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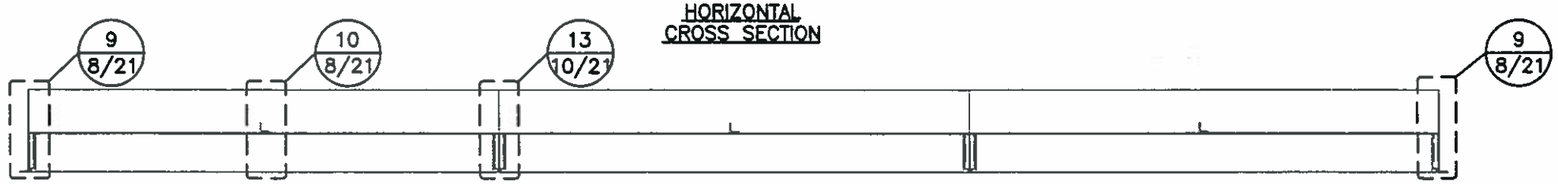

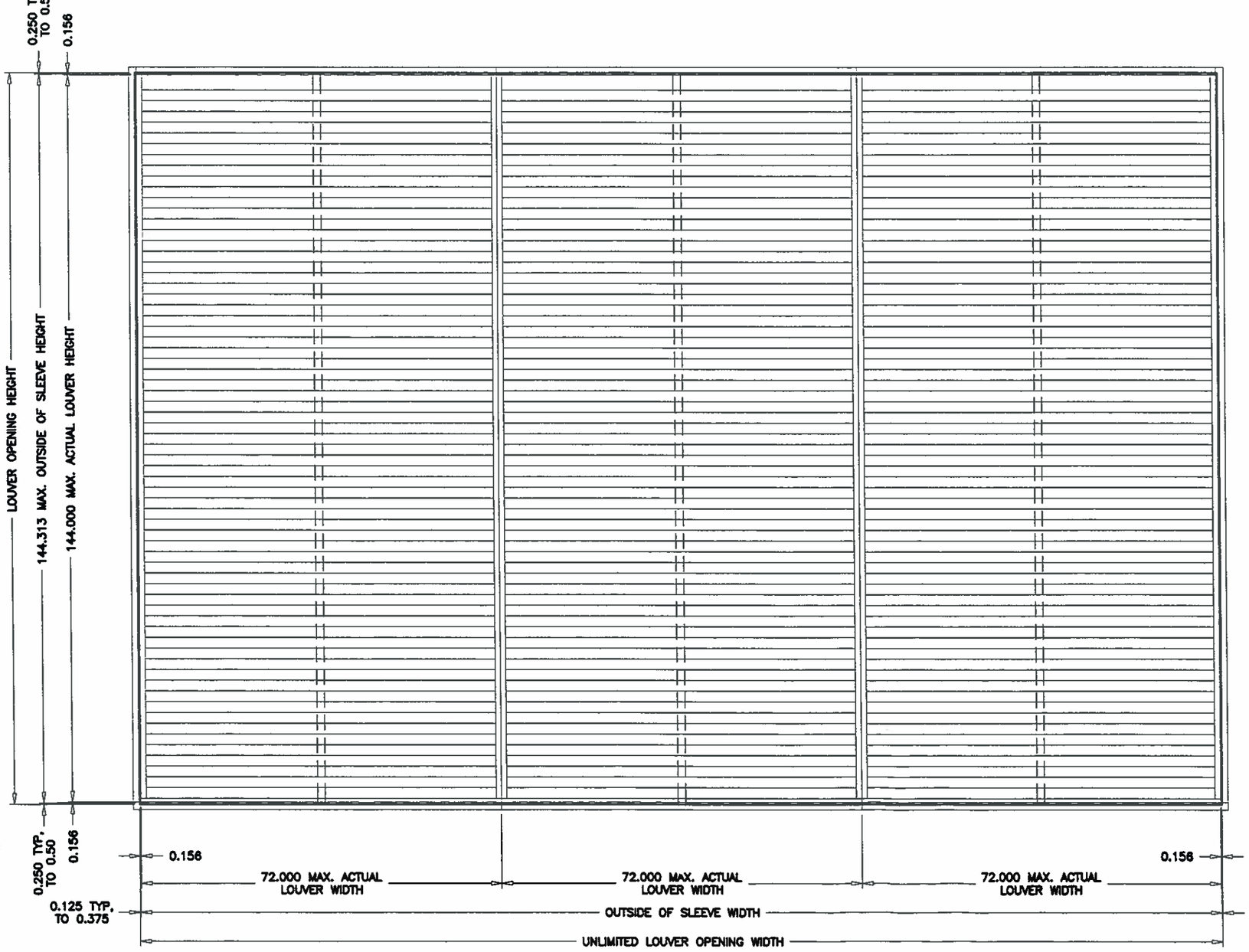

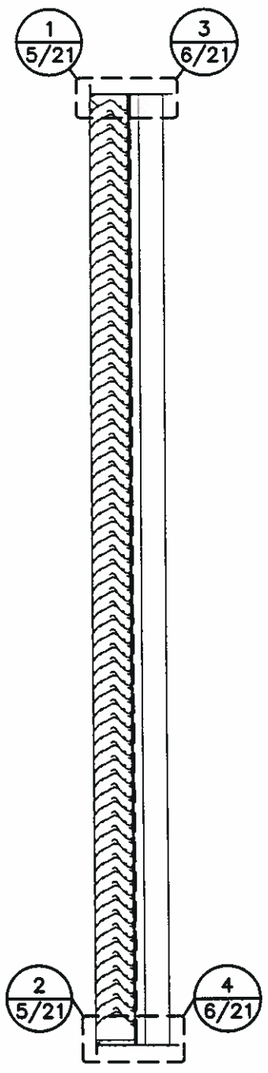

VERTICAL
CROSS SECTION

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DATE	8/25/2010
SCALE	1:24
SHEET NO.	1 OF 21
CAD DRAWING NO.	SCH601MD

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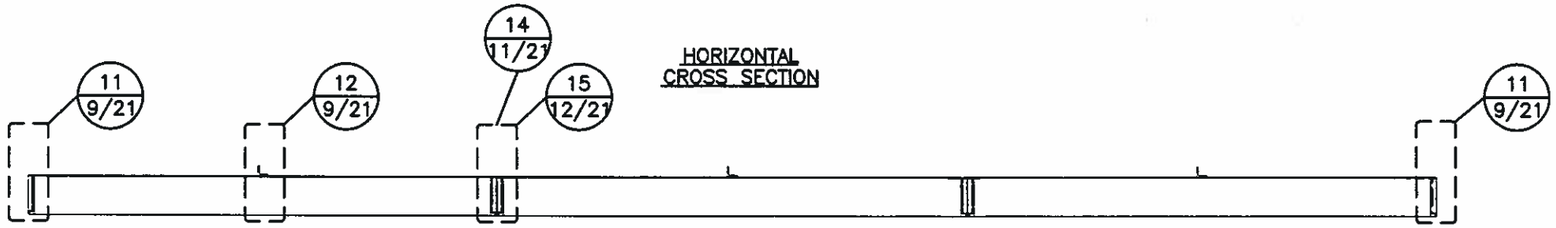
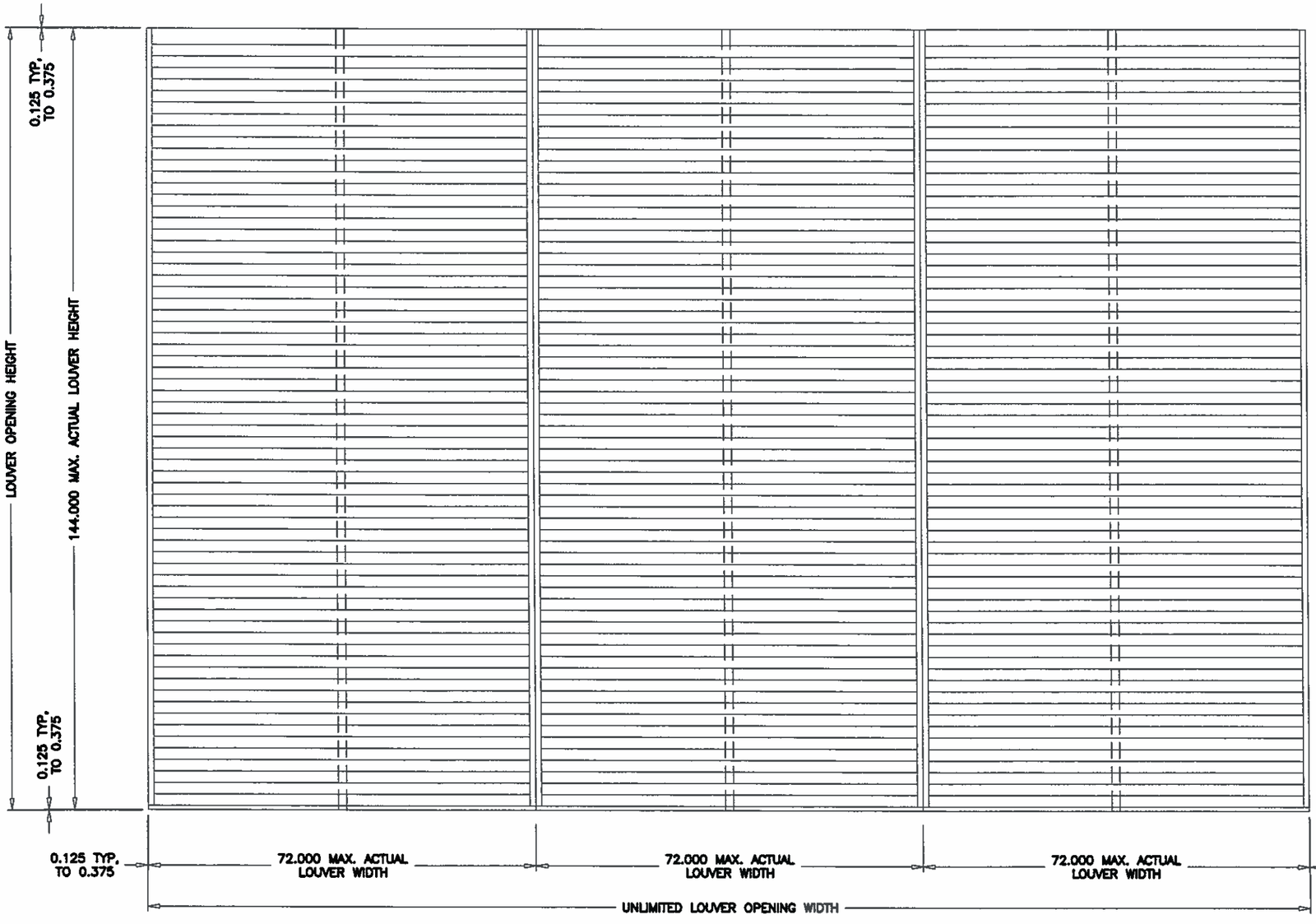
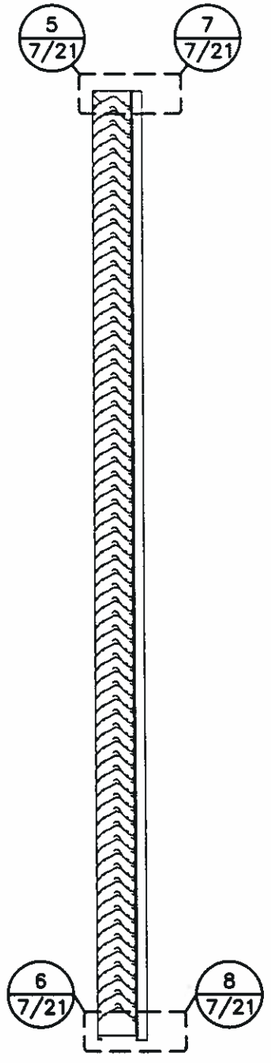


HORIZONTAL
CROSS SECTION





VERTICAL
CROSS SECTION

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DATE	8/25/2010
SCALE	1:24
SHEET NO.	2 OF 21
CAD DRAWING NO.	SCH601MD

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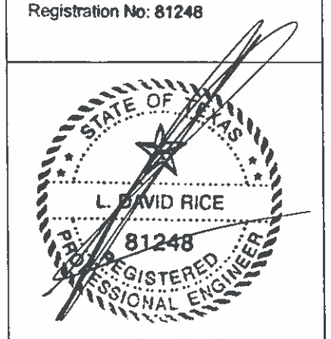

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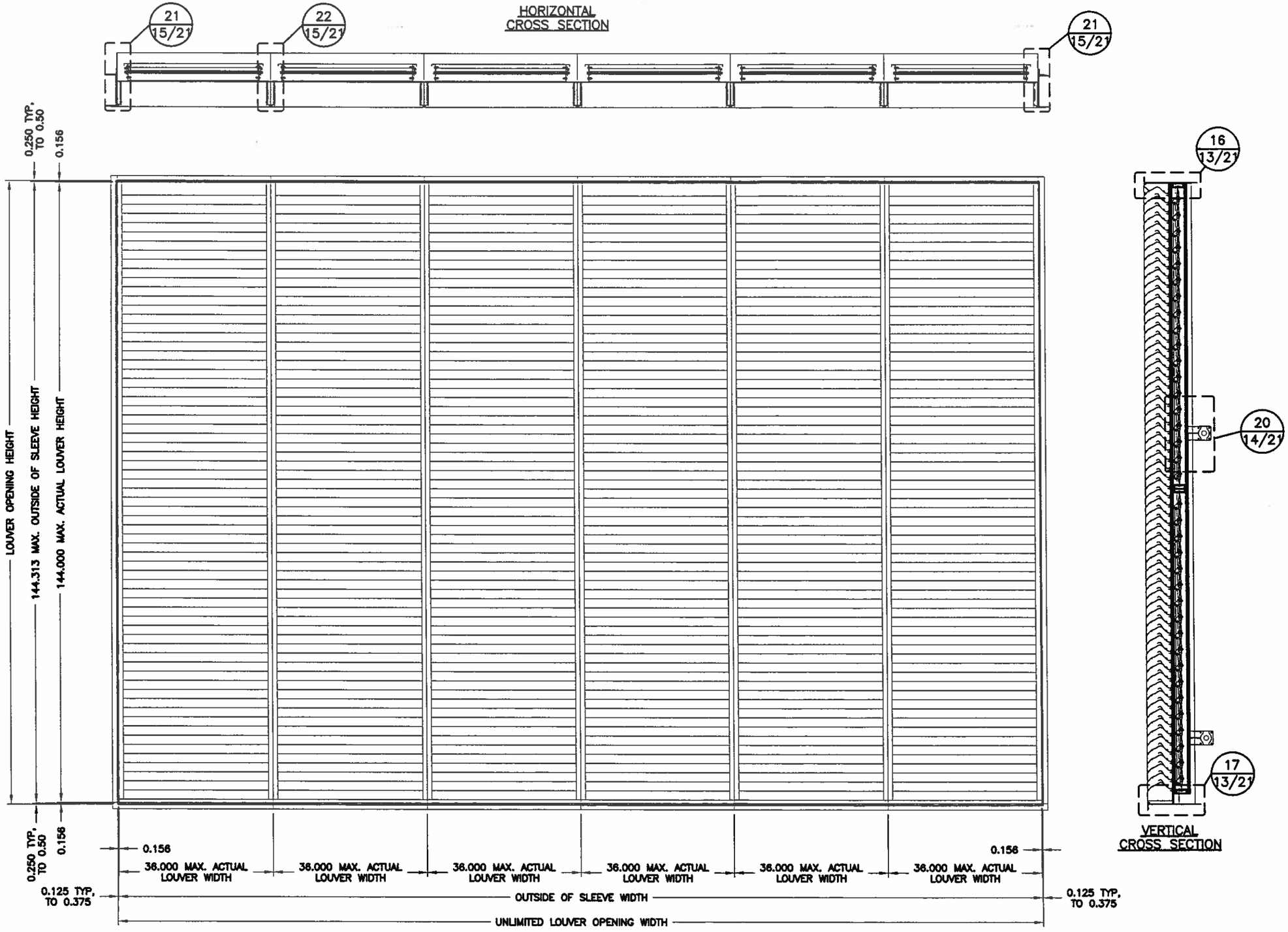

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SCALE 1:24 | SHEET NO. 3 OF 21
CAD DRAWING NO. SCH601MD

