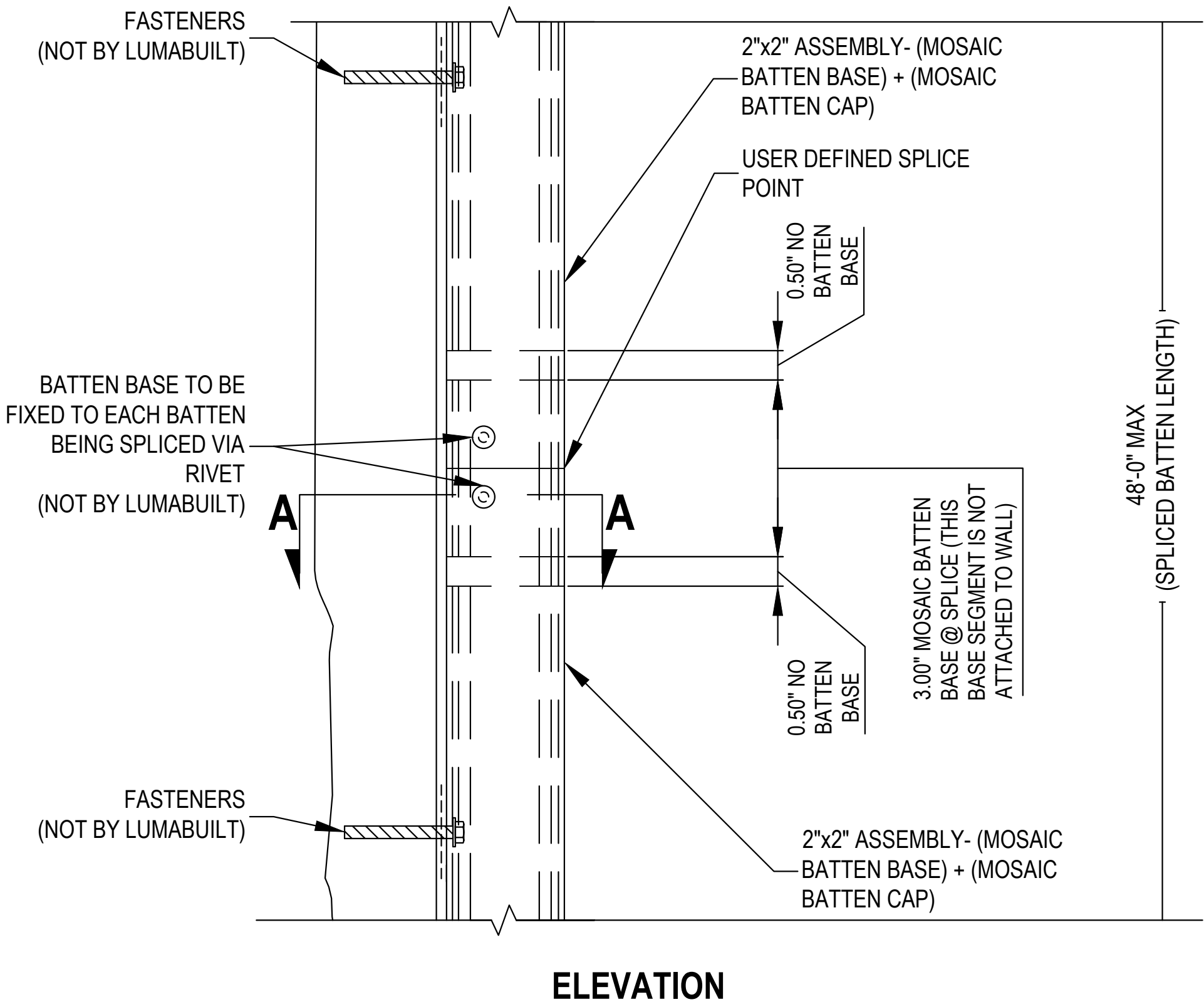
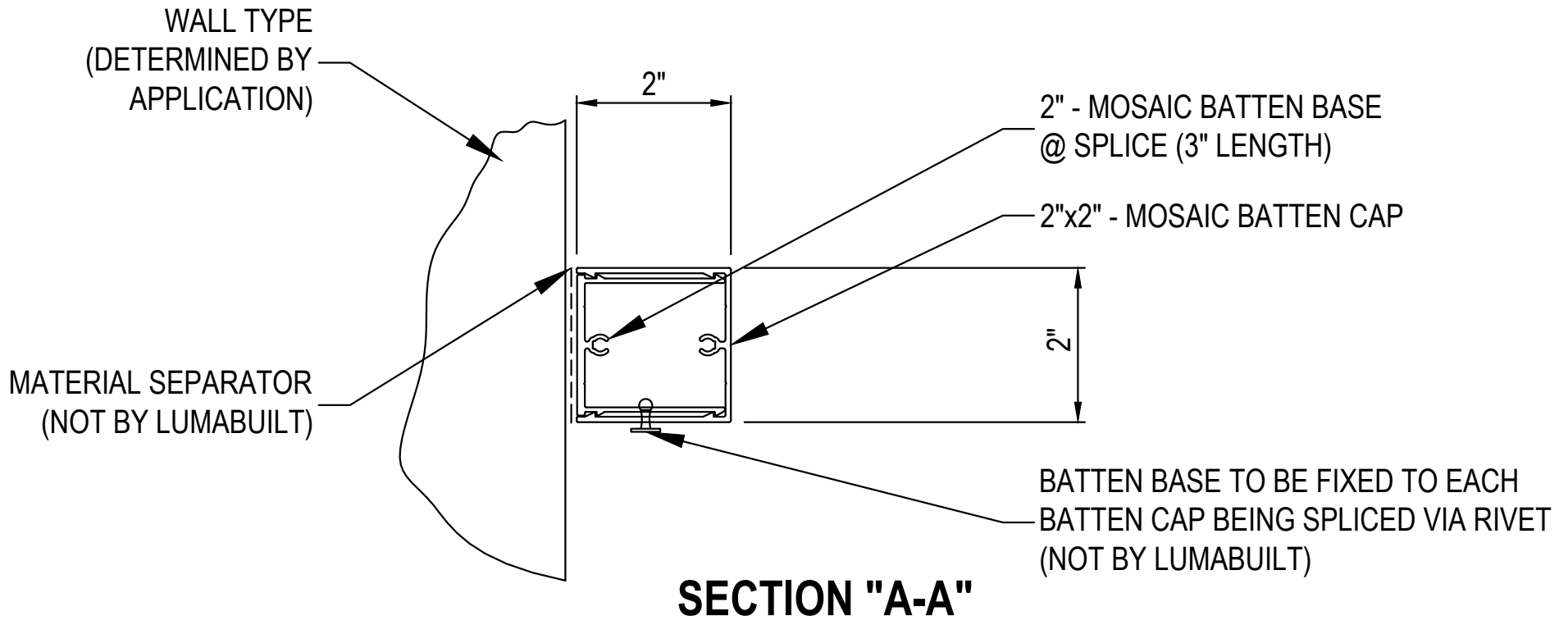
MOSAIC BATTEN FLAT END CAP



NOTES

1. ADDITIONAL BATTEN SIZES/TYPES AVAILABLE.
2. ENSURE THE EXTRUSION(S) ARE CUT SQUARE TO ACCOMMODATE END CAP. REMOVE ALL BURRS.
3. APPLY A SMALL DROP OF CLEAR SILICON IN EACH SCREW BOSS LOCATION, WHERE END CAP WILL BE INSERTED, JUST PRIOR TO INSTALLING THE PRE-CUT END CAP.

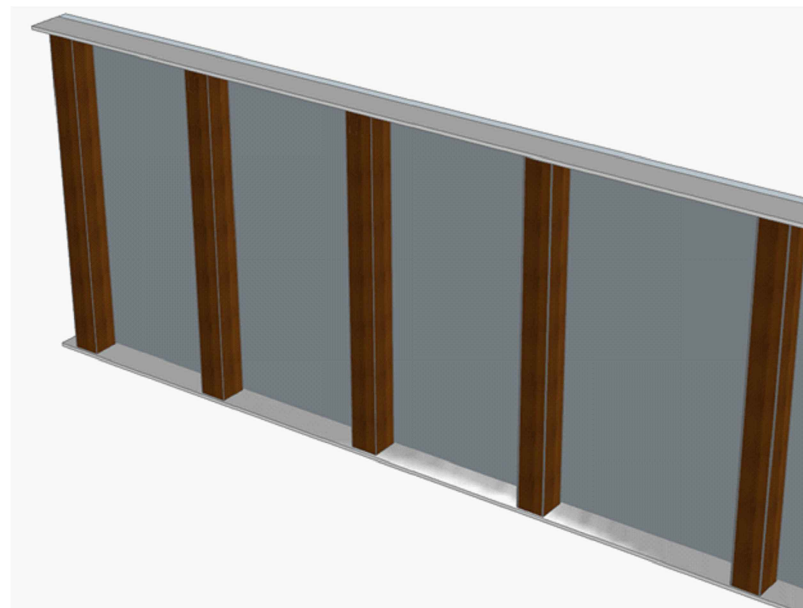
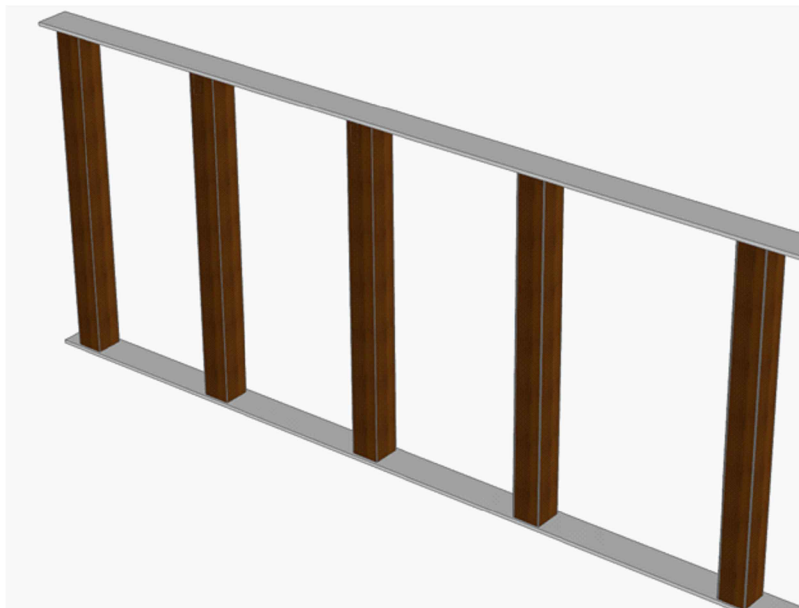
MOSAIC BATTEN SPLICE INSTRUCTIONS (IF BATTEN LENGTH > 24 FEET)



NOTES

1. A BATTEN NEEDS TO BE COMPLETELY INSTALLED BEFORE INSTALLING THE ADJACENT BATTEN.
2. IT IS RECOMMENDED TO PAINT INSTALLED RIVETS WITH A TOUCH UP PEN.

SPAN ANCHORAGE TABLE - INFORMATION



OPEN FRAMING (NO SHEATHING BACKER)

CLOSED FRAMING (SHEATHING BACKER)

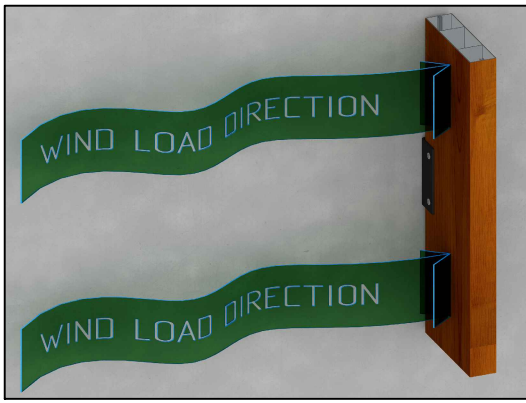


NOTES

1. FOR OPEN SYSTEMS (NO WALL SHEATHING) DIVIDE THE ALLOWABLE WIND LOAD CAPACITY BY 2. THE REACTION FORCES REMAIN THE SAME FOR BOTH OPEN AND CLOSED SYSTEMS.
2. EACH BRACKET TO SUBSTRATE CONNECTION REQUIRES 2 FASTENERS AT EACH ANCHORAGE POINT.
 - 2.1. **#12-14 STST SCREW USED FOR ANCHORAGE INTO 18 GAUGE STEEL, GRADE 33 (45 KSI)**
 - 2.2. **#8 WOOD SCREW USED FOR ANCHORAGE INTO 1/2" PLYWOOD**
 - 2.2.1. TO SUBSTITUTE WITH #12 STST WOOD SCREW, MULTIPLY VALUE BY 1.31
 - 2.2.2. TO SUBSTITUTE WITH 3/4" PLYWOOD SUBSTRATE, MULTIPLY VALUE BY 1.50
3. EACH CEE BRACKET TO BATTEN CONNECTION REQUIRES 4 FASTENERS
4. EACH L-BRACKET TO BATTEN CONNECTION REQUIRES 2 FASTENERS
5. MAXIMUM DEFLECTION = $L/180$
6. "N/A" VALUES ARE <16 PSF ALLOWABLE DESIGN PRESSURE
7. DESIGN PRESSURES ARE LIMITED TO 75 PSF
8. SNOW LOADS ARE NOT INCLUDED IN CALCULATIONS
9. FACTOR OF SAFETY OF 3 IS CONSIDERED IN THE CALCULATIONS
10. VERTICAL OR HORIZONTAL ORIENTATION OF BATTENS WILL NOT HAVE AN EFFECT ON THE DEFLECTION VALUES CALCULATED ON THE BATTENS DUE TO LIVE LOADS (WIND). CAPACITY OF THE BATTEN IS VALID FOR BOTH HORIZONTAL AND VERTICAL ORIENTATION INSTALLS.

SPAN ANCHORAGE CHARTS - SINGLE SPAN

SINGLE SPAN ANCHORAGE CHART												
FRAMING: CLOSED WALL FRAMING				SUBSTRATE: 18 GAUGE STEEL				* ATTACHMENT OPTIONS AVAILABLE: L = L-BRACKET U = U-BRACKET A = ANGLE BRACKET DS = BATTEN DIRECT TO SUBSTRATE				
BATTEN TYPE				ALLOWABLE ANCHOR CAPACITY - psf {MEMBER END REACTIONS - lb.}								
MOSAIC 2" BATTEN ASSEMBLY* ^{L, U, A, DS}				SPAN (in.)								
BATTEN SIZE				24	36	48	60	72	84	96	108	120
2X2				75 {13}	75 {19}	75 {25}	75 {31}	75 {38}	75 {44}	75 {50}	75 {56}	75 {63}
2X3				75 {19}	75 {28}	75 {38}	75 {47}	75 {56}	75 {66}	75 {75}	75 {84}	75 {94}
2X4				75 {25}	75 {38}	75 {50}	75 {63}	75 {75}	75 {88}	75 {100}	75 {113}	75 {125}
2X6				75 {38}	75 {56}	75 {75}	75 {94}	75 {113}	75 {131}	75 {150}	75 {169}	75 {173}
2X6 - 45°				75 {31}	75 {47}	75 {63}	75 {78}	75 {94}	75 {109}	75 {125}	75 {141}	75 {156}
2X8				75 {50}	75 {75}	75 {100}	75 {125}	75 {150}	75 {175}	75 {200}	75 {225}	75 {248}
MOSAIC 2" BATTEN ASSEMBLY* ^{L, U, A}				SPAN (in.)								
2X10				75 {63}	75 {94}	75 {125}	75 {156}	75 {188}	75 {219}	74 {248}	66 {248}	60 {248}
2X12				75 {75}	75 {113}	75 {150}	75 {188}	75 {225}	71 {248}	62 {248}	55 {248}	50 {248}
2X12 - 45°				75 {62}	75 {93}	75 {124}	75 {154}	75 {185}	75 {216}	75 {247}	67 {248}	60 {248}
2X14				75 {88}	75 {131}	75 {175}	75 {219}	71 {248}	61 {248}	53 {248}	47 {248}	43 {248}
2X16				75 {100}	75 {150}	75 {200}	74 {248}	62 {248}	53 {248}	47 {248}	41 {248}	37 {248}
MOSAIC BATTEN ASSEMBLY* ^{L, U, A, DS}				SPAN (in.)								
BATTEN SIZE				24	36	48	60	72	84	96	108	120
6X1				75 {38}	75 {56}	75 {75}	75 {94}	61 {92}	39 {67}	26 {52}	18 {41}	N/A
4X2				75 {25}	75 {38}	75 {50}	75 {63}	75 {75}	75 {88}	75 {100}	75 {113}	68 {113}



NOTES

- MEMBER REACTION {lbs} VALUES ARE AT EACH ANCHORAGE POINT.
- FOR OPEN SYSTEMS (NO WALL SHEATHING) DIVIDE THE ALLOWABLE WIND LOAD CAPACITY BY 2. THE REACTION FORCES REMAIN THE SAME FOR BOTH OPEN AND CLOSED SYSTEMS.
- EACH BATTEN TO SUBSTRATE CONNECTION REQUIRES 2 FASTENERS AT EACH ANCHORAGE POINT.
 - #12-14 STST SCREW USED FOR ANCHORAGE INTO 18 GAUGE STEEL, GRADE 33 (45 KSI)**
 - #8 WOOD SCREW USED FOR ANCHORAGE INTO 1/2" PLYWOOD**
 - TO SUBSTITUTE WITH #12 STST WOOD SCREW, MULTIPLY VALUE BY 1.31**
 - TO SUBSTITUTE WITH 3/4" PLYWOOD SUBSTRATE, MULTIPLY VALUE BY 1.50**
- MAXIMUM DEFLECTION = L/180
- "N/A" VALUES ARE <16 PSF ALLOWABLE DESIGN PRESSURE
- DESIGN PRESSURES ARE LIMITED TO 75 PSF
- SNOW LOADS ARE NOT INCLUDED IN CALCULATIONS
- FACTOR OF SAFETY OF 3 IS CONSIDERED IN THE CALCULATIONS
- VERTICAL OR HORIZONTAL ORIENTATION OF BATTENS WILL NOT HAVE AN EFFECT ON THE DEFLECTION VALUES CALCULATED ON THE BATTENS DUE TO LIVE LOADS (WIND). CAPACITY OF THE BATTEN IS VALID FOR BOTH HORIZONTAL AND VERTICAL ORIENTATION INSTALLS.

SPAN ANCHORAGE CHARTS - SINGLE SPAN

SINGLE-SPAN ANCHORAGE CHART										
FRAMING: CLOSED WALL FRAMING	SUBSTRATE: 1/2" PLYWOOD	* ATTACHMENT OPTIONS AVAILABLE: L = L-BRACKET U = U-BRACKET A = ANGLE BRACKET DS = BATTEN DIRECT TO SUBSTRATE								
BATTEN TYPE	ALLOWABLE ANCHOR CAPACITY - psf {MEMBER END REACTIONS - lb.}									
MOSAIC 2" BATTEN ASSEMBLY* ^{L,U,A,DS}	SPAN (in.)									
BATTEN SIZE	24	36	48	60	72	84	96	108	120	
2X2	75 {13}	75 {19}	75 {25}	75 {31}	75 {38}	72 {42}	63 {42}	56 {42}	50 {42}	
2X3	75 {19}	75 {28}	75 {38}	67 {42}	56 {42}	48 {42}	42 {42}	37 {42}	34 {42}	
2X4	75 {25}	75 {38}	63 {42}	50 {42}	42 {42}	36 {42}	32 {42}	28 {42}	25 {42}	
2X6	75 {38}	56 {42}	42 {42}	34 {42}	28 {42}	24 {42}	21 {42}	19 {42}	17 {42}	
2X6 - 45°	75 {31}	67 {42}	50 {42}	40 {42}	34 {42}	29 {42}	25 {42}	22 {42}	20 {42}	
2X8	63 {42}	42 {42}	32 {42}	25 {42}	21 {42}	18 {42}	16 {42}	N/A	N/A	
MOSAIC 2" BATTEN ASSEMBLY* ^{L,U,A}	SPAN (in.)									
2X10	50 {42}	34 {42}	25 {42}	20 {42}	17 {42}	N/A	N/A	N/A	N/A	
2X12	42 {42}	28 {42}	21 {42}	17 {42}	N/A	N/A	N/A	N/A	N/A	
2X12 - 45°	51 {42}	34 {42}	25 {42}	20 {42}	17 {42}	N/A	N/A	N/A	N/A	
2X14	36 {42}	24 {42}	18 {42}	N/A	N/A	N/A	N/A	N/A	N/A	
2X16	32 {42}	21 {42}	16 {42}	N/A	N/A	N/A	N/A	N/A	N/A	
MOSAIC BATTEN ASSEMBLY* ^{L,U,A,DS}	SPAN (in.)									
BATTEN SIZE	24	36	48	60	72	84	96	108	120	
6X1	75 {38}	56 {42}	42 {42}	34 {42}	28 {42}	24 {42}	21 {42}	18 {42}	N/A	
4X2	75 {25}	75 {38}	63 {42}	50 {42}	42 {42}	36 {42}	32 {42}	28 {42}	25 {42}	



NOTES

1. MEMBER REACTION {lbs} VALUES ARE AT EACH ANCHORAGE POINT.
2. FOR OPEN SYSTEMS (NO WALL SHEATHING) DIVIDE THE ALLOWABLE WIND LOAD CAPACITY BY 2. THE REACTION FORCES REMAIN THE SAME FOR BOTH OPEN AND CLOSED SYSTEMS.
3. EACH BATTEN TO SUBSTRATE CONNECTION REQUIRES 2 FASTENERS AT EACH ANCHORAGE POINT.
 - 3.1. #12-14 STST SCREW USED FOR ANCHORAGE INTO 18 GAUGE STEEL, GRADE 33 (45 KSI)
 - 3.2. #8 WOOD SCREW USED FOR ANCHORAGE INTO 1/2" PLYWOOD
 - 3.2.1. TO SUBSTITUTE WITH #12 STST WOOD SCREW, MULTIPLY VALUE BY 1.31
 - 3.2.2. TO SUBSTITUTE WITH 3/4" PLYWOOD SUBSTRATE, MULTIPLY VALUE BY 1.50
4. MAXIMUM DEFLECTION = L/180
5. "N/A" VALUES ARE <16 PSF ALLOWABLE DESIGN PRESSURE
6. DESIGN PRESSURES ARE LIMITED TO 75 PSF
7. SNOW LOADS ARE NOT INCLUDED IN CALCULATIONS
8. FACTOR OF SAFETY OF 3 IS CONSIDERED IN THE CALCULATIONS
9. VERTICAL OR HORIZONTAL ORIENTATION OF BATTENS WILL NOT HAVE AN EFFECT ON THE DEFLECTION VALUES CALCULATED ON THE BATTENS DUE TO LIVE LOADS (WIND). CAPACITY OF THE BATTEN IS VALID FOR BOTH HORIZONTAL AND VERTICAL ORIENTATION INSTALLS.

