OGB - CONCEPT SUBMISSION

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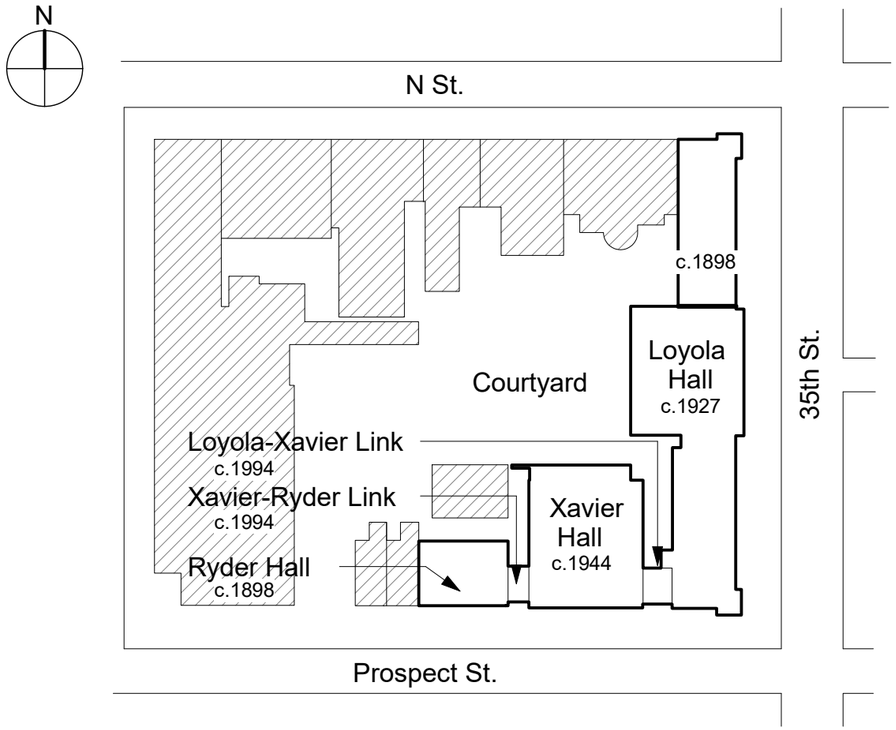
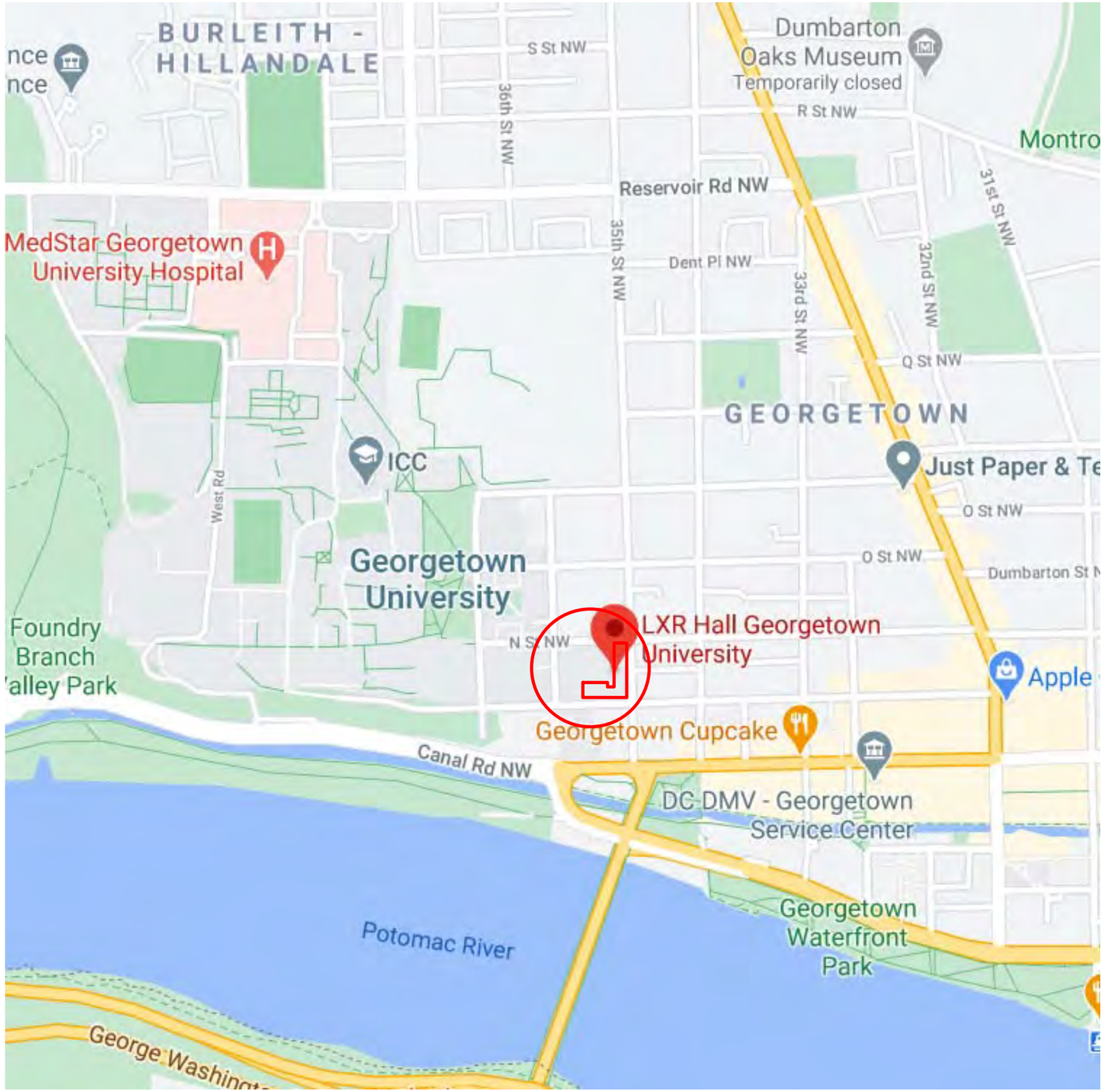
01/13/2021
STUDIO MB



PROJECT SCOPE :

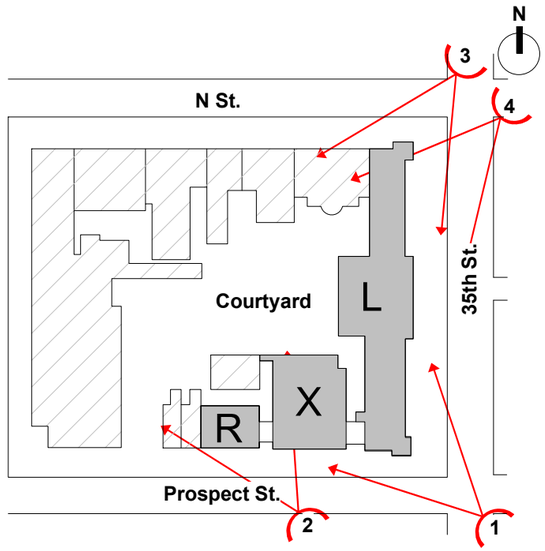
The Project is limited to the replacement of all windows and supporting adjacent elements (interior and exterior) throughout Loyola, Xavier and Ryder Halls (LXR Hall) including new waterproofing at the interior jambs, heads and sills as well as remedial interior repairs. All other facade elements are existing to remain.



