

## PARTIAL SHADE LOCATION PLAN @ LEVEL FIVE

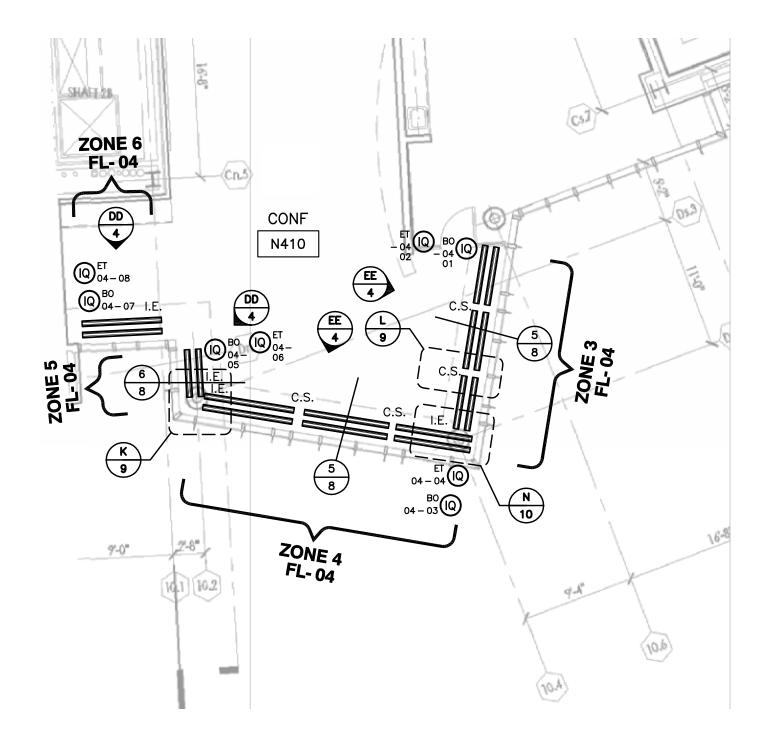
SCALE: 1/8"=1'-0"

NOTES:

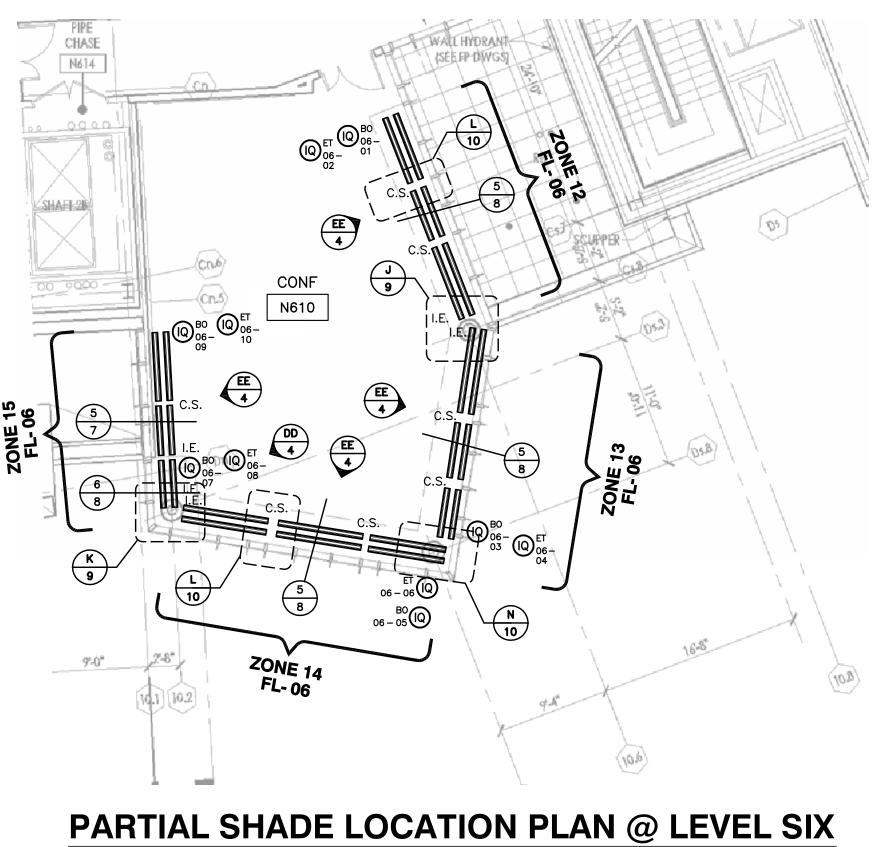
- ALL DIMENSIONS AND JOB CONDITIONS TO BE FIELD VERIFIED BY DEALER BEFORE FABRICATION.
   ALL MATERIALS, COLORS, FINISHES, ETC. ARE TO BE MechoShade STANDARDS UNLESS OTHERWISE NOTED.

3 - MechoShade Systems, Inc. RESERVES THE RIGHT TO MAKE DESIGN MODIFICATIONS AND TECHNICAL CHANGES WITHOUT PRIOR NOTICE. 4 - EUROTWILL SHADECLOTH TO BE No. 6000 SERIES - 96" WIDTH - RAILROADED WIDTH FOR HEIGHT WITH SEAM/BATTEN AS SHOWN ON ABOVE ELEVATIONS -

– STANDARD MechoShade COLOR AS APPROVED BY ARCHITECT. 5 – BLACKOUT SHADECLOTH TO BE No. 0700 SERIES – 72" WIDTH – RAILROADED WIDTH FOR HEIGHT WITH SEAM/BATTEN AS SHOWN ON ABOVE ELEVATION – - STANDARD MechoShade COLOR AS APPROVED BY ARCHITECT.



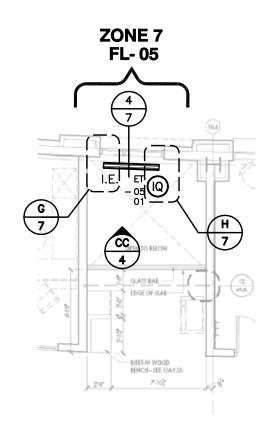
### PARTIAL SHADE LOCATION PLAN @ LEVEL FOUR SCALE: 1/8"=1'-0"



SCALE: 1/8"=1'-0"

SHOP DRAWING DIMENSIONS DETAILS: HARDWARE SIZES ± 1/32" (0.79mm)	4				: <b>Ö:</b> MechoShade Systems, Inc.	JOB UMASS AMHERST NEW SCIENCE BUILDING	DWG NO. M-3314EM REV.
BOLL DIAMETER SIZES $+ 1/8"$ (3, 18mm)	3				ee The Architect's Choice™	AMHERST, MA	JOB NO. 525031
SHADE BANDS: EDGE CLEARANCE ± 3/16" (4.76mm)	2				42-03 35th Street Long Island City NY 11101	TITLE PROPOSED DETAILS	PROPOSAL NO. 185318-0-1
_ RollerShade width and height dimensions (W x HT) are approximate, subject to final field dimensions to be scheduled by the Dealer/Contractor and provided to MechoShade Systems for fabrication in accordance with Contract Documents.	1	07/14/11	NO CHANGE	К.С.	T: +1 (718) 729-2020	"ELECTRO" AND "MECHO" (MANUAL) SHADES	DATE 04/11/11 AS NOTED
Shop drawings are for typical details and shade locations only. Final sizes are not included. All blocking and supports are shown for reference only. Blocking design is not included in this Shop Drawing.	NO.	DATE	DESCRIPTION	BY	F: +1 (718) 729-2941 www.MechoShadeSystems.com	ARCHITECT WILSON ARCHITECTS, INC.	DWN. BY J.S.R. CKD. BY G.B.
Blocking is Not In Contract. FILE NAME: I:\Shop DWGs Current\M-3314EM - UMass Amherst - New Science Building\Rev. 1\Loc-Plan.dwg	REVISIONS					DEALER KILCOURSE WINDOW PRODUCTS	SHEET NO. 1 OF 15

		PI	RINTS	
BW	SEP	FOR	то	DATE
4	1	APPL	DLR	04/11
4	1	APPL	DLR	07/14



### PARTIAL SHADE LOCATION PLAN @ LEVEL FIVE - BREAK

1/8" = 1'-0"

· · · · · · · · · · · · · · · · · · ·		
		KEY
C.S.	_	CENTER SUPPORT
D.E.	_	DRIVE END
I.E.	-	IDLE END
0.H.	-	OPENING HEIGHT
0.0.W.	-	OVERALL OPENING WIDTH
0.W.		OPENING WIDTH
R.U.D.	-	ROLL UP DIAMETER
S.C.	-	SHADECLOTH
S.O.H.		SHADE OPENING HEIGHT
S.O.W.		SHADE OPENING WIDTH
V.I.F.		VERIFY IN FIELD
N.I.C.	-	NOT IN CONTRACT
		ELEVATION NUMBER
$\left( \begin{array}{c} \frac{7\pi}{3} \end{array} \right)$		
		SHEET NUMBER
		- SHADECLOTH
$M_{02}^{\text{TV}}$		- FLOOR NUMBER (OPTIONAL)
$\square$		- MOTOR NUMBER
1223		ROOM NUMBER
		MOTORIZED SHADE

NLS	SB 1	NLSB 2					
Ν	S	Ν	S				



# MANUAL SHADE SCHEDULE

				SIZE (IN	ICHES)		VERT/	TUBE			MECHO	DETAIL	
ITEM	FLOOR	ROOM	QUANTITY	S.O.W. (V.I.F.)	S.O.H. (V.I.F.)	FABRIC	RR	DIAM. (INCHES)	RUD	BRACKET	ELEV.	HEAD DET.	REMARKS
1		N240D LAB	2	117	139	6000	RR		2.97				
2	T T	N240C LAB	2	117	139	6000	RR		2.97	1			
3	F	N240B LAB	2	117	139	6000	RR		2.97	1			
4	F	N240A LAB	2	117	139	6000	RR		2.97	1			
5	F	N2452 COMPUTATION	2	117	139	6000	RR		2.97	1	BB		1 BATTEN
6	F	N260A LAB	2	117	139	6000	RR		2.97	1			IBATIEN
7	F	N260B LAB	2	117	139	6000	RR		2.97	1			
8	F	N260C LAB	2	117	139	6000	RR		2.97	1			
9	ľ	N260D LAB	2	99	139	6000	RR		2.97	1			
10	ľ		1	36	192	6000	RR	1.875	3.03	M5 PKT		1 1	
11			1	56	192	6000	RR		2.91	1			
12			1	85	192	6000	RR		2.91	1			
13			1	87	192	6000	RR		3.12	]			
14		N299X ENTRY LAB	1	72	128	6000	RR		2.54	]	AA		
15	ĸ	N200X ENTRI EAD	1	52	192	6000	RR		3.3		~~~		
16	FLOOR		1	99	192	6000	RR		3.37				2 BATTENS
17	<b>d</b>		1	81	192	6000	RR		2.91				
18	Ð		1	66	192	6000	RR		2.91				
19	8		1	46	192	6000	RR		3.03				
20	SECOND	N285 BUILDING MANAGER	1	75	94	6000	V	1.5	2.32	MECHO 5	AA	2	
21	Γ	N275 FAC. OFF	1	95	139	6000	V		2.84				
22		N273 FAC. OFF	1	95	139	6000	V		2.84	]			
23		N271 FAC. OFF	1	95	139	6000	V		2.84	]			
24		N269 POST DOCS	1	95	139	6000	V		2.84				
25		N267 POST DOCS	1	95	139	6000	V		2.84				
26		N265 POST DOCS	1	95	139	6000	V		2.84				
27	L	N263 FAC. OFF	1	95	139	6000	V	1.875	2.84	M5 PKT	AA	1	
28	L	N261 POST DOCS	1	95	139	6000	V		2.84				
29	Ļ	N235 POST DOCS	1	95	139	6000	V		2.84				
30	Ļ	N233 FAC. OFF	1	95	139	6000	V		2.84	4			
31	Ļ	N231 FAC. OFF	1	95	139	6000	V		2.84	4			
32	Ļ	N229 POST DOCS	1	95	139	6000	V		2.84	4			
23	Ļ	N227 FAC. OFF	1	95	139	6000	V		2.84	4			
24		N225 FAC. OFF	1	67	139	6000	V		2.61				
	TOTAL	. @ 2ND FLOOR	43										

				SIZE (IN	ICHES)		VERT/	TUBE			MECHO	DETAIL	
EMF	LOOR	ROOM	QUANTITY	S.O.W. (V.I.F.)	S.O.H. (V.I.F.)	FABRIC	RR	DIAM. (INCHES)	RUD	BRACKET	ELEV.	HEAD DET.	REMARKS
5		N340D LAB	2	121	111	6000	RR	(interrice)	2.81				
6	F	N340C LAB	2	120	111	6000	RR		2.81				
7	-	N340B LAB	2	120	111	6000	RR		2.81				1 BATTEN
	H	N340A LAB	2	120	111	6000	RR		2.81				
	-	N352 COMPUTATION	2	75	111	6000	V	1.875	2.43	M5 PKT	BB	1	
5	F	N360A LAB	2	120	111	6000	RR		2.43				
$\neg$	H	N360B LAB	2	120	111	6000	RR		2.81	-			1 BATTEN
	F	N360C LAB	2	120	111	6000	RR		2.81				
	F	N360D LAB	1	96	60	6000	V	1.5	2.07	MECHO 5	AA	2	
	F		1	31	163	6000	RR		2.87		701		
				56	192	6000	RR		2.91	1			
			1	85	192	6000	RR		2.91				
				87	192	6000	RR		3.12	1			
			1	72	192	6000	RR		2.91	1			
		N390 BREAKOUT	1	52	192	6000	RR		2.91	1			
			1	99	192	6000	RR		3.37	1			2 BATTENS
-				81	192	6000	RR	1.875	2.91	М5 РКТ	AA	1 1	
2				66	192	6000	RR		2.91	1 1			
3			1	46	192	6000	RR		3.03	1		-	
1	F	N375 FAC. OFF	1	95	123	6000	V		2.75	1 1			
-	F	N373 FAC. OFF	1	95	123	6000	v		2.75	1			
	<b>∝</b>	N371 POST DOCS	1	95	123	6000	V		2.75	1			
	8	N369 FAC. OFF	1	95	123	6000	V		2.75	1		1 1	
	FLOOR	N367 FAC. OFF	1	95	123	6000	V		2.75	1			
	ē	N365 POST DOCS	1	95	84	6000	V		2.25	MECHO 5	AA	2	
	THIRD	N363 FAC. OFF	1	95	123	6000	V		2.75				
	F	N361 POST DOCS	1	95	123	6000	V	1.875	2.75	M5 PKT	AA	1	
2		N335 POST DOCS	1	95	123	6000	V		2.75	1		1 1	
;		N333 FAC. OFF	1	95	84	6000	V	1.5	2.25	MECHO 5	AA	2	
		N331 FAC. OFF	1	95	123	6000	V	1.875	2.75	M5 PKT	AA	1	
		N329 POST DOCS	1	95	84	6000	V	1.5	2.25	MECHO 5	AA	2	
		N327 POST DOCS	1	95	123	6000	V		2.75				
7		N325 FAC. OFF	1	67	123	6000	V		2.51	1	AA		
3			1	98	139	6000	RR		2.97	1		1	1 BATTEN
)			6	110	139	6000	RR		2.97	1	BB	1	IDATIEN
			1	63	139	6000	RR		2.61	] [	AA	] [	
		S350 SHELL	1	84	139	6000	RR		2.61	] [	~~	] [	
2			2	82	139	6000	RR		2.61	] [	BB	] [	
1			5	107	139	6000	RR		2.97		00		1 BATTEN
			1	99	139	6000	RR	1.875	2.97	M5 PKT		1	IDATIEN
	Γ		1	54	139	6000	RR		2.61	]		[	
			1	99	139	6000	RR		2.97	]		[	1 BATTEN
			1	39	139	6000	RR		2.61	]		[	
		N310 SEVERY	1	57	139	6000	RR		2.61	1 1	AA	[	
			1	69	139	6000	RR		2.61	]		[	
			1	63	139	6000	RR		2.61	]		[	
			1	46	139	6000	RR		2.61	]		[	
			2	65	163	6000	RR		2.75				

<u>NOTES:</u> SEE SHEET#1

I:\Shop DWGs Current\M-3314EM - UMass Amherst - New Science Building\Rev. 1\Schedule-Elevations.dwg, 7/14/2011 1:43:04 PM, Bluebeam PDF10 Printer HighRes.pc3

