

ANDERSON RESIDENCE 6644 KINGSWOOD DRIVE HUDSON, OH 44236



3453 West 140th Street
Cleveland, OH 44111
PH (855)412-7444
Email: info@brightcovers.com

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EXAMPLE ONLY

PREPARED BY:
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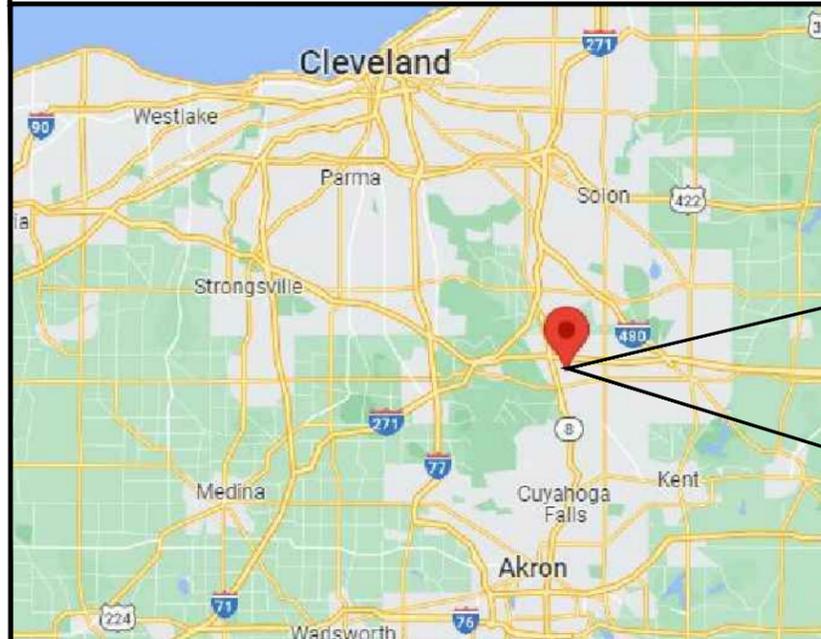


PROPOSED LOCATION

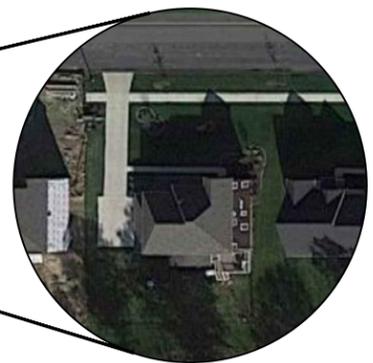


REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR PERMIT	5/5/2022



VICINITY MAP



DRAWING INDEX

SHEET #	SHEET TITLE
1	COVER SHEET & DRAWING INDEX
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ABBREVIATIONS

(E)	EXISTING
TYP	TYPICAL
O.C.	ON CENTER
CP	CUSTOM PANEL
DS	DOWNSPOUT

BRIGHT COVERS ADDITION
ANDERSON RESIDENCE

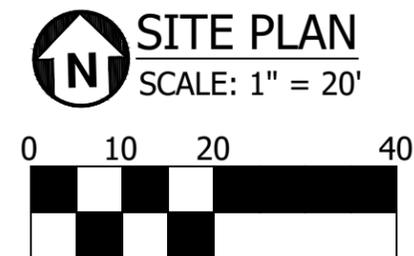
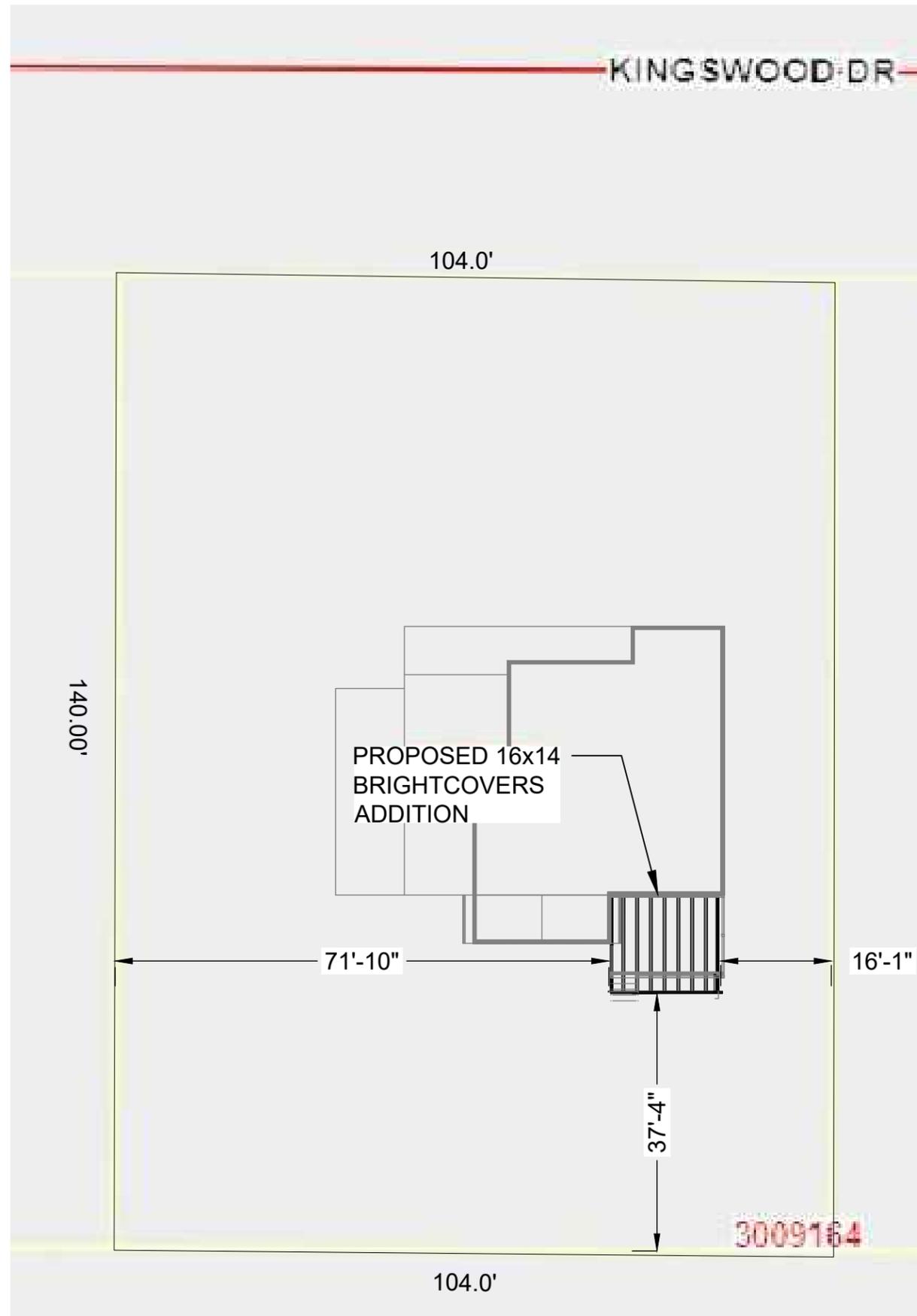
BEN & ALYSSA ANDERSON
6644 KINGSWOOD DRIVE
HUDSON, OH 44236

TITLE SHEET

Dwn: SL Scale: AS NOTED

Dwg No.	Rev.
1	1

CITY OF HUDSON
 SUMMIT COUNTY
 PARCEL ID: 3010283
 ACRES: 0.336



NOTE:
 INFORMATION FOR THIS DRAWING
 WAS OBTAINED THROUGH THE
 SUMMIT COUNTY GIS PARCEL
 VIEWER. ALL MEASUREMENTS TO
 BE FIELD VERIFIED.



