GENERAL NOTES:

1– POLYCARBONATE SKYLIGHT SYSTEM SHOWN ON THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE 2023 (8th EDITION) OF THE FLORIDA BUILDING CODE. THIS SKYLIGHT MAY BE INSTALLED AT HIGH VELOCITY HURRICANE ZONES (HVHZ) AND OUT OF THEM (NHVHZ), WITH ADDITIONAL LIMITATIONS AS PER GENERAL NOTE 2 BELOW.

DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTIONS 1620 (HVHZ) & 1609 (NHVHZ) OF THE ABOVE MENTIONED CODE, FOR A BASIC WIND SPEED AS REQUIRED BY THE JURISDICTION WHERE THIS PRODUCT TO BE INSTALLED FOR A DIRECTIONALITY FACTOR Kd=0.85, USING ASCE 7–22 & SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON NOTE 2.

IN ORDER TO VERIFY THE ABOVE CONDITION, ULTIMATE DESIGN WIND LOADS DETERMINED PER ASCE 7–22 SHALL BE FIRST REDUCED TO A.S.D. DESIGN WIND LOADS BY MULTIPLYING THEM BY 0.6 IN ORDER TO COMPARE THESE W/ MAX. (A.S.D) DESIGN PRESSURE RATINGS INDICATED ON NOTE 2.

IN ORDER TO VERIFY THAT ANCHORS ON THIS P.E.D., AS TESTED, WERE NOT OVERSTRESSED, A 33% INCREASE IN ALLOWABLE STRESS FOR WIND LOADS WAS NOT USED IN THEIR ANALYSIS. FASTENERS SPACING TO WOOD HAS BEEN DETERMINED IN ACCORDANCE WITH N.D.S. 2018.

2– MAX. A.S.D. DESIGN PRESSURE RATING (p.s.f) & TEST REPORTS THAT QUALIFIED PRODUCT
+75,–75 p.s.f
TEST REPORTS USED TO QUALIFY PRODUCT
UNIFORM STATIC WIND PRESSURE
LAB. NAME: AMERICAN TEST LAB OF SOUTH FL.
REPORT #: ATLSF 0526.01–23

TESTING AS PER SECTIONS 1625 & 1609 OF THE FLORIDA BUILDING CODE, PER PROTOCOLS TAS 202, PER INDICATED LABORATORY REPORT AND AS PER SUBMITTED STRUCTURAL CALCULATIONS, PERFORMED AS PER SECTIONS 1616 & 1604 OF THE FLORIDA BUILDING CODE.

THIS PRODUCT HAS NOT BEEN TESTED FOR WATER, AIR INFILTRATION AND IMPACT RESISTANCE, AND SHALL ONLY BE INSTALLED AS PART OF AN OPEN CANOPY ROOF OR STRUCTURE.

3– STRUCTURAL ADEQUACY OF SUPPORTING STRUCTURAL MEMBERS (CURB) IS NOT PART OF THIS P.E.D. STRUCTURAL DESIGN OF THE STRUCTURE THAT WILL PROVIDE SUPPORT TO THIS SKYLIGHT SHALL BE PERFORMED BY THE STRUCTURAL ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT. STRUCTURAL DESIGN SHALL INCLUDE AND TAKE INTO CONSIDERATION THE ACTUAL Vy LOADS TRANSFERRED FROM THIS SKYLIGHT TO THE SUPPORT STRUCTURE BASED ON DEAD, LIVE & WIND LOADS AND USING THE LOAD COMBINATIONS OF A.S.C.E. 7 STANDARD. ADEQUACY OF SUPPORTING STRUCTURAL MEMBERS SHALL BE REVIEWED BY THE STRUCTURAL PLANS EXAMINER OF THE CORRESPONDING BUILDING DEPARTMENT ON A JOB SPECIFIC BASIS.

4– ALL ALUMINUM EXTRUSIONS SHALL BE ALUMINUM ASSOCIATION ALLOY AND TEMPER AS SHOWN ON SHEET 2.

5– ALL SCREWS TO BE AS SHOWN ON BILL OF MATERIALS ON SHEET 2 AND SHALL COMPLY WITH FLORIDA BUILDING CODE SECTION 2411.3.3.4.