				SIZE (IN	ICHES)		VERT/	TUBE			MECHO	DETAIL	
ITEM	FLOOR	ROOM	QUANTITY	S.O.W.	S.O.H.	FABRIC	RR	DIAM.	RUD	BRACKET	ELEV.	HEAD DET.	REMARKS
				(V.I.F.)	(V.I.F.)			(INCHES)			LLLV.	HEAD DET.	
73	Ļ	N440D LAB	2	121	111	6000	RR		2.81				
74		N440C LAB	2	120	111	6000	RR		2.81				1 BATTEN
75	- F	N440B LAB	2	120	111	6000	RR	1 075	2.81		BB		
76		N440A LAB	2	120	111	6000	RR	1.875	2.81	M5 PKT			
77		N452 COMPUTATION	4	75	111	6000 6000	RR		2.43				
78 79		N460ASHELL	5	120 75	111 111	6000	RR RR		2.81 2.43	-			1 BATTEN
80		N400ASHELL		96	60	6000	RR	1.5	2.43	MECHO 5		2	
81	ŀ			52	192	6000	RR	1.0	2.07	MECHO 5		- 2	
82			1	56	192	6000	RR		2.91				
83			1	72	192	6000	RR		2.91				
84			1	85	192	6000	RR		2.91				
85		N490 BREAKOUT		87	192	6000	RR		3.12		AA		
86			1	99	192	6000	RR		3.37				2 BATTENS
87			1	81	192	6000	RR		2.91				2 5777210
88			1	66	192	6000	RR		2.91				
89			1	46	192	6000	RR		3.03				
90	l l		1	33	192	6000	RR	1.875	3.03	M5 PKT		1	
91		N487 POST DOC	3	99	192	6000	RR		3.37	1 1	BB	1 1	2 BATTENS
92			1	72	192	6000	RR		2.91			1 1	
93	L L		1	111	192	6000	RR		3.37				2 BATTENS
94			1	82	192	6000	RR		2.91				
95		N485 POST DOC	1	69	192	6000	RR		2.91	AA	^ ^	АА	
96	ĸ	N403 POST DOC	1	99	192	6000	RR		3.37		~~		2 BATTENS
97	ŏ		1	33	192	6000	RR		3.03				
98	푸니		1	109	192	6000	RR		3.37			[	2 BATTENS
99	FOURTH FLOOR	N483 SHELL	1	91	192	6000	V		3.12				
100	ا چ	N475 SHELL	1	95	84	6000	V	1.5	2.25	MECHO 5	AA	2	
101	E L	N473 SHELL	1	95	123	6000	V		2.75				
102		N471 SHELL	1	95	123	6000	V	1.875	2.75	M5 PKT	AA		
103		N467 POST DOCS	1	95	123	6000	V		2.75				
104		N65 POST DOCS	1	95	84	6000	V V	1.5	2.25	MECHO 5	AA	2	
105		N463 POST DOCS	1	95	84	6000			2.25				
106 107		N461 POST DOCS	1	95 95	123 123	6000 6000	V	1.875	2.75 2.75	M5 PKT	AA	1	
107	ŀ	N435 POST DOCS N433 FAC. OFF	1	95	84	6000	V		2.75				
108	ŀ	N433 FAC. OFF		95	84	6000	V	1.5	2.25	MECHO 5	AA	2	
110	ŀ	N429 FAC. OFF	1	95	84	6000	v	1.0	2.25				
111	ŀ	N427 FAC. OFF		95	123	6000	v		2.75				
112	ŀ	N425 FAC. OFF	1	67	123	6000	v		2.51		AA	1	
113	ŀ		5	99	198	6000	RR		3.41	1 ·			
114		N415 CONF.	5	99	198	BO 0700	RR		3.09		GG	3	2 BATTENS
115	ŀ		2	67 1/2	196	6000	RR		3.15	1 1			
116			2	99	196	6000	RR		3.4		BB		
117		S450 SHELL	1	108	139	6000	RR	1 075	3.4	MEDKT	AA	1 1	1 BATTEN
118			4	87	196	6000	RR	1.875	3.15	M5 PKT	BB	1 1	
119			1	99	139	6000	RR		2.97	[		1 1	1 BATTEN
120	F		1	53	163	6000	RR		2.75			'	
121			1	33	163	6000	RR		2.87		AA	[	
122		N499L BREAKOUT	1	69	163	6000	RR	[	2.75		~~	[	
123			1	128	163	6000	RR	[	3.1			[	1 BATTEN
124			1	31	163	6000	RR		2.87				
	TOTA	L @ 4TH FLOOR	78										

			SIZE (IN	ICHES)		VERT/	TUBE			MECHO	DETAIL	
EMFLOOR	ROOM	QUANTITY	S.O.W.	S.O.H.	FABRIC	RR	DIAM.	RUD	BRACKET	ELEV.	HEAD DET.	REMARKS
0.5			(V.I.F.)	(V.I.F.)	0000		(INCHES)	0.04			┞───┼	
25	N540D LAB	2	121	111	6000	RR RR	4	2.81				
26	N540C LAB	2	120	111	6000		4	2.81				1 BATTEN
27	N540B LAB N540A LAB	2	120 120	111 111	6000 6000	RR RR	4	2.81	-			
28		2	75	111		V	1.875	2.81	M5 PKT	BB	1  -	
29	N552 COMPUTATION	4			6000		4	2.43				
30 31	N560A SHELL	2	120 120	111 111	6000 6000	RR RR	4	2.81 2.81	-			1 BATTEN
	N560B SHELL N560C SHELL	2	120	111	6000	RR	4	2.81				IDATIEN
32 33		2	96	96	6000	RR	1.5	2.81	MECHO 5	AA	2	
34	N560DSHELL	1	33	190	6000	RR	1.5	3.03	MECHO 5	AA	2	
35	N587 POST DOC	3	99	192	6000	RR	4			BB	4	
35	1007 - 001 000	1	72	192	6000	RR		3.37 2.91		DD	4	2 BATTENS
37		1	111	192	6000	RR	{ }	3.37				2 BATTENS
38		1	82	192	6000	RR	1.875	2.91	М5 РКТ			2 DATIENS
38		1	96	192	6000	RR	1.075	2.91		AA	'	
40	N585 POST DOC	1	99	192	6000	RR	4	3.37		~~		2 BATTENS
					6000	RR	4					2 DATTENS
41 42		1	33 109	192 192	6000	RR		3.03				2 BATTENS
42	N575 SHELL	1	95	84	6000	V	1.5	2.25	MECHO 5	AA	2	2 DATTENS
43 44 K	N573 SHELL	1	95	123	6000	V	1.5	2.25	MECHO 5	AA	2	
44 0	N573 SHELL N571 SHELL	1	95	123	6000	V	4	2.75				
44 45 46			95			V	1.875		M5 PKT	AA	1  -	
40 H 47 H	N567 POST DOCS N565 POST DOCS	1		123 123	6000 6000	V	4	2.75 2.75	-			
47 HL HL	N563 POST DOCS		95 95	84	6000	V	1.5	2.75	MECHO 5	AA	2	
	N561 POST DOCS	1	95	123	6000	V	1.5	2.25	MECHO 5	AA	2	
49 50	N535 POST DOCS	1	95	123	6000	V	1.875	2.75	М5 РКТ	AA		
		1	95			V	1.075	2.75		AA	'⊢	
51	N533 FAC. OFF	1	95	123	6000 6000	V	1.5		MECHOE			
52	N531 FAC. OFF N529 FAC. OFF			84			1.5	2.25	MECHO 5	AA	2	
53	N529 FAC. OFF N527 FAC. OFF	1	95	123	6000	V	4	2.75	-	AA		
54		1	95 67	123	6000	V		2.75		AA	'	
55 56	N525 FAC. OFF			123	6000 6000	RR		2.51 3.41	4		<u>↓                                     </u>	
57	N515 CONF.	5	99 99	198 198	BO 0700	RR		3.41	-	GG	3	2 BATTENS
58		2	67 1/2	196	6000	RR	{ }	3.15	4 1		+	
59		2	99	196	6000	RR	4	3.15		BB		2 BATTENS
60	S550 SHELL	1	108	196	6000	RR	1.875	3.4	М5 РКТ	AA	4	1 BATTEN
61	SUD ONELL	4	87	139	6000	RR	1.075	3.4	WISPKI	BB	4	IDATIEN
62		4	67	139	6000	RR	4	2.61	4 1	DD	4	
63		1	53	163	6000	RR		2.01	4		1  -	
64		1	33	163	6000	RR	{ }	2.75	-			
65	N599L BREAKOUT	1	69	163	6000	RR		2.87	-	AA		
66	NUSSE BREAKOUT	1	128	163	6000	RR	{ }	3.1				1 BATTEN
67		1	31	163	6000	RR	{ }	2.87				1 BATTEN
	AL @ 5TH FLOOR	68	31	105	0000	NK		2.07				IDATIEN

SHOP DRAWING DIMENSIONS	4		
DETAILS: HARDWARE SIZES ± 1/32" (0.79mm) ROLL DIAMETER SIZES ± 1/8" (3,18mm)	3		
SHADE BANDS: EDGE CLEARANCE ± 3/16" (4.76mm)	2		
RollerShade width and height dimensions (W x HT) are approximate, subject to final field dimensions to be scheduled by the Dealer/Contractor and provided to MechoShade Systems for fabrication in accordance with Contract Documents		07/14/11	NO C
Shop drawings are for typical details and shade locations only. Final sizes are not included. All blocking and supports are shown for reference only. Blocking design is not included in this Shop Drawing.	NO	. DATE	DESCRIP
Blocking is Not In Contract. FILE NAME: I:\Shop DWGs Current\M-3314EM - UMass Amherst - New Science Building\Rev. 1\Sched	ule-Elevations.dwg		REVISIONS

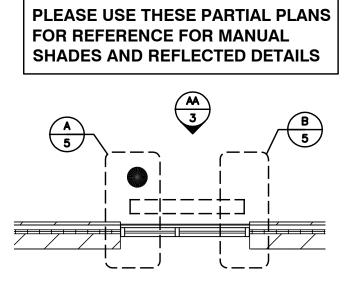
No change     κ.c.     Long Island City NY 11101     PROPOSED DETAILS     PROPOSED DETAILS       No change     κ.c.     T: +1 (718) 729-2020     "ELECTRO" AND "MECHO" (MANUAL) SHADES     Date 04/11/11     Scale 04/11/11			: Set MechoShade Systems, Inc.	JOB UMASS AMHERST NEW SCIENCE BUILDING AMHERST, MA	DWG NO. M-3314EM REV. 1 JOB NO. 525031
	NO CHANGE	К.С.	T: +1 (718) 729-2020	PROPOSED DETAILS	185318-0-1
DESCRIPTION     BY     F: +1 (718) 729-2941 www.MechoShadeSystems.com     ARCHITECT     WILSON ARCHITECTS, INC.     DWN. BY     J.S.R.     CKD. BY     G.B.	DESCRIPTION	BY		ARCHITECT WILSON ARCHITECTS, INC.	
REVISIONS       Copyright © 2006 MechoShade Systems Inc.       DEALER       KILCOURSE WINDOW PRODUCTS       SHEET NO.       2       0F       15	REVISIONS			DEALER KILCOURSE WINDOW PRODUCTS	SHEET NO. 2 OF 15

	_	Pf	RINTS	
8w	SEP	FOR	то	DATE
4	1	APPL	DLR	04/11
4	1	APPL	DLR	07/14

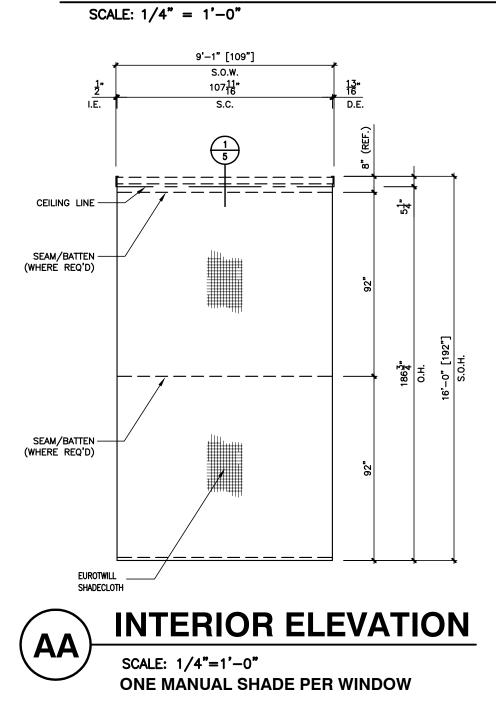
# MANUAL SHADE SCHEDULE (CONT'D)

				SIZE (IN	ICHES)		VERT/	TUBE			MECHO	DETAIL	
ITEM	FLOOR	ROOM	QUANTITY	S.O.W. (V.I.F.)	S.O.H. (V.I.F.)	FABRIC	RR	DIAM. (INCHES)	RUD	BRACKET	ELEV.	HEAD DET.	REMARKS
168		N615 CONF.	5	99	198	6000	RR		3.41		GG	3	2 BATTENS
169		1010 0011 :	5	99	198	BO 0700	RR		3.09		00	Ŭ	2 DATIENS
170	۲		1	135	139	6000	RR		2.97				
171	OOR		2	6 110 120 6000 BB 2.07			2 BATTENS						
172	Ę	S650 SHELL	6	119	139	6000	RR	1.875	2.97	М5 РКТ			1 BATTEN
173	Ξ	3000 SHELL	4	87	139	6000	V	1.075	2.61	MJERI	AA 1		
174	IXTH		5	119	139	6000	RR		2.97	]	~~	'	1 BATTEN
175	S		1	67	139	6000	V	]	2.61	]			
176		N699L CENTRAL LOBBY	1	99	163	6000	RR		3.1				1 BATTEN
177		N699L CENTRAL LOBB	1	62	163	6000	V		2.75	]			
	TOTAL @ 6TH FLOOR 31												
GRAND TOTAL 2													

### MANUAL SHADES



### PARTIAL SHADE PLAN FOR **ONE SHADE PER WINDOW**

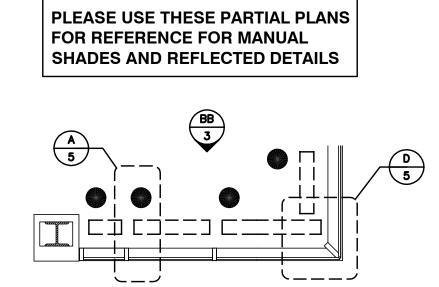


<u>NOTES:</u> SEE SHEET#1

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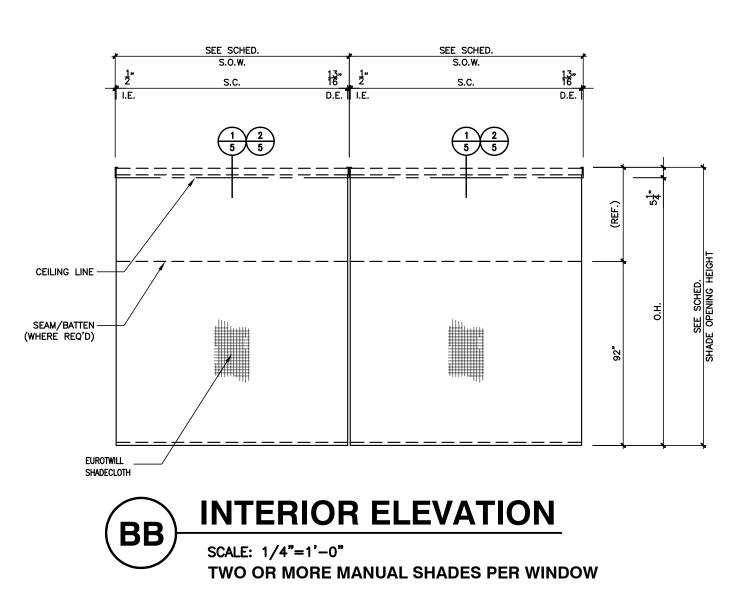


MANUAL SHADES



# PARTIAL SHADE PLAN FOR TWO OR MORE SHADES PER WINDOW

SCALE: 1/4" = 1'-0"

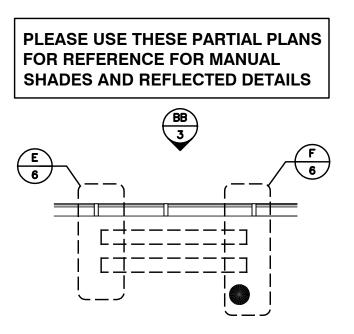


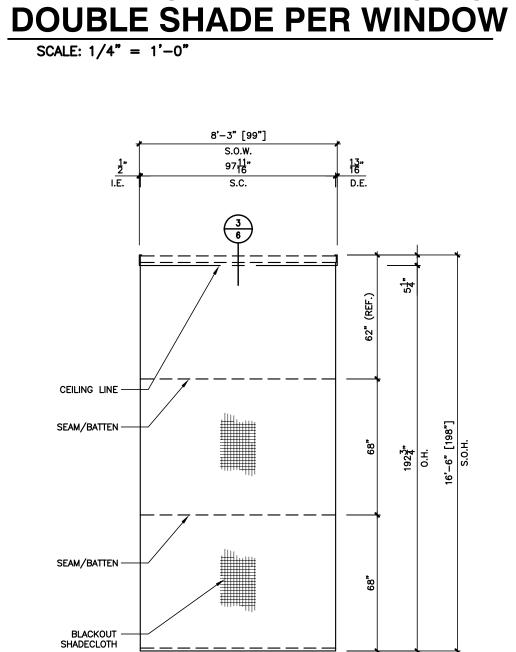
 $(\mathbf{GG})$ 

			_			
SHOP DRAWING DIMENSIONS	4			H MashaQhada Gustama Isa	JOB UMASS AMHERST	DWG NO. M-3314EM REV. 1
DETAILS: HARDWARE SIZES ± 1/32" (0.79mm) ROLL DIAMETER SIZES ± 1/8" (3,18mm)	3			:©: MechoShade Systems, Inc. The Architect's Choice™	NEW SCIENCE BUILDING AMHERST, MA	JOB NO. 525031
SHADE BANDS: EDGE CLEARANCE $\pm 3/16"$ (3, 161111)	2			42-03 35th Street	TITLE	PROPOSAL NO. 185318-0-1
RollerShade width and height dimensions (W x HT) are approximate, subject to final field dimensions to be scheduled				Long Island City NY 11101 T: +1 (718) 729-2020	PROPOSED DETAILS "ELECTRO" AND "MECHO" (MANUAL) SHADES	DATE SCALE
by the Dealer/Contractor and provided to MechoShade Systems for fabrication in accordance with Contract Documents. Shop drawings are for typical details and shade locations only. Final sizes are not included.	/1 07/14/11	NO CHANGE	K.C.	F: +1 (718) 729-2941		
All blocking and supports are shown for reference only. Blocking design is not included in this Shop Drawing.	NO. DATE	DESCRIPTION	BY	www.MechoShadeSystems.com	WILSON ARCHITECTS, INC.	DWN. BY J.S.R. CKD. BY G.B.
Blocking is Not In Contract. FILE NAME: I:\Shop DWGs Current\M-3314EM - UMass Amherst - New Science Building\Rev. 1\Schedule-Elevations.dw	9	REVISIONS		Copyright $^{\odot}$ 2006 MechoShade Systems Inc.	DEALER KILCOURSE WINDOW PRODUCTS	SHEET NO. 3 OF 15

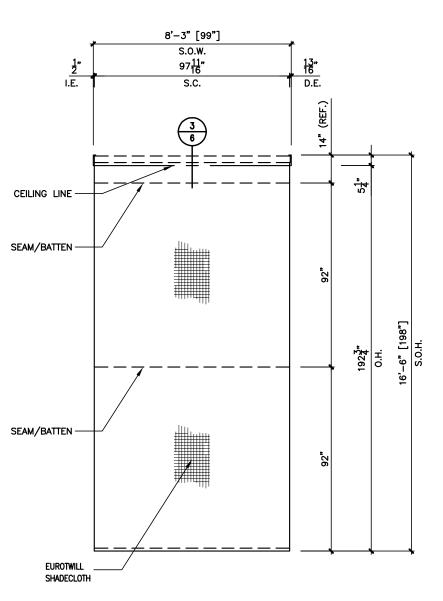
		PI	RINTS	
BW	SEP	FOR	то	DATE
4	1	APPL	DLR	04/11
4	1	APPL	DLR	07/14

## MANUAL DOUBLE SHADES





· — — — — — — —



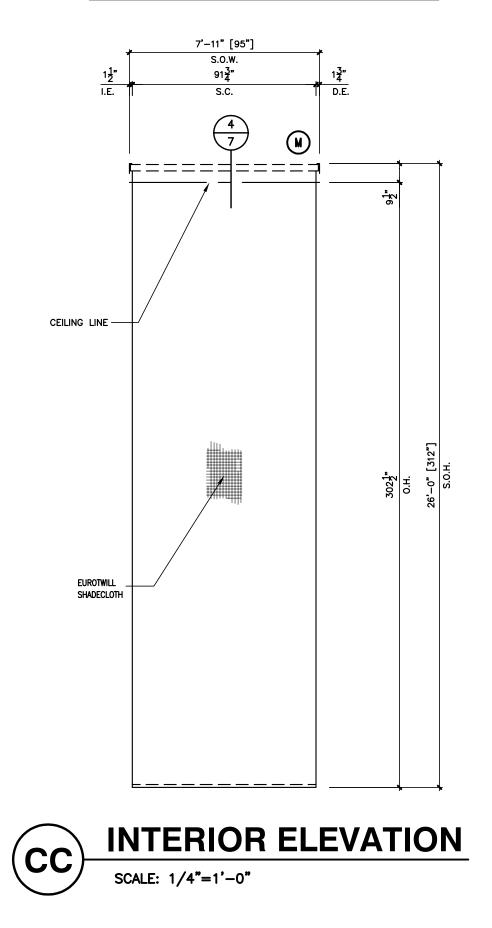
# **INTERIOR ELEVATION**

SCALE: 1/4"=1'-0" ONE MANUAL DOUBLE SHADE PER WINDOW

		KEY
C.S. D.E.	_	
D.E. I.E.	_	
<u>.</u> . 0.H.	_	
о.н. 0.0.W.		OVERALL OPENING WIDTH
0.0.w. 0.W.		OPENING WIDTH
0.w. R.U.D.		ROLL UP DIAMETER
S.C.		SHADECLOTH
S.O.H.		SHADE OPENING HEIGHT
S.O.W.	_	
V.I.F.	_	VERIFY IN FIELD
N.I.C.	_	NOT IN CONTRACT
3		
1223		ROOM NUMBER
		MANUAL SHADE

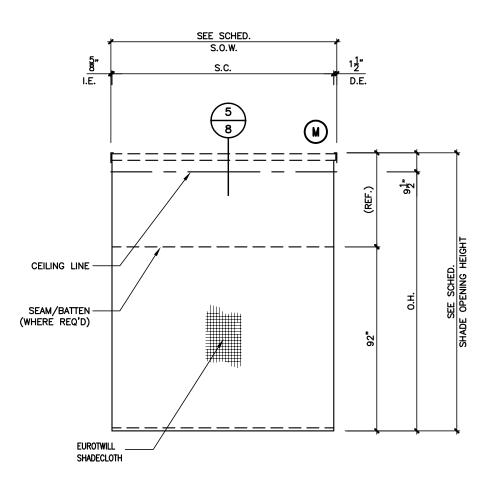
					El	ECTI	ROS	SHA	DE	SCH	IEDU	JLE	• •						
ITEM	LEVEL	ROOM	EXPOSURE	QUANTITY	SIZE (I	NCHES) S.O.H. (V.I.F.)	No. OF BANDS	E	SAND WIDT	H 3	FABRIC	VERT/ RR	TUBE DIA. (INCH)	MOTOR NO.	HEAD DETAIL	Electro Elev.	REMARKS		
1				1	81	139	1	81	-		0700		(	02-01			2 SEAMS		
2			001171	1	81	139	1	81			6000			02-02		DD	2 02/11/0		
3	Q	Note	SOUTH	1	290	139	3	86	79	125	0700	RR		02-03	-		2 BATTENS		
4	OWL	N210		1	290	139	3	86	79	125	6000	1	2.2	02-04	5	EE	1 BATTEN		
5			WEST	1	108	139	1				0700	RR		02-05		DD			
6			WEST	1	108	139	1				6000			02-06		00			
Т	OTAL SHAD	ES AT 2N	D LEVEL	6		_													
7			SOUTH	1	209	163	3	66	66	77	0700	RR		04-01					
8			000111	1	209	163	3	66	66	77	6000		2.2	04-02	5	EE			
9	~		WEST	1	292	163	3	84	96	112	0700	RR	2.2	04-03	0		2 BATTENS		
10	OUR	N410		1	292	163	3	84	96	112	6000			04-04			1 BATTEN		
11	5 E		NORTH	1	66	192	1	66			0700		2.2	04-05	6				
12				1	66	192	1	66			6000	RR		04-06		DD			
13			WEST	1	88	163	1	88			0700		2.2	04-07	5				
14				1	88	163	1	88			6000			04-08	-				
	OTAL SHAD			8															
15		BREAK	EAST	1	95	312	1	95			6000	RR	3.5	05-01	4	CC			
16			SOUTH	1	209	163	3	66	66	77	0700			05-02		,	2 SEAMS		
17				1	209	163	3	66	66	77	6000	RR	2.2	05-03	5	EE -			
18	ų			WEST	1	292	163	3	84	96	112	0700			05-04			2 BATTENS	
19	FIVE	N510		1	292	163	3	84	96	112	6000			05-05			1 BATTEN		
20			NORTH	1	66	192	1	66			0700		2.2	05-06	6				
21							66	192	1	66			6000	RR		05-07		DD	
22 23			WEST	1	88	163 163	1	88			0700		2.2	05-08	5				
	OTAL SHAD	EC AT ST		9	88	103	I	88			6000			05-09					
	STAL SHAD	ES AT ST		9	234	163	3	78	60	96	0700			06-01			2 BATTENS		
24 25				1	234	163	3	78	60	96	6000	-		06-01			2 DATIENS		
25			SOUTH	1	234	163	3	94	66	78	0700	RR		06-02					
20				1	238	163	3	94	66	78	6000		2.2	06-04	5	EE			
28	~			1	295	163	3	84	96	115	0700			06-05			2 BATTENS		
29	SIX	N610	WEST	1	295	163	3	84	96	115	6000	RR		06-06			1 BATTEN		
30				1	66	192	1	66	~~~	110	0700			06-07			IBATIEN		
30				1	66	192	1	66			6000		2.2	06-08	6	DD			
30			NORTH	1	130	163	2	54	76		0700	RR		06-09					
31				. 1	130	163	2	54	76		6000	1	2.2	06-10	5	EE			
	OTAL SHAD	ES AT 5T	H LEVEL	10			-	2.											
	GRAND T			33															

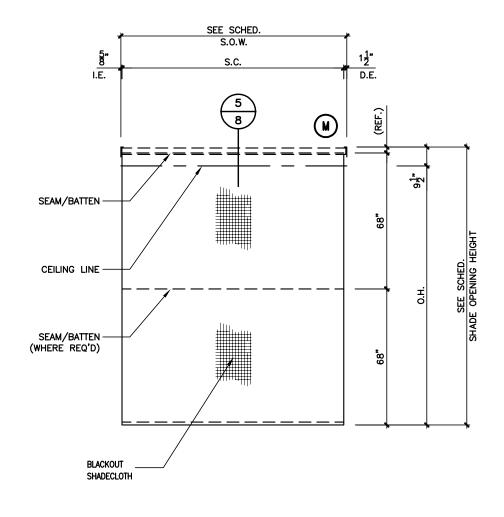
**MOTORIZED SHADES** 



<u>NOTES:</u> SEE SHEET#1

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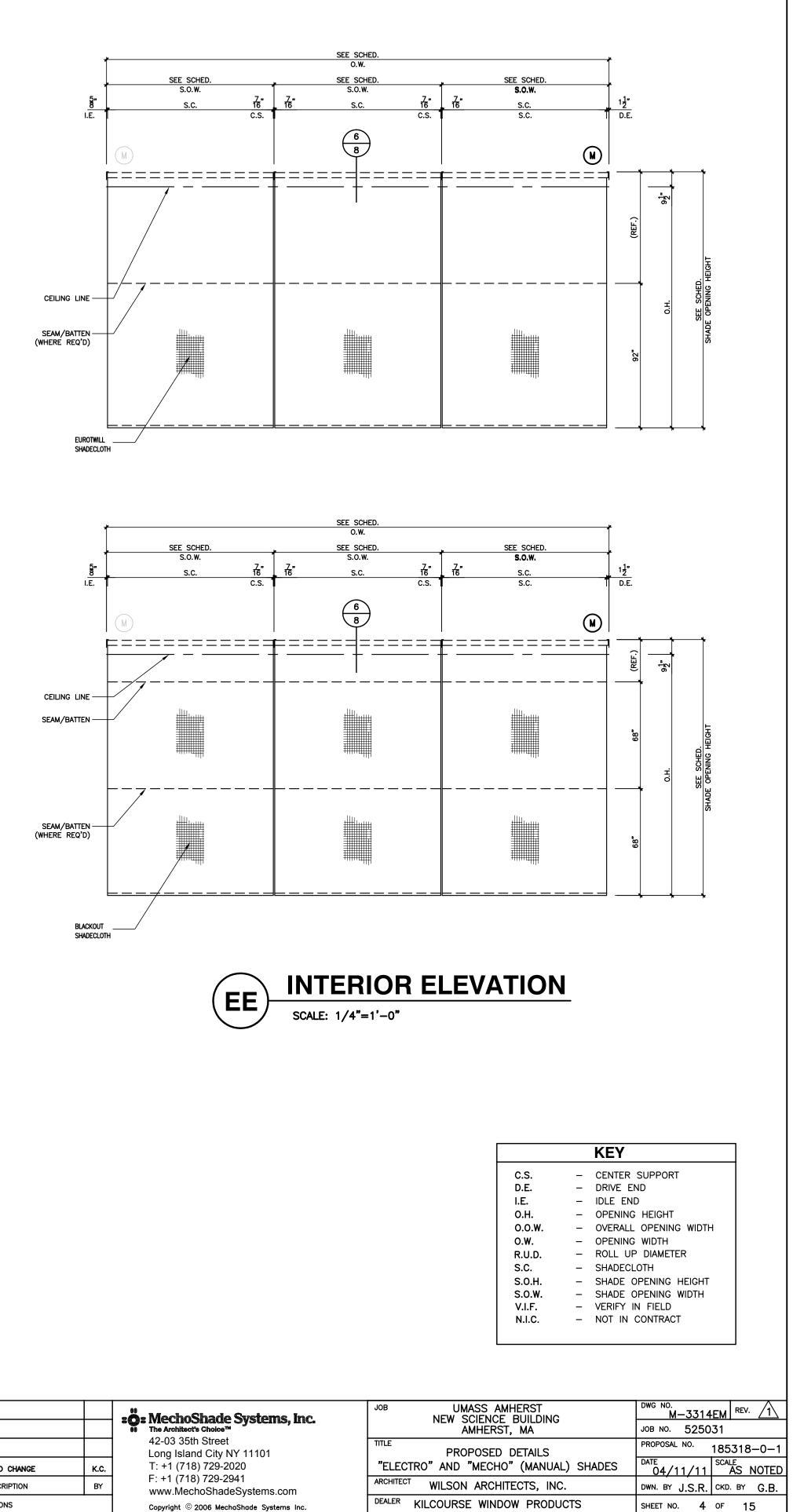


SHOP DRAWING DIMENSIONS	4		
DETAILS: HARDWARE SIZES ± 1/32" (0.79mm) ROLL DIAMETER SIZES ± 1/8" (3,18mm)	3		
SHADE BANDS: EDGE CLEARANCE ± 3/16" (4.76mm)	2		
RollerShade width and height dimensions (W x HT) are approximate, subject to final field dimensions to be scheduled by the Dealer/Contractor and provided to MechoShade Systems for fabrication in accordance with Contract Documents.	$\boxed{1}$	07/14/11	NO
Shop drawings are for typical details and shade locations only. Final sizes are not included. All blocking and supports are shown for reference only. Blocking design is not included in this Shop Drawing.	NO.	DATE	DESCR
Blocking is Not In Contract. FILE NAME: I:\Shop DWGs Current\M-3314EM - UMass Amherst - New Science Building\Rev. 1\Schedule-Elevations.d	wg		REVISIO

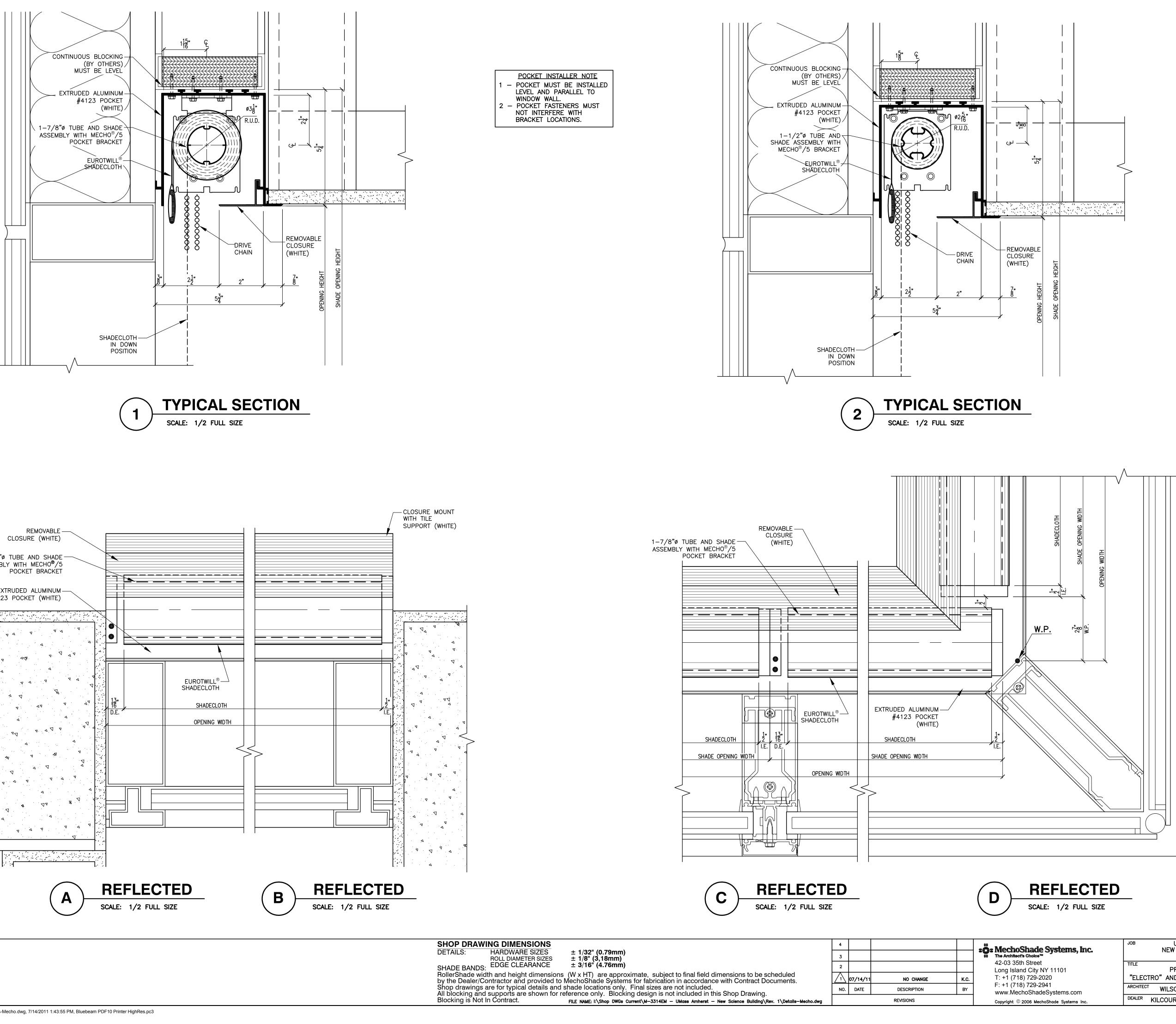
PRINTS								
BW	SEP	FOR	то	DATE				
4	1	APPL	DLR	04/11				
4	1	APPL	DLR	07/14				