SPAN ANCHORAGE CHARTS - MULTI SPAN

FRAMING: CLOSED WALL FRAMING	SUBSTRATE: 18 GAUGE STEEL	* ATTACHMENT OPTIONS AVAILABLE: L = L-BRACKET U = U-BRACKET A = ANGLE BRACKET DS = BATTEN DIRECT TO SUBSTRATE		
BATTEN TYPE		ALLOWABLE LOAD - psf {REACTION - lb}		
MOSAIC 2" BATTEN ASSEMBLY*^{L, U, A, DS}		NUMBER OF ATTACHMENT POINTS - SPAN"		
		2- Span@132"	3- Span@88"	4- Span@66"
BATTEN SIZE		18 GAUGE STEEL		
2X2		75 {172}	75 {101}	75 {78}
2X3		72 {143}	75 {151}	75 {118}
2X4		54 {248}	75 {202}	75 {157}
2X6		36 {248}	61 {248}	75 {235}
2X6 - 45°		43 {248}	74 {248}	75 {196}
2X8		27 {248}	46 {248}	59 {248}
MOSAIC 2" BATTEN ASSEMBLY*^{L, U, A}				
2X10		22 {248}	37 {248}	48 {248}
2X12		18 {248}	31 {248}	40 {248}
2X12 - 45°		22 {248}	37 {248}	48 {248}
2X14		16 {248}	26 {248}	34 {248}
2X16		14 {248}	23 {248}	30 {248}
MOSAIC BATTEN ASSEMBLY*^{L, U, A, DS}				
6X1		14 {97}	47 {191}	75 {235}
4X2		54 {248}	75 {202}	75 {157}



NOTES

1. MEMBER REACTION {lbs} VALUES SHOW LARGEST REACTION FORCE FROM THE ENTIRE SPAN, AT AN INDIVIDUAL ANCHORAGE POINT.
2. FOR OPEN SYSTEMS (NO WALL SHEATHING) DIVIDE THE ALLOWABLE WIND LOAD CAPACITY BY 2. THE REACTION FORCES REMAIN THE SAME FOR BOTH OPEN AND CLOSED SYSTEMS.
3. EACH BATTEN TO SUBSTRATE CONNECTION REQUIRES 2 FASTENERS AT EACH ANCHORAGE POINT.
 - 3.1. #12-14 STST SCREW USED FOR ANCHORAGE INTO 18 GAUGE STEEL, GRADE 33 (45 KSI)
4. MAXIMUM DEFLECTION = L/180
5. "N/A" VALUES ARE <16 PSF ALLOWABLE DESIGN PRESSURE
6. DESIGN PRESSURES ARE LIMITED TO 75 PSF
7. SNOW LOADS ARE NOT INCLUDED IN CALCULATIONS
8. FACTOR OF SAFETY OF 3 IS CONSIDERED IN THE CALCULATIONS
9. VERTICAL OR HORIZONTAL ORIENTATION OF BATTENS WILL NOT HAVE AN EFFECT ON THE DEFLECTION VALUES CALCULATED ON THE BATTENS DUE TO LIVE LOADS (WIND). CAPACITY OF THE BATTEN IS VALID FOR BOTH HORIZONTAL AND VERTICAL ORENTATION INSTALLS.

EXPANSION AND CONTRACTION TABLE FOR ALUMINUM 6063

EXPANSION AND CONTRACTION TABLE FOR ALUMINUM 6063												
Average Temperature at Time of Cutting & Installation												
	°F	-20	0	10	20	35	50	65	80	95	105	120
Minimum and Maximum Temperature at Install Location	°F	Expansion or Contraction (Inches/Foot)										
	-20	0.000	0.003	0.002	0.006	0.008	0.011	0.013	0.015	0.017	0.019	0.021
	0	0.003	0.000	0.002	0.003	0.005	0.008	0.010	0.012	0.014	0.016	0.018
	10	0.005	0.002	0.000	0.002	0.004	0.006	0.008	0.011	0.013	0.014	0.017
	20	0.006	0.003	0.002	0.000	0.002	0.005	0.007	0.009	0.011	0.013	0.015
	35	0.008	0.005	0.004	0.002	0.000	0.002	0.005	0.007	0.009	0.011	0.013
	50	0.011	0.008	0.006	0.005	0.002	0.000	0.002	0.005	0.007	0.008	0.011
	65	0.013	0.010	0.008	0.007	0.005	0.002	0.000	0.002	0.005	0.006	0.008
	80	0.015	0.012	0.011	0.009	0.007	0.005	0.002	0.000	0.002	0.004	0.006
	95	0.017	0.014	0.013	0.011	0.009	0.007	0.005	0.002	0.000	0.002	0.004
	105	0.019	0.016	0.014	0.013	0.011	0.008	0.006	0.004	0.002	0.000	0.002
	120	0.021	0.018	0.017	0.015	0.013	0.011	0.008	0.006	0.004	0.002	0.000

INSTRUCTIONS FOR USING THE EXPANSION AND CONTRACTION TABLE

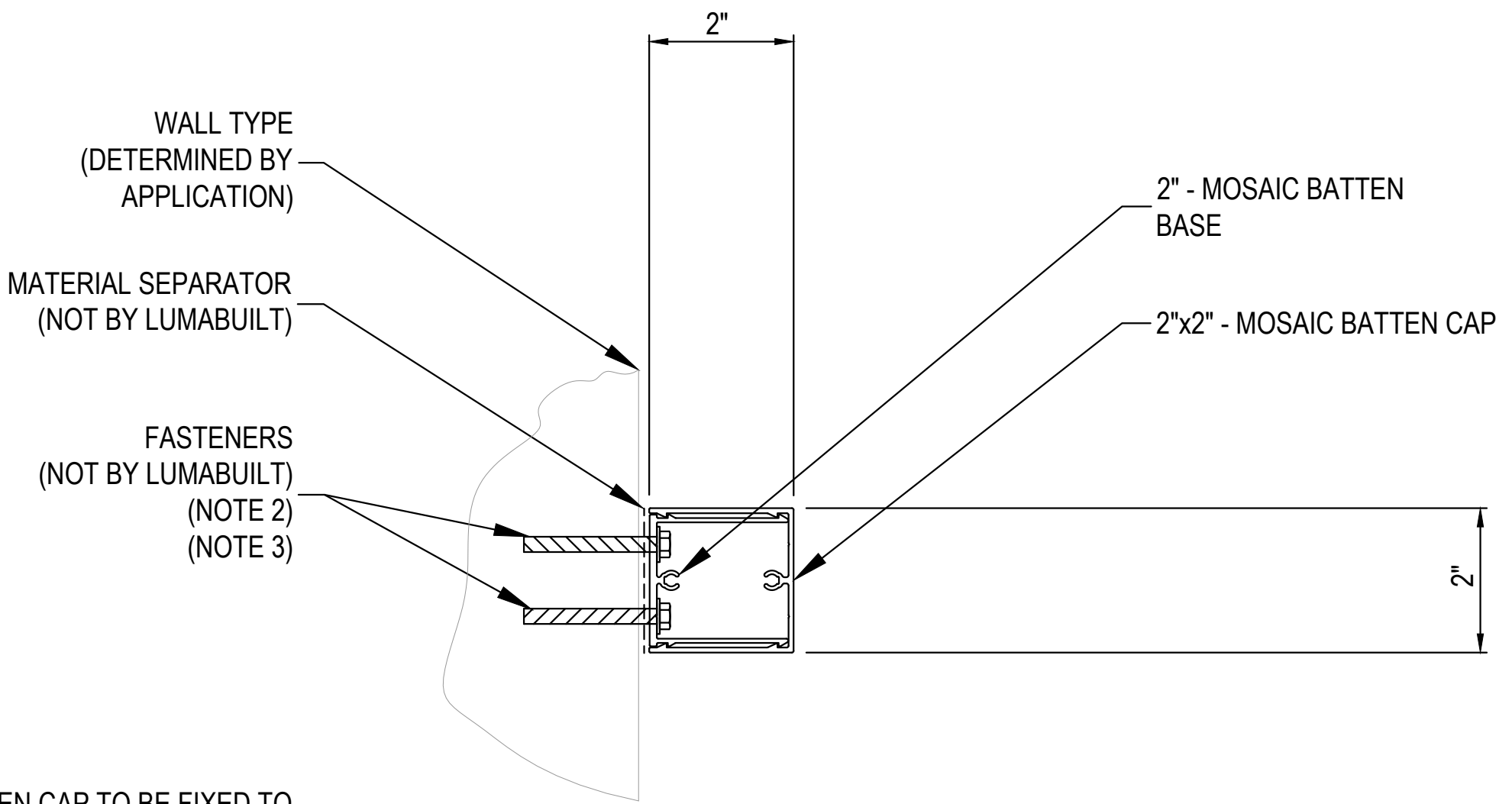
1. DETERMINE THE:
 - 1.1. TEMPERATURE AT THE TIME OF CUTTING/INSTALLATION OF MOSAIC BATTENS
 - 1.2. TEMPERATURE HIGH AND LOW OF THE INSTALLATION AREA.

2. TO FIND MOSAIC BATTEN EXPANSION:
 - 2.1. USE THE HIGH TEMPERATURE OF THE INSTALLATION AREA TO LOCATE THE CORRESPONDING VALUE IN THE LEFT COLUMN.
 - 2.2. USE THE CURRENT TEMPERATURE AT THE TIME OF CUTTING/INSTALLATION TO LOCATE THE CORRESPONDING VALUE IN THE TOP ROW.
 - 2.3. FIND THE VALUE WHERE THE COLUMN AND ROW INTERSECT. MULTIPLY THIS VALUE TIMES THE TOTAL LENGTH OF THE BATTEN AND THIS WILL BE THE AMOUNT THE BATTEN WILL EXPAND.

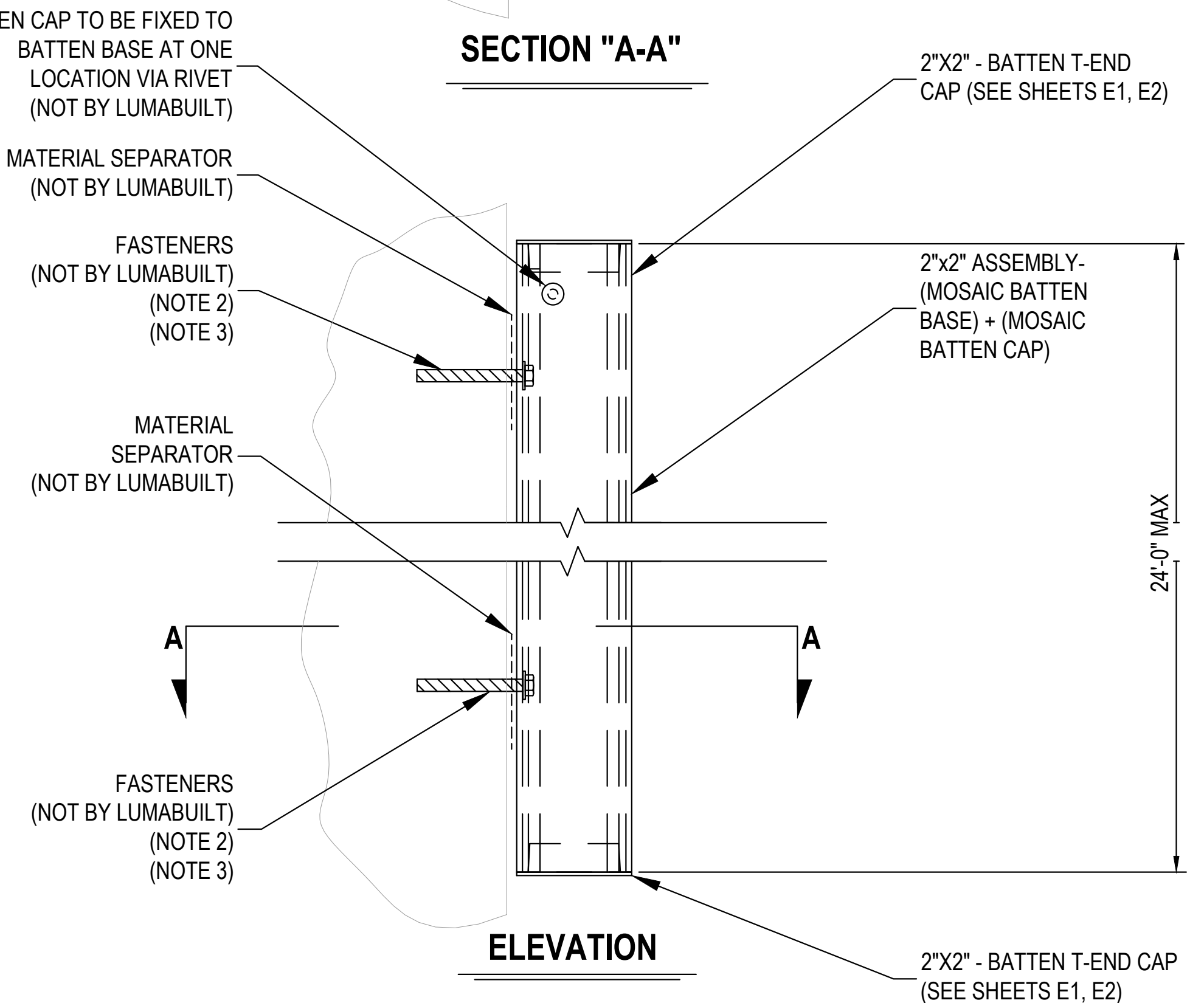
3. TO FIND MOSAIC BATTEN CONTRACTION:
 - 3.1. PERFORM STEPS 2.1 TO 2.3, EXCEPT USE THE LOW TEMPERATURE OF THE INSTALLATION AREA WHEN LOCATING YOUR COLUMN VALUE.

ALTERNATIVELY THIS EQUATION MAY BE USED:

$$\left(\begin{array}{l} \text{THERMAL (EXPANSION OR} \\ \text{CONTRACTION) CHANGE IN} \\ \text{LENGTH (INCHES)} \end{array} \right) = (12.5 \times 10^{-6}) \times \left(\begin{array}{l} \text{STARTING BATTEN} \\ \text{LENGTH (INCHES)} \end{array} \right) \times \left(\begin{array}{l} \text{CHANGE IN} \\ \text{TEMPERATURE (°F)} \end{array} \right)$$



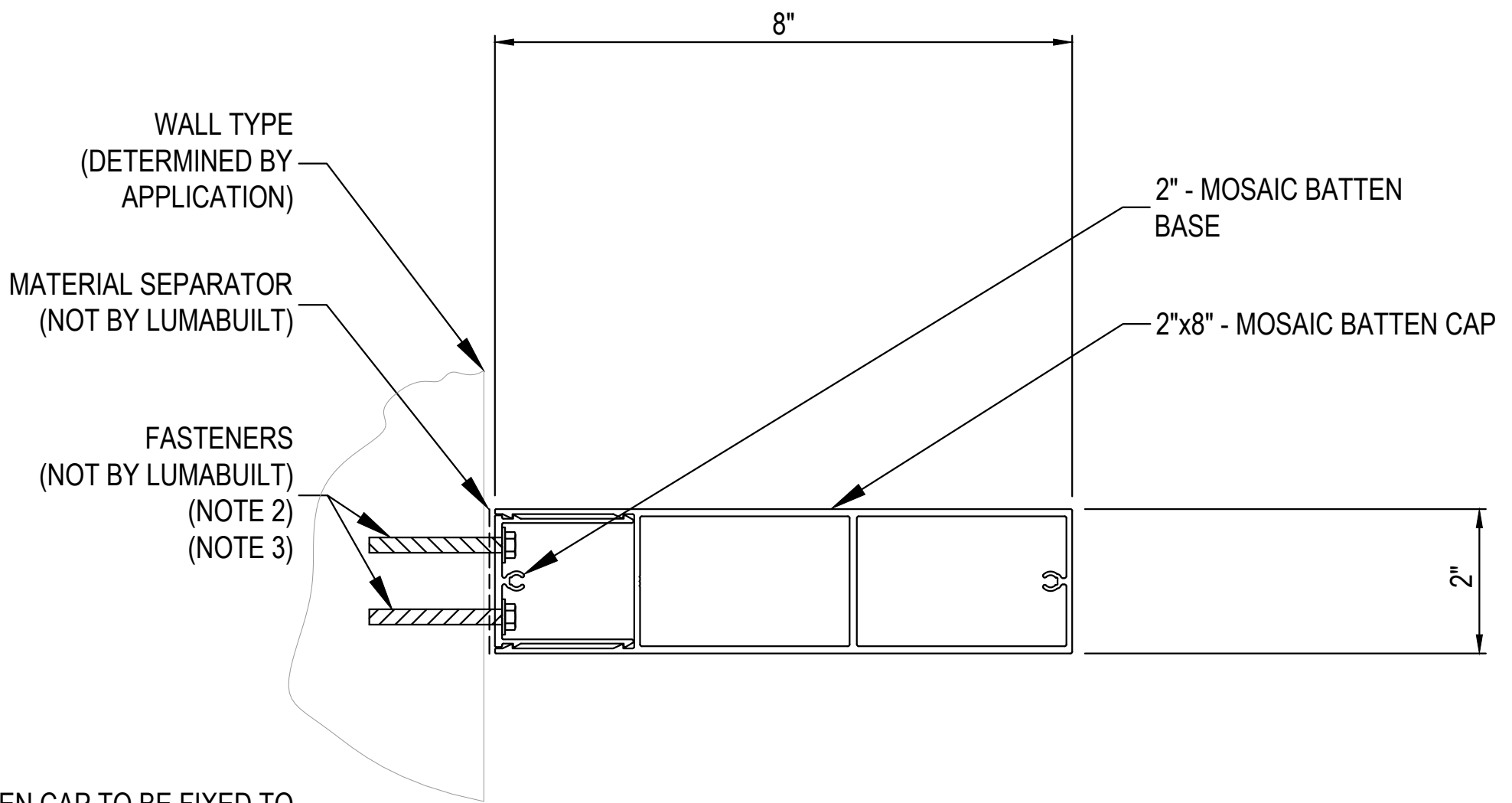
SECTION "A-A"



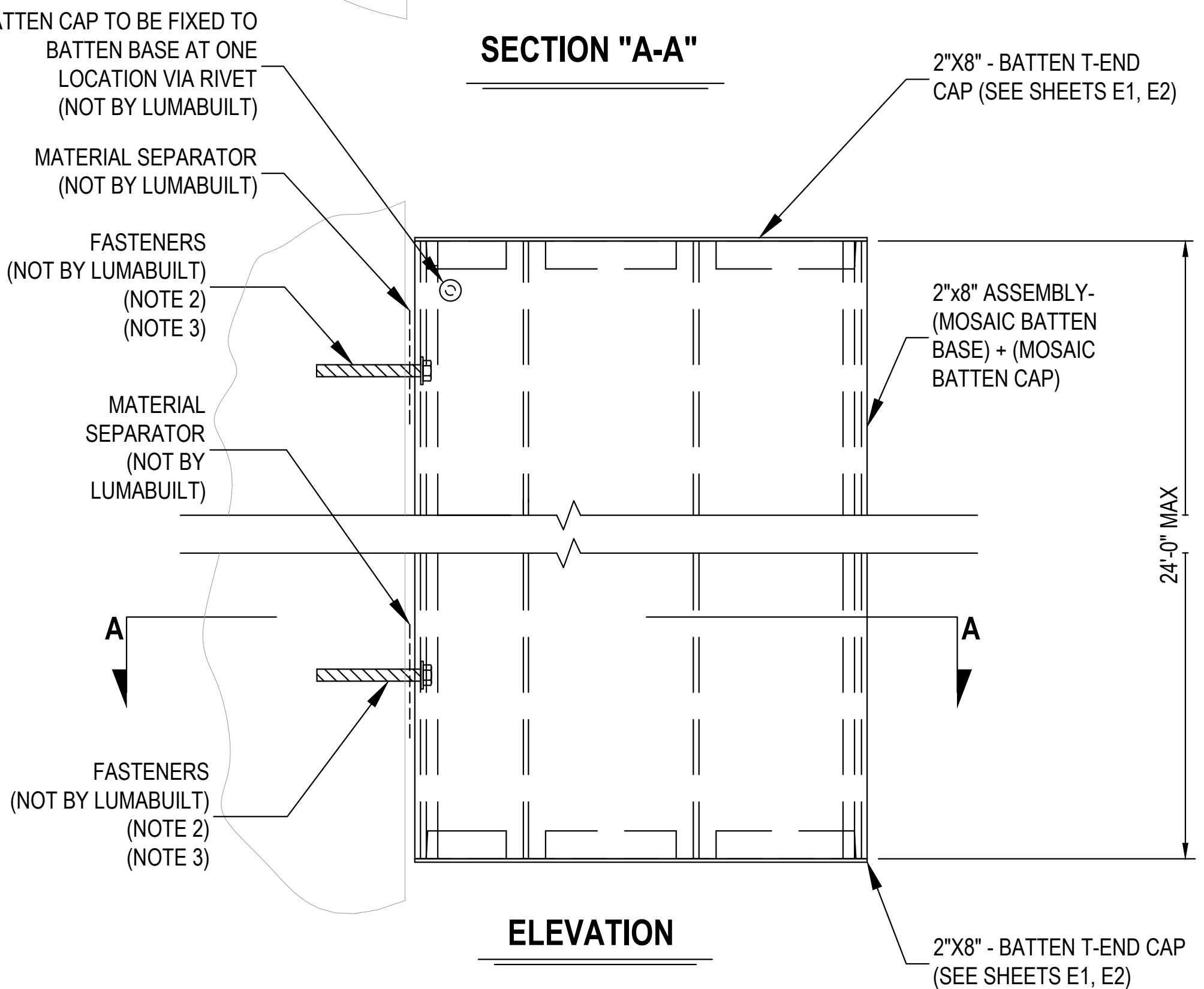
ELEVATION

NOTES

1. BATTENS SHOWN CAN BE USED IN VERTICAL & HORIZONTAL APPLICATIONS.
2. FASTENER SIZE, TYPE AND SPACING TO BE DETERMINED BY PROJECT ENGINEER.
3. EACH FASTENER LOCATION MUST BE PRE-DRILLED THROUGH THE MOSAIC BATTEN PRIOR TO INSTALL. ALLOWANCE FOR THERMAL MOVEMENT FOR EACH APPLICATION MUST BE CONSIDERED; SEE APPENDIX A1 AND VERIFY WITH PROJECT ENGINEER.