PROJECT LOCATION MAP

1.LOYOLA HALL SOUTH-EAST ELEVATION - 1944

2.XAVIER HALL SOUTH-WEST ELEVATION - PROSPECT STREET - 1956



3.LOYOLA HALL NORTH-EAST ELEVATION - 1944

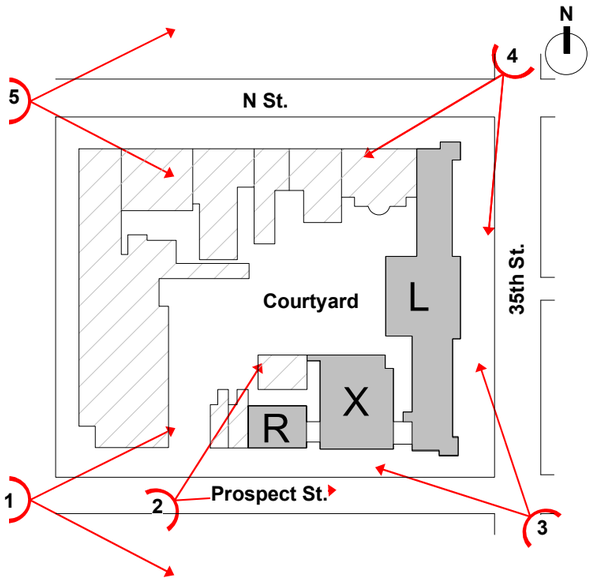
3.LOYOLA HALL NORTH-EAST ELEVATION - 1910

4.LOYOLA HALL ENTRANCE NORTH-EAST ELEVATION

HISTORIC IMAGES

1.RYDER HALL / XAVIER HALL- PROSPECT STREET SOUTH-WEST

2.RYDER HALL / XAVIER HALL- PROSPECT STREET SOUTH-WEST



3.LOYOLA HALL / XAVIER HALL- 35TH STREET SOUTH-EAST

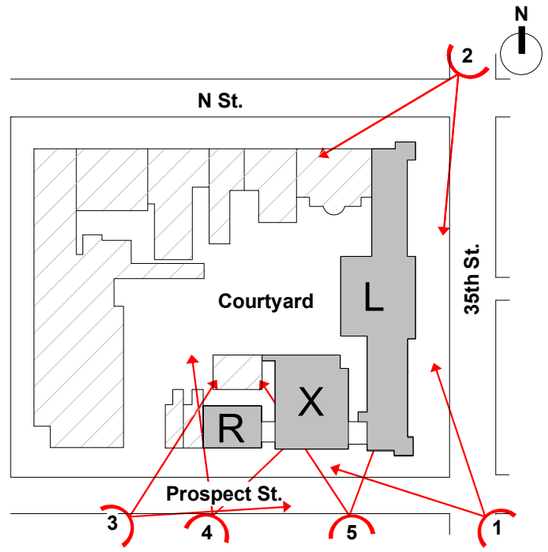
4.LOYOLA HALL - 35TH STREET NORTH-EAST

5.LOYOLA HALL - N STREET NORTH - WEST

STREET VIEWS - CONTEXT

1.LOYOLA HALL SOUTH-EAST ELEVATION - 35TH ST.

2.LOYOLA HALL NORTH-EAST ELEVATION - N ST.



3.RYDER HALL- XAVIER HALL- SOUTH ELEVATION - PROSPECT ST.

4.RYDER HALL- PROSPECT ST.

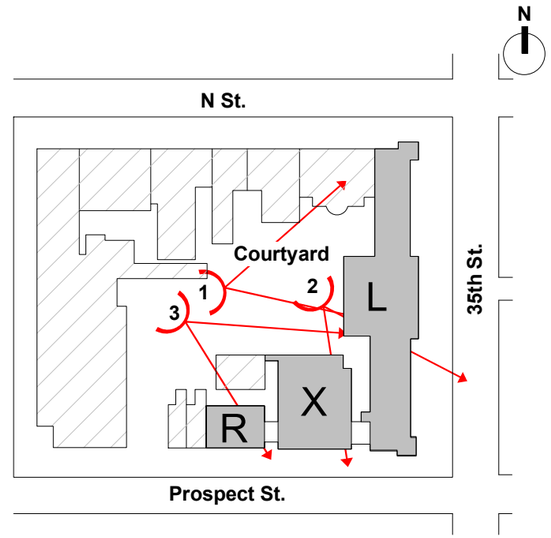
5.XAVIER HALL- PROSPECT ST.

STREET VIEWS

1.LOYOLA WEST ELEVATION

2.LOYOLA WEST ELEVATION

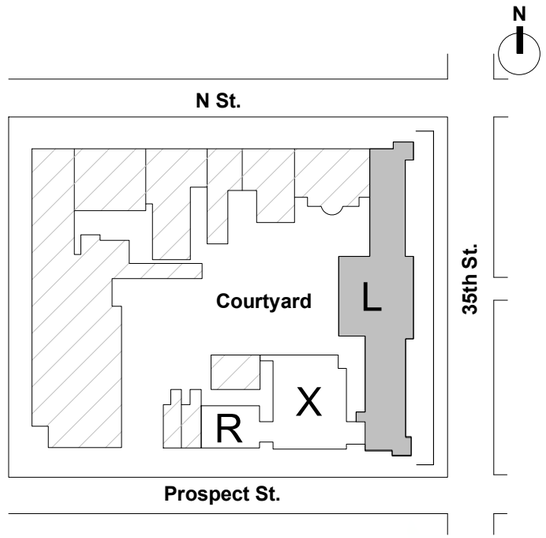
3.XAVIER HALL NORTH ELEVATION



COURTYARD VIEWS

PROPOSED WINDOW LEGEND :

A = EXISTING WINDOWS TO REMAIN (NOT IN SCOPE)
B = EXISTING HISTORIC WINDOWS TO BE RESTORED
C1 = NEW DOUBLE PANE WOOD WINDOW
C2 = NEW DOUBLE PANE WOOD WINDOW WITH SIMULATED DIVIDED LIGHT
C3 = NEW DOUBLE PANE ALUMINUM CLAD WOOD WINDOW



EAST ELEVATION - 35TH STREET

0' 4' 8' 16'

STREET ELEVATION - LOYOLA HALL

StudioMB

PROPOSED WINDOW LEGEND :

A = EXISTING WINDOWS TO REMAIN (NOT IN SCOPE)
B = EXISTING HISTORIC WINDOWS TO BE RESTORED
C1 = NEW DOUBLE PANE WOOD WINDOW
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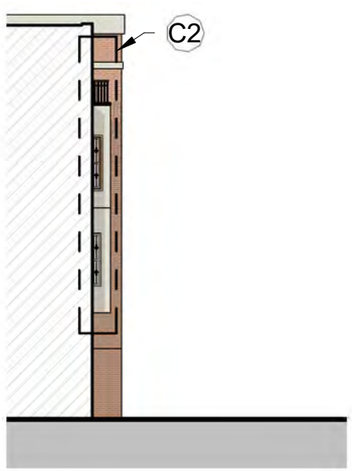
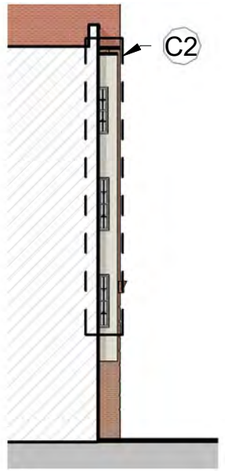
C3 = NEW DOUBLE PANE ALUMINUM CLAD WOOD WINDOW