6– SKYLIGHT SYSTEM SHALL COMPRISE ALL COMPONENTS DESCRIBED ON BILL OF MATERIALS SHEET 2.

7– GLAZING MATERIAL: SEE BILL OF MATERIALS ON SHEET 2 AND DETAILS ON SHEET 4.

8– ALL WELDING TO CONFORM TO THE AMERICAN WELDING SOCIETY A.W.S. D1.2 STANDARD. USE CERTIFIED WELDERS. USE ER–4043 ELECTRODES.

9– ALUMINUM MEMBERS IN CONTACT WITH DISSIMILAR MATERIALS SHALL COMPLY WITH SECTION III–6 OF THE 2020 ALUMINUM DESIGN MANUAL.

10– SKYLIGHT SHALL COMPLY WITH SECTIONS 2405 & 2610 ON THE FLORIDA BUILDING CODE

11– PAINT, FINISH AND COLOR TO BE SELECTED BY ARCHITECT OF RECORD OR OWNER OF PREMISES FOR THE JOB IN COORDINATION W/ SKYLIGHT CONCEPTS, AND SHALL COMPLY WITH AAMA 1600 SPECIFICATION, SECTION 3.11.

12– IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE SOUNDNESS OF THE STRUCTURE WHERE THE SKYLIGHT IS TO BE ATTACHED TO INSURE PROPER ANCHORAGE. SEE NOTE 3 ABOVE.
CONTRACTOR IS TO SEAL/CAULK ALL SKYLIGHT COMPONENT EDGES AS INDICATED ON THIS DRAWING AND AT FASTENERS TO PREVENT WIND/RAIN INTRUSION.

13– SKYLIGHT INSTALLATION SHALL COMPLY WITH SPECS INDICATED IN THIS DRAWING PLUS ANY BUILDING AND ZONING REGULATIONS PROVIDED BY THE JURISDICTION WHERE PERMIT IS APPLIED.

14– (a) THIS P.E.D. (PRODUCT EVALUATION DOCUMENT) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT.

(b) CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION INCLUDING LIFE SAFETY OF THIS PRODUCT, BASED ON THIS P.E.D., PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR'S RESPONSIBILITY.

(c) THIS P.E.D. WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.

(d) SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE PROFESSIONAL OF RECORD (P.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D.
PROFESSIONAL OF RECORD, ACTING AS DELEGATED ENGINEER TO THE P.E.D. ENGINEER, SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.

(e) ORIGINAL P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

15– PRODUCT MANUFACTURER'S LABEL SHALL BE PLACED ON AN EXPOSED SURFACE OF SKYLIGHT IN ACCORDANCE W/ SECTION 1703.5 OF THE FLORIDA BUILDING CODE. ONE LABEL SHALL BE PLACED FOR EVERY OPENING.

THIS DRAWING SHALL ONLY BE USED TO OBTAIN PERMITS IN THE STATE OF FLORIDA

FLORIDA BUILDING CODE (High & Non High Velocity Hurricane Zone)

POLYCARBONATE DOME SKYLIGHT.

DRAWN BY: Y.M.

08/25/2023 DATE

23–192 DRAWING No

SHEET 1 OF 6

SKYLIGHT CONCEPTS, INC.
2743 NW 30TH AVENUE
LAUDERDALE LAKES, FL 33311
PHONE: 954–776–7616
WWW.SKYLIGHTCONCEPTS.COM

REV. NO	DESCRIPTION	DATE
1	OLD 23–028	8/25/23
2		
3		
4		

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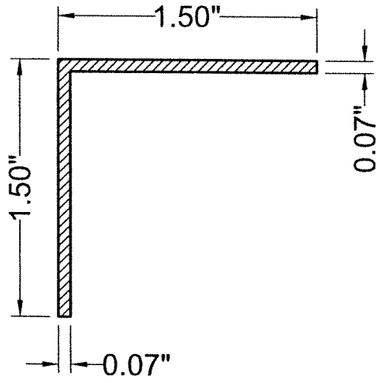
CA–0006719
WALTER A. TILLIT JR., P.E.
FLORIDA Lic. 44167