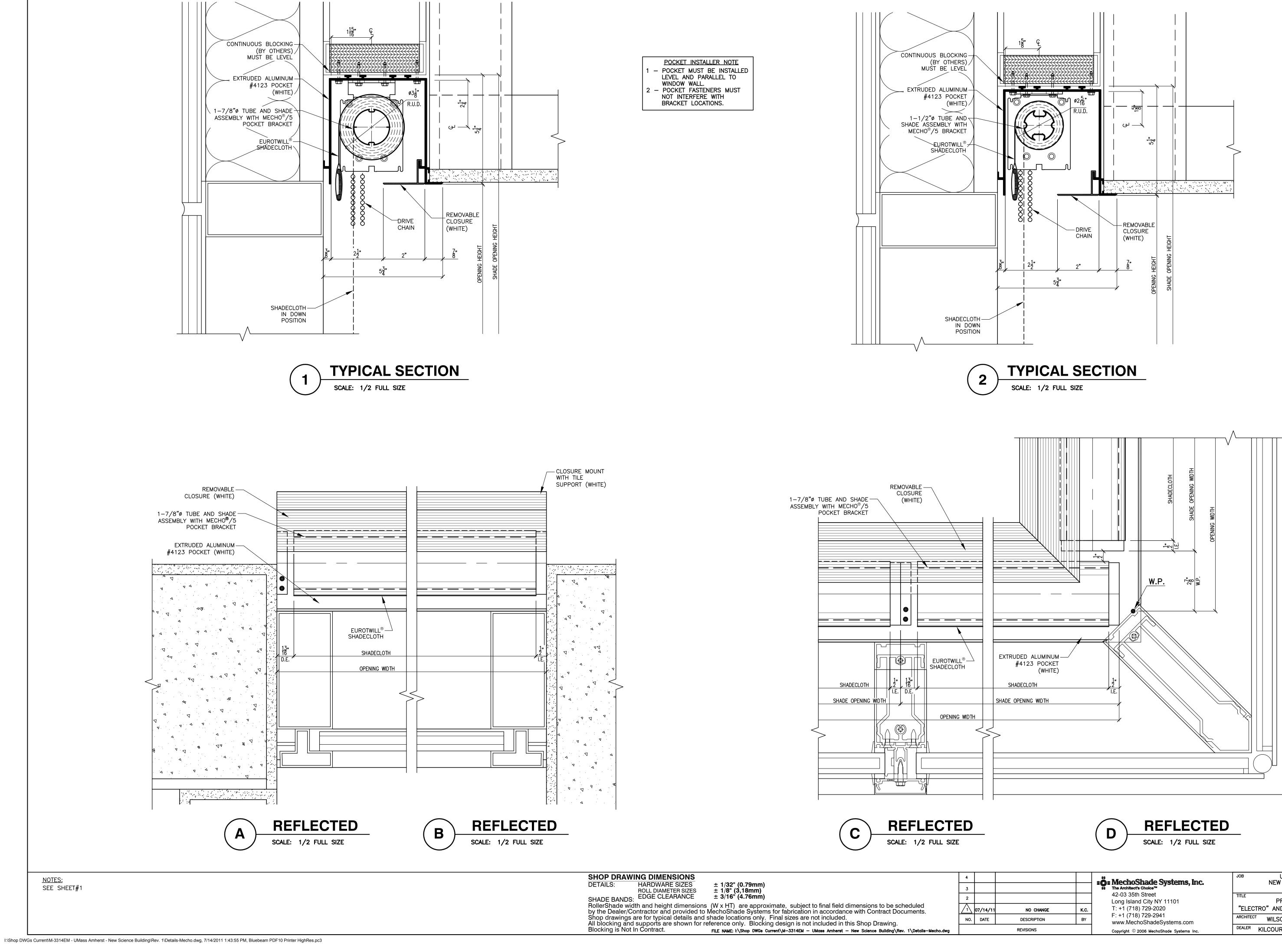
SHEET NO. 4 OF 15

DOUBLE MOTORIZED SHADES



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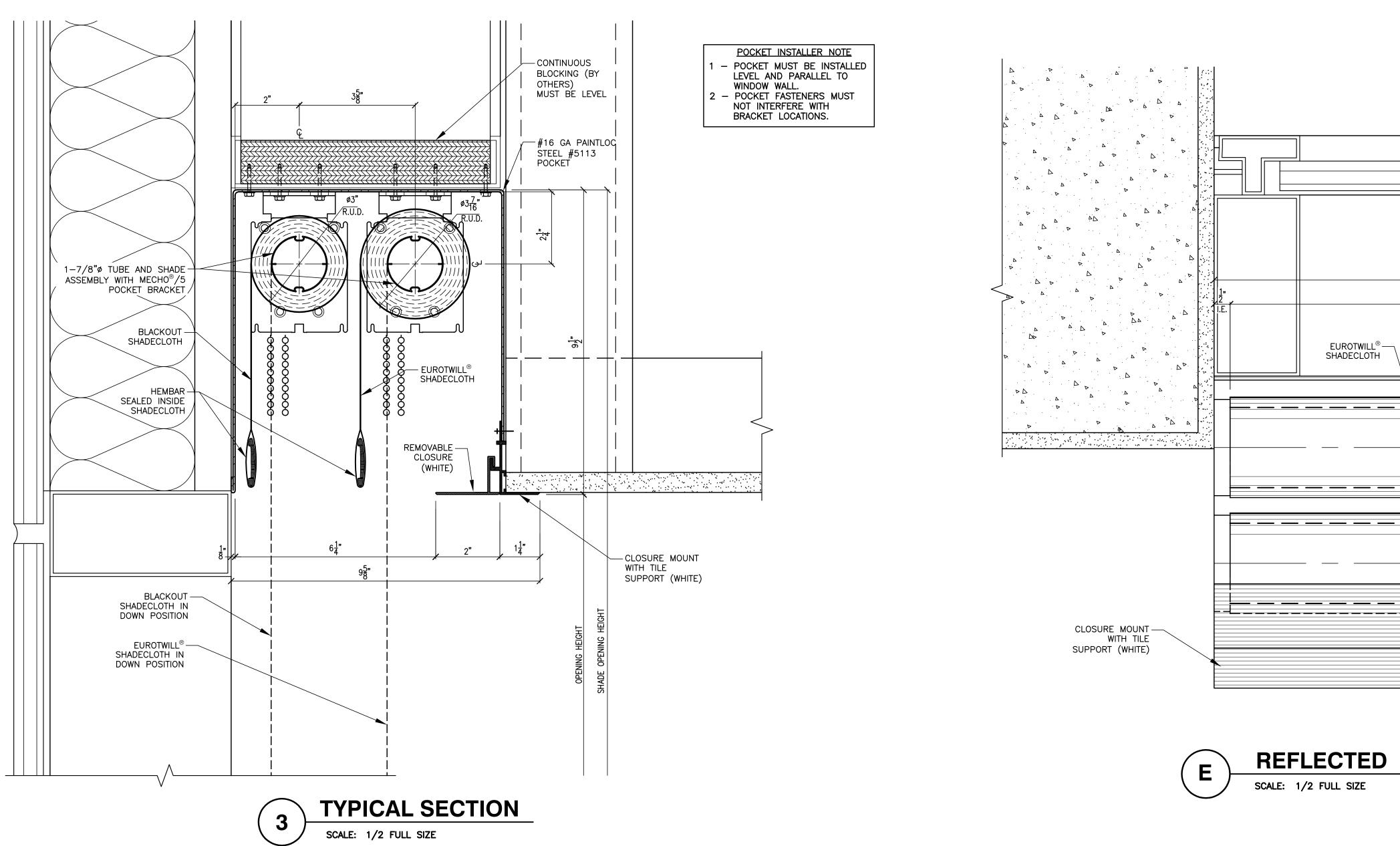


<u>NOTES:</u>

SEE SHEET#1

Beneroline Systems     The Architect's Choice™	IC. JOB UMASS AMHERST NEW SCIENCE BUILDING AMHERST, MA	DWG NO. <u>M-3314EM</u> REV. <u>1</u> JOB NO. 525031			
42-03 35th Street Long Island City NY 11101	TITLE PROPOSED DETAILS	PROPOSAL NO. 185318-0-1			
снаяде к.с. Т: +1 (718) 729-2020	"ELECTRO" AND "MECHO" (MANUAL) SHADES	DATE 04/11/11 AS NOTED			
F: +1 (718) 729-2941 www.MechoShadeSystems.com	ARCHITECT WILSON ARCHITECTS, INC.	DWN. BY J.S.R. CKD. BY G.B.			
S Copyright © 2006 MechoShade Systems	. DEALER KILCOURSE WINDOW PRODUCTS	SHEET NO. 5 OF 15			

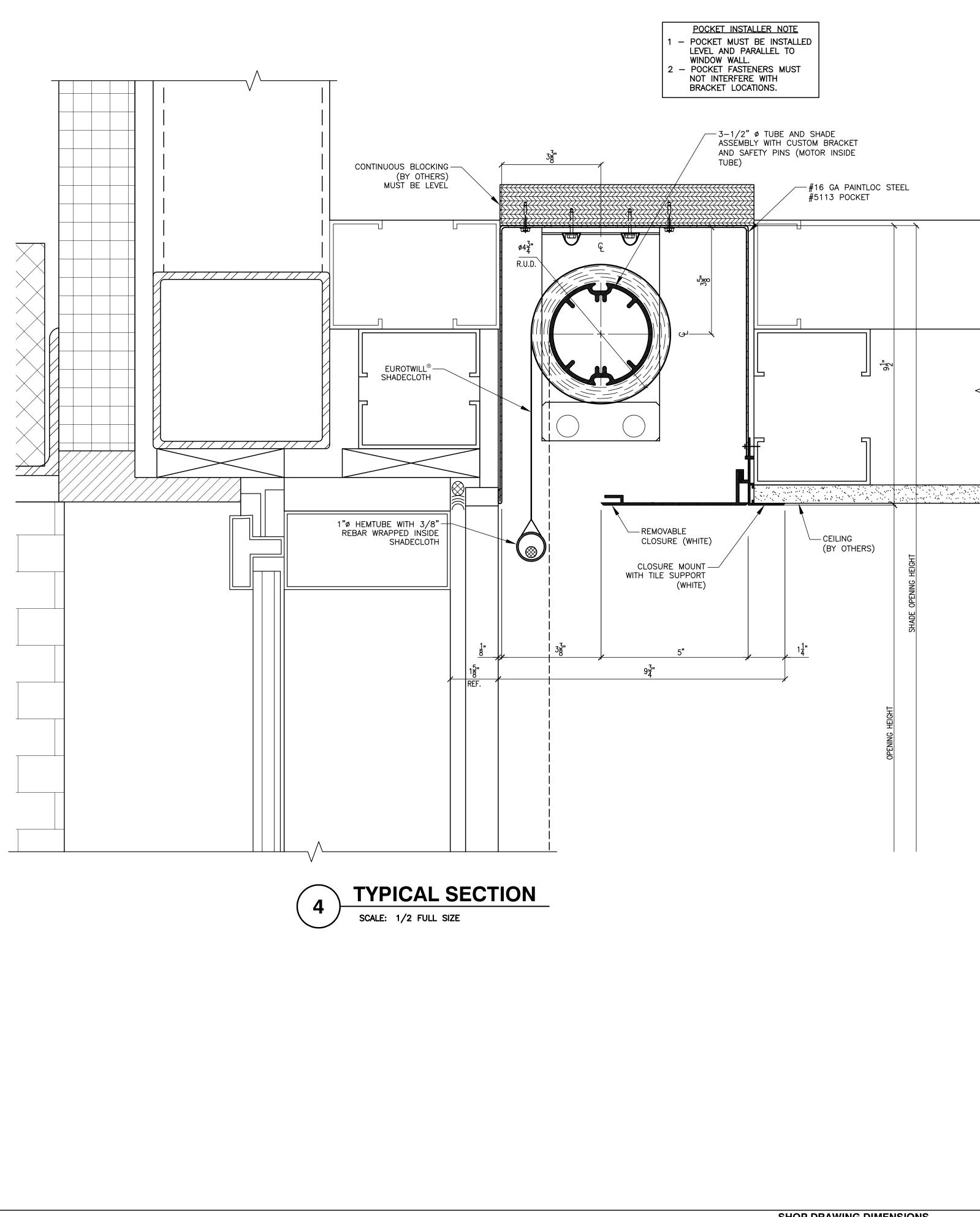
		PI	RINTS	
8W	SEP	FOR	то	DATE
4	1	APPL	DLR	04/11
4	1	APPL	DLR	07/14
	4	4 1	BW SEP FOR 4 1 APPL	4 1 APPL DLR



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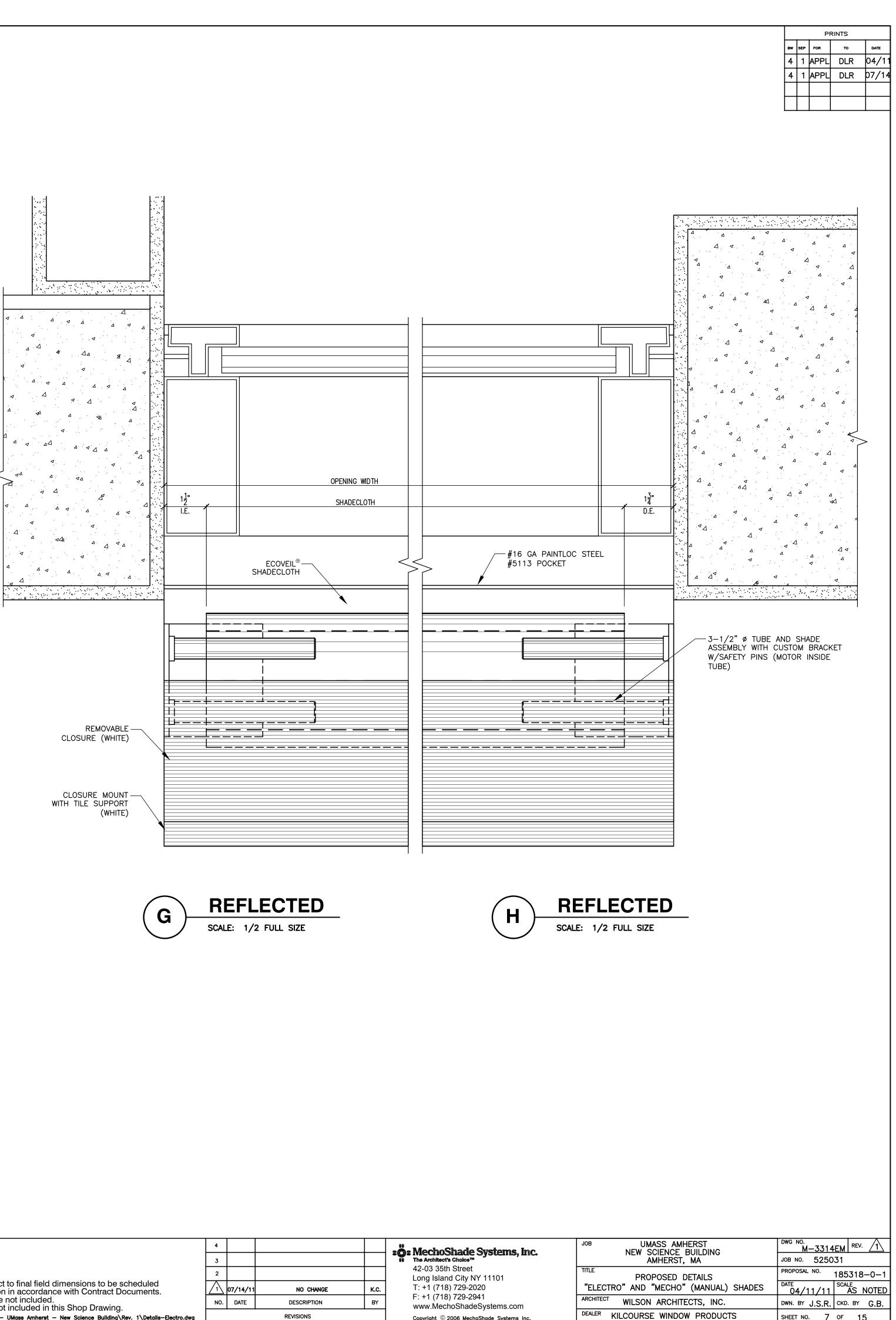
SHOP DRAWING DIMENSIONS	4		
DETAILS: HARDWARE SIZES ± 1/32" (0.79mm)	3		
ROLL DIAMETER SIZES $\pm 1/8"$ (3,18mm)			
SHADE BANDS: EDGE CLEARANCE ± 3/16" (4.76mm)	2		
RollerShade width and height dimensions (W x HT) are approximate, subject to final field dimensions to be scheduled by the Dealer/Contractor and provided to MechoShade Systems for fabrication in accordance with Contract Documents.	1	07/14/11	NO (
Shop drawings are for typical details and shade locations only. Final sizes are not included. All blocking and supports are shown for reference only. Blocking design is not included in this Shop Drawing.	NO	. DATE	DESCRIF
Blocking is Not In Contract. FILE NAME: I:\Shop DWGs Current\M-3314EM - UMass Amherst - New Science Building\Rev. 1\Details-Mecho.dwg			REVISIONS

	OPENING WIDTH		PRINTS         ##       1       APPL       DLR       04/11         4       1       APPL       DLR       07/14         -       -       -       -       -         -       -       -       -       -         -       -       -       -       -         -       -       -       -       -         -       -       -       -       -         -       -       -       -       -         -       -       -       -       -         -       -       -       -       -         -       -       -       -       -         -       -       -       -       -         -       -       -       -       -         -       -       -       -       -         -       -       -       -       -       -         -       -       -       -       -       -         -       -       -       -       -       -         -       -       -       -       -       -         - <t< th=""></t<>
		#16 GA PAINTLOC STEEL #16 GA PAINTLOC STEEL #5113 POCKET	
	REFLECT         SCALE:       1/2         FUNCTION       1/2		
CHANGE K.C. RIPTION BY NS	Sector       MechoShade Systems, Inc.         The Architect's Choice™         42-03 35th Street         Long Island City NY 11101         T: +1 (718) 729-2020         F: +1 (718) 729-2941         www.MechoShadeSystems.com         Copyright © 2006 MechoShade Systems Inc.	AMHERST, MA TITLE PROPOSED DETAILS "ELECTRO" AND "MECHO" (MANUAL) SHADES ARCHITECT WILSON ARCHITECTS, INC.	DWG NO.       M-3314EM       REV.       1         JOB NO.       525031       1         PROPOSAL NO.       185318-0-1         DATE       04/11/11       SCALE         O4/11/11       SCALE       AS         DWN. BY       J.S.R.       CKD. BY       G.B.         SHEET NO.       6       OF       15



