2. DESIGN PRESSURE REQUIREMENTS OF A SPECIFIC SITE SHALL BE DETERMINED BY OTHERS IN CONFORMANCE TO SECTION 1609 OF THE FBC FOR A BASIC WIND SPEED (ALLOWABLE STRESS DESIGN) AS REQUIRED BY THE JURISDICTION WHERE THE SYSTEM WILL BE INSTALLED. ULTIMATE DESIGN LOADS (UDL) DETERMINED BY ASCE 7-16 SHALL BE REDUCED TO ALLOWABLE STRESS DESIGN LOADS (ASD) BY MULTIPLYING THE UDL BY 0.6 TO COMPARE THEM TO THE ASD PRESSURE RATINGS SHOWN ON SHEET 2. USE OF DIRECTIONALITY FACTOR Kd=0.85 IS ALLOWED.

- 3. IMPACT AND FATIGUE RESISTANCE HAS BEEN DETERMINED IN ACCORDANCE WITH THE FBC SECTION 1609.1.2. LARGE MISSILE AS LISTED HEREIN.
- 4. NO 33-1/3% INCREASE IN ALLOWABLE STRESS INCREASE HAS BEEN USED IN THE DESIGN OF THIS PRODUCT. A 1.6 WIND LOAD DURATION FACTOR WAS USED TO CALCULATE SCREW SPACINGS FOR LAG SCREWS INTO WOOD.
- 5. THIS PRODUCT EVALUATION DOCUMENT (PED) DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. IF SITE CONDITIONS DEVIATE FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS TO BE USED IN CONJUNCTION WITH THIS DOCUMENT.
- 6. THE CONTRACTOR AND / OR PERMIT HOLDER IS TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS SYSTEM, INCLUDING VERIFYING THE ADEQUACY OF THE EXISTING STRUCTURE TO WITHSTAND THE NEW SUPERIMPOSED LOADS SHOWN BELOW AND THE SOUNDNESS OF THE STRUCTURE WHERE THE SYSTEM IS TO BE ATTACHED TO ENSURE PROPER ANCHORAGE.
- 7. SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA LICENSED ENGINEER OR ARCHITECT WHO WILL BECOME THE ENGINEER OF RECORD (EOR) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE PED. THE ENGINEER OF RECORD, ACTING AS A DELÉGATED ENGINEER TO THE PED ENGINEER SHALL SUBMIT TO THIS ENGINEER THE SITE SPECIFIC DRAWINGS FOR REVIEW.

THIS PED SHALL BEAR THE DATE AND ORIGINAL SEAL OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT REGARDLESS

OF ITS AVAILABILITY FROM THE FLORIDA PRODUCT APPROVAL WEBSITE.

- 9. THIS SYSTEM MAY ALSO BE INSTALLED HORIZONTALLY FOLLOWING INSTALLATION DETAILS SHOWN HEREIN.
- 10. <RESERVED>
- 11. CORRUGATED PANEL LIMITATIONS OF USE:

THE MAXIMUM SIZE SHALL BE 25 PSF MAX. PRESSURE @135 INCHES MAXIMUM WIDTH (CENTER / CENTER OF WALL FASTENERS). SEE TABLES ON SHEET 2 of 10.

12. FLAT PANEL LIMITATIONS OF USE:

THE MAXIMUM ALLOWABLE DESIGN PRESSURES ARE: +60PSF/-60PSF. SEE TABLES ON SHEET 2 OF 10.

- 13. FOR DETERMINING INTERNAL PRESSURE IN THE ABOVE REFERENCED CODES, THIS PRODUCT IS CLASSIFIED AS NON-POROUS WITH A POROSITY OF LESS THAN 10% FOR THE CONDITIONS SHOWN IN THIS PRODUCT EVALUATION DOCUMENT. CLEAR PANELS MUST COMPLETELY COVER AN OPENING IN ALL DIRECTIONS. SEE END CAP BUILD OUT DETAIL ON SHEET 8 OF 10.
- 14. ALL SCREWS TO BE STAINLESS STEEL 304 OR GALVANIZED A307 STEEL. ALL BOLTS TO BE ASTM A307, GALVANIZED OR 304 SERIES STAINLESS STEEL.
- 15. PANEL OR PANELS CAN BE USED ADJACENT TO OTHER APPROVED CORRUGATED SYSTEMS.
- SUPPORTBRACKETS AND ANCHORS:
  - A. ANCHORS INTO THE SUPPORT SUBSTRUCTURE ( WALL, CEILINGS, BEAMS AND FLOORS) SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS.
  - THE ANCHOR SPACING SHOWN ON SHEETS 2, 6, 7, 8, 9, & 10 of 10, INDICATED FOR 1/4" and 3/8" DIAMETERS REFER TO CENTER OF SUPPORTING BRACKETS.
  - C. THE ANCHOR SPACING CHARTS ARE BASED ON A REMOVAL BRACKET SYSTEM USING MALE PANELMATES WITH WINGNUTS, FEMALE PANELMATES, SAMMY'S AND DROP-IN ANCHORS WITH SIDEWALK BOLTS. TAPCONS OF THE SAME SIZE MAY BE SUBSTITUTED FOR PERMANENT BRACKET INSTALLATIONS. ITW MAXI-SET TAPCONS MAY BE USED.
  - ANCHOR MINIMUM EMBEDMENT AND EDGE DISTANCES

OF ELCO ULTRACONS, ITW TAPCONS OR ALL POINTS TAPCONS.