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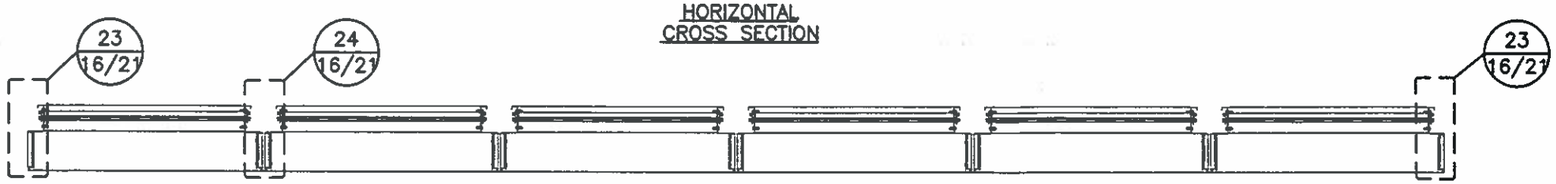
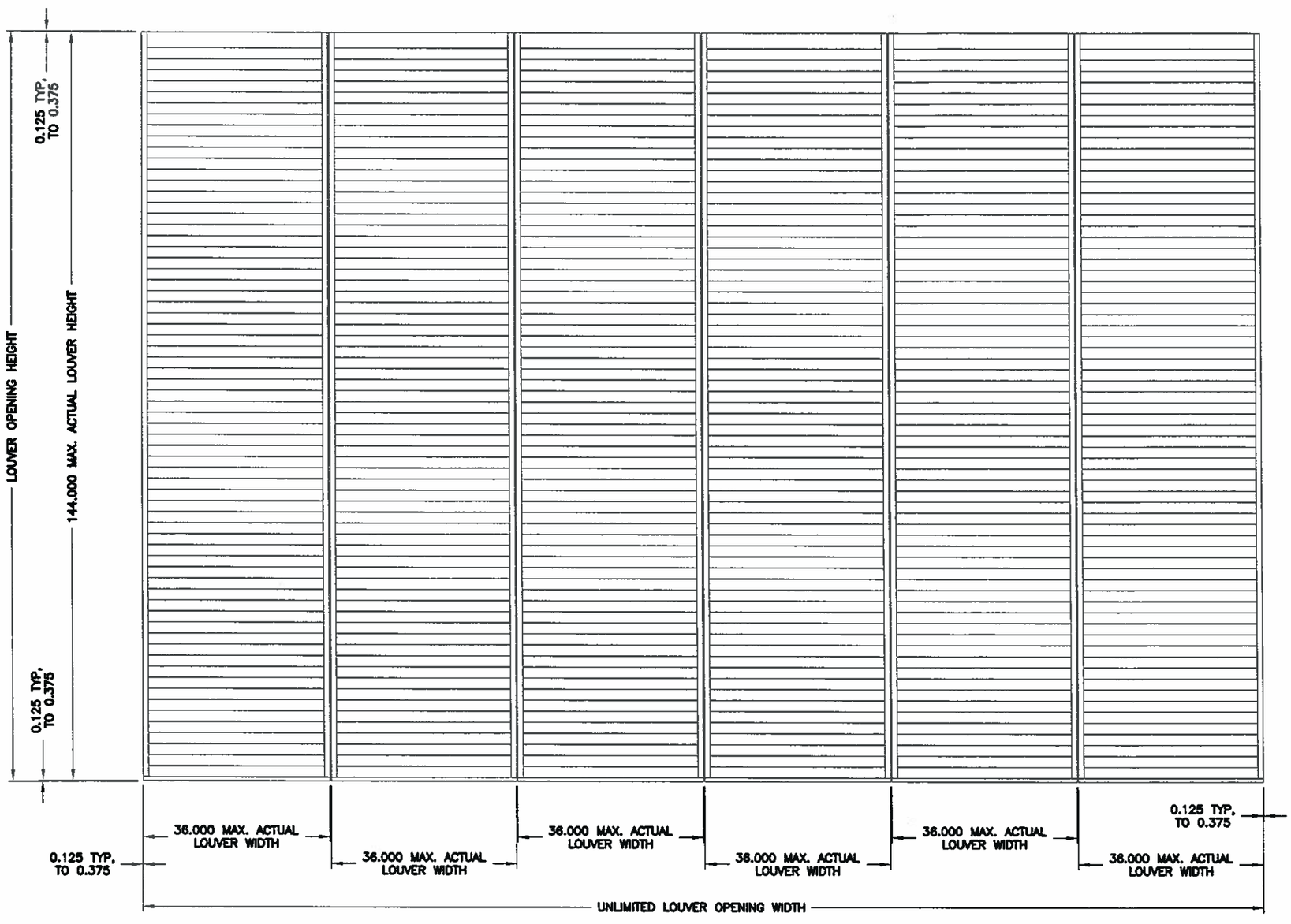
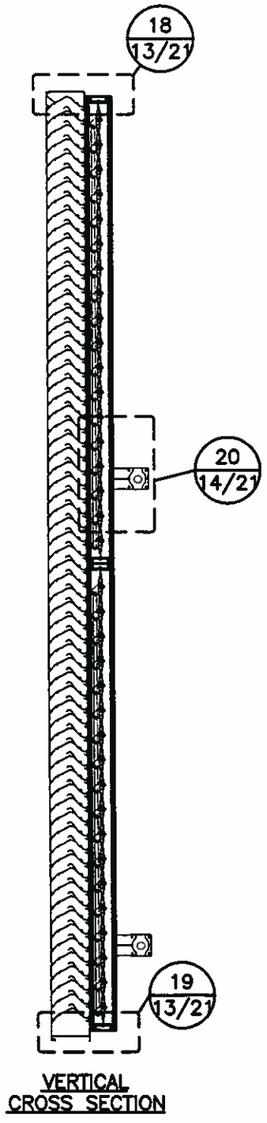
HORIZONTAL
CROSS SECTION







VERTICAL
CROSS SECTION

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SHEET NO.	4 OF 21
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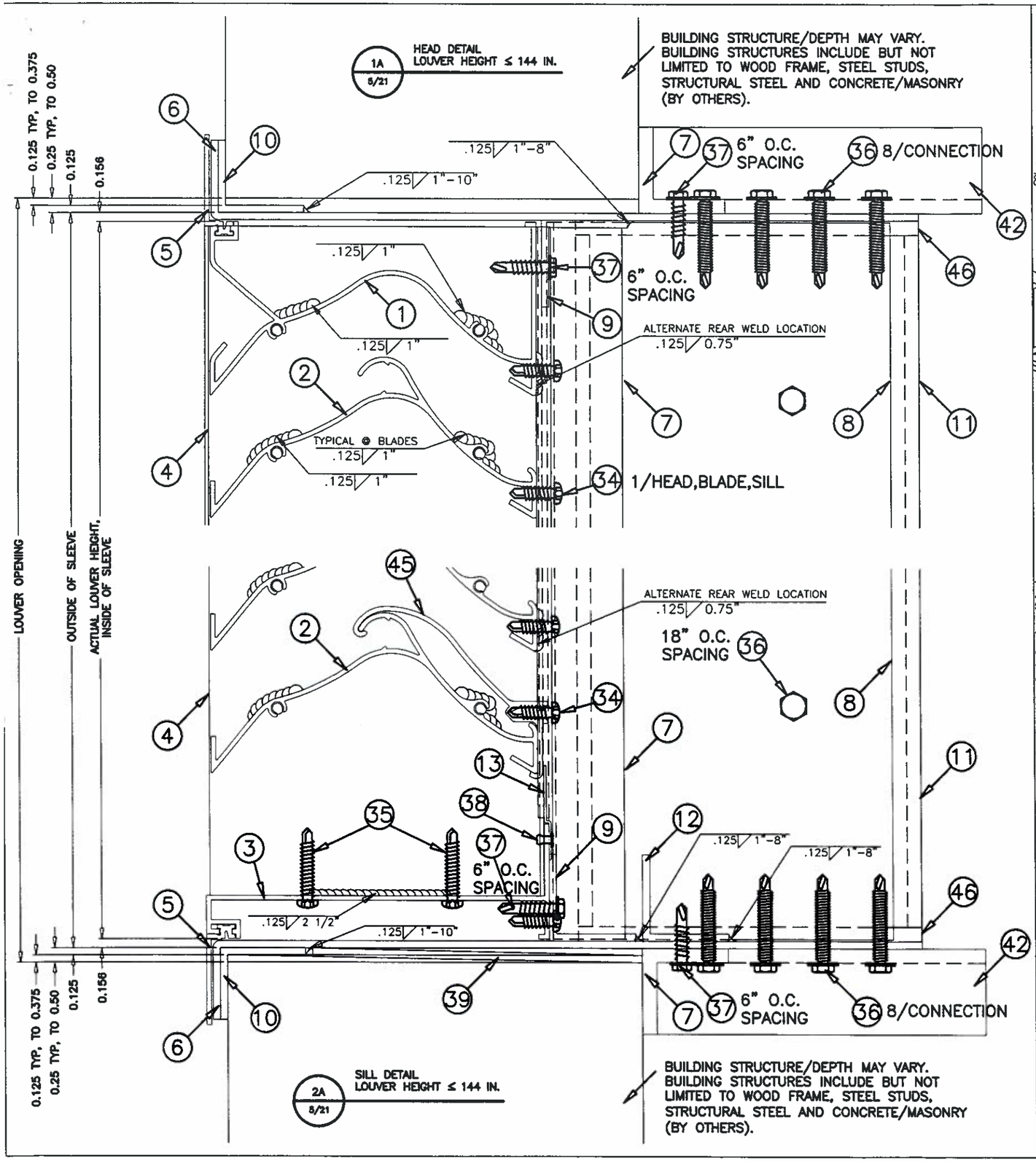

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SCALE 1:2 | SHEET NO. 5 OF 21
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TITLE
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HEAD & SILL DETAILS, H≤144"

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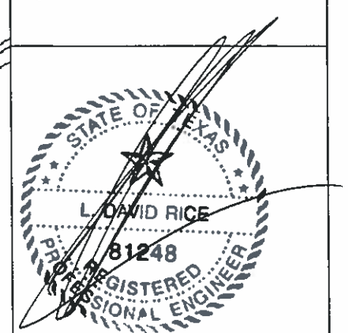

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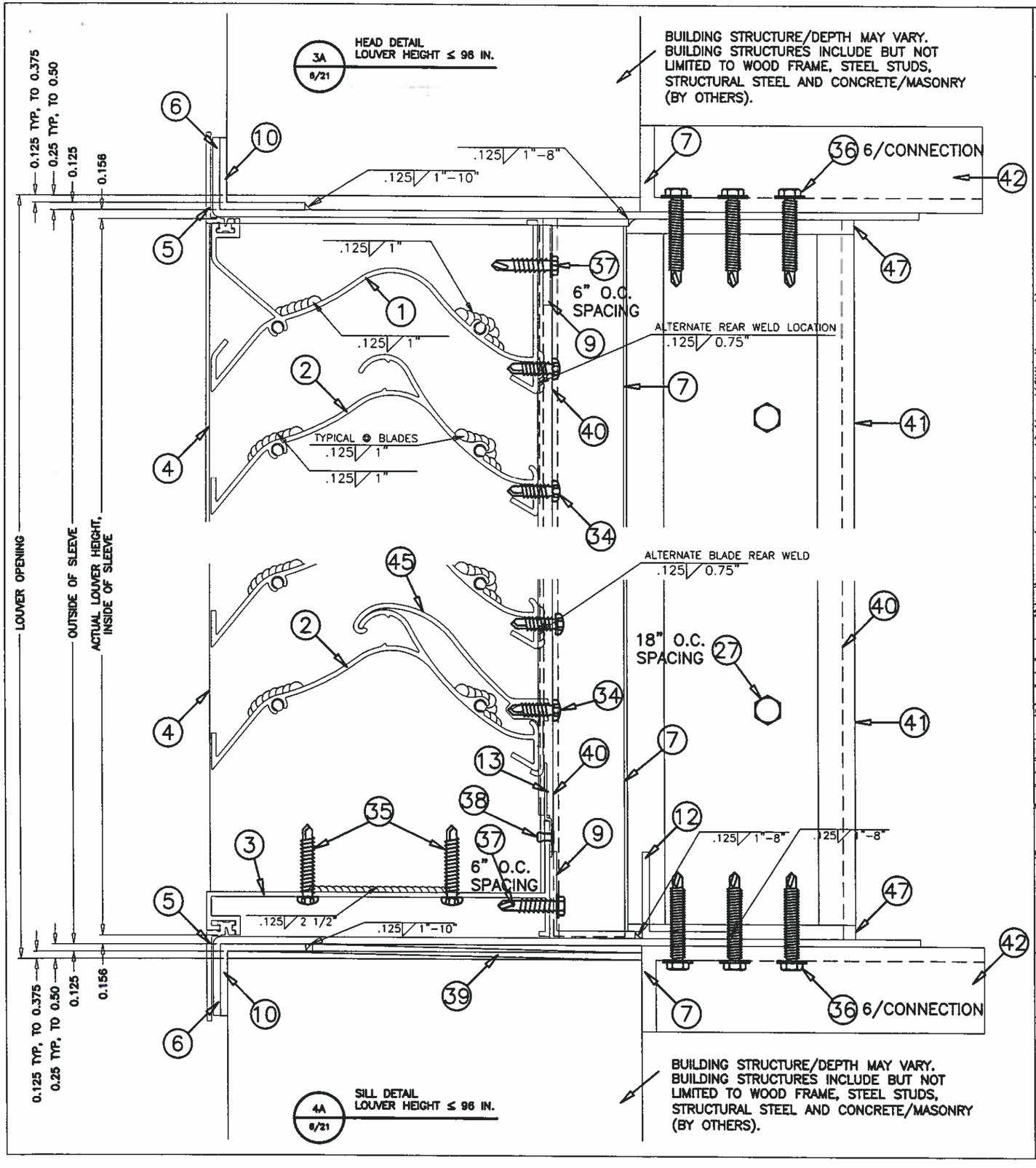

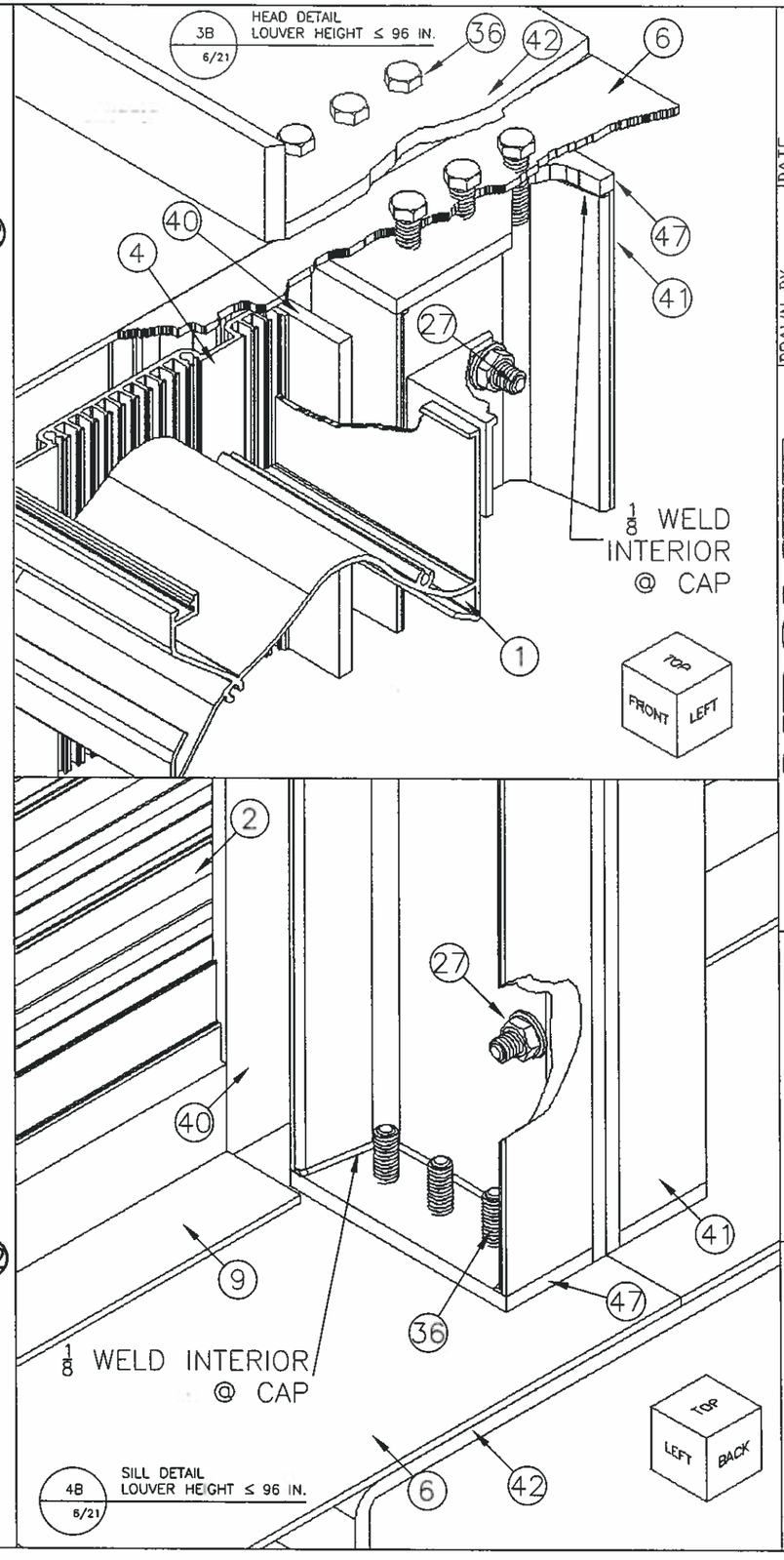

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DATE	8/25/2010
SCALE	1:2
SHEET NO.	6 OF 21
CAD DRAWING NO.	SCH601MD

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TITLE
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HEAD & SILL DETAILS, H≤96"

