

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED PER NEW CODE	02/20/2024	R.L.

NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE.
2. WOOD FRAMING AND MASONRY OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING AND MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
3. WHERE SHIM OR BUCK THICKNESS IS LESS THAN 1-1/2" UNITS MUST BE ANCHORED THROUGH THE FRAME IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS. ANCHORS SHALL BE SECURELY FASTENED DIRECTLY INTO MASONRY, CONCRETE OR OTHER STRUCTURAL SUBSTRATE MATERIAL.
4. WHERE WOOD BUCK THICKNESS IS 1-1/2" OR GREATER, BUCK SHALL BE SECURELY FASTENED TO MASONRY, CONCRETE OR OTHER STRUCTURAL SUBSTRATE. UNITS MAY BE ANCHORED THROUGH FRAME TO SECURED WOOD BUCK IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS.
5. WHERE 1X BUCK IS NOT USED DISSIMILAR MATERIALS MUST BE SEPARATED WITH APPROVED COATING OR MEMBRANE. SELECTION OF COATING OR MEMBRANE IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
6. BUCKS SHALL EXTEND BEYOND UNIT FRAME INTERIOR FACE SO THAT FULL FRAME SUPPORT IS PROVIDED.
7. SHIM AS REQUIRED AT EACH ANCHOR LOCATION WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4".
8. SHIMS SHALL BE LOCATED, APPLIED AND MADE FROM MATERIALS AND THICKNESS CAPABLE OF SUSTAINING APPLICABLE LOADS.
9. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
10. FRAME MATERIAL: ALUMINUM 6063-T6.
11. UNITS MUST BE GLAZED PER ASTM E1300, SEE SHEET 6 FOR GLASS DETAILS.
12. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.

13. FOR ANCHORING UNITS TO C-CHANNEL CURB USE 1/2-13 X 2" HH BOLT WITH FLAT WASHER ON BOTH SIDES WITH 7/8" MINIMUM EDGE DISTANCE, LOCK WASHER AND NUT. LOCATE ANCHORS AS SHOWN IN INSTALLATION DETAILS. C-CHANNEL MUST BE C4 X 5.4 PER ASTM A36 MINIMUM.
14. FOR ANCHORING UNITS TO METAL SUBSTRATE CURB USE 1/2-13" HH BOLT WITH FLAT WASHER AND LOCK WASHER WITH SUFFICIENT LENGTH TO ACHIEVE A PROTRUSION OF A LEAT THREE THREADS BEYOND THE SUBSTRATE SURFACE WITH 7/8" MINIMUM EDGE DISTANCE. SUBSTRATE MUST BE AT LEAST 5/16" THICK PER ASTM A36 MINIMUM.
15. FOR ANCHORING UNIT TO WOOD FRAMING CURB USE 1/2" LAG BOLTS WITH FLAT WASHER AND LOCK WASHER WITH SUFFICIENT LENGTH TO ACHIEVE A 3" MINIMUM EMBEDMENT WITH 2" MINIMUM EDGE DISTANCE. WOOD FRAMING MUST HAVE A MINIMUM SPECIFIC GRAVITY G .50
16. FOR ANCHORING UNITS TO CONCRETE CURB USE 1/2" POWER BOLTS WITH FLAT WASHER AND SUFFICIENT LENGTH TO ACHIEVE A 2 1/2" MINIMUM EMBEDMENT AND 6" MINIMUM EDGE DISTANCE. CONCRETE MUST HAVE 2,000 PSI MINIMUM COMPRESSIVE STRENGTH.
17. FOR ANCHORING UNITS TO CONCRETE CURB USE 1/2" SLEEVE ANCHOR WITH SUFFICIENT LENGTH TO ACHIEVE A 1 7/8" MINIMUM EMBEDMENT AND 3" MINIMUM EDGE DISTANCE. CONCRETE MUST HAVE 2,000 PSI MINIMUM COMPRESSIVE STRENGTH.
18. ALL FASTENERS TO BE CORROSION RESISTANT.
19. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BELOW:
 - 19.1. WOOD: MINIMUM SPECIFIC GRAVITY OF G=0.50
 - 19.2. CONCRETE: MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI.
 - 19.3. MASONRY: HOLLOW/FILLED BLOCK PER ASTM C90 WITH Fm=2,000PSI MINIMUM.
 - 19.4. METAL STRUCTURE: STEEL 5/16" THICK FY=33KSI/FU=52KSI
21. UNITS MAY BE ASSEMBLED TOGETHER TO FROM VARIOUS SHAPES AND CONFIGURATIONS. THESE ASSEMBLIES REQUIRE FURTHER ENGINEERING ANALYSIS BY A LICENSED PROFESSIONAL, REFER TO SHEET 7-11 FOR CONFIGURATIONS SAMPLES.
22. UNITS MUST BE INSTALLED WITH A 14' MINIMUM SLOPE.

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12 - 14	OPTIONAL INSTALLATION DETAILS

ACURLITE STRUCTURAL SKYLIGHTS
1017 N. VINE ST.
BERWICK, PA 18603

4' X 8' HURRICANE SKYLIGHT
FIXED
NOTES

DRAWN:
R.L.

DWG NO.
08-00098

REV
D

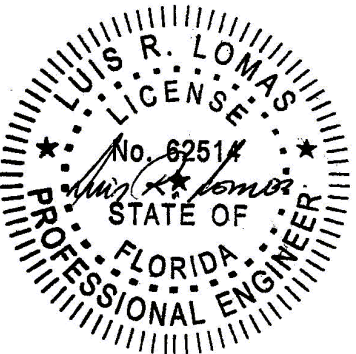
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DATE 03/19/07

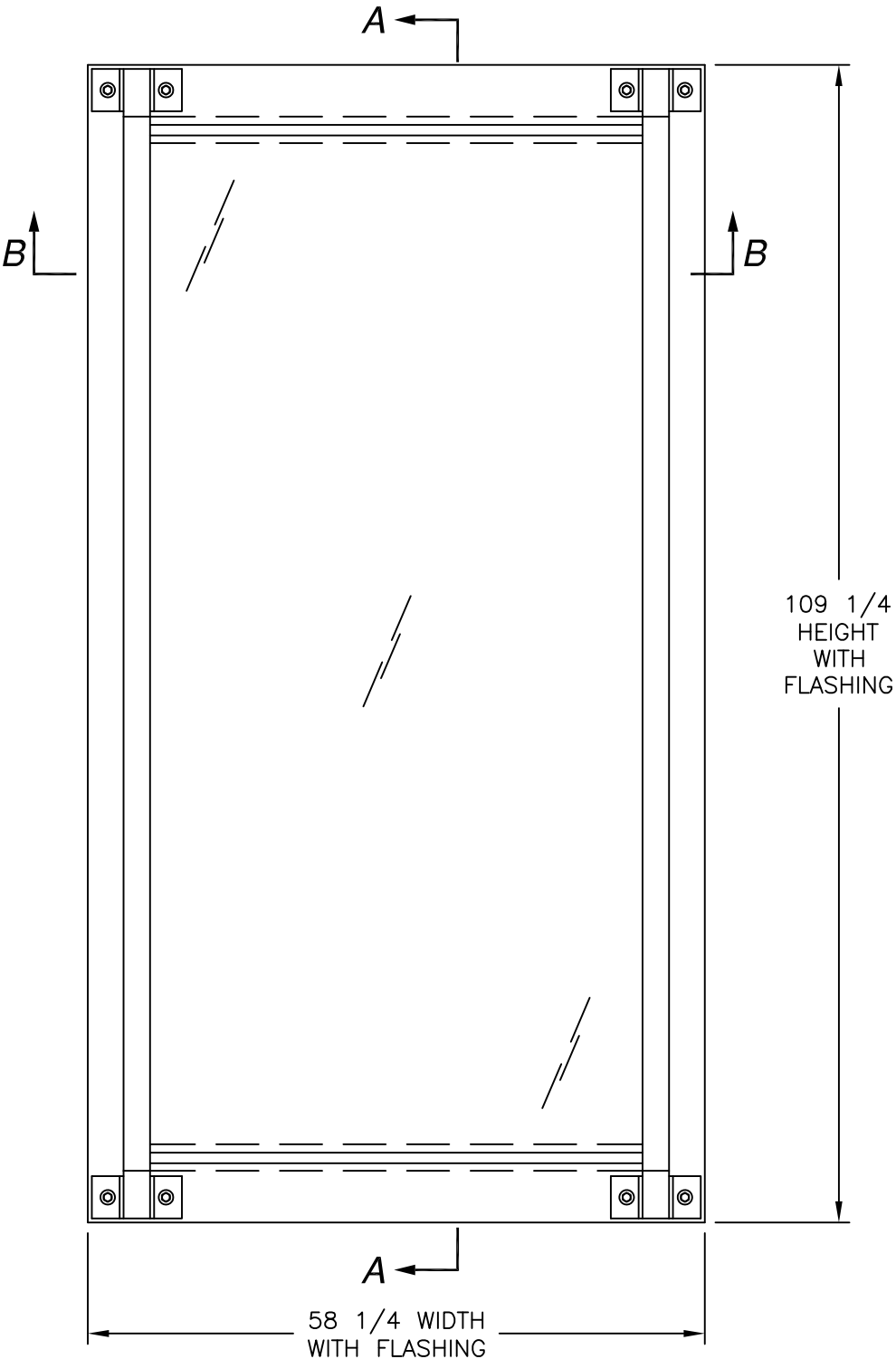
SHEET 1 OF 14

L. ROBERTO LOMAS P.E.
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SIGNED: 03/11/2024



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FL No.: 62514



4'x8' SKYLIGHT
SEE SHEET 6 FOR APPROVED CONFIGURATIONS
EXTERIOR VIEW

DESIGN PRESSURE RATING	IMPACT RATING
±75PSF	LARGE MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4

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ACURLITE STRUCTURAL SKYLIGHTS
1017 N. VINE ST.
BERWICK, PA 18603

4' X 8' HURRICANE SKYLIGHT
FIXED
ELEVATION

DRAWN:
R.L.