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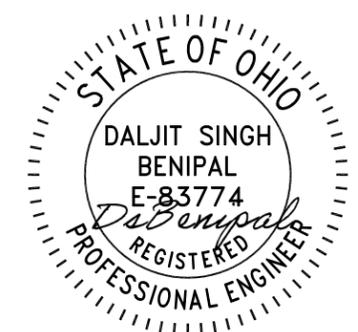
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SITE PLAN

Dwn: SL Scale: AS NOTED

Dwg No.	Rev.
2	1



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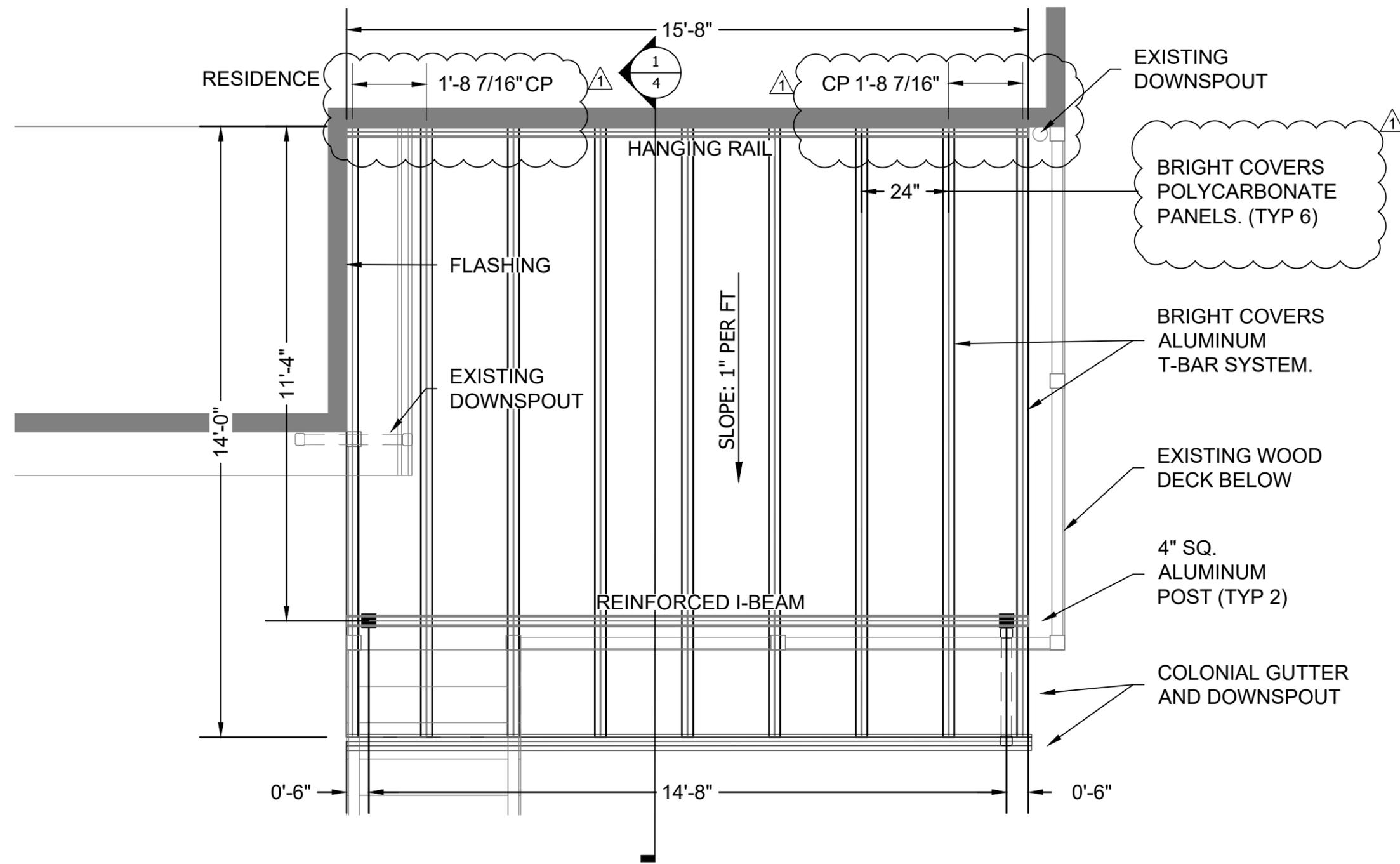
**BRIGHT COVERS ADDITION
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**CONSTRUCTION
PLAN**

Dwn: SL | Scale: AS NOTED

Dwg No.	Rev.
3	1



PLAN VIEW
SCALE: 3/8" = 1'-0"

GENERAL NOTES

- COVER SHALL HAVE A BLACK ALUMINUM FRAME AND GREY POLYCARBONATE PANELS.
- COVER SHALL BE ATTACHED TO EXTERIOR WALL THRU SIDING STARTING IN LEFT CORNER BELOW SOFFIT. BOTTOM OF HANG RAIL TO BE ATTACHED @ 102" ABOVE DECK.
- 4" SQ X 85" ALUMINUM POSTS TO BE ANCHORED INTO EXISTING DECK WITH BLOCKING WHERE REQUIRED.
- ALL MEASUREMENTS TO BE FIELD VERIFIED BY INSTALLERS.