-:	,,		
	SUBSTRUCTURE	EMBEDMENT	EDGE DISTANCE
	HOLLOW BLOCK	1-1/4 INCH	12 D OR PER MANUFACTURER'S SPECIFICATIONS
	GROUT FILLED OR KSI CONCRETE	1-3/4 INCH	12 D OR PER MANUFACTURER'S SPECIFICATIONS
ſ	4 KSI CONCRETE OR 2 KSI CONCRETE	1-3/4 INCH	12 D OR PER MANUFACTURER'S SPECIFICATIONS
ſ	WOOD OR TIMBER	8 D	3/4 INCH

- NO EMBEDMENT INTO NON-STRUCTURAL MATERIAL SUCH AS STUCCO, SIDING AND PAVERS SHALL BE INCLUDED AS PART OF THE EMBEDMENT REQUIREMENT.
- STEEL SURFACES TO BE PLACED IN CONTACT WITH ALUMINUM SHALL BE GIVEN ONE COAT OF ZINC CHROMATE PRIMER IN ACCORDANCE WITH FEDERAL SPEC NO.: TTP-645, OR BE GALVANIZED.
- 18. MAXIMUM DESIGN PRESSURE VERSUS PANEL SPAN SHOWN ON SHEET 2 of 10. INTERPOLATION IS ALLOWED IN BETWEEN TWO SPANS TO OBTAIN SPACINGS NOT LISTED.
- ALL ALUMINUM ALLOYS SHALL BE 6063-T6, 6061-T5, 6061-T6 OR 6005-T5.
- ANCHORING OR LOADING CONDITIONS OTHER THAN THOSE SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.
- TRACKS MAY BE CURVED TO FOLLOW THE INSTALLATION PROFILE AROUND ARCHES AND RADII.
- PANEL'S MANUFACTURER LABEL SHALL BE PLACED ON A READILY AND VISIBLE LOCATION ON THE PANEL. ONE LABEL SHALL BE PLACED FOR EVERY OPENING. LABEL SHALL READ AS FOLLOWS:

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FLORIDA PRODUCT APPROVAL NUMBER: FL-XXXX. OPENING NO.: XX

23. THIS DOCUMENT IN ITS ENTIRETY WILL BE CONSIDERED INVALID IF IT IS ALTERED BY ANY MEANS OR DOES NOT BEAR THE DATE AND ORIGINAL SEAL OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

	POLYCARBONA	TE SOURCES		
		RESULT		
TYPICAL PROPERTIES	STANDARD	SABIC LEXAN 103 RESIN	BAYER MAKROLON 3103	PALRAM PALSUN
MECHANICAL				
TENSILE YIELD STRENGTH	ASTM D638	9.5 ksi	9.4 ksi	9.5 ksi
FLEXURAL STRENGTH AT YIELD	ASTM D790	12.5 ksi	12.5 ksi	12.5 ksi
FLEXURAL MODULUS	ASTM D790	345 ksi	340 ksi	340 ksi
IMPACT:				
NOTCHED IZOD	ASTM D256	17 ft-lb/in	18 ft-lb/in	15 ft-lb/in
FIRE BURNING CHARACTERISTICS:				
SMOKE DENSITY	ASTM D2843	64.5% MAX.	47.20%	64.00%
RATE OF BURNING	ASTM D635	C-1 CLASS	C-1 CLASS	C-1 CLASS
SELF IGNITION	ASTM D1929	980 deg. F	1040 deg. F	1040 deg. F
WEATHERING:	ASTM G155			
TENSILE STRENGTH AFTER WEATHERING	ASTM 638	8.840 ksi	9.302 ksi	8.81 ksi
TENSILE STRESS BEFORE WEATHERING	ASTM 638	8.880 ksi	8.461 ksi	8.21 ksi
PHYSICAL:				
SPECIFIC GRAVITY	ASTM D792	0.043 lb/in^3	0.043 lb/in^3	0.043 lb/in^3

#### **TEST REPORTS**

UNIFORM STATIC AIR PRESSURE (TAS 202, E330-02)

HETI 07-4198 04/30/2007 HETI 07-4202/32 04/30/2007 HETI 07-4252 06/13/2007 HETI 07-4285 07/27/2007 HETI 08-2048/50/52 10/10/2008 HETI 09-2507A 01/28/2009 HETI 09-2508A 01/28/2009 04/26/2012 B9069.01-401-18 BT-ULTK-13-001A 09/24/2013 BT-ULTK-13-001B 09/24/2013

LARGE MISSILE & CYCLIC LOADING (TAS 201, TAS 203)

HETI 07-4199/04/05 04/30/2007 HETI 07-4233/54 04/30/2007 HETI 07-4233/86 07/27/2009 HETI 08-2049 10/10/2008 HETI 09-2507B 01/28/2009 HETI 09-2508B 01/28/2009 B9069.01-401-18 04/26/2012

BT-ULTK-13-001A 09/24/2013 plus ASTM E1886-02, E1996-02 BT-ULTK-13-001B 09/24/2013 plus ASTM E1886-02, E1996-02

TENSILE TEST (ASTM D638-03)

HETI 07-T750 09/07/2007 HETI 09-T104/05 01/28/2009

EVALUATION BASED ON: ARCHITECTURAL TESTING INC.

REPORT DATE: 12-21-2011

TEST PROTOCOL: ASTM E 1886-05 (IMPACT & CYCLIC TEST METHOD) ASTM E 1996-05 (IMPACT STANDARD SPECIFICATION)

ASTM E 330-02 (STATIC TEST METHOD)

DESIGN PRESSURE: 60 PSF W/ MISSLE LEVEL D AND WIND ZONE 4. TEST PRESSURE: 90 PSF

OVERALL SPAN: 9'-1" (109 INCHES)

EVALUATION BASED ON: ARCHITECTURAL TESTING INC.

REPORT NO.: A3398.01-401-44 REPORT DATE: 09/08/10

TEST PROTOCOL: ASTM E 1886-05 (IMPACT & CYCLIC TEST METHOD) ASTM E 1996-05 (IMPACT STANDARD SPECIFICATION)

ASTM E 330-02 (STATIC TEST METHOD)

DESIGN PRESSURE: 60 PSF W/ MISSLE LEVEL D AND WIND ZONE 4. TEST PRESSURE: 90 PSF

OVERALL SPAN: 9'-1" (109 IN.) CTR/CTR FASTENERS, 8'-9" (105 IN.) INSIDE TO INSIDE FRAME. THIS PRODUCT **APPROVAL IS ONLY VALID FOR THE STATE** OF FLORIDA

John H. Kampmann Jr., PE FL License #: 47516 DATE:

Ultratek Worldwide Inc. 3801 N. Washington Blvd. Sarasota, FL 34234 PHONE: (941) 924-2285 www.ultratekworldwide.com

SYSTEM + NON-HVHZ CLEARTEK STORM PANEL

roject #:20-050 NOTED

10/3/20

1/10

# roject #:20-050 NOTED 10/3/20

# CORRUGATED PANEL TABLES

### CORRUGATED

SPAN LO	AD TABLE
DIRECT MOUNT PAN	ELS AT BOTH ENDS
MAX. SPAN - IN.	MAX. DESIGN LOAD
60″	75.0
72"	60.0
84"	55.0
96"	52.0
108″	35.0
120″	32.0
132"	30.0
135″	25.0

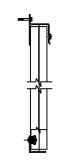
MOUNT WITH FASTENERS AT MAX. 13 INCH O.C.