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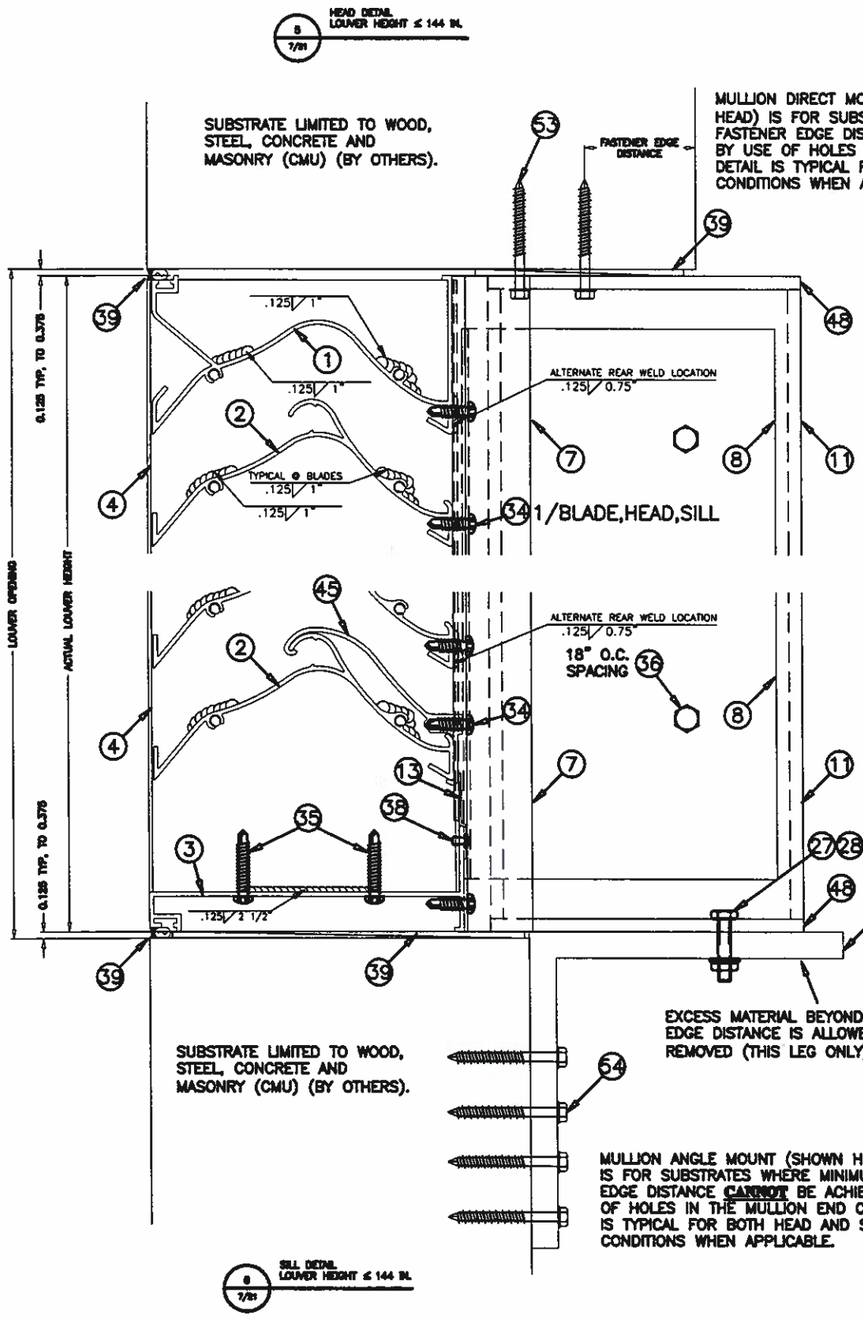

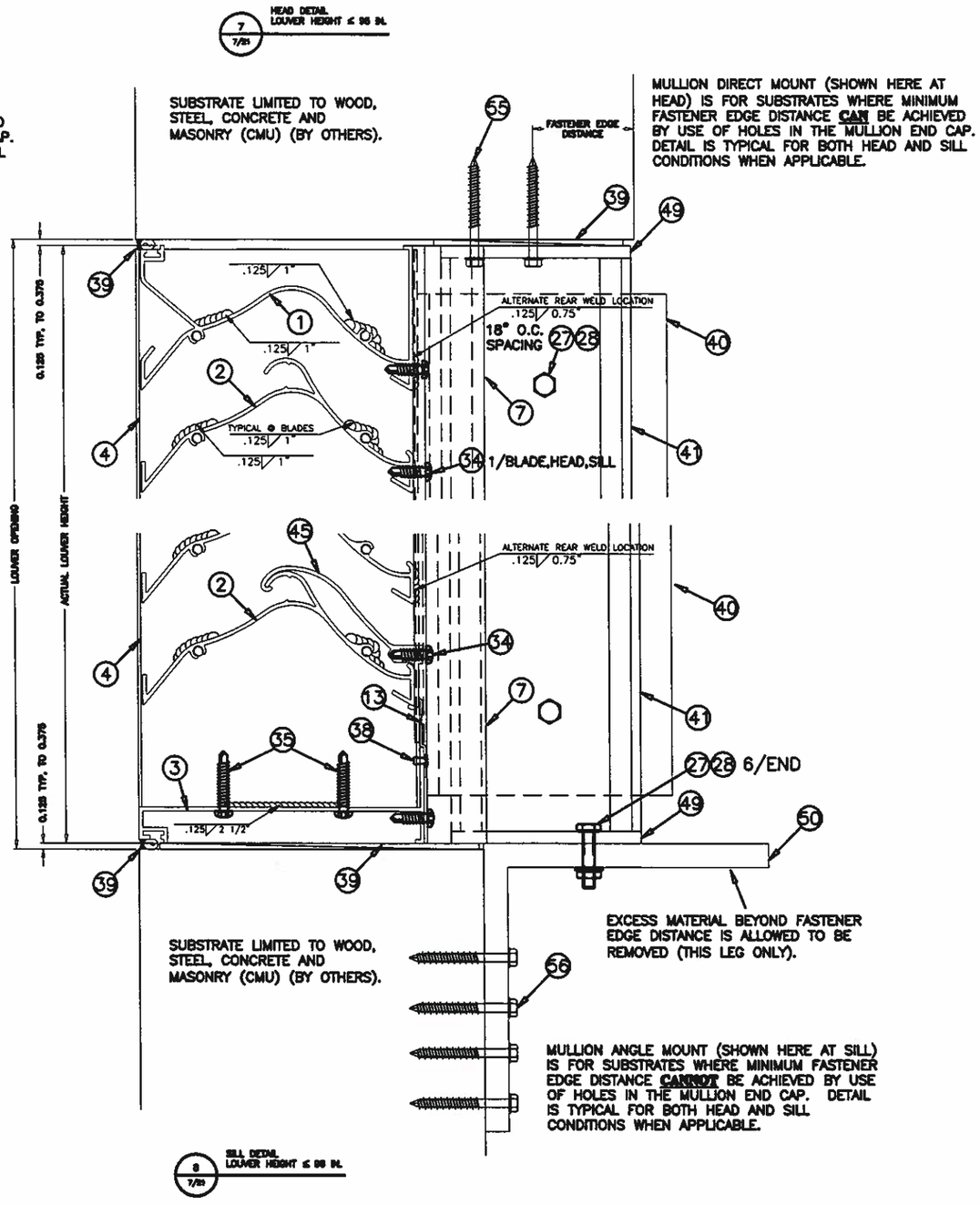

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DATE	8/25/2010
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SHEET NO.	7 OF 21
CAD DRAWING NO.	SCH601MD

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TITLE
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HEAD & SILL DETAILS, H≤144"
HEAD & SILL DETAILS, H≤96"

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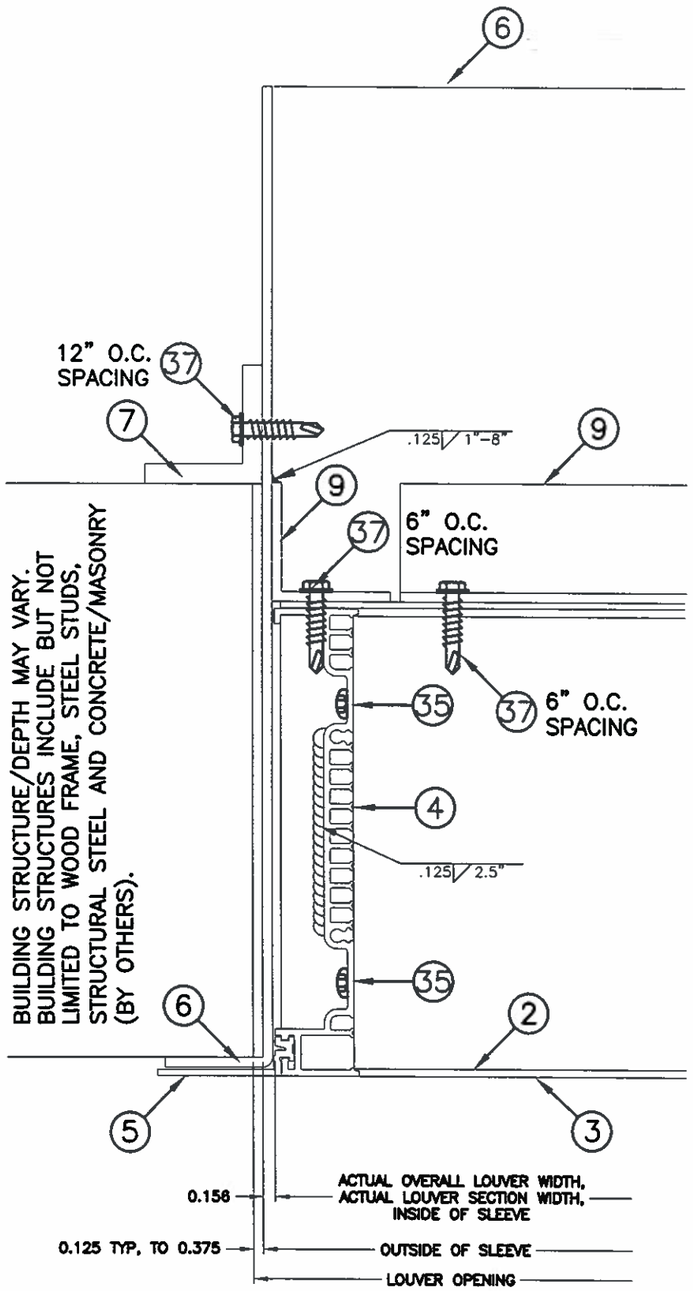
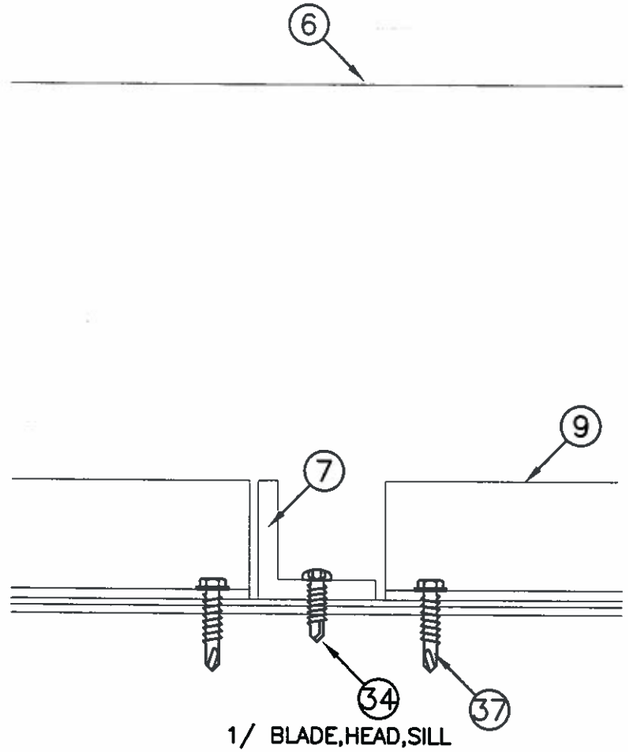


9 / 8/21 JAMB DETAIL



10 / 8/21 SUPPORT DETAIL
LOUVER HEIGHT ≤ 144 IN.

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TITLE
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SLEEVE MOUNT
JAMB DETAILS

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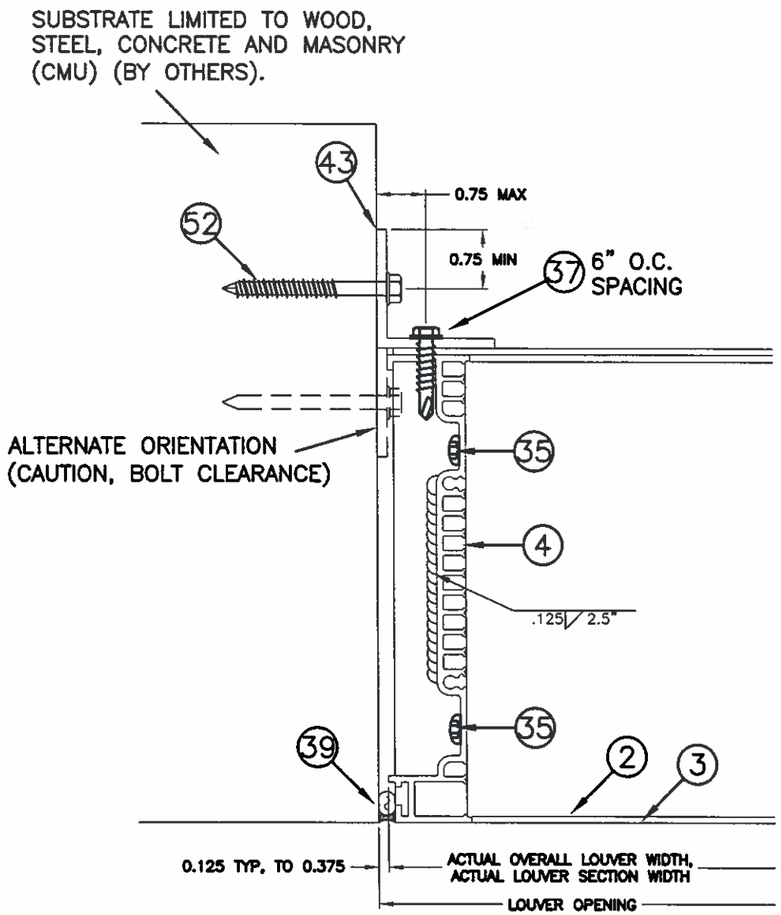
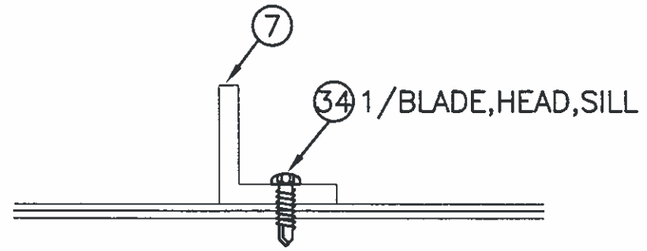


11 / 9/21 JAMB DETAIL
LOUVER HEIGHT ≤ 144 IN.



12 / 9/21 SUPPORT DETAIL
LOUVER HEIGHT ≤ 96 IN.

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SHEET NO. 9 OF 21
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SCH601MD LOUVER
CONTINUOUS ANGLE MOUNT
JAMB DETAILS

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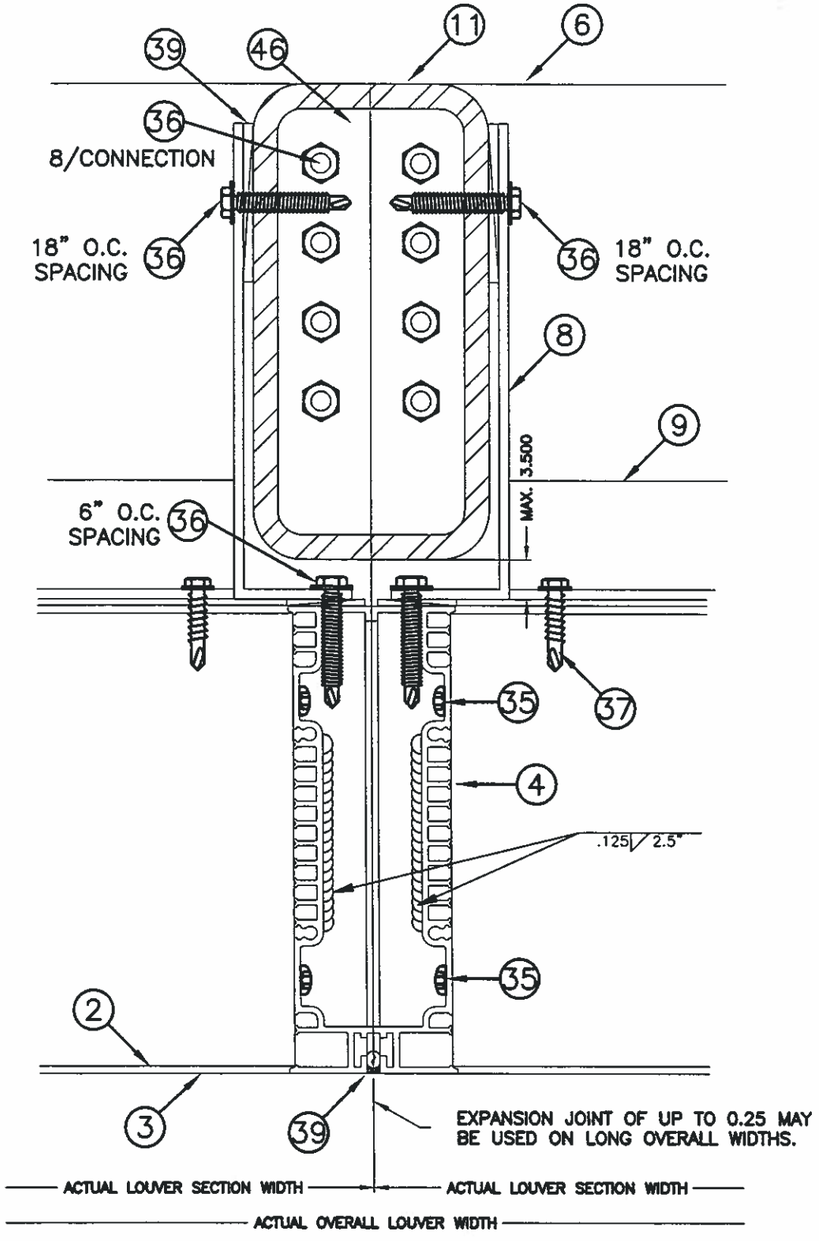
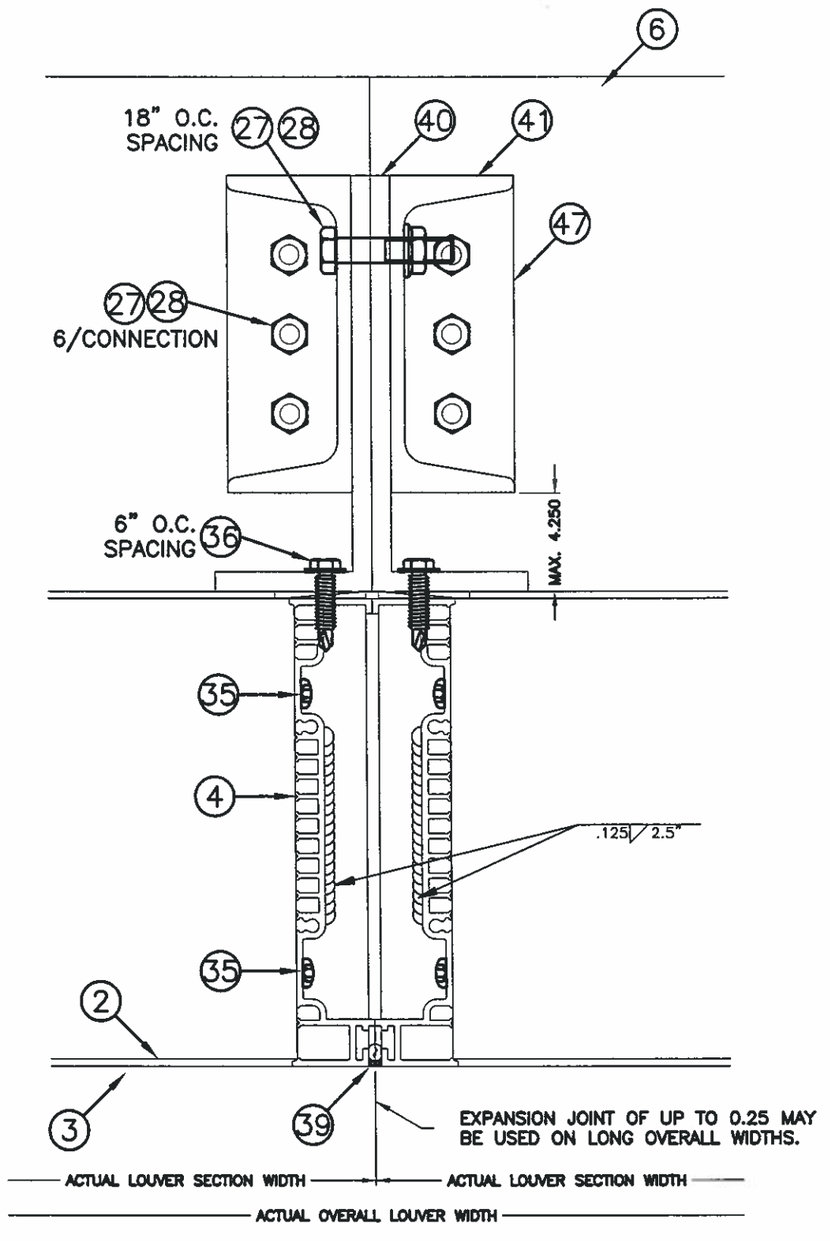