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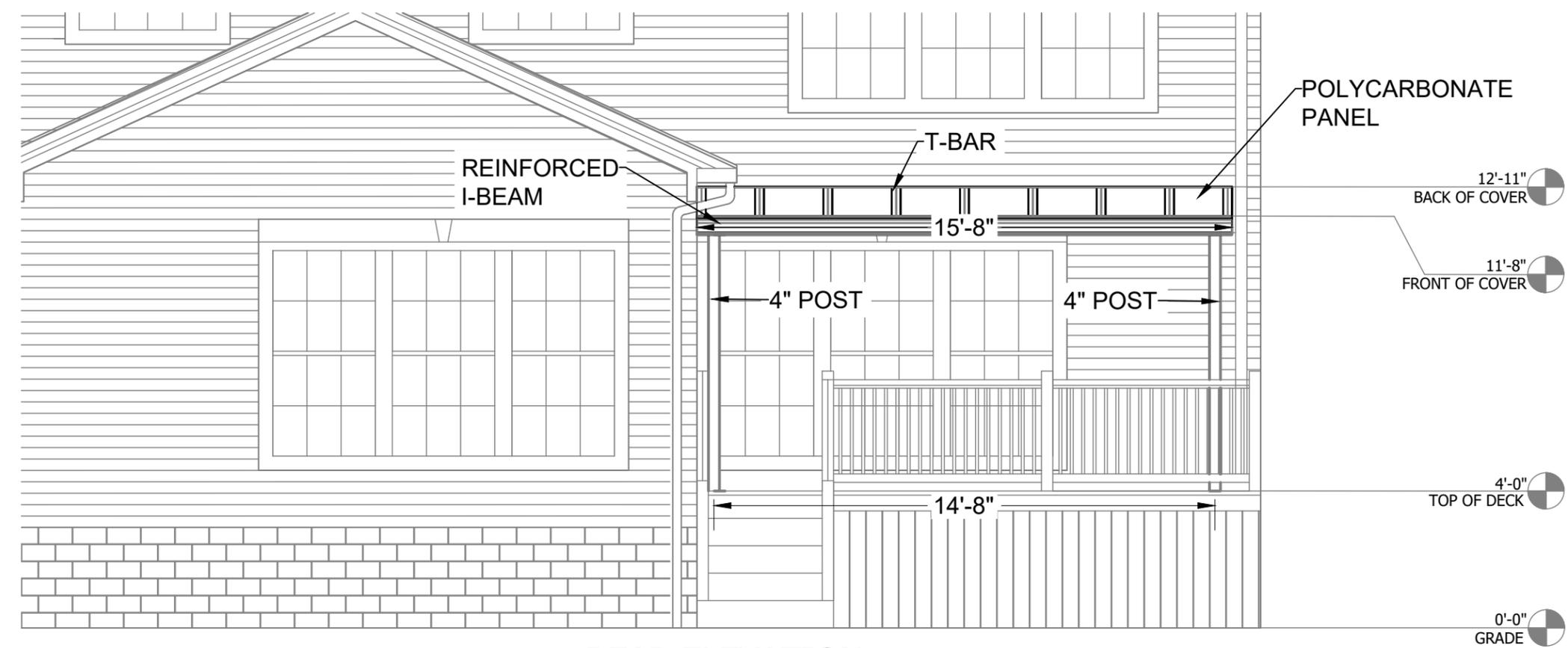
**BRIGHT COVERS ADDITION
ANDERSON RESIDENCE**

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ELEVATION VIEWS

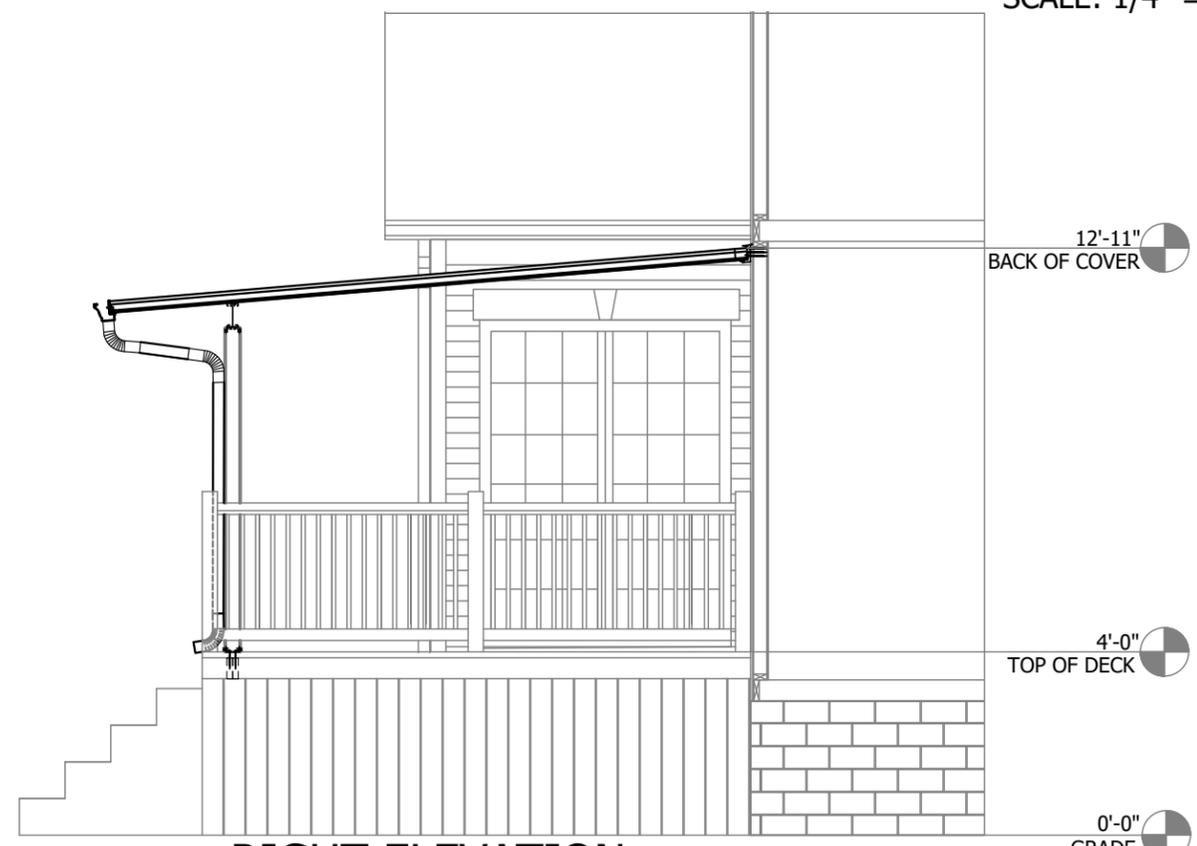
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Dwg No. 4a Rev. 1