P.E. SEAL/SIGNATURE/DATE

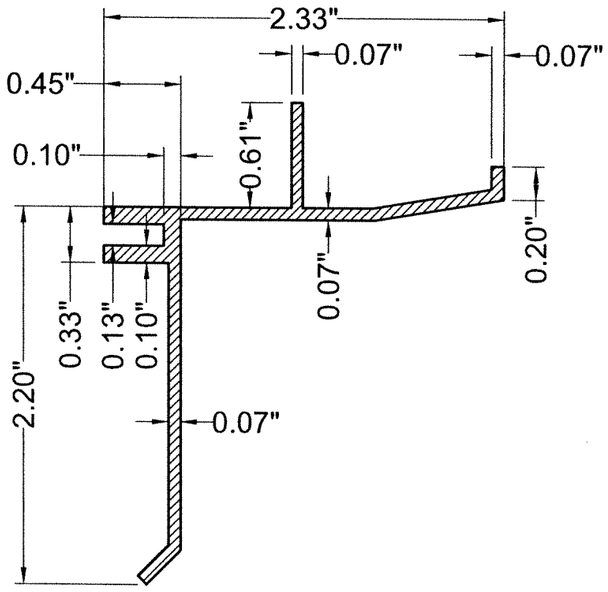
WALTER A. TILLIT JR LICENSE No. 44167 STATE OF FLORIDA PROFESSIONAL ENGINEER

BILL OF MATERIALS

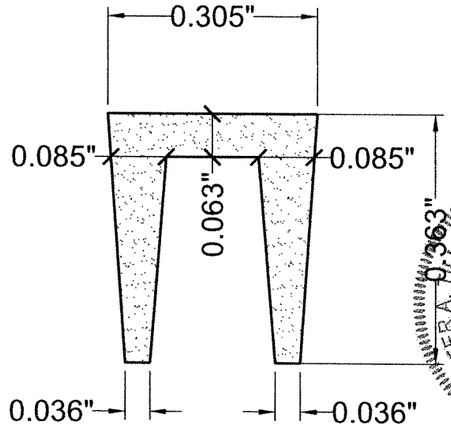
COMPONENT. No.	DESCRIPTION	DIMENSIONS	MATERIALS	MANUFACTURER	NOTES
(1)	995 STRUCTURAL SILICONE	–	SILICONE	DOWSIL	LOCATED BETWEEN (5) & (8). 1 5/16"MIN. GLASS BITE
(2)	FASTENER	#10X1" HWHSD	STAINLESS STEEL WITH NEOPRENE WASHER	ITW/BUILDEX	2 ½" FROM EACH CORNER & 10" MAX O.C THEREAFTER
(3)	FASTENER	#10x3/8" HWHSMS	STAINLESS STEEL	ITW/BUILDEX	3 ½" FROM EACH CORNER & 10" MAX O.C THEREAFTER
(4A)	ANCHOR FOR WOOD	1/4"Ø HH LAG SCREW	COATED STEEL	–	ATTACH (6) TO EXISTING WOOD STRUCTURE/CURB. SEE SHEET 6 FOR SPECS AND SPACING.
(4B)	ANCHOR FOR ALUMINUM OR STEEL	1/4"Ø DRILL FLEX	GRADE 5 SILVER STALGARD COATING	DEWALT	ATTACH (6) TO EXISTING ALUMINUM OR STEEL STRUCTURE/CURB. SEE SHEET 6 FOR SPECS AND SPACING.
(4C)	ANCHOR FOR CONCRETE	1/4"Ø ULTRACON	GRADE 5 SILVER STALGARD COATING	DEWALT	ATTACH (6) TO EXISTING CONCRETE STRUCTURE/CURB.SEE SHEET 6 FOR SPECS AND SPACING.
(5)	ALUMINUM RETAINING ANGLE	SEE COMPONENT DETAIL	6063–T5 ALLOY	–	CONNECT W/ (2) TO (8) & CONNECT W/ (3) TO (6)
(6)	ALUMINUM BASE FRAME	SEE COMPONENT DETAIL	6063–T5 ALLOY	–	CONNECT W/ (4A), (4B), (4C) TO EXIST. STRUCTURE CURB.
(7)	SANTOPRENE GASKET 101–64–TPV.	SEE COMPONENT DETAIL	THERMOPLASTIC VULCANIZATE. 70 SHORE A HARDNESS	CELANESE	LOCATED BETWEET (8) & (6). FITS IN (6)
(8)	POLYCARBONATE SHEET	0.118" THICK GE LEXAN XL–102UV	POLYCARBONATE	SABIC	LOCATED BETWEEN (5) & (7) BEARS A MIAMI DADE COUNTY NOA.
(9)	EXTERIOR GREY SEALANT	–	SILICONE SEALANT.	SIKA	USE AT HEAD OF (2),(3) & (4A)–(4B)–(4C) AND AS BED FOR (6) (CONT.)