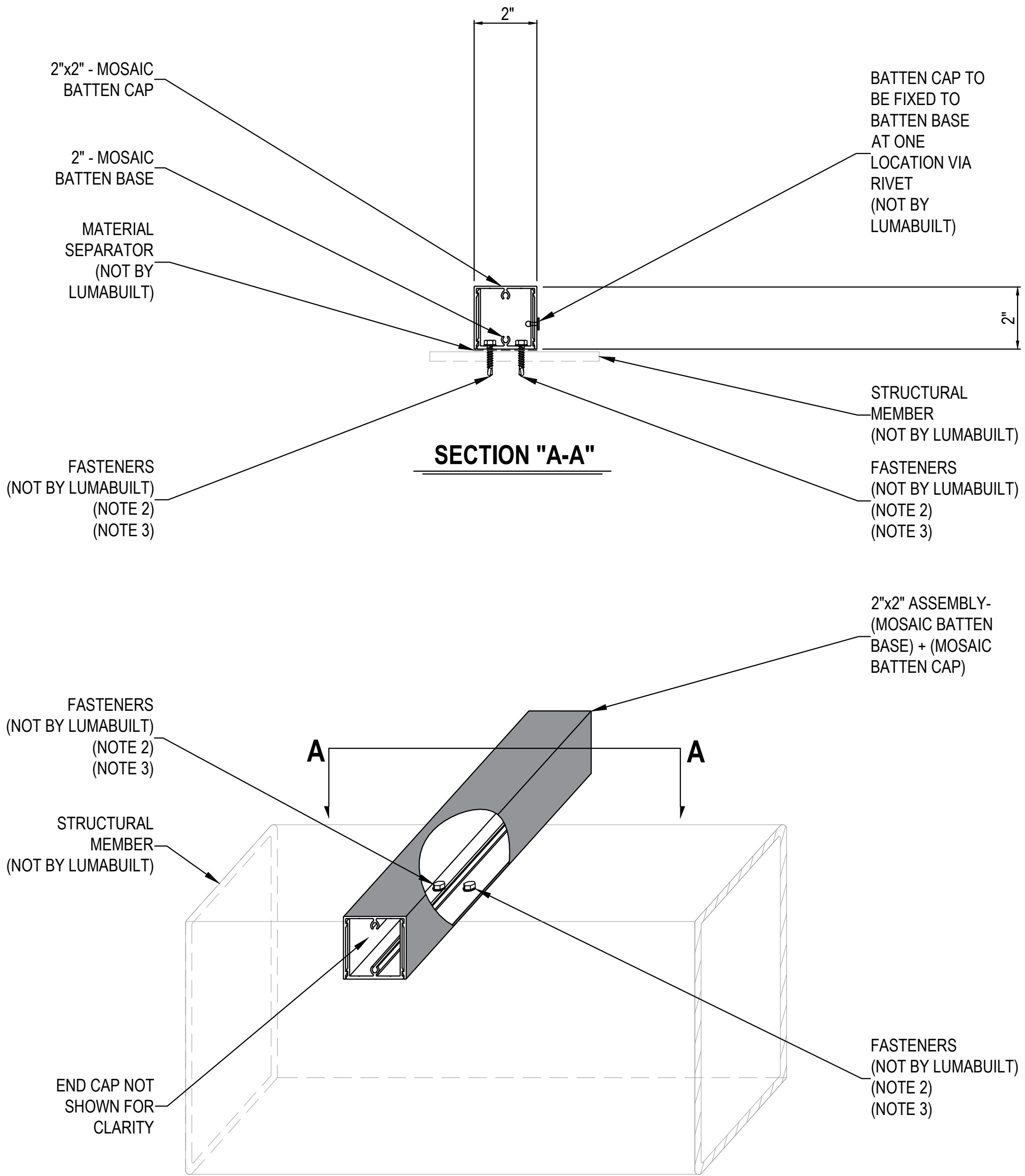
SECTION "A-A"



ELEVATION

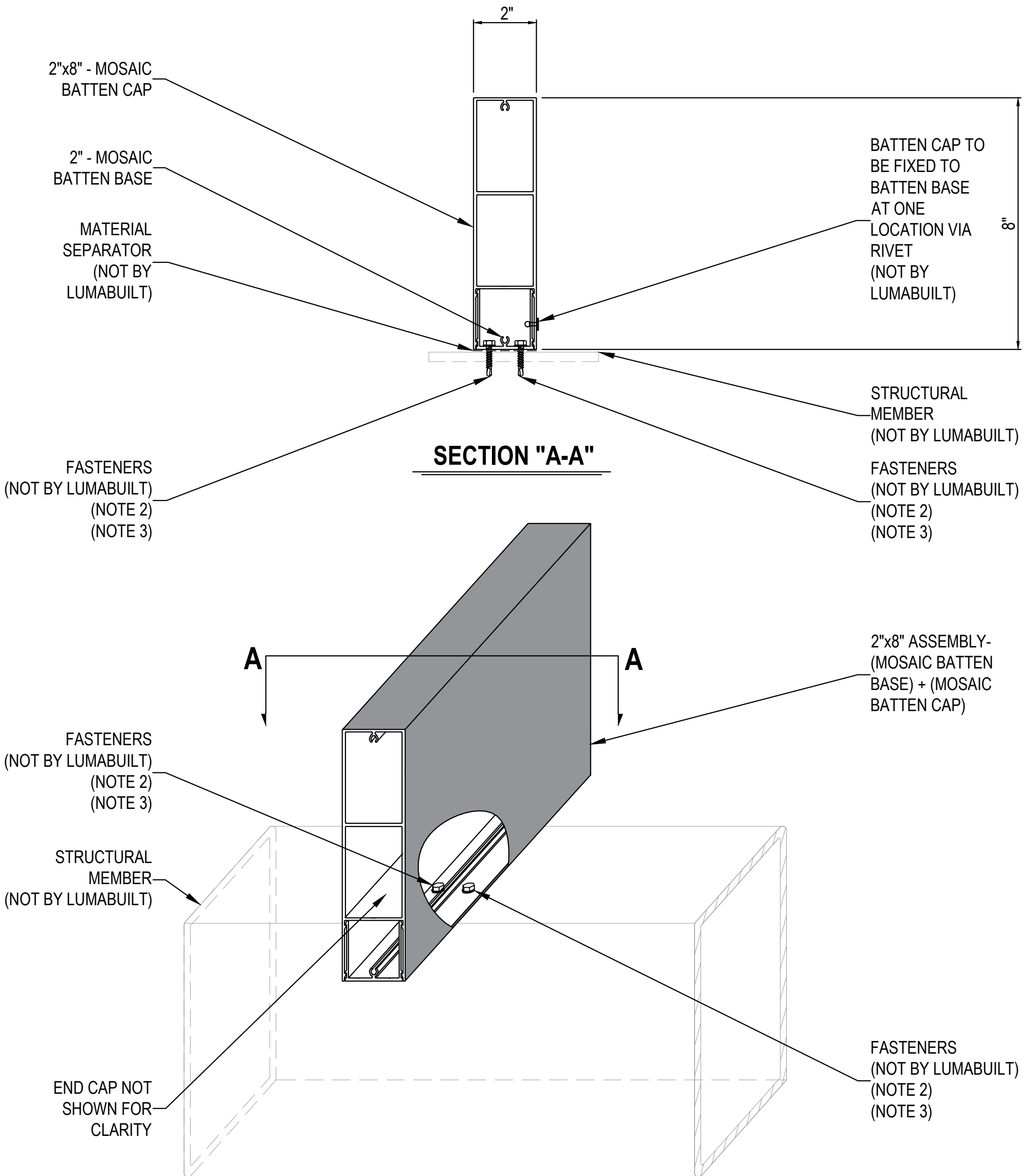
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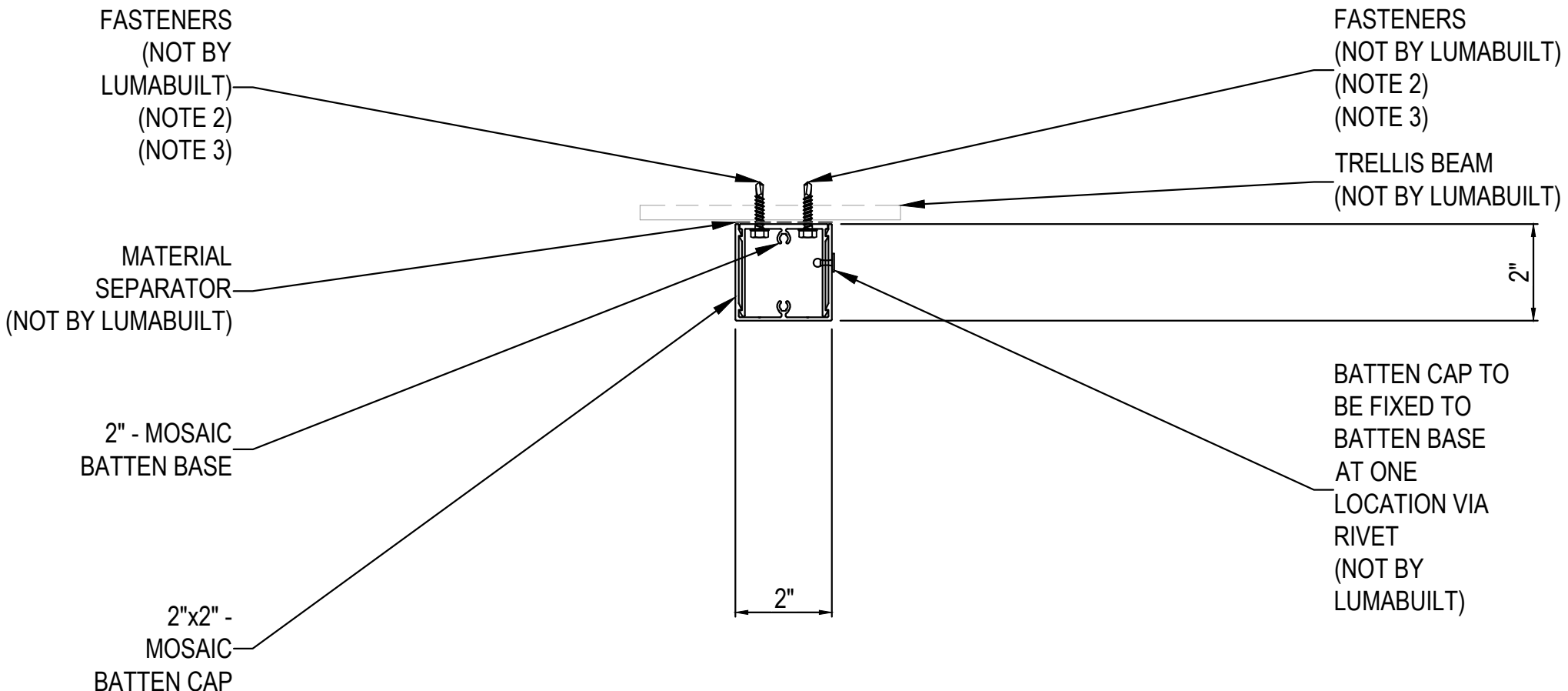
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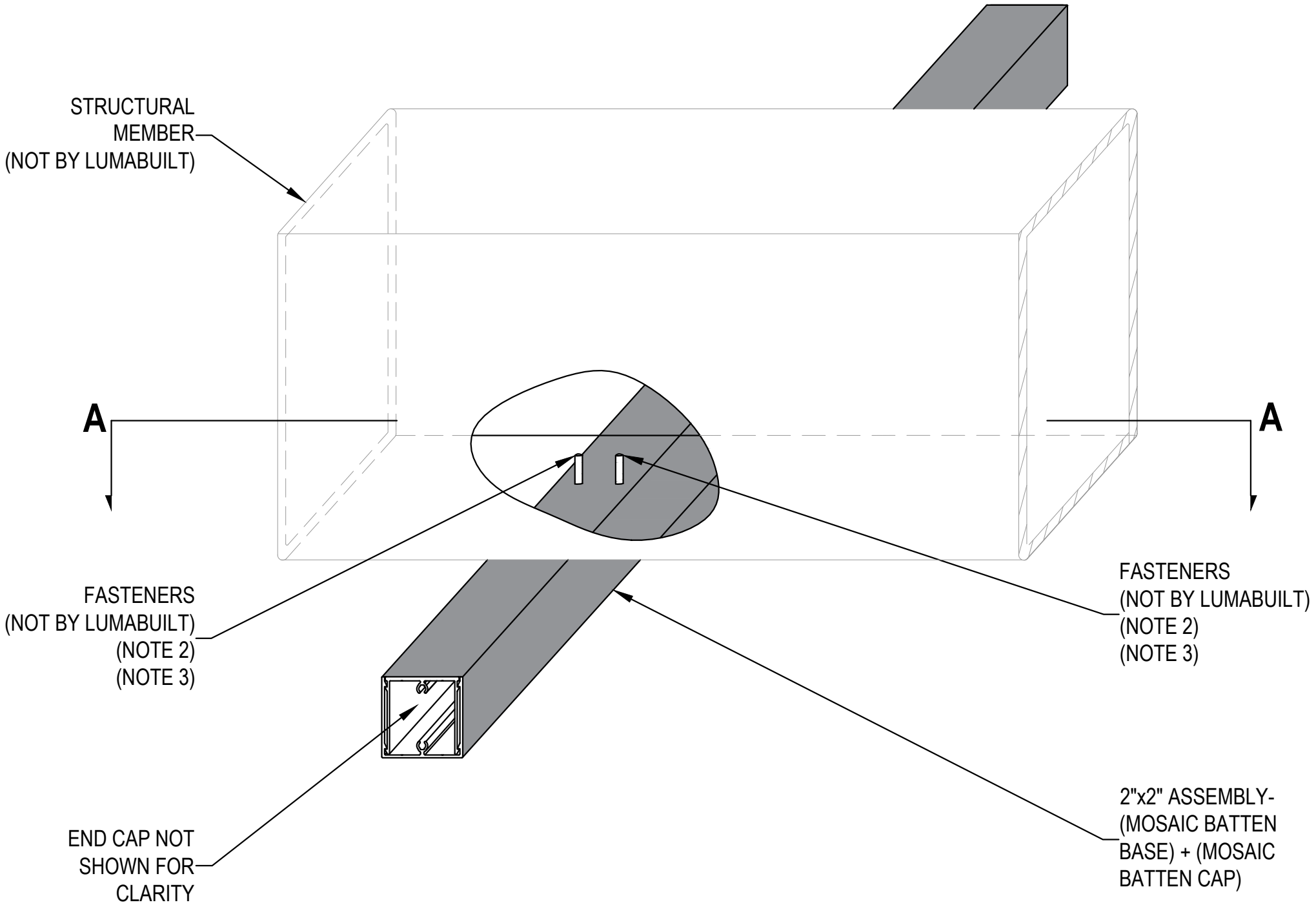


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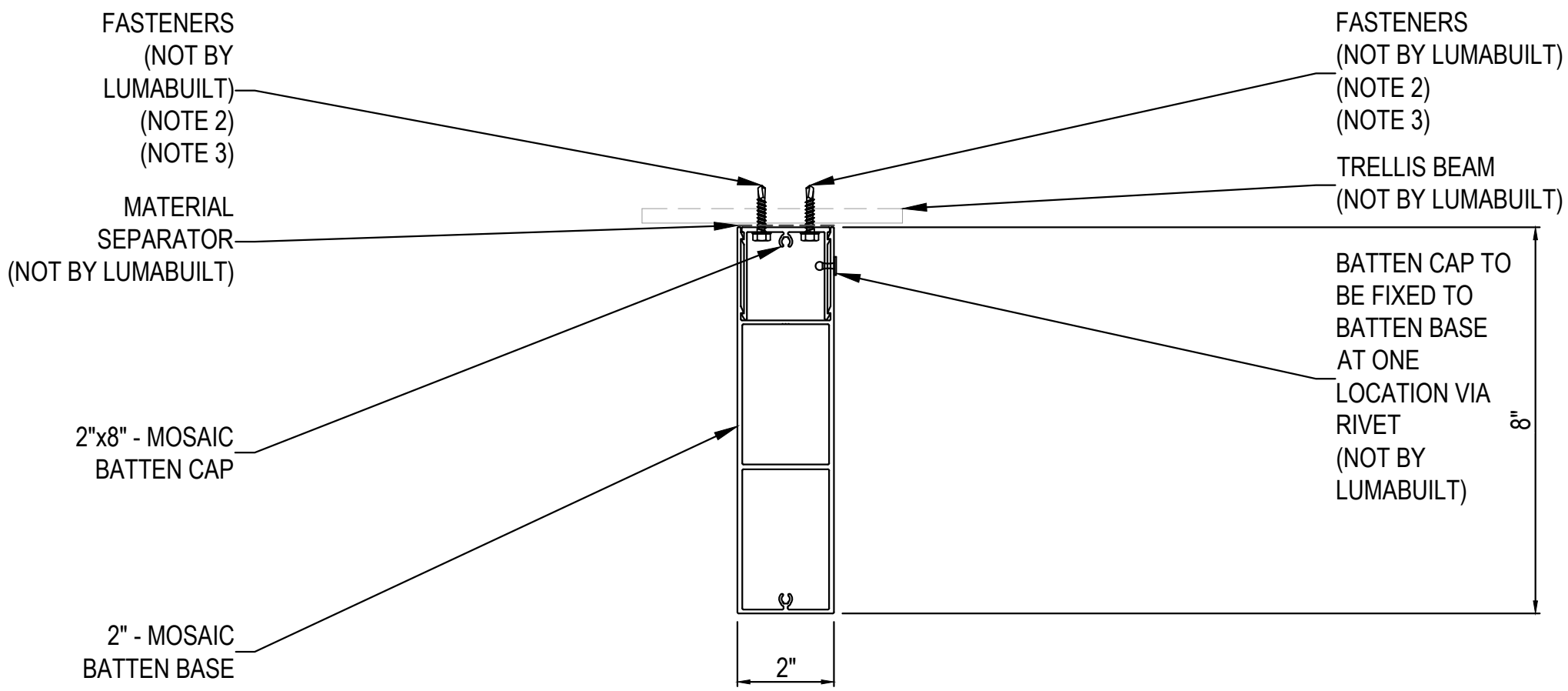


SECTION "A-A"

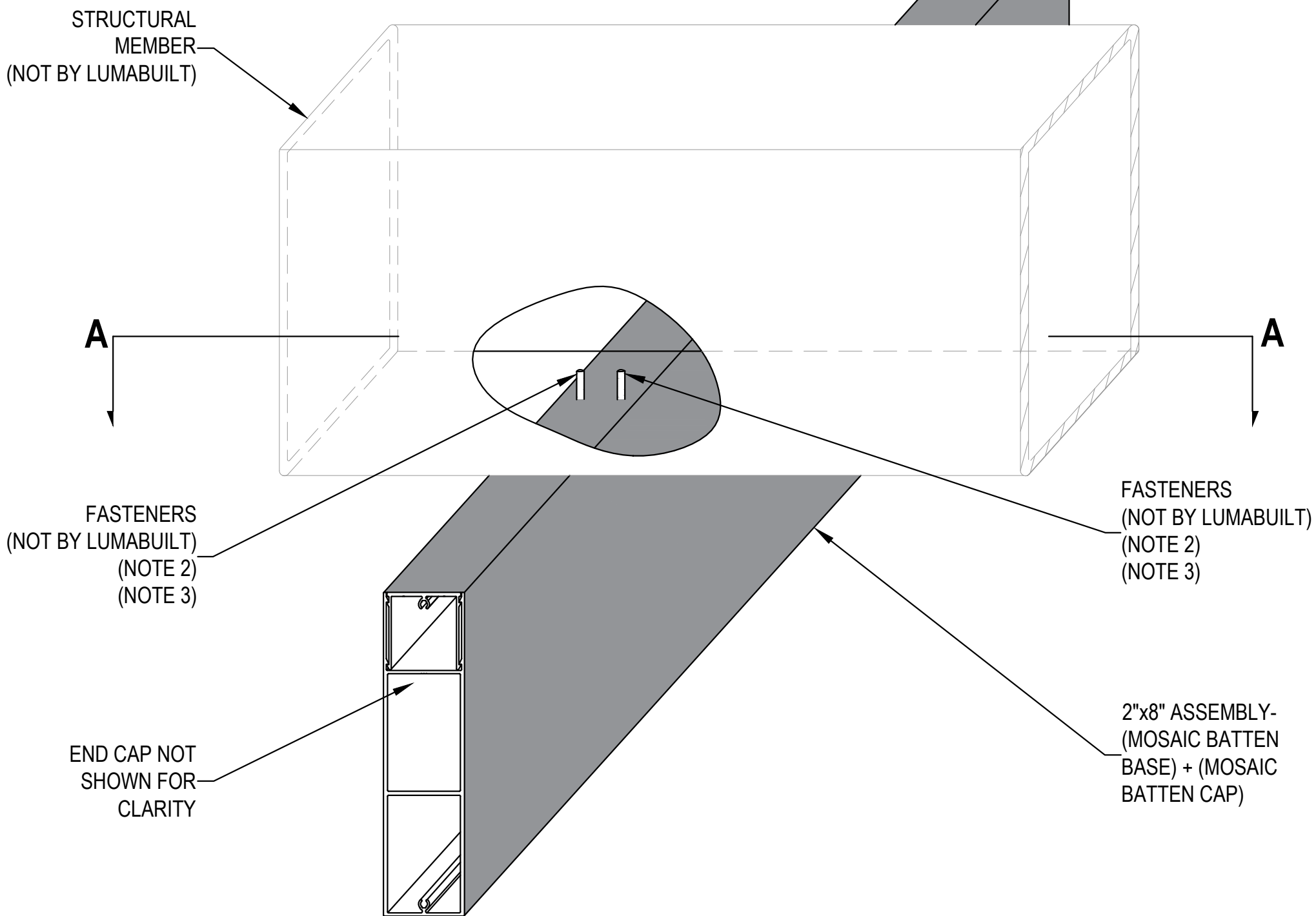


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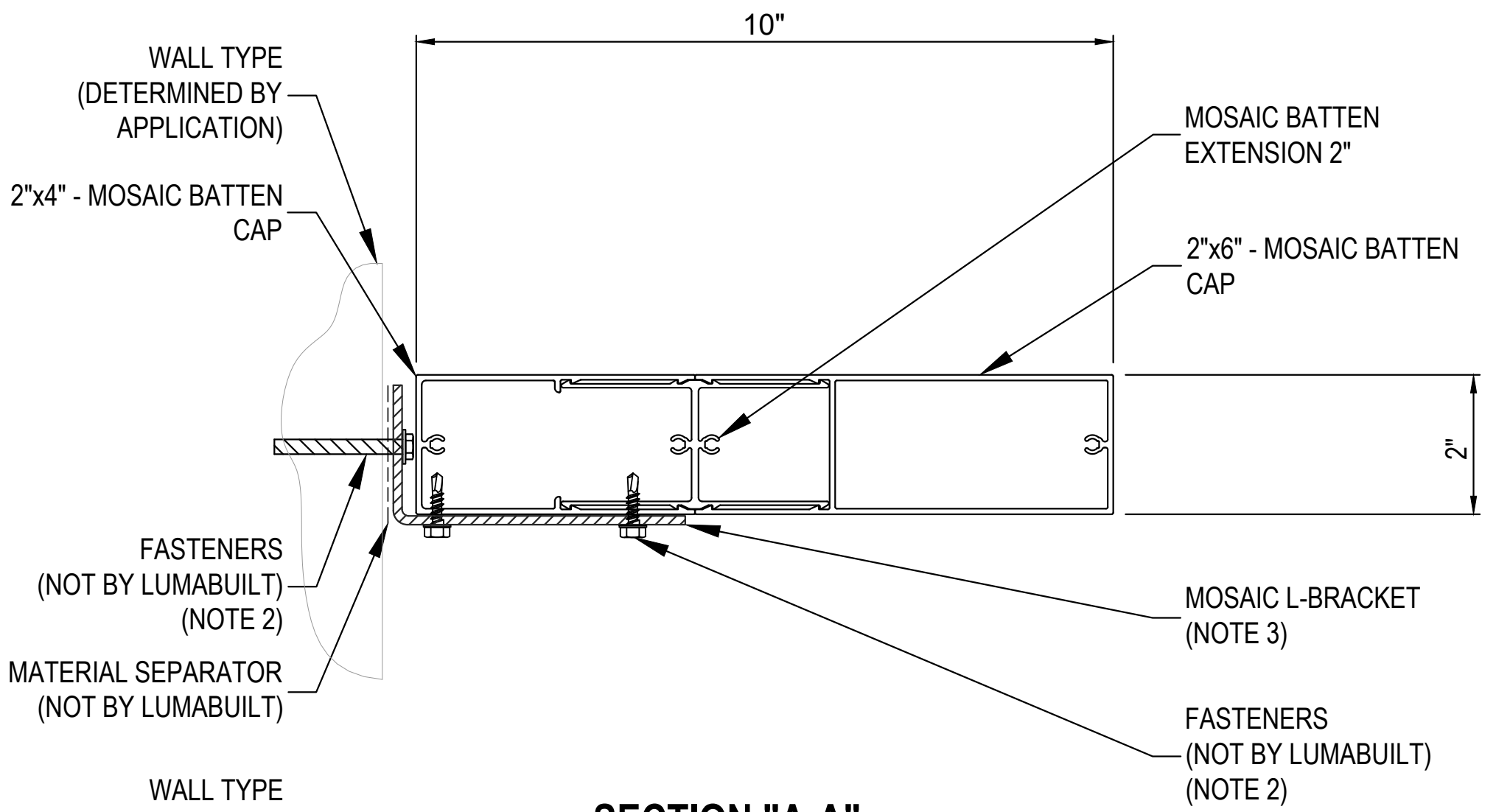