13A
10/21
MULLION DETAIL
LOUVER HEIGHT ≤ 144 IN.



13B
10/21
MULLION DETAIL
LOUVER HEIGHT ≤ 96 IN.

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TITLE
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FLANGE FRAME
SLEEVE MOUNT
MULLION DETAILS

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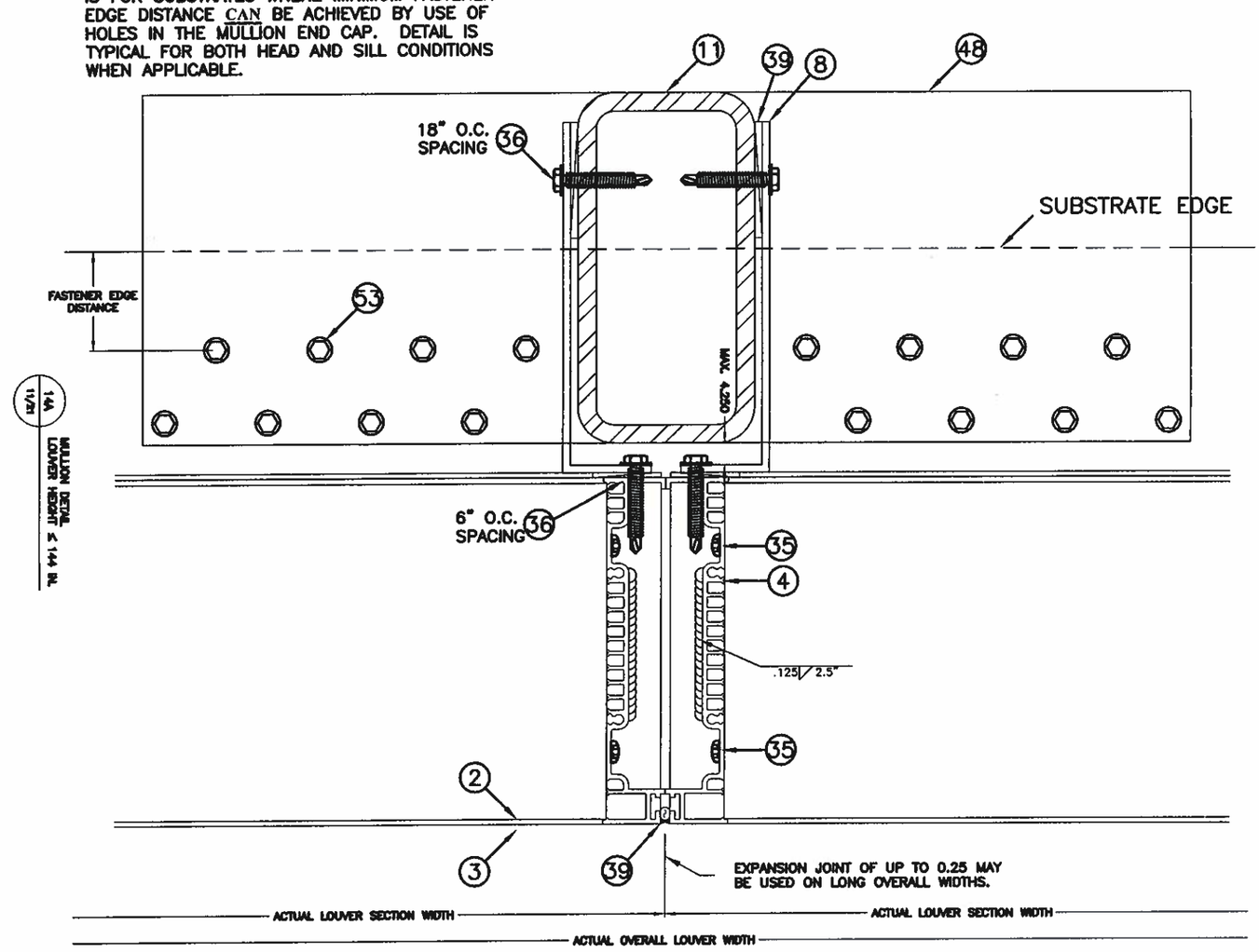
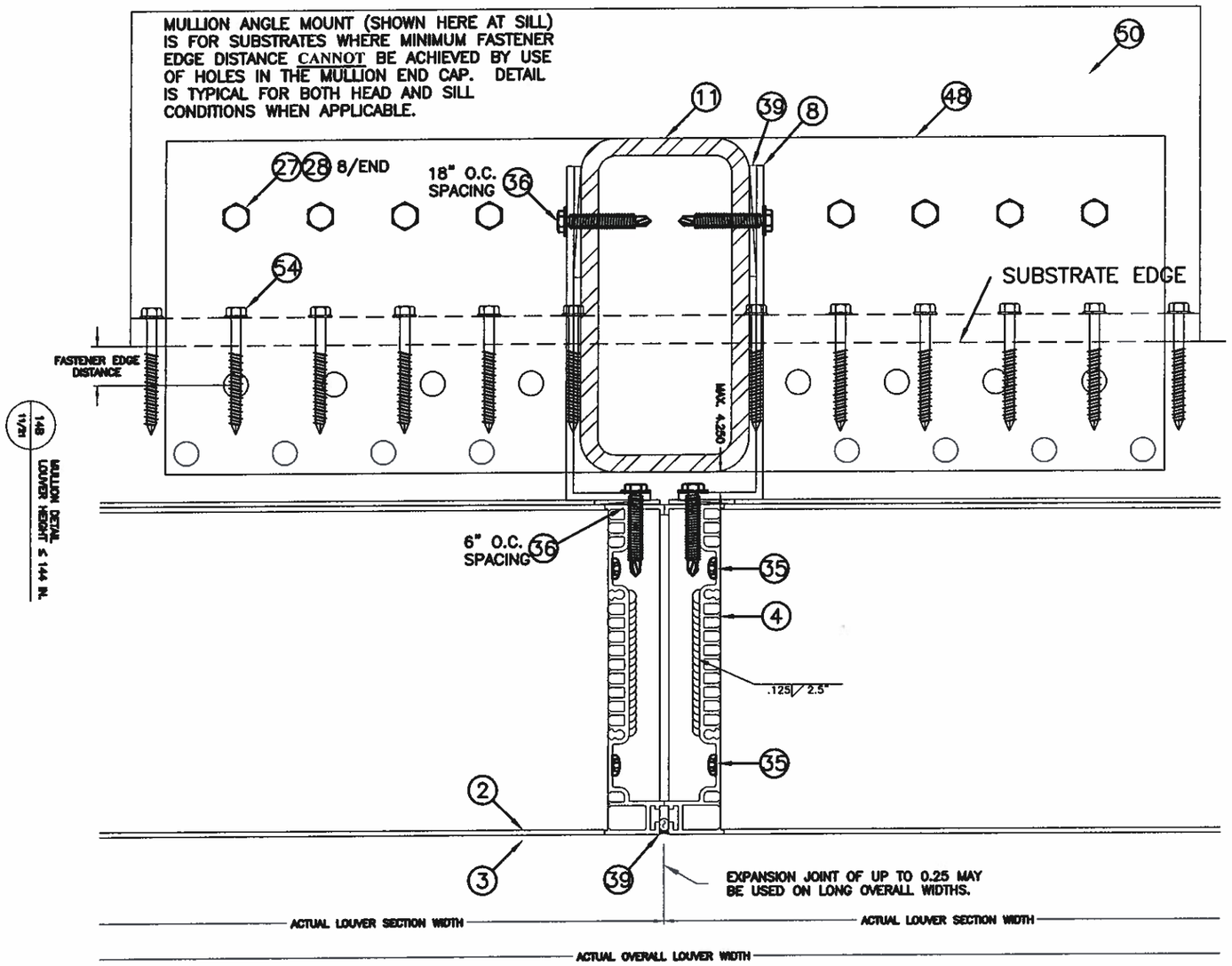
MULLION DIRECT MOUNT (SHOWN HERE AT SILL) IS FOR SUBSTRATES WHERE MINIMUM FASTENER EDGE DISTANCE CAN BE ACHIEVED BY USE OF HOLES IN THE MULLION END CAP. DETAIL IS TYPICAL FOR BOTH HEAD AND SILL CONDITIONS WHEN APPLICABLE.



MULLION ANGLE MOUNT (SHOWN HERE AT SILL) IS FOR SUBSTRATES WHERE MINIMUM FASTENER EDGE DISTANCE CANNOT BE ACHIEVED BY USE OF HOLES IN THE MULLION END CAP. DETAIL IS TYPICAL FOR BOTH HEAD AND SILL CONDITIONS WHEN APPLICABLE.



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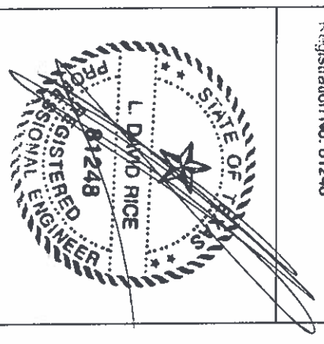

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TITLE

SCH601MD LOUVER
CONTINUOUS ANGLE MOUNT

MULLION DETAILS, H≤144"

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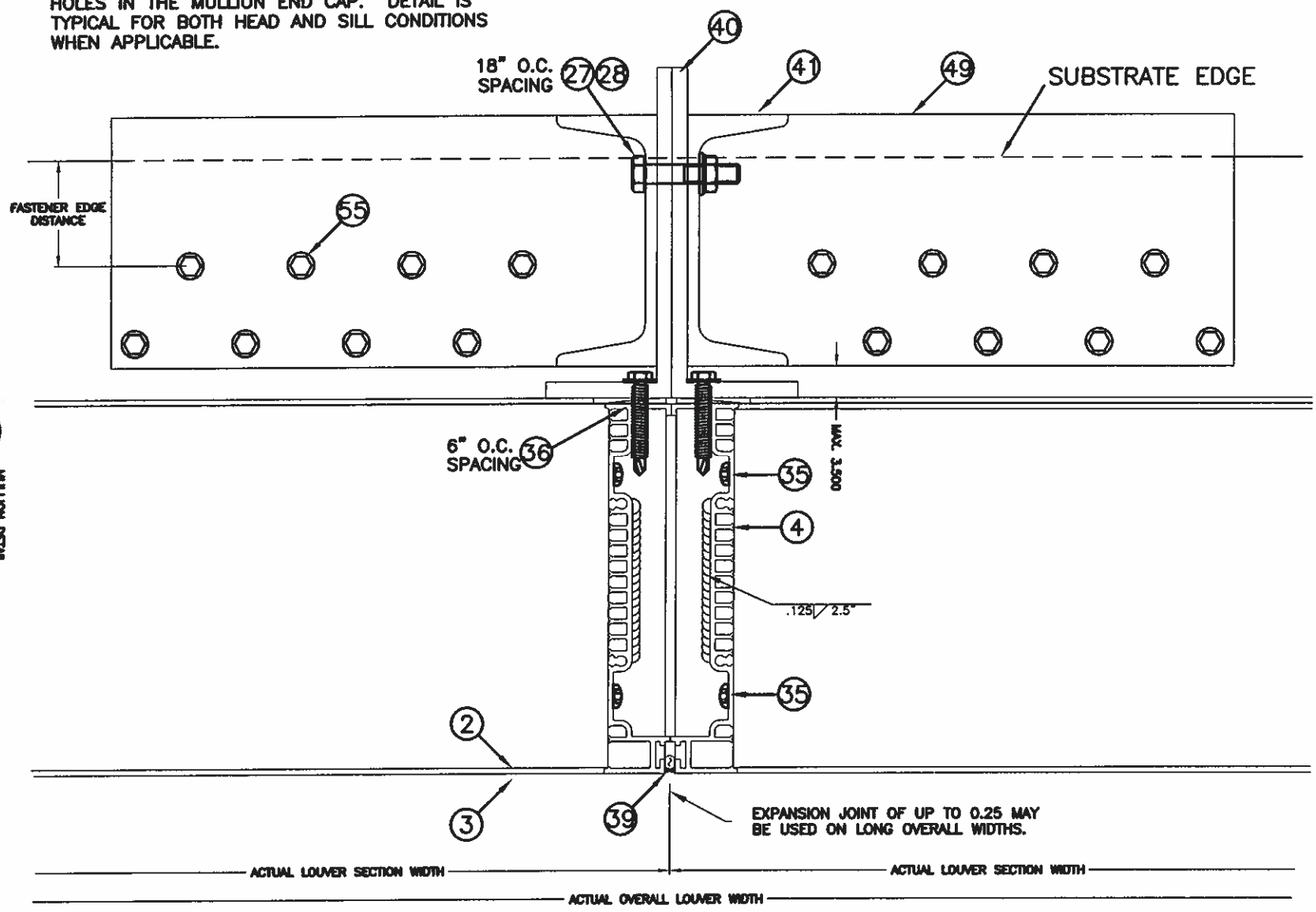
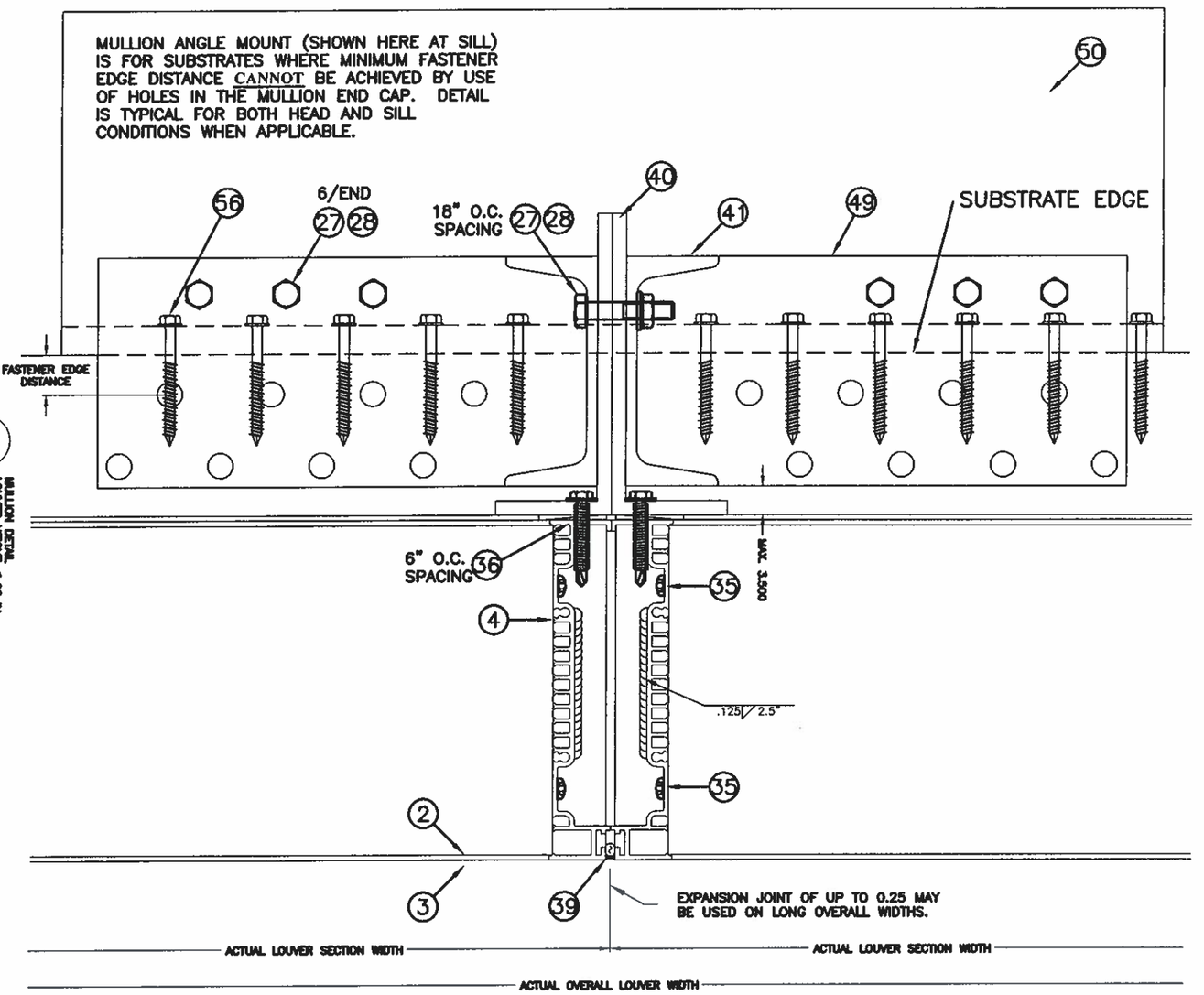


15A 12/21 MULLION DETAIL LOUVER HEIGHT ≤ 96 IN.