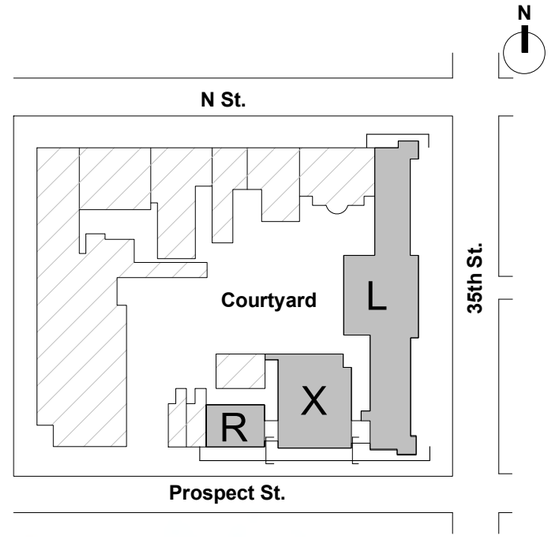


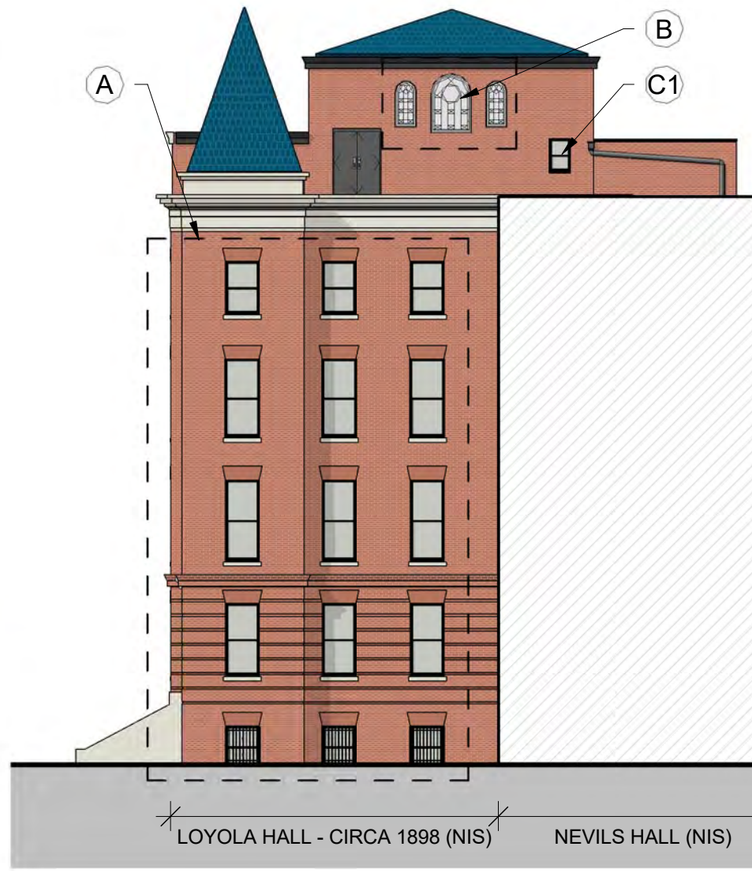
X-R LINK



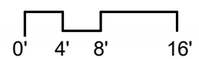
L-X LINK

SOUTH ELEVATION





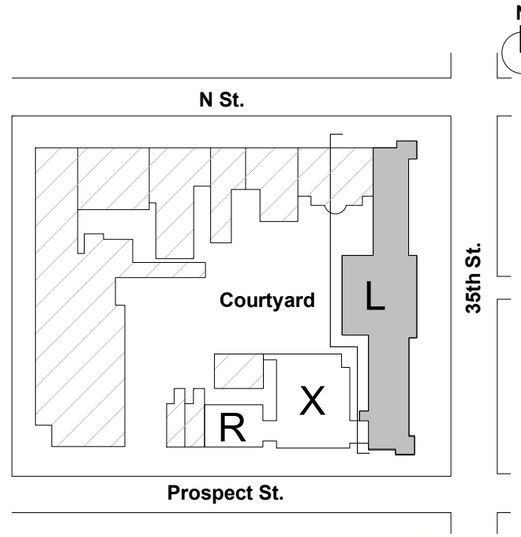
NORTH ELEVATION

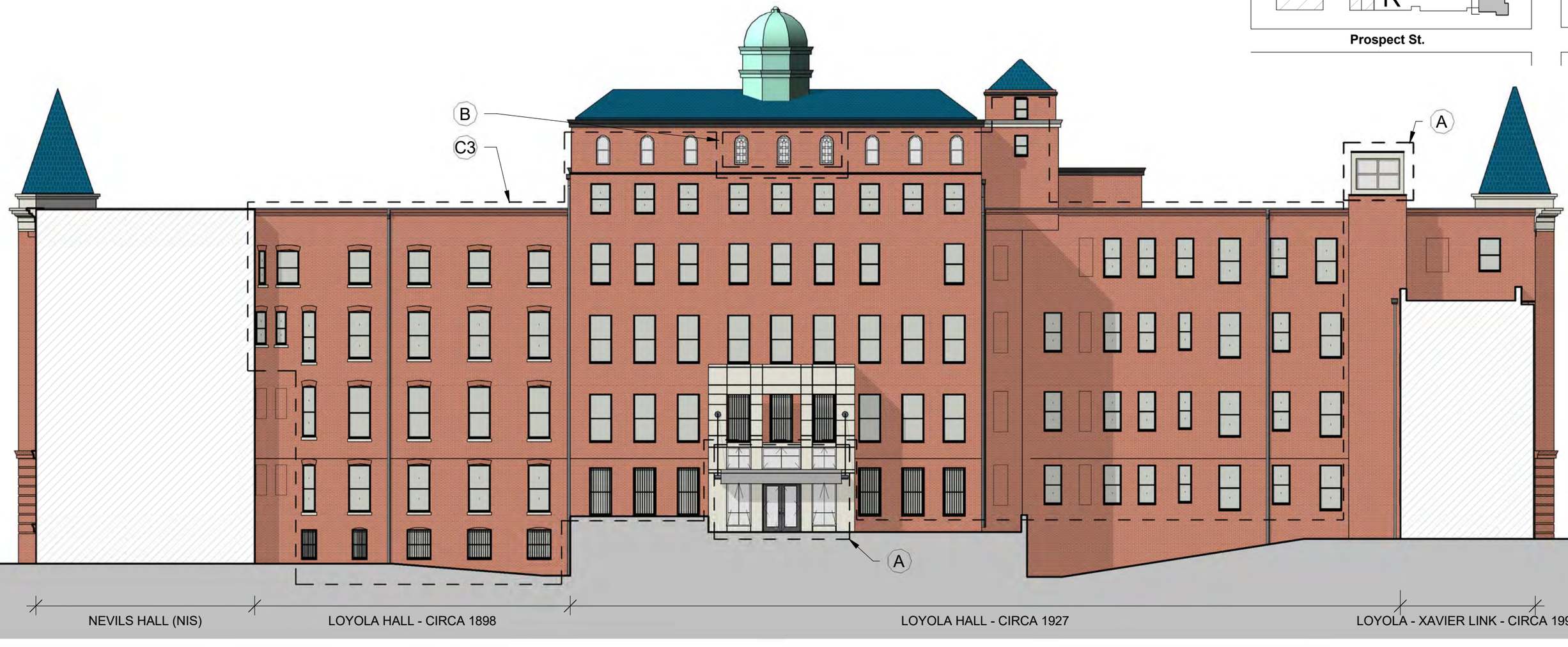


STREET ELEVATIONS

PROPOSED WINDOW LEGEND :

A = EXISTING WINDOWS TO REMAIN (NOT IN SCOPE)
B = EXISTING HISTORIC WINDOWS TO BE RESTORED
C1 = NEW DOUBLE PANE WOOD WINDOW
C2 = NEW DOUBLE PANE WOOD WINDOW WITH SIMULATED DIVIDED LIGHT
C3 = NEW DOUBLE PANE ALUMINUM CLAD WOOD WINDOW