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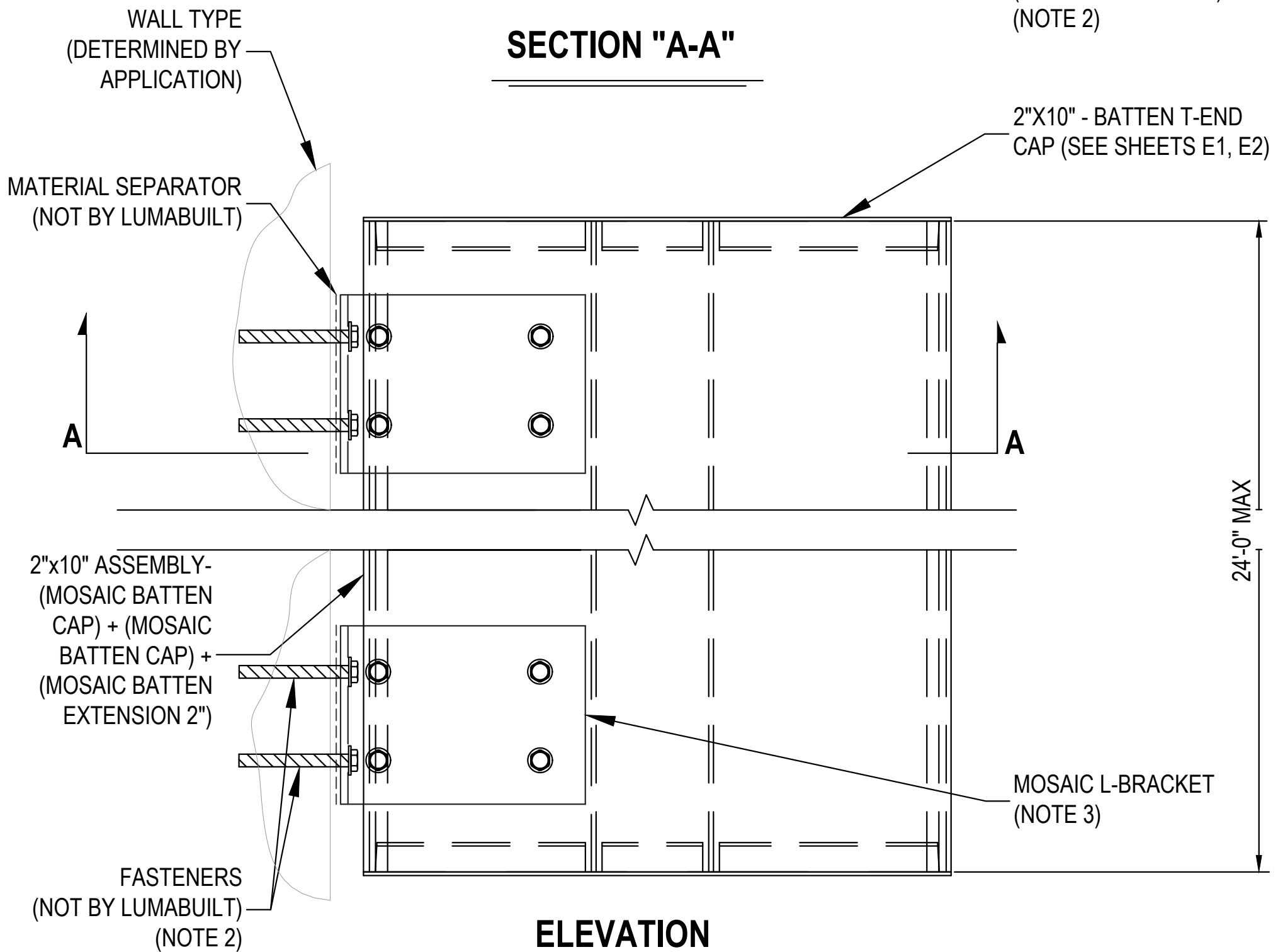


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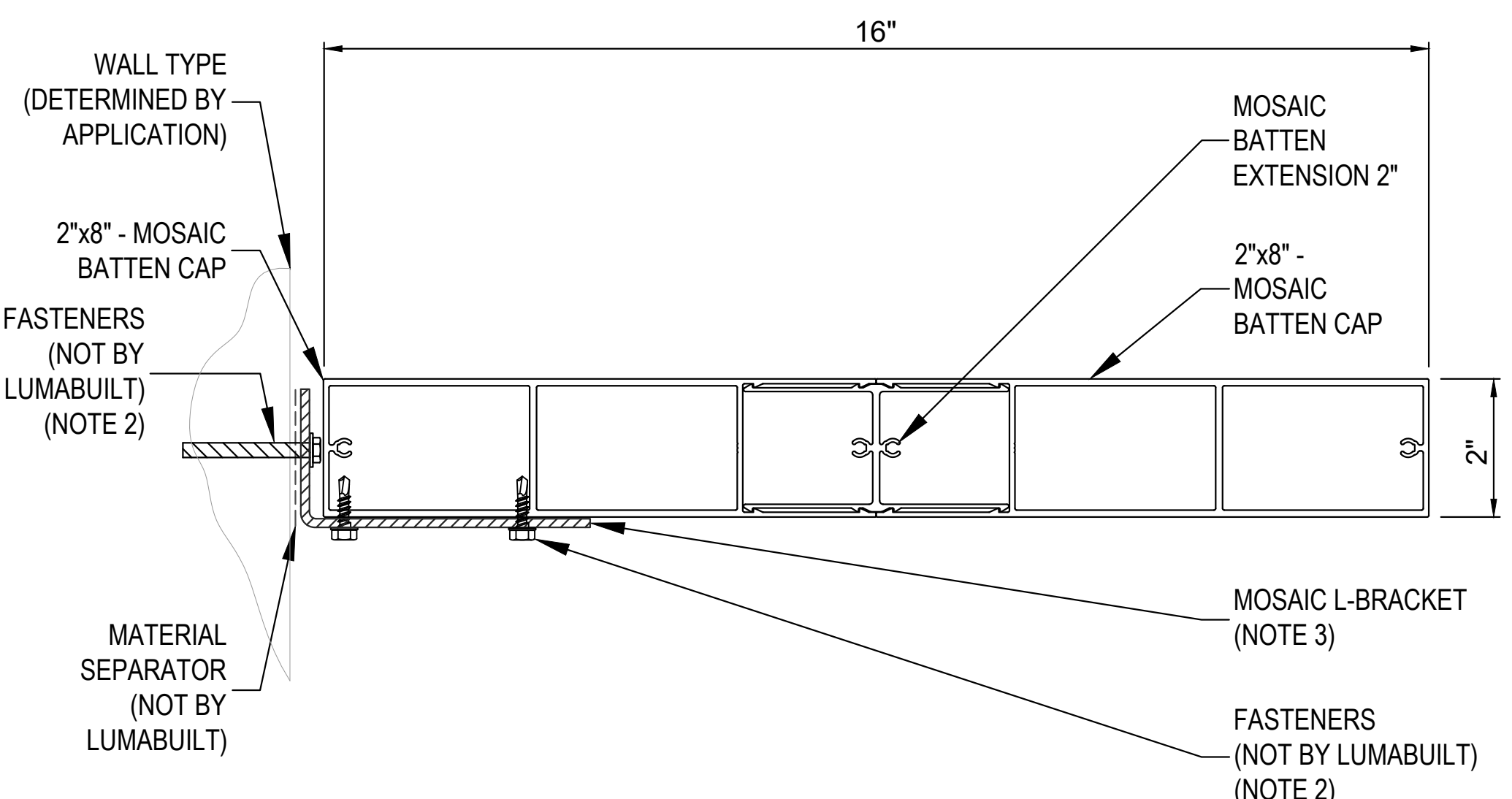
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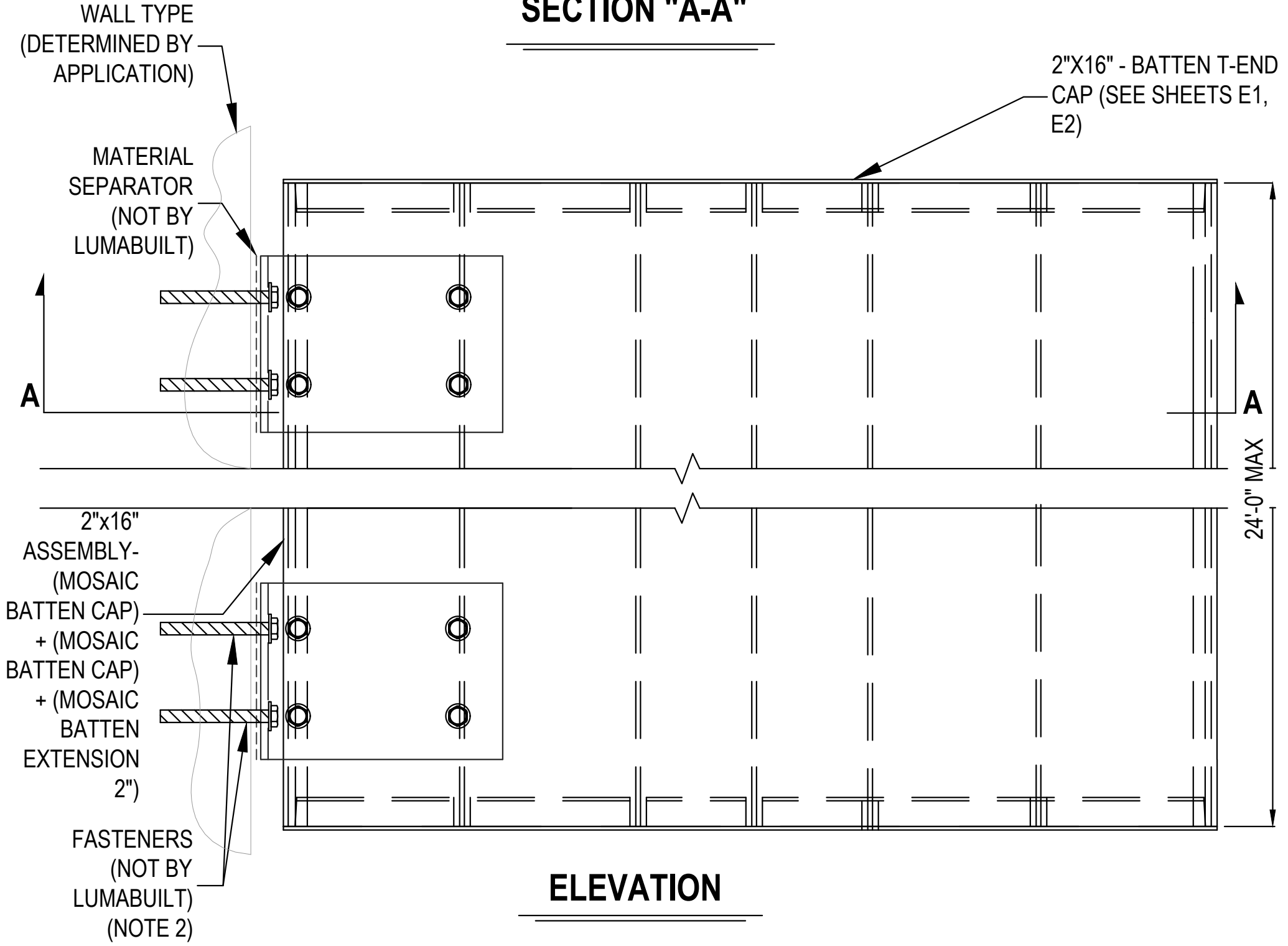
ELEVATION

NOTES

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3. BRACKET SPACING TO BE DETERMINED BY THE PROJECT ENGINEER.



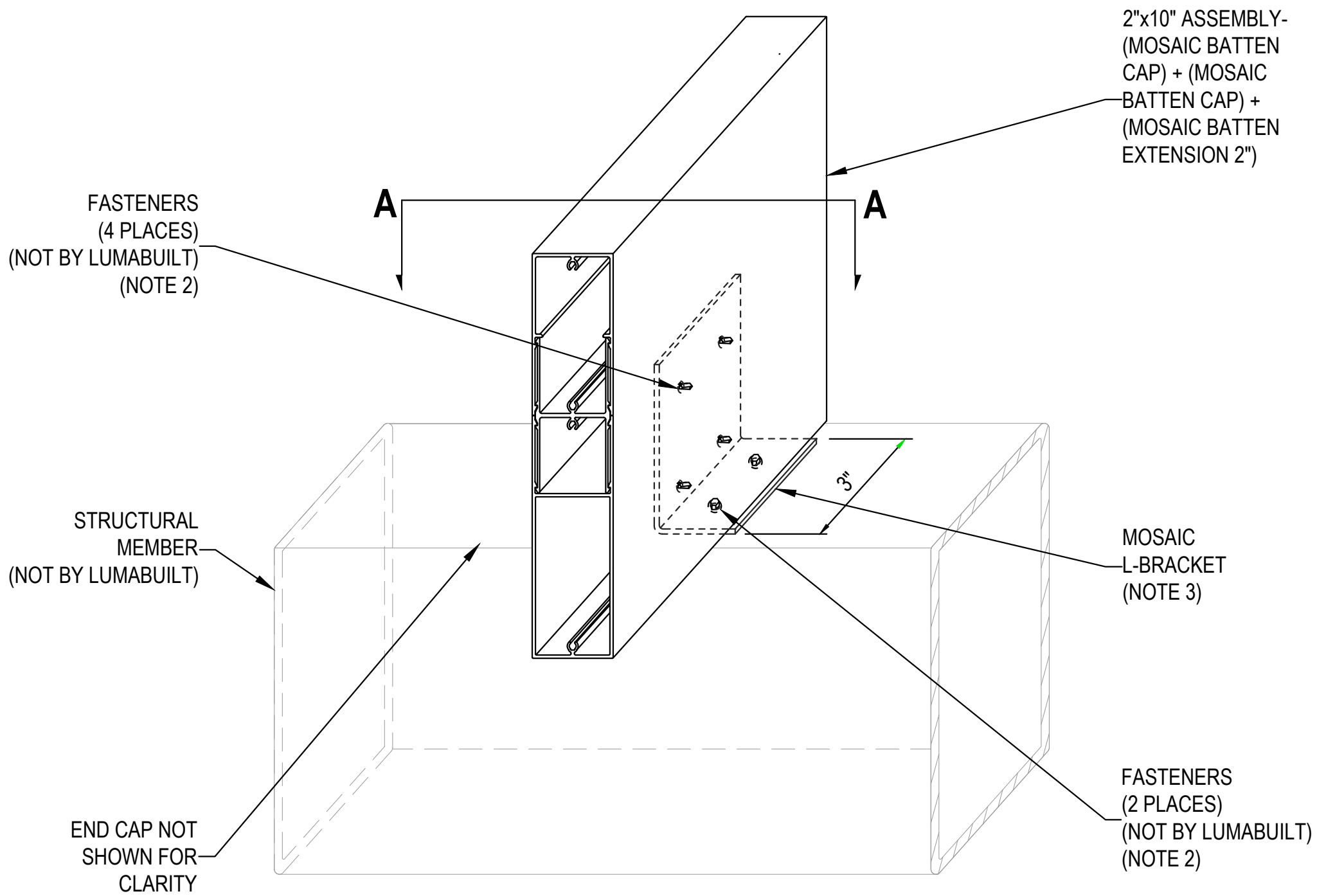
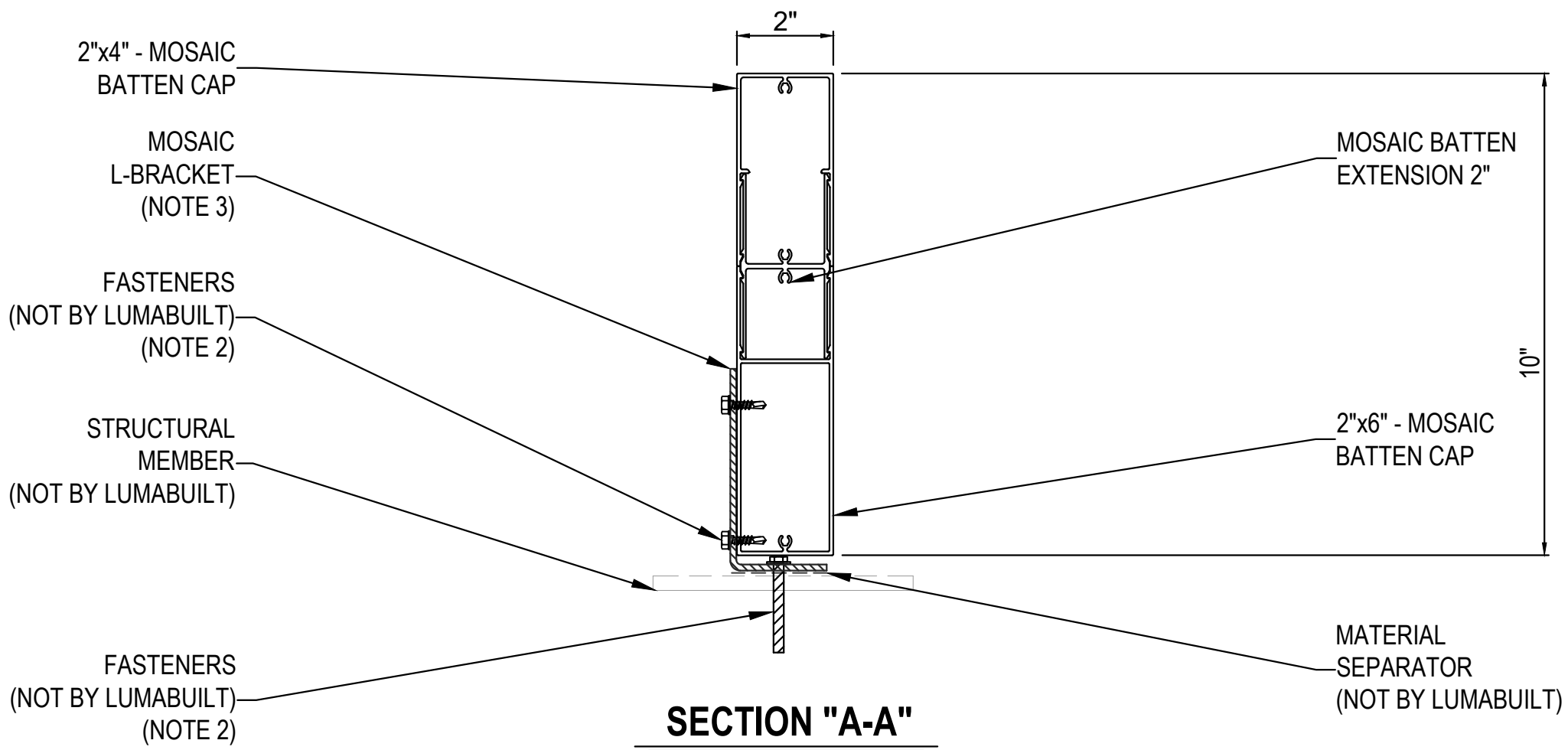
SECTION "A-A"