5 ALUMINUM RETAINING ANGLE (CONT.)



6 ALUMINUM BASE FRAME (CONT.)



7 SANTOPRENE GASKET (CONT.)

FLORIDA BUILDING CODE (High & Non High Velocity Hurricane Zone)

DRAWN BY: Y.M.

08/25/2023 DATE

23–192 DRAWING No

SHEET 2 OF 6

POLYCARBONATE DOME SKYLIGHT.

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LAUDERDALE LAKES, FL 33311
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REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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FLORIDA Lic. 44167

08/25/2023

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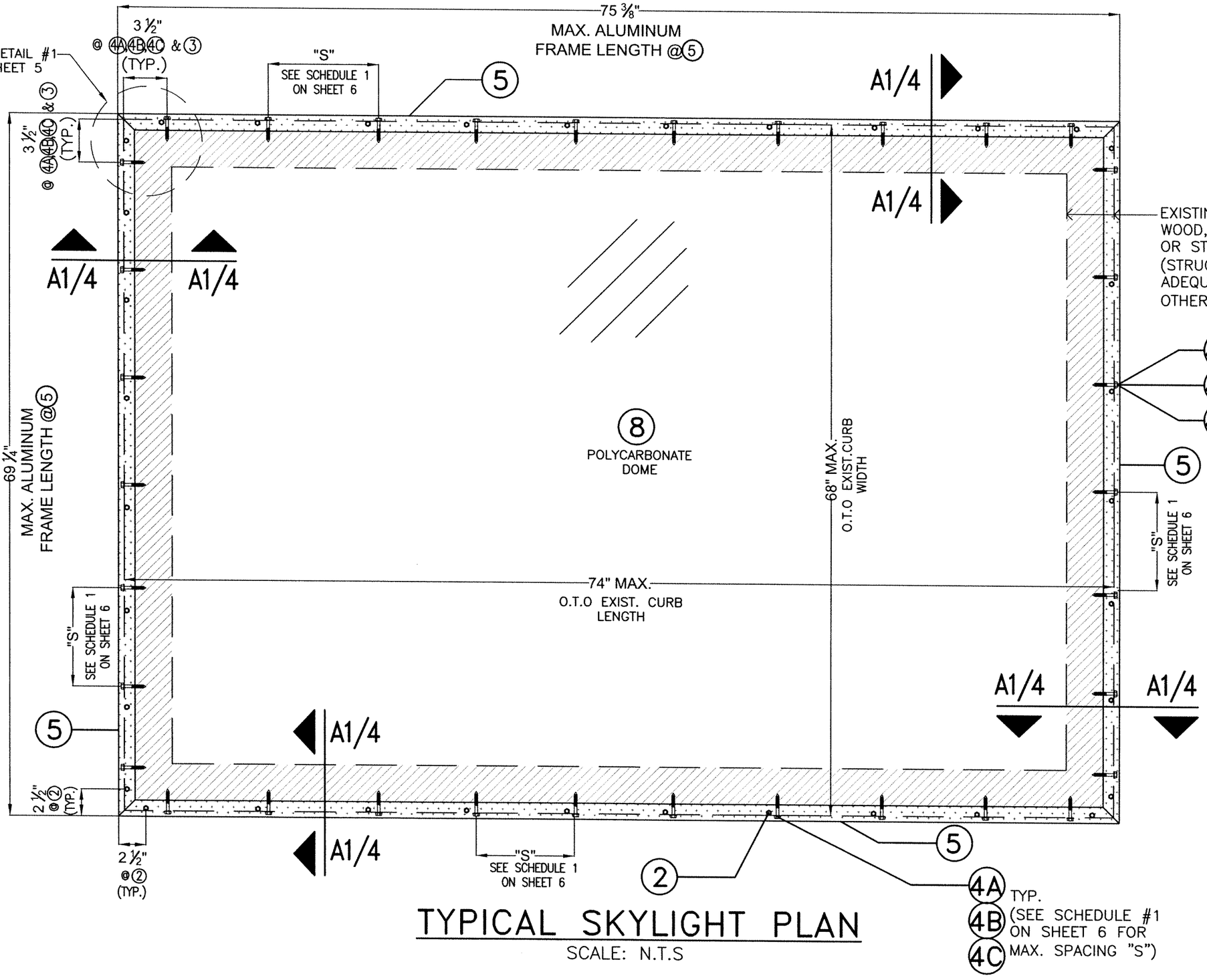

TYPICAL SKYLIGHT PLAN

SCALE: N.T.S

FLORIDA BUILDING CODE (High & Non High Velocity Hurricane Zone)

POLYCARBONATE DOME
SKYLIGHT.

DRAWN BY: Y.M.
08/25/2023 DATE
23-192 DRAWING No
SHEET 3 OF 6

REV. NO	DESCRIPTION	DATE
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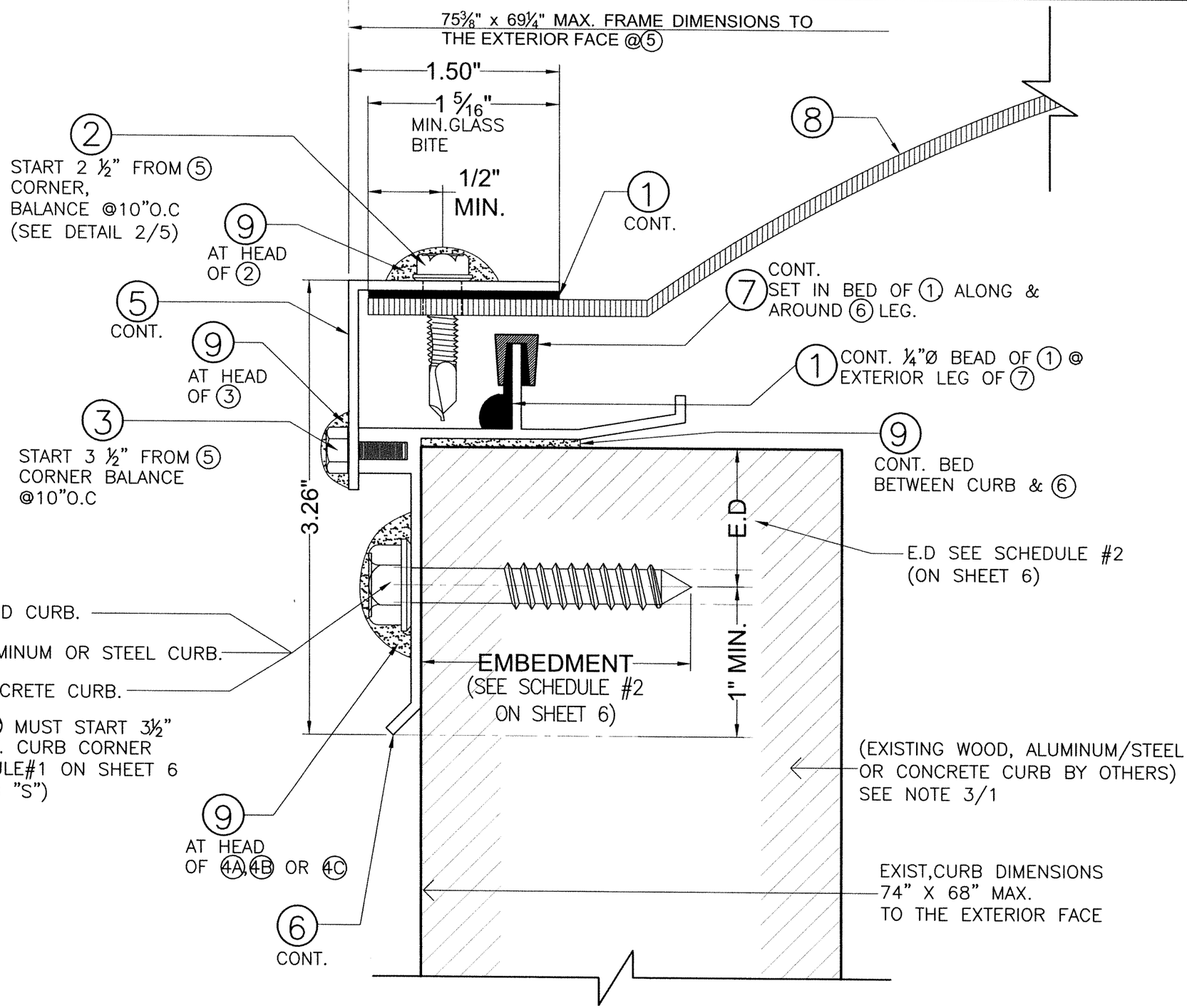