100	30.0
135″	25.0
100	

## CORRUGATED

	DAD TABLE
DIRECT MOUNT PAN	ELS AT ONE END ONLY
MAX. SPAN - IN.	MAX. DESIGN L□AD
60″	60.0
72"	50.0
84"	45.0
96"	40.0
102"	22.0



- STORM BARS FOR WIND ZONE 4 AND ESSENTIAL FACILITES 1. STORM BARS REQUIRED 12" FROM EDGE AND EVERY 18 " IN THE FIELD.
- 2. LENGTH OF STORM BARS SAME AS LENGTH OF PANELS.
- 3. MAXIMUM OPENING SIZE IS 80 INCHES.
- 4. MAXIMUM PRESSURE IS 75 PSF.

LAG-WOOD

WINGNUT-

5. WITH ABOVE CRITERIA, MAXIMUM DEFLECTION IS 0.85 INCHES. PANEL IS TO BE INSTALLED NO CLOSER THAN 2 INCHES FROM GLAZING.

PANEL MATE (MALE FASTENER

ALL POINTS, ITW BUILDEX

TAPCON ANCHOR

SCOTS, 410SS

INCLUDING: MAXISET,

6. STORM BARS (2"x2"x1/8" RECT. TUBE) FIT IN CORREGATION BETWEEN PANEL AND BUILDING AND ARE TO BE USED ONLY WITH ALTERNATE "A" CORRIGATED PANEL SHOWN ON SHT. 5 OF 10.

DES PRESS 30 P	SURE	4000 PSI CONCRETE	2000 PSI CONCRETE	HOLLOW BLOCK	WOOD
	Span(in.)				
1/4"	105	11	11	8	7
FASTENERS	86	11	11	10	9
FASTENERS	67	11	11	11	11
	48	11	11	11	11
75000	105	11	11	11	10
3/8"	86	11	11	11	11
FASTENERS	67	11	11	11	11
	48	11	11	11	11

DES PRESS 50 P	SURE	4000 PSI CONCRETE	2000 PSI CONCRETE	HOLLOW BLOCK	WOOD
	Span(in.)				
1/4"	105	9	8	6	5
FASTENERS	86	10	9	7	6
FASTENERS	67	11	11	9	8
	48	11	11	11	10
	Span(in.)				
2/011	105	11	11	11	7
3/8" FASTENERS	86	11	11	11	8
FAS IENERS	67	11	11	11	10
	48	11	11	11	11

	paration Schedule for red Panels
Direct Mount Pan	els at One End Only
Max. Span - In.	Min. Separation
60	6.125
72	6.56
84	7
96	7.06
102	7.125

	102	7.125
PANEL MATE (FEMALE)	SIDEWALK BOLTS FASTENAL 1/4-20X1 FASTENAL 3/8-16X1	POWERS HOLLOW SET DROP-IN OR LEAD ANCHOR
		<b>WITTE</b>
POWERS FLANGED LIP DROP-IN	POWERS SMOOTH WALL DROP-IN	PANELMATE INSERT

for ClearTek Flat Panels							
Positive Load (psf)	Span Less Than	Minimum Separation from Glass	Minimum Separation from Glass With Side Bracket (See Note 3)				
	49"	2.25"	2.25"				
30	70.5"	3.35"	2.47"				
	92"	4.44"	2.68"				
	49"	2.25"	2.25"				
40	70.5"	-	2.69"				
	92"	-	3.12"				
	49"	2.43"	2.25"				
50	70.5"	-	3.03"				
	92"	-	3.80"				
	49"	3.00	2.25"				
60	70.5"	-	3.08"				
	92"	-	3.90"				

Minimum Glass Separation Schedule

FLAT PANEL TABLES

DESIGN

**PRESSURE** 

40 PSF

DESIGN

**PRESSURE** 

60 PSF

1/4"

**FASTENERS** 

3/8"

**FASTENERS** 

**FASTENERS** 

3/8"

**FASTENERS** 

Span(in.)

Span(in.)

86

48

Span(in.) 105 86

48

Span(in.) 105

86

67

4000 PSI

CONCRETE

11

11

11

11

11

11

11

4000 PSI

CONCRETE

11

11

11

2000 PSI

CONCRETE

11

11

11

11

11

11

11

2000 PSI

CONCRETE

10

11

11

11

HOLLOW

BLOCK

10

11

11

11

11

11

HOLLOW

10

11

11

BLOCK

WOOD

11

10

11

11

WOOD

### **GLASS SEPARATION SCHEDULE NOTES:**

- 1) GLASS SEPARATION SCHEDULE PROVIDES MINIMUM SEPARATION DISTANCE REQUIRED BETWEEN EXTERIOR FACE OF GLAZING (OR OTHER PRODUCT BEING PROTECTED) AND INTERIOR FACE OF INSTALLED STORM PANEL.
- 2) SEPARATION DISTANCE PER THIS SCHEDULE IS REQUIRED FOR USE WITH POSITIVE LOADS ONLY.
- 3) SIDE BRACKET IS AN EXTRA BRACKET ADDED HALFWAY ACROSS SPAN ON BOTH SIDES.
- 4) SEPARATION FROM GLAZING IS REQUIRED FOR ALL INSTALLATIONS WITHIN THE HIGH VELOCITY HURRICANE ZONE, WIND ZONE 4 AND ESSENTIAL FACILITIES.
- 5) SEPARATION IS NOT REQUIRED FROM ANY FENESTRATION PRODUCT THAT DOES NOT CONTAIN GLAZING.
- 6) SEPARATION FROM GLAZING IS NOT REQUIRED FOR INSTALLATIONS OUTSIDE OF WIND ZONE 4 AND ESSENTIAL FACILITIES.