ELEVATION

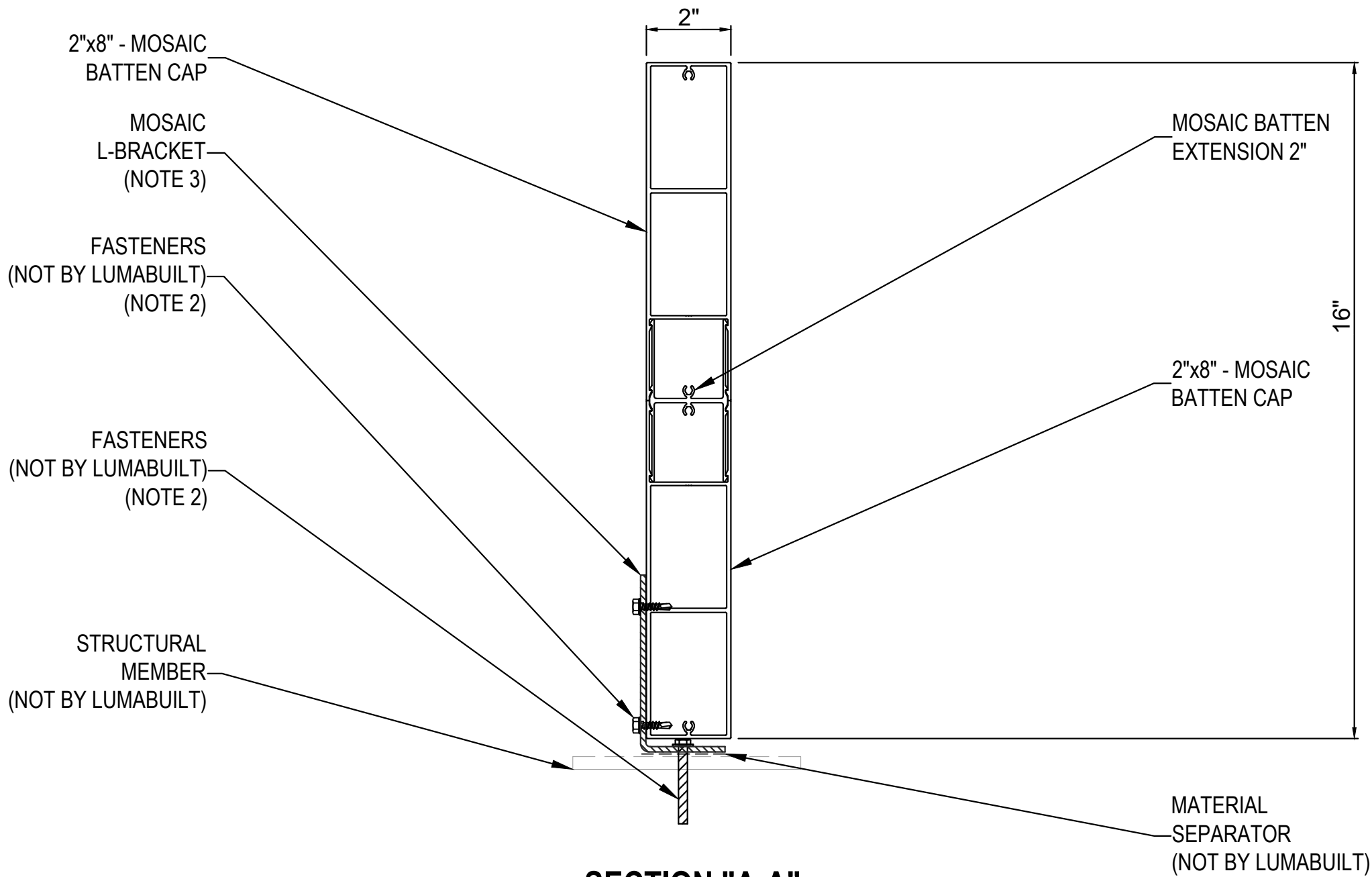
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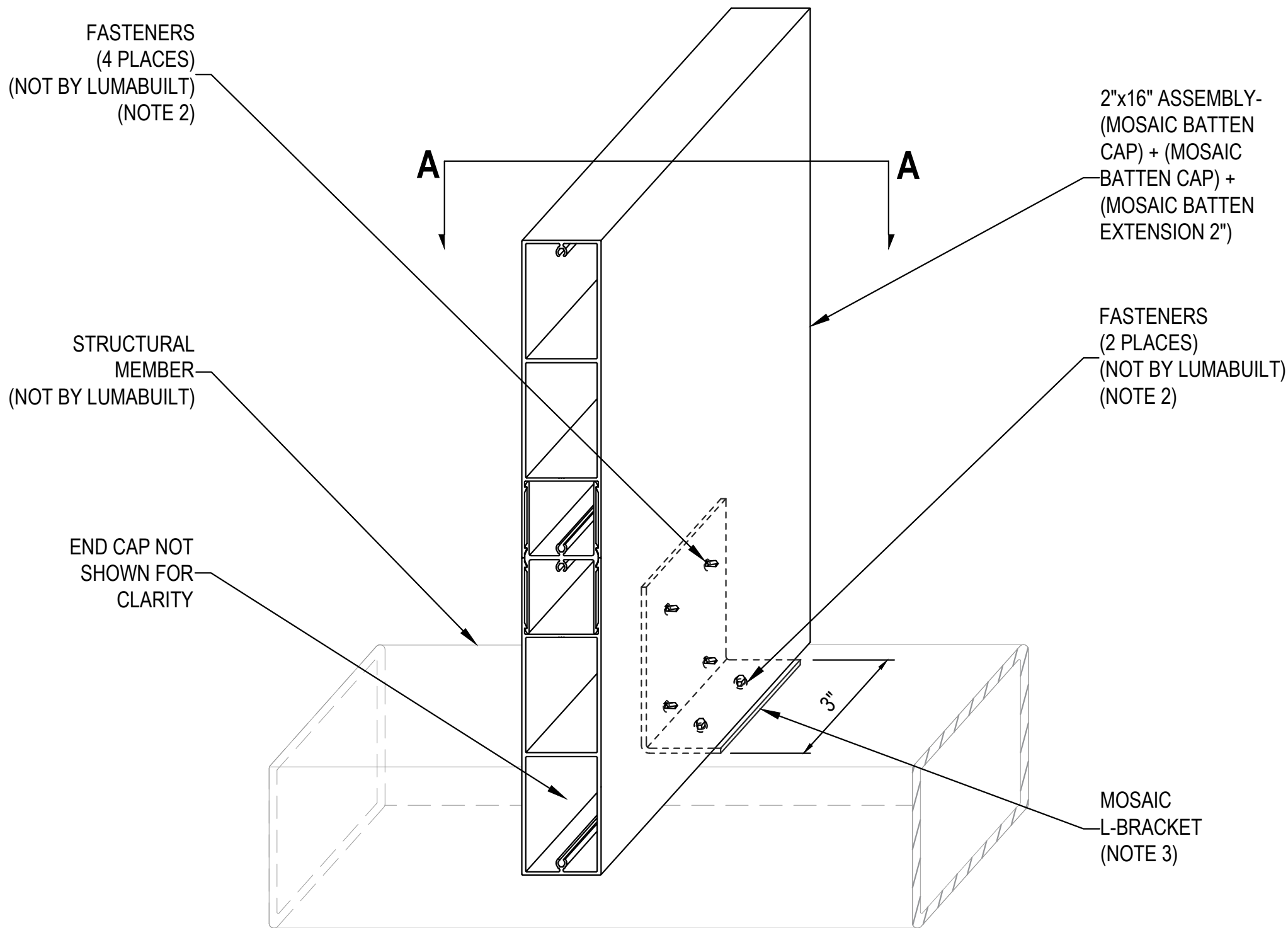


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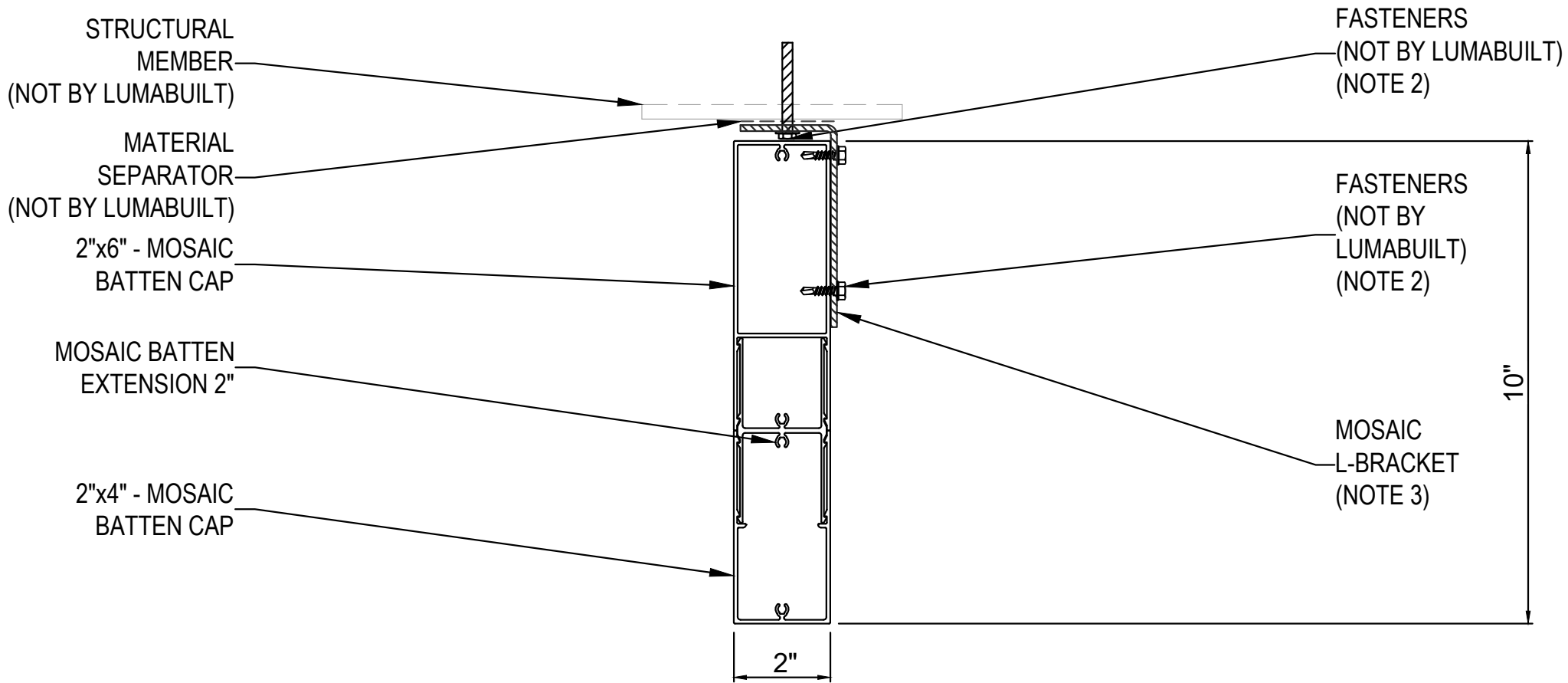


SECTION "A-A"

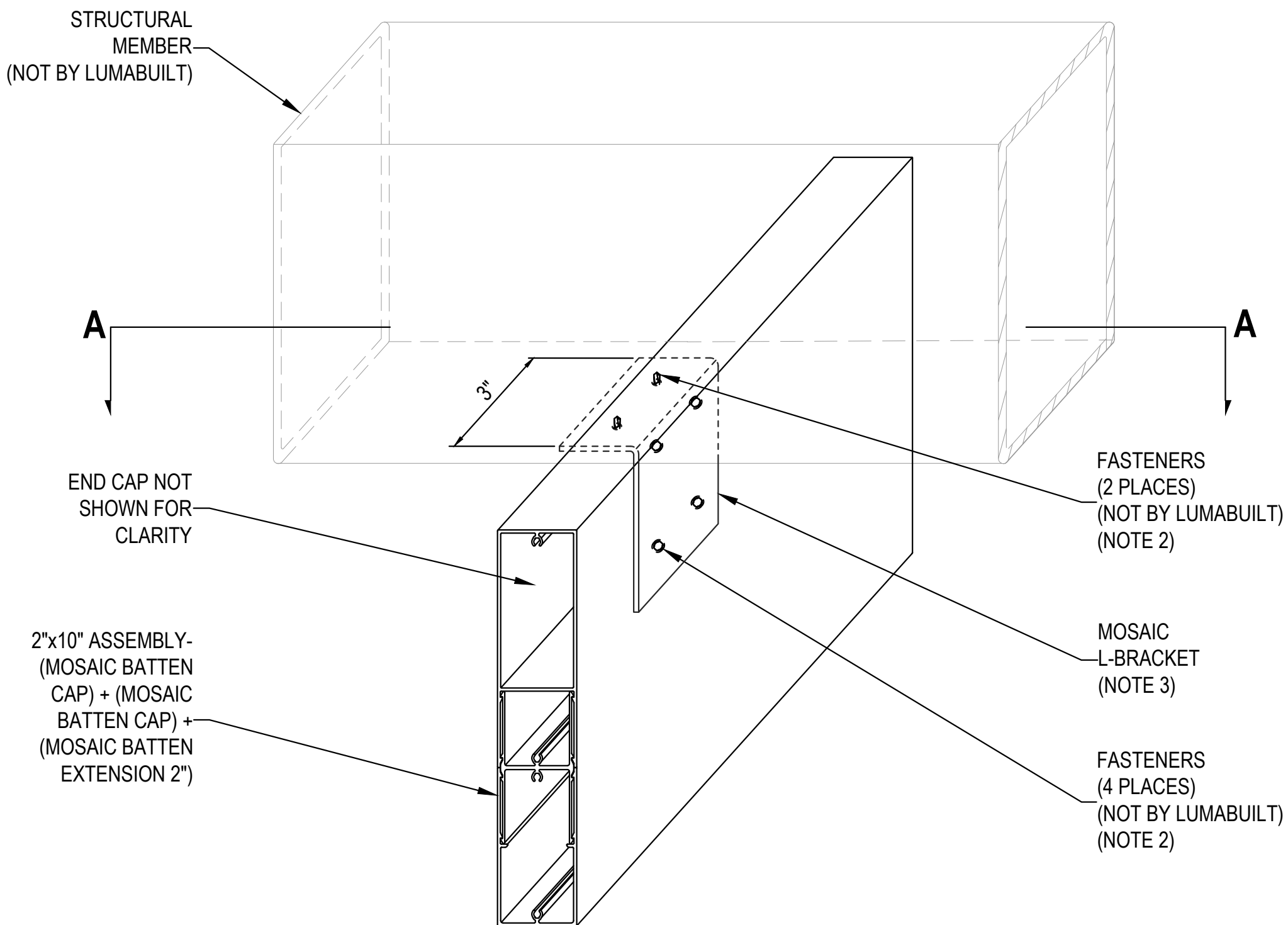


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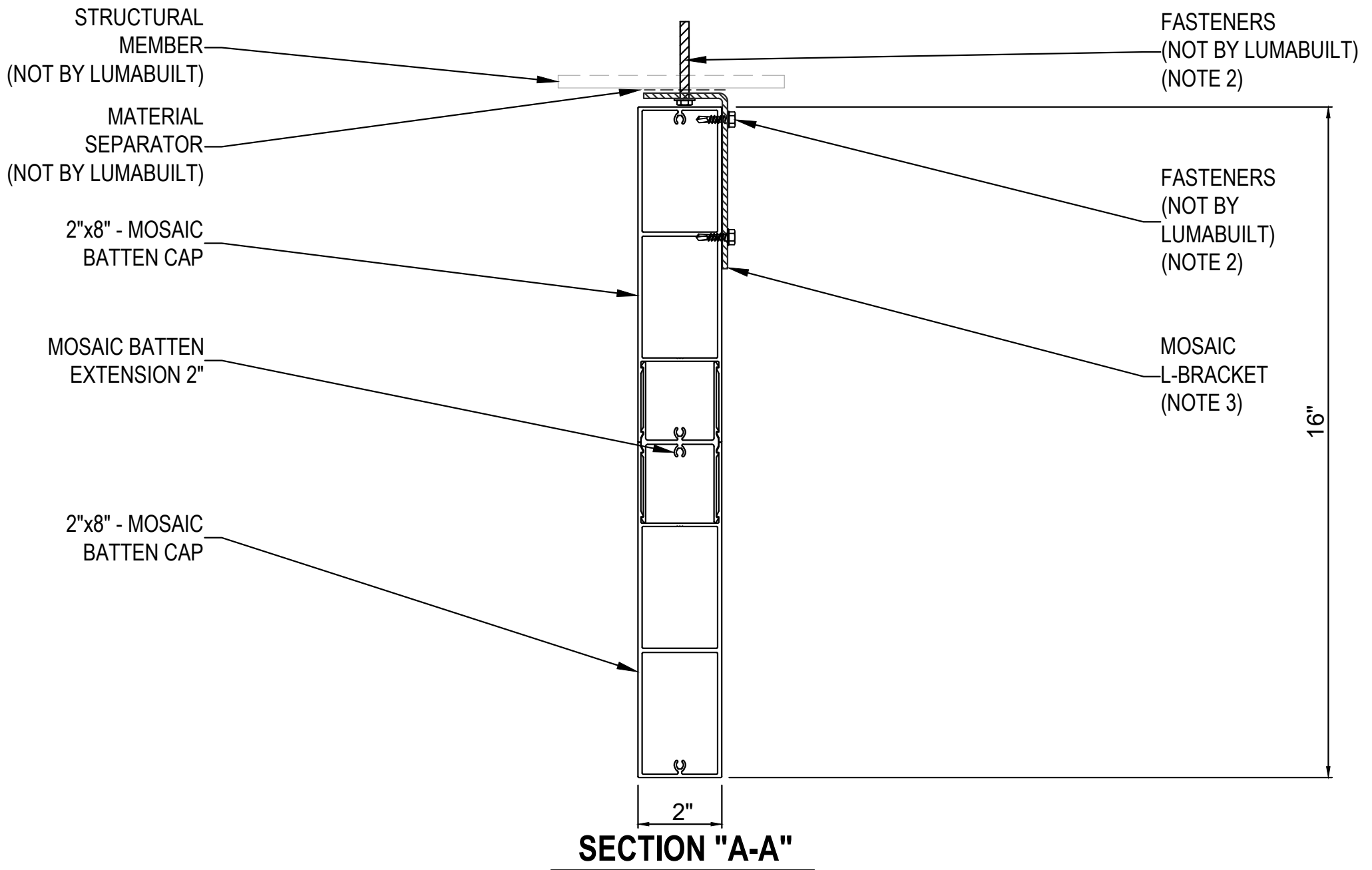


SECTION "A-A"