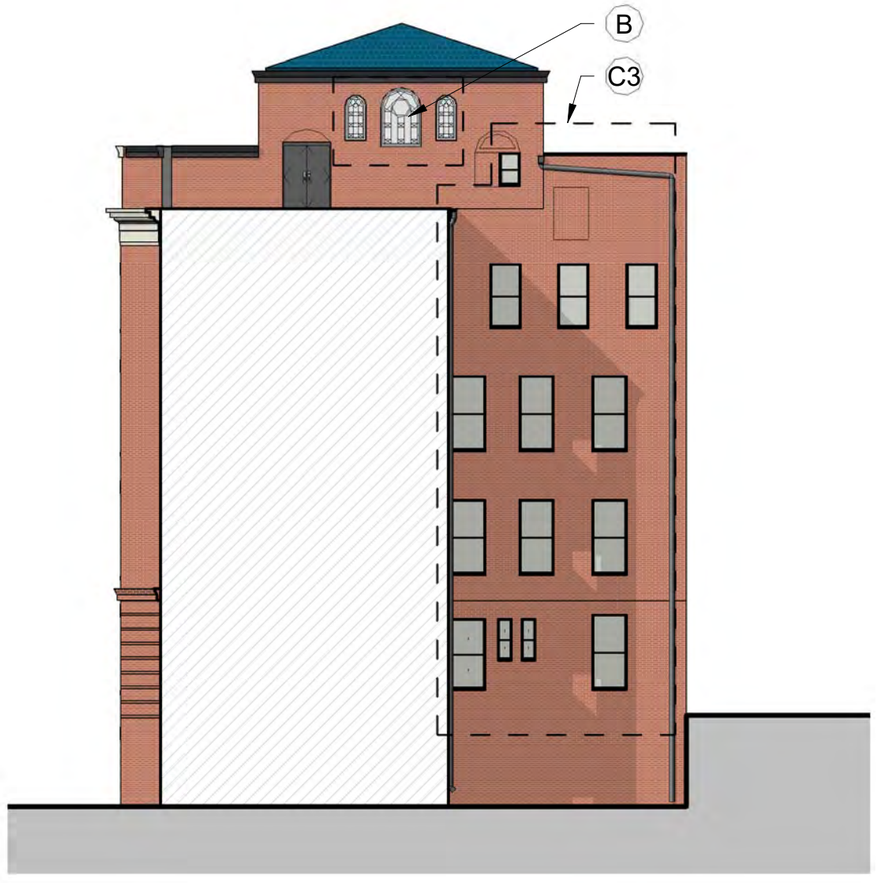
WEST ELEVATION

0' 4' 8' 16'

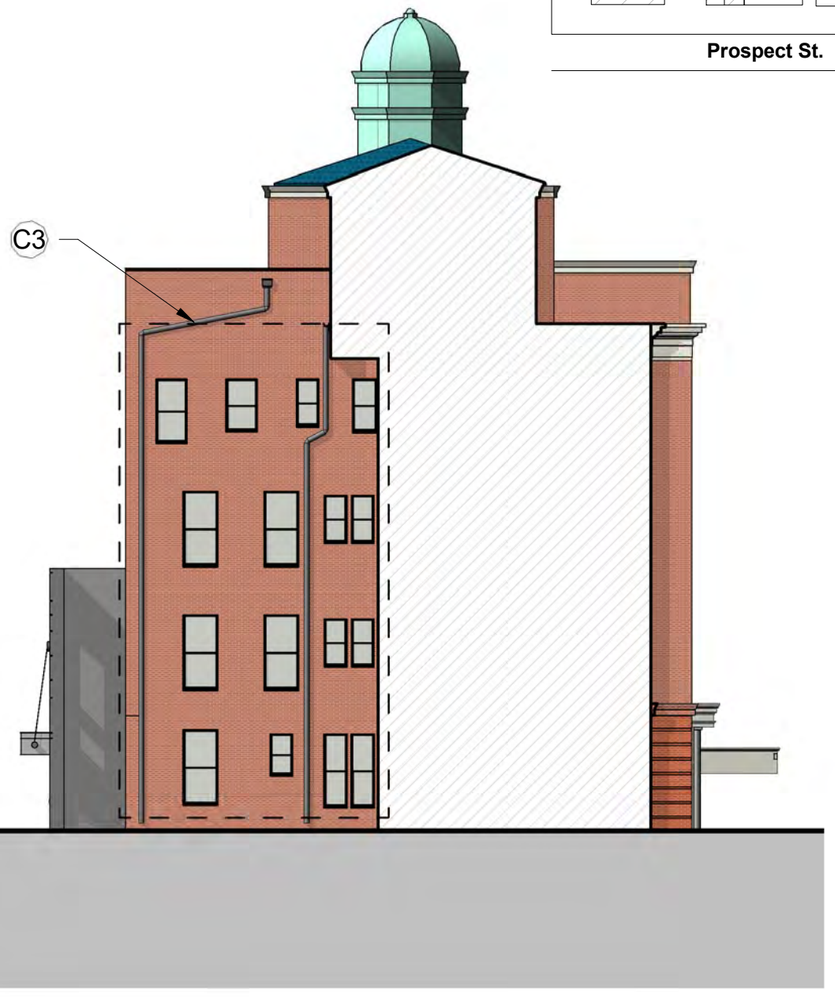
COURTYARD ELEVATION - LOYOLA HALL

PROPOSED WINDOW LEGEND :

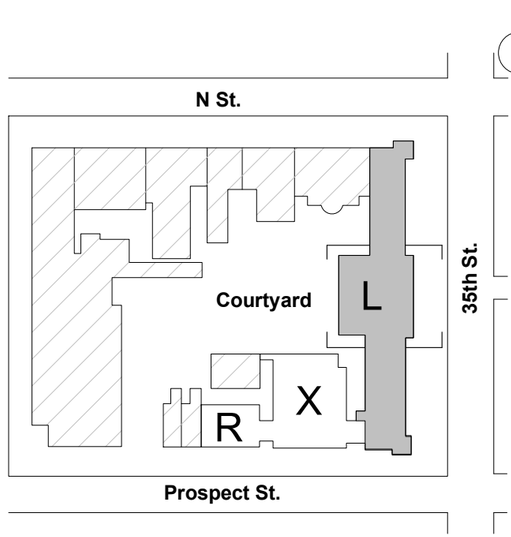
A = EXISTING WINDOWS TO REMAIN (NOT IN SCOPE)
B = EXISTING HISTORIC WINDOWS TO BE RESTORED
C1 = NEW DOUBLE PANE WOOD WINDOW
C2 = NEW DOUBLE PANE WOOD WINDOW WITH SIMULATED DIVIDED LIGHT
C3 = NEW DOUBLE PANE ALUMINUM CLAD WOOD WINDOW



NORTH ELEVATION



SOUTH ELEVATION

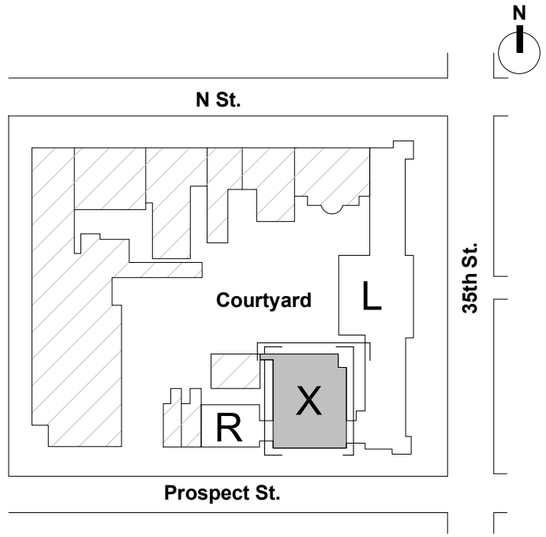


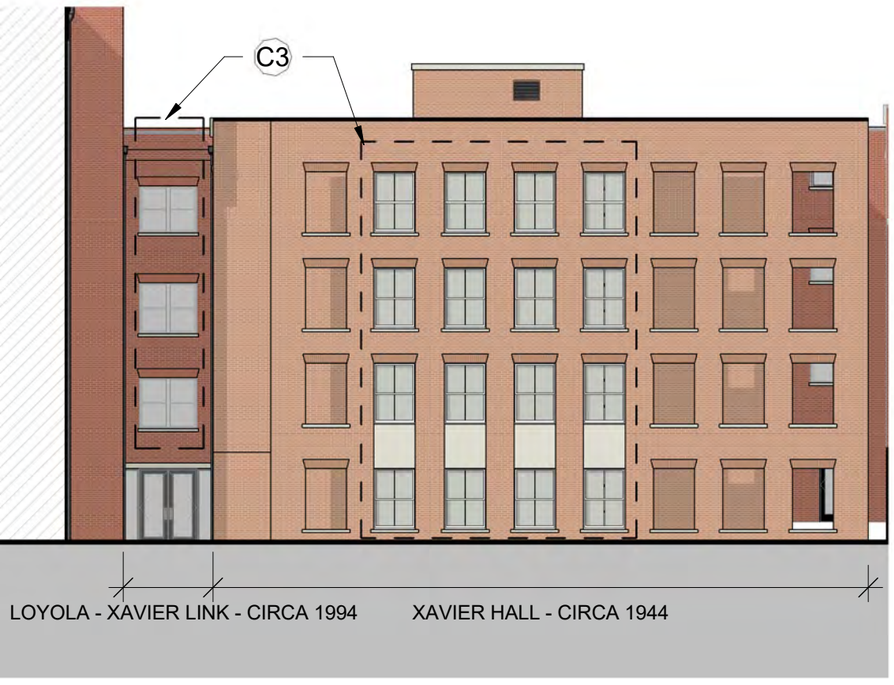
0' 4' 8' 16'