DWG NO.
08-00098

REV
D

SCALE NTS

DATE 03/19/07

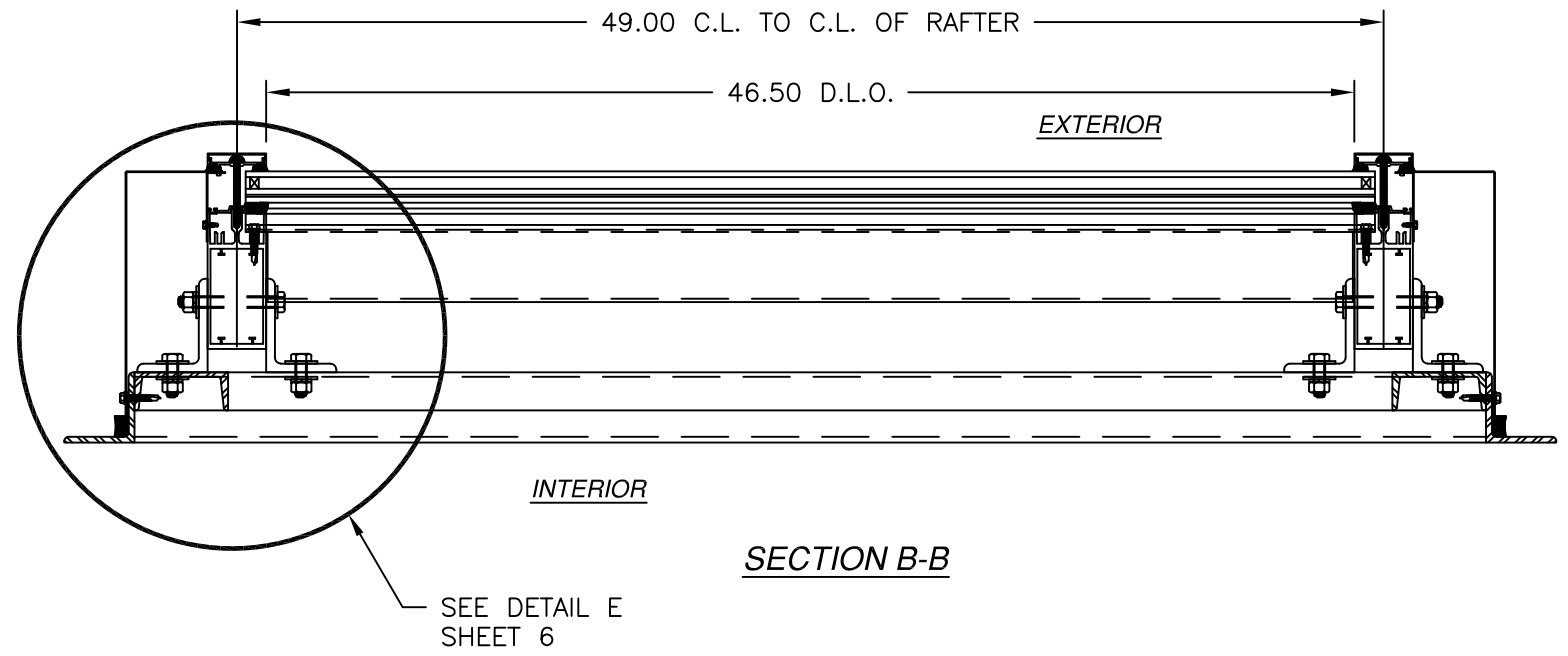
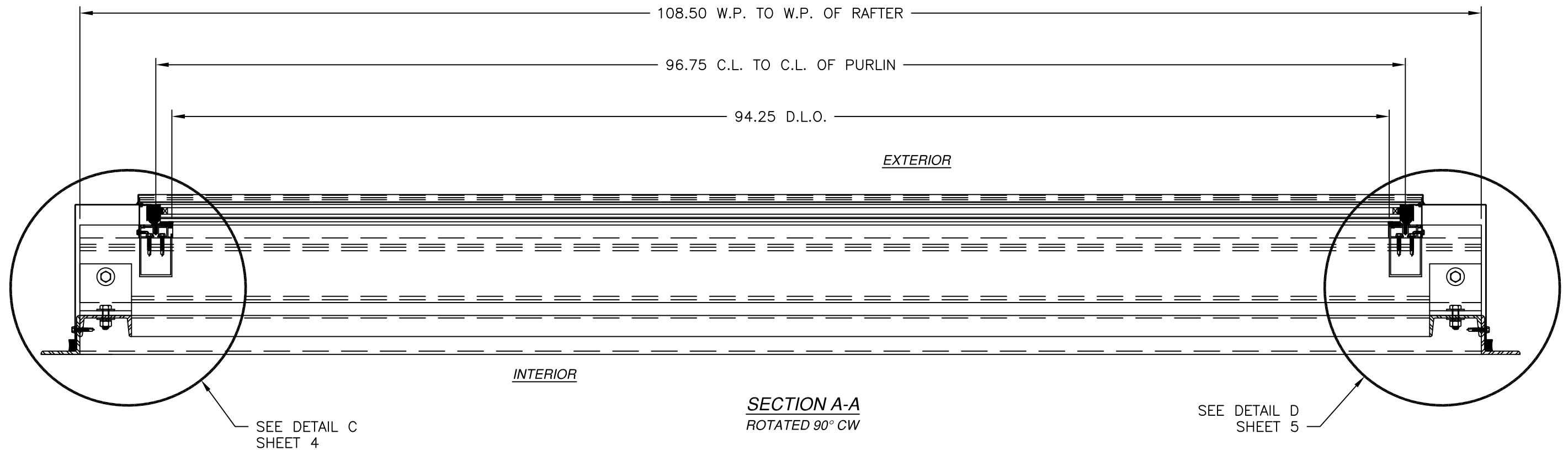
SHEET 2 OF 14

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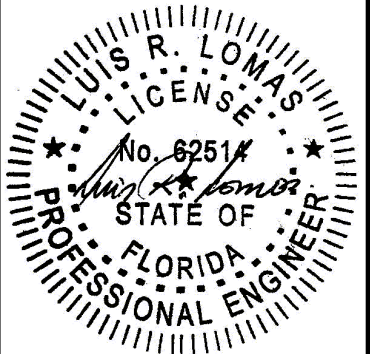
ACURLITE STRUCTURAL SKYLIGHTS
1017 N. VINE ST.
BERWICK, PA 18603

4' X 8' HURRICANE SKYLIGHT
FIXED
CROSS SECTIONS

DRAWN: R.L.	DWG NO. 08-00098	REV D
SCALE NTS	DATE 03/19/07	SHEET 3 OF 14

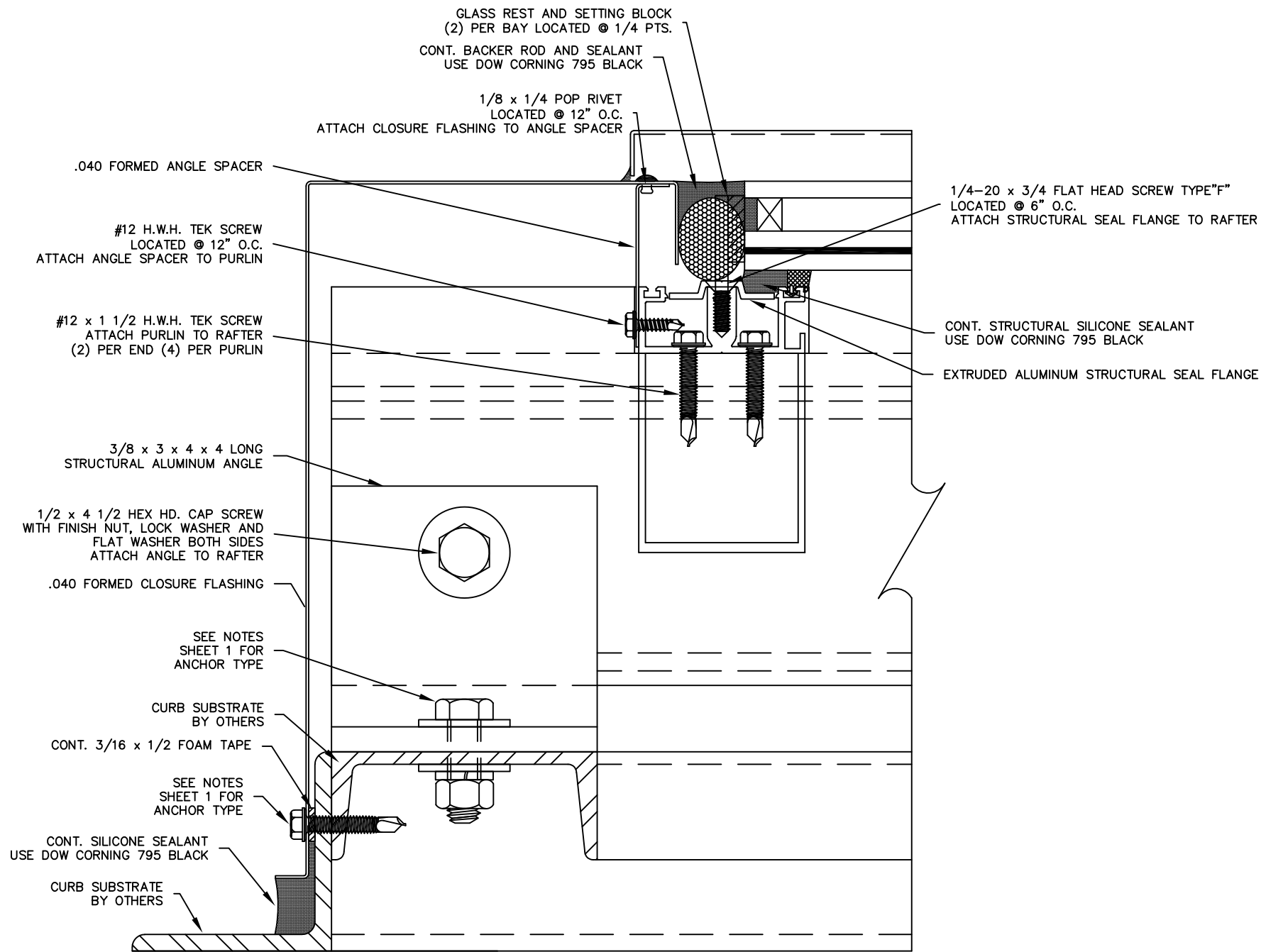
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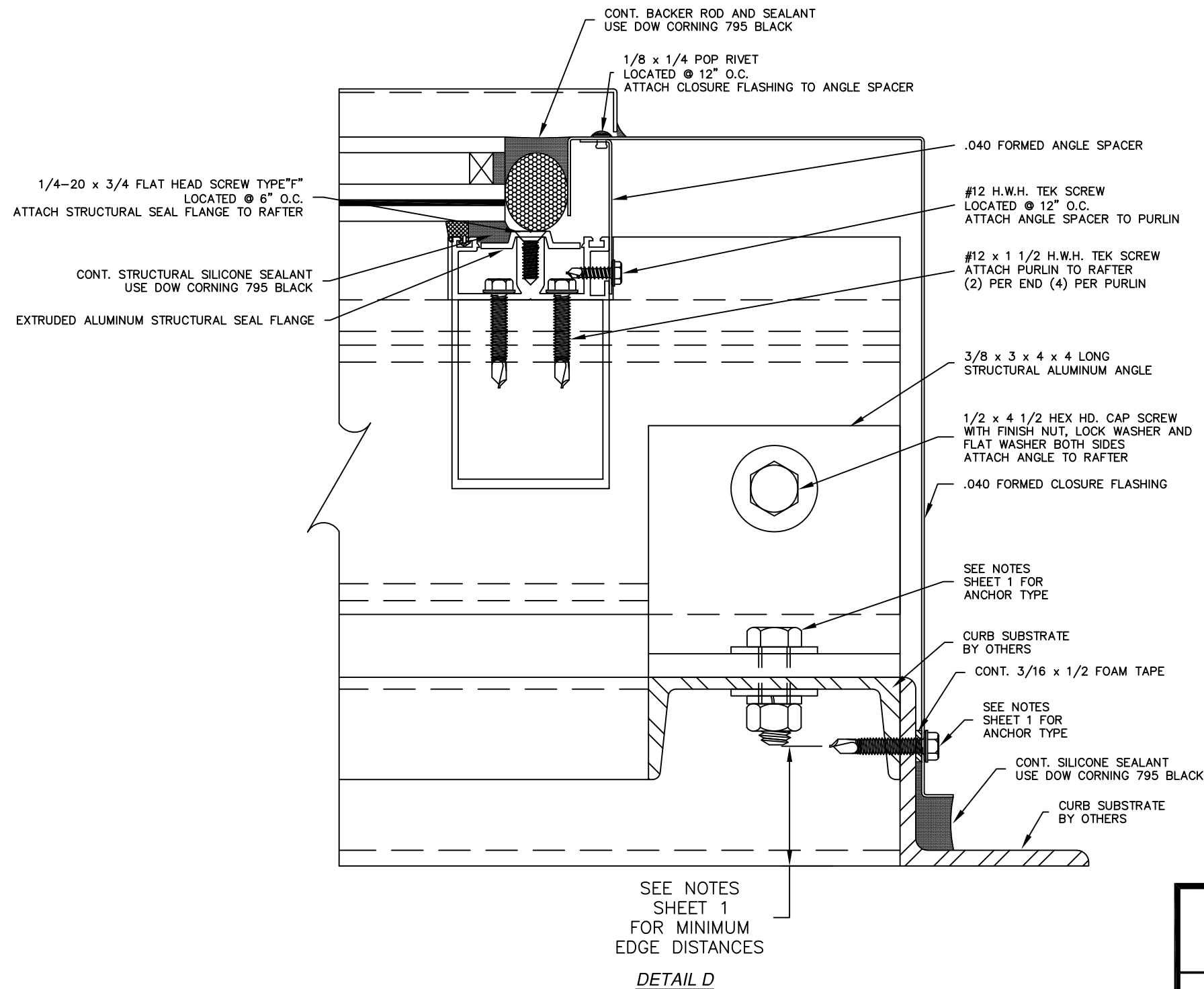
DETAIL C