<u>NOTES:</u> SEE SHEET#1

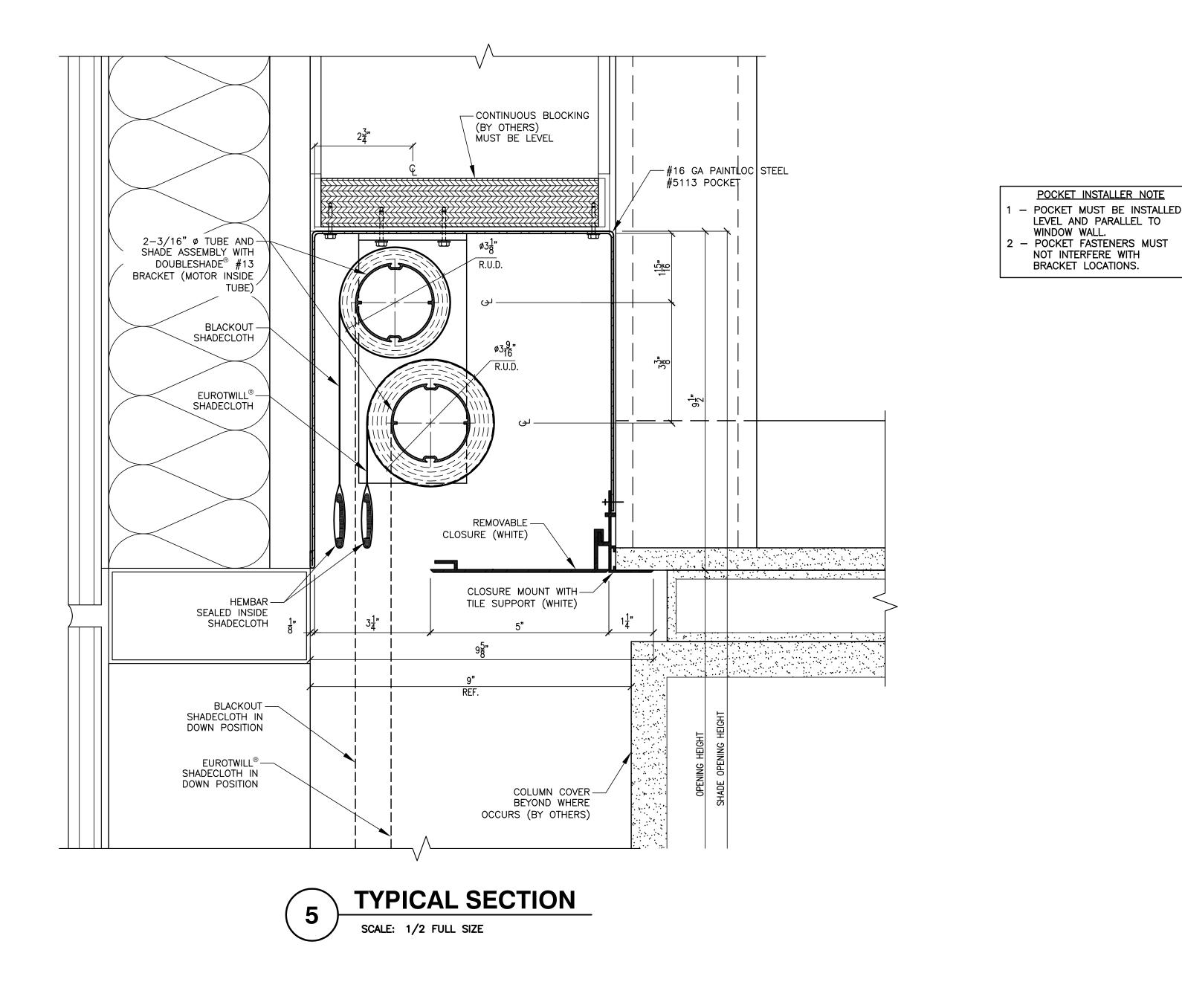
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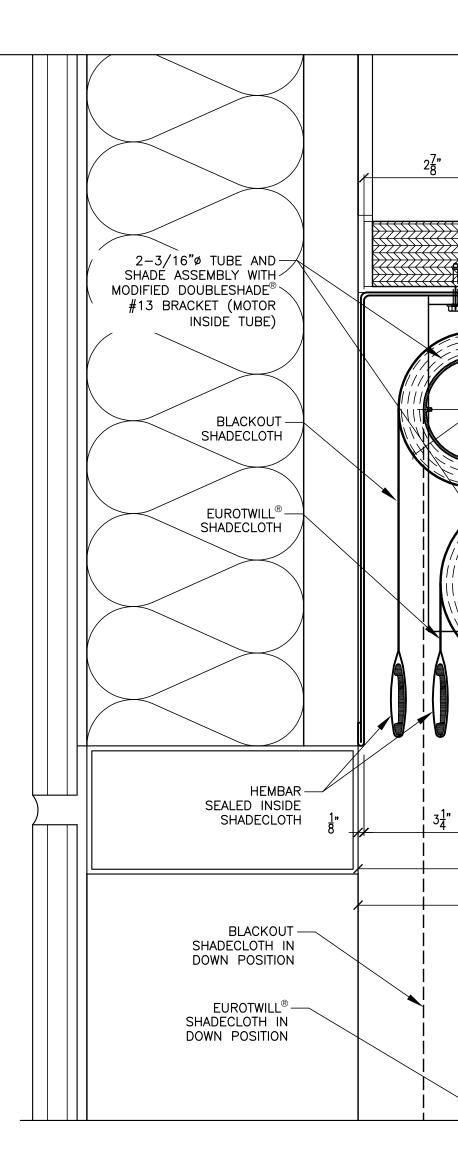
Copyright © 2006 MechoShade Systems Inc.

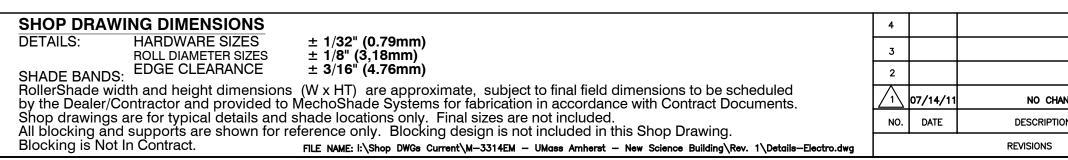
SHEET NO. 7 OF 15

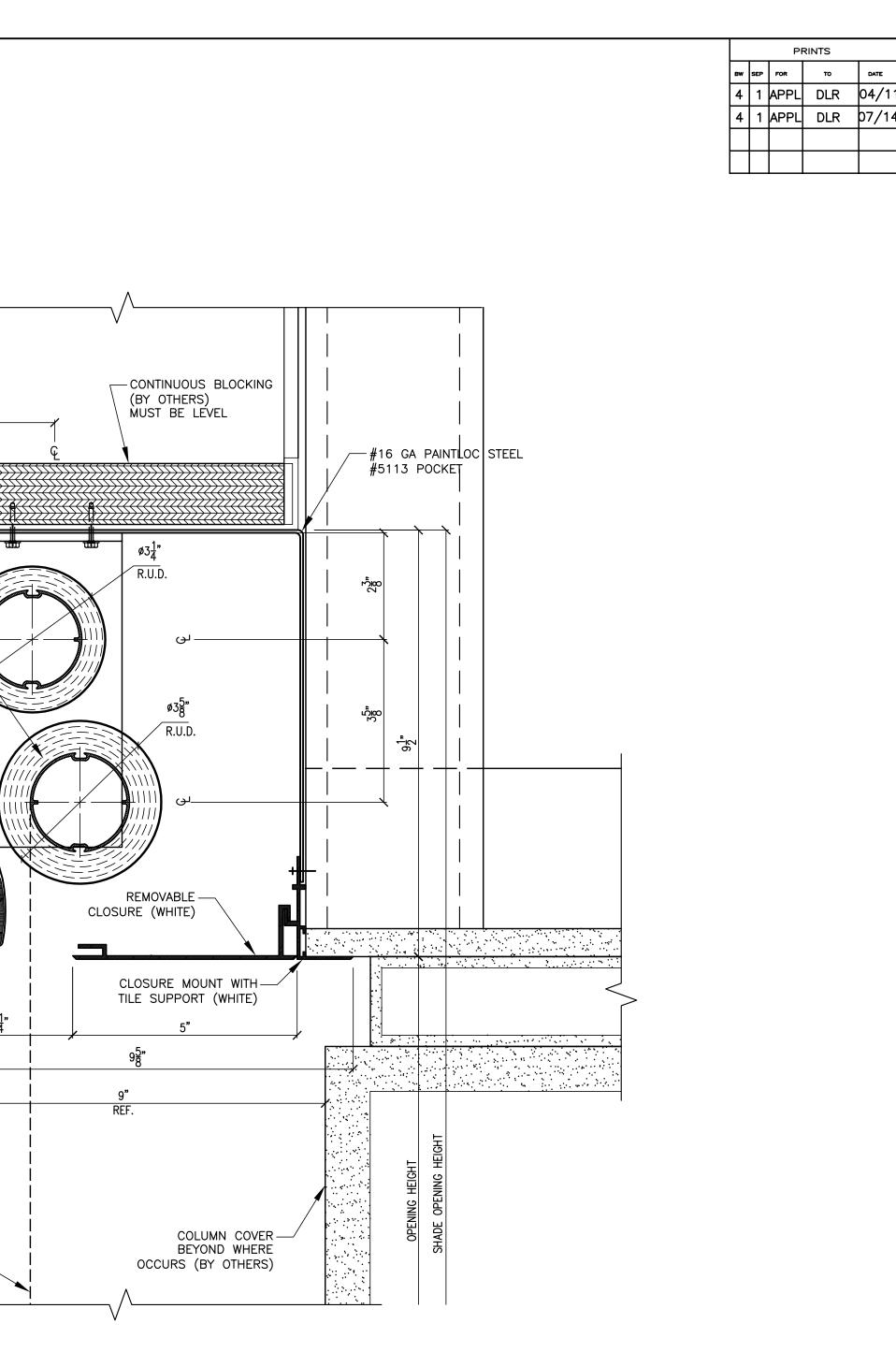
SHOP DRAWING DIMENSIONS ± 1/32" (0.79mm) ± 1/8" (3,18mm) HARDWARE SIZES DETAILS: ROLL DIAMETER SIZES SHADE BANDS: EDGE CLEARANCE  $\pm 3/16"$  (4.76mm) RollerShade width and height dimensions (W x HT) are approximate, subject to final field dimensions to be scheduled by the Dealer/Contractor and provided to MechoShade Systems for fabrication in accordance with Contract Documents. Shop drawings are for typical details and shade locations only. Final sizes are not included. All blocking and supports are shown for reference only. Blocking design is not included in this Shop Drawing. Blocking is Not In Contract. REVISIONS FILE NAME: I:\Shop DWGs Current\M-3314EM - UMass Amherst - New Science Building\Rev. 1\Details-Electro.dwg



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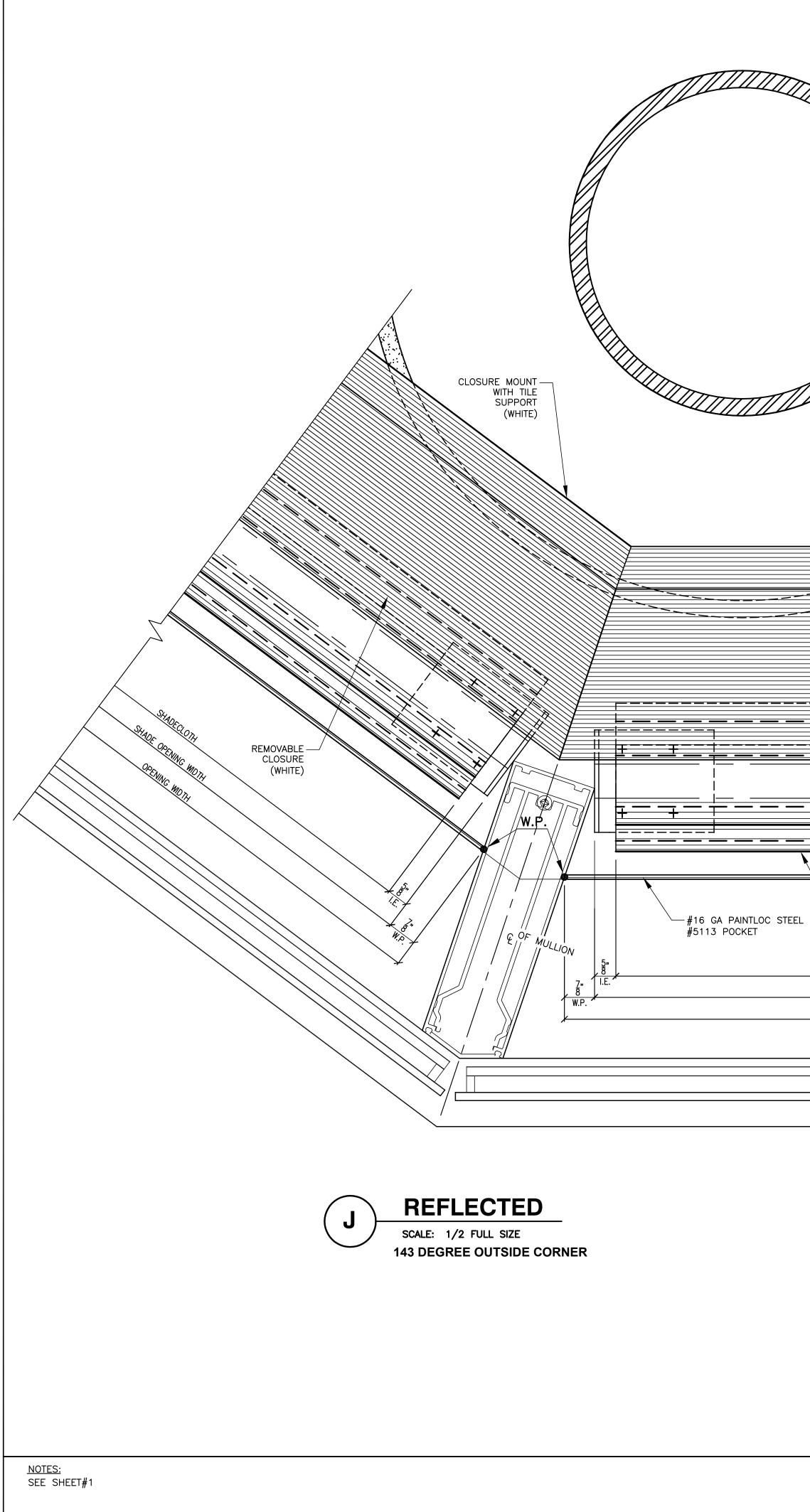




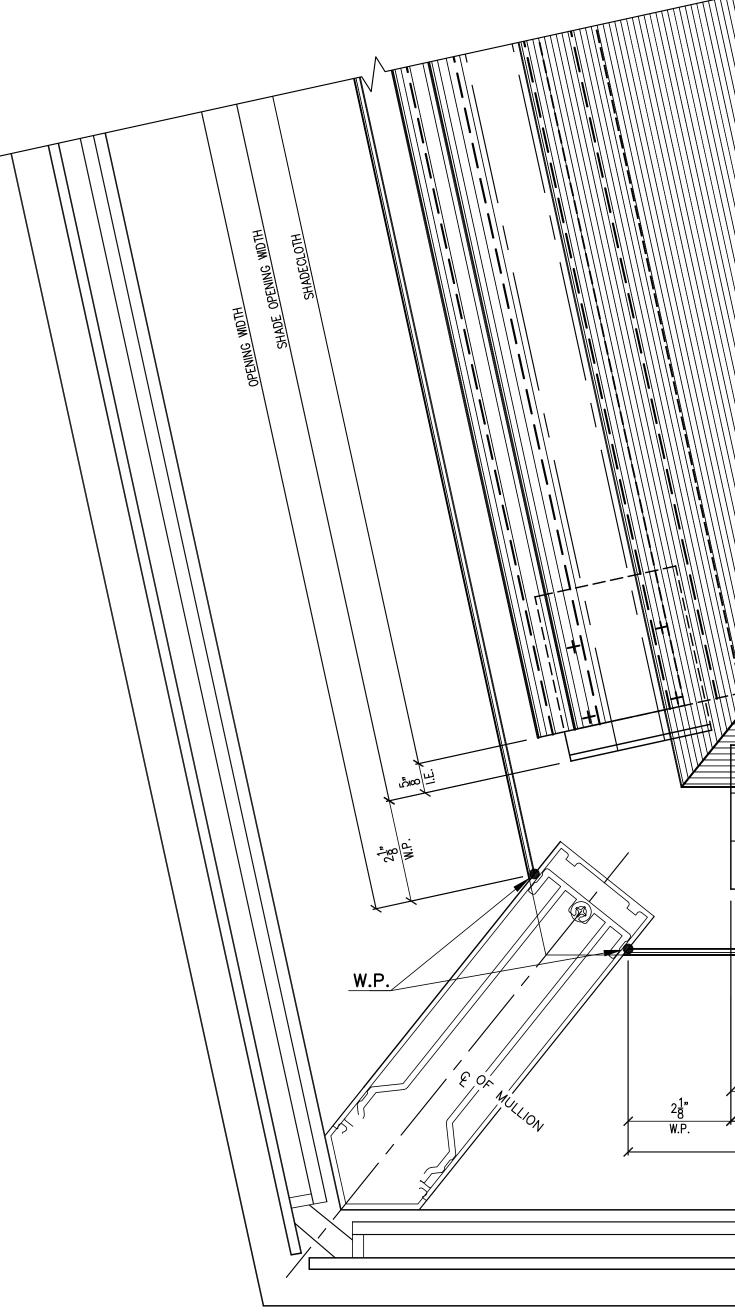
# SCALE: 1/2 FULL SIZE

6

		: MechoShade Systems, Inc.	JOB UMASS AMHERST NEW SCIENCE BUILDING AMHERST, MA	DWG NO. M-3314EM REV. 1 JOB NO. 525031		
		42-03 35th Street Long Island City NY 11101	TITLE PROPOSED DETAILS	PROPOSAL NO. 185318-0-1		
CHANGE	к.с.	T: +1 (718) 729-2020	"ELECTRO" AND "MECHO" (MANUAL) SHADES	DATE 04/11/11 AS NOTED		
RIPTION	BY		ARCHITECT WILSON ARCHITECTS, INC.	DWN. BY J.S.R. CKD. BY G.B.		
ONS		Copyright © 2006 MechoShade Systems Inc.	DEALER KILCOURSE WINDOW PRODUCTS	SHEET NO. 8 OF 15		



<u> </u>	
BLACKOUT EUROTWILL® SHADECLOTH SHADECLOTH	>
SHADECLOTH	
SHADE OPENING WIDTH	
OPENING WIDTH	





 SHOP DRAWING DIMENSIONS
 + 1/32" (0.79mm)

 DETAILS:
 HARDWARE SIZES
 ± 1/32" (0.79mm)

 ROLL DIAMETER SIZES
 ± 1/8" (3,18mm)

 SHADE BANDS:
 EDGE CLEARANCE
 ± 3/16" (4.76mm)

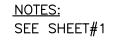
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 2

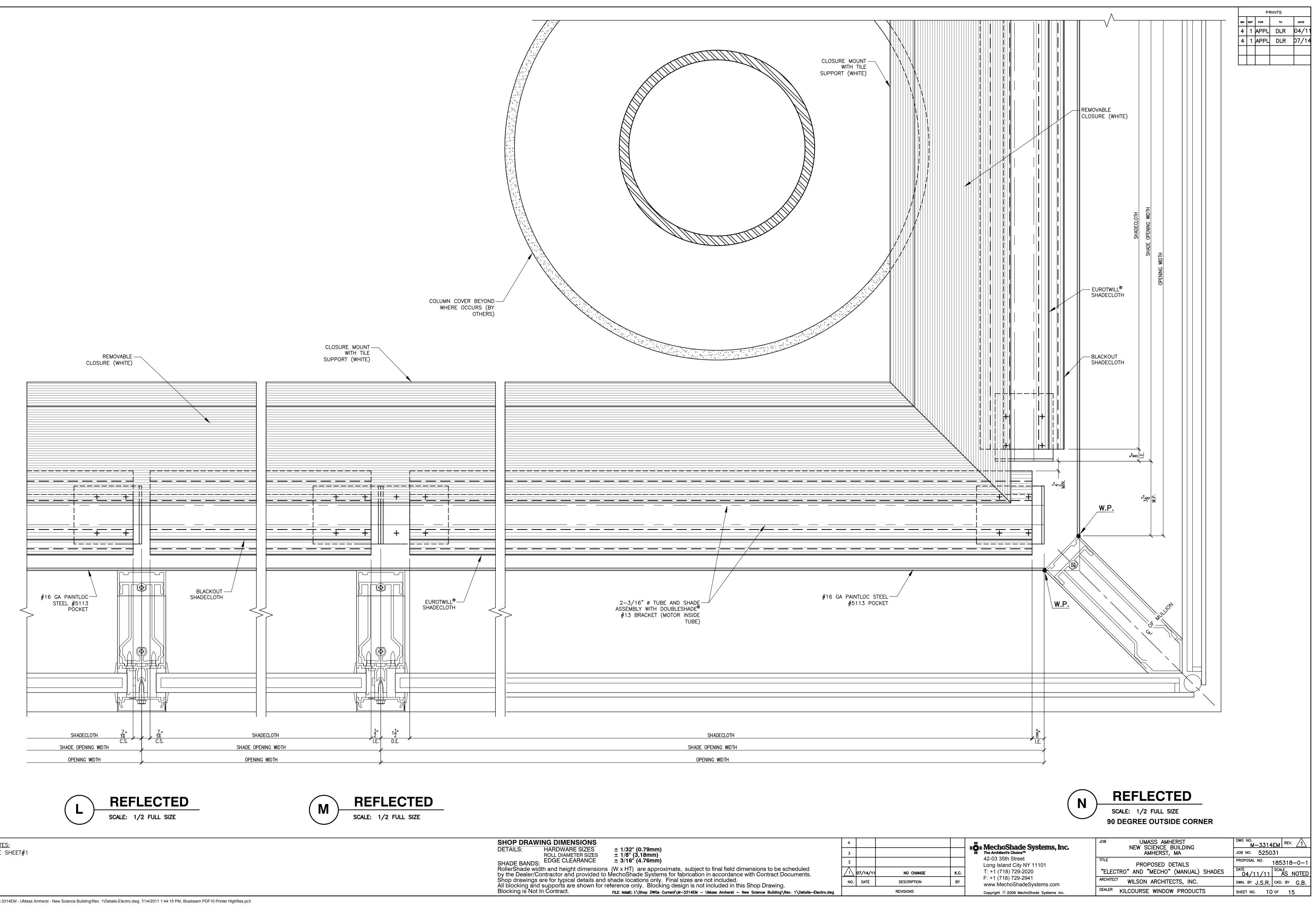
 Shop drawings are for typical details and shade locations only. Final sizes are not included.
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 No c

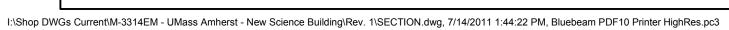
 All blocking and supports are shown for reference only. Blocking design is not included in this Shop Drawing.
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 REVISIONS

		PRINTS BW SEP FOR TO DATE 4 1 APPL DLR 04/11 4 1 APPL DLR 07/14 1 1 DLR 07/14
REMOVABLE CLOSURE (WHITE)		
CONTINUOUS BLOCKING (BY OTHERS) MUST BE LEVEL	SURE MOUNT LE SUPPORT (WHITE)	
#16 GA PAINTLOC STEEL BI #5113 POCKET SI 1.E.	ELACKOUT EUROTWILL® HADECLOTH SHADECLOTH SHADECLOTH SHADE OPENING WIDTH	
OF	PENING WIDTH	
•••••••••••••••••••••••••••••••••••••	J <sup>OB</sup> UMASS AMHERST NEW SCIENCE BUILDING AMHERST, MA	DWG NO. M-3314EM REV. 1
Image: Principal state         Image: Priniter         Image: Principal state	AMHERST, MA TITLE PROPOSED DETAILS "ELECTRO" AND "MECHO" (MANUAL) SHADES ARCHITECT WILSON ARCHITECTS, INC. DEALER KILCOURSE WINDOW PRODUCTS	JOB NO. 525031 PROPOSAL NO. 185318-0-1 DATE 04/11/11 AS NOTED DWN. BY J.S.R. CKD. BY G.B. SHEET NO. 9 OF 15



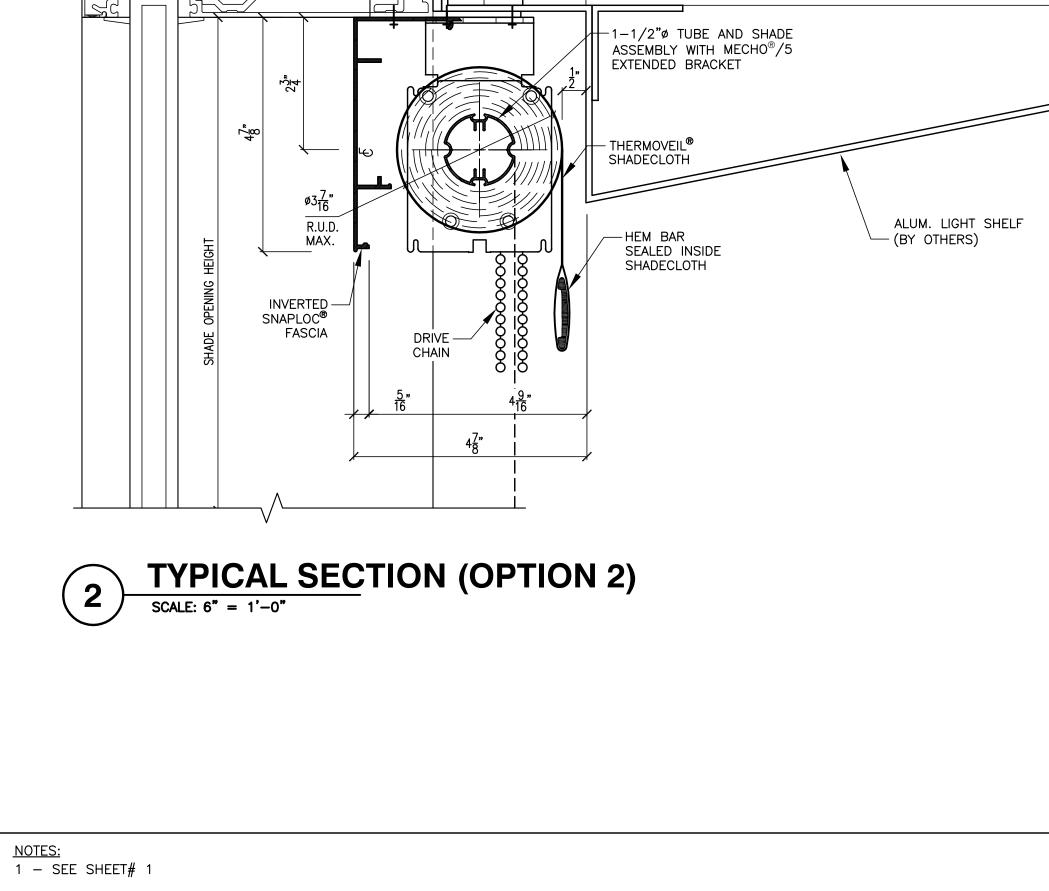






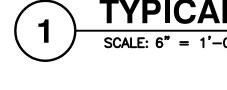
75'

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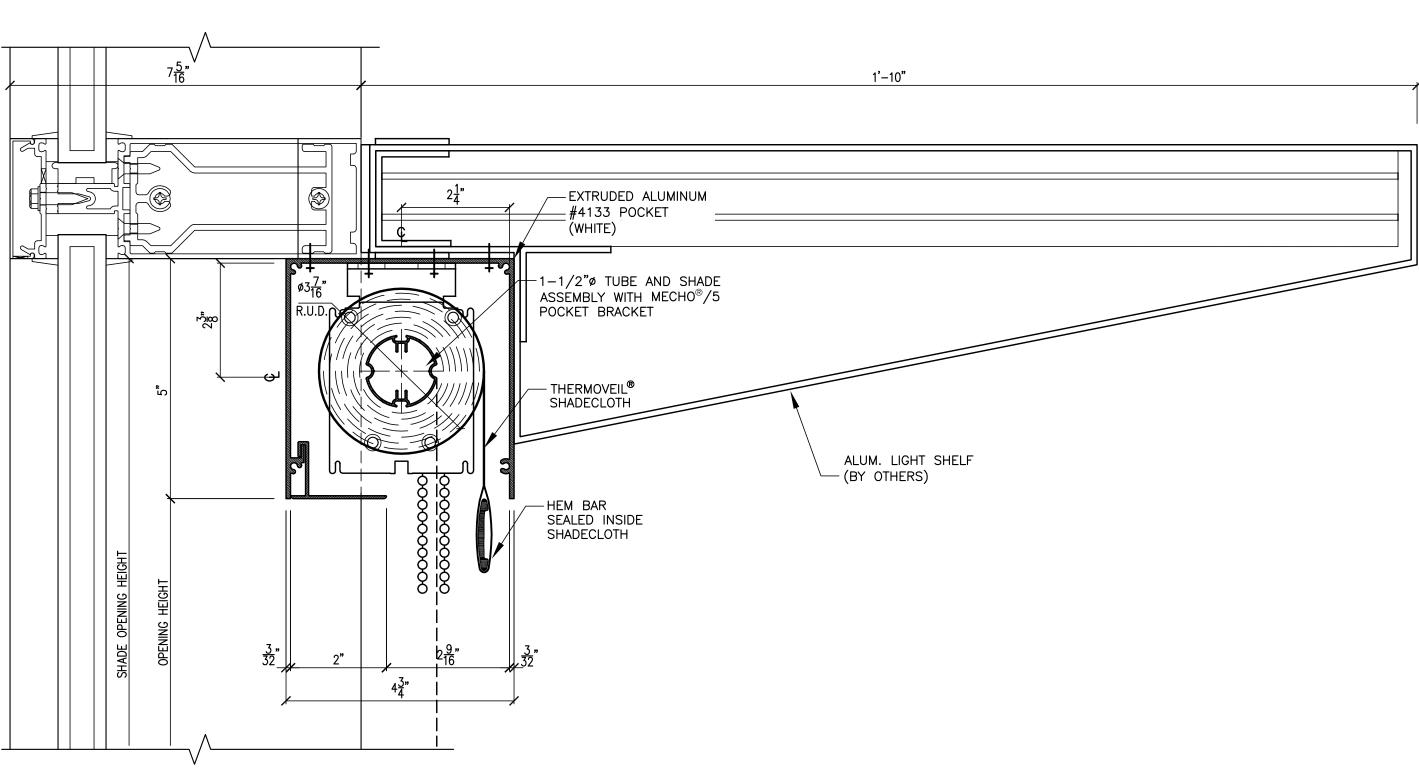


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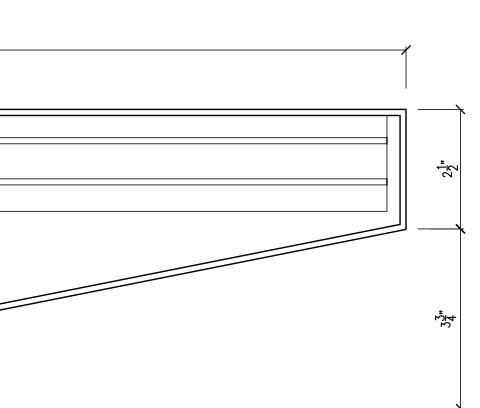
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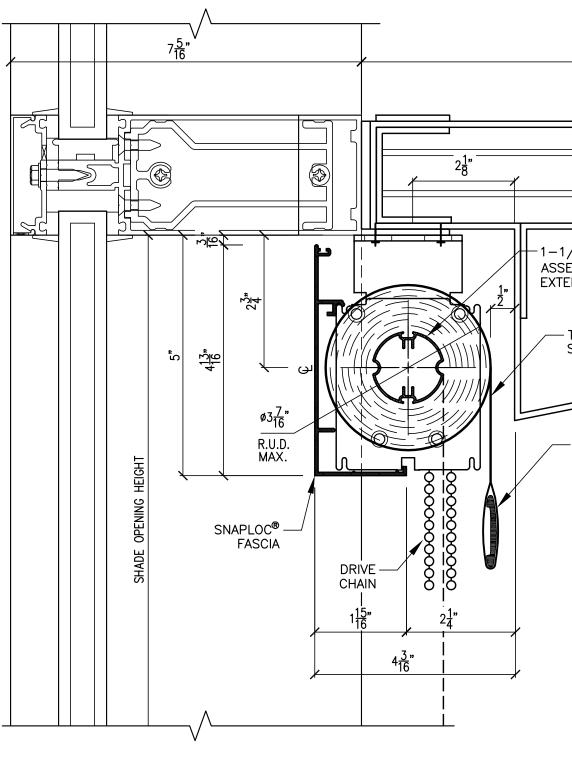


1'–10"