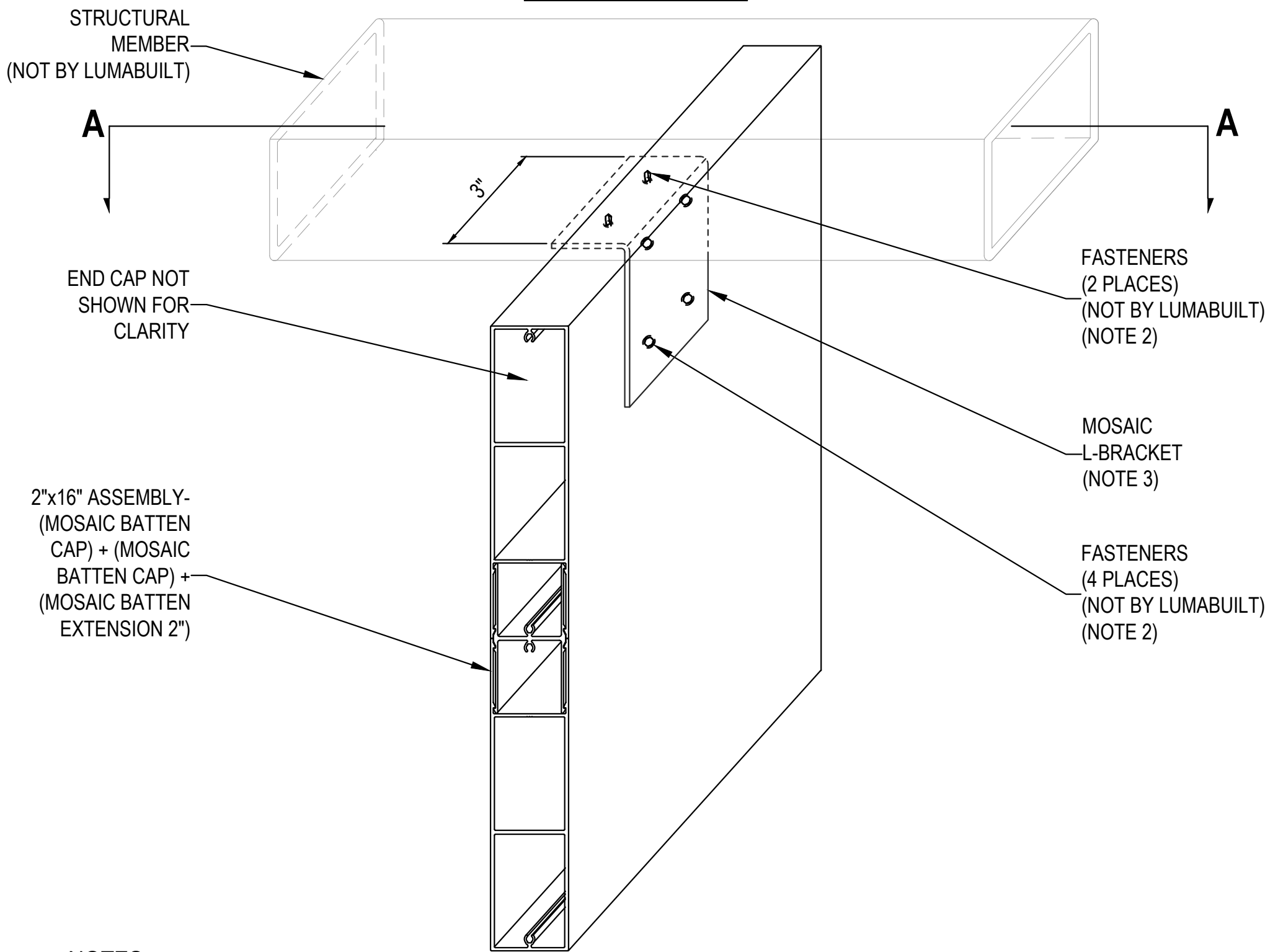


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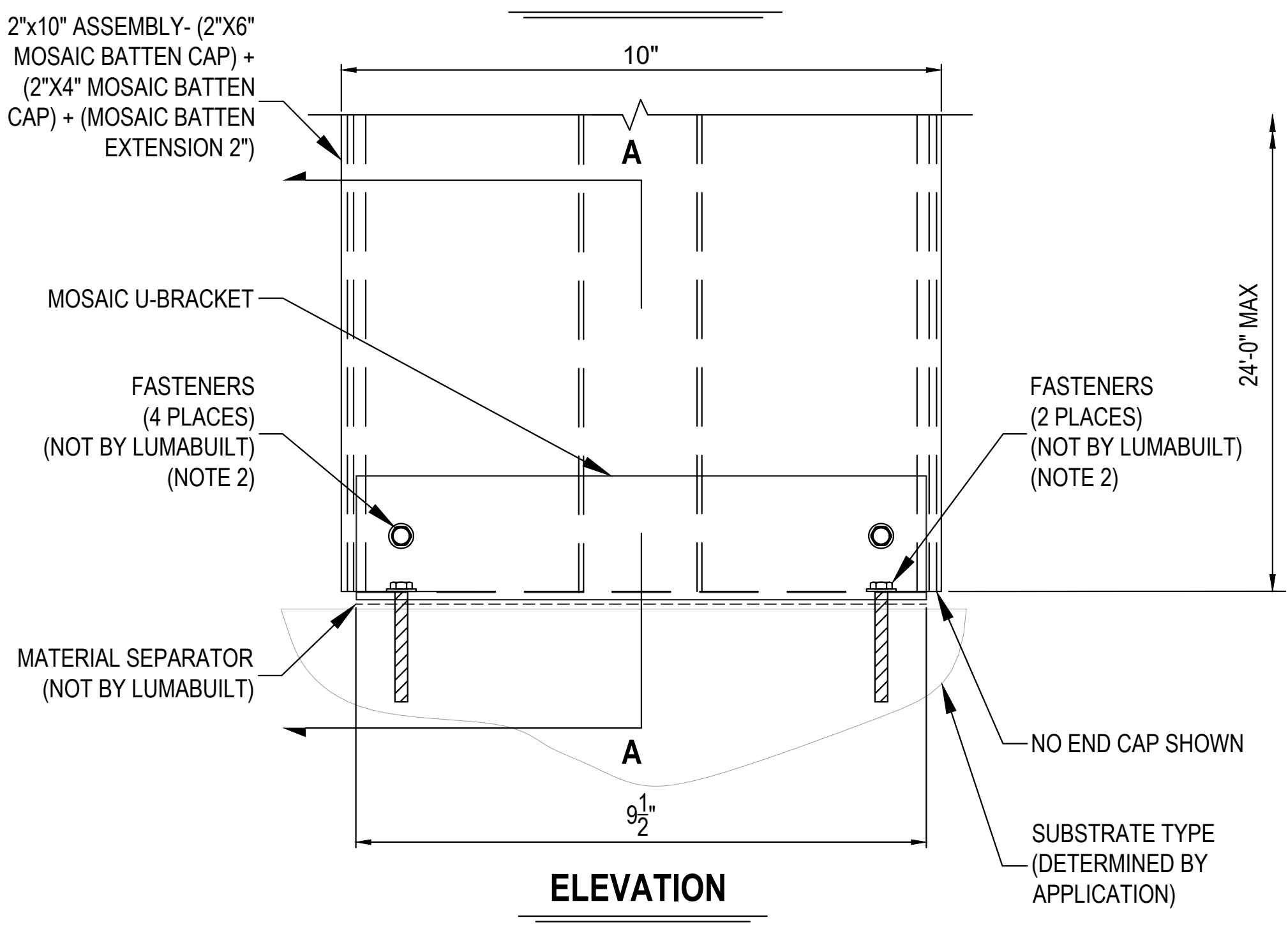
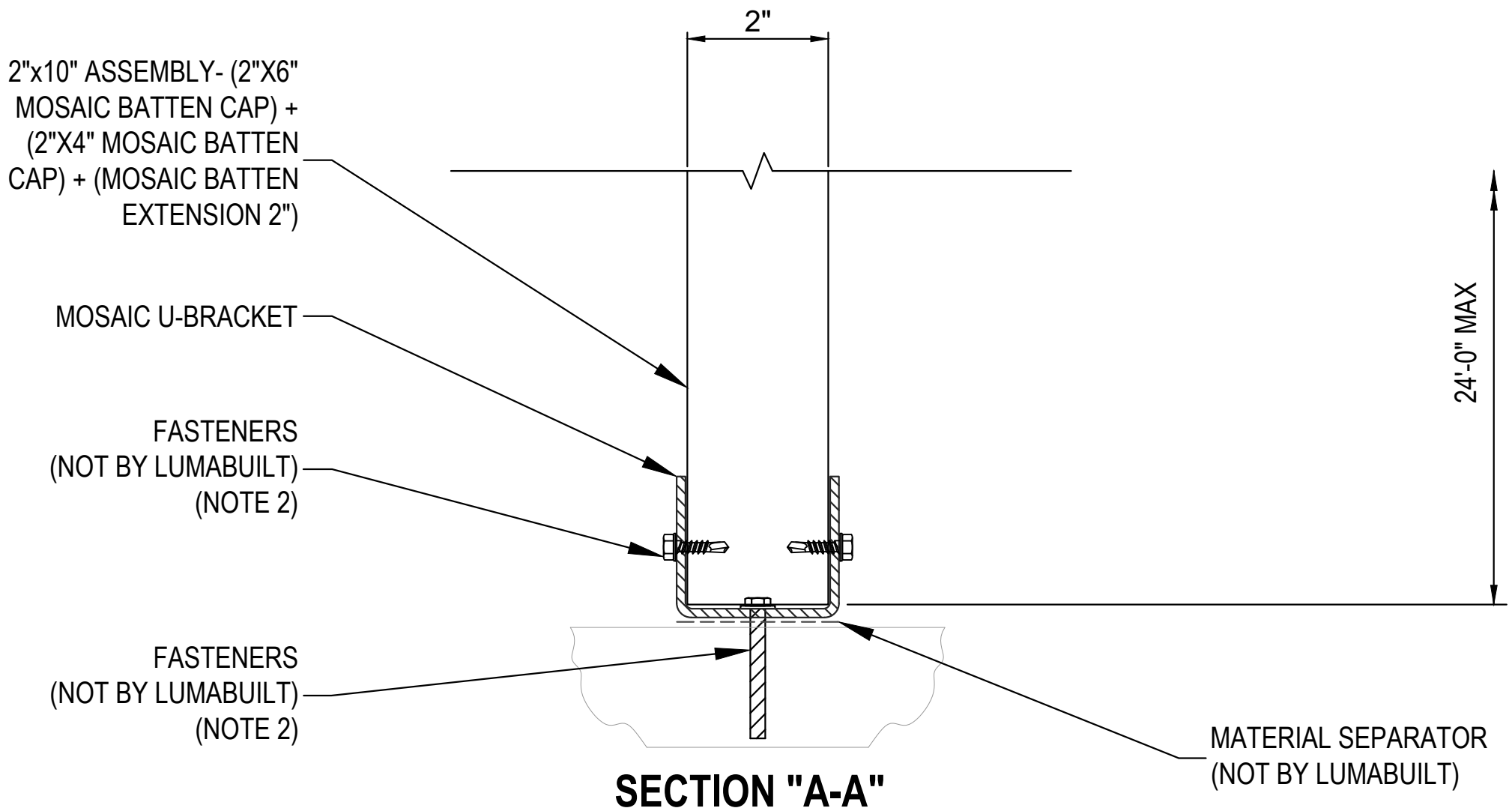


SECTION "A-A"



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3. BRACKET SPACING TO BE DETERMINED BY THE PROJECT ENGINEER.



NOTES

1. BATTENS SHOWN CAN BE USED IN VERTICAL & HORIZONTAL APPLICATIONS.
2. FASTENER SIZE AND TYPE TO BE DETERMINED BY PROJECT ENGINEER.



2529 W. Jackson St.
Phoenix, AZ 85009
PHONE: (602) 275-1676

BATTEN 2"x10" ASSEMBLY @ BASE

SCALE: NTS

03/05/26

BLH-D2.20

SYSTEM = MOSAIC BATTENS

2"x16" ASSEMBLY-
(2"x8" MOSAIC
BATTEN CAP) +
(2"x8" MOSAIC
BATTEN CAP) +
(MOSAIC BATTEN
EXTENSION 2")

MOSAIC
U-BRACKET

FASTENERS
(NOT BY
LUMABUILT)
(NOTE 2)

FASTENERS
(NOT BY
LUMABUILT)
(NOTE 2)

2"

24'-0" MAX

MATERIAL
SEPARATOR
(NOT BY
LUMABUILT)

SECTION "A-A"

16"

2"x16"
ASSEMBLY-
(2"x8" MOSAIC
BATTEN CAP) +
(2"x8" MOSAIC
BATTEN CAP) +
(MOSAIC
BATTEN
EXTENSION 2")

MOSAIC
U-BRACKET

FASTENERS
(4 PLACES)
(NOT BY
LUMABUILT)
(NOTE 2)

FASTENERS
(2 PLACES)
(NOT BY
LUMABUILT)
(NOTE 2)

24'-0" MAX

MATERIAL
SEPARATOR
(NOT BY
LUMABUILT)

NO END CAP
SHOWN

A

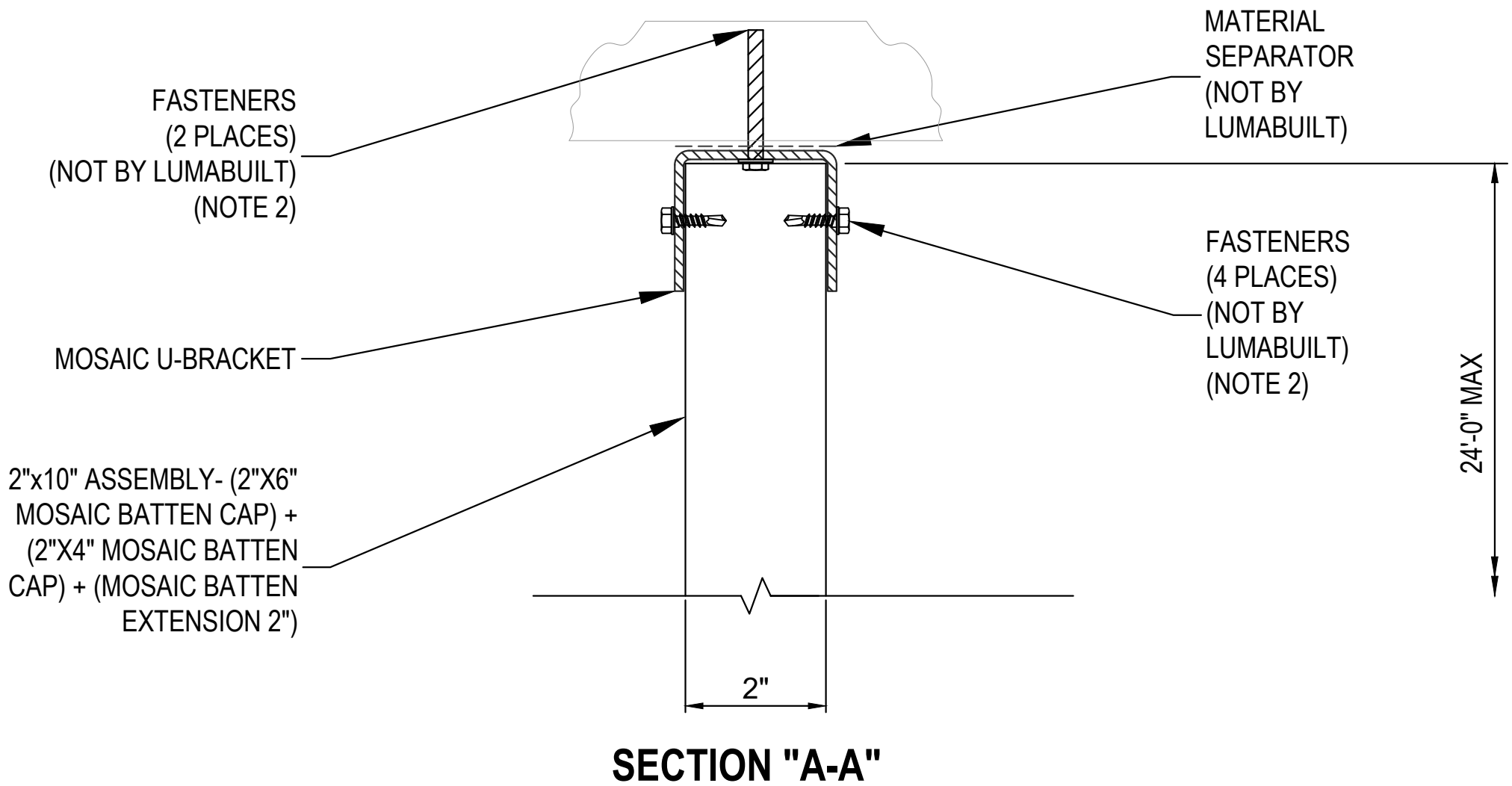
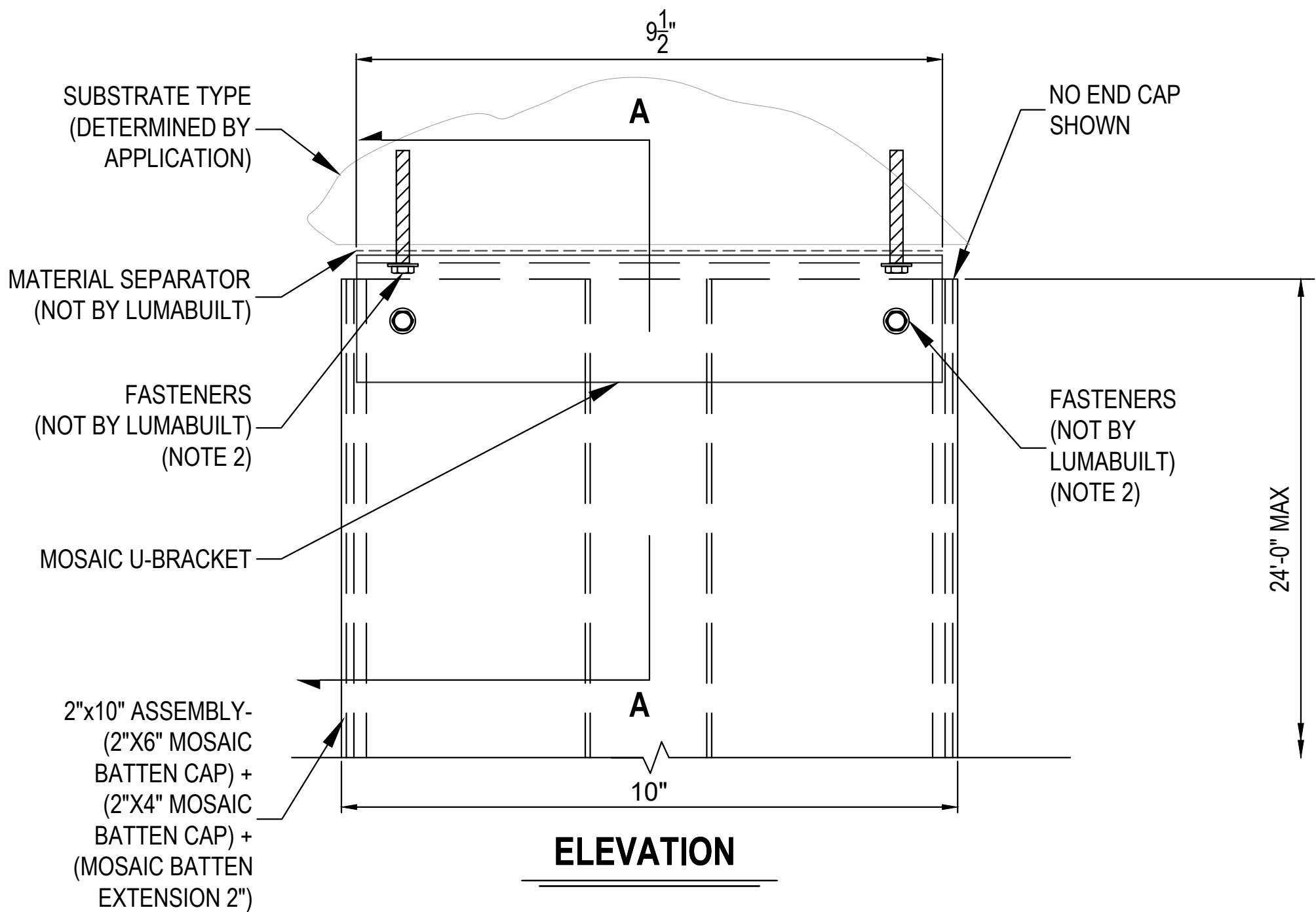
15 1/2"

ELEVATION

SUBSTRATE TYPE
(DETERMINED BY
APPLICATION)

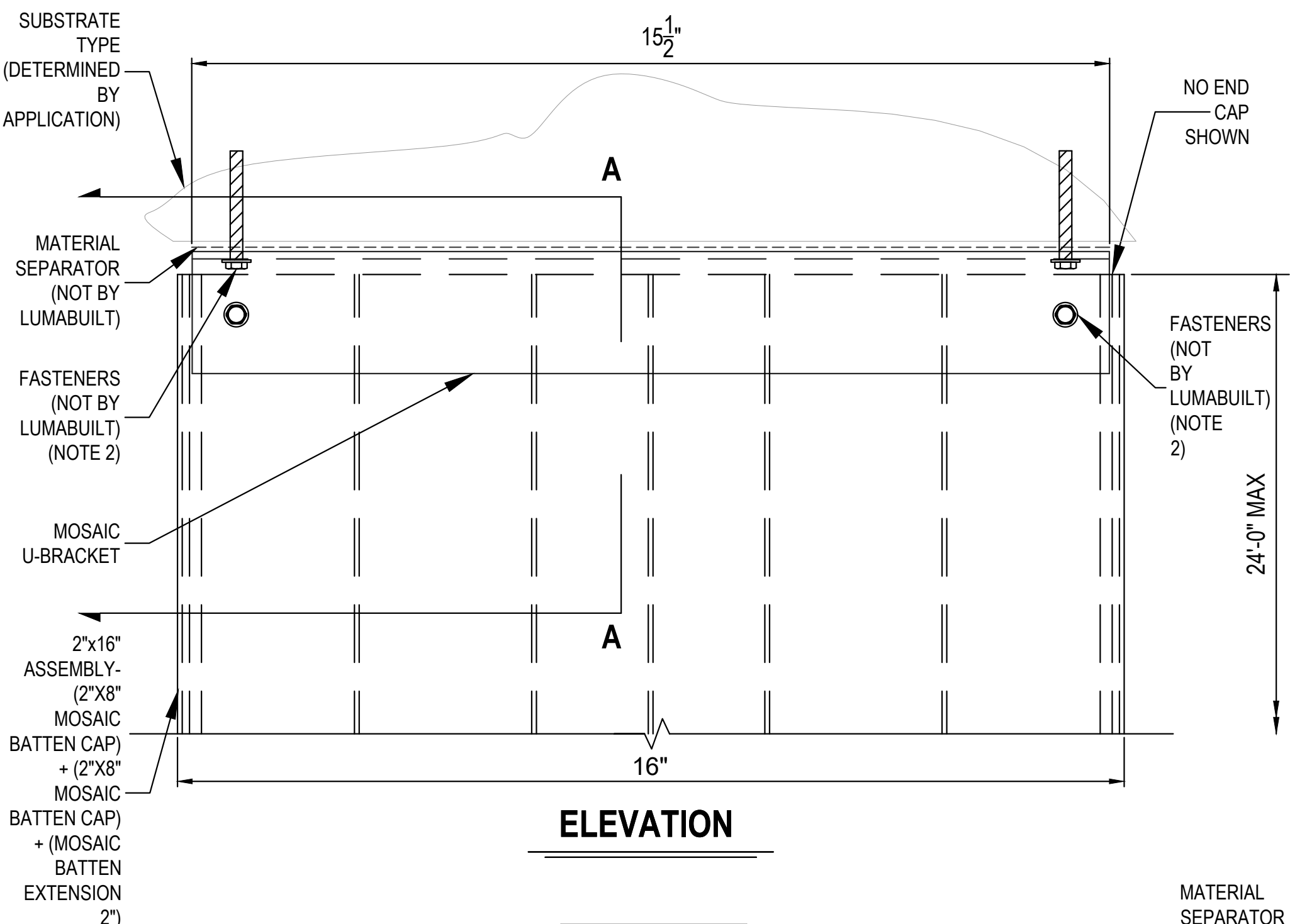
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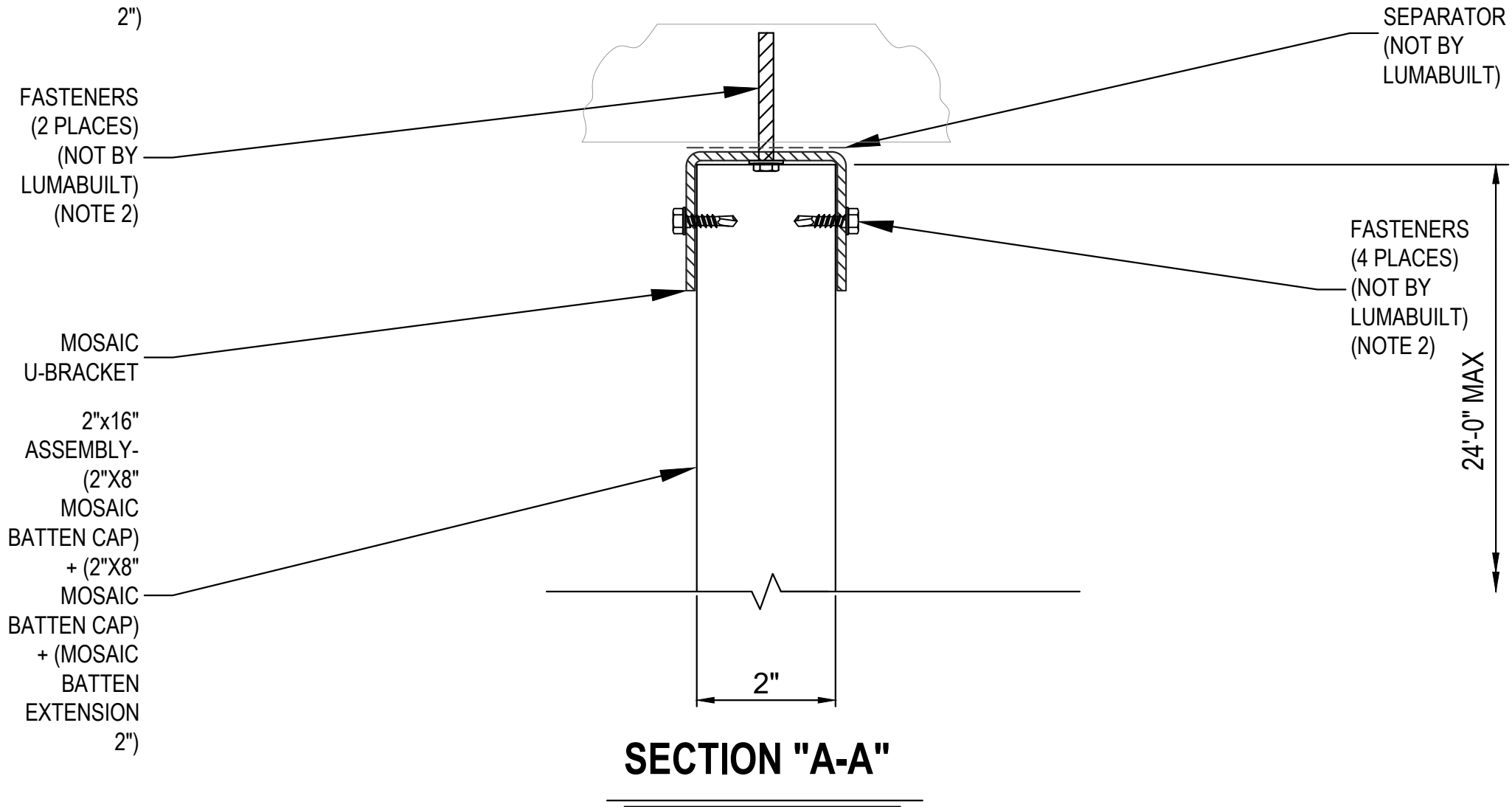