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ACURLITE STRUCTURAL SKYLIGHTS 1017 N. VINE ST. BERWICK, PA 18603		
4' X 8' HURRICANE SKYLIGHT FIXED INSTALLATION DETAILS		
DRAWN: R.L.	DWG NO. 08-00098	REV D
SCALE NTS	DATE 03/19/07	SHEET 4 OF 14
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

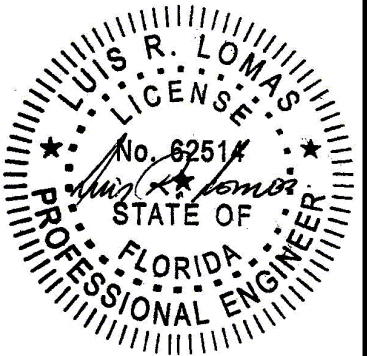
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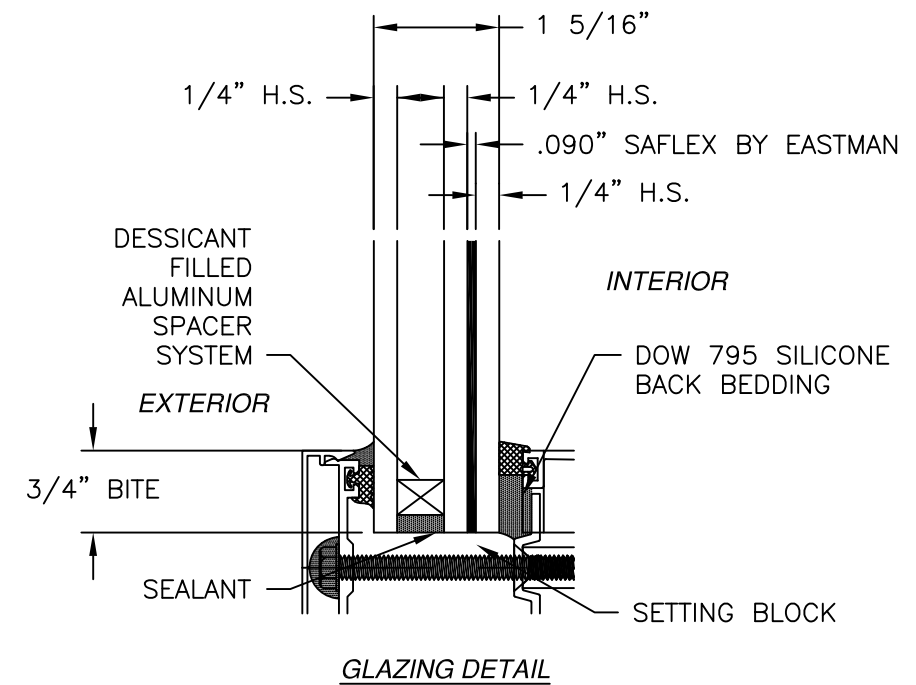
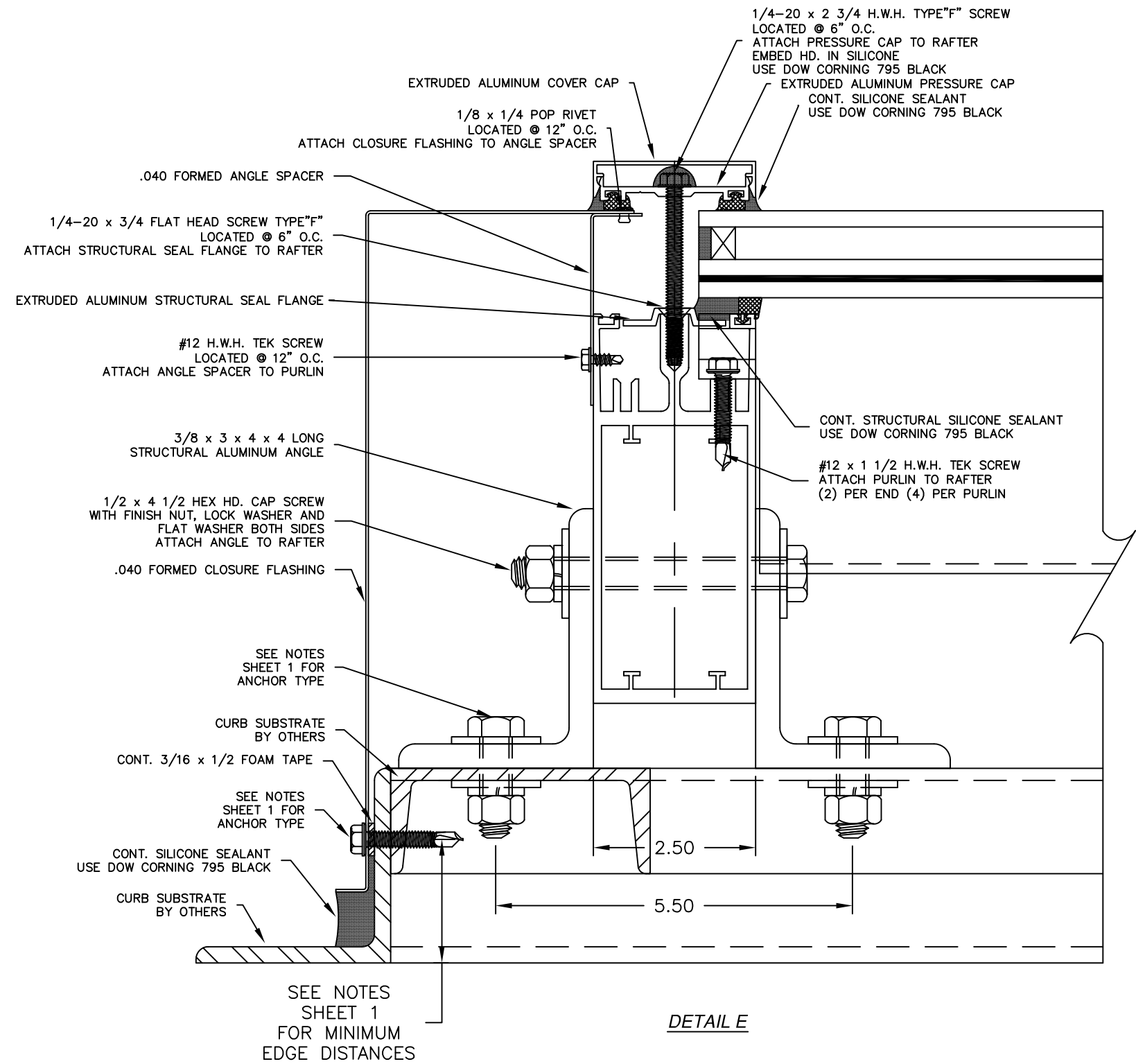
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ACURLITE STRUCTURAL SKYLIGHTS 1017 N. VINE ST. BERWICK, PA 18603		
4' X 8' HURRICANE SKYLIGHT FIXED INSTALLATION DETAILS		
DRAWN: R.L.	DWG NO. 08-00098	REV D
SCALE NTS	DATE 03/19/07	SHEET 5 OF 14
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



