AGENDA
CITY OF LAKEWOOD
BOARD OF BUILDING STANDARDS/
ARCHITECTURAL BOARD OF REVIEW/SIGN REVIEW

PRE-REVIEW MEETING
NOVEMBER 4, 2021 at 4:00 P.M.
EAST CONFERENCE ROOM

REVIEW MEETING
NOVEMBER 11, 2021 at 5:30 P.M.
LAKEWOOD CITY HALL
AUDITORIUM

1. Roll Call

2. Approve the minutes of the October 14, 2021 Meeting

3. Opening Remarks

OLD BUSINESS
ARCHITECTURAL BOARD OF REVIEW

4. Docket No. 09-128-21 **R** **17788 Edgewater Rd.**

( ) Approve
( ) Deny
( ) Defer

Andrew Erker
ACE Design LLC
1361 Gladys Ave.
Lakewood, OH 44107

Applicant proposes an addition and renovation of an existing home. (Page 3)

REQUEST FOR MODIFICATIONS
ARCHITECTURAL BOARD OF REVIEW

5. Docket No. 11-145-21 **R** **1468 Riverside Dr.**

( ) Approve
( ) Deny
( ) Defer

Daniel Margulies
Daniel Margulies Co. Inc.
14204 Detroit Ave.
Lakewood, OH 44107

Applicant proposes the conversion of a two-family home into a single-family residence, addition over an existing garage, new directional entry into garage, and expansion of front porch. Project approved originally at the January 13, 2020 meeting. (Page 5)

NEW BUSINESS
ARCHITECTURAL BOARD OF REVIEW

6. Docket No. 11-146-21 **R** **1039 Kenneth Dr.**

( ) Approve
( ) Deny
( ) Defer

Daniel Margulies
Daniel Margulies Co. Inc.
14204 Detroit Ave.
Lakewood, OH 44107

Applicant proposes a second floor addition and garage expansion. (Page 21)

7. Docket No. 11-147-21 **R** **17509 Riverway Ave.**

( ) Approve
( ) Deny
( ) Defer

Kiernan Weese
Makovich and Pusti Architects
111 Front St.
Berea, OH 44017

Applicant proposes a front porch addition, two-story addition to the south, and a garage addition. (Page 27)

8. Docket No. 11-148-21 **R** **14604 Clifton Bl.**

( ) Approve
( ) Deny
( ) Defer

Halley Novak
Horton Harper Architects
812 Huron Rd. E
Cleveland, OH 44115

Applicant proposes exterior renovation of an existing single-family house. (Page 71)

9. Docket No. 11-149-21 **C** **15528 Madison Ave.**
Plum Hill

( ) Approve
( ) Deny
( ) Defer

Jeremy Smith
Onward Design Collaborative
1451 Rosewood Ave.
Lakewood, OH 44107

Applicant proposes storefront renovation – Matthew's Lending Library site. (Page 105)

10. Docket No. 11-150-21 **C** **178021 Detroit Ave.**
Beck Center for the Arts

( ) Approve
( ) Deny
( ) Defer

David Craun
Bialosky Cleveland
6115 Carnegie Ave.
Cleveland, OH 44103

Applicant proposes preliminary review of demolition of the front annex building and new plaza and drive. (Page 107)

SIGN REVIEW

11. Docket No. 11-151-21 **C** **18101-18119 Detroit Ave.**
Mural Installation

( ) Approve
( ) Deny
( ) Defer

Susan Augustine
Eclectic Cleveland
18115 Detroit Ave.
Lakewood, OH 44107

Applicant proposes installation of a mural on the west side of the building. (Page 120)

12. ADJOURN

BOARD OF BUILDING STANDARDS
ARCHITECTURAL REVIEW BOARD
SIGN REVIEW BOARD

12650 Detroit Avenue ● (216) 529-6630 ● FAX (216) 529-5907 ● www.lakewoodoh.gov

Application Cover Page

Docket No.: 09-128-21

Permit No.: BBS21-000165

Applicant Name: Andrew Erker, ACE Design LLC

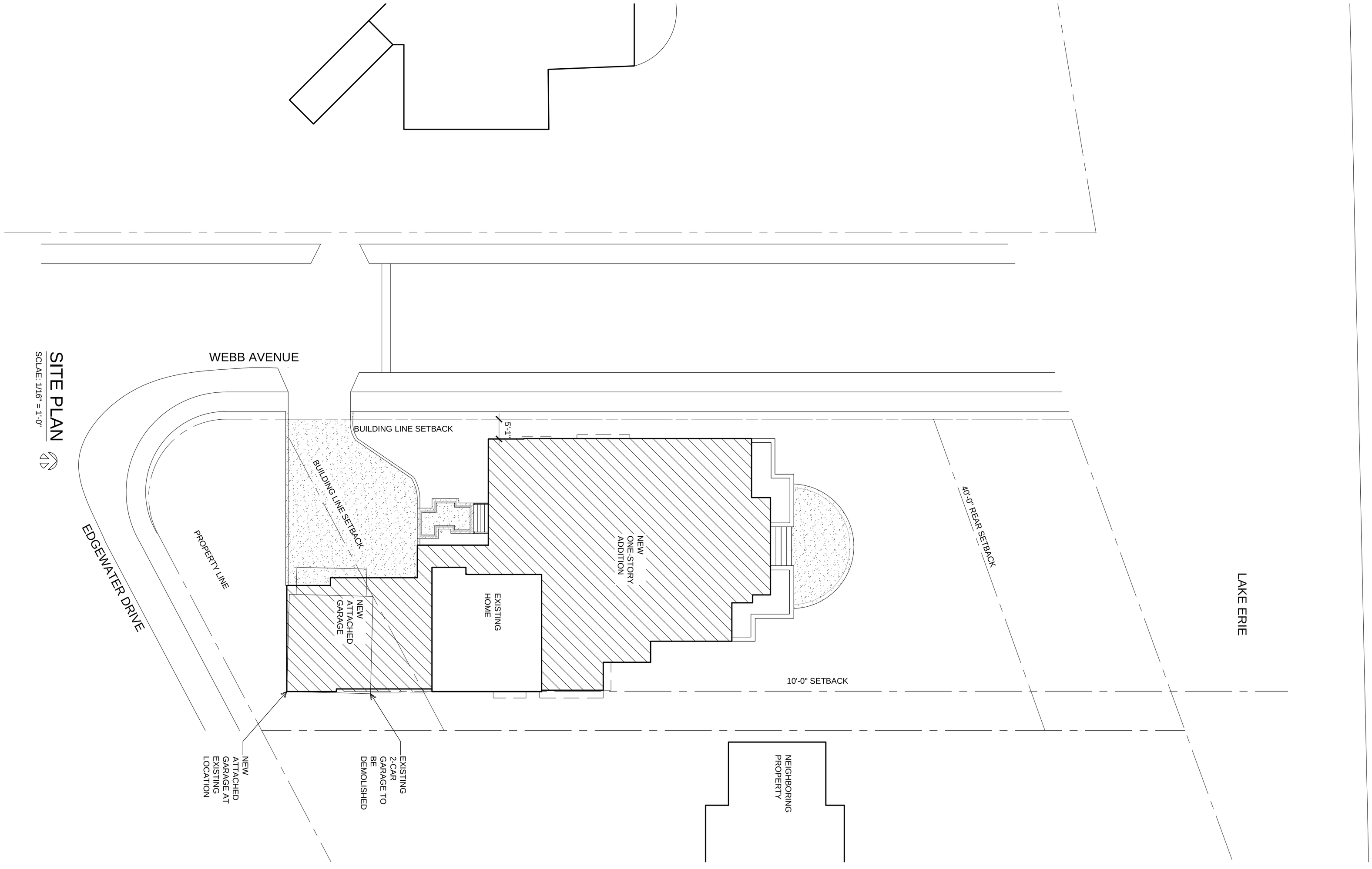
Project Address: 17788 Edgewater Rd.

Project Name: n/a

Project: Applicant proposes an addition and renovation of an existing home.

SITE PLAN

SCLAE: 1/16" = 1'-0"



NEW RENOVATION AND ADDITION FOR THE

HALL RESIDENCE

17788 EDGEWATER DRIVE

LAKEWOOD, OHIO 44107

JOB NO: 2188

SUBMIT: BOARD OF ARCH. REVIEW

DATE: 10.14.2021

SHEET:

ACE DESIGN

2076 LINCOLN AVENUE
LAKEWOOD, OHIO 44107
216.333.7458

DATE	ZONING REVIEW
09.09.2021	

BOARD OF BUILDING STANDARDS
ARCHITECTURAL REVIEW BOARD
SIGN REVIEW BOARD

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Application Cover Page

Docket No.: 11-145-21

Permit No.: BBS21-000180

Applicant Name: Daniel Margulies, Daniel Margulies Co. Inc.

Project Address: 1468 Riverside Dr.

Project Name: n/a

Project: Applicant proposes the conversion of a two-family home into a single-family residence, addition over an existing garage, new directional entry into garage, and expansion of front porch. Project approved originally at the January 13, 2020 meeting.

BOARD OF BUILDING STANDARDS

ARCHITECTURAL REVIEW BOARD

SIGN REVIEW BOARD

12650 Detroit Avenue ● 44107 ● (216) 529-6630 ● FAX (216) 529-5907
www.onelakewood.com

1/13/2020

Daniel Margulies
Daniel Margulies Company, Inc.
14204 Detroit Avenue
Lakewood, Ohio 44107

Docket No. 01-03-20
1468 Riverside Drive

Dear Mr. Margulies,

At the 1/9/2020 meeting, the Board of Building Standards/Architectural Board of Review/Sign Review considered the conversion of a two-family home into a single-family residence, addition over an existing garage, new directional entry into garage, and expansion of front porch.