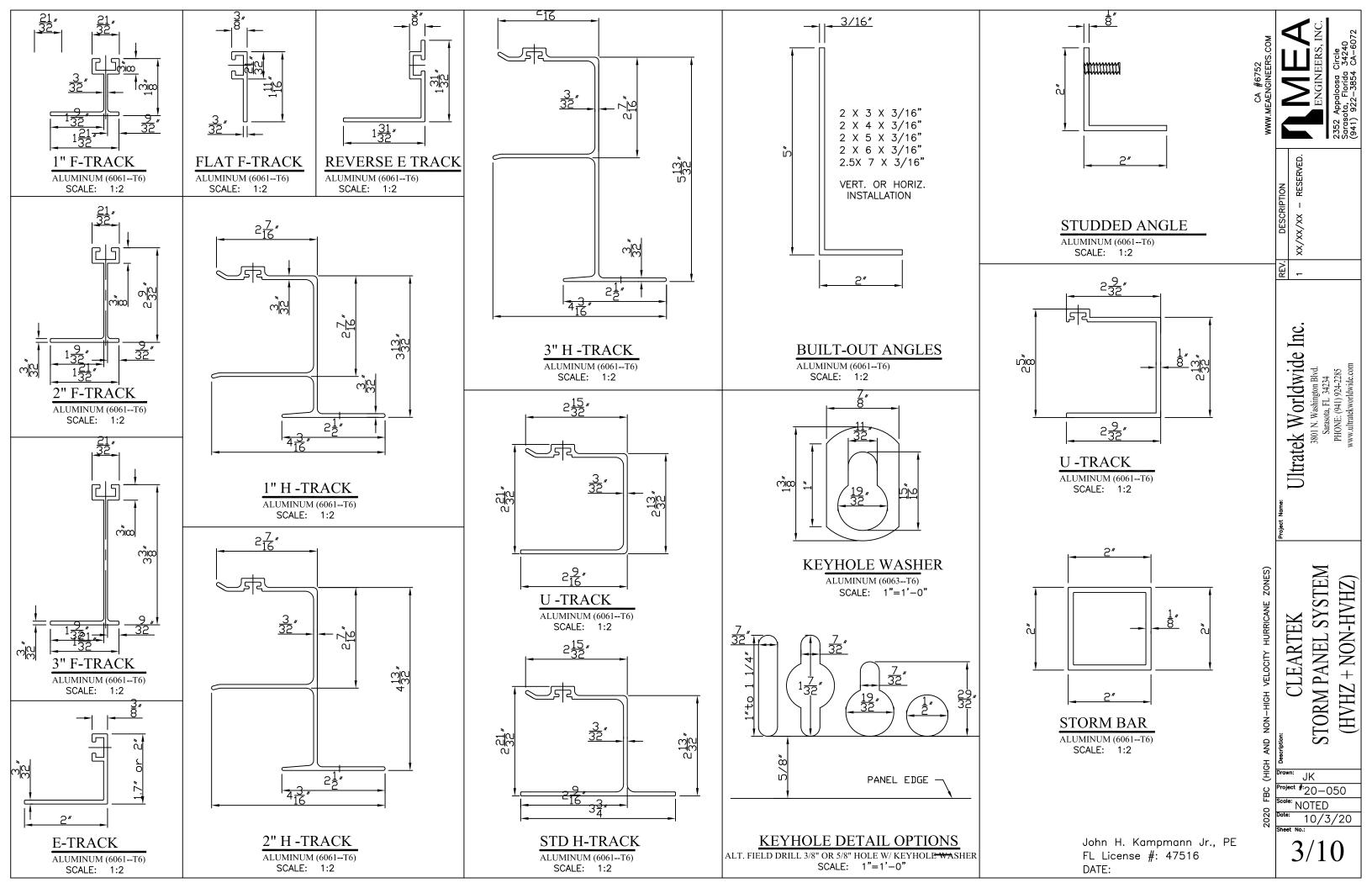
SAMMY (GST)-WOOD

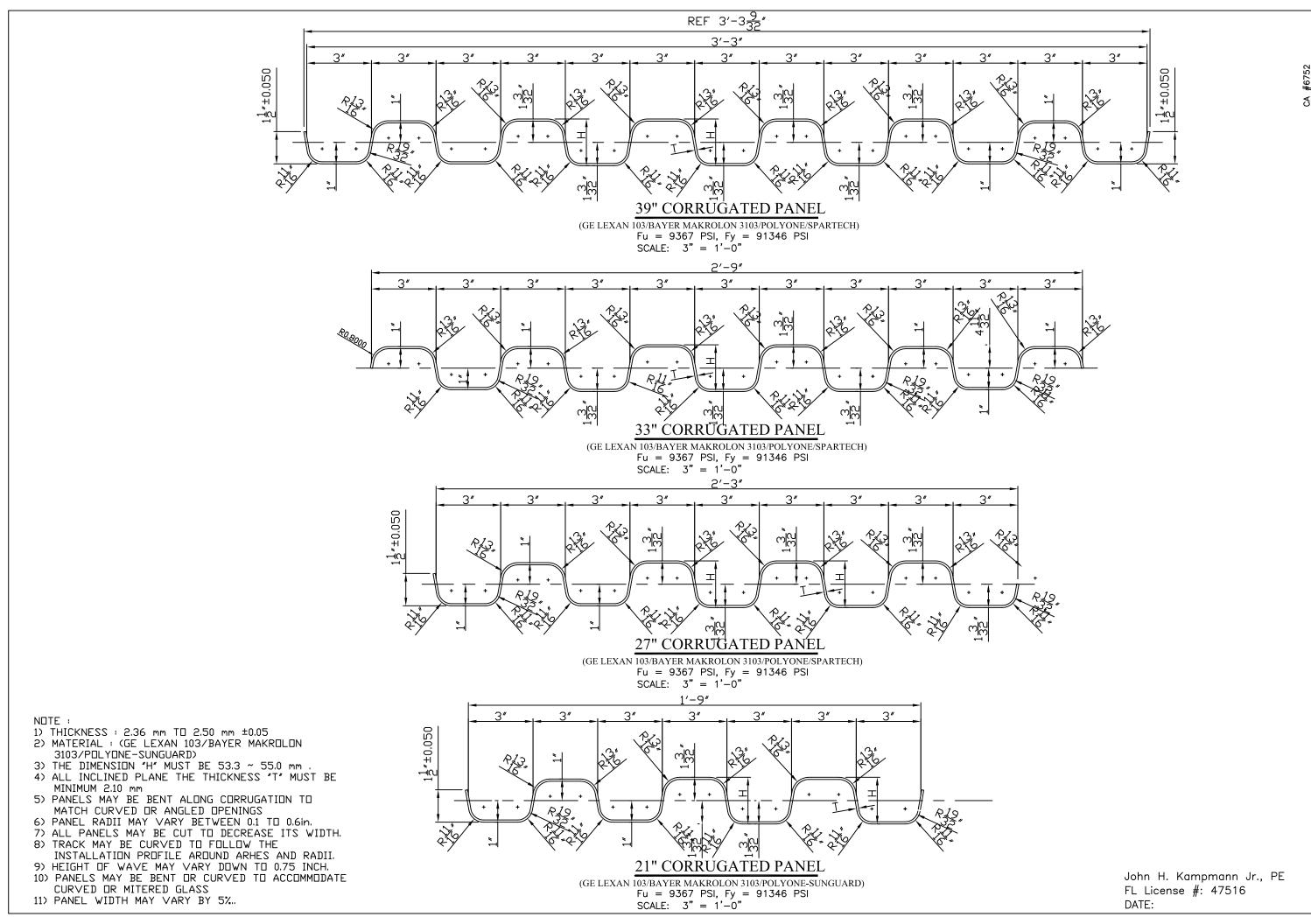
SAMMY (CST) CONC.

TYPICAL FASTENERS/ANCHORS - 1/4" AND 3/8"