SECTION A1–A1

SCALE: N.T.S

FLORIDA BUILDING CODE (High & Non High Velocity Hurricane Zone)

POLYCARBONATE DOME SKYLIGHT.

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23–192 DRAWING No

SHEET 4 OF 6

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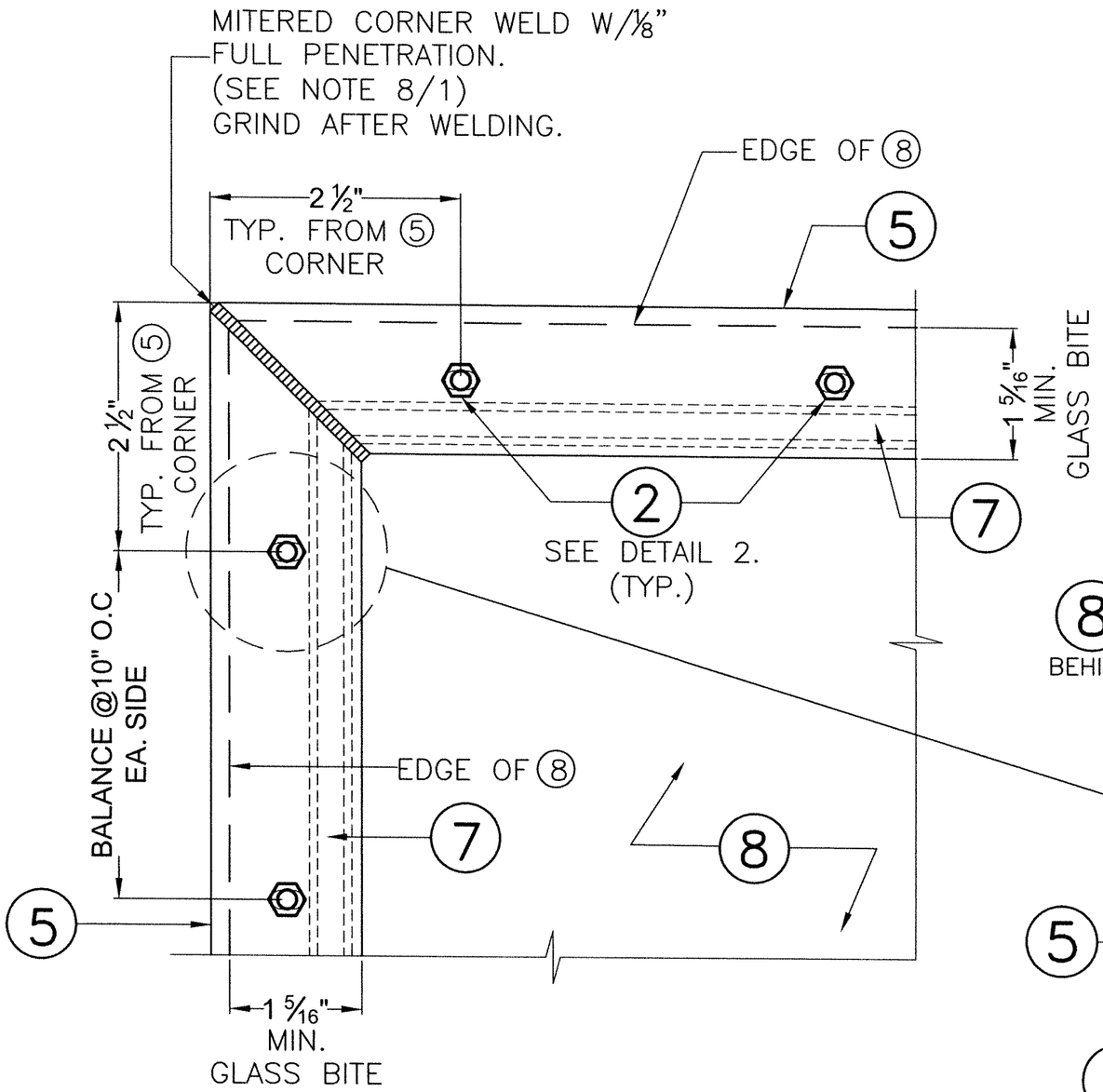
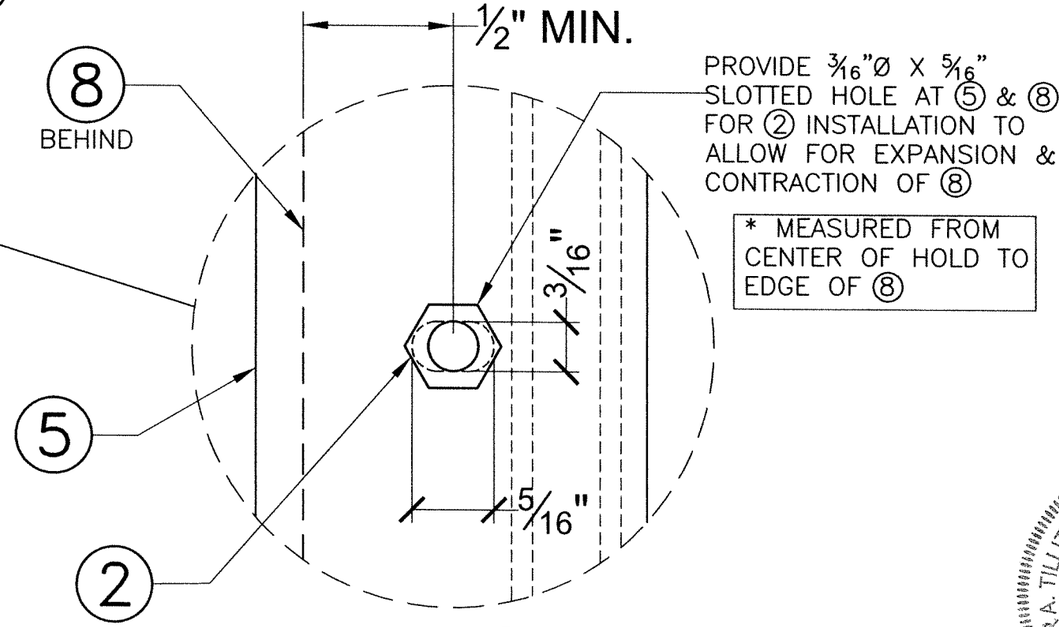


DETAIL 1 @ ⑤, ⑧ & ② (PLAN)

SCALE: N.T.S



DETAIL 2 @ ⑤, ⑧ & ② EXPANSION / CONTRACTION

SCALE: N.T.S

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SCHEDULE #1			
MAX ANCHOR (4A) (4B) & (4C) SPACING "S" FOR A GIVEN CURB MATERIAL			
WOOD	ALUMINUM	STEEL	CONCRETE
8" O.C @ (4A)	10" O.C @ (4B)	10" O.C @ (4B)	10" O.C @ (4C)

SCHEDULE #2: ADDITIONAL ANCHORS SPECS			
COMP.#	EXISTING CURB MATERIAL	EDGE DISTANCE (E.D)	EMBEDMENT
(4A)	G=0.55" WOOD (2 X MIN.)	1"	1 ½"
(4B)	⅛" ALUMINUM (Fy=16 Ksi) OR ⅛" STEEL (Fy=33 Ksi)	¾"	3 THREADS PASSED PROFILE THICKNESS
(4C)	f'c=3Ksi CONCRETE	2 ½"	1 ¾"

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