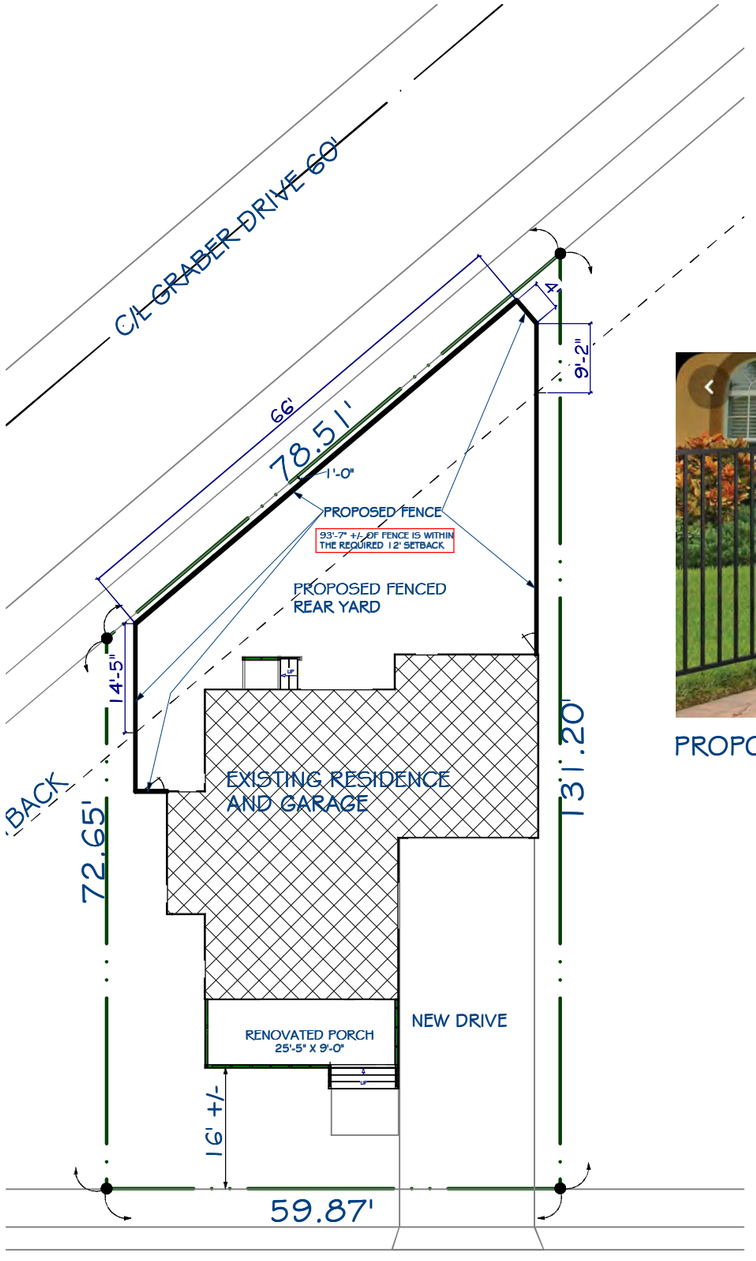
The Board **APPROVED** the request with the following conditions:

- The rear transom window will match the width of the window above it.
- The cable rail ends before it hits the roof.
- The cable roof is approved pending BZA approval.
- The colors of the cable rail will match the color of the metal roofs on the front and rear elevations.
- Fence location is approved pending BZA approval.

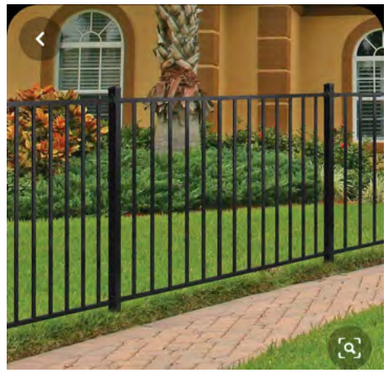
As your next step, please contact the Division of Housing and Building at (216) 529-6270 to find out what elements of this plan require construction drawings and their specific requirements for submitting those plans.

Sincerely,

David Baas, Board Secretary
Planner, Planning and Development



SITE PLAN
1"=20'
NO FURTHER ENCROACHMENT ON REAR OR SIDE YARDS



PROPOSED REAR FENCE STYLE



PERSPECTIVE VIEWING SOUTHWEST
N.T.S.

LOT COVERAGE DATA

EXISTING

CURRENT HOUSE AND GARAGE	1,562 SQ. FT.
CURRENT FRONT PORCH	297 SQ. FT.
CURRENT REAR PORCHES	56 SQ. FT.
TOTAL	1,915 SQ. FT.

1,915 SQ. FT. / 5,760 SQ.FT. (LOT AREA) = 33.25% EXISTING

PROPOSED

PROPOSED HOUSE AND GARAGE	1,562 SQ. FT.
PROPOSED FRONT PORCH	229 SQ. FT.
PROPOSED REAR PORCH	21 SQ. FT.
TOTAL	1,812 SQ.FT.

1,812 SQ. FT. / 5,760 SQ. FT. (LOT AREA) = 31.5% PROPOSED

ADDITION and RENOVATION for:

THE VILLALTA RESIDENCE

1468 RIVERSIDE DRIVE LAKEWOOD, OHIO

DRAWING INDEX

#	DESCRIPTION
1	COVER SHEET • SITE PLAN • DRAWING INDEX • FENCE STYLE
2	FIRST and SECOND FLOOR PLAN (EXISTING CONDITIONS)
3	FIRST FLOOR PLAN (PROPOSED)
4	SECOND and THIRD FLOOR PLAN (PROPOSED)
5	EAST and NORTH ELEVATION (EXISTING and PROPOSED)
6	WEST and SOUTH ELEVATION (EXISTING and PROPOSED)
7	PERSPECTIVE VIEWING SOUTHWEST
8	PERSPECTIVE VIEWING NORTHEAST
9	PERSPECTIVE VIEWING NORTHWEST
10	PHOTOGRAPHS VIEWING SOUTHWEST and NORTHEAST
11	MATERIAL CUT SHEETS
12	FENCE PHOTOGRAPHS
13	AS BUILT PHOTOGRAPHS • EXPLANATION OF DISCREPANCIES
14	AS BUILT PHOTOGRAPHS

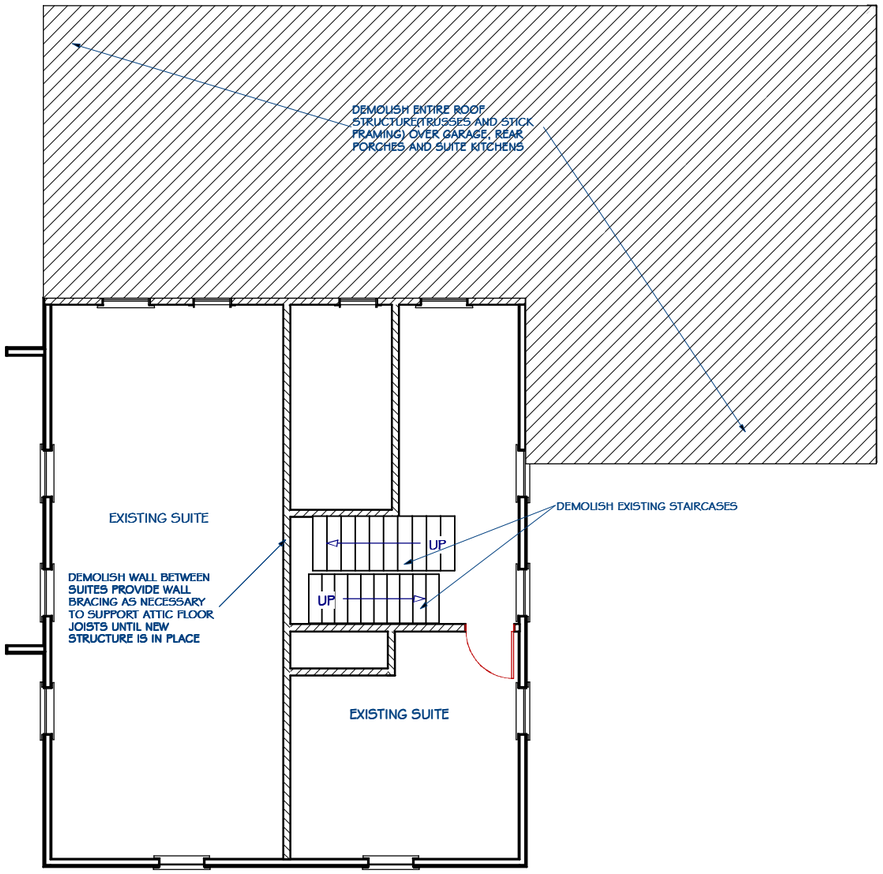
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01.09.20: REV.for LKWD. ARB MTG. 01.09.20
10.15.21: FIELD MODIFICATIONS TO INTIAL ABR APPROVAL BBS19-000100

DESIGN: DANIEL MARGULIES COMPANY INC.
14204 DETROIT AVENUE
LAKEWOOD, OHIO 44107
TEL: 440.356.0688 FAX: 440.799.4333
EMAIL: daniel@dmc.ohiocoxmail.com