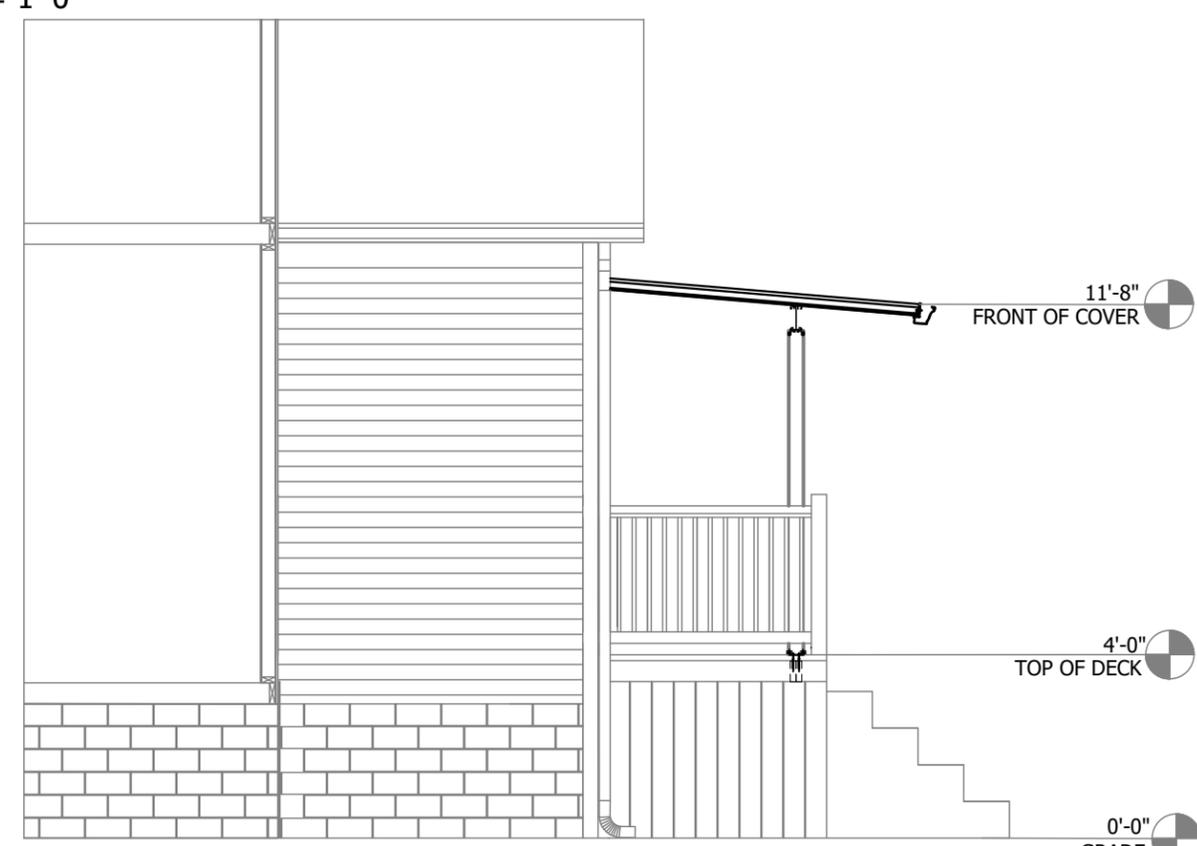
REAR ELEVATION

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



RIGHT ELEVATION

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



LEFT ELEVATION

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



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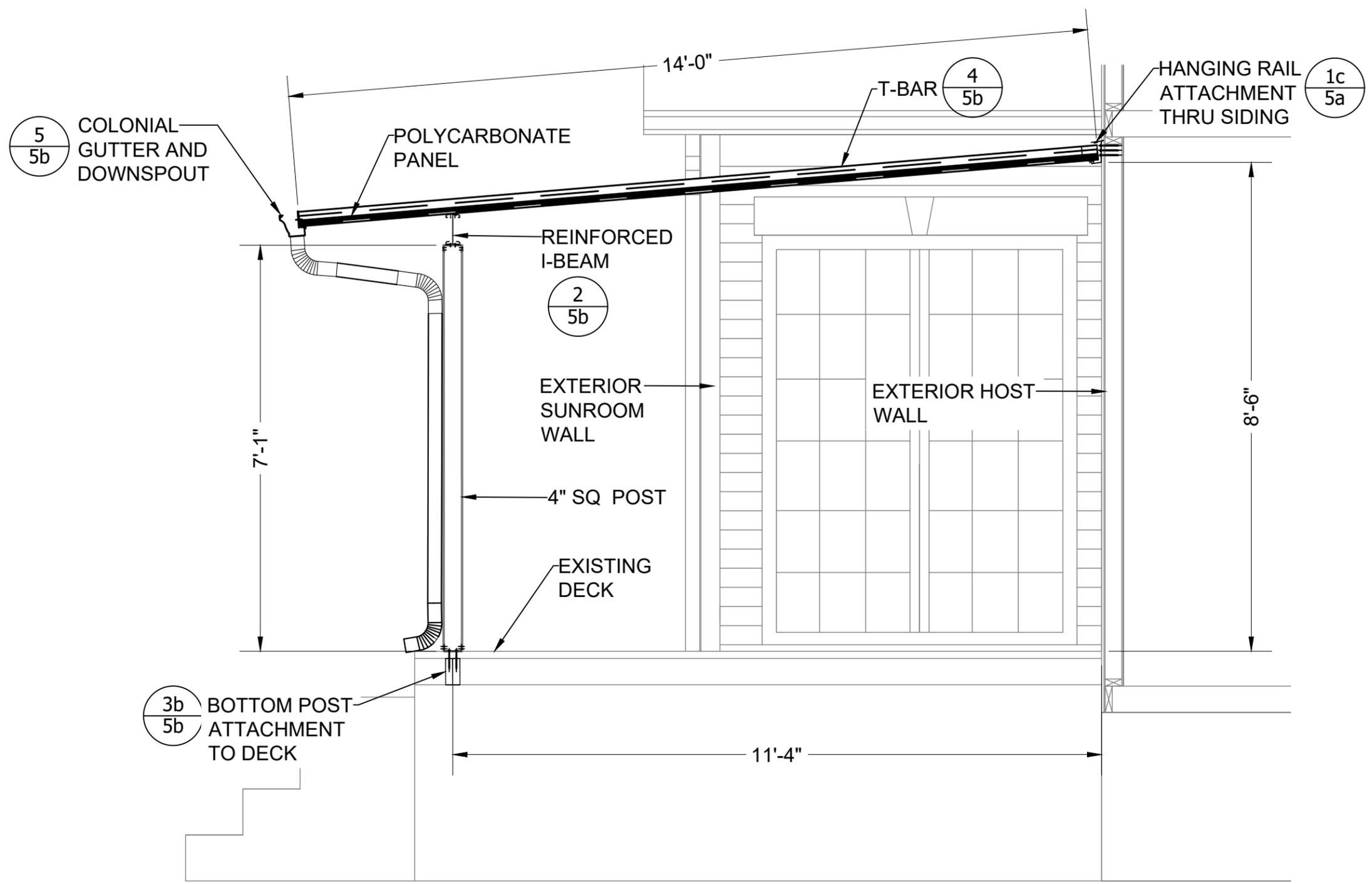
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SECTION PLAN

Dwn: SL Scale: AS NOTED

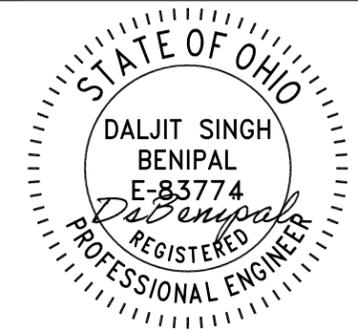
Dwg No. **4b** Rev. 1



1 SECTION PLAN
4 SCALE: 1/2" = 1'-0"

GENERAL NOTES

- COVER SHALL HAVE A BLACK ALUMINUM FRAME AND GREY POLYCARBONATE PANELS.
- COVER SHALL BE ATTACHED TO EXTERIOR WALL THRU SIDING STARTING IN LEFT CORNER BELOW SOFFIT. BOTTOM OF HANG RAIL TO BE ATTACHED @ 102" ABOVE DECK.
- 4" SQ X 85" ALUMINUM POSTS TO BE ANCHORED INTO EXISTING DECK WITH BLOCKING WHERE REQUIRED.
- ALL MEASUREMENTS TO BE FIELD VERIFIED BY INSTALLERS.



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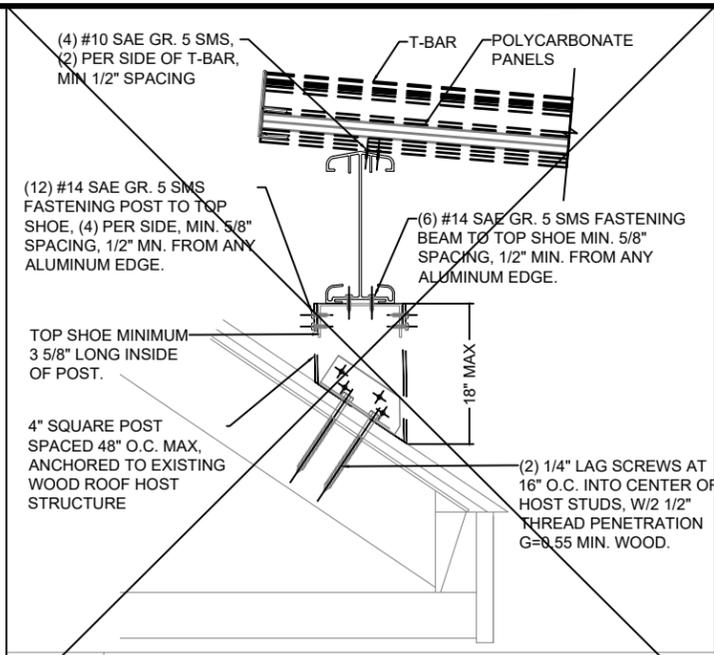
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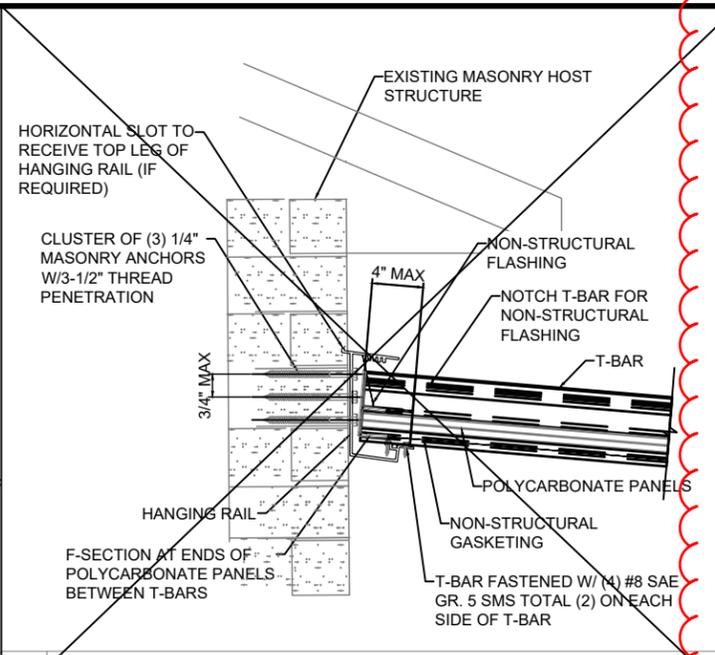
TYPICAL DETAILS

Dwn: SL | Scale: AS NOTED

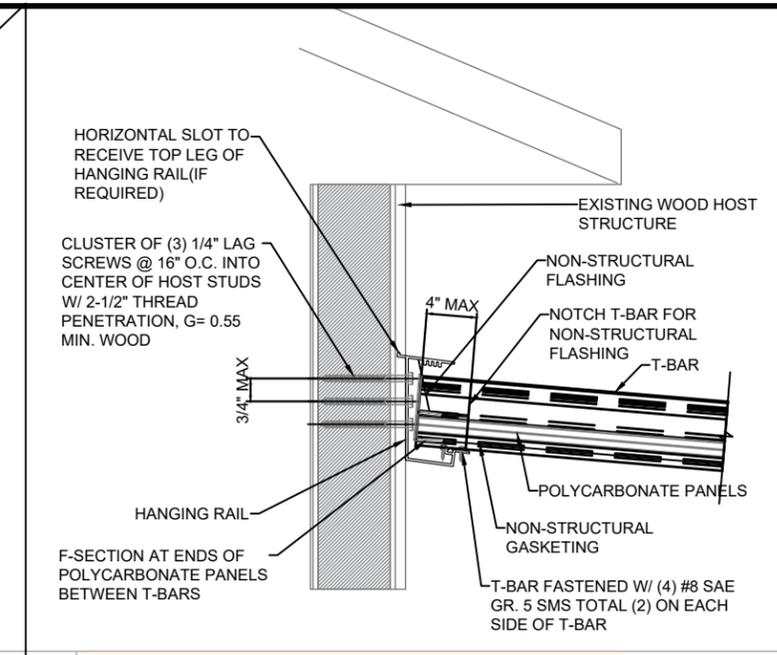
Dwg No. 5A | Rev. 1



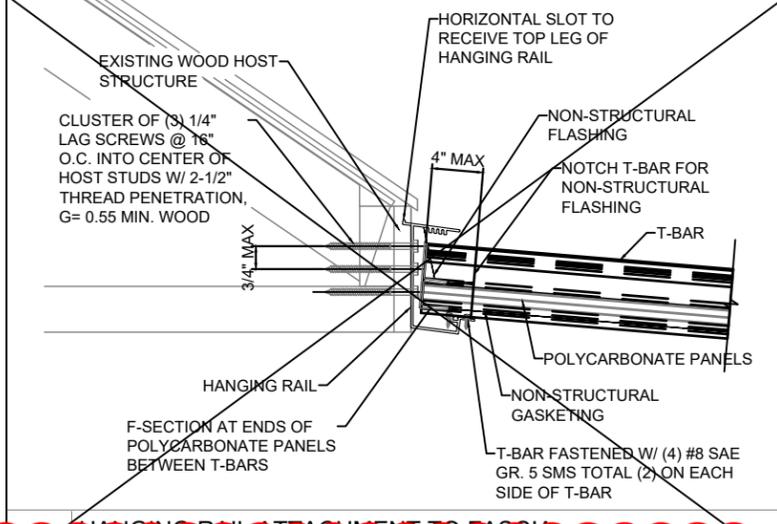
1a ROOF ATTACHMENT DETAIL
N.T.S.



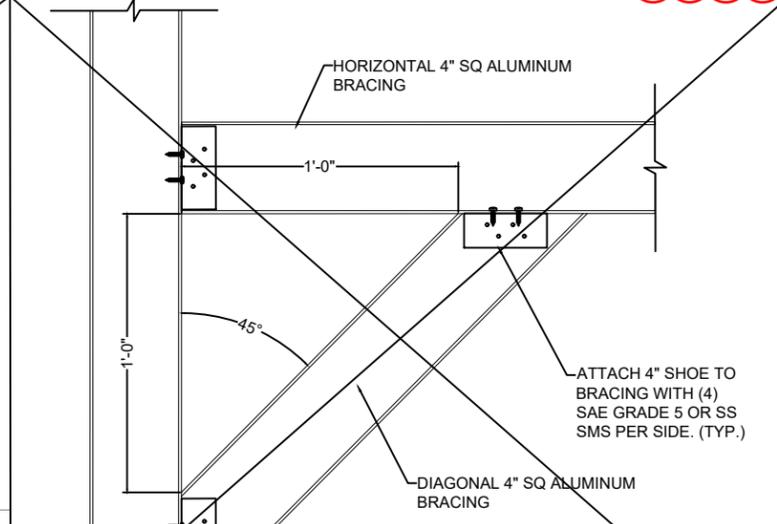
1b HANGING RAIL ATTACHMENT TO MASONRY HOST
N.T.S.