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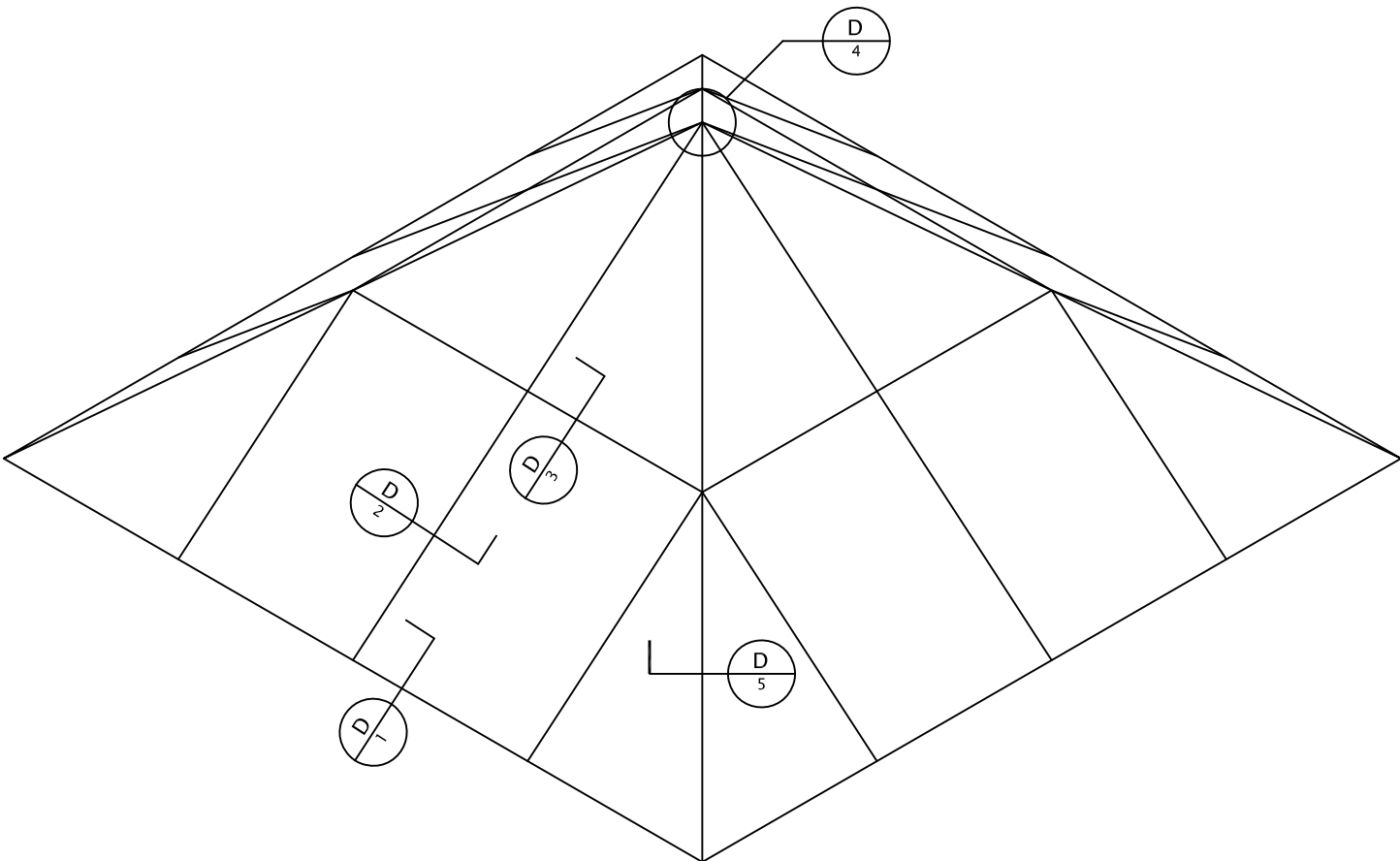
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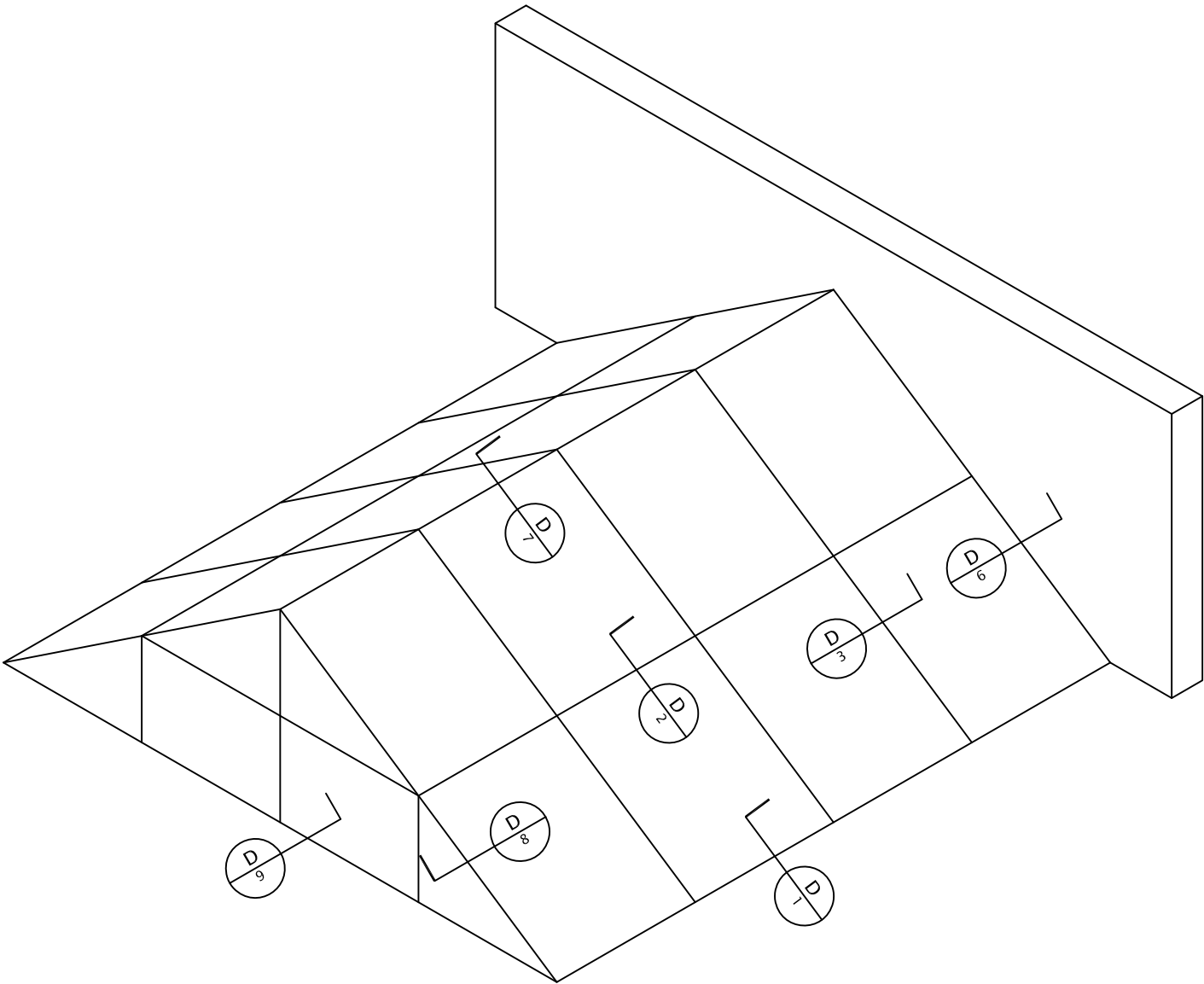
SIGNED: 03/11/2024

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4' X 8' HURRICANE SKYLIGHT FIXED INSTALLATION AND GLAZING DETAILS			
DRAWN: R.L.	DWG NO. 08-00098	REV D	
SCALE NTS	DATE 03/19/07	SHEET 6 OF 14	
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com			

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PYRAMID

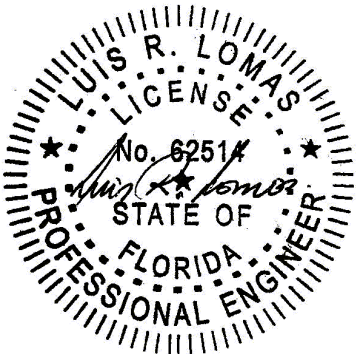


DOUBLE PITCH WITH GABLE

- NOTES:
- 1) SINGLE UNITS IN THESE CONFIGURATIONS MAY NOT EXCEED DIMENSIONS OF APPROVED UNIT AS SHOWN IN SHEET 2.
 - 2) CONFIGURATIONS SHOWN HEREIN ARE SAMPLES OF ASSEMBLIES ACHIEVED WITH APPROVED UNITS. HOWEVER, FURTHER ENGINEERING ANALYSIS IS REQUIRED TO INSURE STRUCTURAL SOUNDNESS OF ANCHORING, PURLINS, RAFTERS AND OTHER STRUCTURAL COMPONENTS USED IN THESE ASSEMBLIES. ENGINEERING ANALYSIS MUST BE PERFORMED BY A LICENSED PROFESSIONAL.

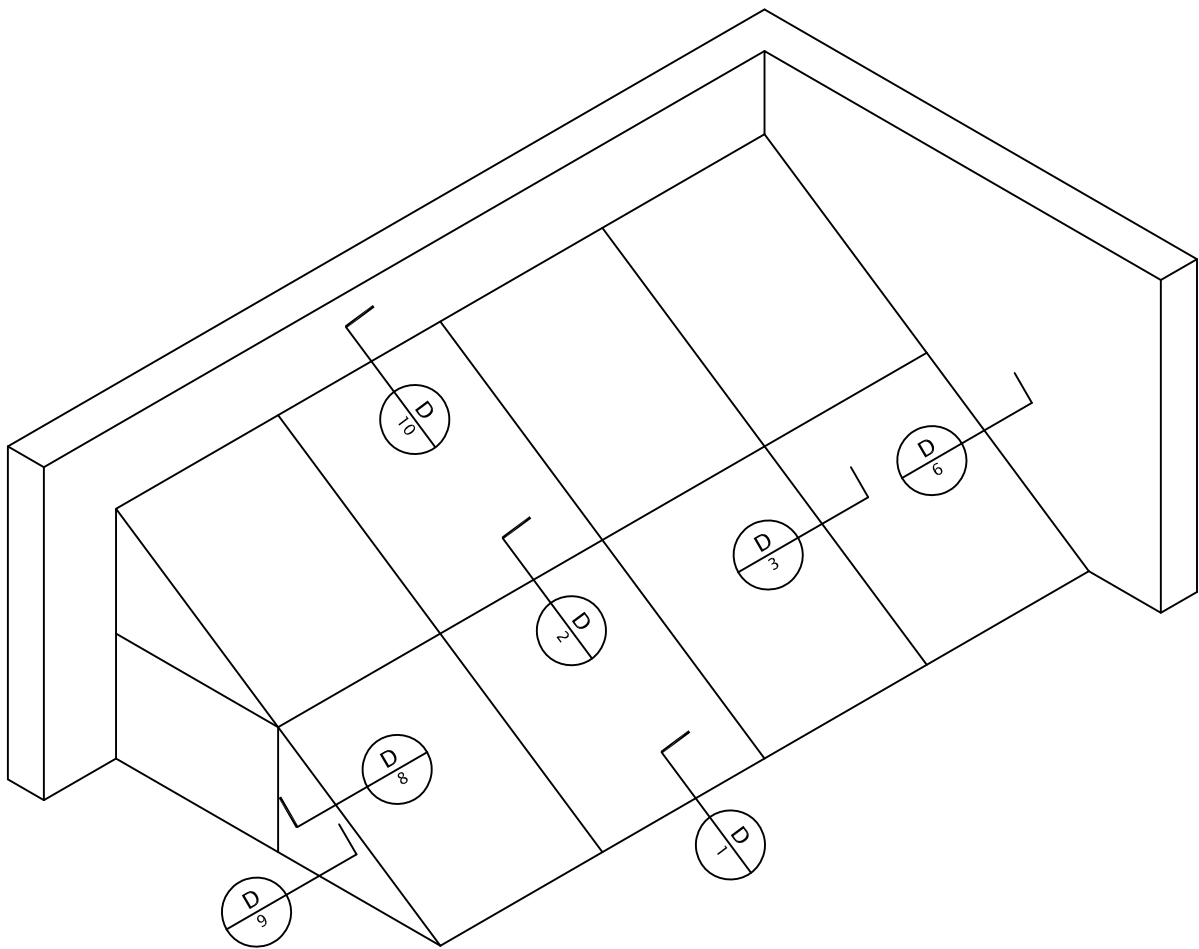
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ACURLITE STRUCTURAL SKYLIGHTS 1017 N. VINE ST. BERWICK, PA 18603		
4' X 8' HURRICANE SKYLIGHT FIXED OPTIONAL CONFIGURATIONS		
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SCALE NTS	DATE 03/19/07	SHEET 7 OF 14
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