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DATE:





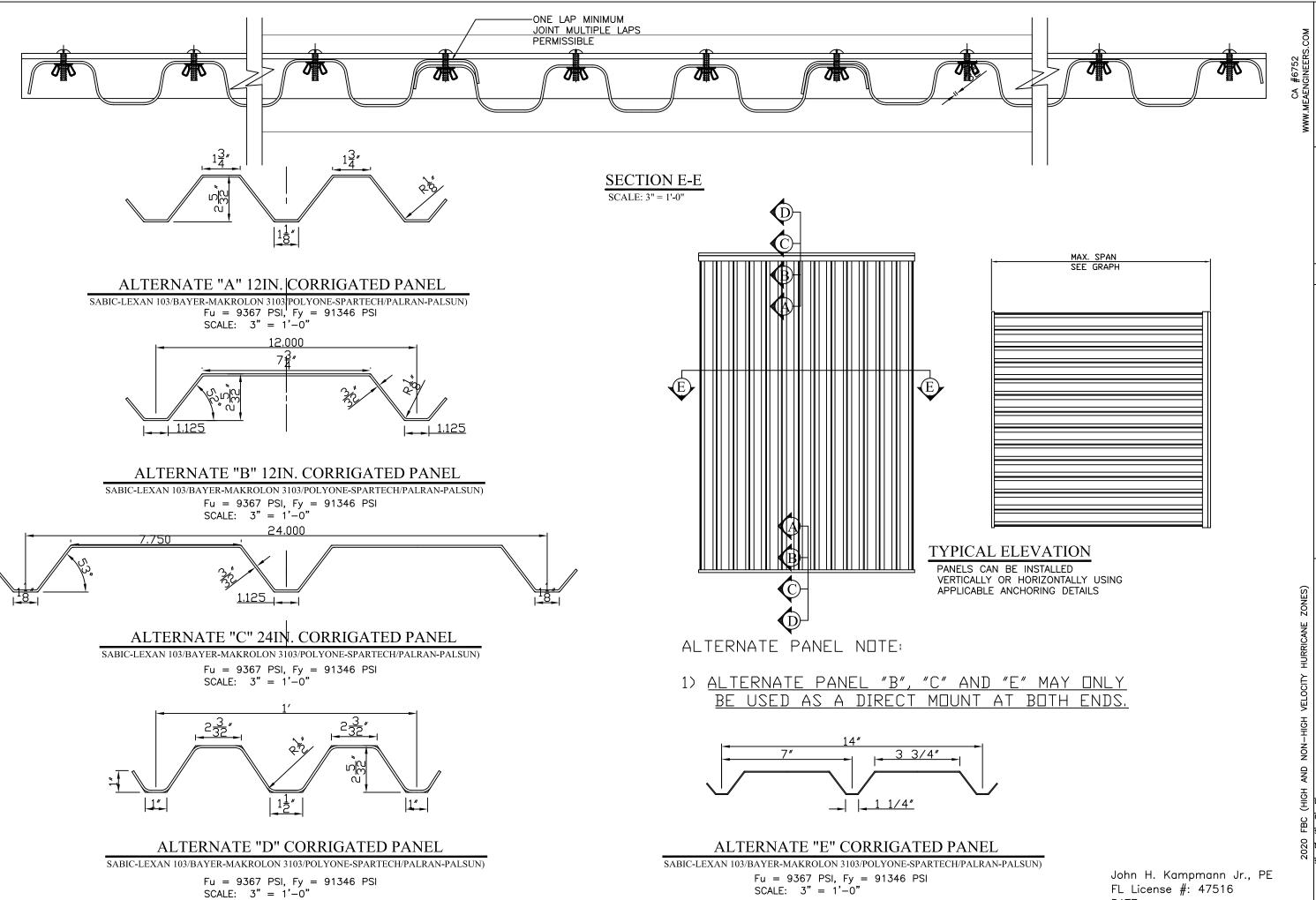
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+ NON-HVHZ