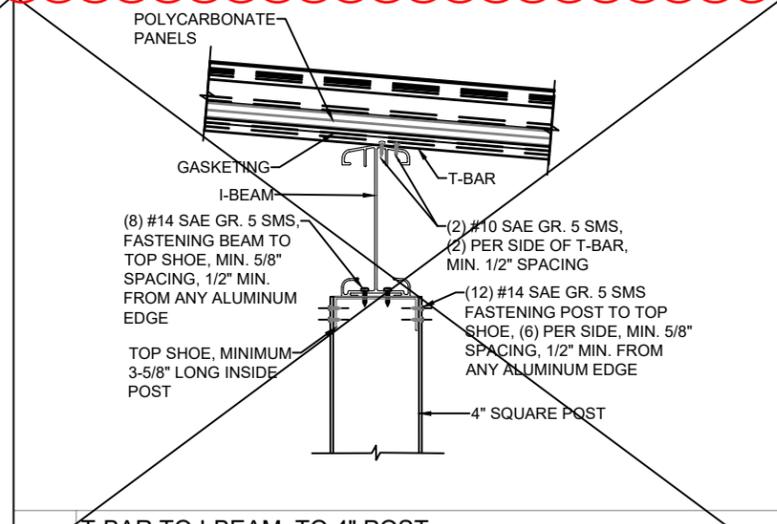
1c HANGING RAIL ATTACHMENT TO WOOD HOST
N.T.S.



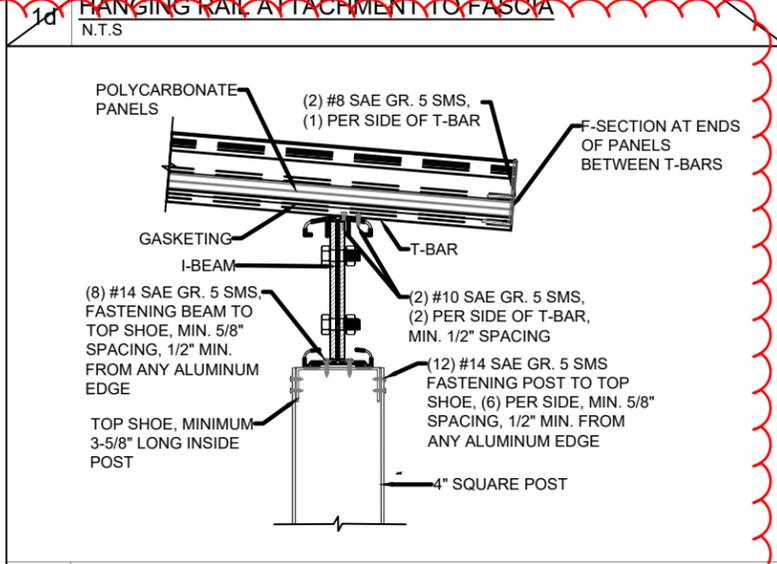
1d HANGING RAIL ATTACHMENT TO FASCIA
N.T.S.



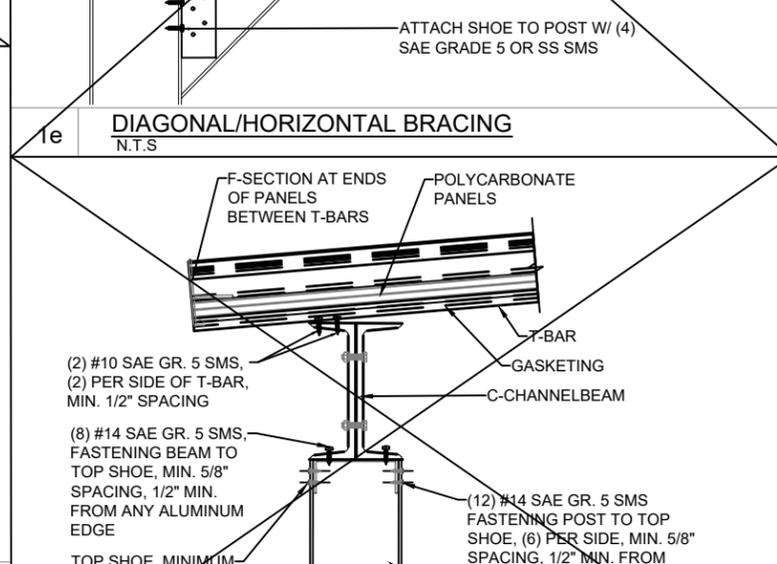
1e DIAGONAL/HORIZONTAL BRACING
N.T.S.