**TYPICAL SECTION (OPTION 1)** SCALE: 6" = 1'-0"



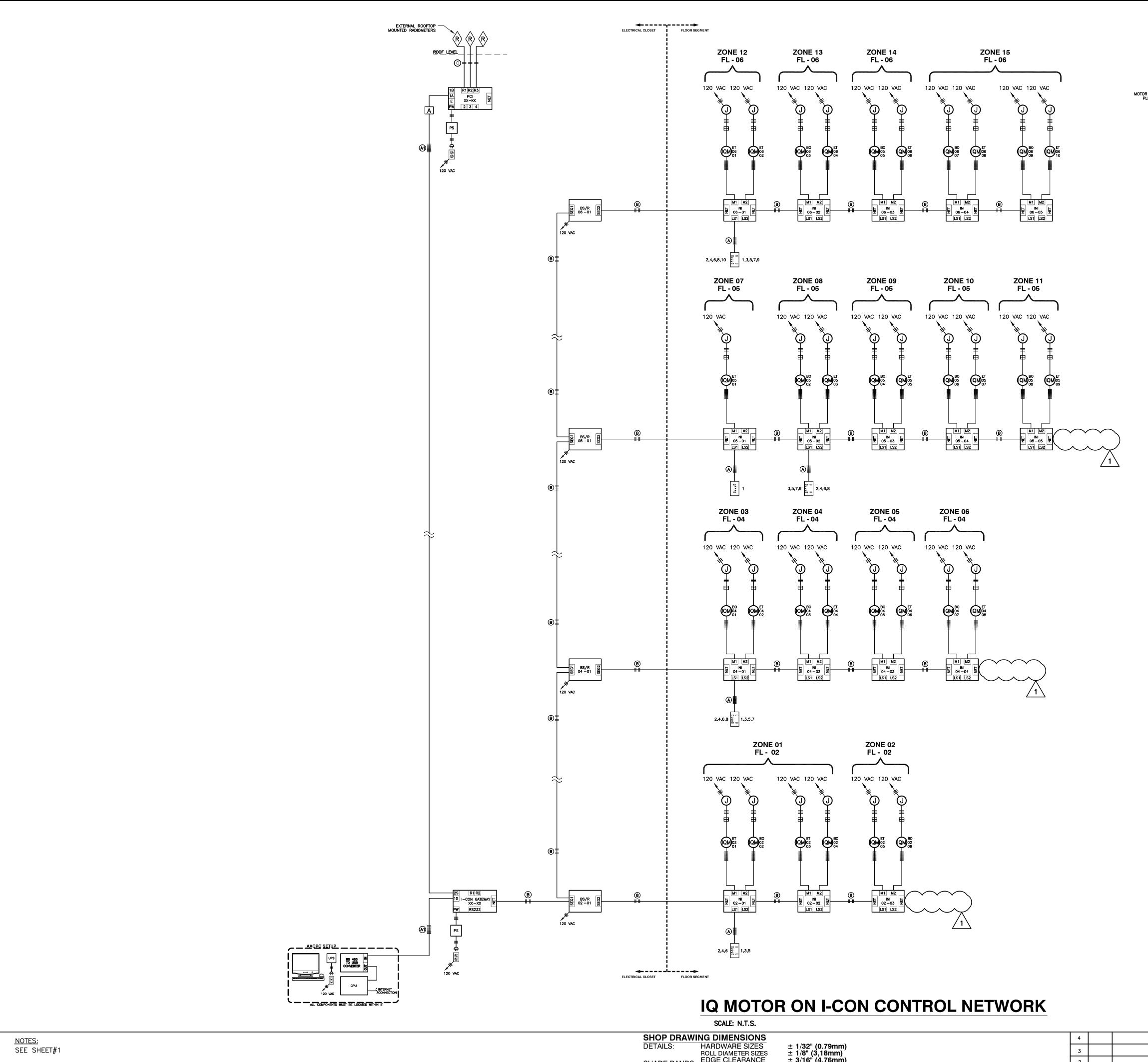




# **OPTIONAL SECTIONS AT LIGHT SHELF**

SHOP DRAWI	NG DIMENSIONS		4	
DETAILS:	HARDWARE SIZES	± 1/32" (0.79mm)	3	
	ROLL DIAMETER SIZES	± 1/8" (3,18mm) ± 3/16" (4.76mm)	-	
SHADE BANDS:	EDGE CLEARANCE		2	
RollerShade widt	th and height dimensions	(W x HT) are approximate, subject to final field dimensions to be scheduled	$\Lambda$	07/14/
		echoShade Systems for fabrication in accordance with Contract Documents.		077 147
		hade locations only. Final sizes are not included.	NO.	DATE
		erence only. Blocking design is not included in this Shop Drawing.		L
Blocking is Not I	n Contract.	FILE NAME: I:\Shop DWGs Current\M—3314EM — UMass Amherst — New Science Building\Rev. 1\SECTION.dwg		

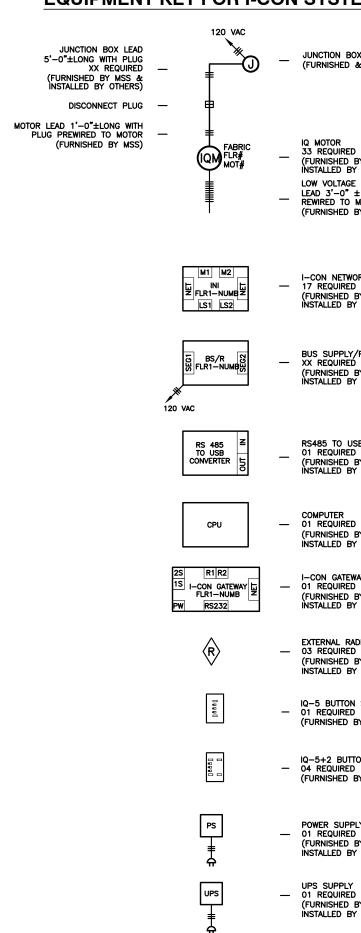
			PRINTS         BW       SEP       FOR       TO       DATE         4       1       APPL       DLR       07/01         4       1       APPL       DLR       07/14         I       I       I       I       I         I       I       I       I       I         I       I       I       I       I         I       I       I       I       I       I         I       I       I       I       I       I         I       I       I       I       I       I         I       I       I       I       I       I       I         I       I       I       I       I       I       I       I         I       I       I       I       I       I       I       I       I         I       I       I       I       I       I       I       I       I         I       I       I       I       I       I       I       I       I       I         I       I       I       I       I       I       I       I <t< th=""></t<>
1-1/2"¢ TUBE AND ASSEMBLY WITH MEC EXTENDED BRACKET THERMOVEIL® SHADECLOTH	1'-10"		
N 3)	ALUM. LIGHT SHELF (BY OTHERS)	JOB UMASS AMHERST NEW SCIENCE BUILDING AMHERST, MA TITLE PROPOSED DETAILS "ELECTRO" AND "MECHO" (MANUAL) SHADES	DWG NO.         M-3314EM         REV.         1           JOB NO.         525031         PROPOSAL NO.         185318-0-1           DATE         04/11/11         SCALE         AS NOTED



SHADE BANDS: EDGE CLEARANCE ± 3/16" (4.76mm)		2	
RollerShade width and height dimensions (W x HT) are approximate, subject to final field dimensions to be scheduled by the Dealer/Contractor and provided to MechoShade Systems for fabrication in accordance with Contract Documents.	Z	$\overline{\gamma}$	07/14
Shop drawings are for typical details and shade locations only. Final sizes are not included. All blocking and supports are shown for reference only. Blocking design is not included in this Shop Drawing.		NO.	DAT
Blocking is Not In Contract. FILE NAME: I:\Shop DWGs Current\M-3314EM - UMass Amherst - New Science Building\Rev. 1\12 Wiring Schem	atics-lcor	n-NI.(	dwg

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### EQUIPMENT KEY FOR I-CON SYSTEM



120 VAC

				PF	RINTS	
		BW	SEP	FOR	то	DATE
CON	SYSTEM	4		APPL	DLR	NONE
		4		APPL		07/14
		т —	•			
_	JUNCTION BOX (FURNISHED & INSTALLED BY OTHERS)	_				
_	IQ MOTOR 33 REQUIRED (FURNISHED BY MSS &					
	INSTALLED BY OTHERS)					
_	LEAD 3'-0" ± LONG REWIRED TO MOTOR					
	(FURNISHED BY MSS)					
—	I-CON NETWORK INTERFACE 17 REQUIRED (FURNISHED BY MSS &					
	(FURNISHED BY MSS & INSTALLED BY OTHERS)					
_	BUS SUPPLY/REPEATER XX REQUIRED					
	(FURNISHED BY MSS & INSTALLED BY OTHERS)					
_	RS485 TO USB CONVERTER 01 REQUIRED					
	(FURNISHED BY MSS & INSTALLED BY OTHERS)					
_	COMPUTER 01 REQUIRED					
	(FURNISHED BY MSS & INSTALLED BY OTHERS)					
	I-CON GATEWAY					
_	01 REQUIRED (FURNISHED BY MSS &					
	INSTALLED BY OTHERS)					
	EXTERNAL RADIOMETERS					
_	03 REQUIRED (FURNISHED BY MSS &					
	INSTALLED BY OTHERS)					
_	IQ-5 BUTTON SWITCH 01 REQUIRED					
	(FURNISHED BY MECHOSHADE)					
	IQ-5+2 BUTTON SWITCH					
_	04 REQUIRED (FURNISHED BY MECHOSHADE)					
	POWER SUPPLY					
_	01 REQUIRED (FURNISHED BY MSS & INSTALLED BY OTHERS)					
_	UPS SUPPLY 01 REQUIRED					
	(FURNISHED BY MSS & INSTALLED BY OTHERS)					
_	POWER OUTLET					
	(FURNISHED & INSTALLED BY OTHERS)					

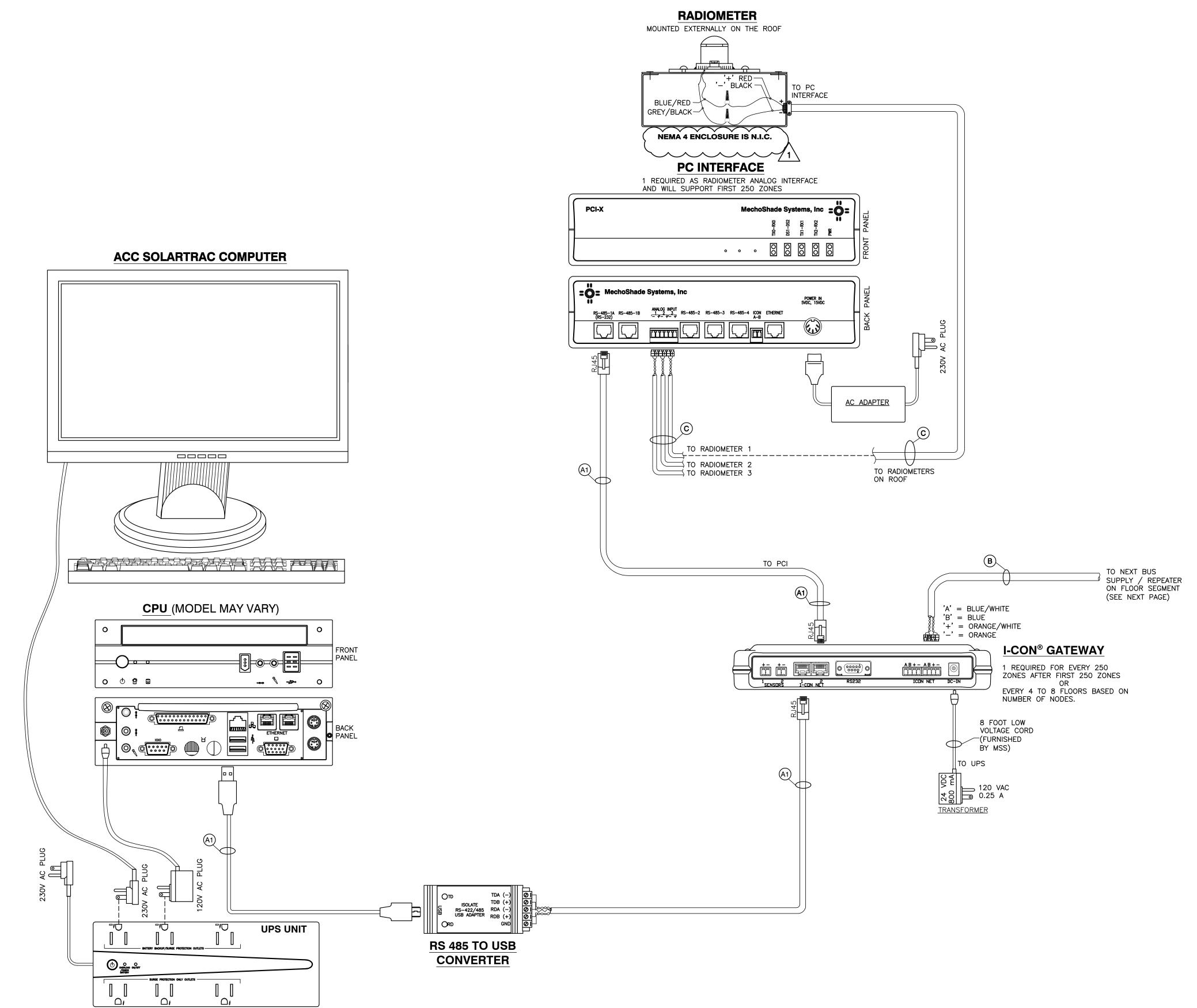
PRINTS

### CABLE LEGEND FOR I-CON SYSTEM

A	CAT5 – FOR LOW VOLTAGE DRY CONTACT CONNECTIONS 24AWG 4UTP (8-CONDUCTOR STRANDED UNSHIELDED TWISTED PAIR) OLYMPIC WIRE AND CABLE (www.olympicwire.com 1-800-526-2269) PART No. 3078M5FH. RJ-45 MODULAR PLUG CRIMPED (USOC) ON BOTH ENDS CAT5 – FOR LOW VOLTAGE DRY CONTACT CONNECTIONS IN PLENUM AREAS 24AWG 4UTP (8-CONDUCTOR SOLID UNSHIELDED TWISTED PAIR) OLYMPIC WIRE AND CABLE (www.olympicwire.com 1-800-526-2269) PART No. 3604M55 SOLID CONDUCTOR RJ-45 MODULAR PLUGS CRIMPED (USOC) ON BOTH ENDS DISTANCE LIMITATION = 400' CUMULATIVE (FURNISHED & INSTALLED BY OTHERS)
<b>A1</b>	CAT5 - CABLE FOR RS-485 CONNECTIONS 24AWG 4UTP (8-CONDUCTOR STRANDED UNSHIELDED TWISTED PAIR) RJ-45 MODULAR PLUGS CRIMPED (EIA568A) ON BOTH ENDS CONNECTED TO 2'-0" USB CABLE (USB/RJ-45) DISTANCE LIMITATION = 4000' CUMULATIVE (FURNISHED & INSTALLED BY OTHERS)
<b>A2</b>	CAT5 — CABLE FOR ETHERNET CONNECTIONS 24AWG 4UTP (8-CONDUCTOR STRANDED UNSHIELDED TWISTED PAIR) RJ-45 MODULAR PLUGS CRIMPED (EIA568A) ON BOTH ENDS DISTANCE LIMITATION = 325' (FURNISHED & INSTALLED BY OTHERS)
(A)	CATS – EXTENSION CABLE (E CABLE) CATS – FOR LOW VOLTAGE DRY CONTACT CONNECTIONS 24AWG 4UTP (8-CONDULTOR STRANDED UNSHIELDED TWISTED PAIR) OLYMPIC WIRE AND CABLE (www.olympicwire.com 1-800-526-2269) PART No. 3078M5FH RJ-45 MODULAR PLUG CRIMPED (USOC) ON BOTH ENDS FOR PLENUM AREAS – 24AWG 4UTP (8-CONDUCTOR SOLID UNSHIELDED TWISTED PAIR) OLYMPIC WIRE AND CABLE (www.olympicwire.com 1-800-526-2269) PART No. 3604M55 SOLID CONDUCTOR RJ-45 MODULAR PLUGS CRIMPED (USOC) ON BOTH ENDS DISTANCE LIMITATION = 1500' INCLUSIVE OF LONWORKS/ICON NETWORK WIRING ("B") = 400' INCLUSIVE OF DRY CONTACT SWITCH WIRING ("A") (FURNISHED & INSTALLED BY OTHERS)
В	LONWORKS CABLE - FOR I-CON NETWORK CONNECTIONS 22AWG 2UTP (4 CONDUCTOR STRANDED UNSHIELDED TWISTED PAIR) GREAT LAKES WIRE AND CABLE (www.greatwire.com -586-979-0022) PART # 70007-RIB-GY, LEVEL 4 AUTOMATION CABLE PHOENIX PHOENIX TERMINAL CONNECTORS ON BOTH ENDS "-" = ORANGE "+" = ORANGE/WHITE "B" = BLUE "A" = BLUE/WHITE DISTANCE LIMITATION = 1500' CUMULATIVE = 1200' NODE TO NODE (FURNISHED & INSTALLED BY OTHERS)
C	BELDEN TYPE 82760 18AWG 1STP (2-CONDUCTOR SHIELDED TWISTED PAIR) FOR PC INTERFACE/ANALOG I/O TO SENSOR CONNECTIONS PHOENIX CONNECTOR/CONNECTION "+" = RED "-" = BLACK '+' = BLUE/RED '-' = GREY/BLACK DISTANCE LIMITATION = 500' CUMULATIVE (FURNISHED & INSTALLED BY OTHERS)
D	COAX — USES BNC TERMINATIONS FOR ANALOG I/O TO SENSOR CONNECTIONS TERMINAL BLOCK/WIRE SPLICE CONNECTION DISTANCE LIMITATION = 1000' CUMULATIVE (FURNISHED & INSTALLED BY OTHERS)
NOTES	
	EL WIRING TO NEXT DEVICE PER BRANCH CIRCUIT CAPACITY. ALL CONNECTION MUST NATIONAL AND LOCAL CODES AND REGULATIONS.

MEET NATIONAL AND LOCAL CODES AND REGULATIONS. 2. ADDRESS SCHEDULES REQUIRED. 3. MAXIMUM VOLTAGE FOR ALL UNMARKED CABLE IS 43.5 VDC.