MULLION ANGLE MOUNT (SHOWN HERE AT SILL) IS FOR SUBSTRATES WHERE MINIMUM FASTENER EDGE DISTANCE CANNOT BE ACHIEVED BY USE OF HOLES IN THE MULLION END CAP. DETAIL IS TYPICAL FOR BOTH HEAD AND SILL CONDITIONS WHEN APPLICABLE.



15B 12/21 MULLION DETAIL LOUVER HEIGHT ≤ 96 IN.

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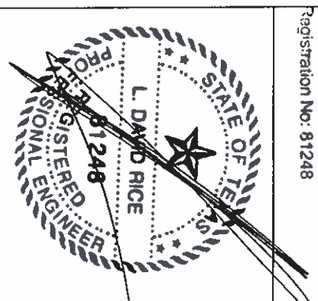

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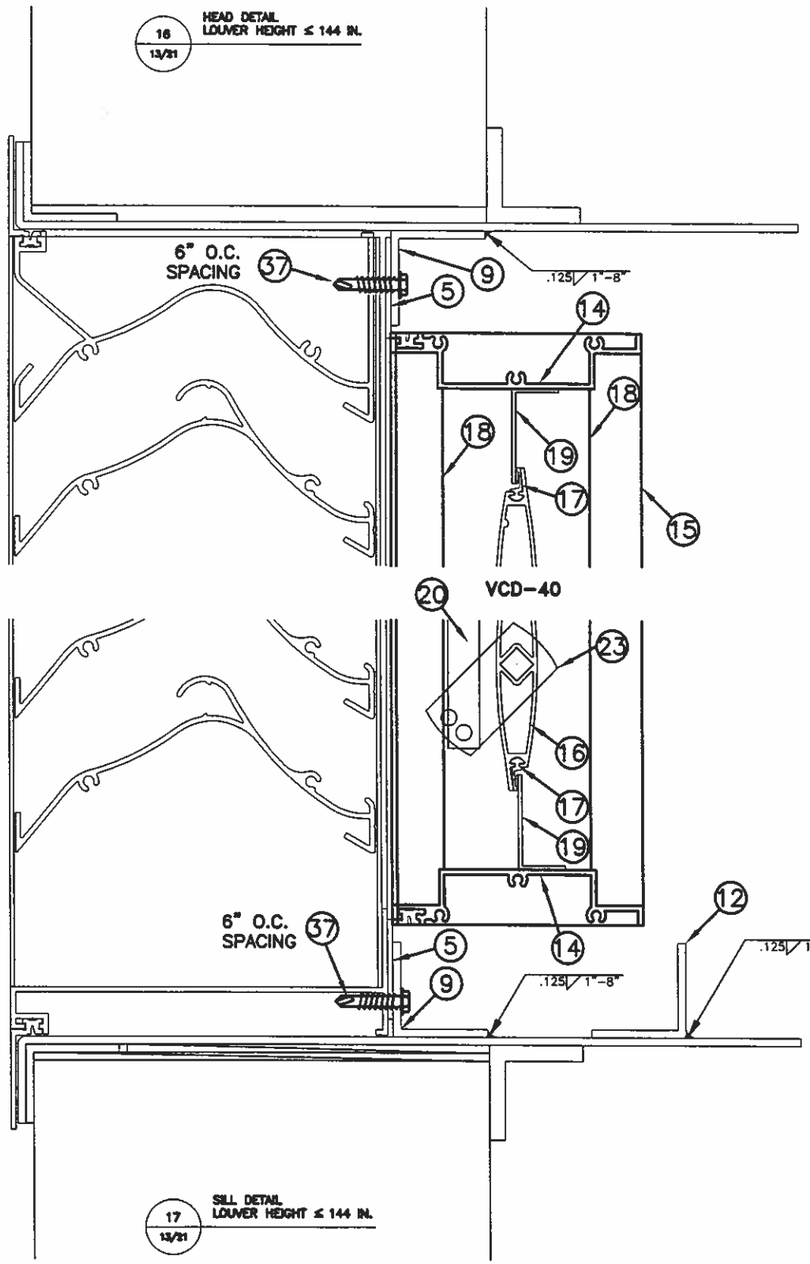
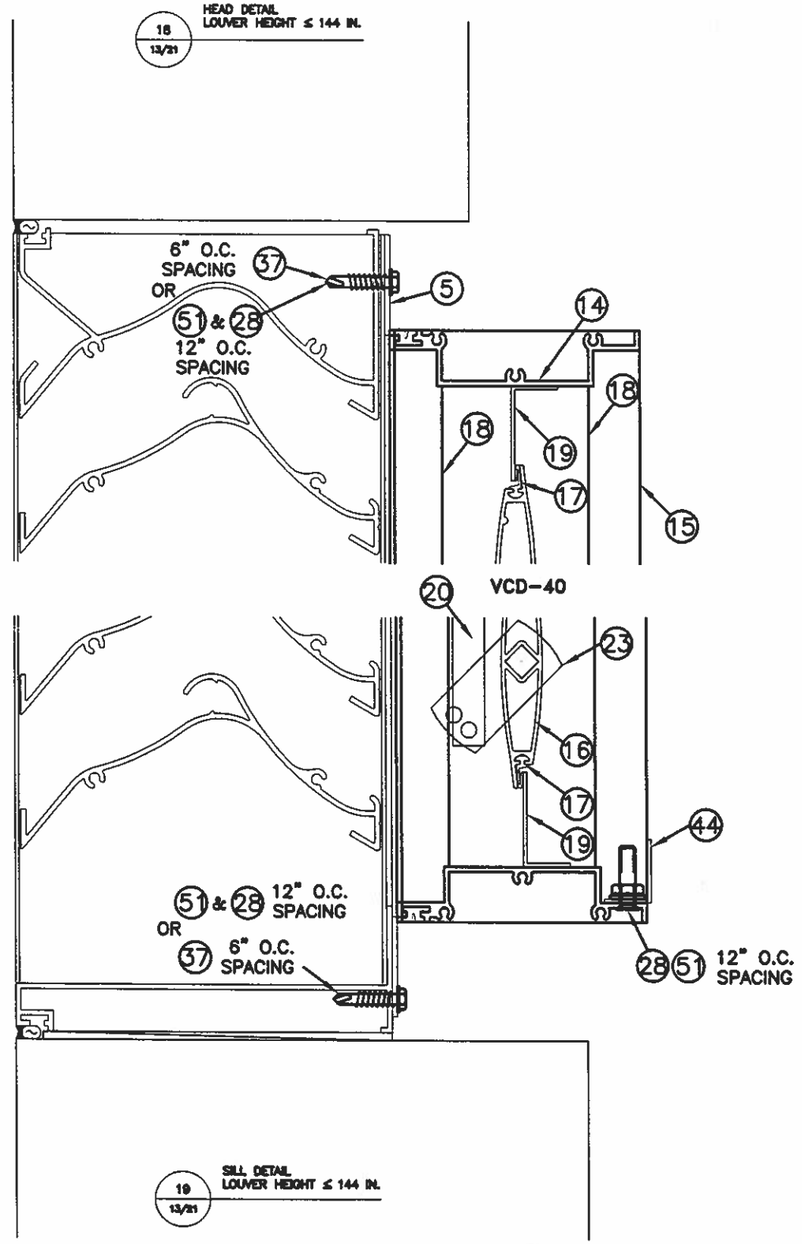
TITLE
SCH601MD LOUVER
CONTINUOUS ANGLE MOUNT

MULLION DETAILS, H≤96"





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SCALE 1:2.5 | SHEET NO. 13 OF 21

CAD DRAWING NO. SCH601MD

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TITLE
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& CONTINUOUS ANGLE MOUNT
HEAD & SILL DETAILS

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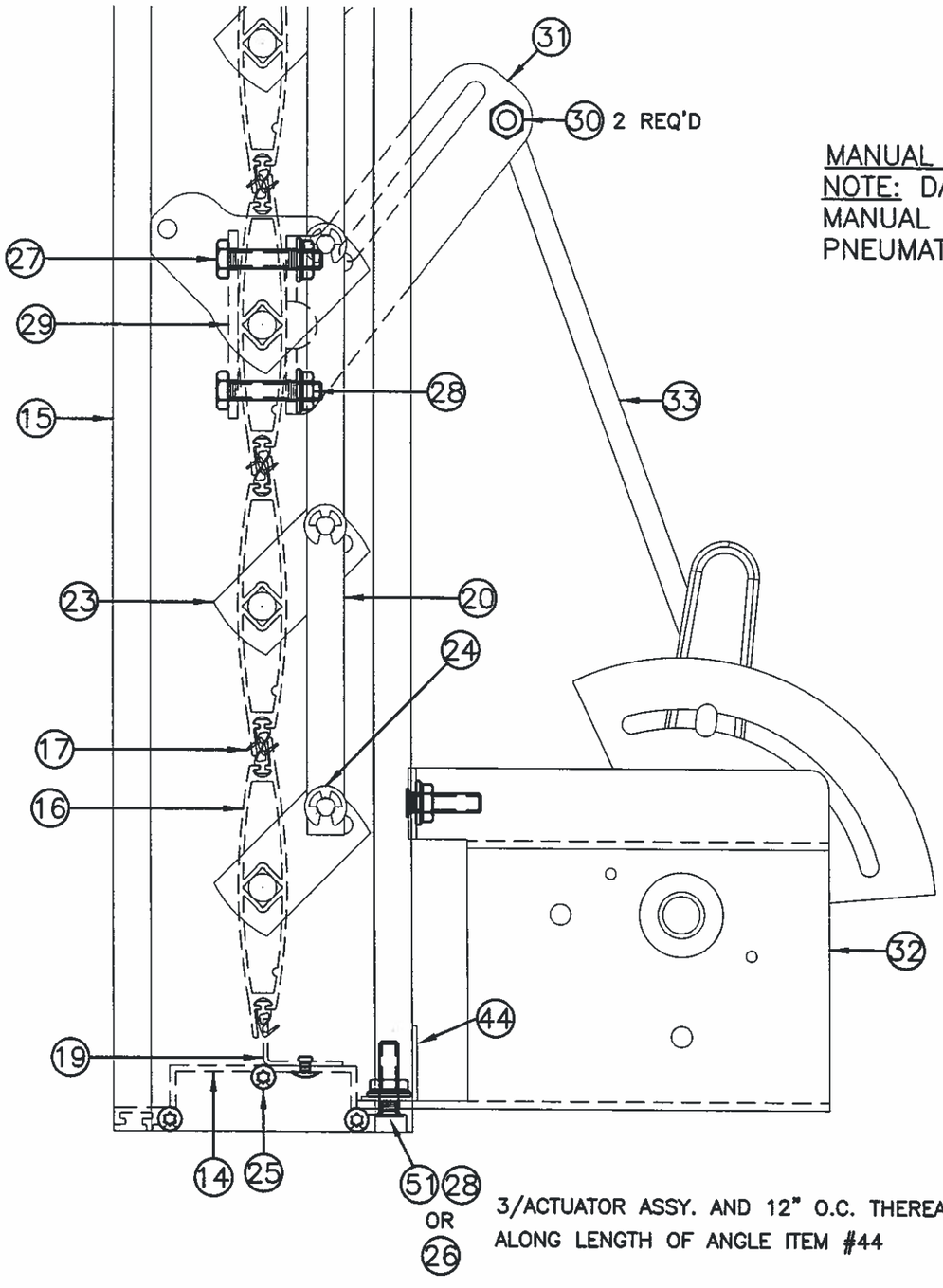

MANUAL QUADRANT ACTUATOR AS SHOWN
NOTE: DAMPER MAY BE OPERATED BY MANUAL QUADRANT, AN ELECTRIC OR PNEUMATIC ACTUATOR.

3/ACTUATOR ASSY. AND 12" O.C. THEREAFTER ALONG LENGTH OF ANGLE ITEM #44

20 / 14/21 ACTUATOR DETAIL
LOUVER HEIGHT ≤ 144 IN.

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SCALE 1:2 | SHEET NO. 14 OF 21
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TITLE VCD-40 DAMPER MANUAL QUAD ACTUATOR

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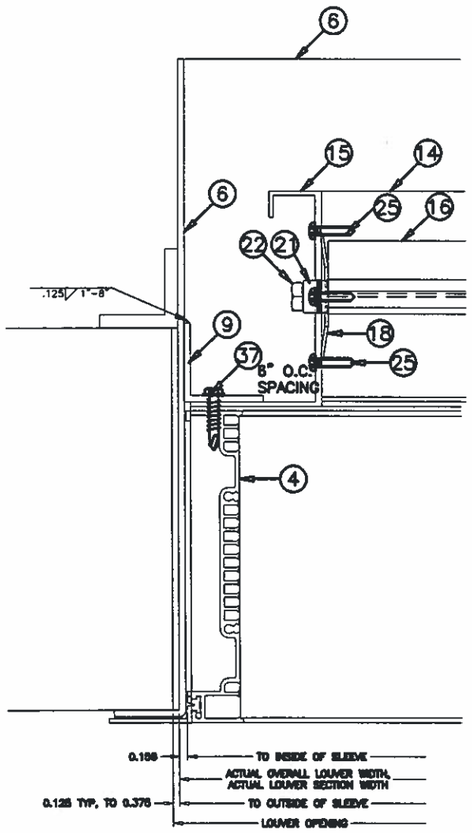
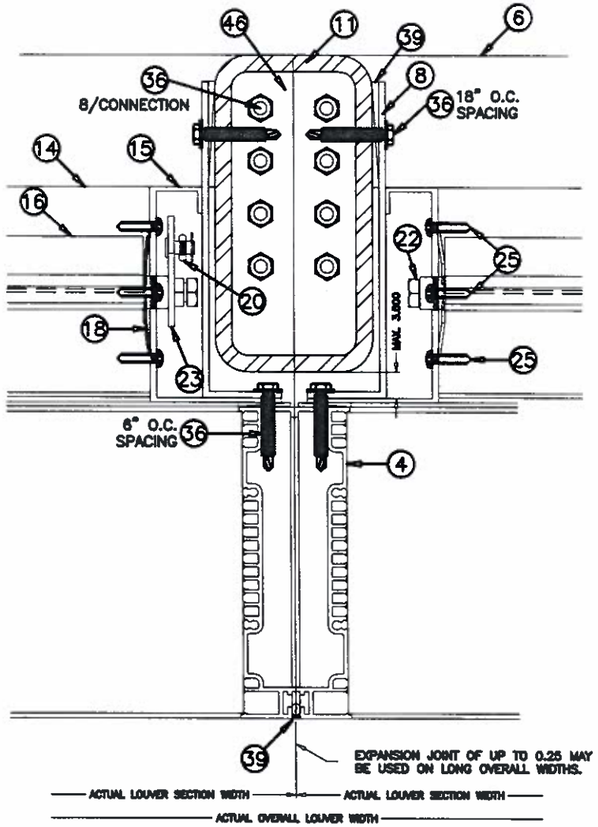


VCD-40

EHH-601D

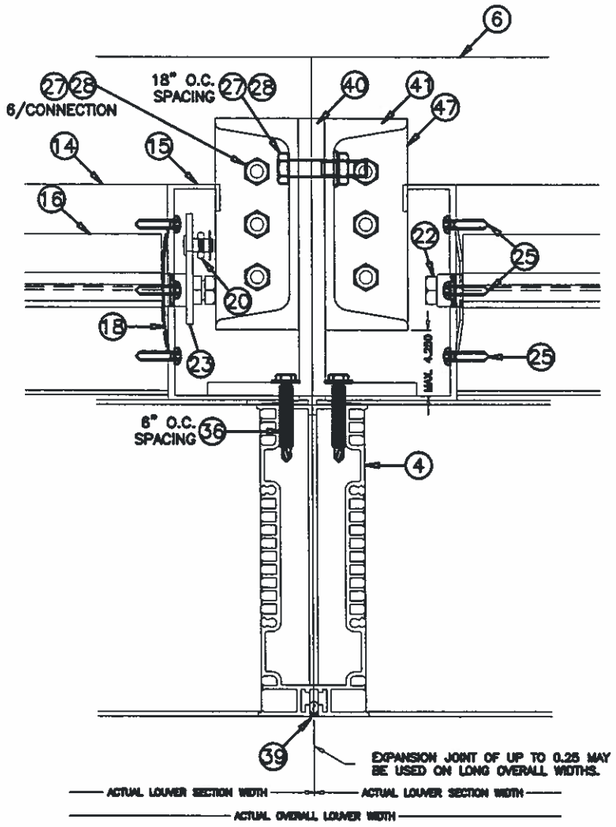
21 JAMB DETAIL
LOUVER HEIGHT ≤ 144 IN.
10/01