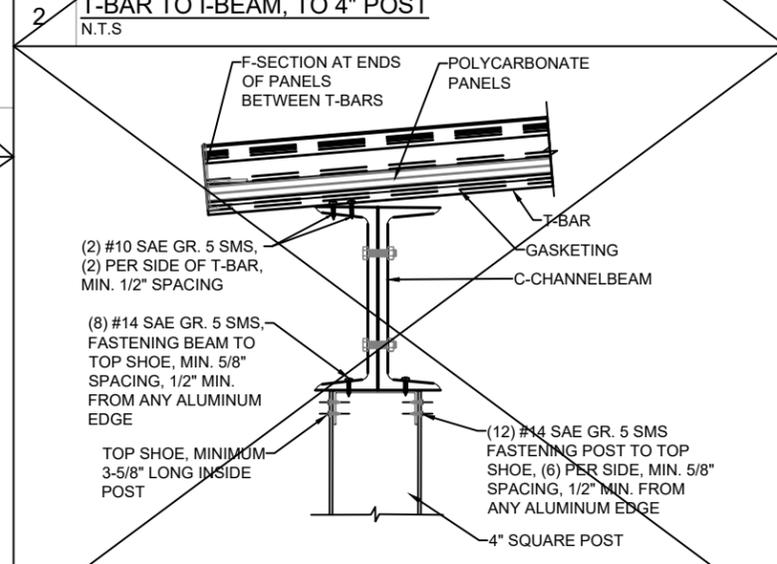
2 T-BAR TO I-BEAM, TO 4\"/>



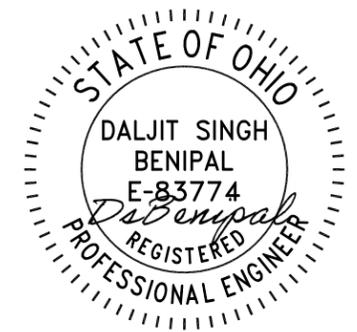
2 T-BAR TO REINFORCED I-BEAM, TO 4\"/>



2 T-BAR TO 6\"/>



2 T-BAR TO 8\"/>



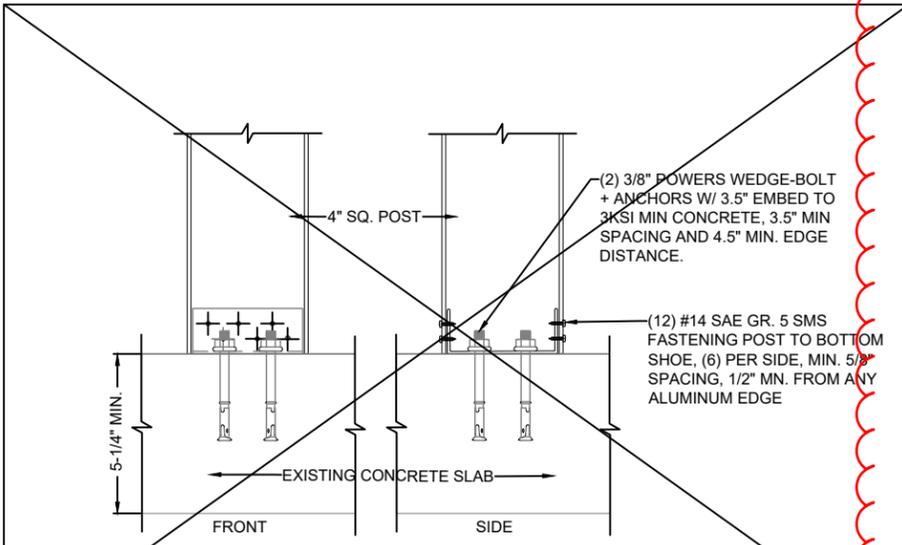
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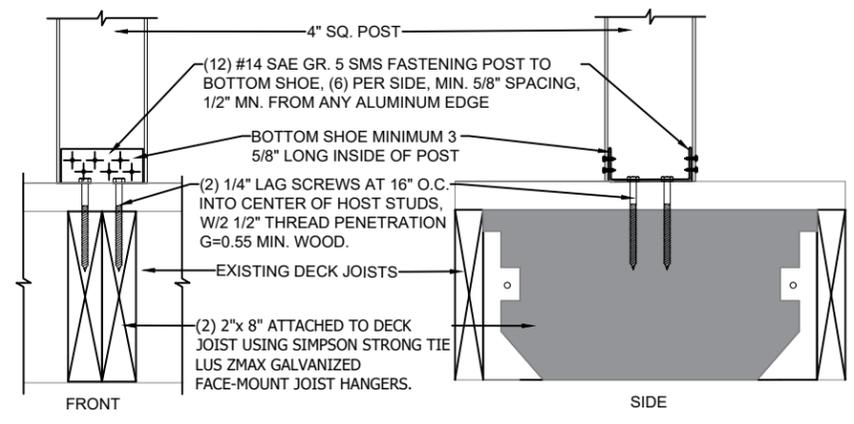
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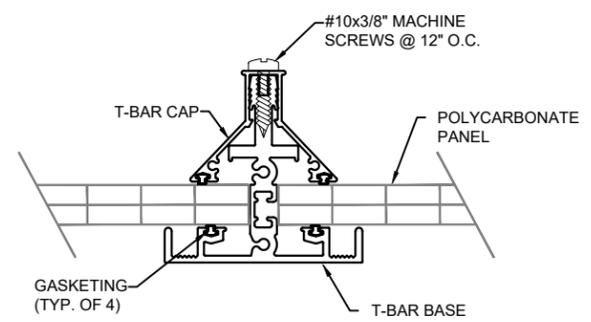
TYPICAL DETAILS



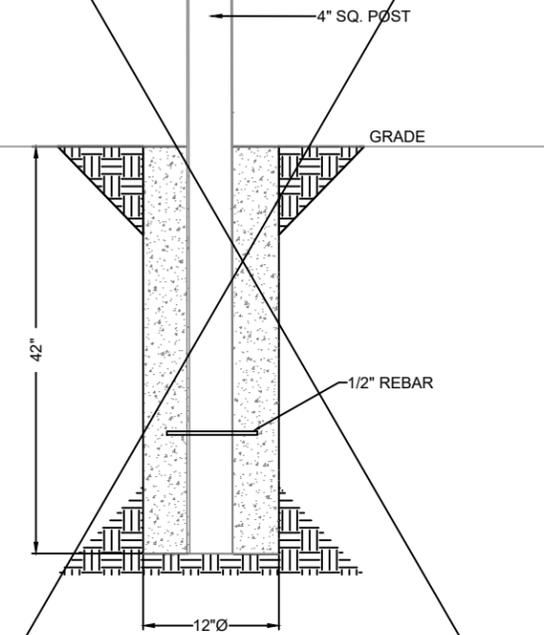
3a **POST ATTACHMENT TO CONCRETE SLAB**
N.T.S



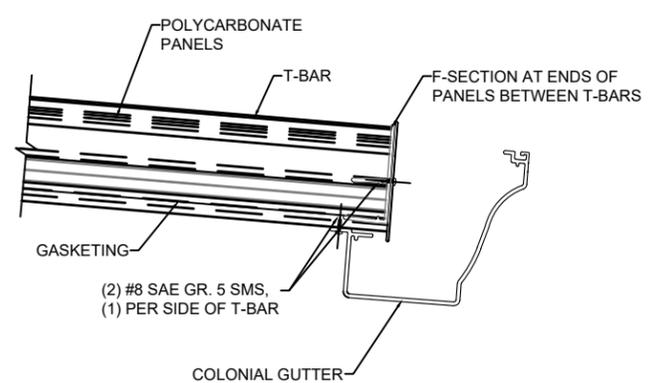
3b **POST ATTACHMENT TO EXISTING DECK JOISTS**
N.T.S



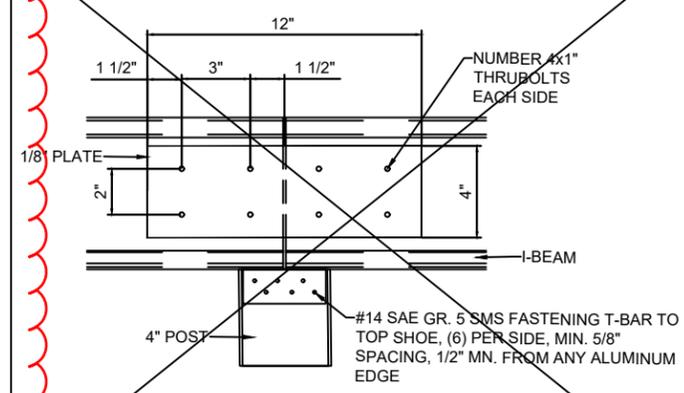
4 **T-BAR DETAIL**
N.T.S



3c **FOOTER DETAIL**
N.T.S



5 **GUTTER ATTACHMENT DETAIL**
N.T.S



6 **SPLICE DETAIL**
N.T.S

Dwn: SL Scale: AS NOTED

Dwg No. 5B Rev. 1

ALUMINUM COMPONENT PROPERTIES

Lexan* International Building Code (IBC) Compliance

LEXAN* Thermoclear and Corrugated Sheet products meet the International Code Council (ICC) requirements for light transmitting plastics as outlined in chapter 26 of the IBC. These requirements include standards for self-ignition, burn rate, smoke density, flame spread and smoke development.

The IBC limits the use of approved plastic materials. Limitations include the size of each panel, distance between panels, as well as building type, height, and location. Consult the prevailing code to ensure compliance.

Self-Ignition Temperature (ASTM D 1929)

Plastic material must have a self-ignition temperature of 650 F or greater. LEXAN* Thermoclear and Corrugated Sheet have a self-ignition temperature of about 1000 F.

Horizontal Burn Rate (ASTM D 635)

Plastic material that have a burning extent of 1 inch or less have a CC1 classification. Plastic materials that have a burning rate of 2.5 inches per minute or less have a CC2 classification. LEXAN* Thermoclear and Corrugated sheet have a CC1 classification since they self extinguish between 0.4 and 1 inch.

Smoke Density (ASTM D 2843)

Plastic material must have a smoke density rating no greater than 75 where tested in the thickness intended for use. LEXAN* Thermoclear, Thermoclick, and Corrugated sheet typically generate a smoke density value between 40-73.

Flame Spread and Smoke Development (ASTM E84)

In order to obtain the Flame Spread Classification, results must fall into a range between 0 and 25 to be Class A, 26-75 for Class B, and 76-200 for Class C. In all cases, Smoke Development must be less than 450. Lexan* Thermoclear, Thermoclick, and Corrugated sheet products have a class A classification.