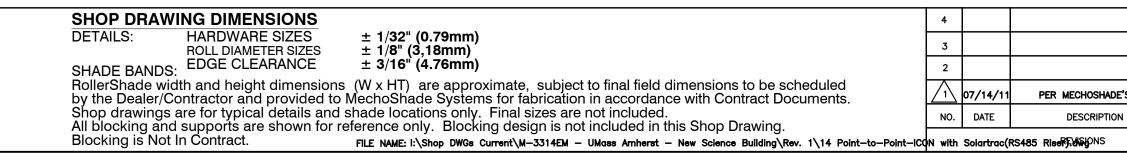
		: MechoShade Systems, Inc. The Architect's Choice™	JOB UMASS AMHERST NEW SCIENCE BUILDING AMHERST, MA	DWG NO. M-3314EM REV. 1 JOB NO. 525031
		42-03 35th Street Long Island City NY 11101	TITLE PROPOSED DETAILS	PROPOSAL NO. 185318-0-1
ITECT'S REVISION	к.с.	T: +1 (718) 729-2020	"ELECTRO" AND "MECHO" (MANUAL) SHADES	DATE SCALE O4/11/11 AS NOTED
RIPTION	BY	F: +1 (718) 729-2941 www.MechoShadeSystems.com	ARCHITECT WILSON ARCHITECTS, INC.	DWN. BY J.S.R. CKD. BY G.B.
NS		Copyright $©$ 2006 MechoShade Systems Inc.	DEALER KILCOURSE WINDOW PRODUCTS	SHEET NO. 12 OF 15



### IQ MOTOR ON I-CON CONTROL NETWORK WITH SOLARTRAC

I:\Shop DWGs Current\M-3314EM - UMass Amherst - New Science Building\Rev. 1\14 Point-to-Point-ICON with Solartrac(RS485 Riser).dwg, 7/14/2011 1:44:36 PM, Bluebeam PDF10 Printer HighRes.pc3

<u>NOTES:</u> 1 – SEE SHEET# 1



### STANDARD ELECTRICAL NOTES

ALL ELECTRICAL-CONTROL EQUIPMENT (SWITCHES, MLCS, SACS, WACS, PHOTOCELLS, ANEMOMETERS, FTS UNITS, ETC.) AS INDICATED IS FURNISHED ONLY BY MECHOSHADE™ SYSTEMS, INC., INSTALLED & WIRED BY THE ELECTRICAL CONTRACTOR.

ALL ELECTRICAL-CONTROL EQUIPMENT MUST BE WIRED IN ACCORDANCE WITH THE WIRING DIAGRAMS PREPARED BY MECHOSHADE SYSTEMS & IN ACCORDANCE WITH THE N.E.C. & LOCAL CODES.

EXCEPT FOR I-CON INTELLIGENT MOTOR AND/OR RTS MOTOR, PARALLEL AND/OR SERIES WIRING OF TWO OR MORE MOTORS ON SIMILAR POLES ON A SINGLE SWITCH OR ANY OTHER SIMILAR COMBINATION WILL VOID ANY APPLICABLE WARRANTY & CAUSE PREMATURE MOTOR BURNOUT.

FOR I-CON INTELLIGENT MOTOR &/OR RTS MOTOR, PARALLEL AND/OR SERIES WIRING IS ALLOWED UP TO MAXIMUM CIRCUIT CAPACITY.

ALL WIRING DIAGRAMS HAVE BEEN PREPARED FOR RIGHT-HAND MOTORS, REGULAR ROLL OR LEFT-HAND MOTORS, REVERSE ROLL WHICH ARE WIRED SIMILARLY. RIGHT-HAND MOTORS. REVERSE ROLL AND LEFT-HAND MOTORS, REGULAR ROLL REQUIRE SWITCHING THE RED & BLACK MOTOR WIRES AT THE MLC (MOTOR-LOGIC CONTROLLERS) OR THE SWITCH. THIS WILL PREVENT THE MOTORS FROM RUNNING IN OPPOSITE DIRECTIONS.

ALL CONTROL EQUIPMENT, SUCH AS MLCS (MOTOR-LOGIC CONTROLLERS), SACS/WACS (SUN-ACTIVATED CONTROLLERS/WIND ACTIVATED CONTROLLERS), AACS (ASTRONOMICAL CONTROLLERS), & ALL EQUIPMENT THAT MAY HAVE A TRANSFORMER FOR LOW VOLTAGE MUST BE WIRED IN PHASE. IF NOT IN PHASE, PREMATURE TRANSFORMERS AND/OR MOTOR BURNOUT & INCONSISTENT CONTROL OPERATION MAY OCCUR.

ELECTRICAL-CONTROL EQUIPMENT MAY CONTAIN ELECTROMECHANICAL RELAYS, ADJUSTMENT POINTS, FUSES, INDICATOR LIGHTS, & OTHER DEVICES. THESE MUST BE CONVENIENTLY ACCESSIBLE FOR FUTURE SERVICING & ADJUSTMENTS DURING NORMAL WORKING HOURS & WITHOUT DISRUPTION TO THE EXISTING OPERATIONS. THIS EQUIPMENT SHALL BE CODED BY THE ELECTRICAL CONTRACTOR INDICATING SHADE LOCATIONS & THE SPECIFIC MOTORS WHICH ARE CONTROLLED, & IT SHALL BE CODED AT THE CONTROL EQUIPMENT AND CIRCUIT BREAKER. GREEN MOTOR WIRES ARE TO BE FASTENED TO GROUNDED JUNCTION BOXES, CONDUITS, OR ANOTHER SUITABLE BUILDING GROUND.

STANDARD (BI-DIRECTIONAL) MOTORS THE STANDARD ELECTROSHADE<sup>™</sup>-MOTOR LEAD IS A PVC 4 CONDUCTOR #18 STRANDED CABLE APPROXIMATELY ONE-FOOT (305MM) LONG WITH A 4 CONDUCTOR DISCONNECT-PLUG.

THE STANDARD ELECTROSHADE FURNISHED-ONLY JUNCTION-BOX LEAD IS THE SAME TYPE AS THE MOTOR LEAD AND HAS A PLUG COMPATIBLE TO IT. THIS LEAD IS APPROXIMATELY FIVE-FEET (1525 MM) LONG.

ONE OR TWO MOTORS CAN BE WIRED ON A SINGLE (DOUBLE-POLE, DOUBLE-THROW) SWITCH. PLEASE REFER TO DRAWING NO. \_\_\_\_\_ FOR POINT-TO-POINT CONNECTION. HOWEVER, THREE OR FOUR MOTORS WIRED TO A SINGLE SWITCH REQUIRE THE USE OF AN MLC; FIVE TO EIGHT MOTORS REQUIRE TWO MLCS; NINE TO 12 REQUIRE THREE; AND SO FORTH. SEE DRAWINGS NO. \_\_\_\_\_ & NO. \_\_\_\_\_.

### <u>FTS MOTORS</u>

THE STANDARD ELECTROSHADE<sup>™</sup>-MOTOR LEAD IS A PVC 5 CONDUCTOR #18 STRANDED CABLE APPROXIMATELY ONE-FOOT (305MM) LONG WITH A 6 CONDUCTOR DISCONNECT-PLUG.

THE STANDARD ELECTROSHADE FURNISHED-ONLY JUNCTION-BOX LEAD IS THE SAME TYPE AS THE MOTOR LEAD & HAS A PLUG COMPATIBLE TO IT. THIS LEAD IS APPROXIMATELY FIVE-FEET (1525 MM) LONG.

ONE OR FOUR FTS SYSTEMS CAN BE WIRED ON A SINGLE PUSH-BUTTON SWITCH. PLEASE REFER TO DRAWING NO. \_\_\_\_\_ FOR POINT-TO-POINT CONNECTION. HOWEVER, FOUR OR MORE FTS SYSTEMS WIRED TO A SINGLE SWITCH REQUIRE THE USE OF A SGC; FIVE TO EIGHT MOTORS REQUIRE ONE SGC; NINE TO 12 REQUIRE TWO; AND SO FORTH. SEE DRAWINGS NO.

SOME POINT-TO-POINT WIRING DIAGRAMS MAY NOT INCLUDE MOTOR DISCONNECT-PLUGS, JUNCTION BOXES, AND CABLE RACEWAYS THAT MAY BE ESSENTIAL FOR A COMPLETE INSTALLATION.

TYPICAL ELECTRICAL RATING FOR STANDARD MOTORS:MOTOR120 VOLTS60HZ2.2 AMPS246 WATTS ACTUAL ELECTRICAL RATING IS JOB SPECIFIC AND IS BASED ON REQUIRED MOTOR & SELECTED CONTROL SYSTEM.

### I-Con/SunDialer Installation Checklist (For standard Electro Shades using the I-CON control system)

Prior to final installation and commissioning by MechoShade's authorized commissioning agent or shade dealer, the following requirements must be met and a copy of this form must be signed and faxed to MechoShade Sytems Inc.

Electrical contractor must certify all wiring is complete and is in accordance with all applicable codes and per MechoShade's

- approved shop drawings, wiring details & instructions. Dwg#:\_\_\_\_\_; rev#\_\_\_\_; approved date:\_\_\_\_\_ Electrical Contractor must certify that all line voltage and low voltage wires are properly terminated and connected. Loose wires,
- shorts miswires etc will result in improper system operation. Electrical Contractor must verify that all components are powered and that ample amperage is provided to each one per
- MechoShade's specifications.

Electrical Contractor must perform a continuity test, transmission and ground fault tests on all low voltage cables and must verify proper pair assignment and/or proper cable crimping on all communication networks and local switch cables. We recommend using a Siemon STM8 tester for continuity + transmission tests and Siem on MOD APT for testing ground shorts. Electrical Contractor must verify that wire runs do not exceed maximum wire run for all cable types as specified by MechoShade

m the shop drawings.		
CAT-5 withRJ-45 crimped on both ends	400 Ft. – Maximum Cable Run Total from switch to motor and any other device	USOC Standard
LonWorks Network Cable	1500 Ft Maximum Cable Run 1200 Ft. pt-to-pt - Maximum Cable Run	Orange = '-' Orange/White = '+' Blue = 'B'

Blue/White = 'A' Electrical contractor must certify that all crimped cables have been accomplished reliably with at least 1/8" of jacket material

extending further into the crimp past the strain relief. Electrical contractor must certify that the two solar meters are installed as per the following:

1. At least one of the radiometers should be in an un-shaded position throughout the day and year (installed such that they are not shaded by adjacent trees, construction or buildings). If both solar meters are covered by a shadow, the radiometers will communicate wrong readings to the computer which may result in shades moving to undesired positions

At the highest point on the roof 3. Minimum15-25 Ft. apart from each other

4. Facing up with the bubble leveled (centered using leveling screws), and oriented towards north in the northern hemisphere (above equator), and towards south in southern(below hemisphere).

- 5. Connections should be made in a waterproof box
- Within 500 Ft. of the SunDialer The Shade contractor must certify that
- All motors have been individually tested at the time of shade installation by utilizing a motor tester.

All motors have the proper shade rotation

All upper & lower shade limits have been set and are aligned All shades are aligned at interm ediate stops (default or custom)

Shade contractor must certify that all I-C on BI(s) and/or Intelligent Motors are programmed with unique location number. (please

see I-C on HHC Operating Manual for programming instructions)

Shade contractor must certify that all I-C on BI(s) and/or Intelligent Motors are programmed with correct addresses tables per

address schedule provided in your shop drawings. (please see I-C on HHC Operating Manual for programming instructions) Shade contractor must verify that each individual I-C on BI(s) and/or Intelligent Motors can be "POLLED" and using the I-C on

Hand Held Configurator (please see I-C on HHC Operating Manual for instructions) Shade contractor must verify that all shade control zones can be "WINKED " using the I-C on H and Held Configurator (please see I-C on HHC Operating Manual for instructions )

An Internet connection must be provided to the SunDialer IP Interface in order to commission and remotely monitor and support the control system. Access to and from the Internet must be provided using PC Anywhere, remote desktop or similar web application.

IP ADDRESS = As-built wiring diagrams to be provided to MechoShade System upon completion of wiring.

The installation shade sub-contractor (dealer) will be required to provide walkie-talkies and adequate personnel to provide shade movement information at the time the software is enabled.

MechoShade systems can only WARRANTY the control system after all listed items are certified as complete from the electrical contractor and the shade contractor (dealer). Upon completion of the items listed on this check list, please complete the information below and fax to MechoShade at 718-729-2941. Please allow a minimum of 4 weeks to schedule an MSS engineer. MechoShade will require at least 6 to 8 weeks to remotely monitor the system. A period of up to 12 months must be provided for by the owner for additional software settings to fine tune the system to meet the unique requirements of the building's occupants. Signed Signed:

-	
Shade Installation Contractor	Electrical Contractor

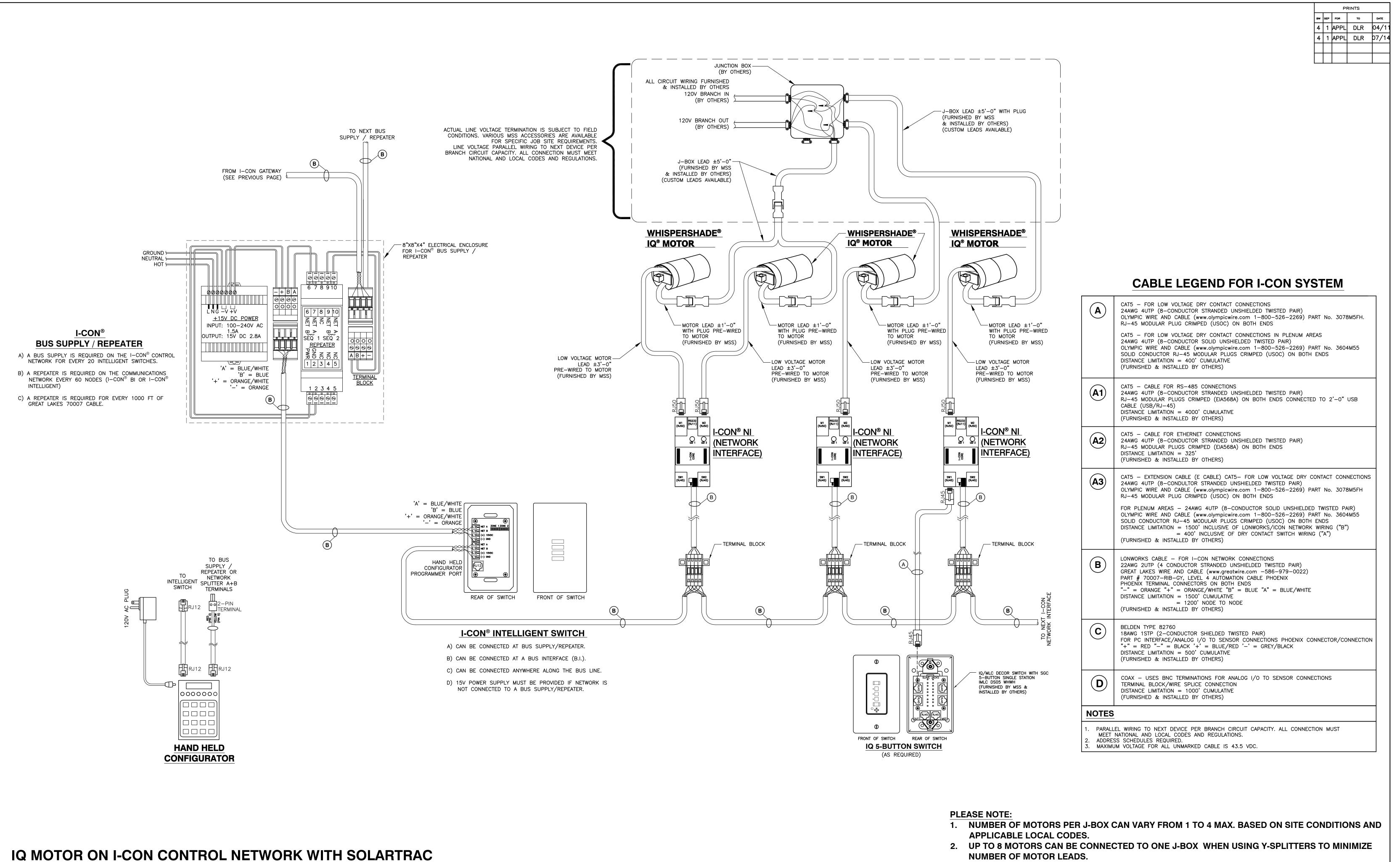
Date Signed: \_\_\_\_\_ Date Signed: \_\_\_\_\_

Project Name:

Address:

		:Ö: MechoShade Systems, Inc.	JOB UMASS AMHERST NEW SCIENCE BUILDING AMHERST, MA	DWG NO. M-3314EM REV. 1 JOB NO. 525031		
e's revision	К.С.	42-03 35th Street Long Island City NY 11101 T: +1 (718) 729-2020	TITLE PROPOSED DETAILS "ELECTRO" AND "MECHO" (MANUAL) SHADES	PROPOSAL NO. 185318-0-1 DATE SCALE O4/11/11 AS NOTED		
N	BY	F: +1 (718) 729-2941 www.MechoShadeSystems.com	ARCHITECT WILSON ARCHITECTS, INC.	DWN. BY J.S.R. CKD. BY G.B.		
	-	Copyright $©$ 2006 MechoShade Systems Inc.	DEALER KILCOURSE WINDOW PRODUCTS	SHEET NO. 13 OF 15		

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<u>NOTES:</u> 1 – SEE SHEET# 1

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SHOP DRAWING DIMENSIONS         DETAILS:       HARDWARE SIZES       ± 1/32" (0.79mm)         ROLL DIAMETER SIZES       ± 1/8" (3,18mm)	4				: en the Architect's Choice™	JOB	UMASS AMHERST NEW SCIENCE BUILDING AMHERST, MA	DWG NO. <u>M-3314</u> Јов NO. 52503	
SHADE BANDS: EDGE CLEARANCE $\pm 3/16"$ (4.76mm) RollerShade width and height dimensions (W x HT) are approximate, subject to final field dimensions to be scheduled by the Dealer/Contractor and provided to MechoShade Systems for fabrication in accordance with Contract Documents.	2	07/14/11	NO CHANGE	К.С.	42-03 35th Street Long Island City NY 11101 T: +1 (718) 729-2020	TITLE "ELECTRO	PROPOSED DETAILS " AND "MECHO" (MANUAL) SHADES		185318-0-1 SCALE AS NOTED
Shop drawings are for typical details and shade locations only. Final sizes are not included. All blocking and supports are shown for reference only. Blocking design is not included in this Shop Drawing. Blocking is Not In Contract.	NO.	DATE		BY	F: +1 (718) 729-2941 www.MechoShadeSystems.com Copyright © 2006 MechoShade Systems Inc.		WILSON ARCHITECTS, INC. COURSE WINDOW PRODUCTS	DWN. BY J.S.R. SHEET NO. 14	CKD. BY G.B.