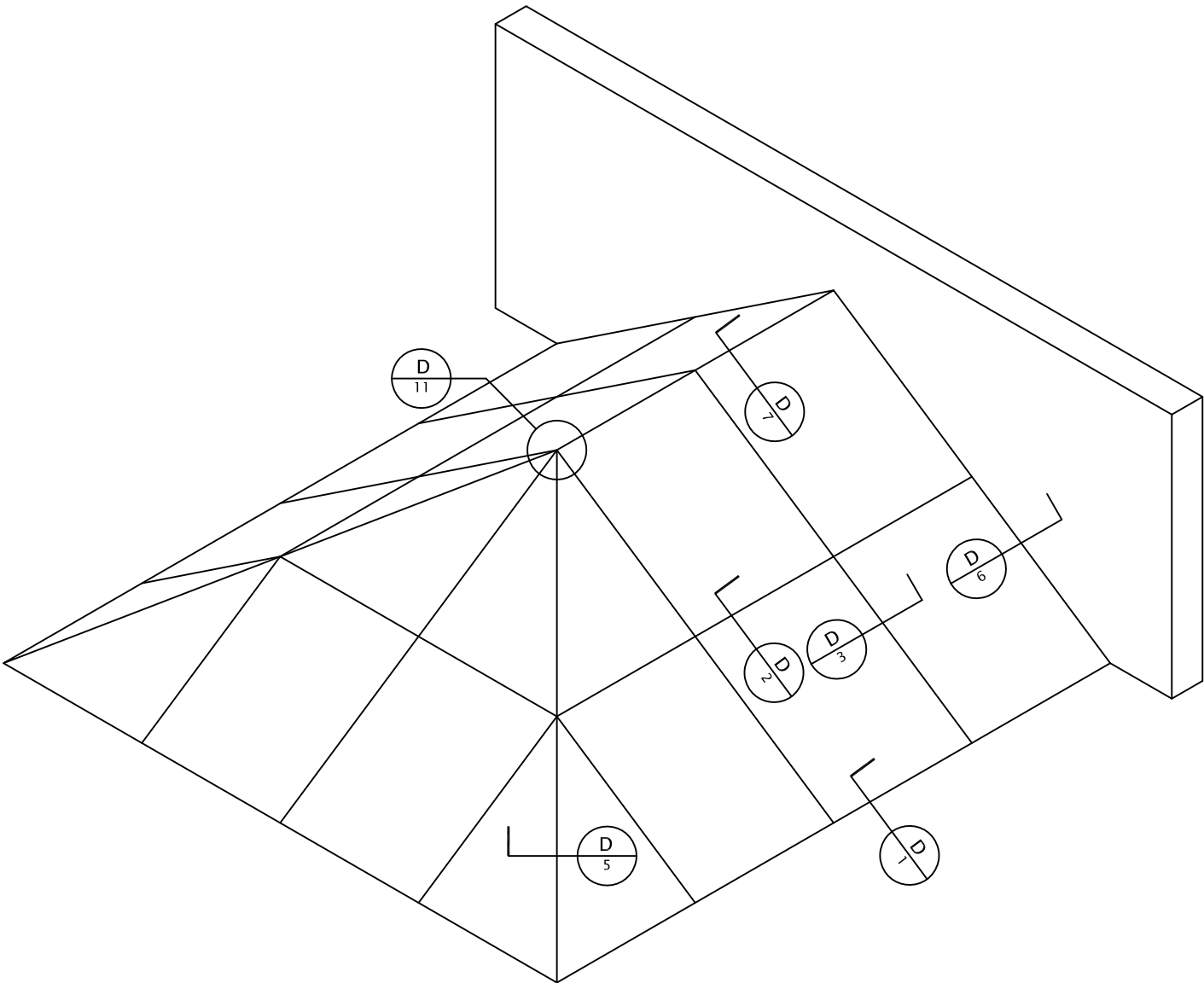


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SINGLE PITCH WITH GABLE

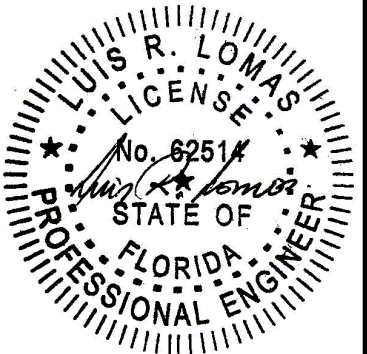


DOUBLE PITCH WITH HIP

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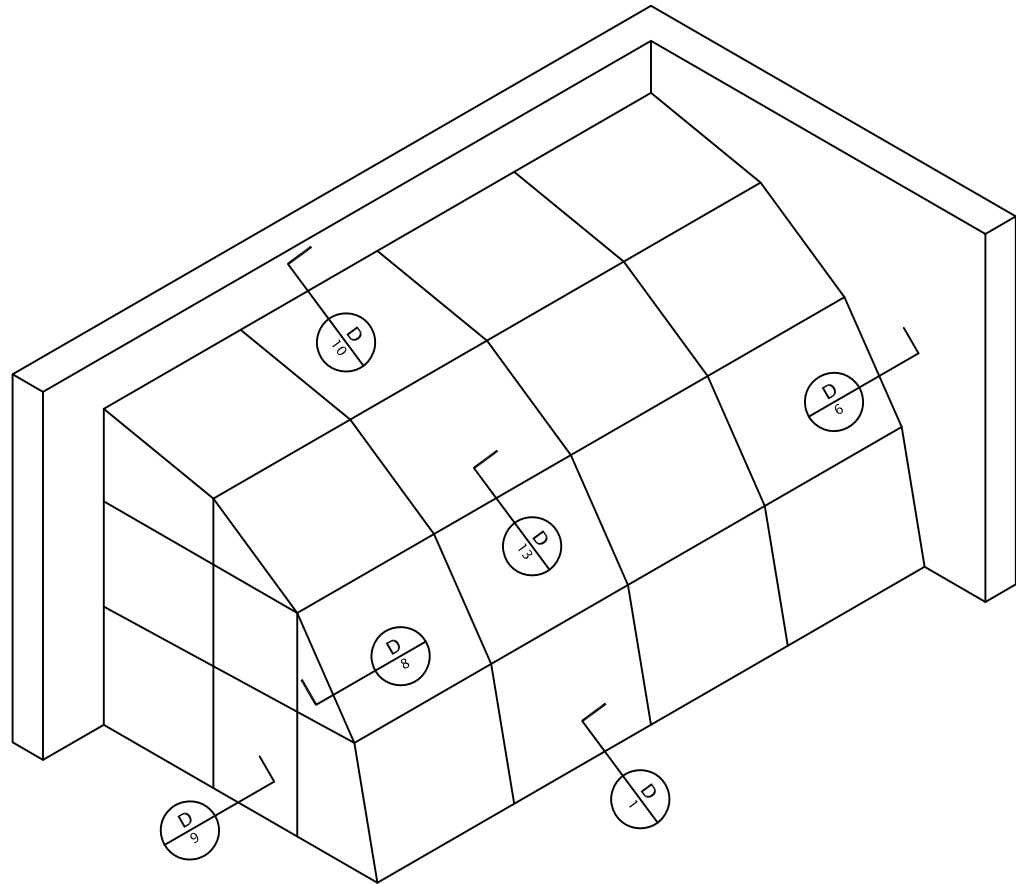
ACURLITE STRUCTURAL SKYLIGHTS 1017 N. VINE ST. BERWICK, PA 18603		
4' X 8' HURRICANE SKYLIGHT FIXED OPTIONAL CONFIGURATIONS		
DRAWN: R.L.	DWG NO. 08-00098	REV D
SCALE NTS	DATE 03/19/07	SHEET 8 OF 14
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

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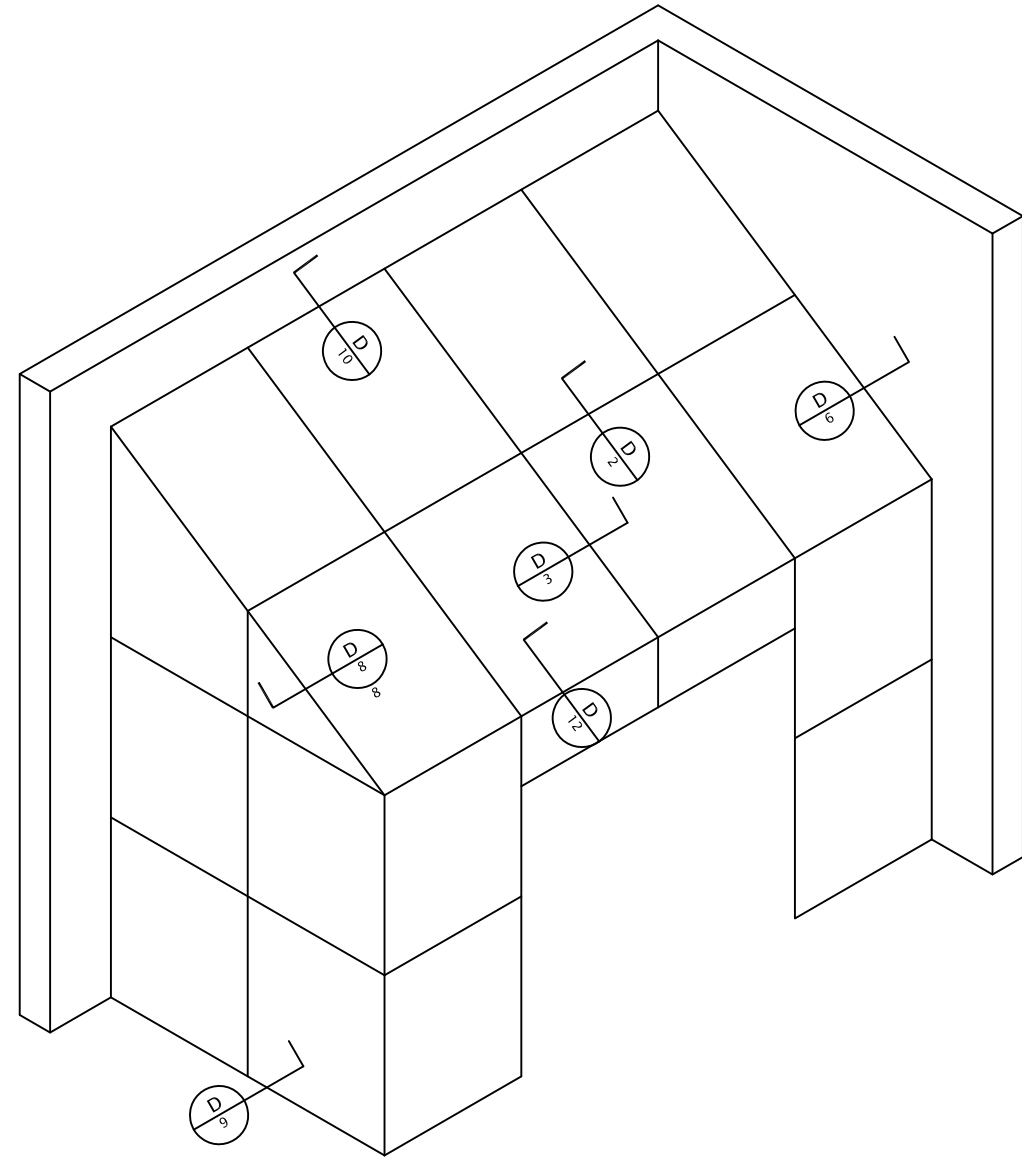


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SEGMENTED BARRELL QUATER VAULT WITH GABLE



LEAN-TO WITH GABLE

NOTES:

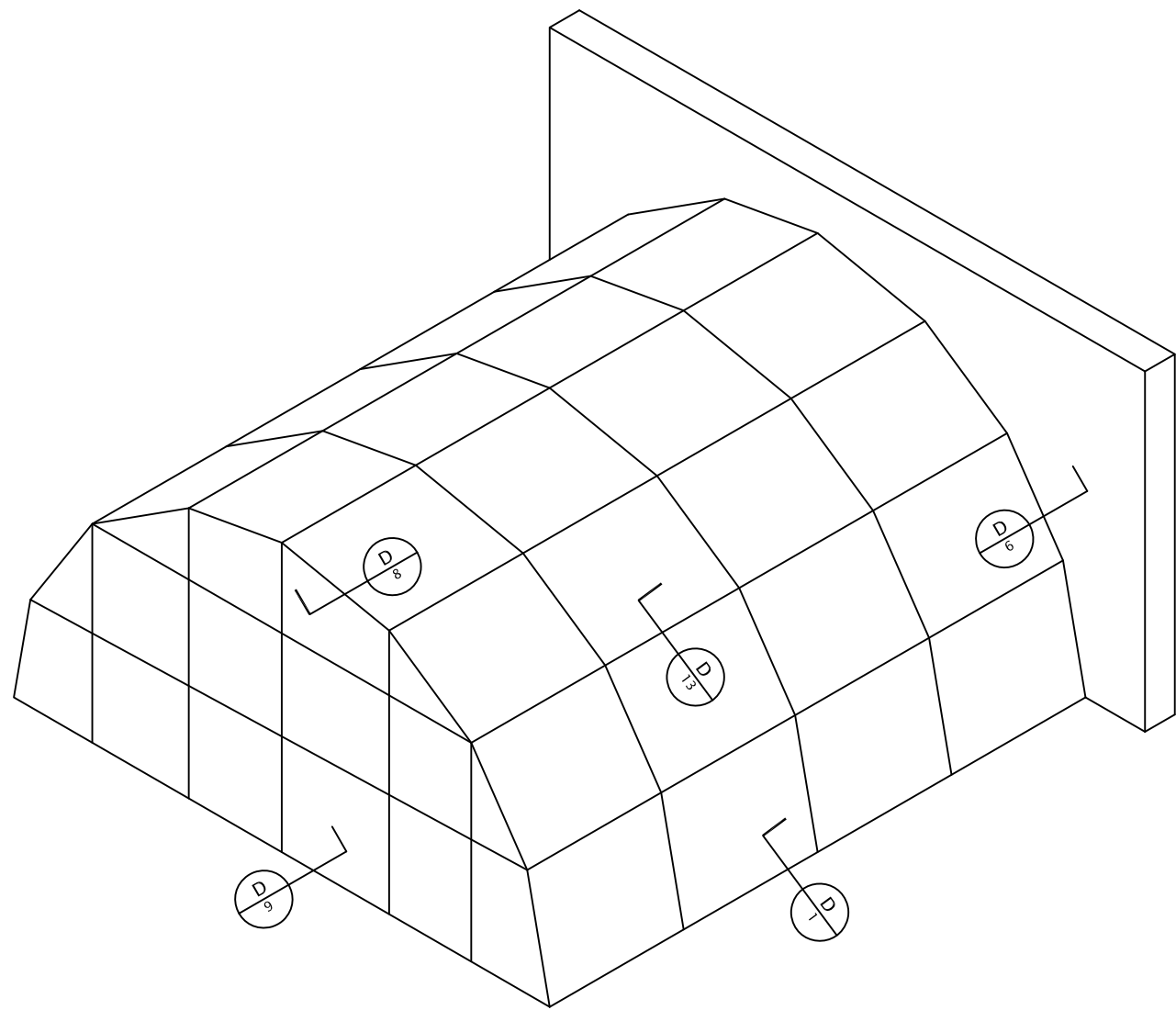
- 1) SINGLE UNITS IN THESE CONFIGURATIONS MAY NOT EXCEED DIMENSIONS OF APPROVED UNIT AS SHOWN IN SHEET 2.
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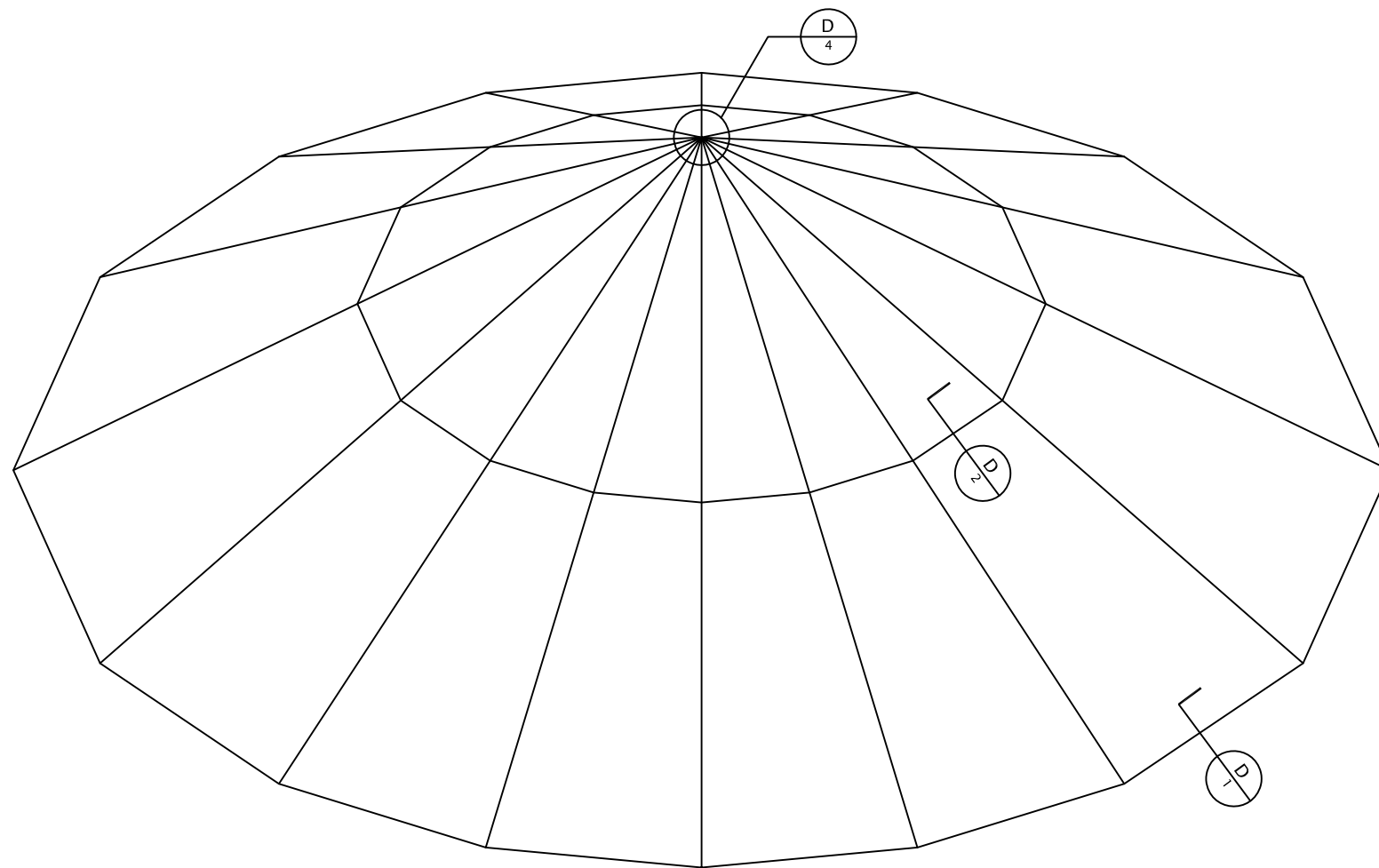
ACURLITE STRUCTURAL SKYLIGHTS 1017 N. VINE ST. BERWICK, PA 18603		
4' X 8' HURRICANE SKYLIGHT FIXED OPTIONAL CONFIGURATIONS		
DRAWN: R.L.	DWG NO. 08-00098	REV D
SCALE NTS	DATE 03/19/07	SHEET 9 OF 14
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

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SEGMENTED BARRELL HALF VAULT WITH GABLE

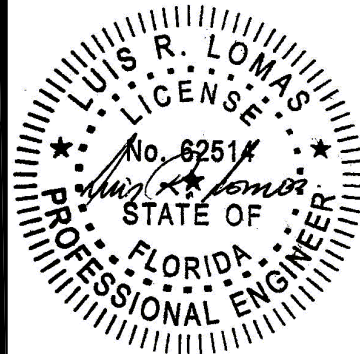


POLYGON

NOTES:

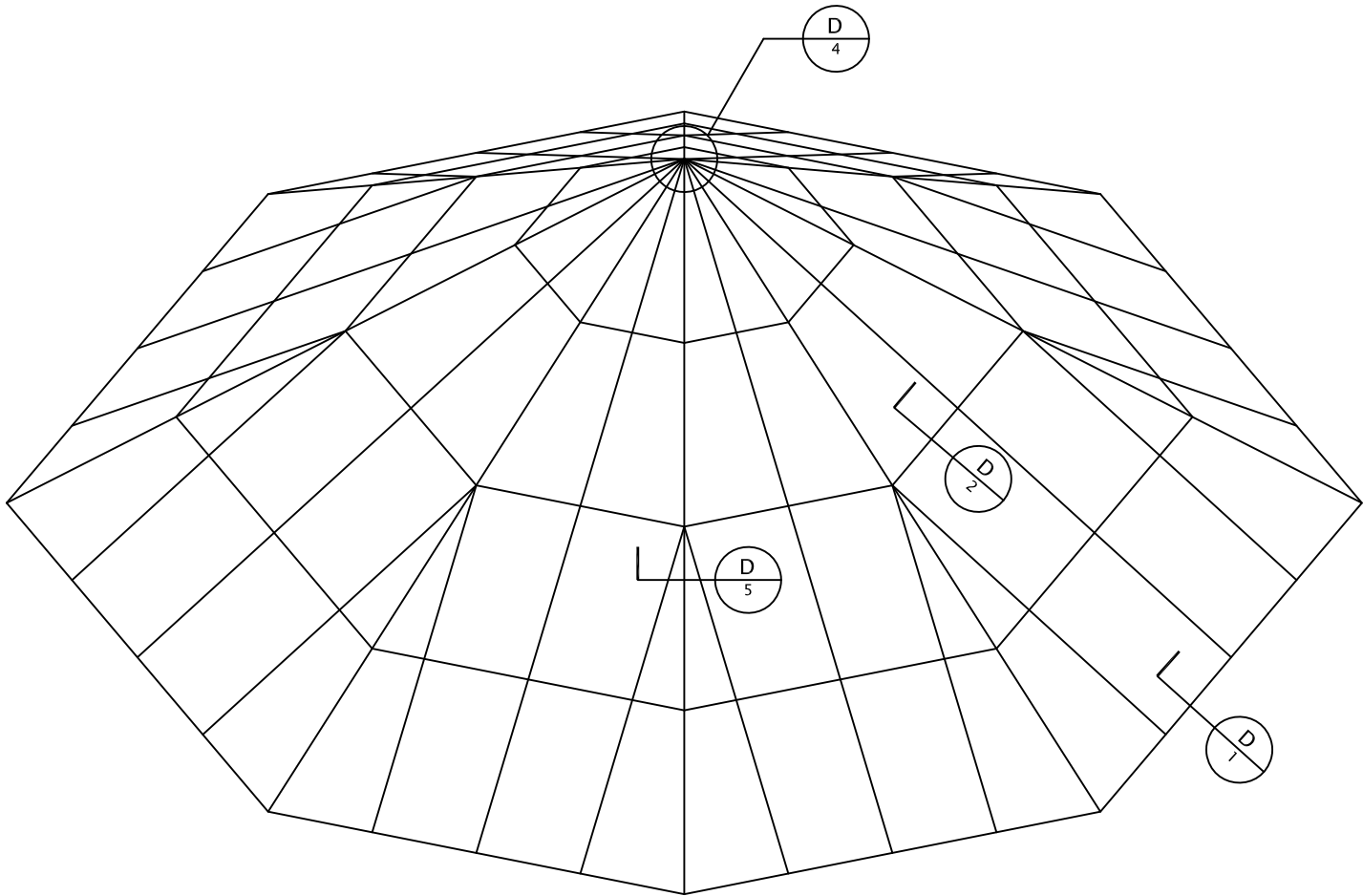
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ACURLITE STRUCTURAL SKYLIGHTS 1017 N. VINE ST. BERWICK, PA 18603			
4' X 8' HURRICANE SKYLIGHT FIXED OPTIONAL CONFIGURATIONS			
DRAWN: R.L.	DWG NO. 08-00098	REV D	
SCALE NTS	DATE 03/19/07	SHEET 10 OF 14	
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com			

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POLYGON WITH JACK RAFTERS

NOTES:

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ACURLITE STRUCTURAL SKYLIGHTS
1017 N. VINE ST.
BERWICK, PA 18603

4' X 8' HURRICANE SKYLIGHT
FIXED
OPTIONAL CONFIGURATIONS

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R.L.