STORM PANEL SYSTEM CLEARTEK (HVHZ

roject #:20-050 NOTED 10/3/20

4/10



FL License #: 47516 DATE:

5/10

<sup>Project #:</sup>20-050 NOTED

10/3/20

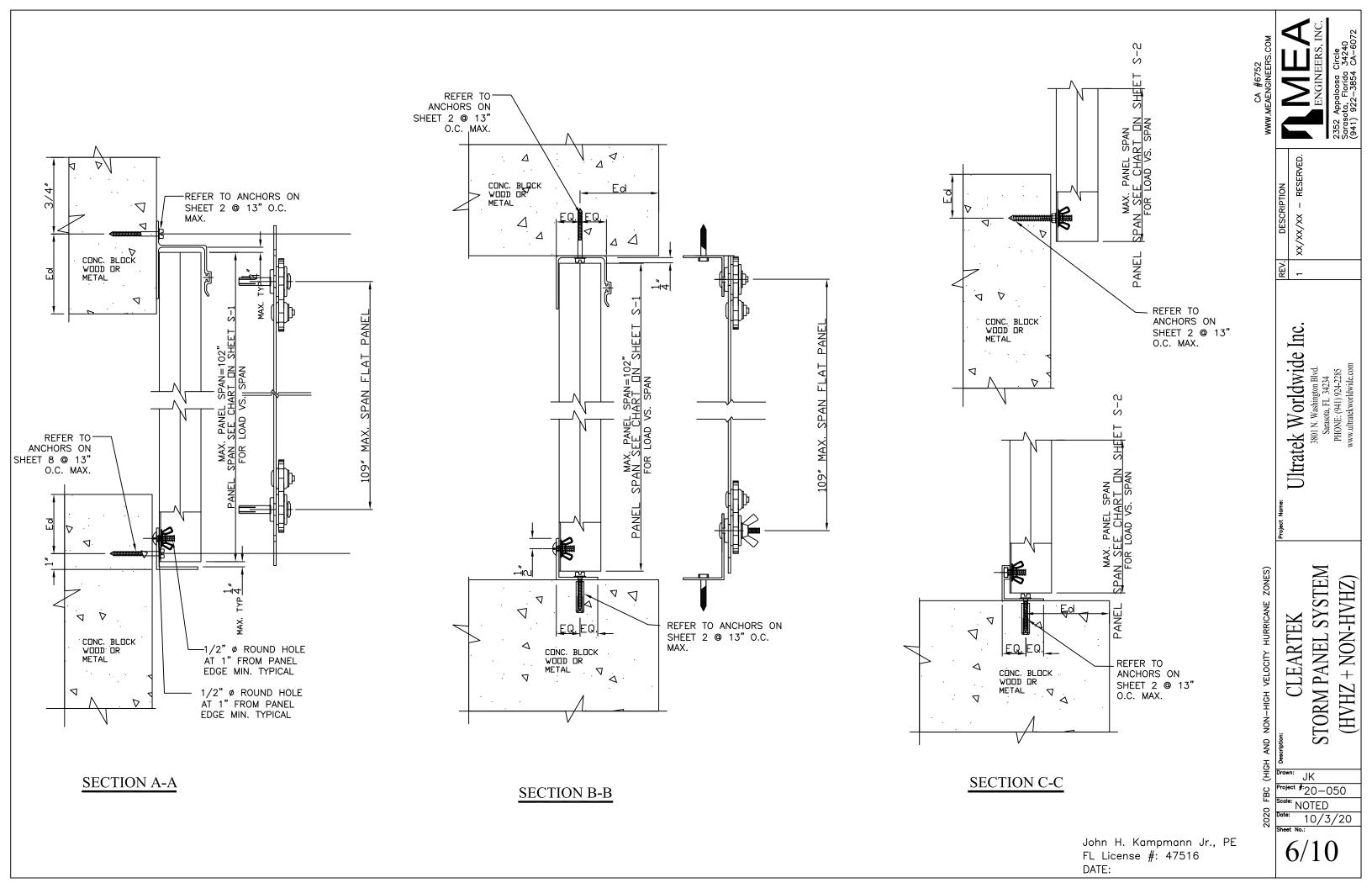
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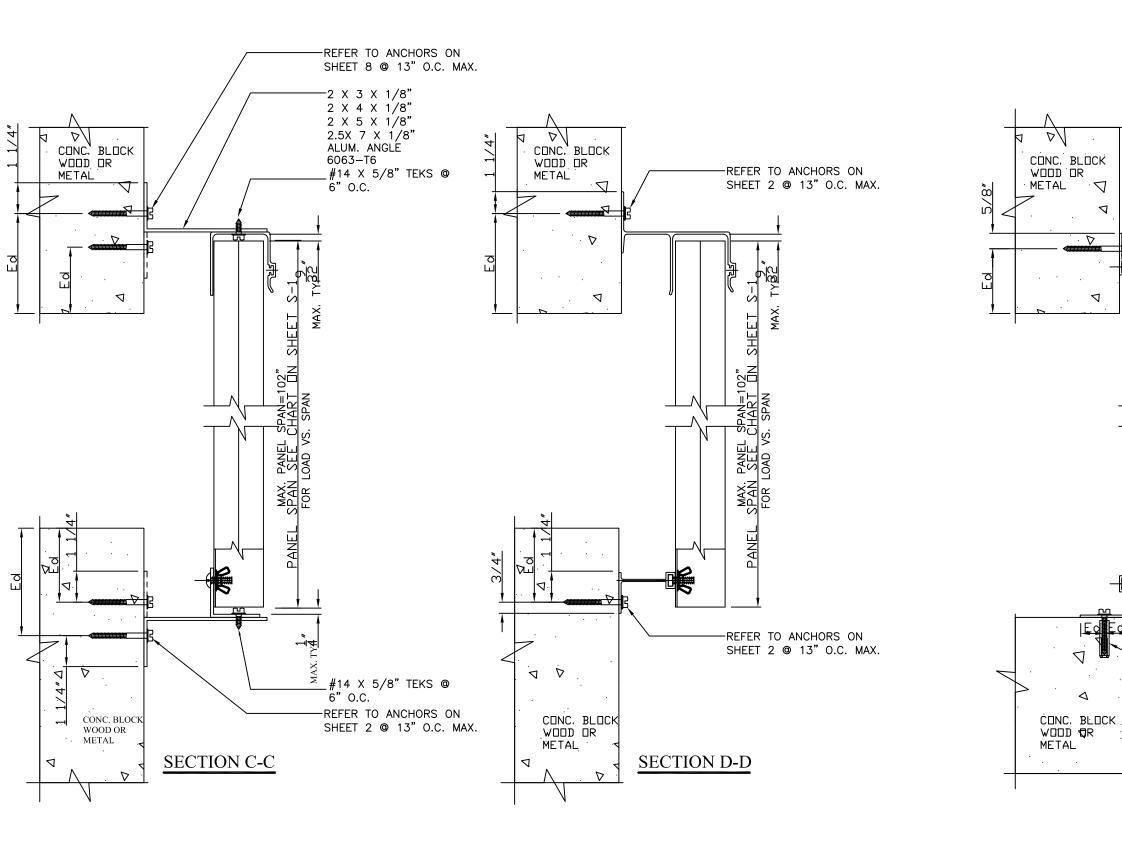
CLEARTEK