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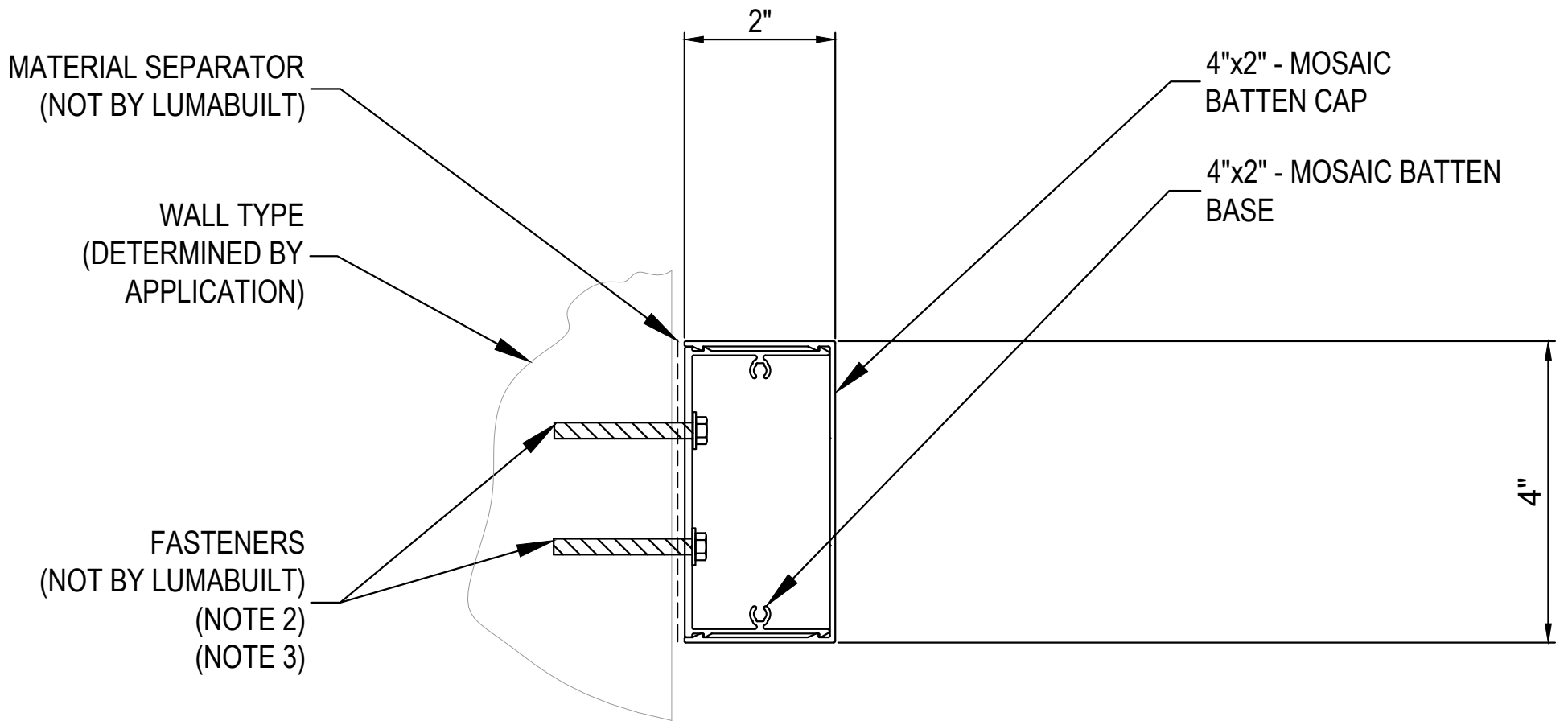
ELEVATION



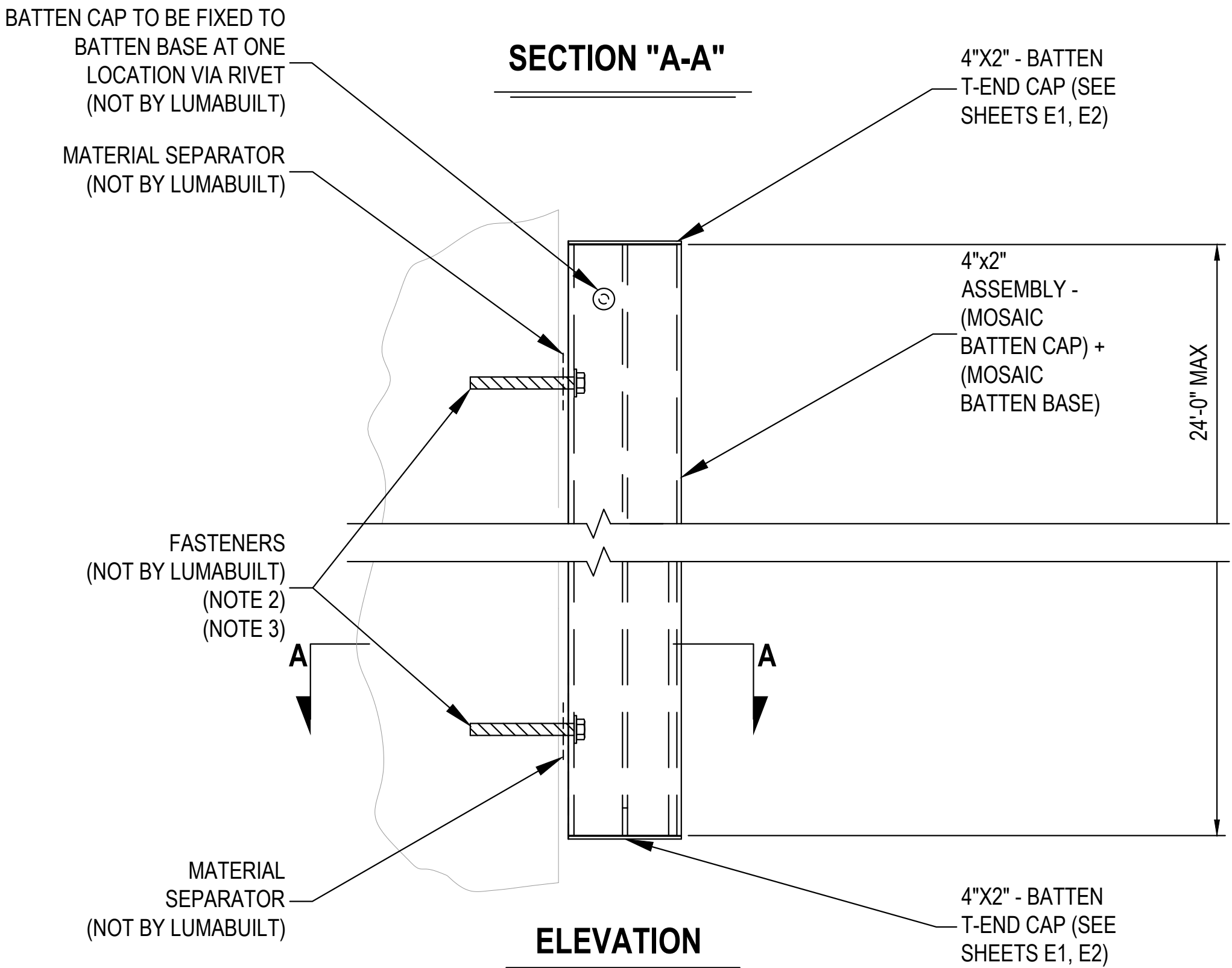
SECTION "A-A"

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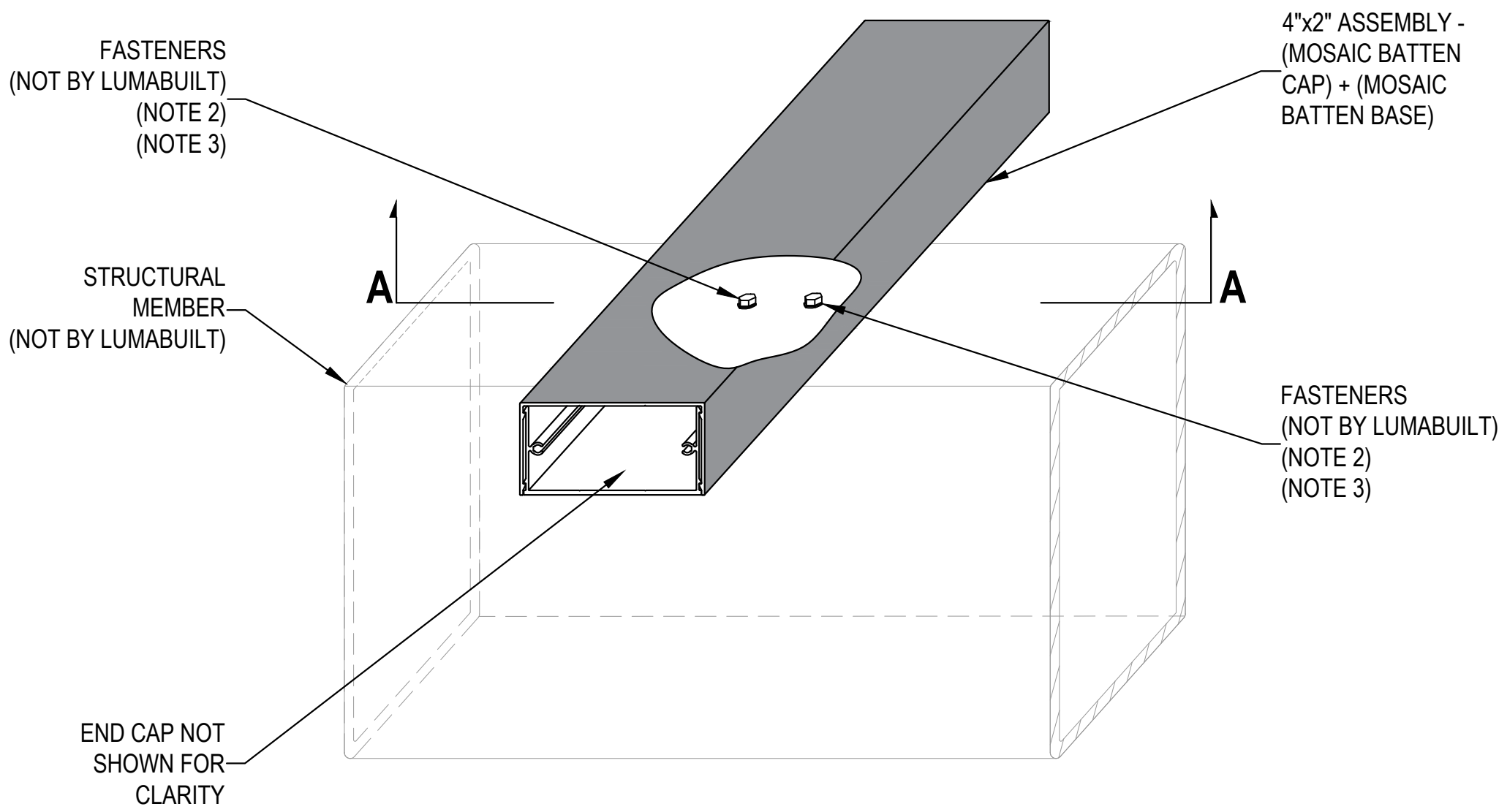
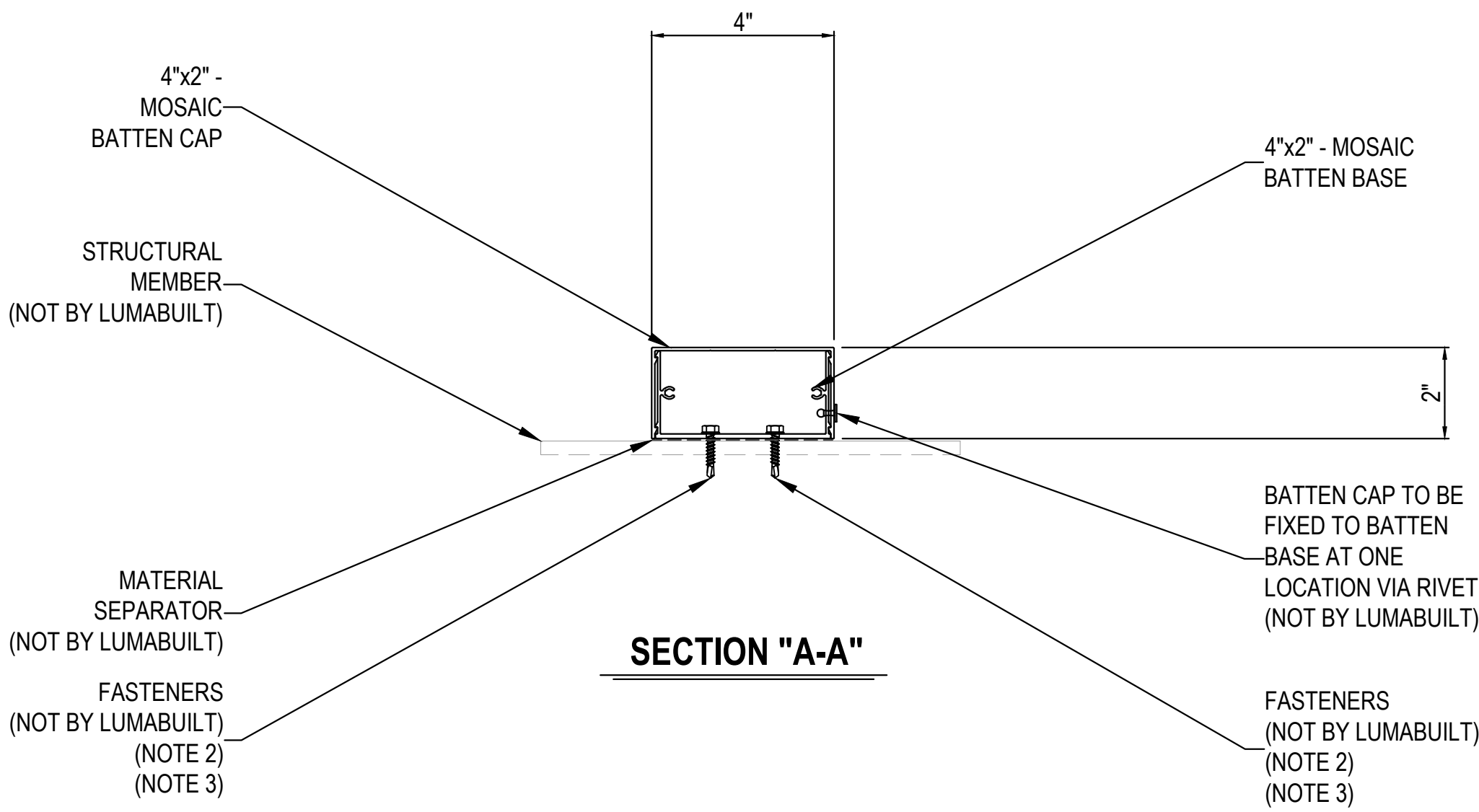


SECTION "A-A"