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SCALE NTS

DATE 03/19/07

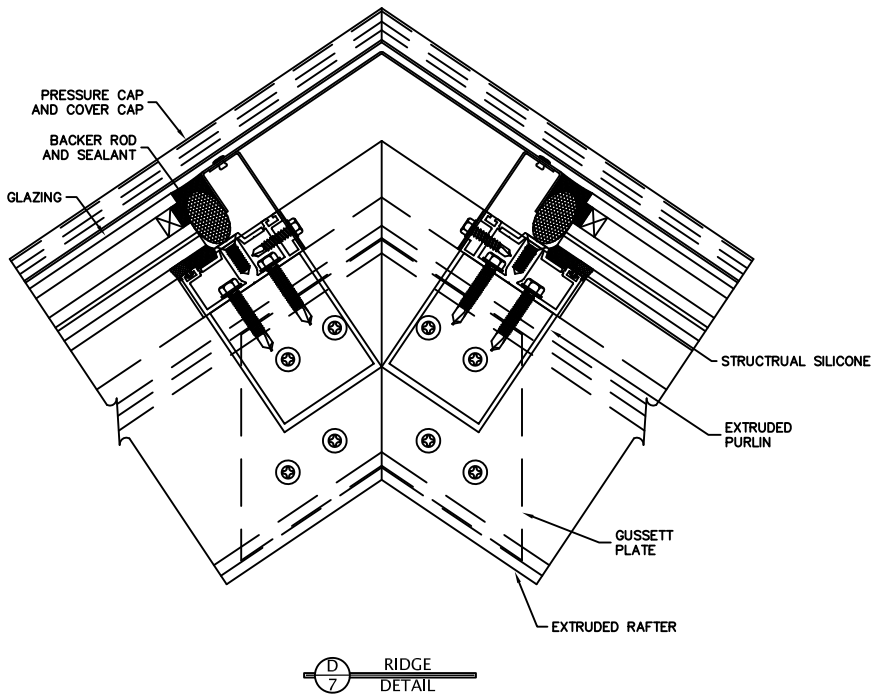
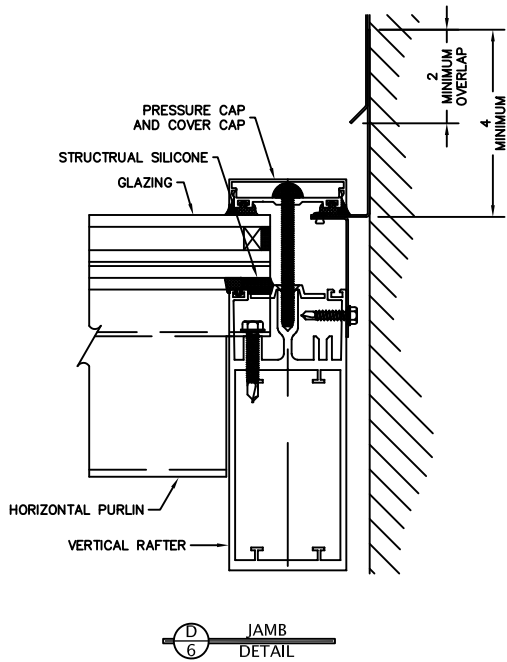
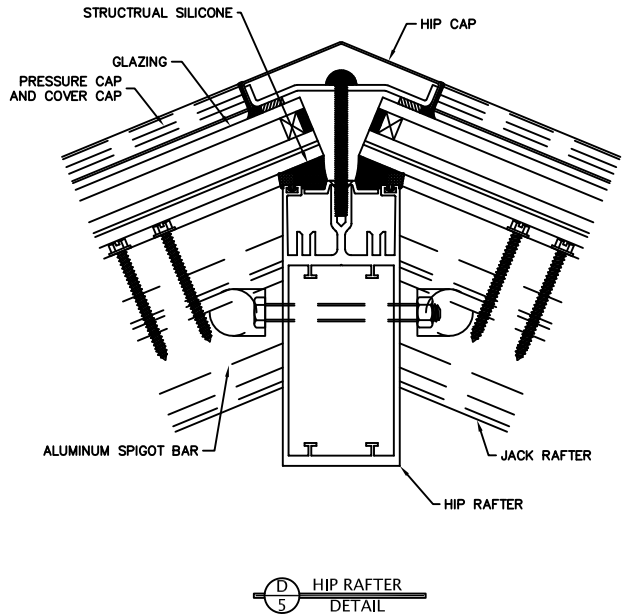
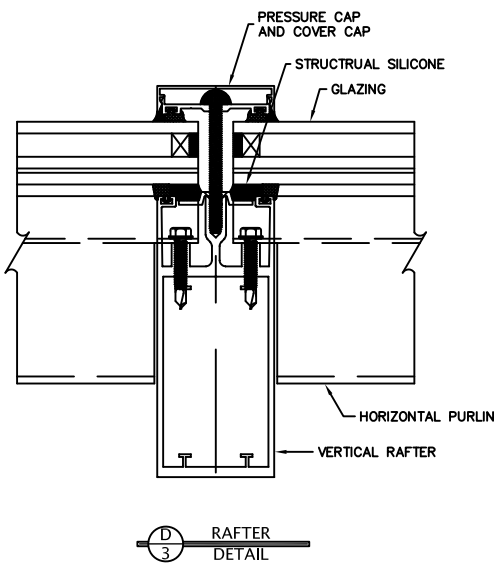
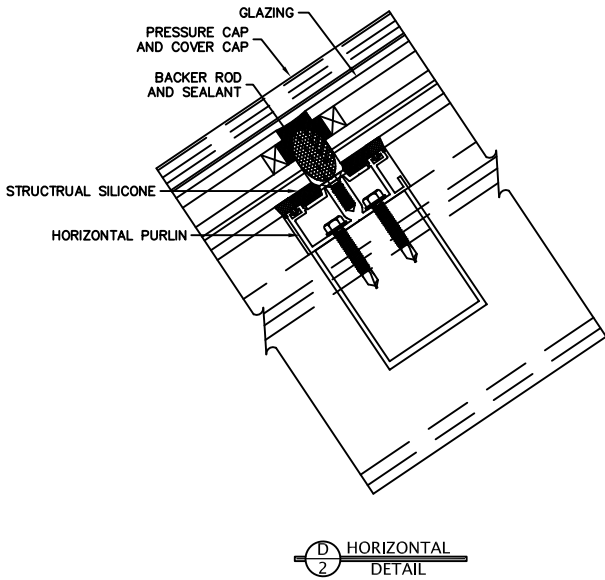
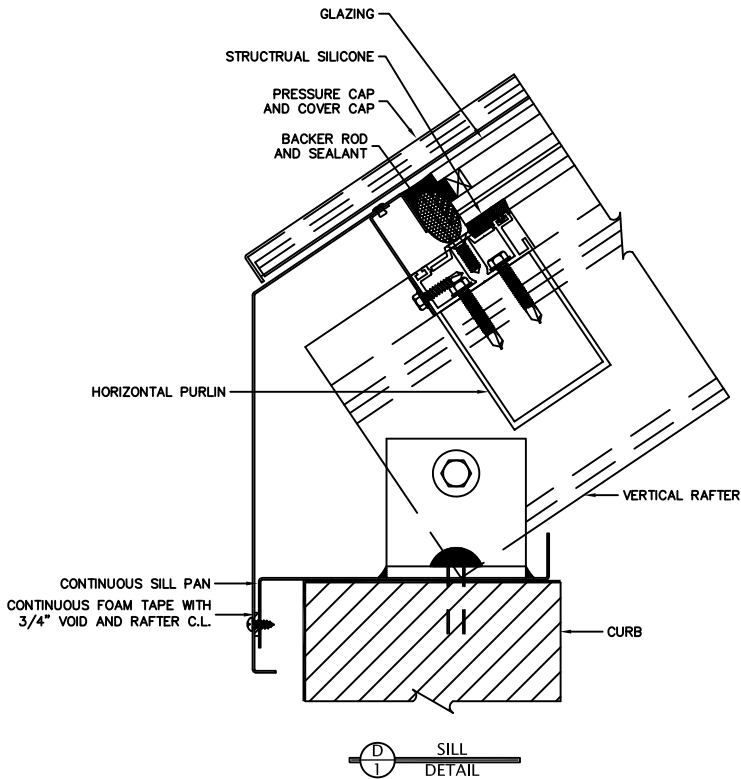
SHEET 11 OF 14

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- NOTES:
- ANCHORING DETAILS SHOWN IN THIS SHEET ARE QUALIFIED FOR A SINGLE UNIT INSTALLATION. WHEN UNITS ARE ASSEMBLED AS SHOWN IN SHEETS 7 THRU 11 FURTHER ENGINEERING ANALYSIS IS REQUIRED TO INSURE ANCHORS, PURLINS, RAFTERS AND ANY OTHER STRUCTURAL COMPONENT ARE ABLE TO WITHSTAND THE REQUIRED DESIGN PRESSURE.
 - REFER TO SHEETS 4 THRU 6 FOR DIFFERENT ANCHOR TYPES AND SUBSTRATES.

ACURLITE STRUCTURAL SKYLIGHTS
1017 N. VINE ST.
BERWICK, PA 18603

4' X 8' HURRICANE SKYLIGHT
FIXED
OPTIONAL INSTALLATION DETAILS

DRAWN:
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DWG NO.
08-00098

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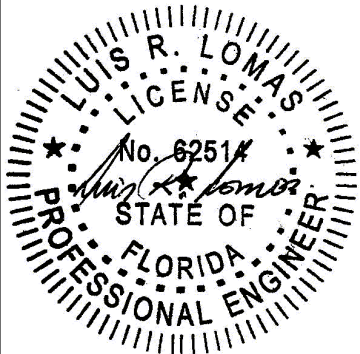
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NTS

DATE
03/19/07

SHEET
12 OF 14

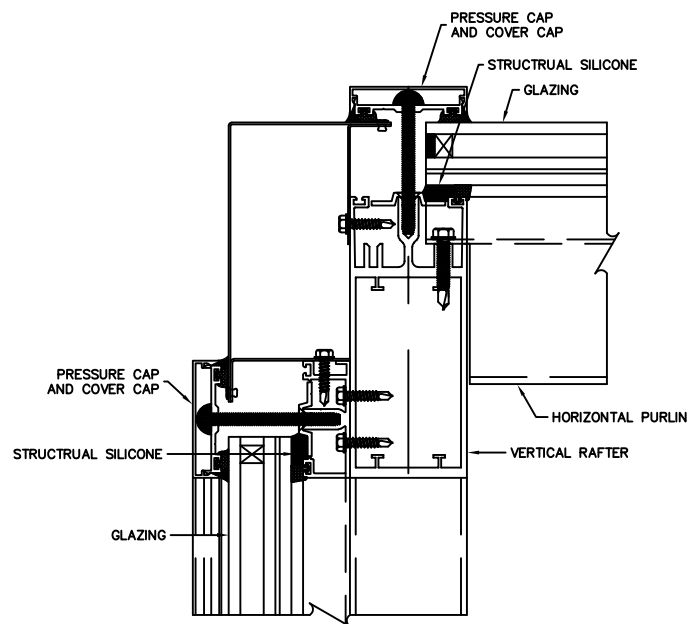
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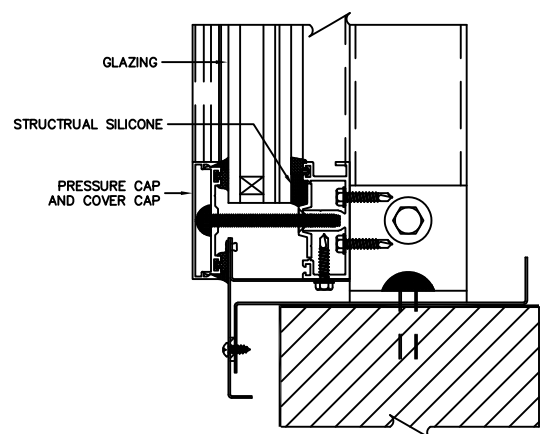