THE VILLALTA RESIDENCE
1468 RIVERSIDE DRIVE
LAKEWOOD, OHIO

ISSUE DATE
11.13.19: FOR BANK REVIEW

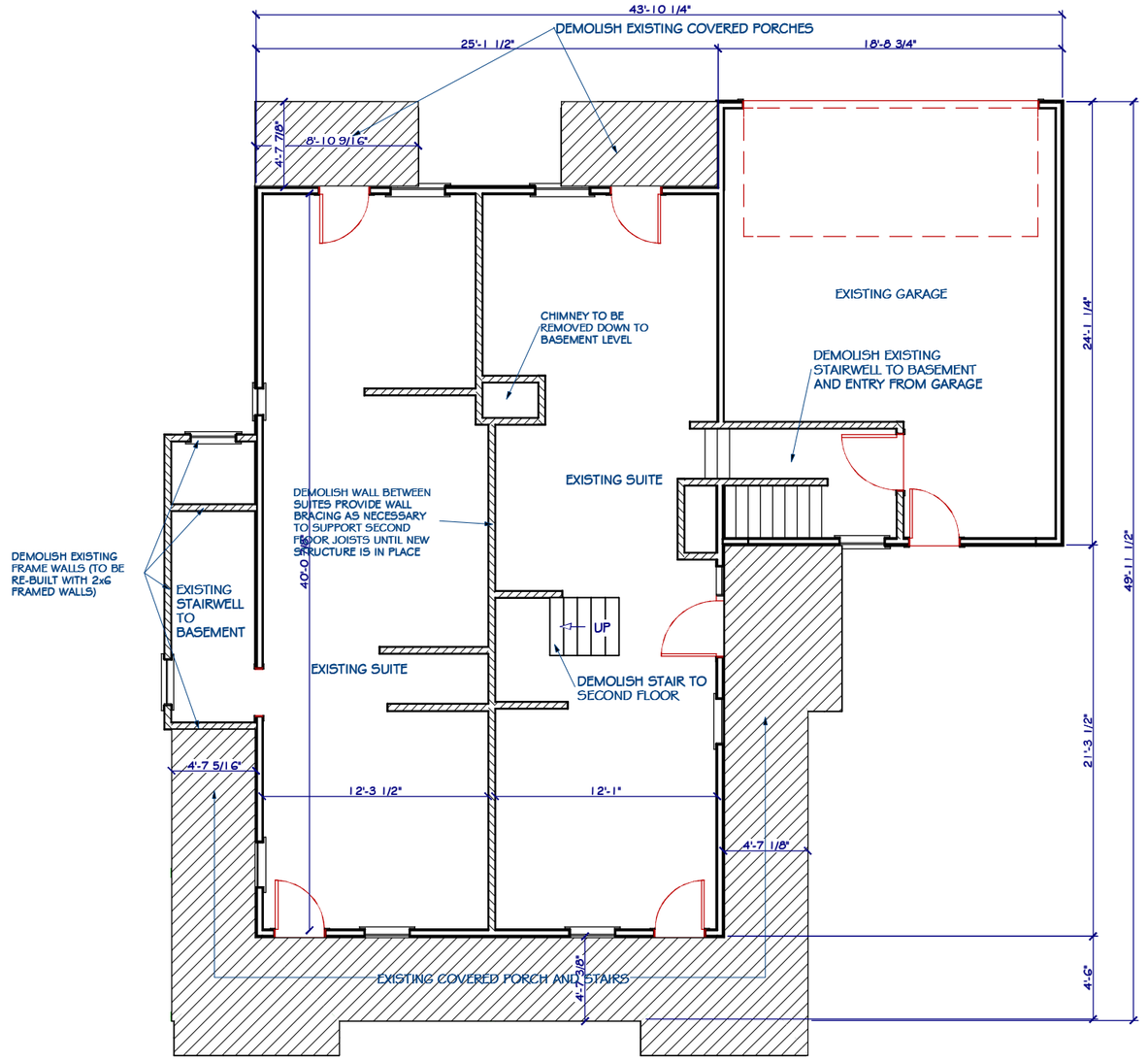
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SECOND FLOOR DEMOLITION PLAN
1/4"= 1'-0"

EXISTING CONDITIONS

GENERAL NOTE:
BATHROOMS ON THIS FLOOR TO BE DEMOLISHED ENTIRELY.
CAP FOR FUTURE USE OR TERMINATE ALL UTILITIES AS NECESSARY.
DEMOLISH ALL INTERIOR FINISHES INCLUDING GYP. BD.



FIRST FLOOR DEMOLITION PLAN
1/4"= 1'-0" EXISTING CONDITIONS

GENERAL NOTE:
KITCHENS AND LAVATORY ON THIS FLOOR TO BE DEMOLISHED ENTIRELY.
CAP FOR FUTURE USE OR TERMINATE ALL UTILITIES AS NECESSARY.
DEMOLISH ALL INTERIOR FINISHES INCLUDING GYP. BD.

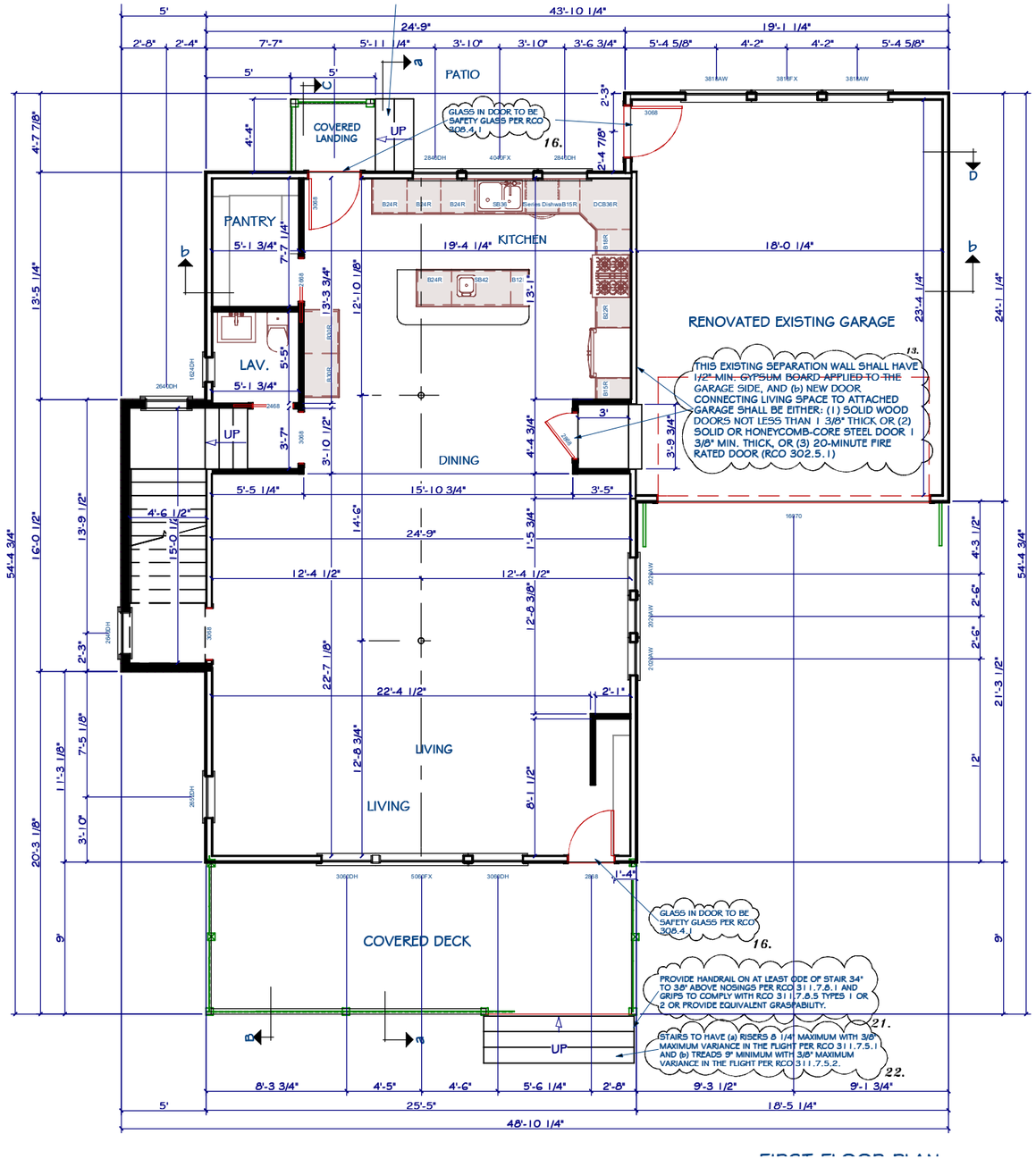
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FIRST FLOOR PLAN

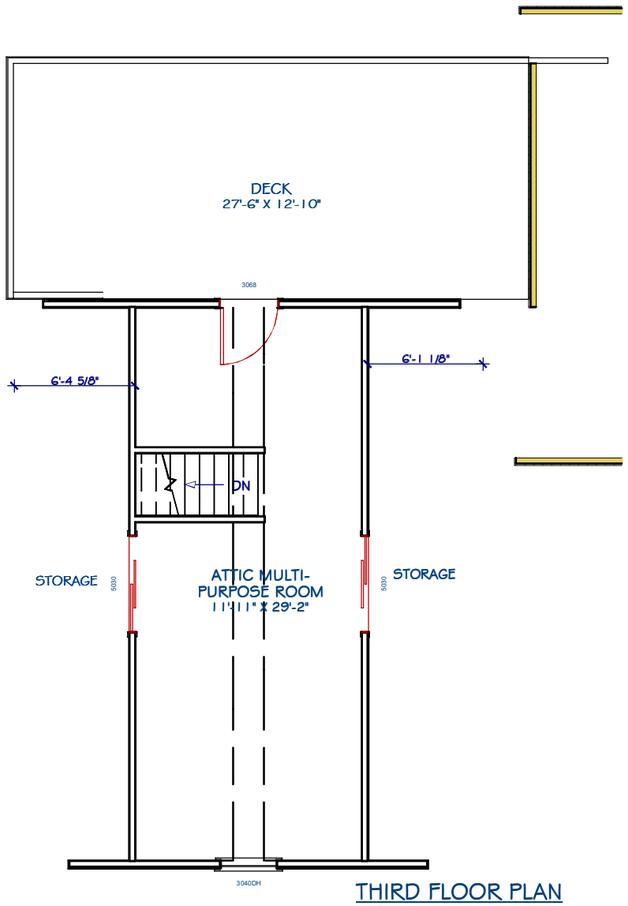
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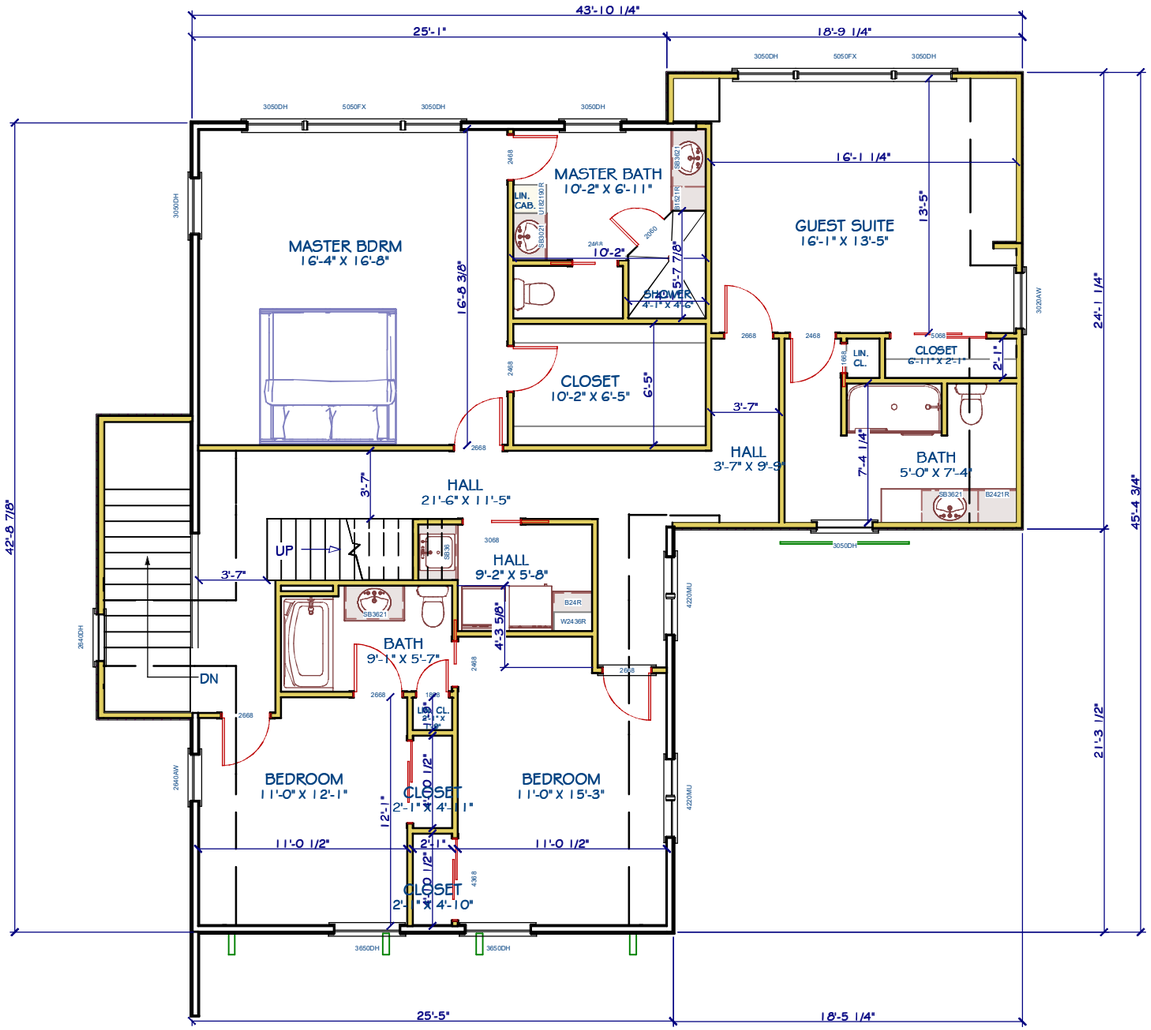
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THIRD FLOOR PLAN
1/8"=1'-0"