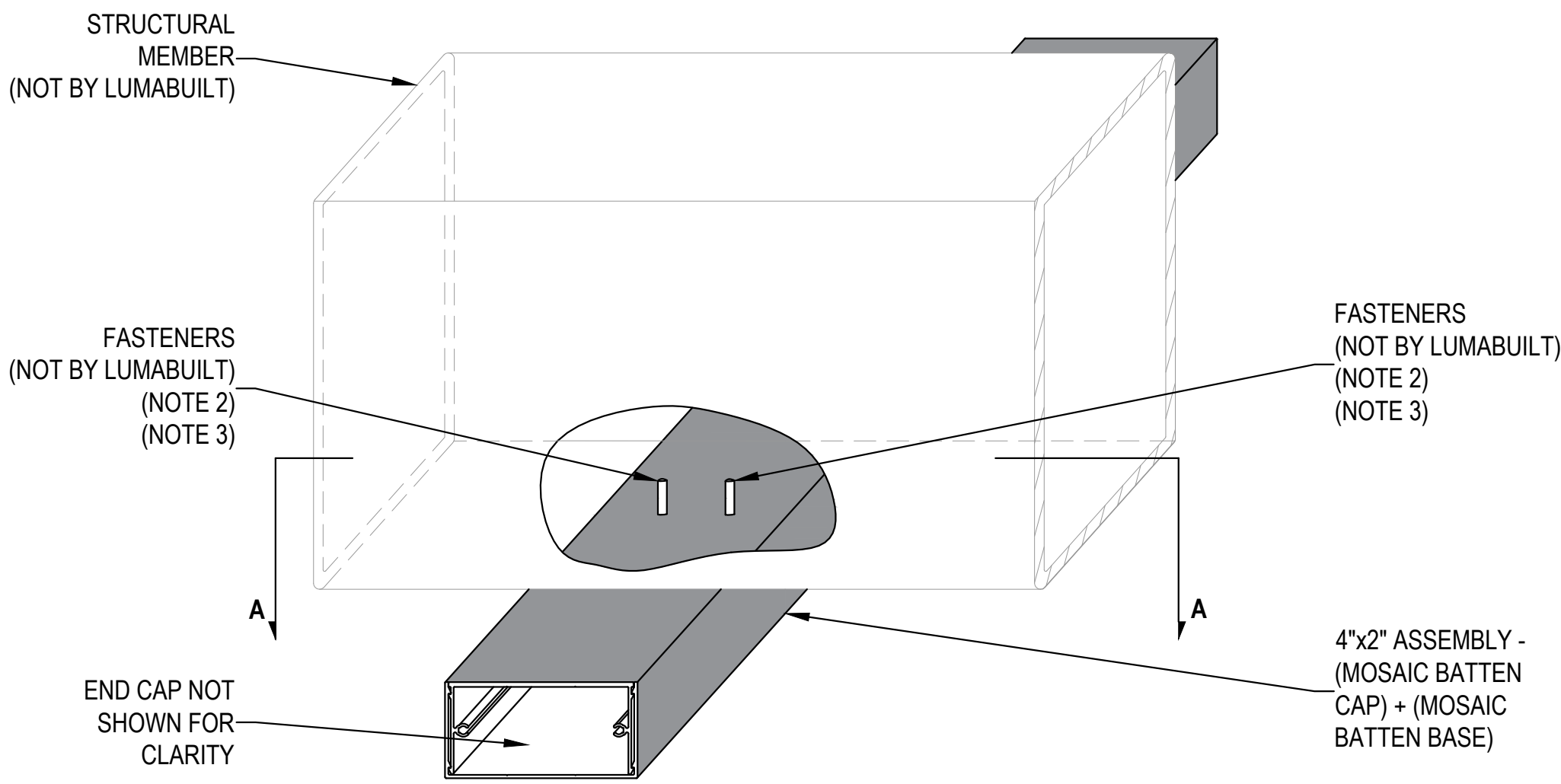
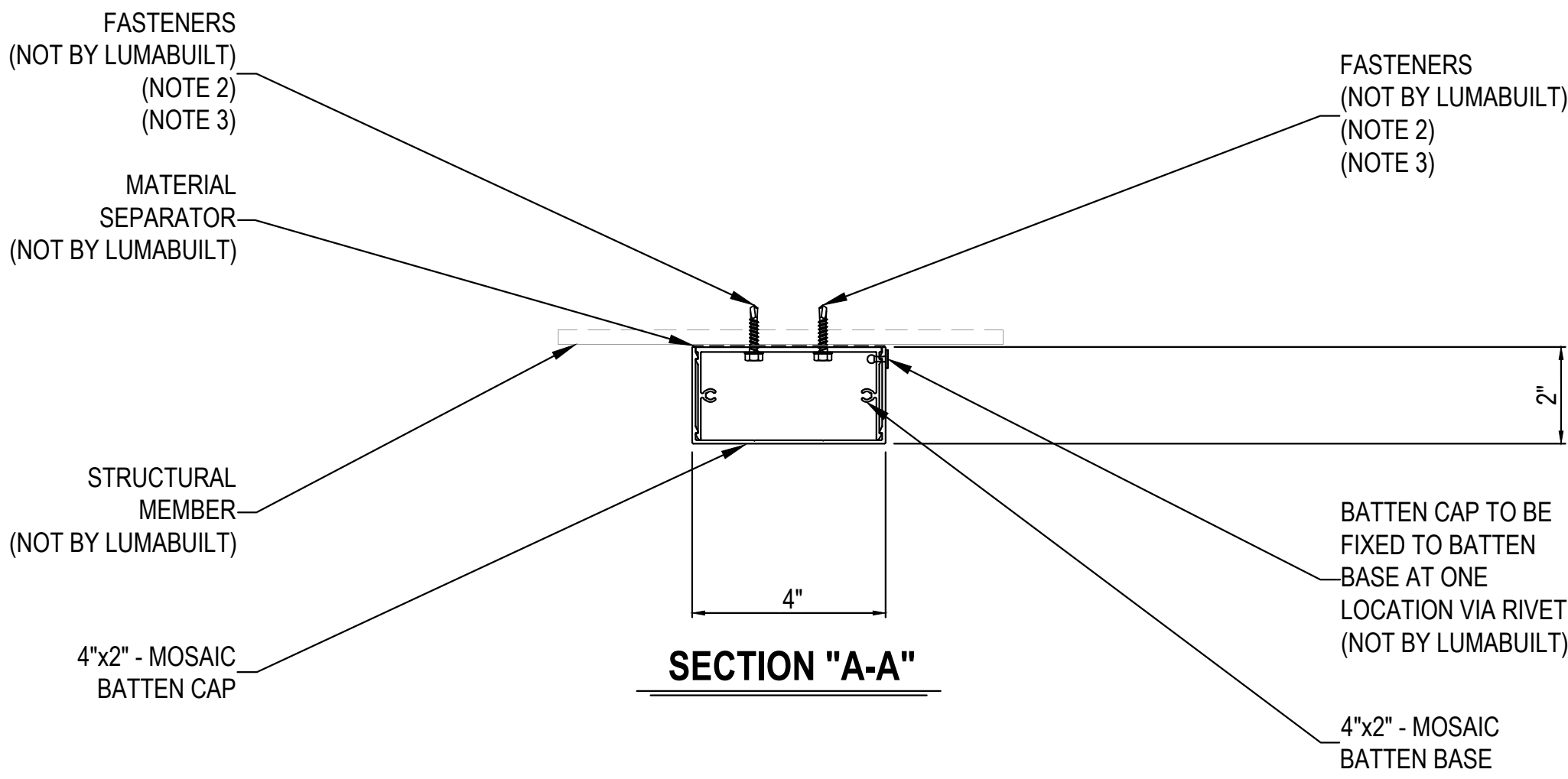
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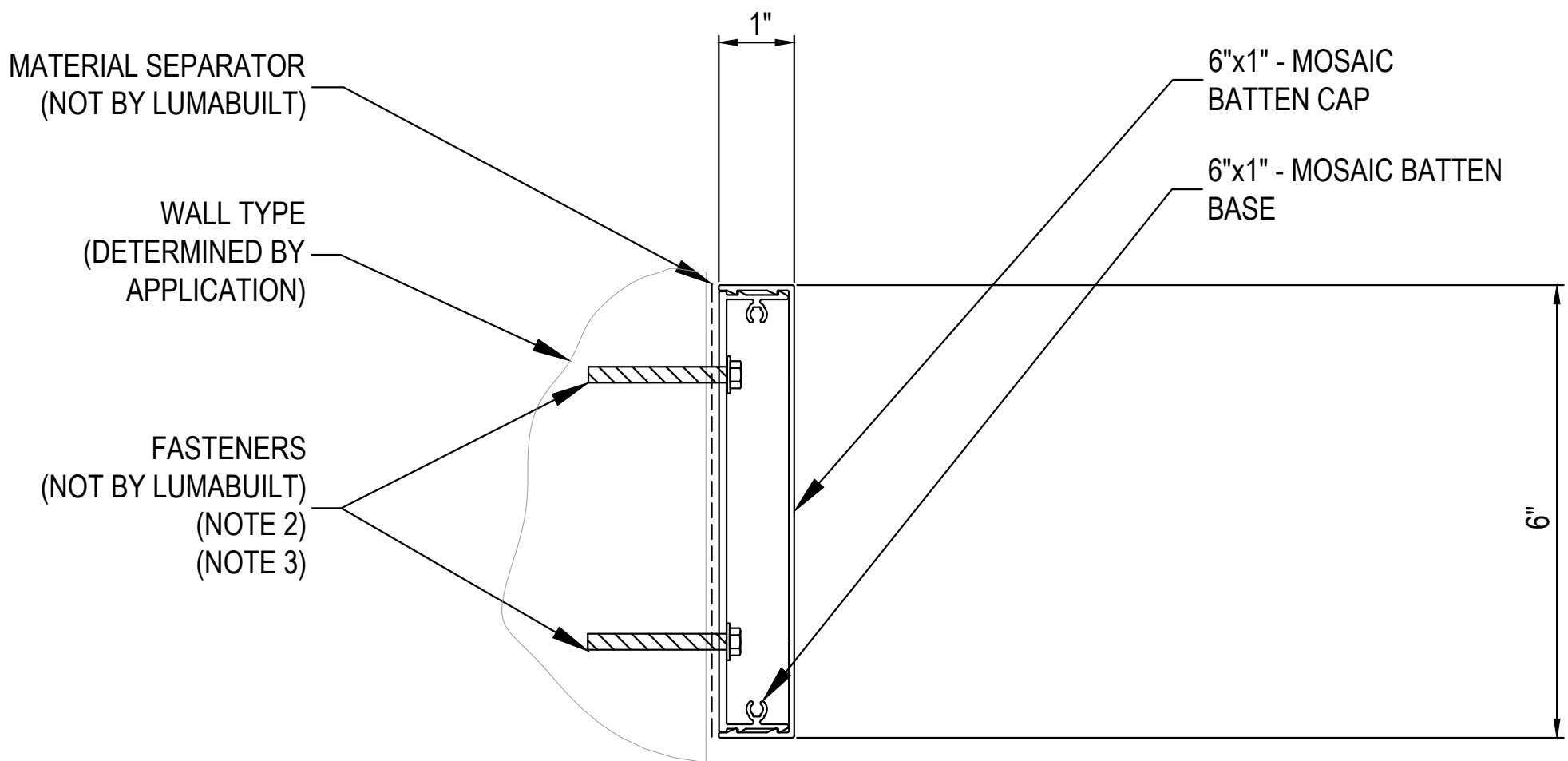
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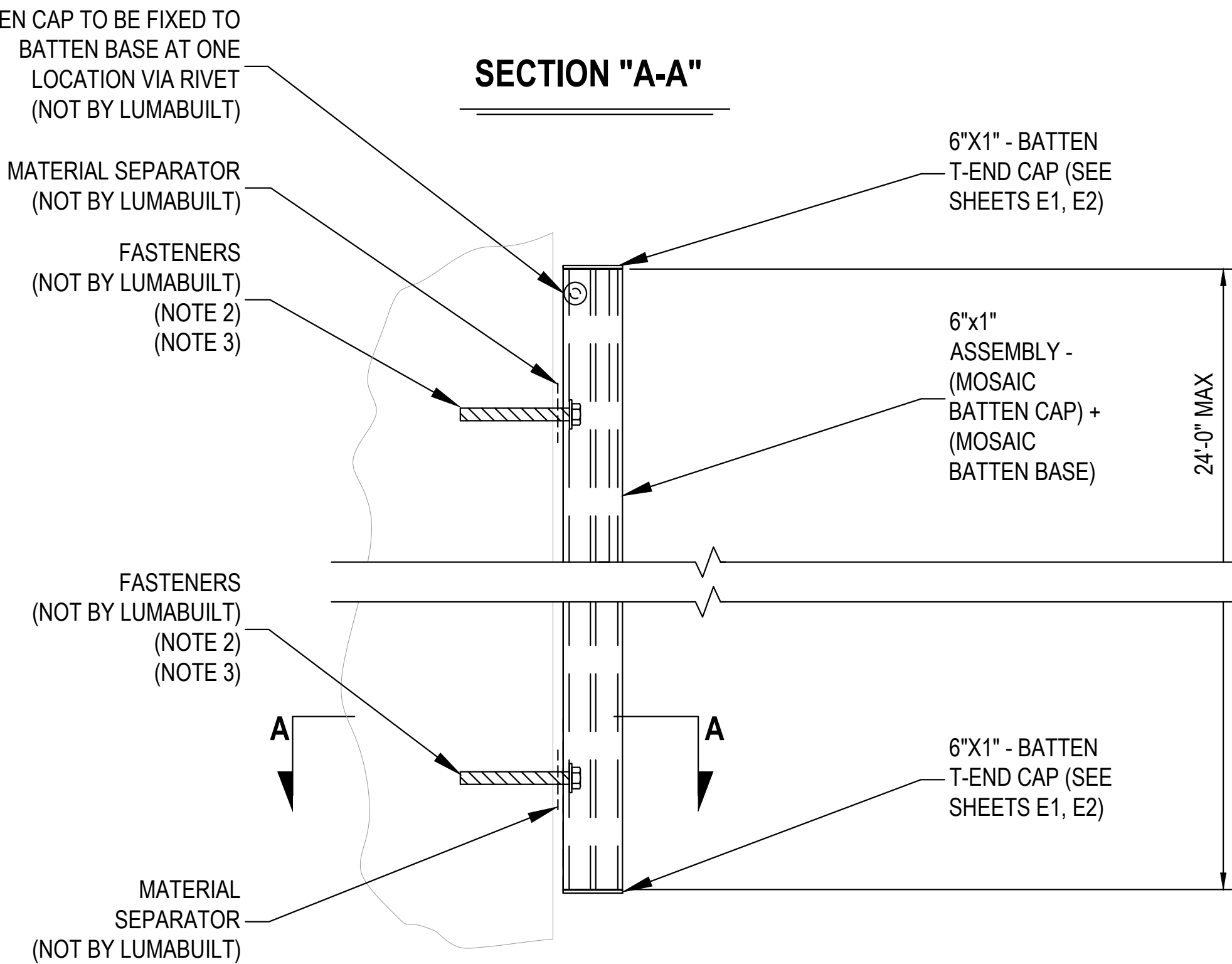


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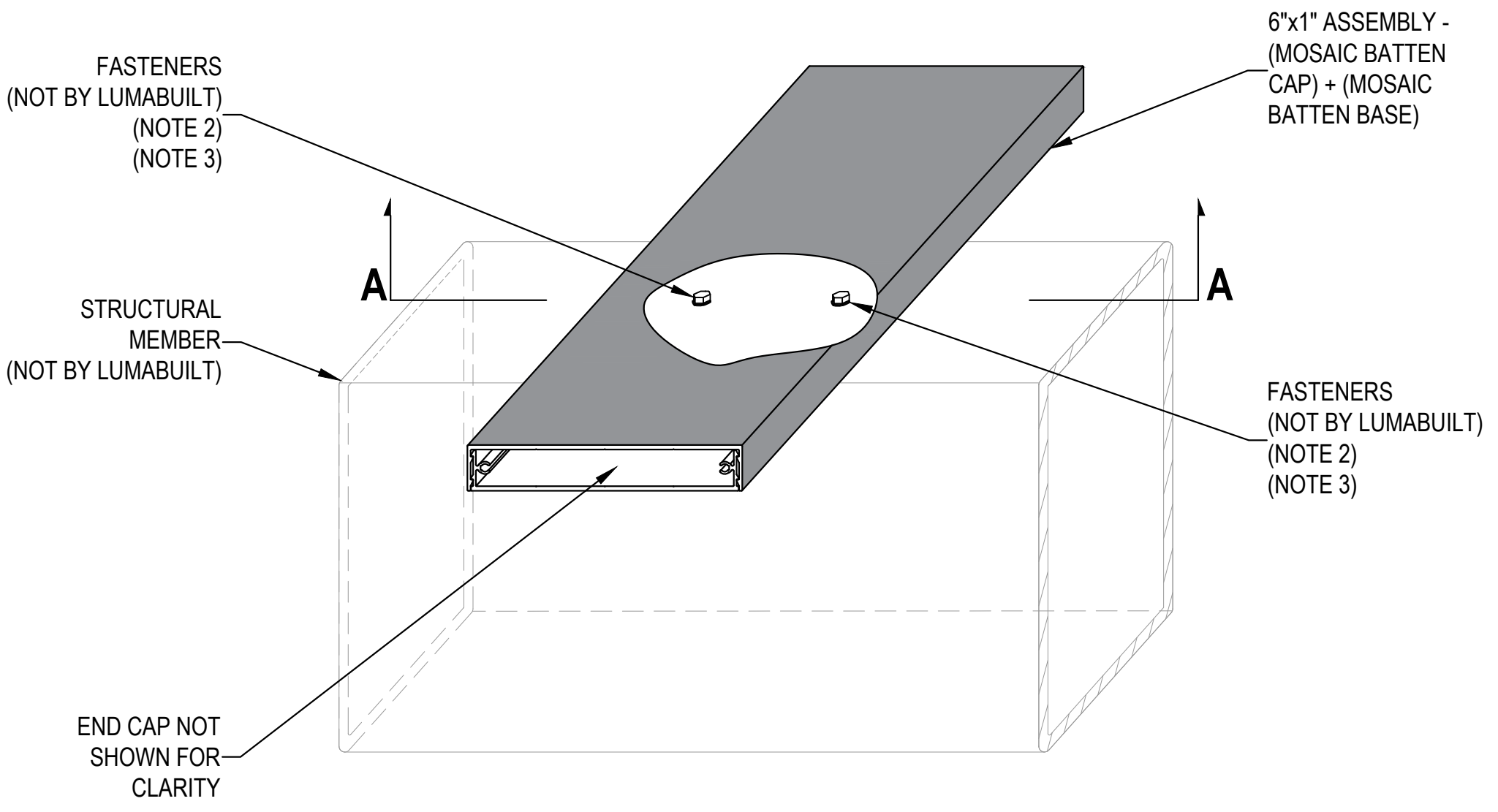
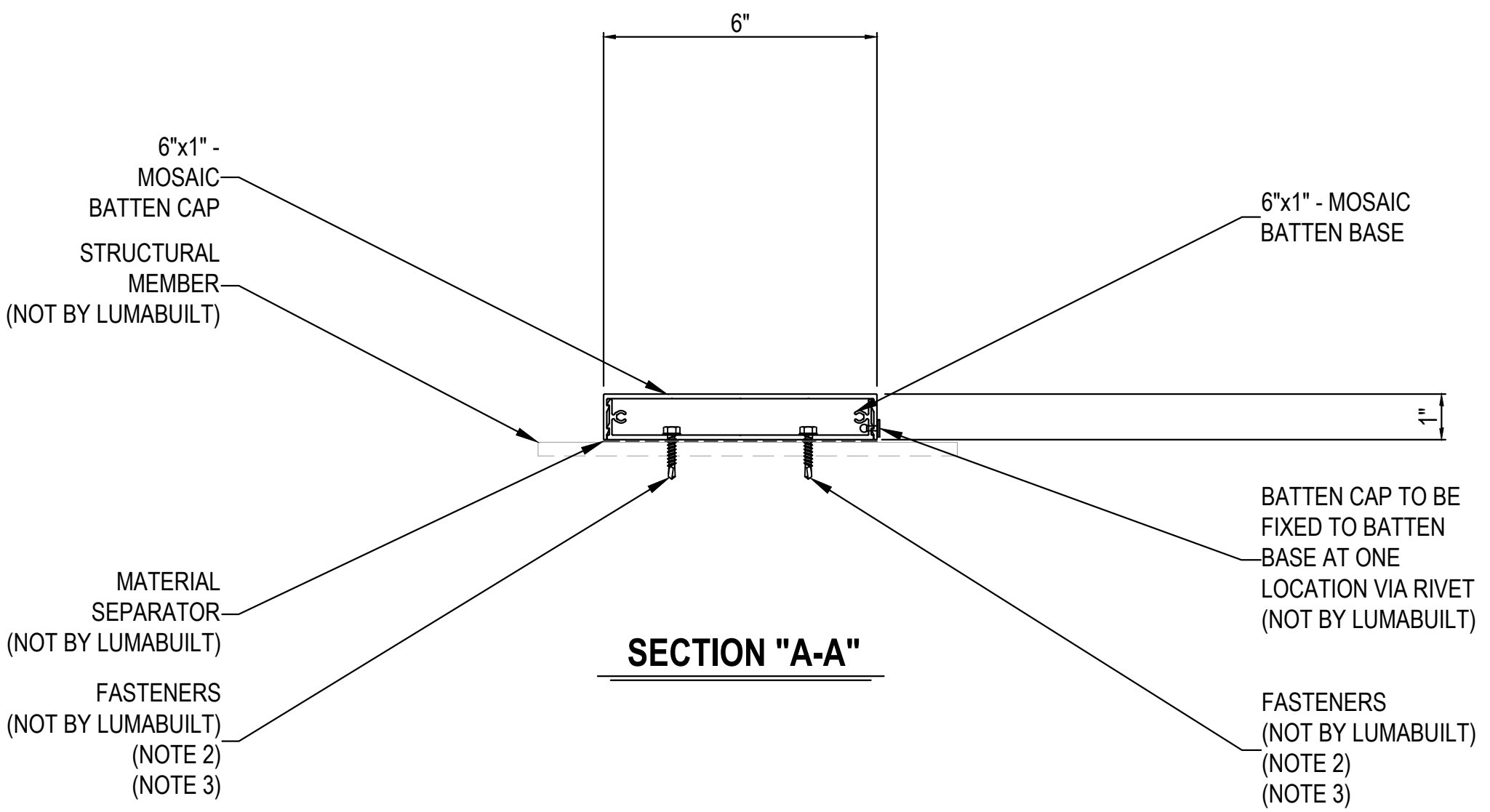
SECTION "A-A"



ELEVATION

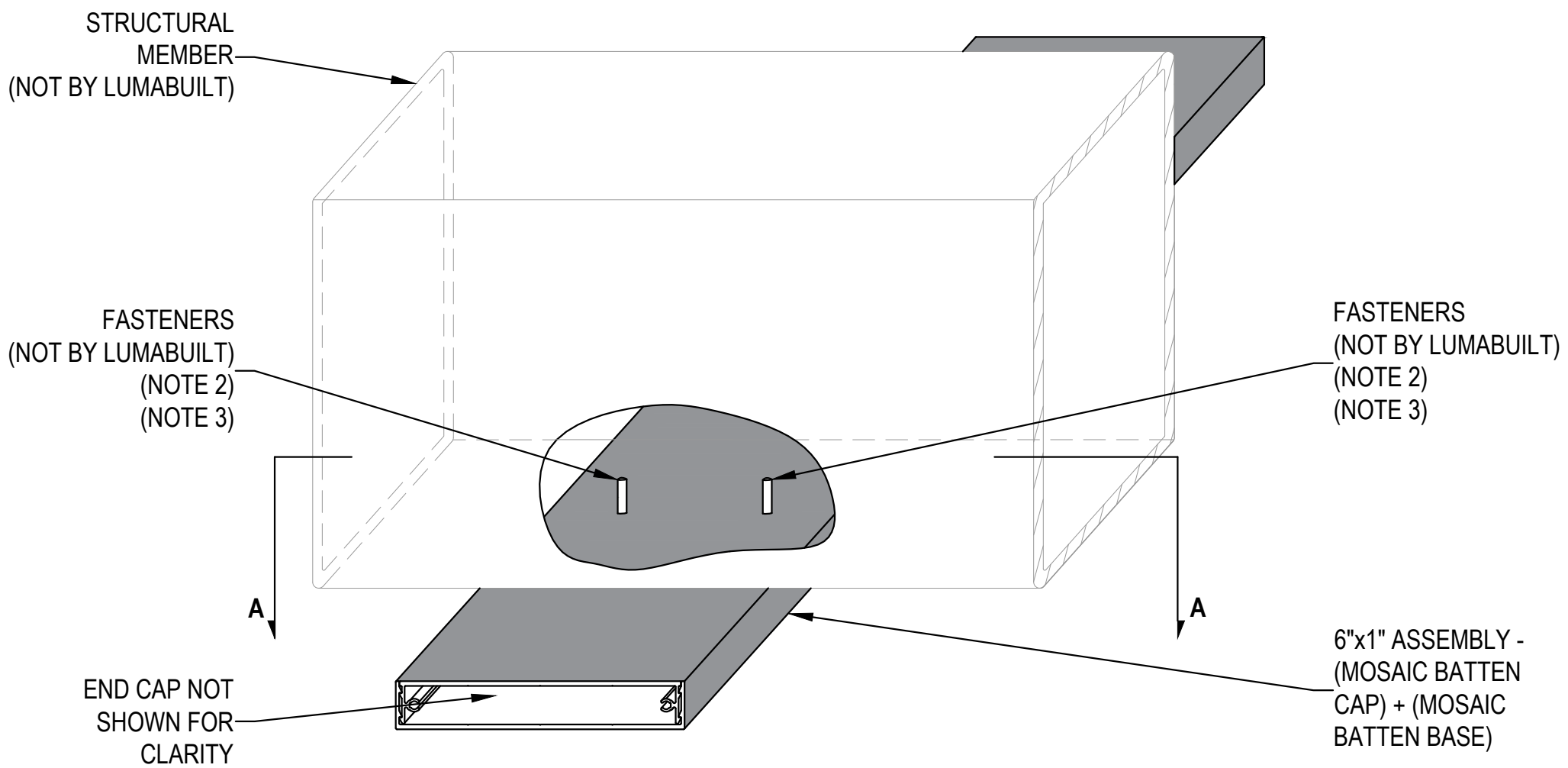
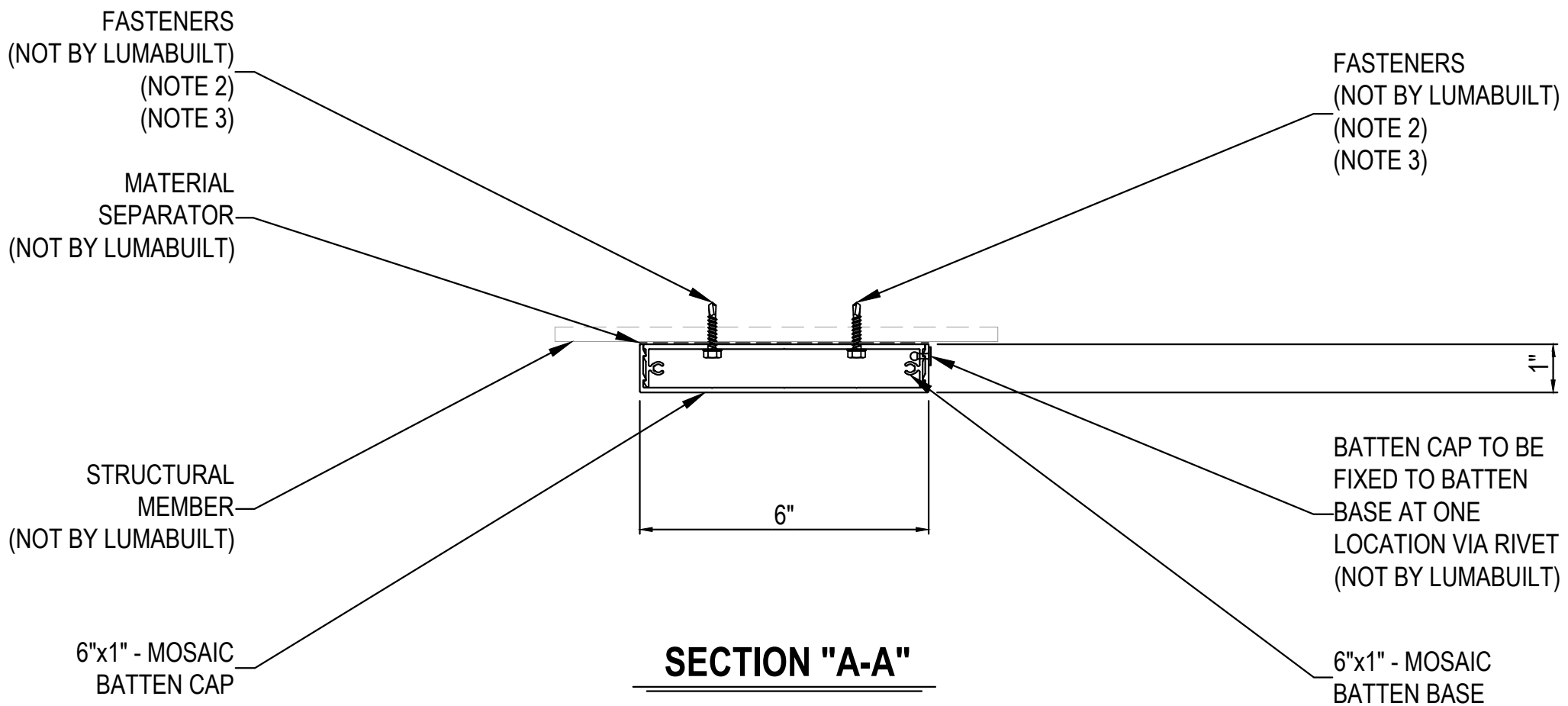
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