COURTYARD ELEVATIONS - LOYOLA HALL

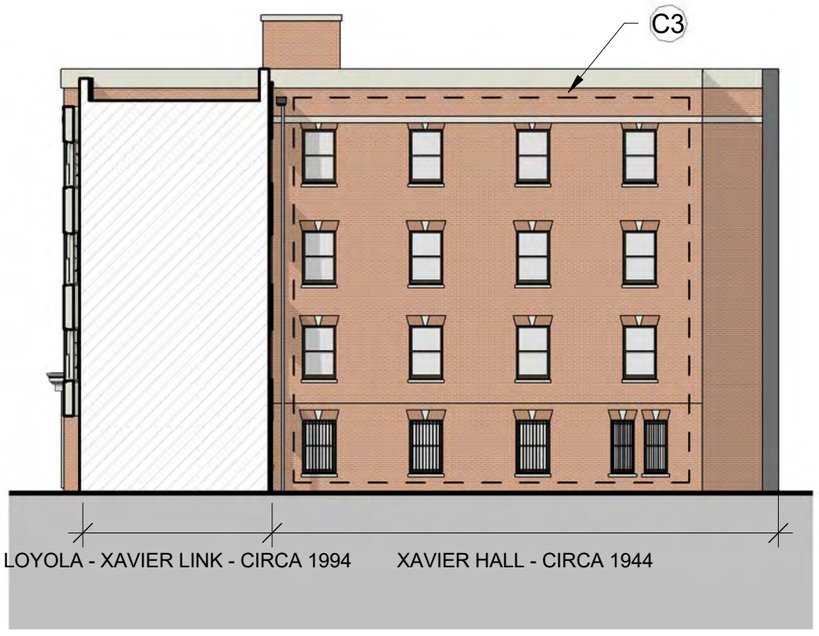
PROPOSED WINDOW LEGEND :

A = EXISTING WINDOWS TO REMAIN (NOT IN SCOPE)
B = EXISTING HISTORIC WINDOWS TO BE RESTORED
C1 = NEW DOUBLE PANE WOOD WINDOW
C2 = NEW DOUBLE PANE WOOD WINDOW WITH SIMULATED DIVIDED LIGHT
C3 = NEW DOUBLE PANE ALUMINUM CLAD WOOD WINDOW

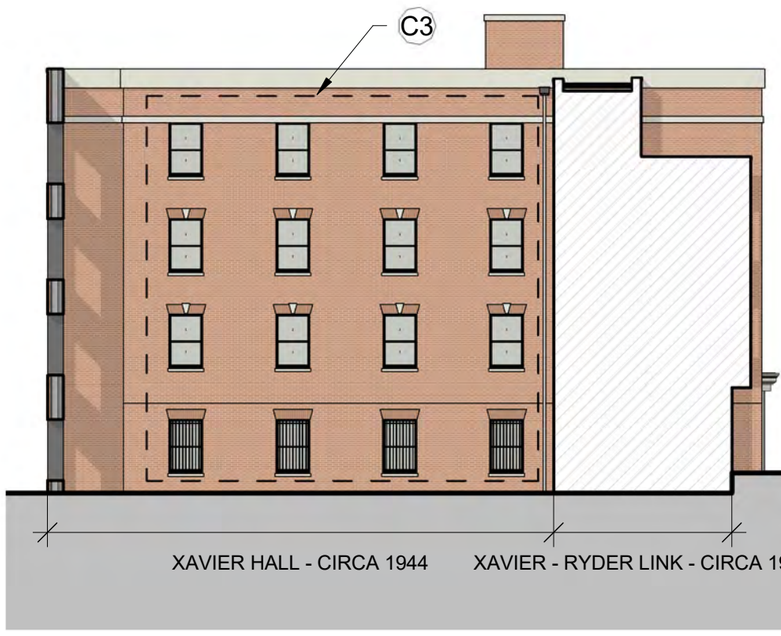




NORTH ELEVATION



EAST ELEVATION



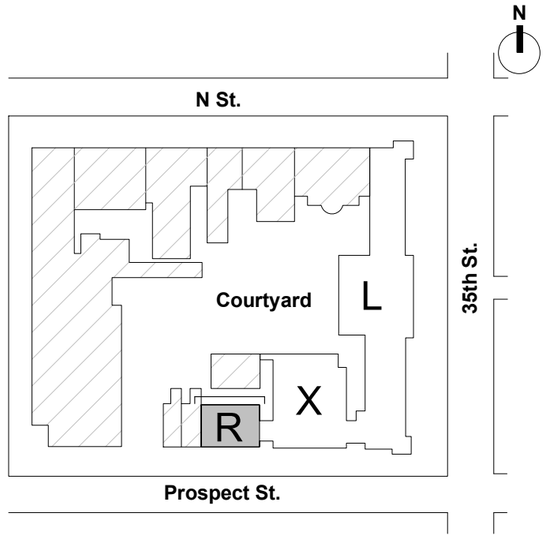
WEST ELEVATION

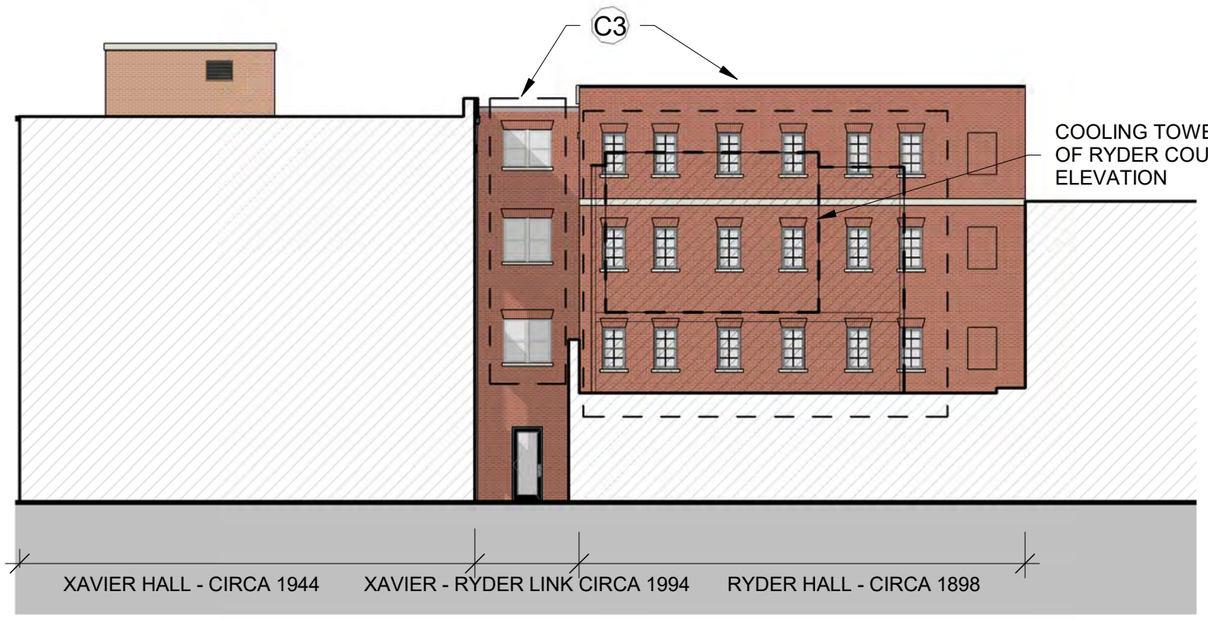
0' 4' 8' 16'

COURTYARD ELEVATIONS - XAVIER HALL

PROPOSED WINDOW LEGEND :

A = EXISTING WINDOWS TO REMAIN (NOT IN SCOPE)
B = EXISTING HISTORIC WINDOWS TO BE RESTORED
C1 = NEW DOUBLE PANE WOOD WINDOW
C2 = NEW DOUBLE PANE WOOD WINDOW WITH SIMULATED DIVIDED LIGHT
C3 = NEW DOUBLE PANE ALUMINUM CLAD WOOD WINDOW

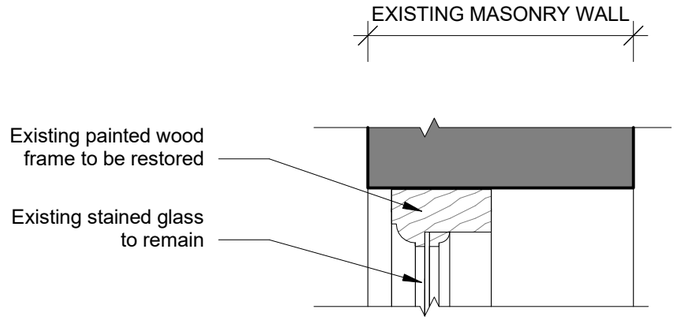




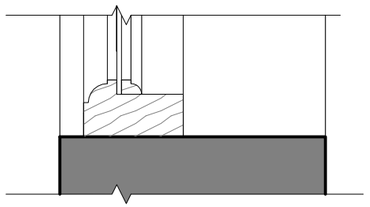
NORTH ELEVATION

0' 4' 8' 16'

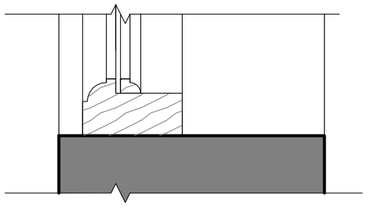
COURTYARD ELEVATION - RYDER HALL



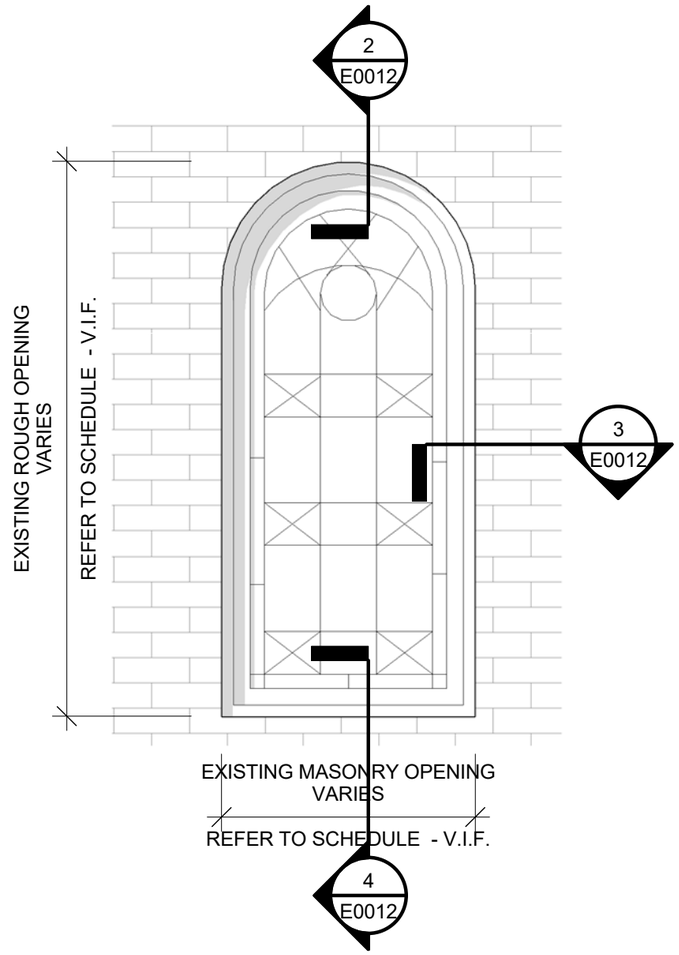
2 | TYPE B DETAIL @ HEADER
1 1/2" = 1'-0"



3 | TYPE B DETAIL @ JAMB
1 1/2" = 1'-0"



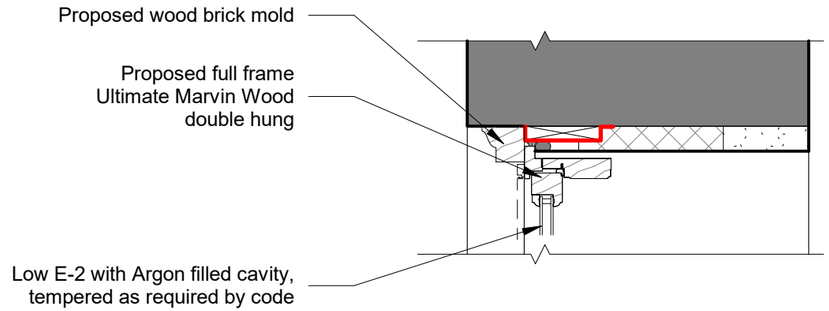
4 | TYPE B DETAIL @ SILL
1 1/2" = 1'-0"



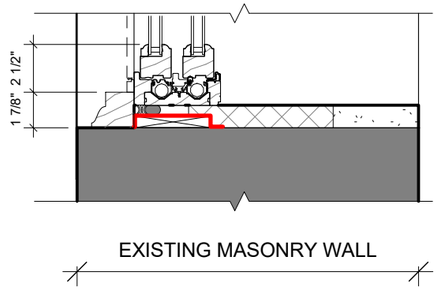
1 | TYPE B ELEVATION
3/4" = 1'-0"

TYPICAL SIZE: 2'-2" x 4'-10"
QUANTITY: 9

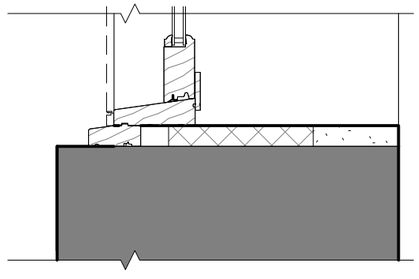
TYPE B - WINDOW DETAILS



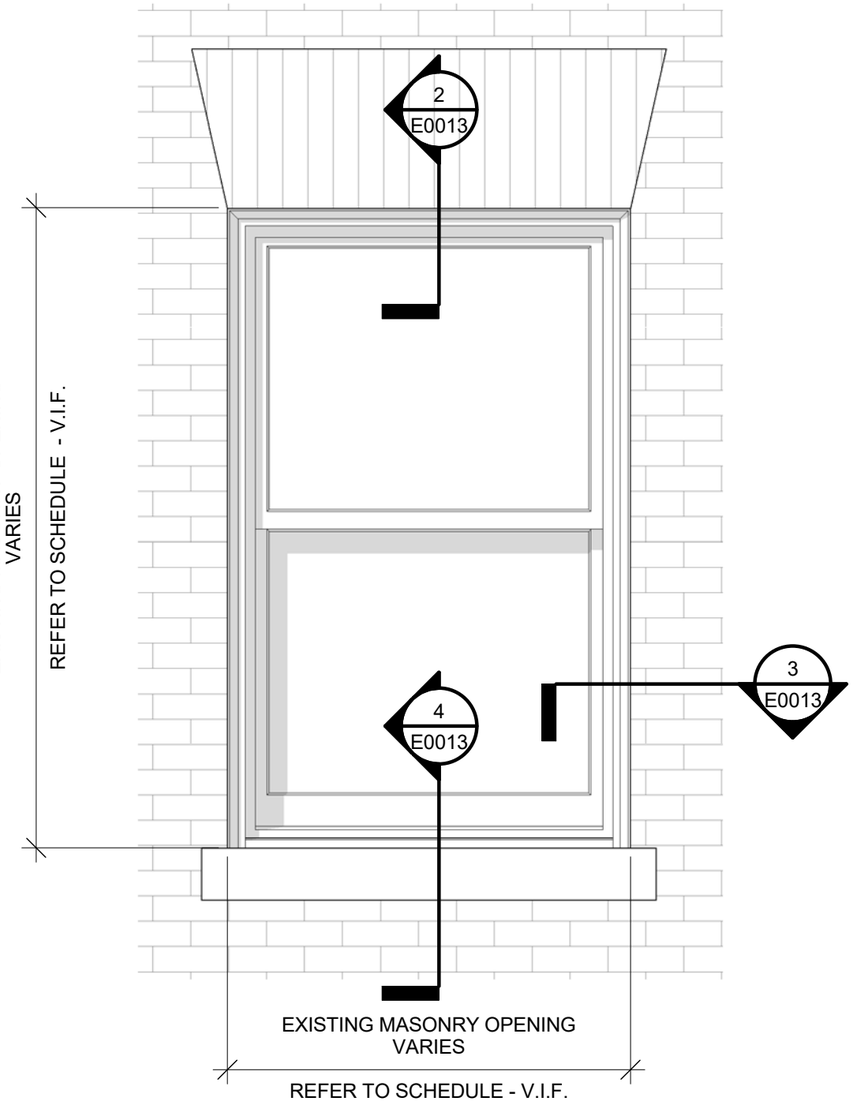
2 | TYPE C1 DETAIL @ HEADER
1 1/2" = 1'-0"



3 | TYPE C1 DETAIL @ JAMB
1 1/2" = 1'-0"



4 | TYPE C1 DETAIL @ SILL
1 1/2" = 1'-0"

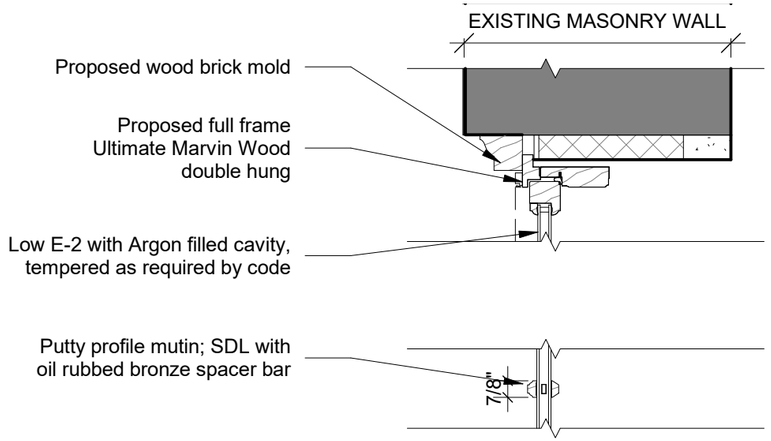


1 | TYPE C1 ELEVATION
3/4" = 1'-0"

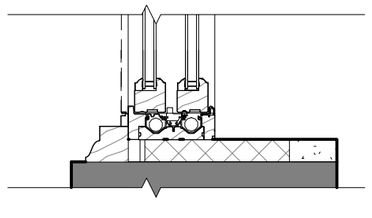
SIZE RANGE: 2'-2" to 3'-6" W
3'-7" to 8'-7" H

QUANTITY: 162

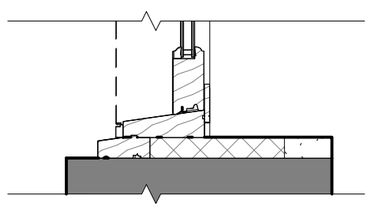
TYPE C1 - WINDOW DETAILS



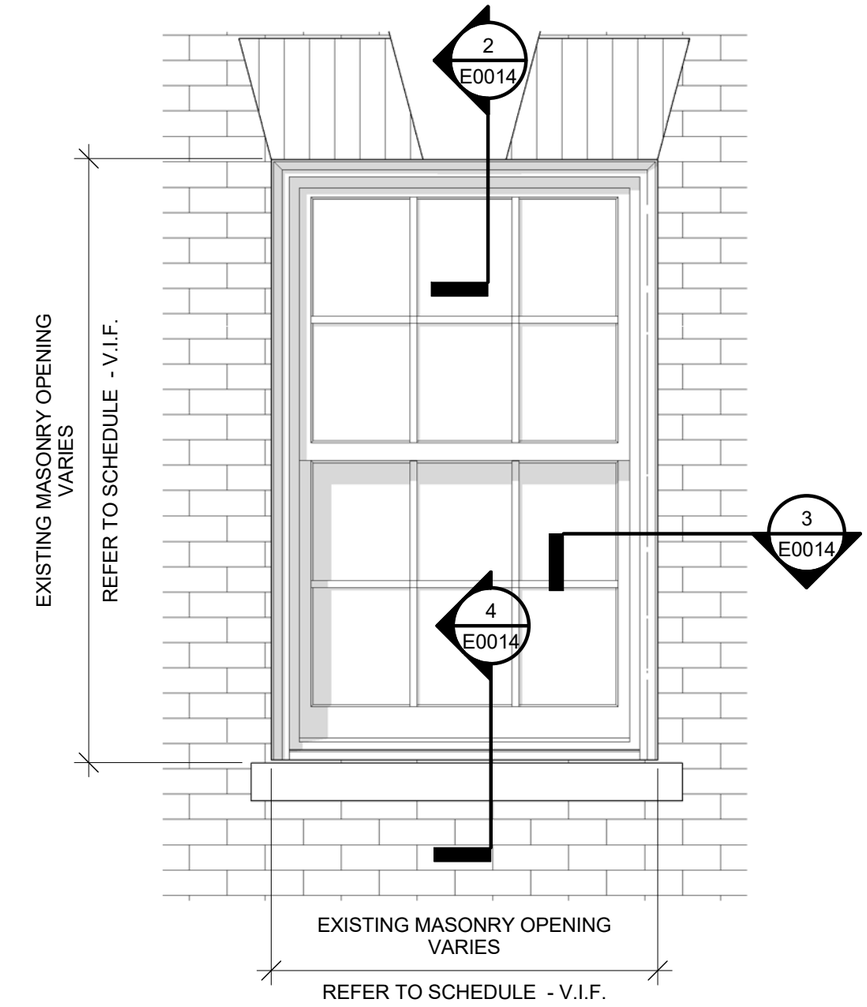
2 | TYPE C2 DETAIL @ HEADER
1 1/2" = 1'-0"



3 | TYPE C2 DETAIL @ JAMB
1 1/2" = 1'-0"



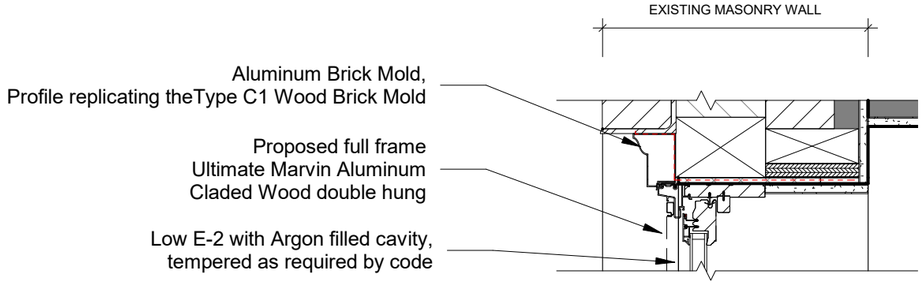
4 | TYPE C2 DETAIL @ SILL
1 1/2" = 1'-0"



1 | TYPE C2 ELEVATION
3/4" = 1'-0"

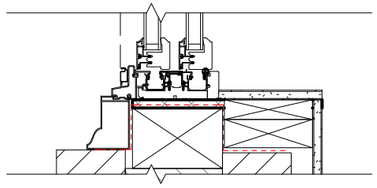
SIZE RANGE: 1'-1" to 5'3" W
5'-7" to 3'-4" H
QUANTITY: 86

TYPE C2 - WINDOW DETAILS



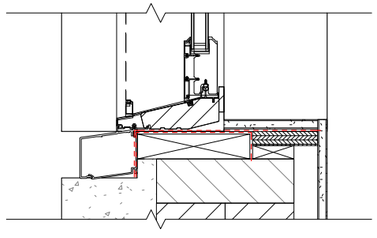
2 | TYPE C3 DETAIL @ HEADER

1 1/2" = 1'-0"



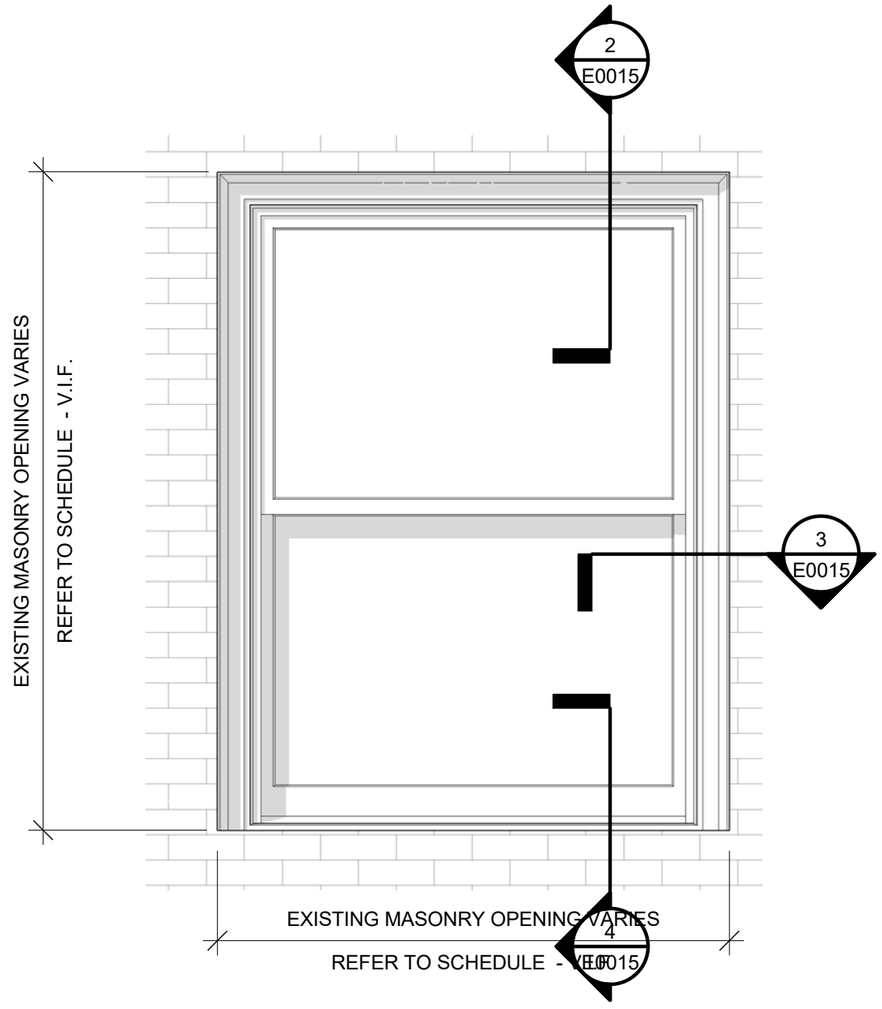
3 | TYPE C3 DETAIL @ JAMB

1 1/2" = 1'-0"



4 | TYPE C3 DETAIL @ SILL

1 1/2" = 1'-0"



1 | TYPE C3 - ELEVATION

3/4" = 1'-0"

SIZE RANGE: 2'-2" to 3'-6" W
3'-7" to 8'-7" H

QUANTITY: 208

TYPE C3 - WINDOW DETAILS

REPRESENTATIVE DATA

WINDOW TYPE	POTENTIAL WINDOW TYPE	INTERIOR STORM WINDOW	TYPE OF GLASS AT STORM WINDOW	U-VALUE	WARRANTY	QUANTITY
WOOD D/HUNG SINGLE PANE	TYP C1+C2	YES When interior sash open	CLEAR	.47 -.51* 1.01	10 YEARS FOR WINDOW, 5 YEARS FOR INTERIOR STORM WINDOW	248
WOOD D/HUNG DOUBLE PANE LOW E2 with Argon	TYP C1+C2	NO	N/A	.25 -.31**	10 YEARS	248
WOOD D/HUNG CLAD ALUM. DOUBLE PANE LOW E2 with Argon	TYP C3	NO	N/A	.23- .30**	20 YEARS	208

*source: Allied Window Manufacturer - AIA-Certified
**source: Marvin.com

SELECTED INSULATED GLAZING DATA (from Cardinal Corp Product sheets)

		VISIBLE LIGHT				CENTER OF GLASS U-VALUE (BTU/hr/ft²/°F)		CENTER OF GLASS INDOOR GLASS TEMPATURE (°F)		
			REFLECTANCE							
EXTERIOR GLASS	INTERIOR GLASS	TRANS.	OUT	IN	SGHC	AIR	ARGON	WINTER	SUMMER	UV TRANS%
CLEAR	LowE 180 #3	79%	15%	15%	0.68	0.31	0.26	51		0.28
CLEAR	LowE 270 #3	70%	12%	13%	0.37	0.30	0.25	52		0.14

3mm glass / 13.0mm airspace / 3mm glass
(⅛" glass – ½" airspace – ⅛" glass)

Exterior Glass	Interior Glass	Visible Light			SHGC	Center of Glass U-Value (BTU/hr/ft²/°F)		Center of Glass Indoor Glass Temperature (°F)		UV
			Reflectance							
		Trans	Out	In		Air	Argon	Winter	Summer	Trans
Clear	Clear	82%	15%	15%	0.78	0.48	0.46	45	90	58%
Clear	LoÉ-i89® (#3)	80%	15%	14%	0.75	0.33	0.29	54	98	55%
Clear	LoÉ-180 ESC™ (#3)	79%	15%	15%	0.71	0.31	0.27	55	94	25%
Clear	LoÉ-180® (#3)	79%	15%	15%	0.69	0.31	0.26	55	94	29%
Clear	LoÉ-Di89™ (#3 & #4)	79%	14%	14%	0.71	0.26	0.23	44	122	52%
LoÉ-180 ESC™ (#2)	Clear	79%	15%	15%	0.67	0.31	0.27	55	87	25%
LoÉ-180® (#2)	Clear	79%	15%	15%	0.64	0.31	0.26	55	87	29%
LoÉ²-272® (#2)	Clear	72%	11%	12%	0.41	0.30	0.25	56	84	16%
LoÉ²-270® (#2)	Clear	70%	12%	13%	0.37	0.30	0.25	56	83	14%
LoÉ³-366® (#2)	Clear	65%	11%	12%	0.27	0.29	0.24	56	82	5%
Quad LoÉ-452+™ (#2)	Clear	52%	10%	15%	0.22	0.29	0.24	56	83	1%
LoÉ²-240® (#2)	Clear	40%	14%	11%	0.25	0.30	0.26	55	86	16%
LoÉ³-340® (#2)	Clear	39%	13%	16%	0.18	0.29	0.25	56	83	2%
LoÉ-180® ESC™ (#2)	LoÉ-i89® (#4)	78%	15%	14%	0.64	0.24	0.21	46	107	24%
LoÉ-180® (#2)	LoÉ-i89® (#4)	77%	15%	14%	0.62	0.24	0.21	46	105	27%
LoÉ²-272® (#2)	LoÉ-i89® (#4)	70%	11%	11%	0.41	0.23	0.20	47	94	16%
LoÉ²-270® (#2)	LoÉ-i89® (#4)	68%	12%	13%	0.36	0.23	0.20	47	93	14%
LoÉ³-366® (#2)	LoÉ-i89® (#4)	63%	11%	12%	0.27	0.23	0.20	48	90	5%
Quad LoÉ-452+™ (#2)	LoÉ-i89® (#4)	51%	10%	14%	0.21	0.23	0.20	48	91	1%
LoÉ²-240® (#2)	LoÉ-i89® (#4)	39%	14%	10%	0.24	0.24	0.21	47	95	15%
LoÉ³-340® (#2)	LoÉ-i89® (#4)	38%	13%	15%	0.17	0.23	0.20	47	91	2%

Notes:
(1) Data was calculated using LBNL Window computer program with winter & summer NFRC environmental conditions.
(2) Calculations based on 90% Argon gas fill level.
(3) Shading Coefficient (SC) can be calculated by dividing SHGC by 0.87.
(4) The UV Transmittance is determined as an average for wavelengths 310 -380 nm.