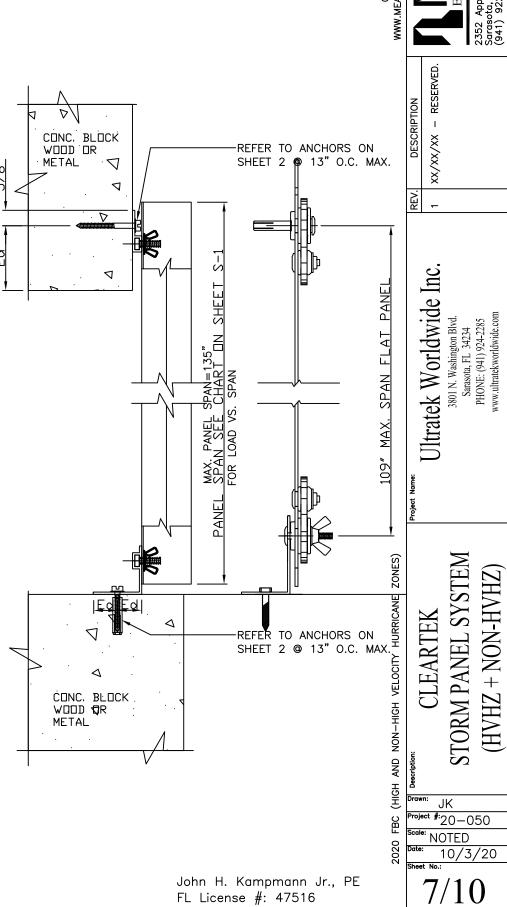
(HVHZ + NON-HVHZ

Ultratek Worldwide Inc.

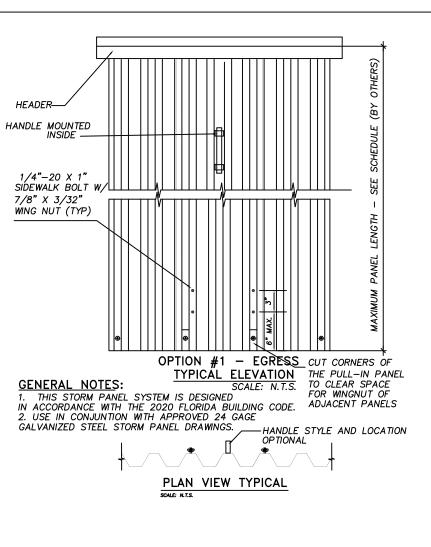
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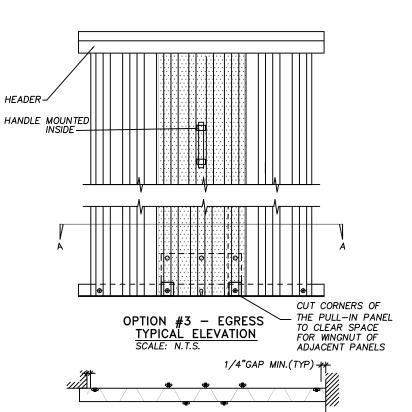






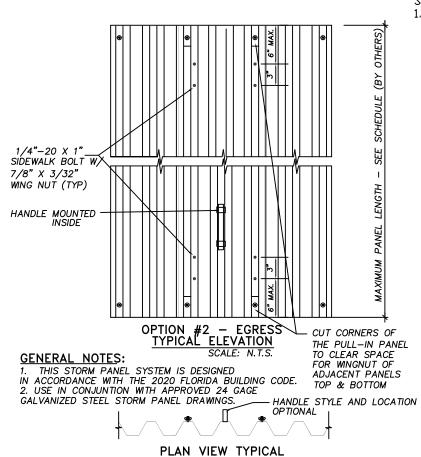
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GENERAL NOTES: SECTION A-A SCALE: N.T.S.

1. THIS STORM PANEL SYSTEM IS DESIGNED
IN ACCORDANCE WITH THE 2020 FLORIDA BUILDING CODE.
2. USE IN CONJUNTION WITH APPROVED 24 GAGE
GALVANIZED STEEL STORM PANEL DRAWINGS.
3. SEE THIS SHEET FOR ADDITIONAL INFORMATION



TAPCONS, OR CALK-IN ANCHORS

(SEE SCHEDULE FOR SPACING) (TYP)

POURED CONCRETE
REQUIRED (TYP)

TAPCONS, OR CALK-IN ANCHORS

POURED CONCRETE
REQUIRED (TYP)

TAPCONS, OR CALK-IN ANCHORS

POURED CONCRETE
REQUIRED (TYP)

TAPCONS, OR CALK-IN ANCHORS

TO CHARLES SCHEDULE FOR SPACING)

OPTION #3 — EGRESS

CEILING AND FLOOR

MOUNTING INSTALLATION

POURED CONCRETE
REQUIRED (TYP)