* Registered trademark(s) of SABIC Innovative Plastics BV 1 Plastics Avenue
Pittsfield, MA 01201
USA
T-413-448-7702
mike.laurin@sabic-ip.com
www.sabic-ip.com

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MEMBER	DIE NO.	ALLOY	AREA (in ²)	S _x (in ³)	S _y (in ³)	I _x (in ⁴)	I _y (in ⁴)
Side Fascia	24089	6063-T5	0.609	0.473	0.0709	1.131	0.071
Heavy Duty T-Bar	-	6061-T6	1.424	0.607	0.428	1.201	0.672
Square Post	24250	6061-T6	0.832	0.713	0.713	0.980	0.980
T-Bar Cap	24251	6061-T6	0.392	0.166	0.110	0.168	0.130
F-Section	24252	6063-T5	0.146	0.008	0.031	0.004	0.029
Hanging Rail	24255	6061-T6	1.064	1.349	0.348	3.264	0.678
Top Shoe	24729	6061-T6	1.064	0.118	0.450	0.131	0.563
Bottom Shoe	24882	6061-T6	0.846	0.140	0.657	0.178	1.810
Colonial Gutter	30111	6063-T5	1.229	0.430	1.890	1.279	5.807
Heavy Duty I-Beam	30278	6061-T6	1.680	3.426	0.691	11.357	1.037

NOTES:

- WHERE HEAVY DUTY I-BEAM IS MENTIONED, THIS INCLUDES ALL BEAMS; REINFORCED, 6" CHANNEL BEAMS AND 8" CHANNEL BEAMS.

PANEL TOLERANCES

GAUGE/WEIGHT	STRUCTURE	WEIGHT	GAUGE	WIDTH	LENGTH < 20FT/6M	LENGTH > 20FT/6M
0.177in 0.205lb/ft2 4.5mm 1.0 kg/m2	2RS	+/- 1%	+/-7%	+/-0.5%	+0.472in +12mm	+1.81in +30mm
0.236in 0.266 lb/ft2 6.0mm 1.3 kg/m2	2RS	+/- 1%	+/-5%	+/-0.5%	+0.472in +12mm	+1.81in +30mm
0.315in 0.348 lb/ft2 8.0mm 1.7 kg/m2	2RS/3TS	+/- 1%	+/-5%	+/-0.5%	+0.472in +12mm	+1.81in +30mm
0.394in 0.409 lb/ft2 16.0mm 2.0 kg/m2	2RS/3TS	+/- 1%	+/-5%	+/-0.5%	+0.472in +12mm	+1.81in +30mm
0.63in 0.573 lb/ft2 16.0mm 2.8 kg/m2	3TS	+/- 2%	+/-3%	+/-0.5%	+0.472in +12mm	+1.81in +30mm
0.787in 0.614 lb/ft2 20.0mm 3.0 kg/m2	3TS	+/- 2%	+/-3%	+/-0.5%	+0.472in +12mm	+1.81in +30mm
0.984in 0.655 lb/ft2 25.0mm 3.2 kg/m2	3TS	+/- 2%	+/-3%	+/-0.5%	+0.472in +12mm	+1.81in +30mm

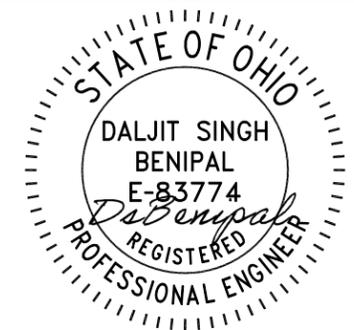
NOTES:

- THE LEXAN THERMOCLEAR 15 POLYCARBONATE SHEETS (TM) ARE MANUFACTURED BY SAUDI BASIC INDUSTRIES CORPORATION (SABIC).
- ALL TESTS, INCLUDING TOLERANCES, IMPACT TESTING, WEATHER RESISTANCE AND FIRE RATING, ON THE LEXAN THERMOCLEAR 15 POLYCARBONATE SHEETS (TM) HAVE BEEN CONDUCTED BY SABIC. ALL CONCLUSIONS AND CALCULATIONS HEREIN ARE PROVIDED BY SABIC PRODUCT DATA.



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SPECIFICATIONS

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- A. DESIGN CRITERIA
- THE BRIGHTCOVERS CANOPY SYSTEM IS A PRE-MANUFACTURED PRODUCT AND SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE STRUCTURAL REQUIREMENTS SET FORTH IN THE 2019 OHIO RESIDENTIAL CODE (ORC) AND THE 2017 OHIO BUILDING CODE (OBC).
 - ALL STRUCTURAL ELEMENTS AND SYSTEMS MADE OF ALUMINUM CONFORM TO AA ALUMINUM DESIGN MANUAL (ADM) 2020 REQUIREMENTS.
 - ALL ALUMINUM ALLOYS CONFORM TO THE AA ALUMINUM STANDARDS AND DATA 2017.
 - THE APPLICABLE STRUCTURAL LOADS HAVE BEEN TAKEN INTO ACCOUNT IN ACCORDANCE WITH THE ASCE 7-10 (MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES).

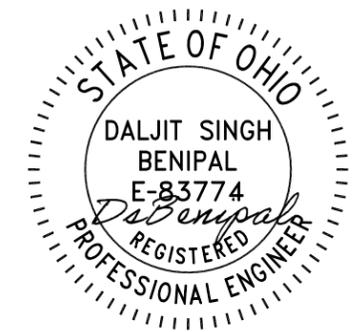
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SNOW LOAD
TABLES

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SCHEDULE 1

DESIGN PRESSURES (PSF)					
BASIC WIND SPEED	LIVE/SNOW LOAD	EXPOSURE	BEAMS AND T-BARS	COLUMNS	LATERAL DESIGN PRESSURES
115	30	B	+35.6/-11.9	+34.8/-10.5	+18.1/-12.1

SCHEDULE 2

T-BAR SPANS				
LIVE/SNOW LOAD (PSF)	PANEL SPAN 24"		PANEL SPAN 48"	
	OVERHANG (FT)	MAX SPAN (FT)	OVERHANG (FT)	MAX SPAN (FT)
25	0	14.50	0	10.25
	1	14.50	1	10.25
	2	14.75	2	10.50
	3	15.00	3	10.75
30	0	14.00	0	10.00
	1	14.25	1	10.00
	2	14.25	2	10.25
	3	15.00	3	10.00

SCHEDULE 3

PANEL SPANS			
BASIC WIND SPEED	LIVE/SNOW LOAD	EXPOSURE	ALLOWABLE PANEL SPAN
115	30	B	32"

1

SCHEDULE 4

BEAM SPANS								
BEAM	BASIC WIND SPEED	LIVE/SNOW LOAD	EXPOSURE	ALLOWABLE BEAM SPAN INTERIOR	ALLOWABLE BEAM SPAN END W/ 0' OH	ALLOWABLE BEAM SPAN END W/ 1' OH	ALLOWABLE BEAM SPAN END W/ 2' OH	ALLOWABLE BEAM SPAN END W/ 3' OH
REINFORCED I-BEAM	115	30	B	216.00"	216.00"	216.00"	216.00"	210.84"
6" CHANNEL BEAM				288.00"	288.00"	288.00"	288.00"	288.00"
8" CHANNEL BEAM				288.00"	288.00"	288.00"	288.00"	288.00"

