VCD-40

EHH-601D

22A MULLION DETAIL
LOUVER HEIGHT ≤ 144 IN.
10/01



22B MULLION DETAIL
LOUVER HEIGHT ≤ 96 IN.
10/01

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DATE 8/25/2010
SCALE 1:3
SHEET NO. 15 OF 21
CAD DRAWING NO. SCH601MD

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715-359-6171

TITLE
SCH601MD LOUVER W/VCD-40
FLANGE FRAME
SLEEVE MOUNT
JAMB AND MULLION DETAILS

RICE
ENGINEERING
105 School Creek Trail
Luxemburg, WI 54217
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Texas Firm No: F-2183
L. David Rice
Registration No: 81248

STATE OF TEXAS
L. DAVID RICE
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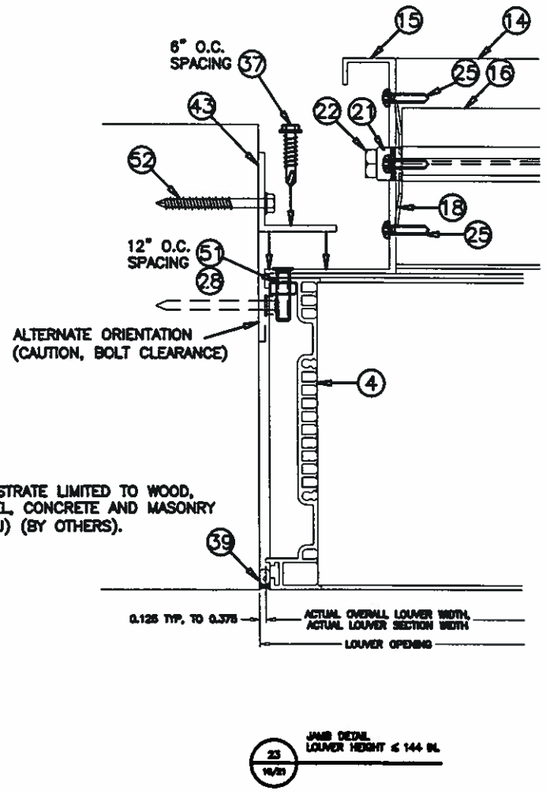
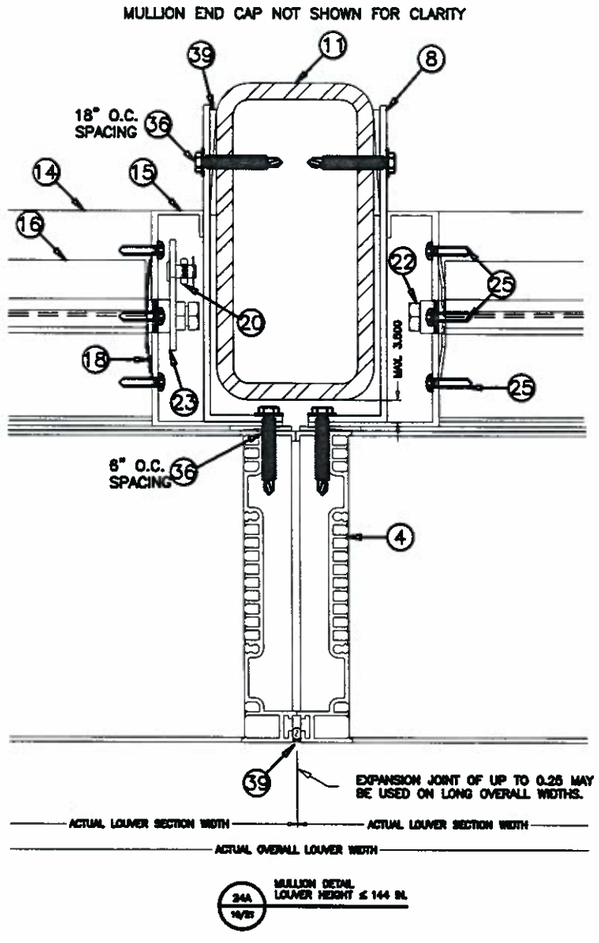
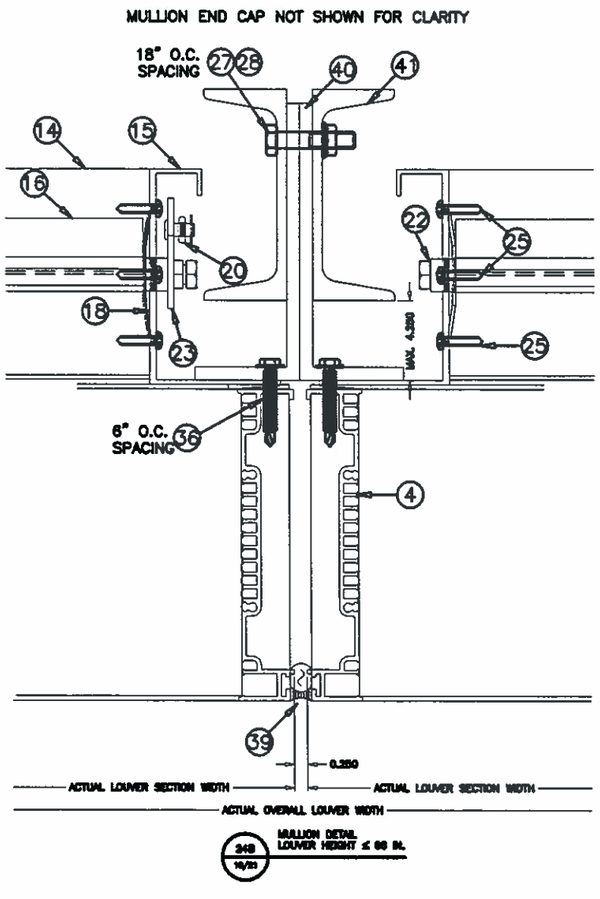
AUG 29 2013







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DATE	8/25/2010
SCALE	1:3
SHEET NO.	16 OF 21
CAD DRAWING NO.	SCH601MD

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TITLE
SCH601MD LOUVER W/VCD-40
CONTINUOUS ANGLE MOUNT
JAMB AND MULLION DETAILS

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AUG 29 2013

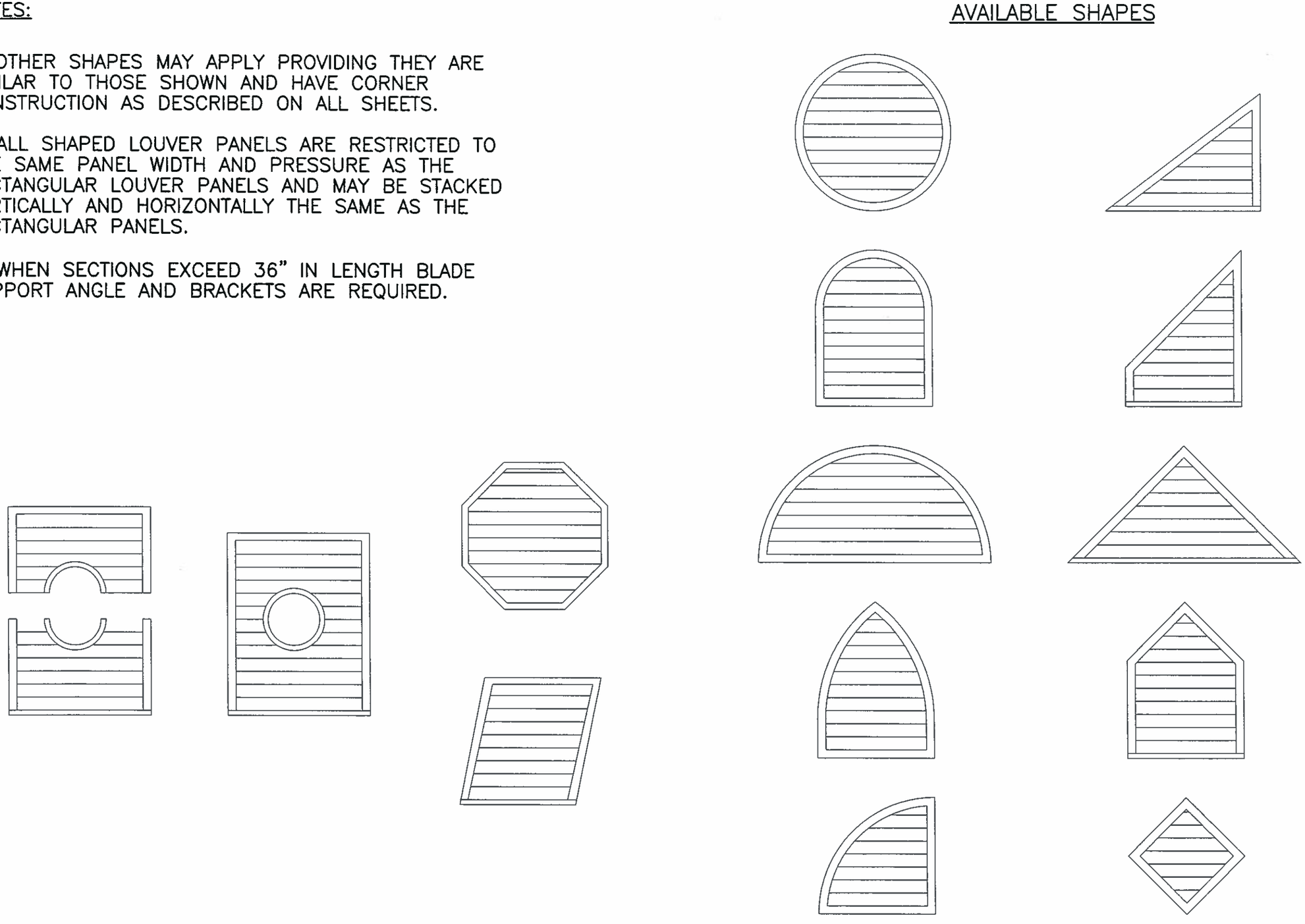
NOTES:

1. OTHER SHAPES MAY APPLY PROVIDING THEY ARE SIMILAR TO THOSE SHOWN AND HAVE CORNER CONSTRUCTION AS DESCRIBED ON ALL SHEETS.

2. ALL SHAPED LOUVER PANELS ARE RESTRICTED TO THE SAME PANEL WIDTH AND PRESSURE AS THE RECTANGULAR LOUVER PANELS AND MAY BE STACKED VERTICALLY AND HORIZONTALLY THE SAME AS THE RECTANGULAR PANELS.

3. WHEN SECTIONS EXCEED 36" IN LENGTH BLADE SUPPORT ANGLE AND BRACKETS ARE REQUIRED.

AVAILABLE SHAPES



DRAWN BY MES	DATE 8/25/2010	
SCALE		
SHEET NO. 17 OF 21		
CAD DRAWING NO. SCH601MD		

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TITLE
SCH601MD LOUVER
W/ AND W/O VCD-40
AVAILABLE SHAPES

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ITEM	DESCRIPTION	MATERIAL	NOTES
1	LOUVER HEAD	6063-T5 ALUMINUM	
2	LOUVER BLADE	6063-T5 ALUMINUM	2.125" MAX. SPACING
3	LOUVER SILL	6063-T5 ALUMINUM	
4	LOUVER JAMB	6063-T5 ALUMINUM	
5	LOUVER/DAMPER FLANGE	6063-T5 ALUMINUM	
6	FORMED SLEEVE	5052-H32 ALUMINUM	1/8" FORMED SLEEVE-DEPTH VARIES
7A	1 1/2 X 1 1/2 X 1/4 ANGLE	6063-T5 ALUMINUM	BLADE SUPPORT ANGLE
7B	1 1/2 X 1 1/2 X 1/4 ANGLE	6063-T5 ALUMINUM	USED AT HEAD/SILL/JAMBS OF SLEEVE
8	1 1/2 X 6 X 1/8 ANGLE	6063-T5 ALUMINUM	JAMB ANGLE
9	1 1/2 X 1 1/2 X 1/8 ANGLE	6063-T5 ALUMINUM	USED AT HEAD/SILL/JAMBS OF LOUVER
10	1 1/2 X 1 1/2 X 1/8 ANGLE	6063-T5 ALUMINUM	USED AT HEAD/SILL OF SLEEVE FLANGE
11	3 X 6 X 5/16 STEEL TUBE	A36	
12	1 1/2 X 1 1/2 X 1/8 ANGLE	6063-T5 ALUMINUM	USED AT SILL AS BACK OF SILL PAN
13	LOUVER BLANK OFF	6063-T5 ALUMINUM	IF REQUIRED, SPANS SILL OPENING
14	DAMPER HEAD/SILL	6063-T5 ALUMINUM	
15	DAMPER JAMB	6063-T5 ALUMINUM	
16	DAMPER BLADE	6063-T5 ALUMINUM	3.75 MAX. SPACING
17	DAMPER BLADE SEAL	SILICONE/RUBER TYPE	MATERIAL VARIES
18	DAMPER JAMB SEAL	SS	
19	DAMPER TOP/BOTTOM CLOSURE	ALUMINUM	
20A	DAMPER LINKAGE BAR	GALV. STEEL	
20B	DAMPER LINKAGE BAR	SS	
21A	DAMPER AXLE BUSHING	DELRIN	
21B	DAMPER AXLE BUSHING	BRONZE	
21C	DAMPER AXLE BUSHING	SS	
22A	NON-DRIVE DAMPER AXLE ASST.	ZC STEEL PIN W/DELRIN BUSHING	
22B	NON-DRIVE DAMPER AXLE ASST.	ZC STEEL PIN W/BRONZE BUSHING	
22C	NON-DRIVE DAMPER AXLE ASST.	ZC STEEL PIN W/ SS BUSHING	
22D	NON-DRIVE DAMPER AXLE ASST.	SS PIN W/ DELRIN BUSHING	
22E	NON-DRIVE DAMPER AXLE ASST.	SS PIN W/ BRONZE BUSHING	
22F	NON-DRIVE DAMPER AXLE ASST.	SS PIN W/ SS BUSHING	
23A	DRIVE SIDE DAMPER AXLE ASST.	ZC/GALV. STEEL	
23B	DRIVE SIDE DAMPER AXLE ASST.	SS	
24A	1/4 DIA. E-CLIP	ZP	
24B	1/4 DIA. E-CLIP	SS	
25	#8 X .75 TPH TYPE AB SMS	SS	
26	#14 X .75 TEK	ZP	
27A	1/4-20 X 1.25 HH CS	ZP	
27B	1/4-20 X 1.5 HH CS	SS	
28A	1/4-20 SF NUT	ZP	
28B	1/4-20 SF NUT	SS	
29	REINFORCING STRAP	18-8 SS	
30	1/4-20 X .562 BALL SWIVEL	ZP	
31A	DAMPER BLADE DRIVE LEVER	SS	
31B	DAMPER BLADE DRIVE LEVER	GALV. STEEL	
32	DAMPER MANUAL QUAD ASSY.		
33	5/16 DIA. LINKAGE ROD	ZP	
34	#10 X 3/4" TPH SMS 18-8 SS	18-8 SS	
35	#10 X 1 1/4" SMS 316 SS	316 SS	
36	1/4" DIA. SS SCREW		1 1/2" LONG
37	1/4" DIA. SS SCREW		1" LONG
38	1/8" DIA. BLIND RIVET	ALUMINUM	
39A	DEAD LOAD SHIMS		NOT BY GREENHECK
39B	SEALANT AND BACKER ROD		NOT BY GREENHECK
40	5 1/4 X 2 X 1/4 ANGLE	6063-T5 ALUMINUM	USED AT JAMB OF LOUVER/SLEEVE
41	4" CHANNEL	6061-T6 ALUMINUM	USED AT JAMB OF LOUVER/SLEEVE
42	MULLION SLEEVE BRACKET	5052-H32 ALUMINUM	
43	1 1/4 X 1 1/4 X 1/8 ANGLE	6063-T5 ALUMINUM	MIN SIZE, JAMB ATTACHMENT ANGLE
44	SILL DAM	ALUMINUM	
45	BLADE SUPPORT, OPTIONAL	6063-T5 ALUMINUM	
46	STEEL MULLION END CAP (SM)	STEEL	FACTORY WELDED TO MULLION
47	ALUMINUM MULLION END CAP (SM)	5052-H32 ALUMINUM	FACTORY WELDED TO MULLION
48	STEEL MULLION END CAP (LG)	STEEL	FACTORY WELDED TO MULLION
49	ALUM MULLION END CAP (LG)	5052-H32 ALUMINUM	FACTORY WELDED TO MULLION
50	MULLION MOUNTING ANG. BRACKET	STEEL 36 KSI, OR 6061-T6	MULLION MOUNTING ANGLE, H≤144
51	1/4" DIA. THREAD STUD	SS OR PLATED STEEL	1/2" MIN. LONG

*EMBEDMENT DEPTH IS EQUAL TO OVERALL FASTENER LENGTH FOR CONCRETE/CMU FASTENERS.
IF SHIMS ARE USED, FASTENER LENGTH MUST BE INCREASED BY THICKNESS OF SHIMS.

ITEM	CONCRETE	CMU	STEEL	WOOD	MIN.	FASTENER TYPE	ALL FASTENERS ARE STEEL OR STAINLESS					
52	JAMB PERIMETER ANGLE FASTENER, HEIGHT <=144						DIAMETER	# REQ.	CENTERS	EDGE	EMBED.*	
52A	X				2KSI	"POWERS WEDGE BOLT"	3/8	VARIES	6.00	1.215	3.500	
52B	X				4KSI	"POWERS WEDGE BOLT"	3/8	VARIES	6.00	1.215	3.500	
52C	X				2KSI	SCOTS TAPCON / TAPCON	1/4	VARIES	4.75	1.500	1.750	
52D	X				4KSI	SCOTS TAPCON / TAPCON	1/4	VARIES	6.00	1.500	1.750	
52E		X			1.5KSI	SCOTS TAPCON / TAPCON	1/4	VARIES	3.00	1.500	1.750	
52F			X		65KSI Fy	BOLT/NUT OR TAPPING SCREW	1/4	VARIES	6.00	0.500	0.125	
52G				X	SG 0.42	LAG	3/8	VARIES	6.00	1.500	2.375	
53	MULLION END PLATE FASTENER, HEIGHT <=144						DIAMETER	# REQ.	CENTERS	EDGE	EMBED.*	
53A	X				2KSI	"POWERS WEDGE BOLT"	3/8	8/END	1.50	1.75	3.500	
53B	X				4KSI	"POWERS WEDGE BOLT"	3/8	8/END	1.50	1.75	3.500	
53C	X				2KSI	SCOTS TAPCON / TAPCON	1/4	9/END	2.00	1.50	1.625	
53E	X				4KSI	SCOTS TAPCON / TAPCON	1/4	8/END	2.00	1.50	1.625	
53F			X		65KSI Fy	BOLT/NUT OR TAPPING SCREW	1/4	8/END	1.00	0.50	0.125	
53G				X	SG 0.42	LAG	3/8	7/END	1.50	1.75	2.375	GROUP
54	MULLION ANGLE MOUNT FASTENER, HEIGHT <=144						DIAMETER	# REQ.	CENTERS	EDGE	EMBED.*	CENTER
54A	X				2KSI	"POWERS WEDGE BOLT"	3/8	12/ANG.	3.375	2.250	3.500	3.766
54B	X				4KSI	"POWERS WEDGE BOLT"	3/8	9/ANG.	3.375	2.250	3.500	3.766
54C	X				2KSI	SCOTS TAPCON / TAPCON	1/4	32/ANG.	2.000	1.500	1.750	3.375
54D	X				4KSI	SCOTS TAPCON / TAPCON	1/4	27/ANG.	2.000	1.500	1.750	3.375
54E		X			1.5KSI	SCOTS TAPCON / TAPCON	1/4	32/ANG.	2.000	1.500	1.750	3.375
54F			X		65KSI Fy	BOLT/NUT OR TAPPING SCREW	1/4	16/ANG.	1.000	0.500	0.125	3.000
54G			X		65KSI Fy	BOLT/NUT OR TAPPING SCREW	1/4	11/ANG.	1.000	0.500	0.188	3.000
54H			X		65KSI Fy	BOLT/NUT OR TAPPING SCREW	1/4	16/ANG.	1.000	0.500	0.188	3.766
54I			X		65KSI Fy	BOLT/NUT OR TAPPING SCREW	5/16	12/ANG.	1.000	0.625	0.125	3.000
54J			X		65KSI Fy	BOLT/NUT OR TAPPING SCREW	5/16	16/ANG.	1.000	0.625	0.125	3.766
54K				X	SG 0.42	LAG	3/8	16/ANG.	1.500	1.500	2.875	3.766
54L				X	SG 0.42	LAG	3/8	11/ANG.	1.500	1.500	2.875	3.000
55	MULLION END PLATE FASTENER, HEIGHT <=96						DIAMETER	# REQ.	CENTERS	EDGE	EMBED.*	
55A	X				2KSI	"POWERS WEDGE BOLT"	3/8	5/CAP	1.50	1.6	3.500	
55B	X				4KSI	"POWERS WEDGE BOLT"	3/8	5/CAP	1.50	1.6	3.500	
55C	X				2KSI	"POWERS WEDGE BOLT"	3/8	5/CAP	2.00	1.75	3.500	
55D	X				4KSI	"POWERS WEDGE BOLT"	3/8	5/CAP	2.00	1.75	3.500	
55E	X				2KSI	SCOTS TAPCON / TAPCON	1/4	6/CAP	2.00	1.50	1.750	
55F	X				4KSI	SCOTS TAPCON / TAPCON	1/4	6/CAP	2.00	1.50	1.750	
55G			X		65KSI Fy	BOLT/NUT OR TAPPING SCREW	1/4	3/CAP	1.00	0.50	0.125	
55H				X	SG 0.42	LAG	3/8	5/CAP	1.50	1.75	2.375	GROUP
56	MULLION ANGLE MOUNT FASTENER, H<=96						DIAMETER	# REQ.	CENTERS	EDGE	EMBED.*	CENTER
56A	X				2KSI	"POWERS WEDGE BOLT"	3/8	4/ANG.	3.375	2.25	3.500	3.766
56B	X				4KSI	"POWERS WEDGE BOLT"	3/8	3/ANG.	3.375	2.25	3.500	3.766
56C	X				2KSI	SCOTS TAPCON / TAPCON	1/4	11/ANG.	2.000	1.50	1.750	3.375
56D	X				4KSI	SCOTS TAPCON / TAPCON	1/4	9/ANG.	2.000	1.50	1.750	3.375
56E		X			1.5KSI	SCOTS TAPCON / TAPCON	1/4	11/ANG.	2.000	1.50	1.750	3.375
56F			X		65KSI Fy	BOLT/NUT OR TAPPING SCREW	1/4	7/ANG.	1.000	0.50	0.125	3.766
56G			X		65KSI Fy	BOLT/NUT OR TAPPING SCREW	1/4	6/ANG.	1.000	0.50	0.125	3.000
56H				X	SG 0.42	LAG	3/8	5/ANG.	1.500	1.50	2.875	3.766
56I				X	SG 0.42	LAG	3/8	4/ANG.	1.500	1.50	2.875	3.000

GENERAL NOTES:
1. IT SHALL BE THE RESPONSIBILITY OF THE PERMIT HOLDER TO VERIFY THE STRUCTURAL INTEGRITY OF THE EXISTING STRUCTURE TO SUPPORT THE LOADS IMPOSED BY THE LOUVERS.
2. THE SCH601MD AND SCH601MD/VCD-40 HAVE BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE (FBC) AND TEST PROTOCOLS TAS-201 (IMPACT), TAS-202 (UNIFORM STATIC PRESSURE), AND TAS-203 (CYCLIC FATIGUE). THE SCH601MD/VCD-40 HAS BEEN TESTED IN ACCORDANCE WITH TAS-100(A)-95 (WIND DRIVEN RAIN).
3. MAXIMUM SINGLE SECTION SIZE IS 72" WIDE X 144" HIGH.
4. MAXIMUM ASSEMBLED LOUVER SIZE IS UNLIMITED WIDE X 144" HIGH.
5. SECTIONS OR ASSEMBLIES MAY BE STACKED VERTICALLY PROVIDING A SUITABLE STRUCTURAL SUPPORT IS DESIGNED AND INSTALLED BY OTHERS TO SUPPORT ALL LOADS TRANSFERRED FROM THE LOUVER.
6. CONCRETE MASONRY SHALL BE ASTM C90, TYPE II, 2,000 PSI GROUT-FILLED.
7. THE SLEEVE MOUNT STYLE LOUVER UTILIZES AN ANCHORLESS INSTALLATION METHOD THAT DOES NOT REQUIRE THE USE OF FASTENERS INTO THE SUBSTRATE. IT MAY BE INSTALLED IN ANY SUBSTRATE THAT WILL WITHSTAND THE LOADS TRANSFERRED TO IT BY THE LOUVER. AIROLITE DOES NOT DETERMINE THE STRUCTURAL INTEGRITY OF THE STRUCTURE.
8. THE CONTINUOUS ANGLE MOUNT STYLE UTILIZES A CONTINUOUS JAMB ANGLE THAT IS ATTACHED TO THE SUBSTRATE BY FASTENERS. IT MAY BE INSTALLED IN CONCRETE, CMU, STEEL, OR WOOD ACCORDING TO THE FASTENER SCHEDULE. AIROLITE DOES NOT DETERMINE THE STRUCTURAL INTEGRITY OF THE SUBSTRATE STRUCTURE.
9. LOUVER ASSEMBLY IS QUALIFIED FOR A MAXIMUM DESIGN LOAD OF +/- 150 PSF.
10. LOUVER ASSEMBLY WITHOUT VCD-40 DAMPER SHALL ONLY BE INSTALLED IN A LOCATION WHERE THE ROOM BEHIND THE LOUVER IS DESIGNED TO DRAIN WATER PENETRATING INTO THE ROOM AND THE ROOM WILL HOUSE WATER RESISTANT/WATER PROOF EQUIPMENT, COMPONENTS, OR SUPPLIES.
11. LOUVER ASSEMBLY WITH THE VCD-40 DAMPER MAY BE INSTALLED IN A LOCATION WHERE THE ROOM BEHIND THE LOUVER IS NOT DESIGNED TO DRAIN WATER PENETRATING INTO THE ROOM OR THE ROOM WILL HOUSE NON-WATER RESISTANT/WATER PROOF EQUIPMENT, COMPONENTS, OR SUPPLIES. LOUVER ASSEMBLY WITH VCD DAMPER INSTALLATION IS LIMITED TO AN ELEVATION OF 33 FT ABOVE GRADE.
12. INSTALLER TO PROVIDE SEPARATION OF DISSIMILAR MATERIALS AS REQUIRED.
13. THE VCD-40 MAY BE OPERATED BY THE MANUAL QUADRANT SHOWN ON PAGE 14/21 OR BY AN ELECTRIC OR PNEUMATIC ACTUATOR. THE DAMPER'S ACTUATOR IS NOT PART OF THIS APPROVAL, BUT SHALL BE CERTIFIED BY AN INDEPENDENT TESTING AGENCY.
14. FRAME CONSTRUCTION. HEAD AND SILL ARE SQUARE CUT. JAMBS ARE SQUARE CUT @ HEAD AND SILL. CORNERS ARE SECURED WITH (2) #10x1-1/4 SMS AND SILICONE SEALED. BLADES ARE SECURED TO JAMBS WITH (2) #10x1-1/4 SMS AND WELDED @ EACH END.
15. STEEL/STAINLESS-STEEL/ALUMINUM PARTS MAY BE MADE OUT OF ALTERNATE ALLOY THAT HAS EQUAL OR GREATER YIELD STRENGTH.
16. BLADE SUPPORT ANGLE (AND OPTIONAL BLADE SUPPORT BRACKETS) ARE ONLY REQUIRED WHEN ACTUAL LOUVER SECTION WIDTH IS GREATER THAN 36 INCHES.

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SCHOFIELD, WISCONSIN 54476
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SCALE
SHEET NO. 18 OF 21
CAD DRAWING NO. SCH601MD

TITLE
SCH601MD LOUVER
W/ AND W/O VCD-40
SLEEVE/CONTINUOUS MOUNT
NOTES/BILL OF MATERIAL

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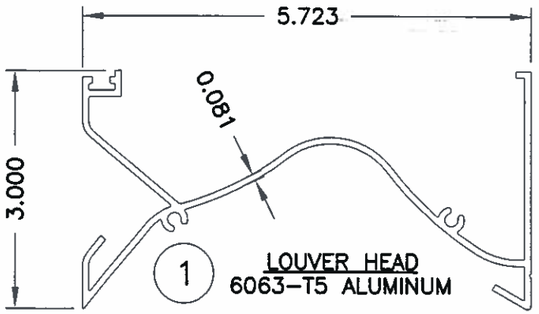
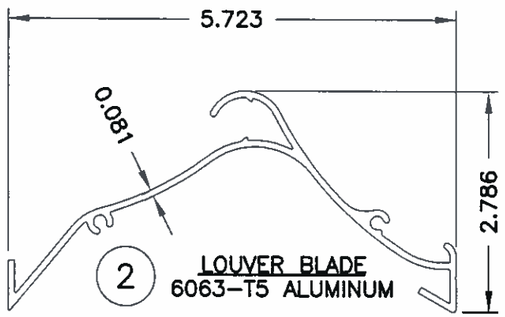
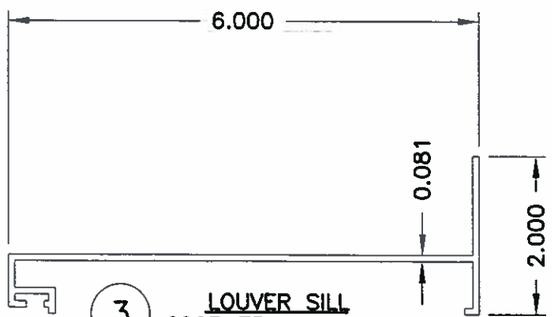


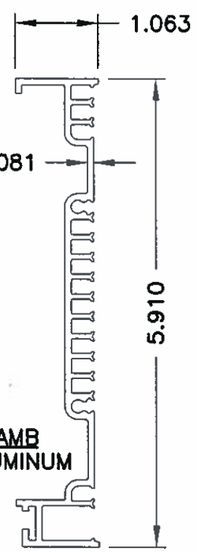
1 LOUVER HEAD
6063–T5 ALUMINUM



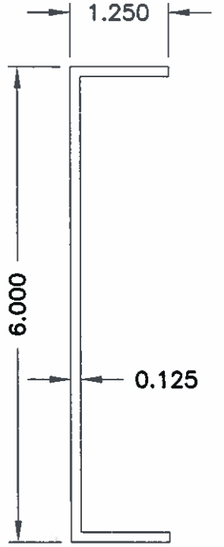
2 LOUVER BLADE
6063–T5 ALUMINUM



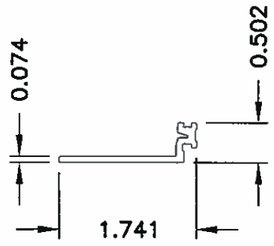
3 LOUVER SILL
6063–T5 ALUMINUM



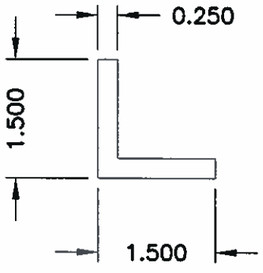
4A LOUVER JAMB
6063–T5 ALUMINUM



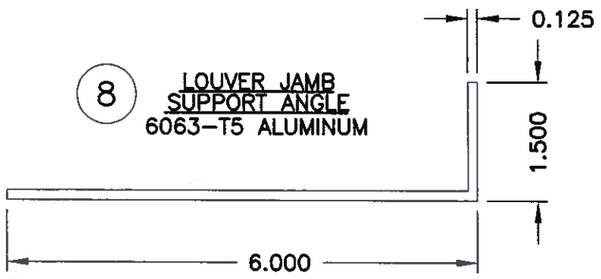
4B OPTIONAL JAMB
6063–T5 ALUMINUM



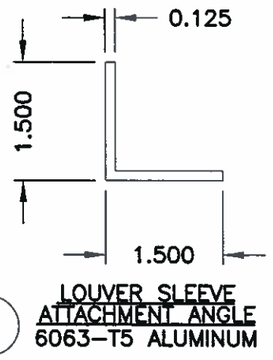
5 LOUVER/DAMPER FLANGE
6063–T5 ALUMINUM



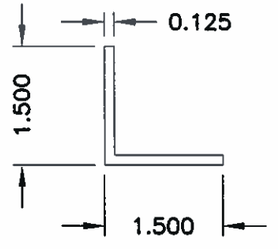
7 LOUVER BLADE SUPPORT & SLEEVE MOUNTING ANGLE
6063–T5 ALUMINUM



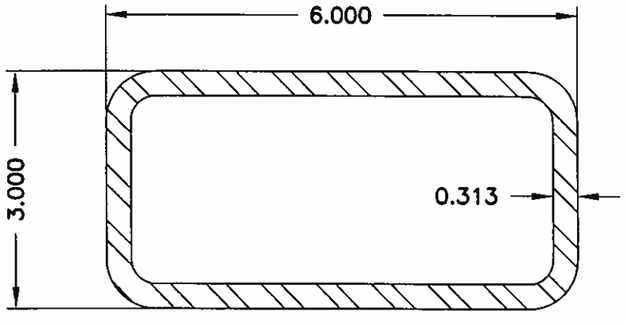
8 LOUVER JAMB SUPPORT ANGLE
6063–T5 ALUMINUM



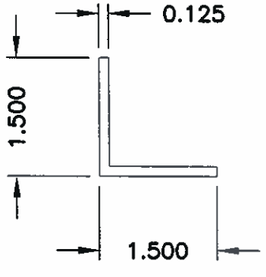
9 LOUVER SLEEVE ATTACHMENT ANGLE
6063–T5 ALUMINUM



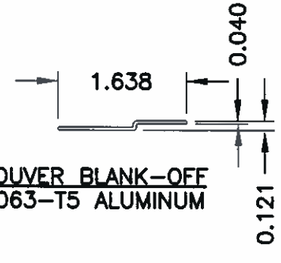
10 LOUVER SLEEVE FLANGE SUPPORT ANGLE
6063–T5 ALUMINUM