FOR ALIMANAM PLATE

TAPCONS, OR CALK-IN ANCHORS

OPTION #3 — EGRESS

OPTION #3 — EGRESS

WALL MOUNTING

NOTALLATION

SOME NIE

TO CORSES PAREIT HEADING

OPTION #3 — EGRESS

WALL MOUNTING

NOTALLATION

SOME NIE

TO CORSES PAREIT HEADING

OPTION #3 — EGRESS

WALL MOUNTING

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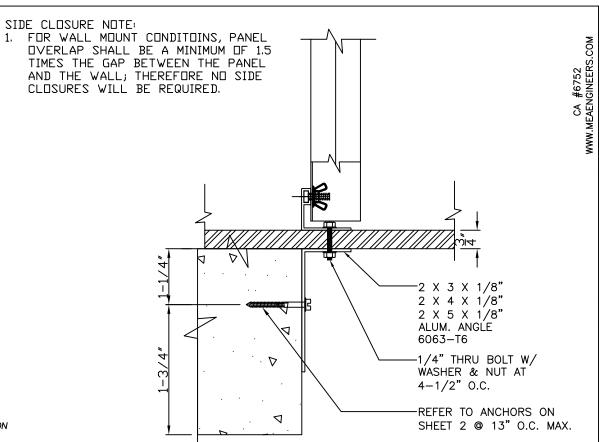
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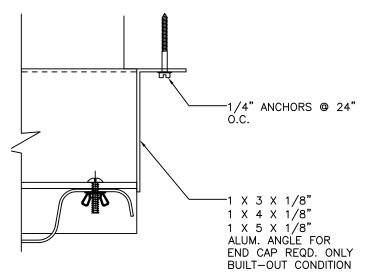
OPTION #3 — EGRESS

EGRESS PANEL @ 6: O.C. W/ 1/4"-20 NUT AT REAR



## COUNTER TOP CONDITION

SCALE: 3" = 1'-0"
(PASS THRU WINDOW)
MAX. SHUTTER HEIGHT=6 FT.



# END CAP BUILT-OUT CONDITION DETAIL 'A'

SCALE: 3" = 1'-0"

## Project #:20-050
| Scale: NOTED | Date: 10/3/20 |
| Sheet No.: | Project #:20 | Project #:20

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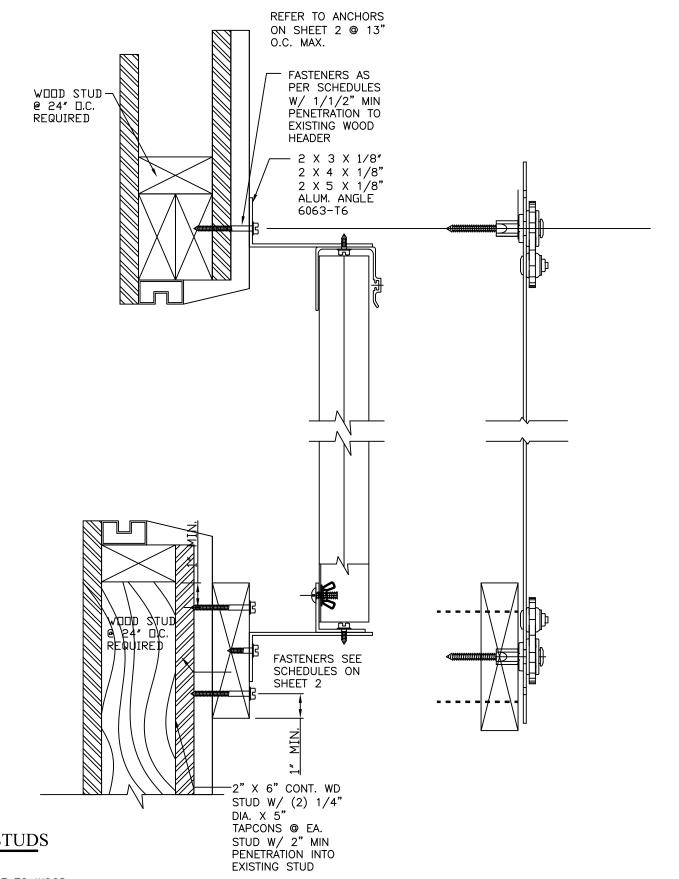
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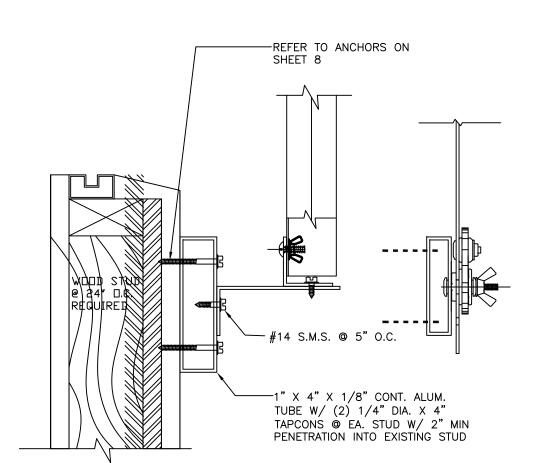
IM Ultrate

CLEARTEK STORM PANEL SYSTEM (HVHZ + NON-HVHZ)

STORN

8/10





INSTALLATION DETAILS ON EXISTING WOOD STUDS

ABOVE DETAILS SHOW CONNECTIONS OF 2X6 BUCK & 1X4 ALUM. TUBE TO WOOD STUDS TO PROVIDE A CONTINUOUS SURFACE FOR A SHUTTER INSTALLATION. FOR INSTALLATION DETAILS OF HEADER/SILL TO CONTINUOUS WOOD MEMBERS SEE SHEETS 6 THROUGH 9.

20 FBC (HIGH AND NON-HIGH VFLOCITY HURF

H AND NON-HIGH VELOCITY HURRICANE ZONES)

Description:

CLEARTEK

STORM PANEL SYSTEM

(ZHAH-NON+ZHAHZ)

Ultratek Worldwide Inc.

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Drawn: JK
Project #:20-050
Scale: NOTED
Date: 10/3/20
Sheet No:

9/10

John H. Kampmann Jr., PE FL License #: 47516 DATE:

