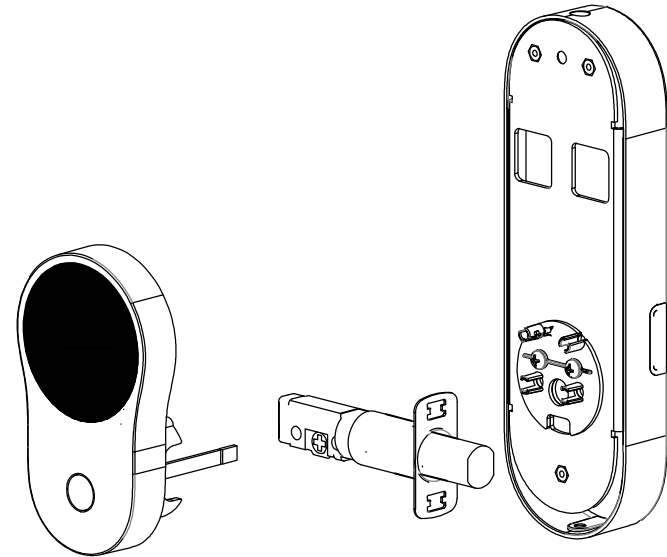
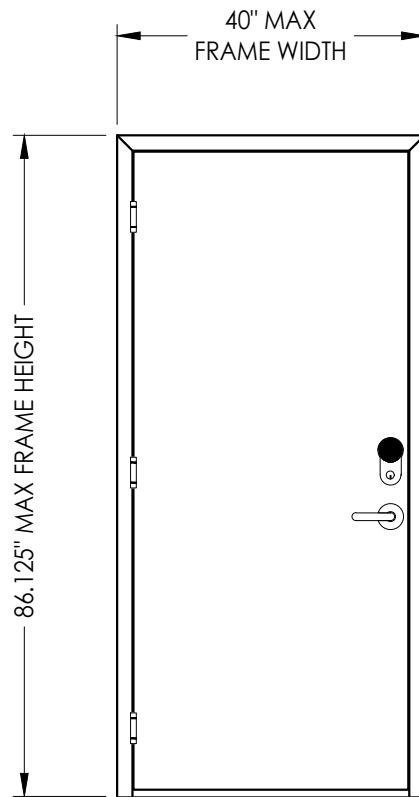


LATCH[®]
"C" SERIES
ELECTRONIC SMART LOCK
in a Steel Door
w/ Hollow Metal Frame
INSWING / OUTSWING
"IMPACT"

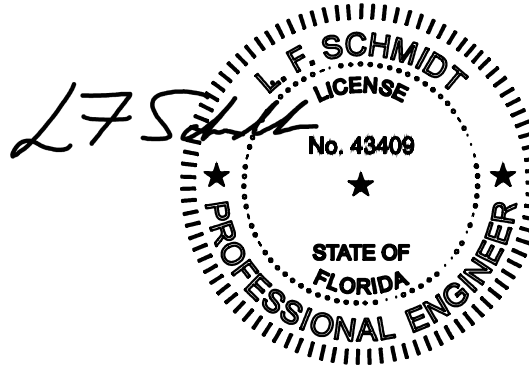
GENERAL NOTES

1. This product evaluation drawing has been developed in compliance with the 8th Edition (2023) Florida Building Code (FBC) including the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
3. When used in the "HVHZ" this product complies with Section 1626 of the FBC and does not require an impact resistant covering.
4. When used in areas outside of the "HVHZ" requiring wind borne debris protection, this product complies with FBC Sections 1609.1.2 & R301.2.1.2 and does not require an impact resistant covering. This product meets missile level "D" and includes Wind Zone 4 as defined in ASTM E 1996 and FBC Sections 1609.1.2.2 & R301.2.1.2.1.
5. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
6. Outswing configurations using sill item #16 meet the water infiltration requirements for the "HVHZ". Inswing configurations do not meet the water infiltration requirements for the "HVHZ" and shall be installed only in non-habitable areas or at habitable locations protected by an overhang or canopy such that the angle between the edge of canopy or overhang to sill is less than 45 degrees.
7. All steel shall be protected as specified in Section 2222.6 of the FBC.

TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	Typical elevation, design pressures & general notes
2	Lock details
3	Door panel details
4	Horizontal and vertical cross sections
5	Vertical cross sections (Thresholds)
6	Buck and frame anchoring
7	Bill of materials and components



"C" Series *Electronic Lock*



Digitally signed by Lyndon F Schmidt
Date: 2023.09.13 11:23:03 -04'00'

This item has been digitally signed and sealed by
L. F. Schmidt, P.E. on the date adjacent to the seal.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

THIS PRODUCT APPROVAL IS VALID
ONLY FOR THE STATE OF FLORIDA

Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT: LATCH
"C" SERIES ELECTRONIC LOCK

PART OR ASSEMBLY:
TYPICAL ELEVATION, DESIGN
PRESSURES & GENERAL NOTES

[illegible]

DATE: 04/18/18

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

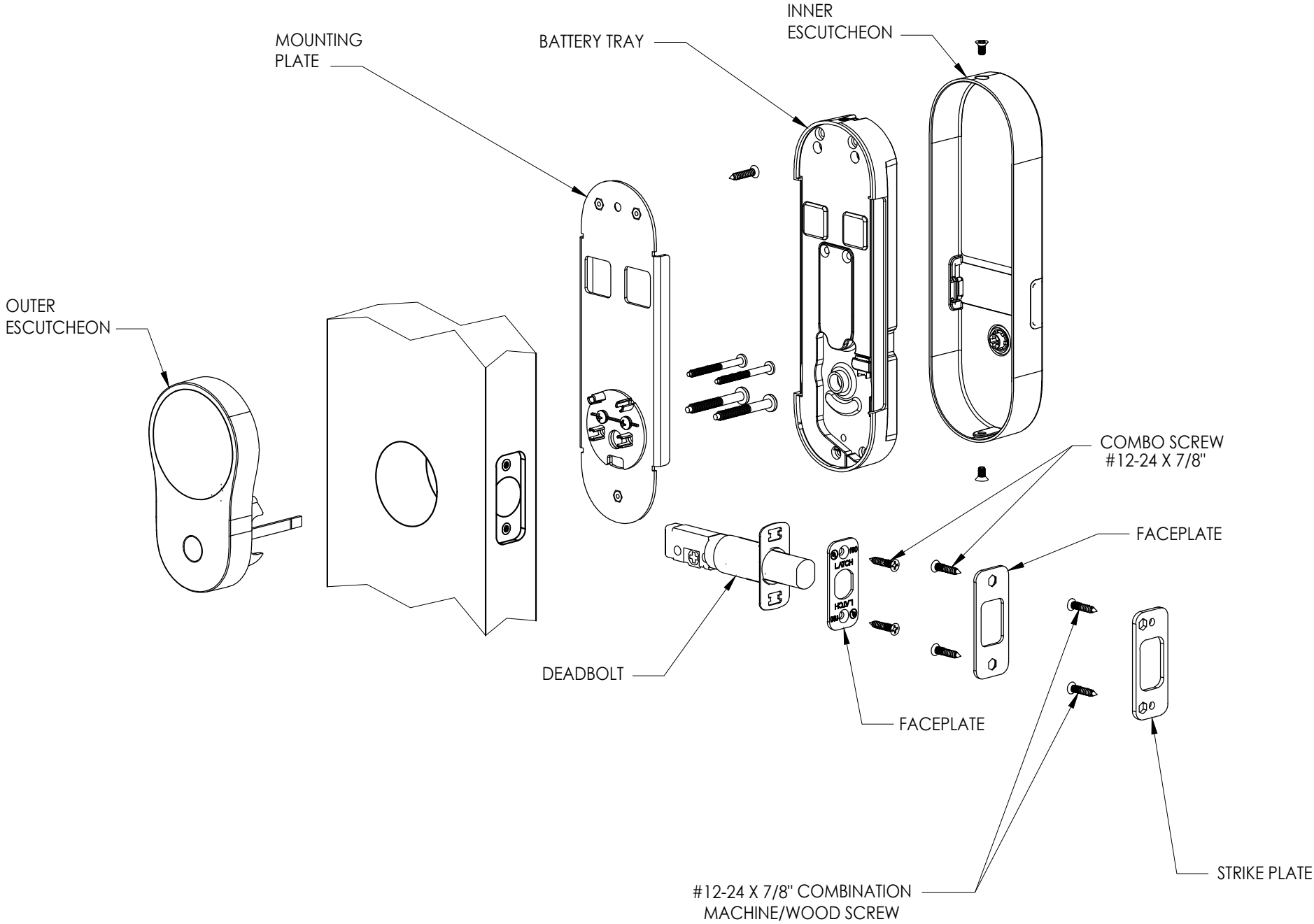
FL-26347.3

SHEET 1 OF 7

1
 2
 3
 4
 5
 6
 7
 8
 9
 10
 11
 12
 13
 14
 15
 16
 17
 18
 19
 20
 21
 22
 23
 24
 25
 26
 27
 28
 29
 30
 31
 32
 33
 34
 35
 36
 37
 38
 39
 40
 41
 42
 43
 44
 45
 46
 47
 48
 49
 50
 51
 52
 53
 54
 55
 56
 57
 58
 59
 60
 61
 62
 63
 64
 65
 66
 67
 68
 69
 70
 71
 72
 73
 74
 75
 76
 77
 78
 79
 80
 81
 82
 83
 84
 85
 86
 87
 88
 89
 90
 91
 92
 93
 94
 95
 96
 97
 98
 99
 100
 101
 102
 103
 104
 105
 106
 107
 108
 109
 110
 111
 112
 113
 114
 115
 116
 117
 118
 119
 120
 121
 122
 123
 124
 125
 126
 127
 128
 129
 130
 131
 132
 133
 134
 135
 136
 137
 138
 139
 140
 141
 142
 143
 144
 145
 146
 147
 148
 149
 150
 151
 152
 153
 154
 155
 156
 157
 158
 159
 160
 161
 162
 163
 164
 165
 166
 167
 168
 169
 170
 171
 172
 173
 174
 175
 176
 177
 178
 179
 180
 181
 182
 183
 184
 185
 186
 187
 188
 189
 190
 191
 192
 193
 194
 195
 196
 197
 198
 199
 200
 201
 202
 203
 204
 205
 206
 207
 208
 209
 210
 211
 212
 213
 214
 215
 216
 217
 218
 219
 220
 221
 222
 223
 224
 225
 226
 227
 228
 229
 230
 231
 232
 233
 234
 235
 236
 237
 238
 239
 240
 241
 242
 243
 244
 245
 246
 247
 248
 249
 250
 251
 252
 253
 254
 255
 256
 257
 258
 259
 260
 261
 262
 263
 264
 265
 266
 267
 268
 269
 270
 271
 272
 273
 274
 275
 276
 277
 278
 279
 280
 281
 282
 283
 284
 285
 286
 287
 288
 289
 290
 291
 292
 293
 294
 295
 296
 297
 298
 299
 300
 301
 302
 303
 304
 305
 306
 307
 308
 309
 310
 311
 312
 313
 314
 315
 316
 317
 318
 319
 320
 321
 322
 323
 324
 325
 326
 327
 328
 329
 330
 331
 332
 333
 334
 335
 336
 337
 338
 339
 340
 341
 342
 343
 344
 345
 346
 347
 348
 349
 350
 351
 352
 353
 354
 355
 356
 357
 358
 359
 360
 361
 362
 363
 364
 365
 366
 367
 368
 369
 370
 371
 372
 373
 374
 375
 376
 377
 378
 379
 380
 381
 382
 383
 384
 385
 386
 387
 388
 389
 390
 391
 392
 393
 394
 395
 396
 397
 398
 399
 400
 401
 402
 403
 404
 405
 406
 407
 408
 409
 410
 411
 412
 413
 414
 415
 416
 417
 418
 419
 420
 421
 422
 423
 424
 425
 426
 427
 428
 429
 430
 431
 432
 433
 434
 435
 436
 437
 438
 439
 440
 441
 442
 443
 444
 445
 446
 447
 448
 449
 450
 451
 452
 453
 454
 455
 456
 457
 458
 459
 460
 461
 462
 463
 464
 465
 466
 467
 468
 469
 470
 471
 472
 473
 474
 475
 476
 477
 478
 479
 480
 481
 482
 483
 484
 485
 486
 487
 488
 489
 490
 491
 492
 493
 494
 495
 496
 497
 498
 499
 500
 501
 502
 503
 504
 505
 506
 507
 508
 509
 510
 511
 512
 513
 514
 515
 516
 517
 518
 519
 520
 521
 522
 523
 524
 525

Z:\2023 FBC Drawings\Latch, Inc\FL-26347 R3\FL-26347.3.dwg

"C" SERIES
SMART LOCK



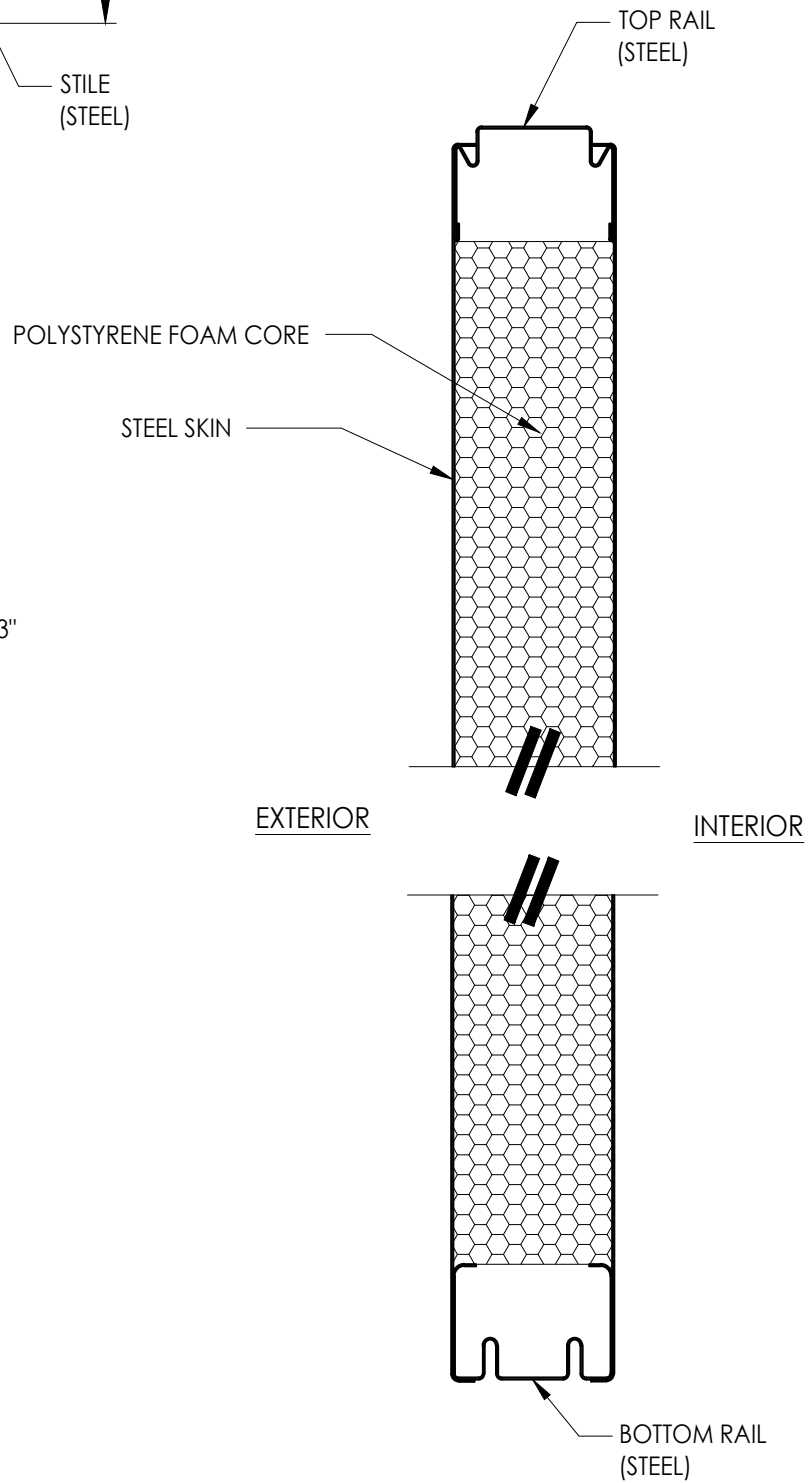
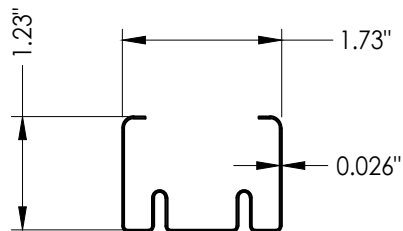
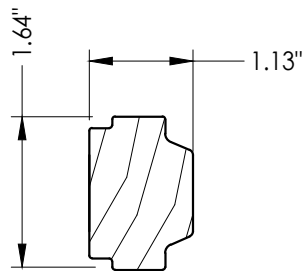
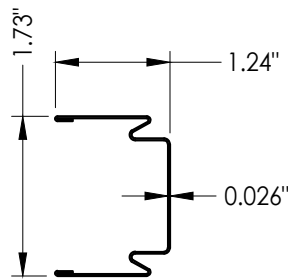
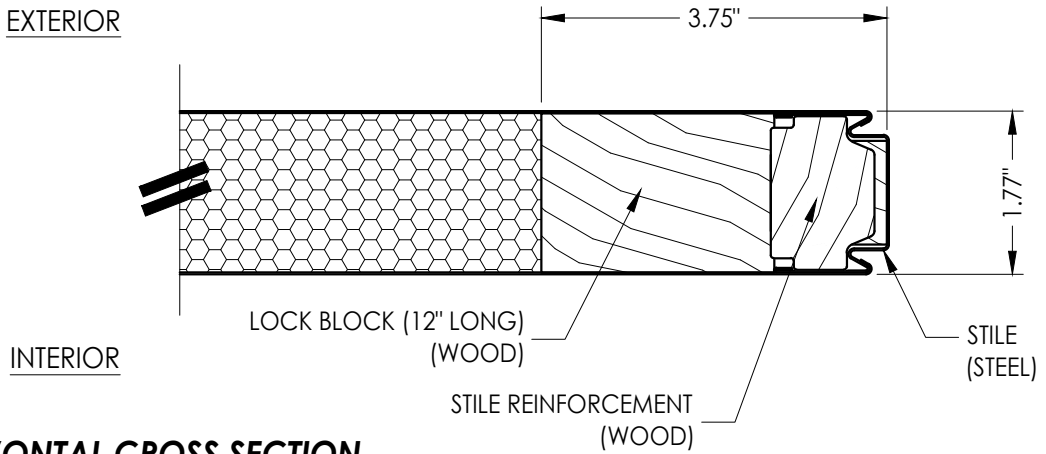
DATE: 04/18/18	
SCALE: N.T.S.	
DWG. BY: JK	
CHK. BY: LFS	
DRAWING NO.: FL-26347.3	
SHEET 2	OF 7

NO.	DATE	REVISIONS
2	9/13/23	UPDATE TO 8TH ED. (2023) FBC
1	8/03/20	UPDATE TO 7th ED (2020) FBC
		BY

PRODUCT:	LATCH
"C" SERIES ELECTRONIC LOCK	
PART OR ASSEMBLY:	LOCK DETAILS

Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409	
R.W. BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	

DOOR SKIN: 0.021" MIN. THICK GALV. STEEL
(Fy = 51,500 PSI MIN.)



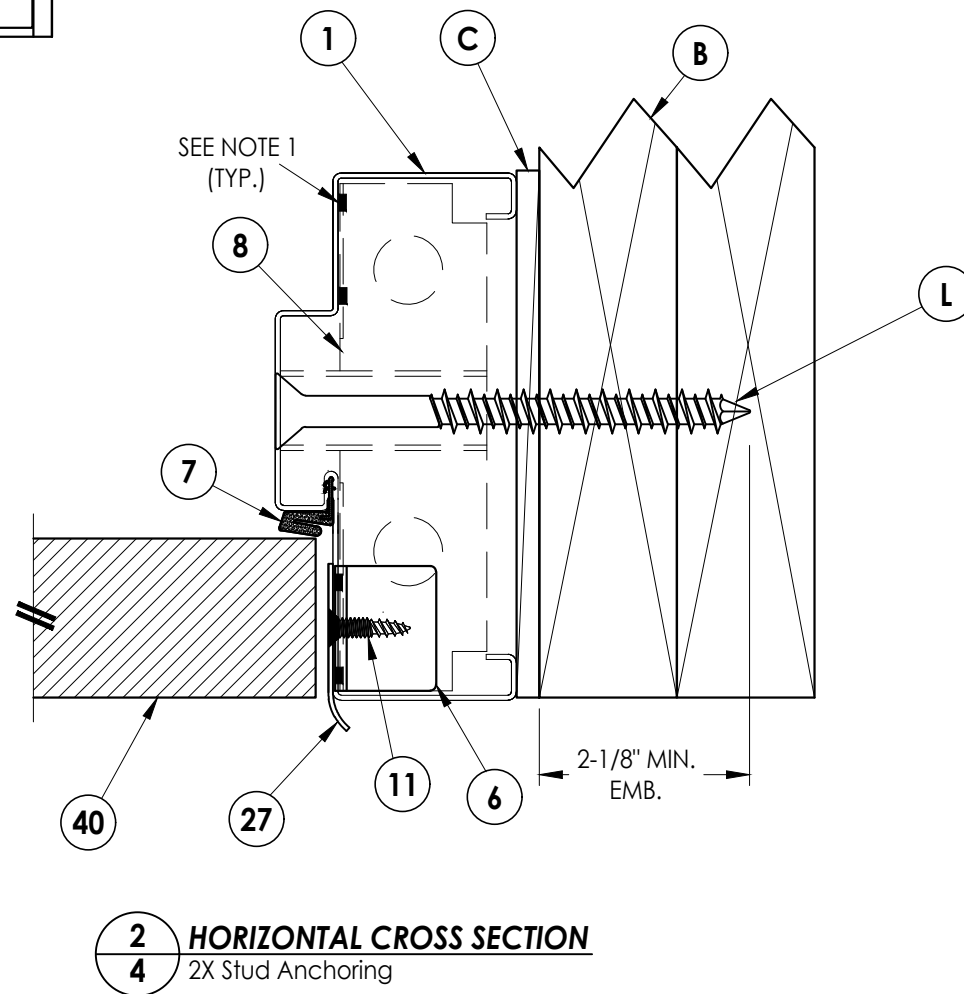
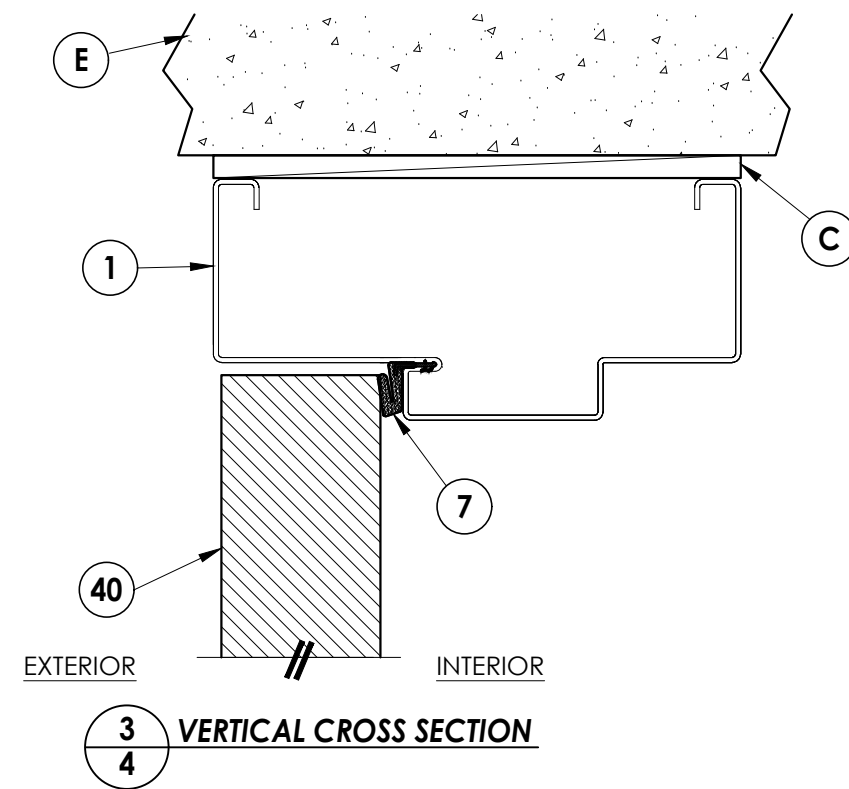
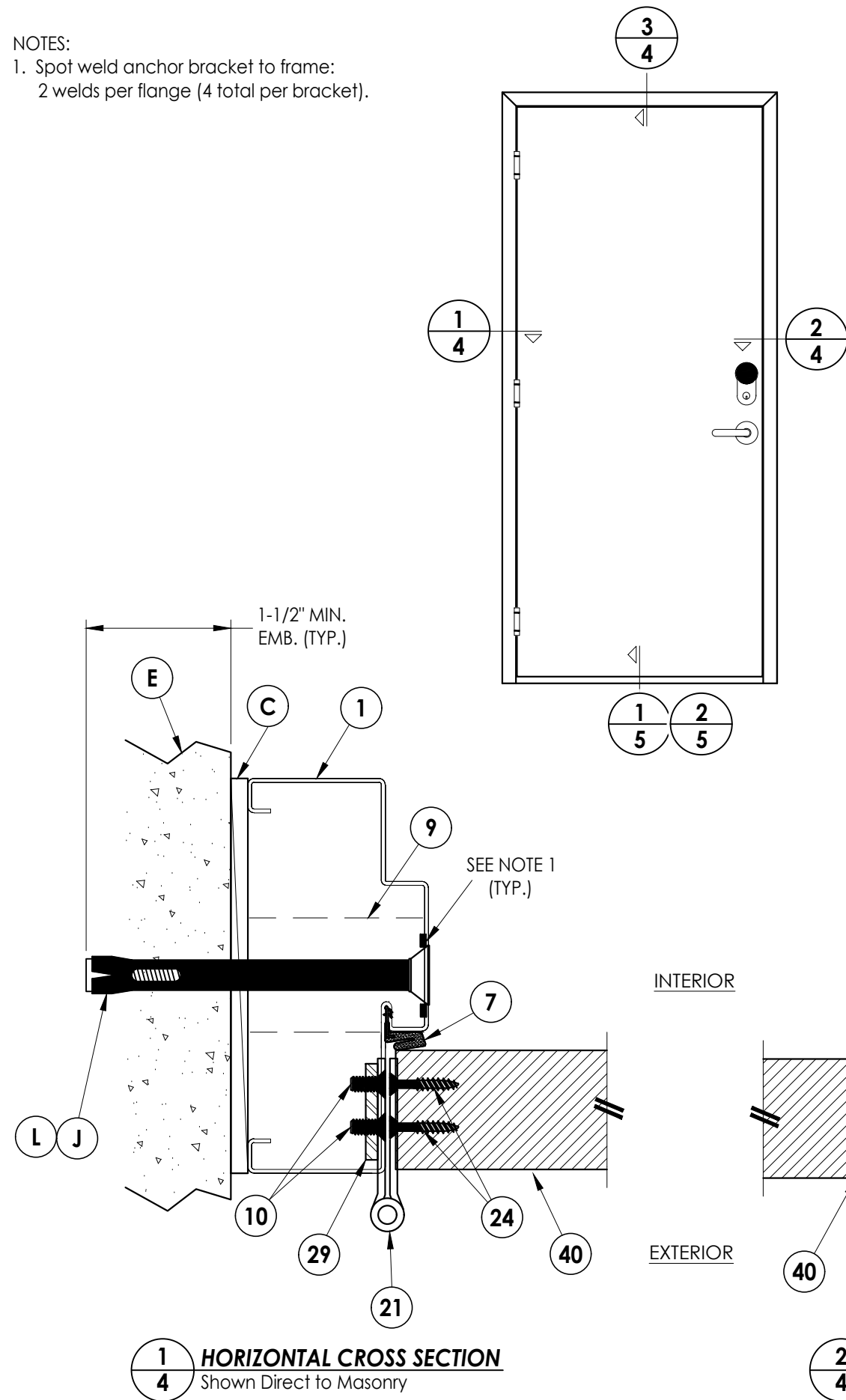
2	9/13/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
1	8/03/20	UPDATE TO 7th ED (2020)	FBC	LFS	
NO.	DATE			BY	
					REVISIONS

DATE:	04/18/18
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-26347.3
SHEET	<u>3</u> OF <u>7</u>

Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

R^W BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

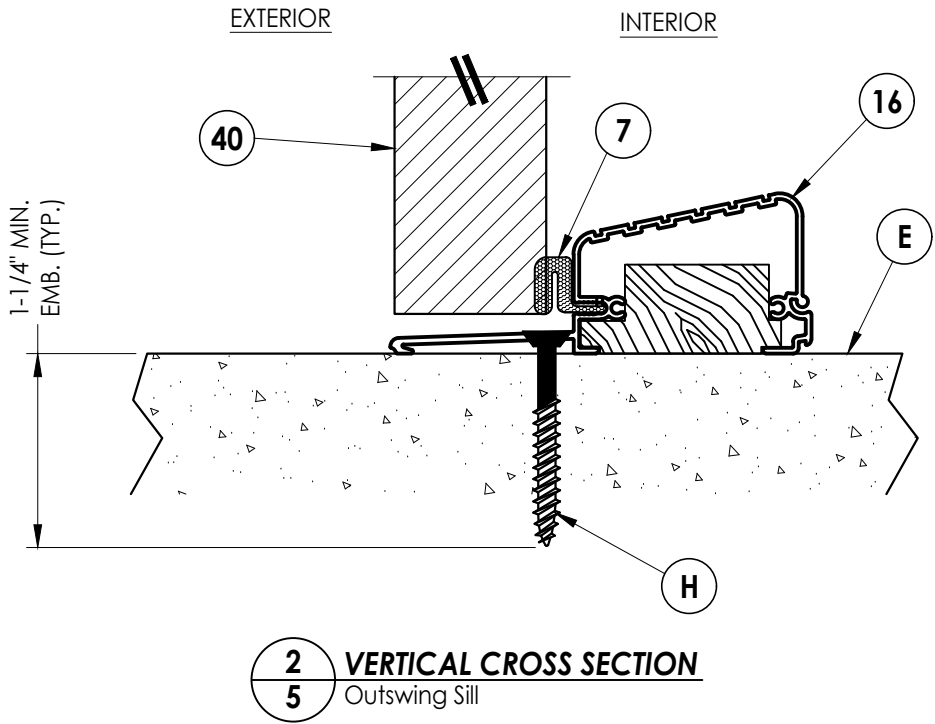
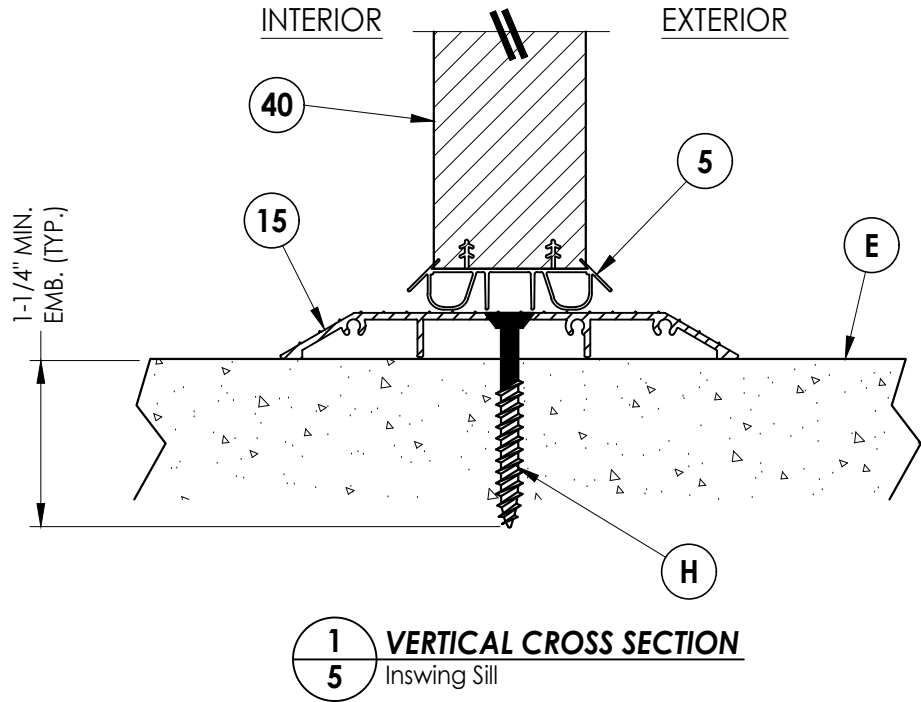
1. Spot weld anchor bracket to frame:
2 welds per flange (4 total per bracket).

[illegible]

Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

Z:\2023 FBC Drawings\Latch, Inc\FL-26347 R3\FL-26347.3.dwg



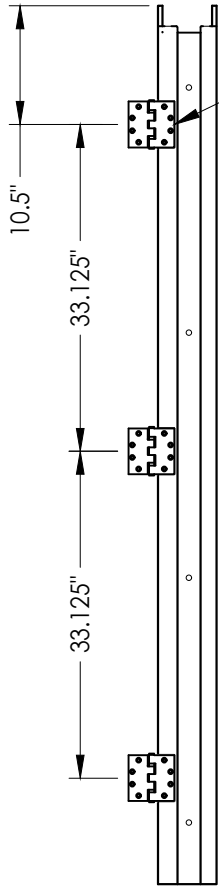
DATE: 04/18/18	
SCALE: N.T.S.	
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.: FL-26347.3	
SHEET 5	OF 7

2	9/13/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
1	8/03/20	UPDATE TO 7th ED (2020)	FBC	LFS	
NO.	DATE				BY
REVISIONS					

PRODUCT:	LATCH
"C" SERIES ELECTRONIC LOCK	
PART OR ASSEMBLY:	VERTICAL CROSS
SECTIONS (THRESHOLDS)	

Documents Prepared By:	
Lyndon F. Schmidt	
P.E. No. 43409	
BUILDING CONSULTANTS, INC.	
P.O. Box 230, Valrico, FL 33595	
Phone No.: 813.659.9197	
FBPE Registry No. 9813	

Z:\2023 FBC Drawings\Latch, Inc\FL-26347 R3\FL-26347.3.dwg

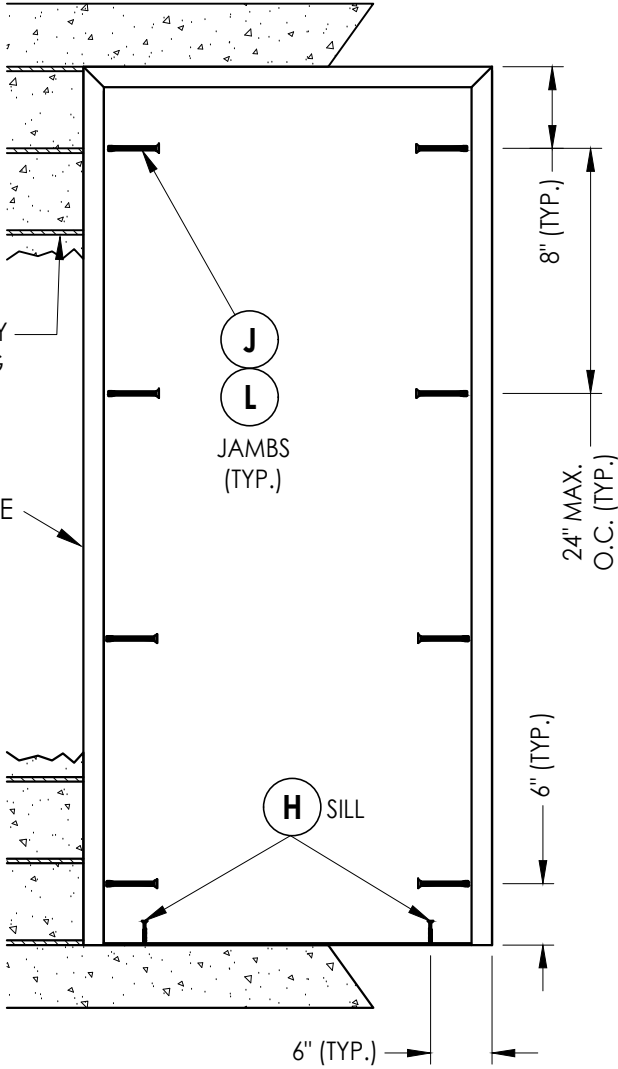


HINGE JAMB

SEE HINGE
DETAIL
(TYP.)

MASONRY
OPENING

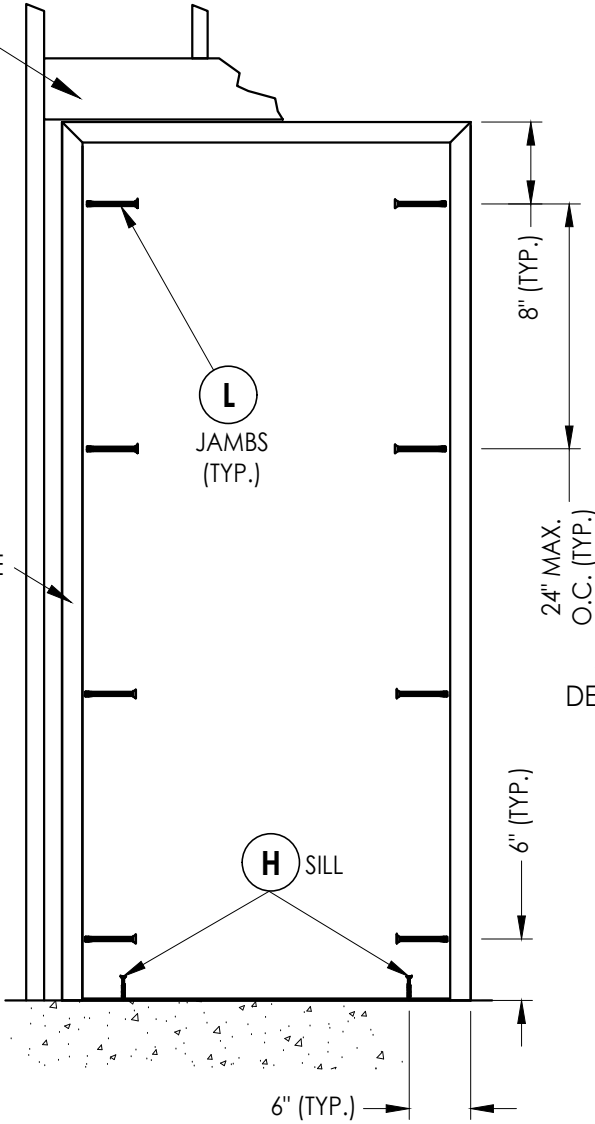
FRAME



FRAME ANCHORING
MASONRY

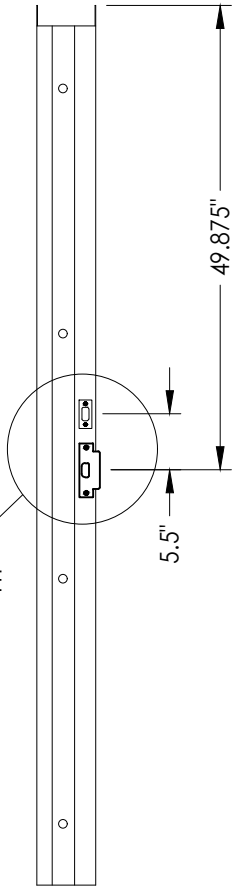
WOOD STUD
FRAMING
(BY OTHERS)

FRAME

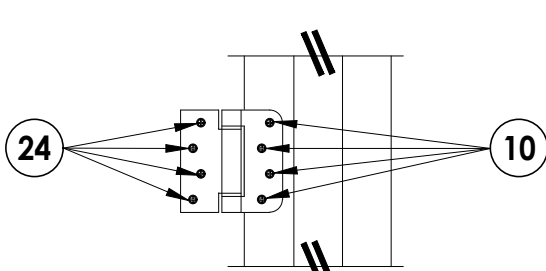


FRAME ANCHORING
WOOD STUD

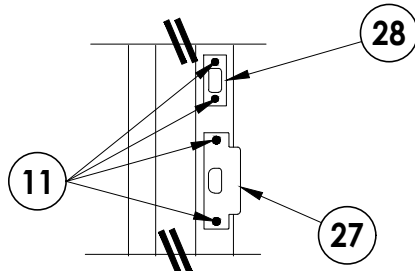
SEE LATCH &
DEADBOLT STRIKE
DETAIL (TYP.)



STRIKE JAMB



HINGE DETAIL



LATCH AND DEADBOLT STRIKE DETAIL

CONCRETE ANCHOR NOTES:

- Concrete screw locations may be adjusted to maintain a minimum 1" edge distance to mortar joints. If concrete screw locations noted as "MAX. O.C." must be adjusted to maintain the minimum edge distance to mortar joints, additional concrete screws may be required to ensure the maximum on center dimension is not exceeded.
- Concrete anchor table:

ANCHOR TYPE	ANCHOR LOCATION	ANCHOR SIZE	MANUFACTURER	MIN. EDGE DISTANCE	MIN. EMBEDMENT
CONCRETE ANCHOR SCREW	JAMBS	5/16"	ULTRACON [®] (DeWALT)	3-1/8"	1-1/4"
	SILL	1/4"	TAPCON [®] (ITW BUILDEX) ULTRACON+ [®] (DeWALT)	2-1/2"	1-1/4"
CONCRETE SLEEVE ANCHOR	JAMBS	3/8"	DYNABOLT SLEEVE ANCHOR [®] (ITW REDHEAD)	2-1/4"	1-1/2"

Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:
LATCH
"C" SERIES ELECTRONIC LOCK

PART OR ASSEMBLY:
BUCK & FRAME ANCHORING

NO.	DATE	REVISIONS
2	9/13/23	UPDATE TO 8TH ED. (2023) FBC
1	8/03/20	UPDATE TO 7th ED (2020) FBC

DATE: 04/18/18

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

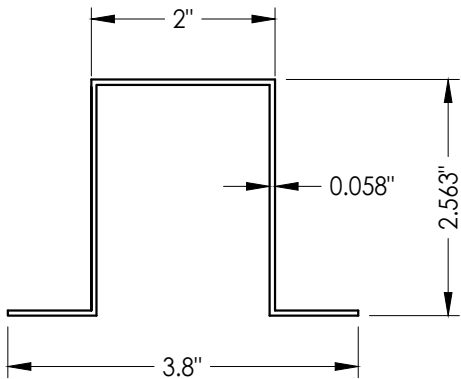
DRAWING NO.:

FL-26347.3

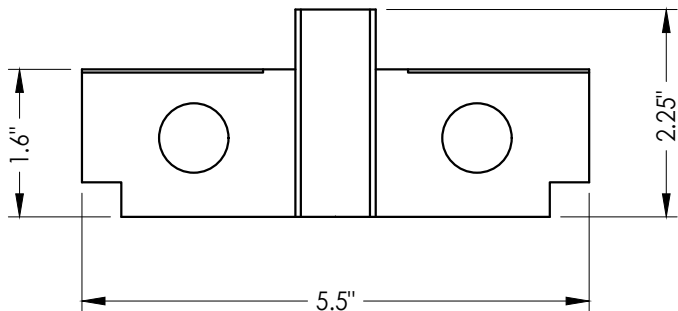
SHEET 6 OF 7

Z:\2023 FBC Drawings\Latch, Inc\FL-26347 R3\FL-26347.3.dwg

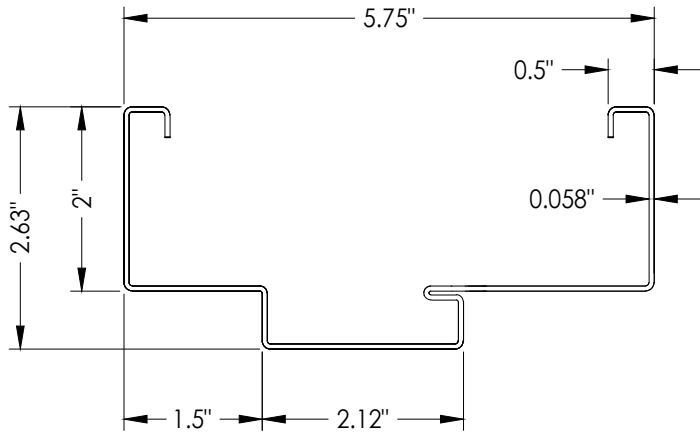
BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
B	2X FRAMING (SG >= 0.55)	WOOD
C	1/4" MAX. SHIM SPACE	-
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK (GROUT FILLED) CONFORMING TO ASTM C90	CONCRETE
H	1/4" X 1-3/4" PFH CONCRETE SCREW (SEE CONCRETE ANCHOR TABLE)	STEEL
J	3/8" X 5" PFH DYNABOLT SLEEVE ANCHOR (SEE CONCRETE ANCHOR TABLE)	STEEL
L	5/16" X 5" DeWALT ULTRA CON CONCRETE SCREW (SEE CONCRETE ANCHOR TABLE)	STEEL
1	HOLLOW METAL FRAME (GENSTEEL DOORS)	STEEL
5	DOOR SWEEP	VINYL
6	DUST BOX	STEEL
7	WEATHERSTRIP (QLON)	VINYL
8	EMA BUTTERFLY ANCHOR	STEEL
9	ANCHOR BRACKET	STEEL
10	#10-24 X 1/2" PFH MACHINE SCREW	STEEL
11	#12 X 3/4" COMBINATION WOOD/MACHINE SCREW	STEEL
15	PUBLIC ACCESS THRESHOLD	ALUM
16	OUTSWING THRESHOLD	ALUM/WOOD
21	4" X 4" HINGE	STEEL
24	#10 X 1" PFH WOOD SCREW	STEEL
27	LATCH STRIKE PLATE	STEEL
28	DEADBOLT STRIKE PLATE	STEEL
29	FRAME HINGE REINFORCEMENT	STEEL
40	DOOR PANEL	-



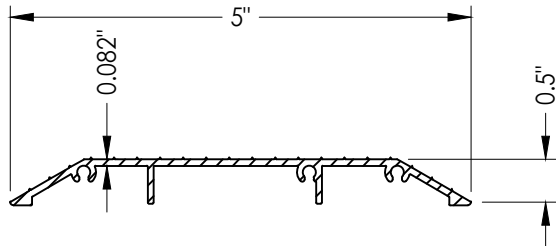
9 ANCHOR BRACKET
1-1/8" WIDE



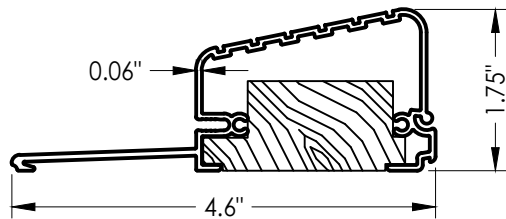
8 EMA BUTTERFLY ANCHOR
16 GA.



1 HOLLOW METAL FRAME
16 GA. GALVANNEALED STEEL



15 PUBLIC ACCESS THRESHOLD



16 OUTSWING THRESHOLD
High Dam (Columbia)

Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:
LATCH
"C" SERIES ELECTRONIC LOCK

PART OR ASSEMBLY:
BILL OF MATERIALS
& COMPONENTS

NO.	DATE	REVISIONS
2	9/13/23	UPDATE TO 8TH ED. (2023) FBC LFS
1	8/03/20	UPDATE TO 7th ED (2020) FBC LFS

DATE: 04/18/18

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-26347.3

SHEET 7 OF 7