11 STEEL TUBE
A36



12 LOUVER SILL PAN ANGLE
6063–T5 ALUMINUM



13 LOUVER BLANK–OFF
6063–T5 ALUMINUM

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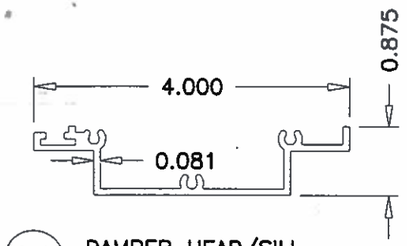
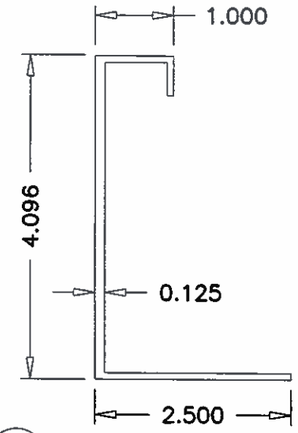
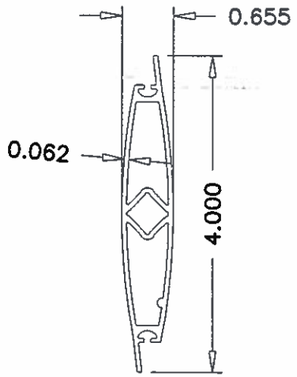


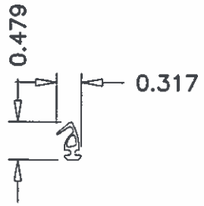
14 DAMPER HEAD/SILL
6063–T5 ALUMINUM



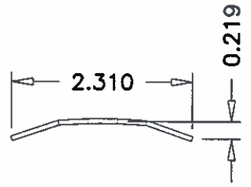
15 DAMPER JAMB
6063–T5 ALUMINUM



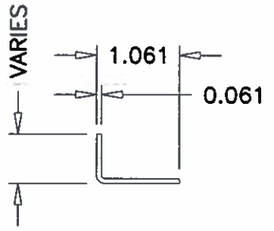
16 DAMPER BLADE
6063–T5 ALUMINUM



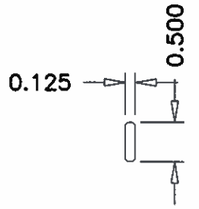
17 DAMPER BLADE SEAL
MATERIAL VARIES



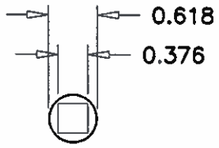
18 DAMPER JAMB SEAL
.007" SS



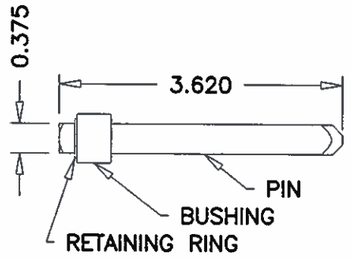
19 DAMPER TOP/BOTTOM CLOSURE
ALUMINUM



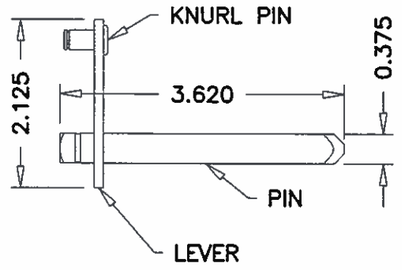
20 DAMPER LINKAGE BAR
MATERIAL VARIES



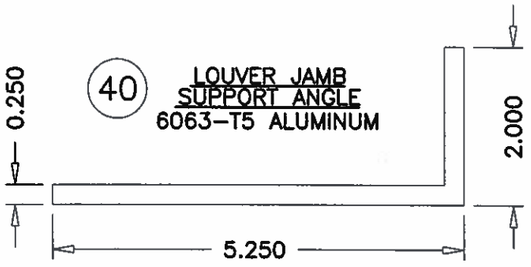
21 DAMPER AXLE BUSHING (.445" LG.)
MATERIAL VARIES



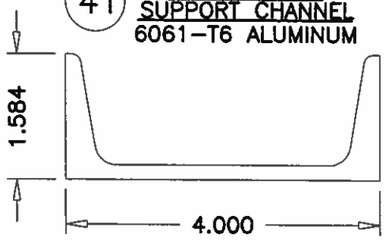
22 NON–DRIVE DAMPER AXLE ASSY.
MATERIAL VARIES



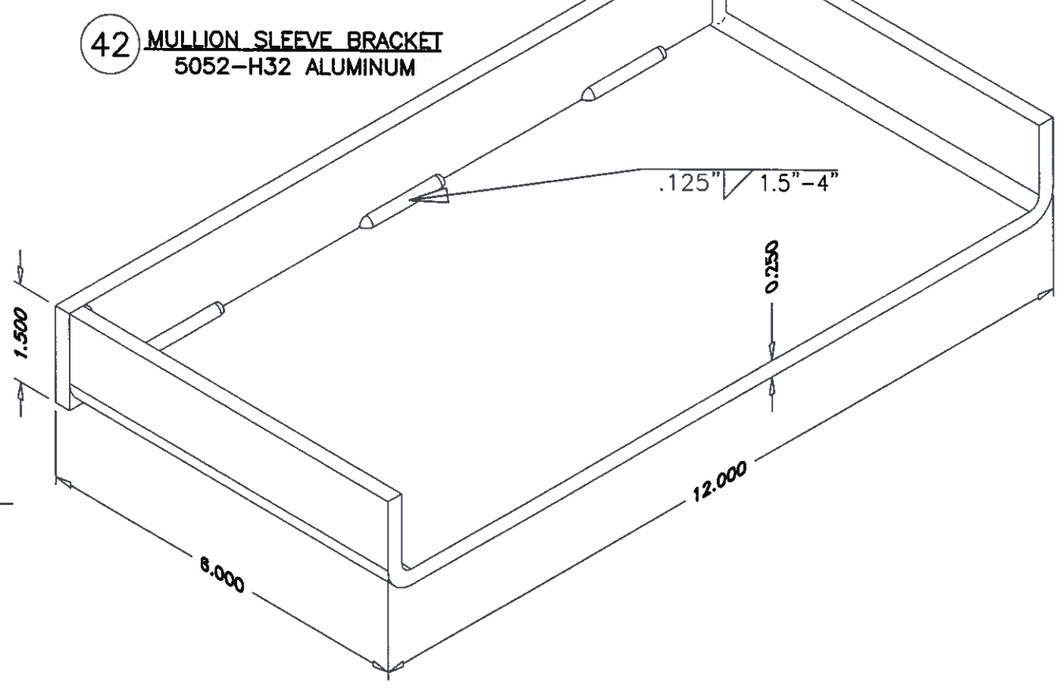
23 DRIVE–SIDE DAMPER AXLE ASSY.
MATERIAL VARIES



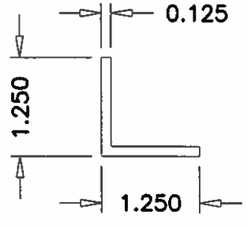
40 LOUVER JAMB
SUPPORT ANGLE
6063–T5 ALUMINUM



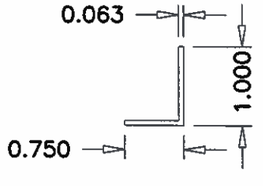
41 LOUVER JAMB
SUPPORT CHANNEL
6061–T6 ALUMINUM



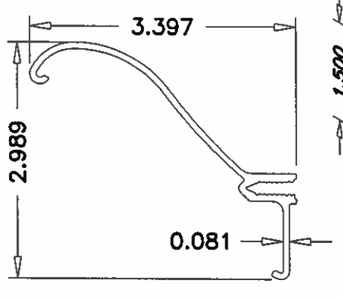
42 MULLION SLEEVE BRACKET
5052–H32 ALUMINUM



43 LOUVER JAMB
ATTACHMENT ANGLE
6063–T5 ALUMINUM



44 DAMPER SILL DAM
ALUMINUM



45 OPTIONAL BLADE
SUPPORT BRACKET
6063–T5 ALUMINUM

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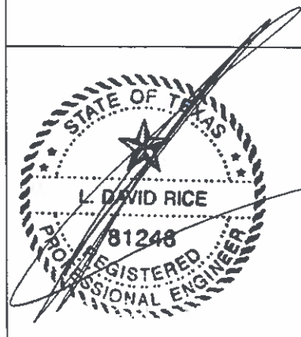

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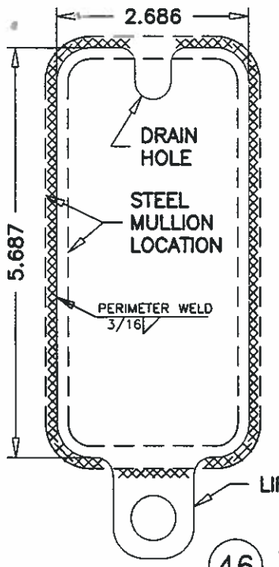
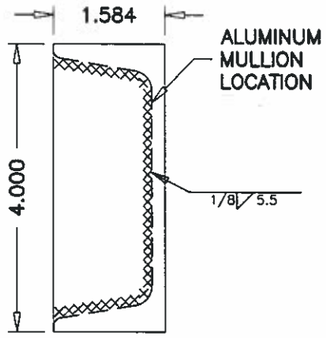
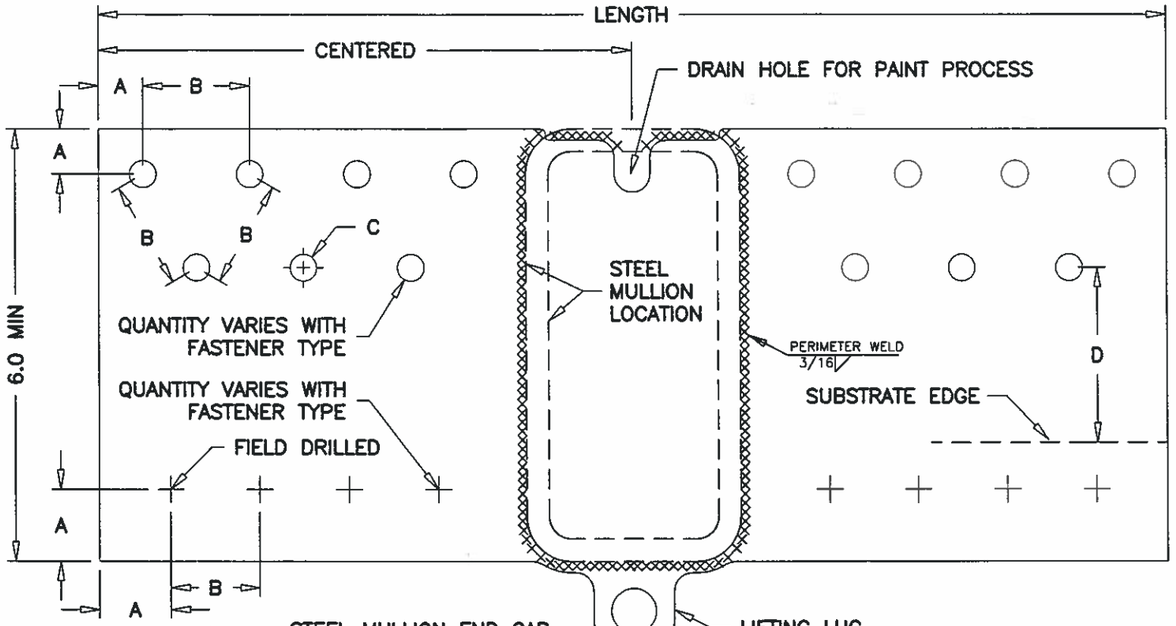


46 STEEL MULLION END CAP FOR SLEEVE MOUNT
0.313 STEEL



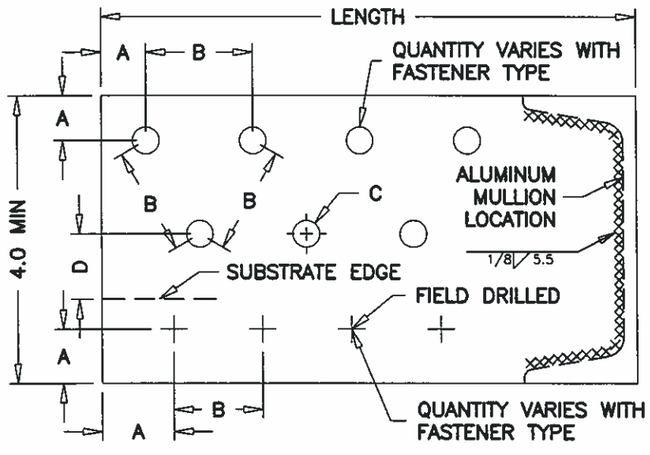
47 ALUMINUM MULLION END CAP FOR SLEEVE MOUNT
5052-H32, 0.25 ALUMINUM



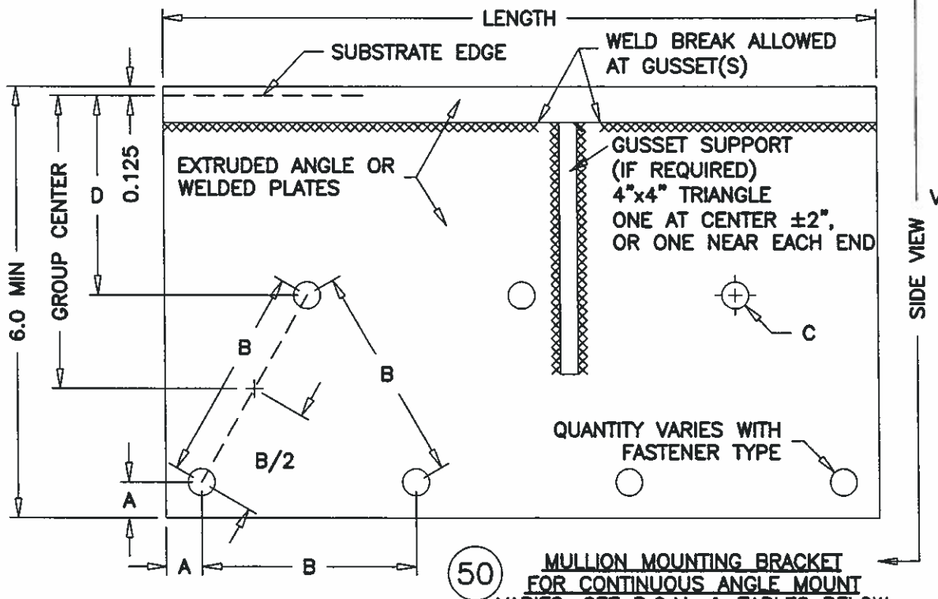
48 STEEL MULLION END CAP FOR CONTINUOUS ANGLE MOUNT
0.313 STEEL

DIM.	DESCRIPTION
A	≥0.375/0.50 FOR 1/4ø FASTENER IN ALUMINUM/STEEL
A	≥0.563/0.75 FOR 3/8ø FASTENER IN ALUMINUM/STEEL
B	≥FASTENER SPACING DISTANCE
C	≥FASTENER CLEARANCE HOLE DIAMETER
D	≥FASTENER SUBSTRATE EDGE DISTANCE

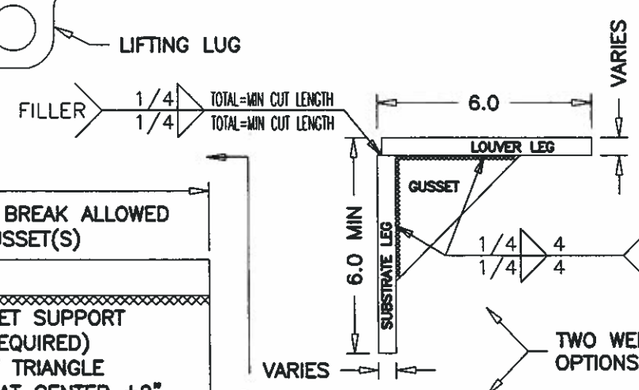
GROUP CENTER = CENTER OF FASTENER HOLE PATTERN



49 ALUMINUM MULLION END CAP FOR CONTINUOUS ANGLE MOUNT
5052-H32, 0.25 ALUMINUM



50 MULLION MOUNTING BRACKET FOR CONTINUOUS ANGLE MOUNT
VARIES, SEE B.O.M. & TABLES BELOW



SIDE VIEWS SHOWN AT 1/2 SCALE

FILLER MAT'L.
ALUM=4043 OR 5356
STEEL=E70XX

MULLION MOUNTING BRACKET TABLE, 1 OF 2						
LOUVER HEIGHT	SUBSTRATE LEG THK.	LOUVER LEG THK.	GUSSET THK.	MIN CUT LENGTH	MAT'L TYPE	PROCESS TYPE
≤144	≥1/2	≥1/2	NA	16.5	6061-T6	EXTRUDED
≤144	≥7/16	≥7/16	NA	24	A36	ROLLED
≤144	≥1/2	≥1/2	NA	18.5	A36	ROLLED
≤144	≥5/16	≥1/4	≥5/16	20	6061-T6	WELDED
≤144	≥5/16	≥3/16	≥5/16	20	STEEL	WELDED

MULLION MOUNTING BRACKET TABLE, 2 OF 2						
LOUVER HEIGHT	SUBSTRATE LEG THK.	LOUVER LEG THK.	GUSSET THK.	MIN CUT LENGTH	MAT'L TYPE	PROCESS TYPE
≤96	≥1/2	≥1/2	NA	6.6	6061-T6	EXTRUDED
≤96	≥3/8	≥3/8	NA	12.34	STEEL	ROLLED
≤96	≥7/16	≥7/16	NA	9	STEEL	ROLLED
≤96	≥5/16	≥1/4	≥5/16	9	6061-T6	WELDED
≤96	≥5/16	≥3/16	≥5/16	9	STEEL	WELDED

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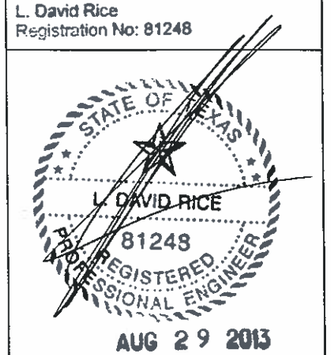

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