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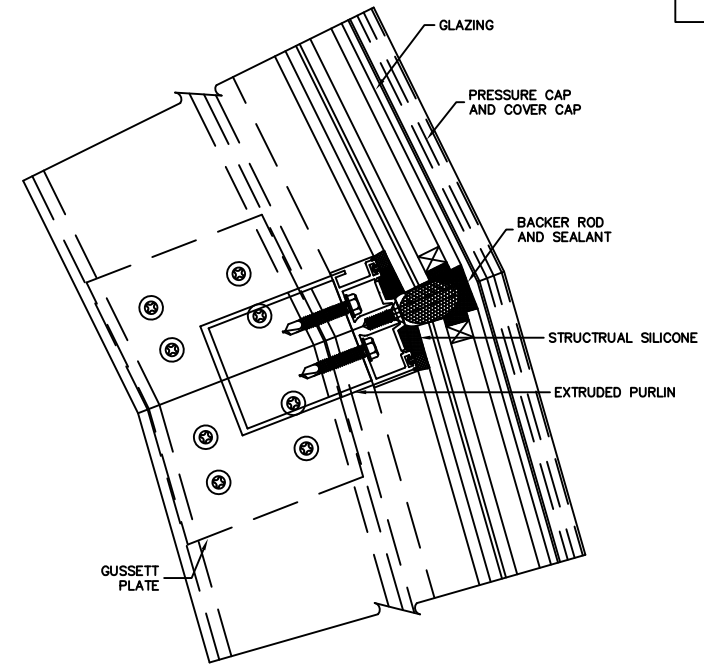
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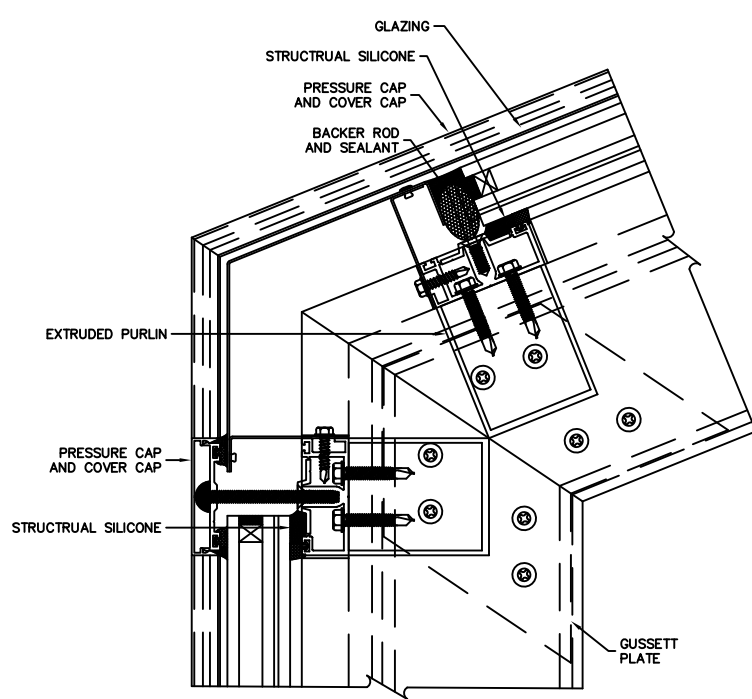
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DETAIL



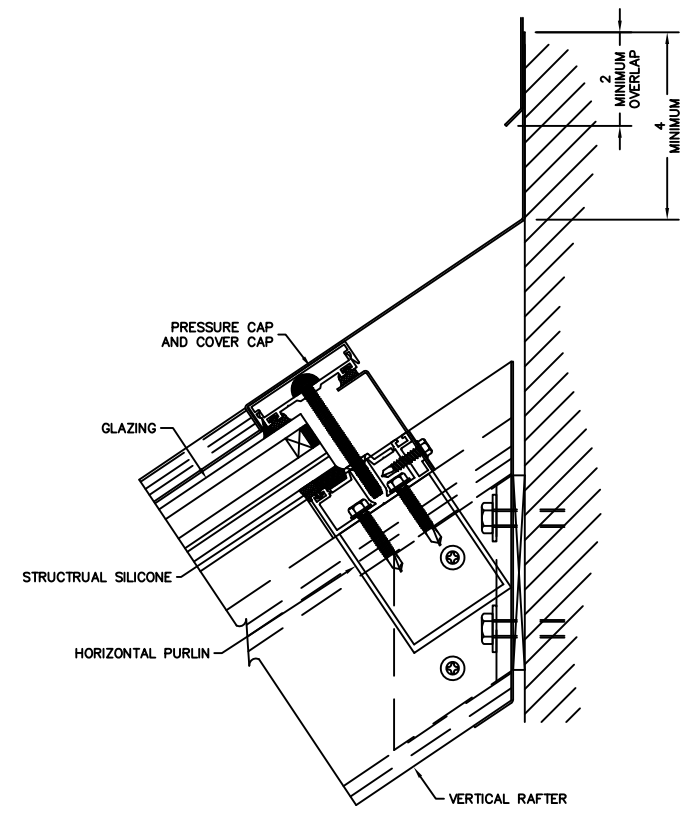
D9 GABLE SILL
DETAIL



D13 KNEE
DETAIL



D12 KNEE
DETAIL



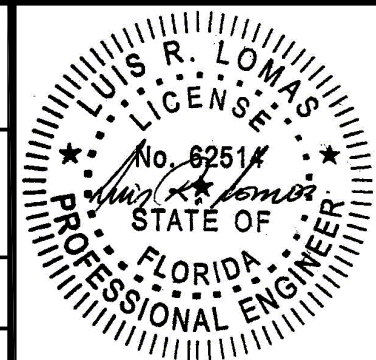
D10 RIDGE
DETAIL

NOTES:

- 1) ANCHORING DETAILS SHOWN IN THIS SHEET ARE QUALIFIED FOR A SINGLE UNIT INSTALLATION. WHEN UNITS ARE ASSEMBLED AS SHOWN IN SHEETS 7 THRU 11 FURTHER ENGINEERING ANALYSIS IS REQUIRED TO INSURE ANCHORS, PURLINS, RAFTERS AND ANY OTHER STRUCTURAL COMPONENT ARE ABLE TO WITHSTAND THE REQUIRED DESIGN PRESSURE.
- 2) REFER TO SHEETS 4 THRU 6 FOR DIFFERENT ANCHOR TYPES AND SUBSTRATES.

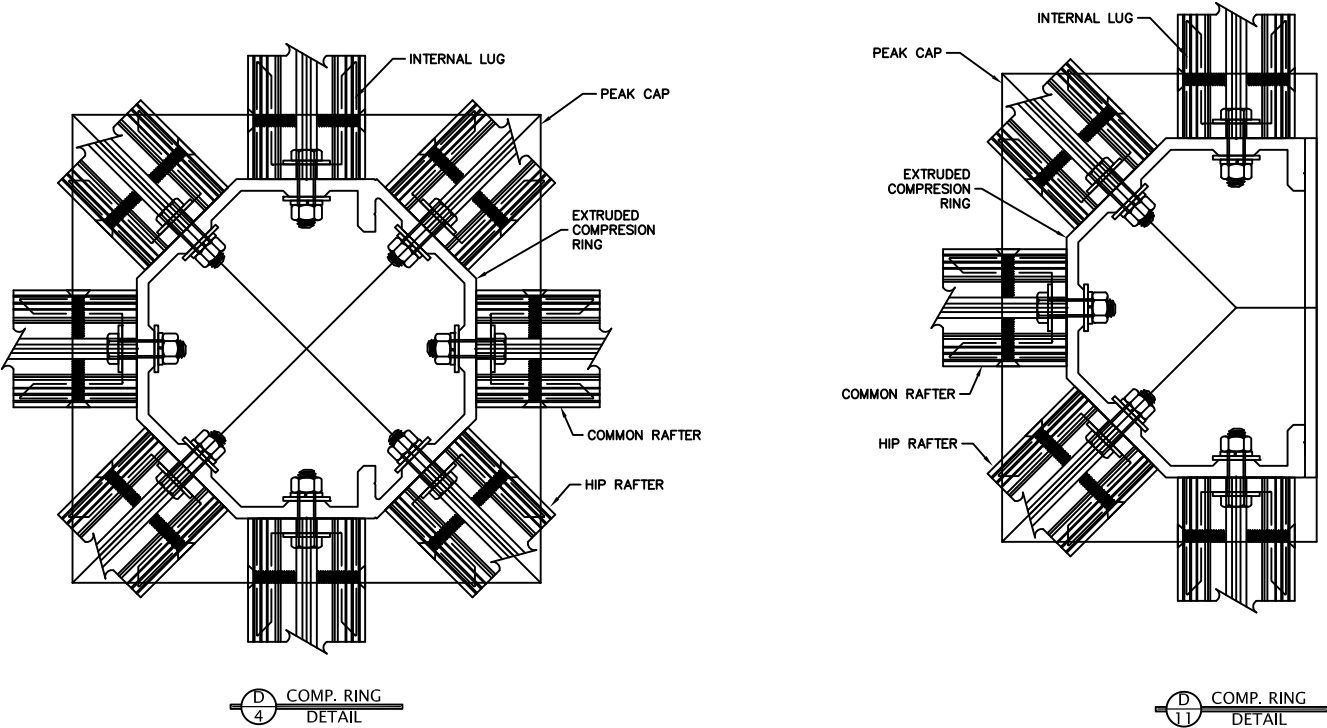
ACURLITE STRUCTURAL SKYLIGHTS 1017 N. VINE ST. BERWICK, PA 18603		
4' X 8' HURRICANE SKYLIGHT FIXED OPTIONAL INSTALLATION DETAILS		
DRAWN: R.L.	DWG NO. 08-00098	REV D
SCALE NTS	DATE 03/19/07	SHEET 13 OF 14
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

SIGNED: 03/11/2024



Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED PER NEW CODE	02/20/2024	R.L.

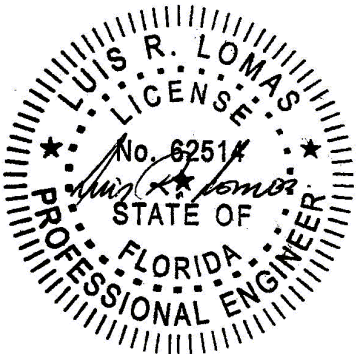


NOTES:

- 1) ANCHORING DETAILS SHOWN IN THIS SHEET ARE USED WHEN MORE THAN ONE UNIT ARE ASSEMBLED AND REQUIRE FURTHER ENGINEERING ANALYSIS TO INSURE ANCHORS, PURLINS, RAFTERS AND ANY OTHER STRUCTURAL COMPONENT ARE ABEL TO WITHSTAND THE REQUIRED DESIGN PRESSURE.
- 2) REFER TO SHEETS 4 THRU 6 FOR DIFFERENT ANCHOR TYPES AND SUBSTRATES.

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