LIVING AREA
353 SQ FT



SECOND FLOOR PLAN 2A
1/8"=1'-0"

LIVING AREA
1532 SQ FT

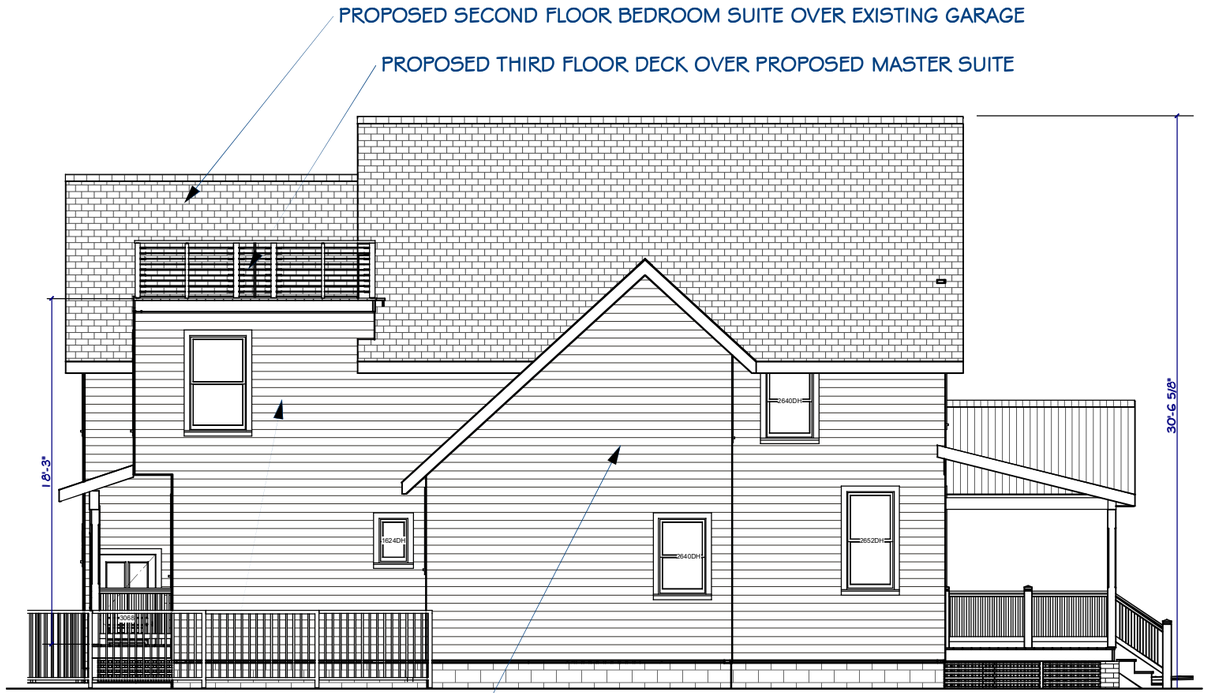
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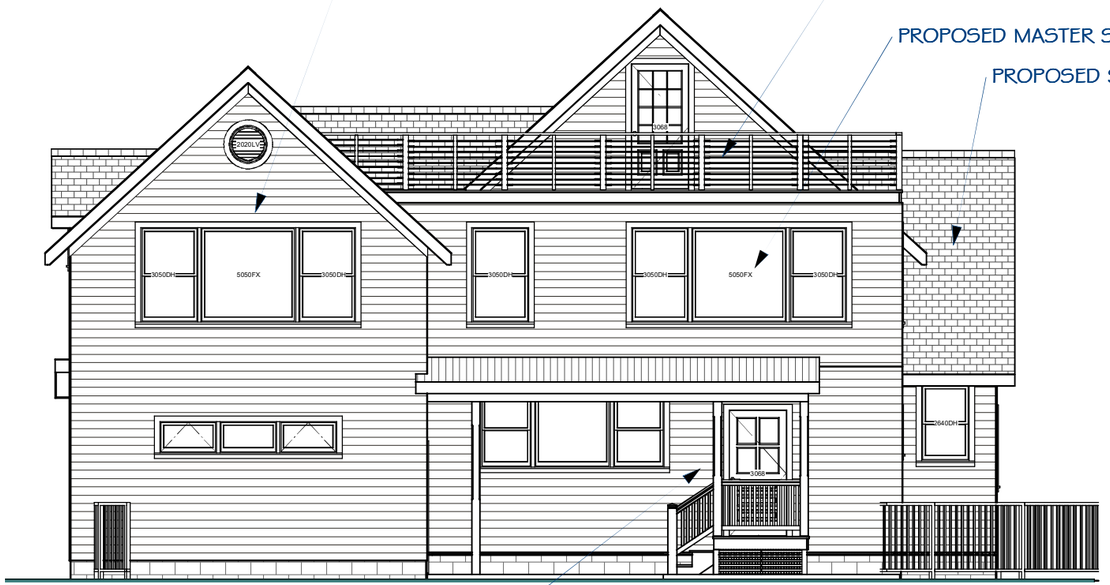
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PROPOSED SOUTH ELEVATION
1/8"=1'-0"



EXISTING SOUTH ELEVATION
1/8"=1'-0"



PROPOSED WEST ELEVATION
1/8"=1'-0"



EXISTING WEST ELEVATION
1/8"=1'-0"

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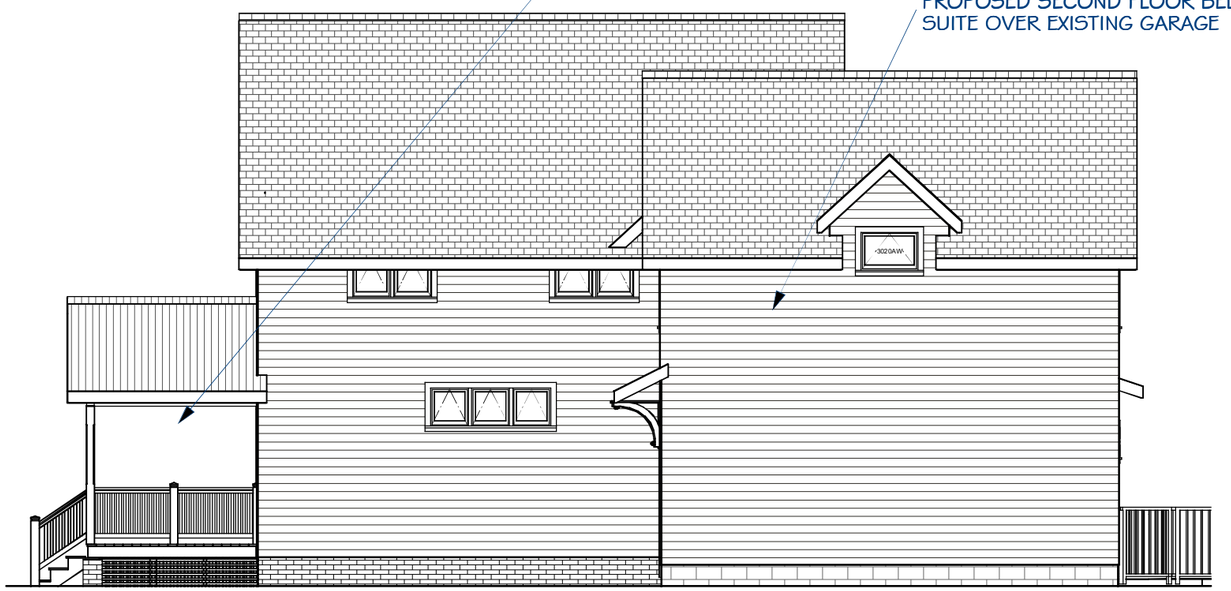
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PROPOSED FRONT PORCH EXTENSION AND RE-BUILD

PROPOSED SECOND FLOOR BEDROOM SUITE OVER EXISTING GARAGE



PROPOSED NORTH ELEVATION
1/8"= 1'-0"



EXISTING NORTH ELEVATION
1/8"= 1'-0"

PROPOSED STAIRWAY RELOCATION

PROPOSED SECOND FLOOR BEDROOM SUITE OVER EXISTING GARAGE

PROPOSED REVERSAL OF GARAGE ACCESS FROM GRABER TO RIVERSIDE



PROPOSED EAST ELEVATION
1/8"= 1'-0"



EXISTING EAST ELEVATION
1/8"= 1'-0"

PROPOSED FRONT PORCH EXTENSION AND RE-BUILD

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PERSPECTIVE VIEWING SOUTHWEST
N.T.S.

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AERIAL PERSPECTIVE VIEWING NORTHEAST
N.T.S.

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PERSPECTIVE VIEWING NORTHWEST
N.T.S.

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PHOTOGRAPH VIEWING NORTHEAST



PHOTOGRAPH VIEWING SOUTHWEST

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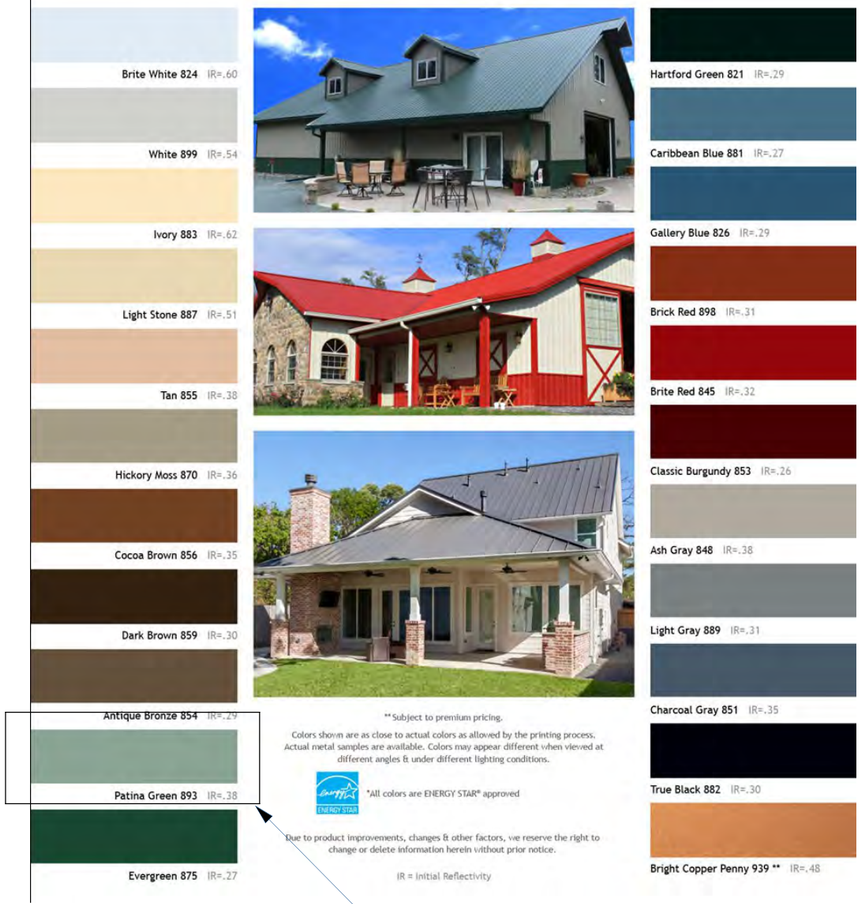
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PROPOSED SLATE LOOK ASPHALT SHINGLES



PROPOSED THIRD FLOOR CABLE RAILING



PROPOSED METAL ROOF ACCENTS

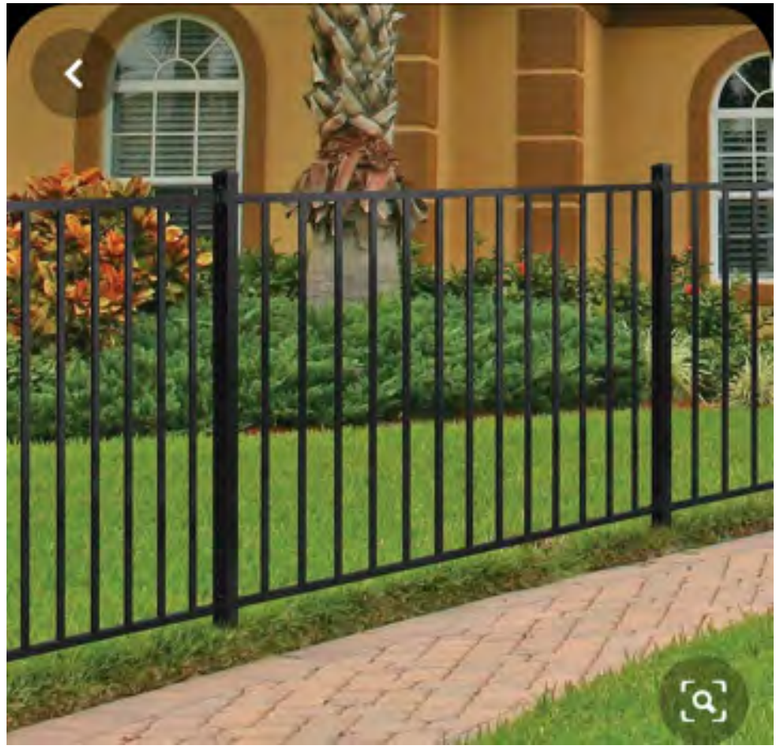
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PROPOSED REAR FENCE STYLE



SIMILAR FENCE 2 ON ARCHDALE AVENUE



SIMILAR FENCE 1 ON ARCHDALE AVENUE

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AS-BUILT VIEWING NORTH



AS-BUILT VIEWING SOUTH

EXPLANATION OF DISCREPANCIES FROM BUILDING COMMISSIONER

Item 1: After initial approval from the Architectural Review Board Mrs. Villalta became pregnant and and gave birth to their first child. During construction a decision was made to keep the rear garage door to provide easier access to the rear yard play area with all the future child's toys.

Item 2: Leaving the garage door in place eliminated the ability to install windows original approved.

Item 3: The "eyebrow" roof was not installed as originally approved to allow more sunlight into the kitchen windows.

Item 4: The full length rail was not installed per plan due to safety concerns and air conditioner compressor installation. The railing as installed does not allow the ability to climb onto the roof planes. Additionally, with the birth of their child the decision was made to use a solid glass rail versus a cable rail to eliminate the possibility of a young child using the cable rail as a ladder but still allow a clear view of the valley.

Item 5: The front porch guards were not in compliant at first inspection but have since been modified to be compliant.



AS-BUILT VIEWING NORTHEAST

REV.
12.12.19: REV. for LKWD. ARB
12.18.19: REV. RAILINGS AND COLOR for LKWD. ARB
12.31.19: REV.for LKWD. ARB PRE REVIEW 1.2.19
01.09.20: REV.for LKWD. ARB MTG. 01.09.20
10.15.21: FIELD MODIFICATIONS TO INTIAL ABR APPROVAL BBS19-000100

DESIGN: DANIEL MARGULIES COMPANY INC.
14204 DETROIT AVENUE
LAKEWOOD, OHIO 44107
TEL: 440.356.0888 FAX: 440.799.4333
EMAIL: daniel@dmc.ohiocoxmail.com

THE VILLALTA RESIDENCE
1468 RIVERSIDE DRIVE
LAKEWOOD, OHIO

ISSUE DATE
11.13.19: FOR BANK REVIEW

SHEET NO.
13 of 14



AS-BUILT FRONT PORCH RAILING



AS-BUILT FRONT PORCH LATTICE



AS-BUILT FRONT PORCH VIEWING SOUTH

REV.
12.12.19: REV. for LKWD. ARB
12.18.19: REV. RAILINGS AND COLOR for LKWD. ARB
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DMC

THE VILLALTA RESIDENCE
1468 RIVERSIDE DRIVE
LAKEWOOD, OHIO

ISSUE DATE
11.13.19: FOR BANK REVIEW

SHEET NO.
14 of 14

BOARD OF BUILDING STANDARDS
ARCHITECTURAL REVIEW BOARD
SIGN REVIEW BOARD

12650 Detroit Avenue ● (216) 529-6630 ● FAX (216) 529-5907 ● www.lakewoodoh.gov

Application Cover Page

Docket No.: 11-146-21

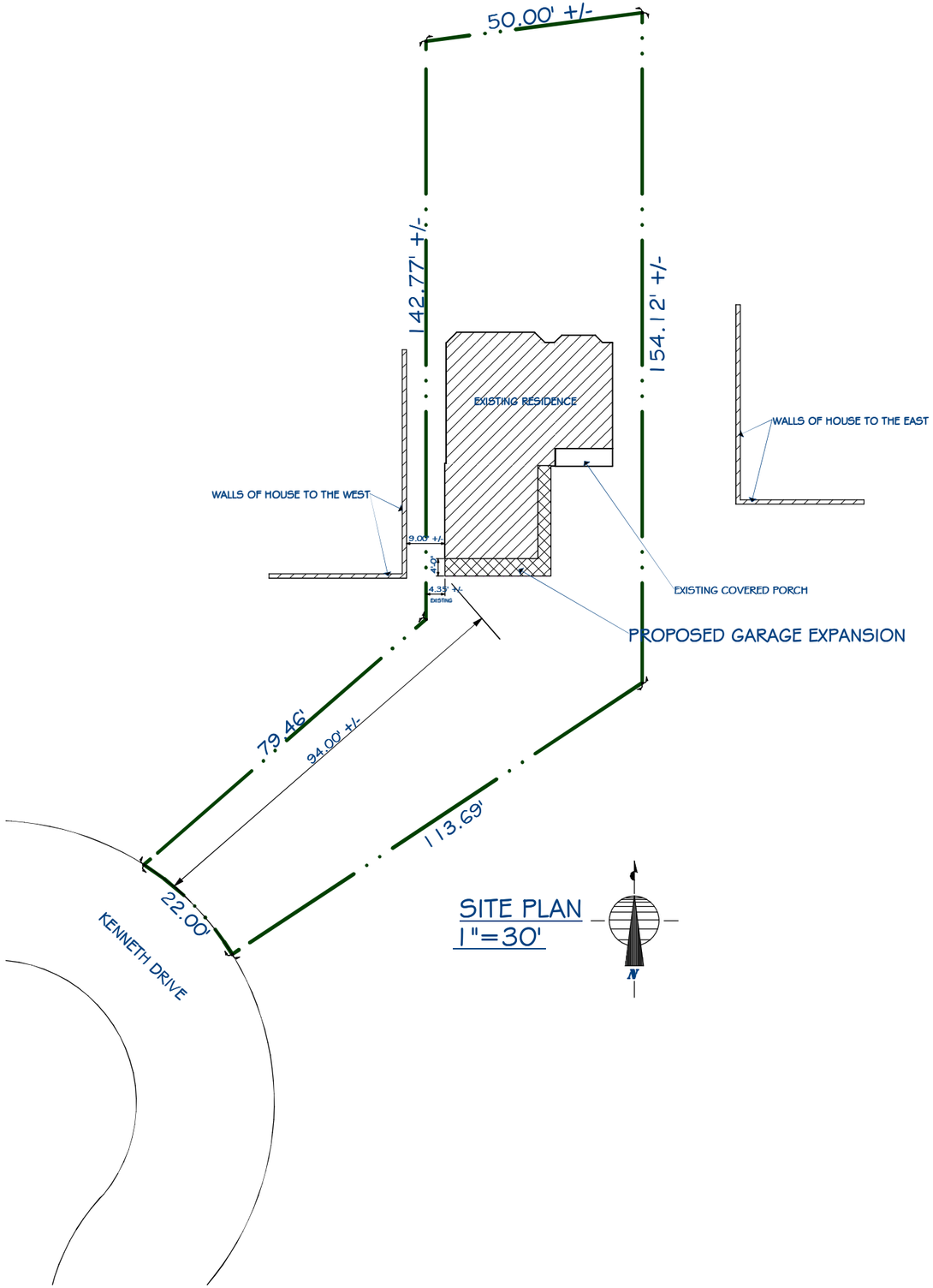
Permit No.: BBS21-000179

Applicant Name: Daniel Margulies, Daniel Margulies Co. Inc.

Project Address: 1039 Kenneth Dr.

Project Name: n/a

Project: Applicant proposes a second floor addition and garage expansion.





GARAGE EXPANSION and SECOND FLOOR ADDITION for:

THE MORRISON RESIDENCE

1039 KENNETH DRIVE
LAKEWOOD, OHIO

DRAWING INDEX

#	DESCRIPTION
1	COVER SHEET • SITE PLAN • DRAWING INDEX
2	FOUNDATION PLAN • FIRST FLOOR PLAN
3	SECOND FLOOR PLAN • SOUTH ELEVATION • EAST ELEVATION
4	PERSPECTIVE VIEWING NORTHWEST
5	EXISTING CONDITIONS PROJECT PHOTOGRAPHS

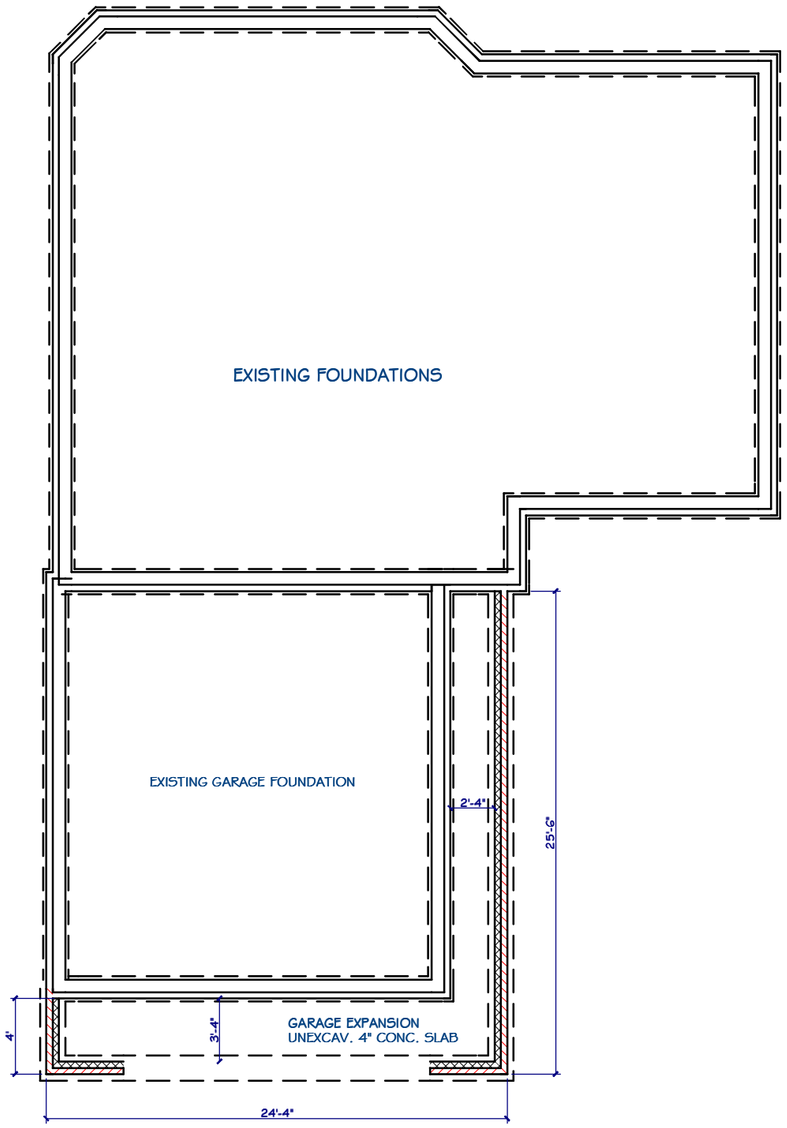
REVISIONS:

HERNISKY
RESIDENTIAL DESIGNS
Phone (440) 899-9807
Fax (440) 899-9804
23016 Lincolnshire Dr.
Bay Village, Ohio 44140

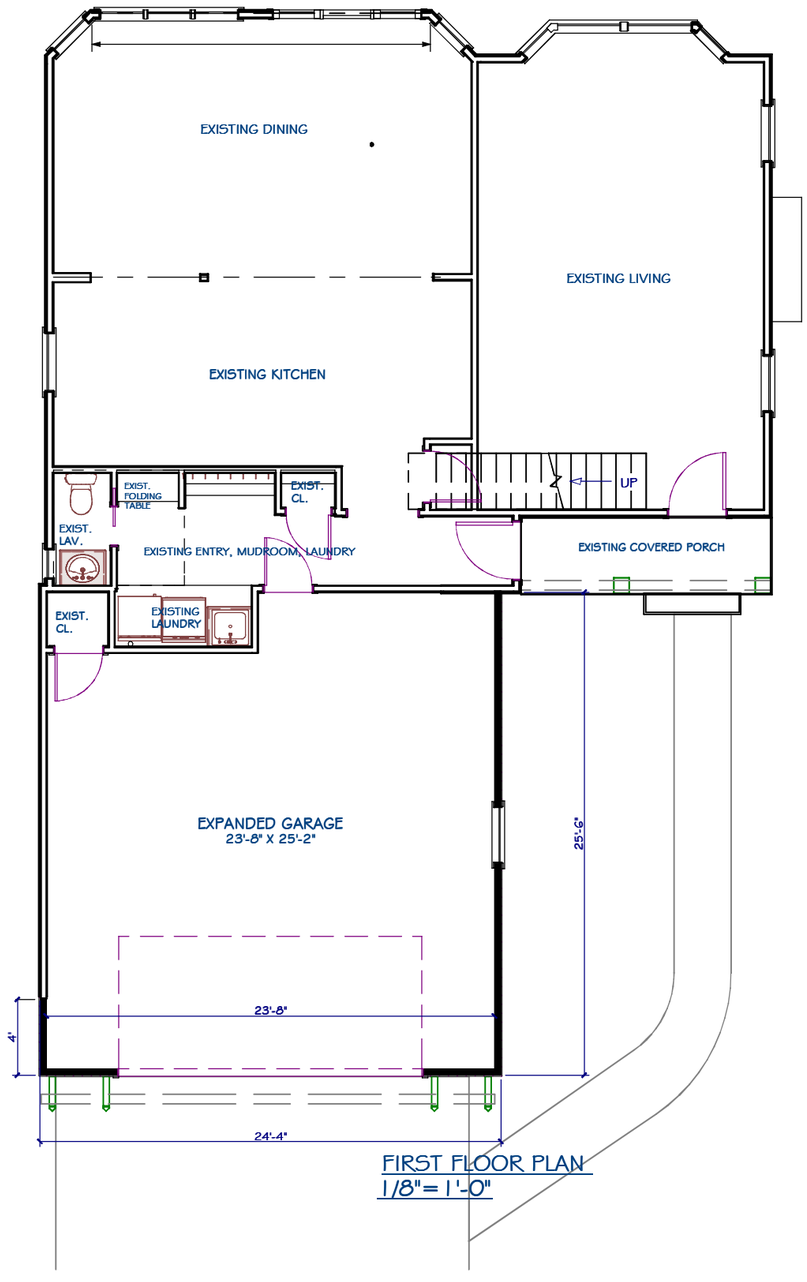
GARAGE EXPANSION and SECOND FLOOR ADDITION for:
THE MORRISON RESIDENCE
1039 KENNETH DRIVE
LAKEWOOD, OHIO

SHEET #
1

ISSUED: 10.11.21: LKWD. ARB APP.



FOUNDATION PLAN
1/8"= 1'-0"



FIRST FLOOR PLAN
1/8"= 1'-0"

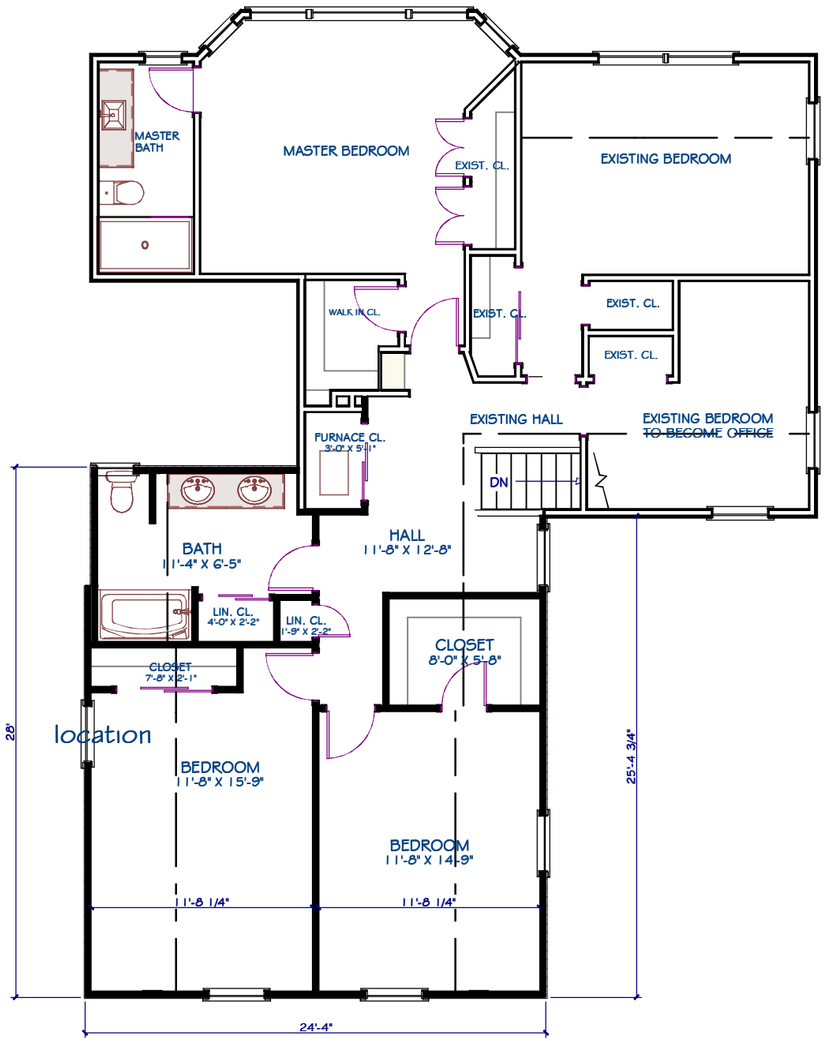
REVISIONS:

HERNISKY
RESIDENTIAL DESIGNS
Phone (440) 899-9807
Fax (440) 899-9804
23016 Lincolnshire Dr.
Bay Village, Ohio 44140

GARAGE EXPANSION and SECOND FLOOR ADDITION for:
THE MORRISON RESIDENCE
1039 KENNETH DRIVE
LAKEWOOD, OHIO

SHEET #
2

ISSUED: 10.11.21: LKWD. ARB APP.



SECOND FLOOR PLAN
1/8"= 1'-0"



EAST ELEVATION
1/8"= 1'-0"

NOTE: ALL EXTERIOR MATERIALS TO MATCH EXISTING



SOUTH ELEVATION
1/8"= 1'-0"

REVISIONS:

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RESIDENTIAL DESIGNS
Phone (440) 899-9807
Fax (440) 899-9804
23016 Lincolnshire Dr.
Bay Village, Ohio 44140

GARAGE EXPANSION and SECOND FLOOR ADDITION for:

THE MORRISON RESIDENCE

1039 KENNETH DRIVE
LAKEWOOD, OHIO

SHEET #

3

ISSUED: 10.11.21: LKWD. ARB APP.



PERSPECTIVE VIEWING NORTHWEST
N.T.S.

REVISIONS:

HERNISKY
RESIDENTIAL DESIGNS

23016 Lincolnshire Dr.
Bay Village, Ohio 44140

Phone (440) 899-9807
Fax (440) 899-9804

GARAGE EXPANSION and SECOND FLOOR ADDITION for:

THE MORRISON RESIDENCE

1039 KENNETH DRIVE
LAKEWOOD, OHIO

SHEET #

4

ISSUED: 10.11.21: LKWD. ARB APP.



PHOTO VIEWING NORTH



PHOTO VIEWING WEST



PHOTO VIEWING NORTHWEST

REVISIONS:

HERNISKY
RESIDENTIAL DESIGNS
23016 Lincolnshire Dr.
Bay Village, Ohio 44140
Phone (440) 899-9807
Fax (440) 899-9804

GARAGE EXPANSION and SECOND FLOOR ADDITION for:

THE MORRISON RESIDENCE

1039 KENNETH DRIVE
LAKEWOOD, OHIO

SHEET #

5

ISSUED: 10.11.21: LKWD. ARB APP.

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ARCHITECTURAL REVIEW BOARD
SIGN REVIEW BOARD

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Application Cover Page

Docket No.: 11-147-21

Permit No.: BBS21-000181

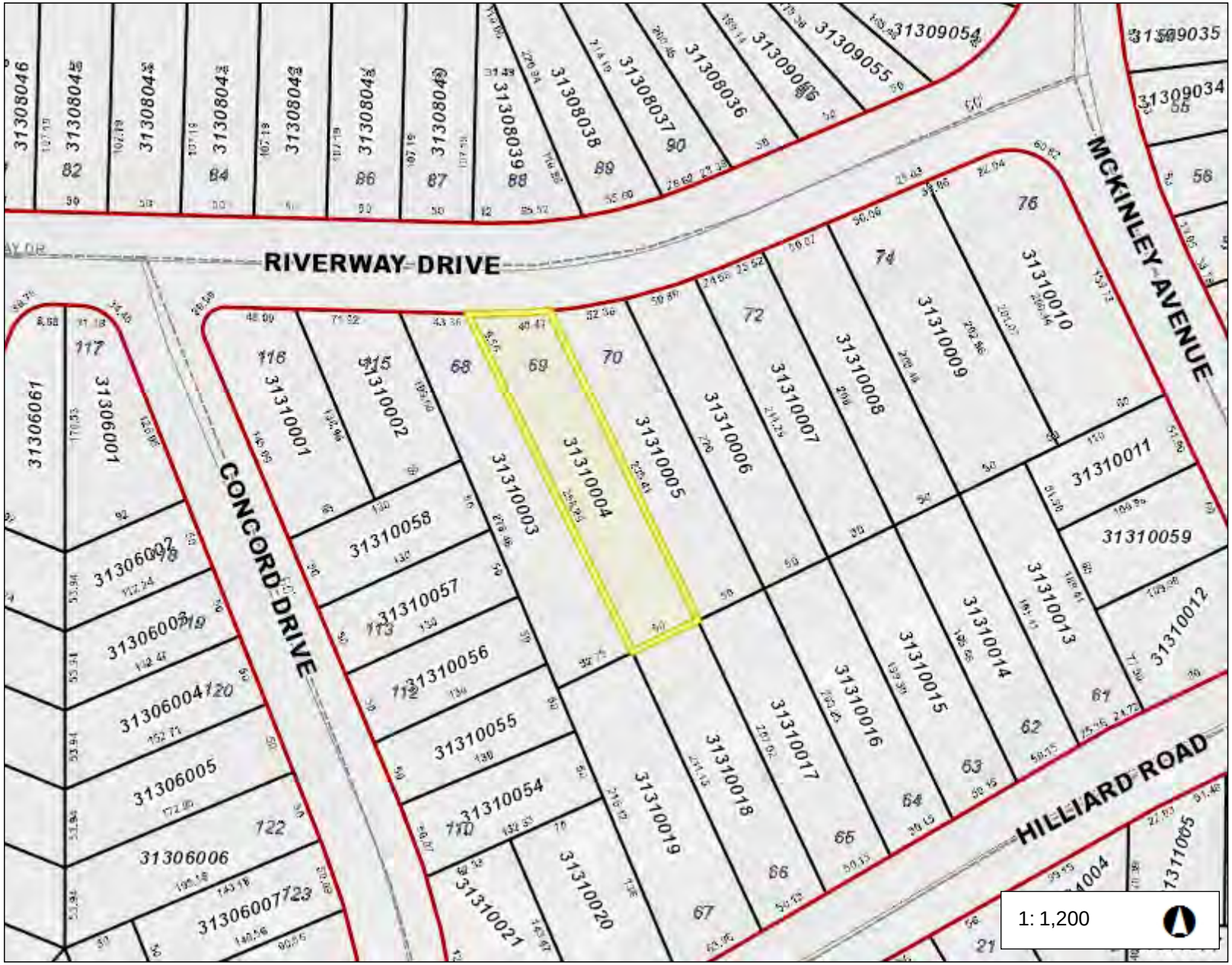
Applicant Name: Kiernan Weese, Makovich and Pusti Architects

Project Address: 17509 Riverway Ave.

Project Name: n/a

Project: Applicant proposes a front porch addition, two-story addition to the south, and a garage addition.

Cuyahoga County GIS Viewer





Date Created: 10/5/2021

Legend

- Municipalities
- Right Of Way
- Platted Centerline
- Parcel

200 0 100 200 Feet

Projection:
WGS_1984_Web_Mercator_Auxiliary_Sphere

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.
THIS MAP IS NOT TO BE USED FOR NAVIGATION

Cuyahoga County Enterprise GIS
PUTTING CUYAHOGA COUNTY ON THE MAP


17509


17509

17509




11509

PROJECT DESCRIPTION

THE PROJECT CONSISTS OF A TWO-STORY ADDITION TO THE SOUTH, A GARAGE ADDITION, AND A RENOVATION OF THE INTERIOR OF AN EXISTING TWO-STORY, WOOD FRAME RESIDENCE LOCATED AT 17509 RIVERWAY DRIVE IN LAKEWOOD OHIO TO PROVIDE THE FOLLOWING:

- FRONT PORCH
- OPEN CONCEPT KITCHEN, LIVING, AND DINING ROOM
- RELOCATION OF BASEMENT STAIR
- FIRST FLOOR MASTER SUITE
- FIRST FLOOR LAUNDRY ROOM AND STORAGE
- ENTERTAINMENT BAR
- RECONFIGURATION OF SECOND FLOOR BATHROOM
- SECOND FLOOR BEDROOM
- SECOND FLOOR OFFICE
- PRIVATE BALCONY
- ONE CAR GARAGE ADDITION
- OUTDOOR SPACE FOR AN AIRSTREAM
- ENTERTAINMENT PATIO

PROJECT LOADS

ROOF SNOW LOAD: 30 PSF
ROOF LIVE LOAD: 20 PSF
FLOOR LIVE LOAD: 40 PSF
STAIR LIVE LOAD: 40 PSF
GUARD/HAND RAILS: 200 LBS / FT
WIND LOAD: 115 MPH

INDEX OF DRAWINGS

A-1 PROJECT INFORMATION AND SITE PLANS

A-2 PROPOSED FLOOR PLANS AND PORCH SECTION

A-3 PROPOSED ELEVATIONS

A-4 PROPOSED RENDERINGS

A-5 PROPOSED RENDERINGS

17509 RIVERWAY DRIVE

LAKEWOOD, OHIO 44107 PP# 313-10-004

CITY OF LAKEWOOD, OHIO CODE OF ORDINANCES
COMPLETE TO DECEMBER 21, 2021

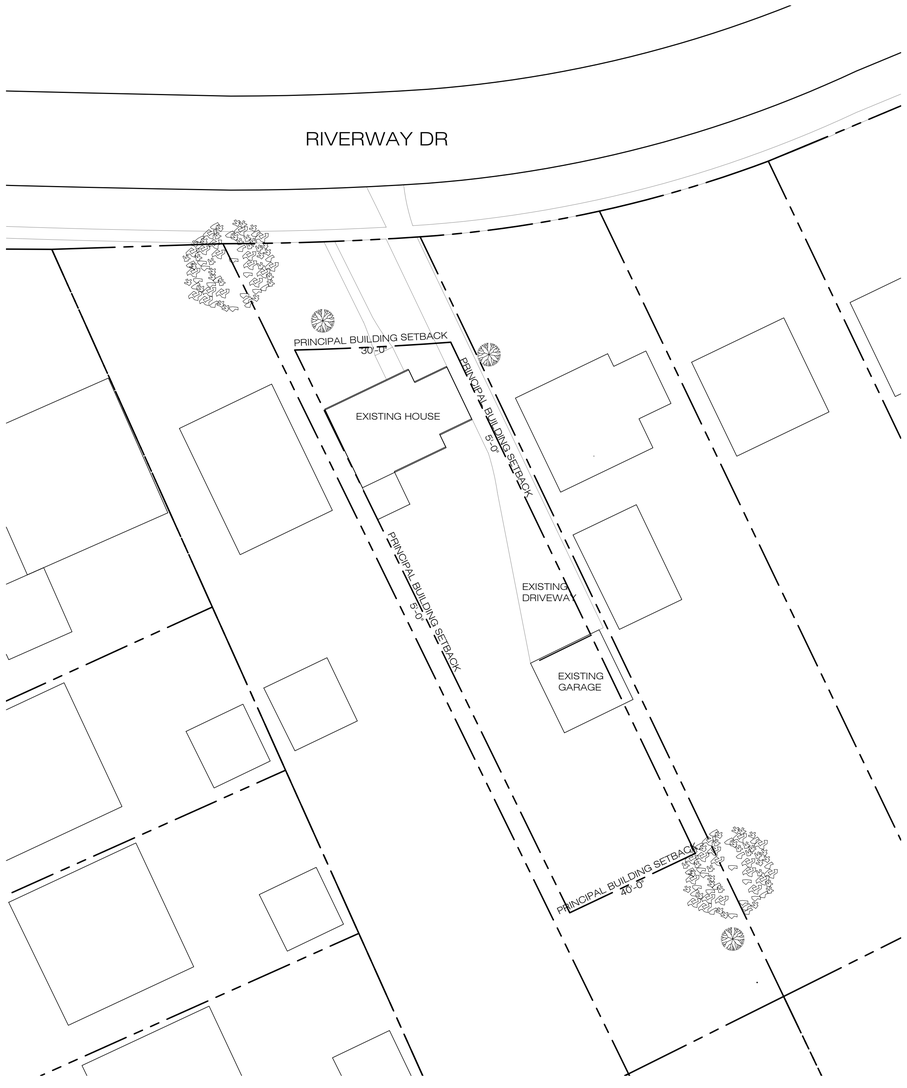
ZONE CODE: R1H
USE DISTRICT: SINGLE FAMILY, HIGH DENSITY

SETBACKS FOR PRINCIPAL STRUCTURE:

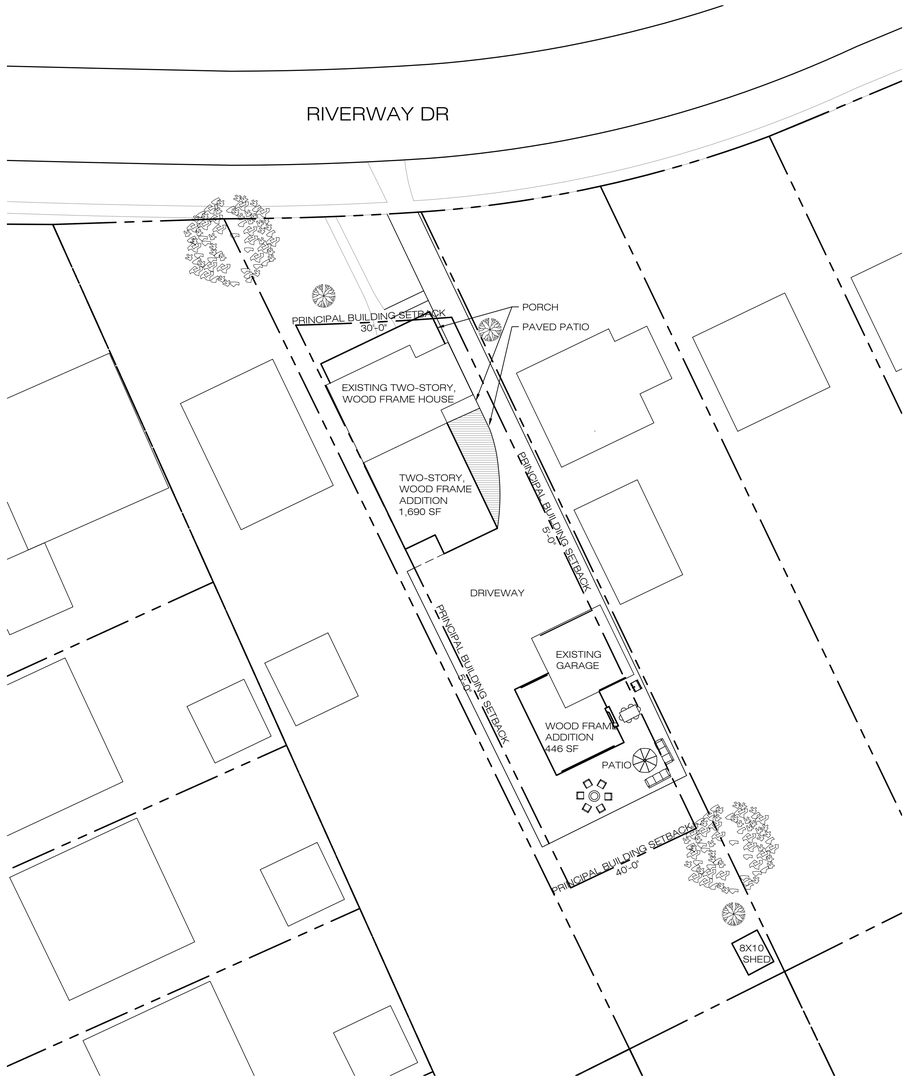
FRONT YARD DEPTH:	30'-0"	SECTION 1121.07
SIDE YARD DEPTH:	5'-0"	SECTION 1121.07
REAR YARD DEPTH:	40'-0"	SECTION 1121.07
SUM OF SIDE YARDS:	20'-0"	SECTION 1121.07

SETBACKS FOR ACCESSORY STRUCTURE:

SIDE YARD DEPTH:	18"	SECTION 1121.10
REAR YARD DEPTH:	18"	SECTION 1121.10



EXISTING
SITE PLAN
1 / A-1 1"=20'-0"



PROPOSED
SITE PLAN
2 / A-1 1"=20'-0"

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ARCHITECTS, INC.
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PRELIMINARY
NOT FOR CONSTRUCTION

RENOVATION AND ADDITION
17509 RIVERWAY DRIVE
LAKEWOOD, OHIO 44107

ISS		PURPOSE	DATE
1		ABR	11/4/21

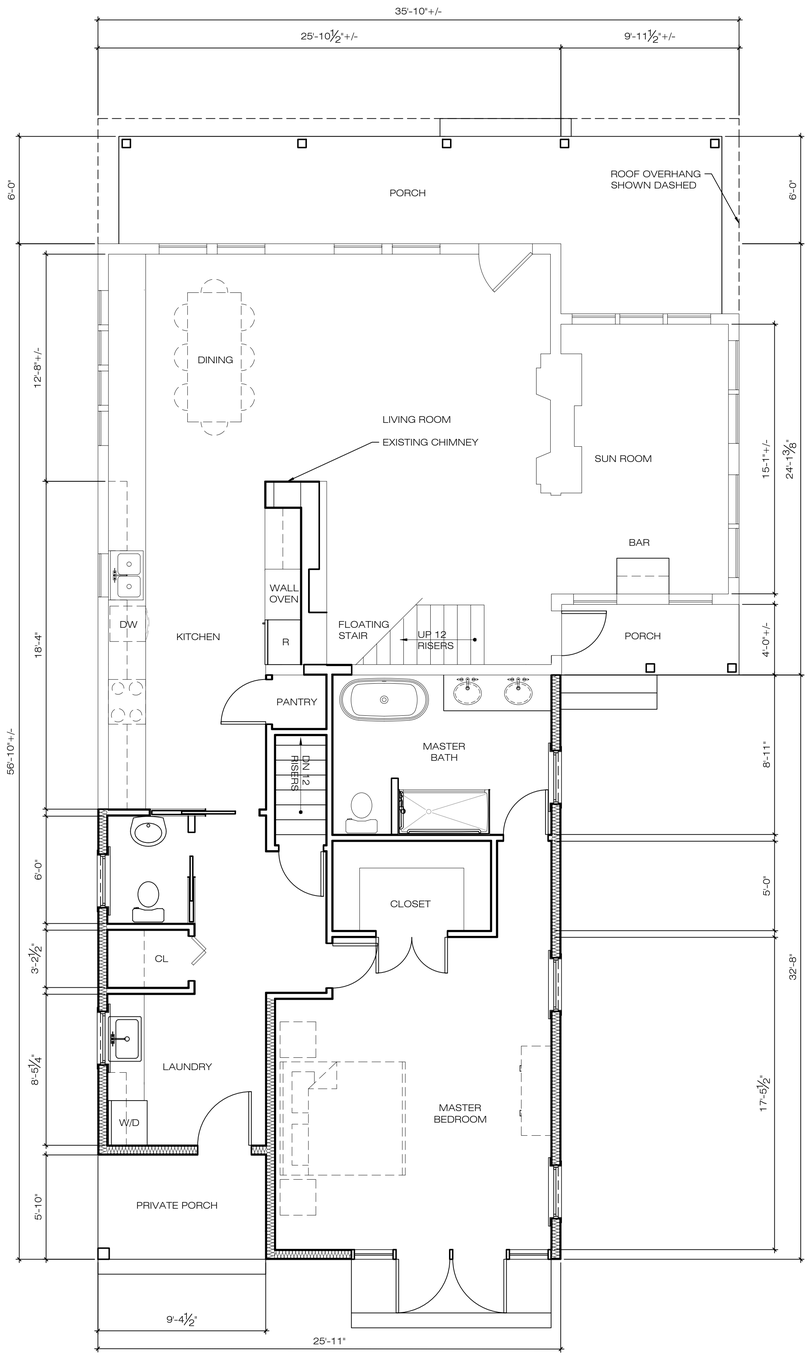
TITLE:

PROJECT INFORMATION AND SITE PLANS

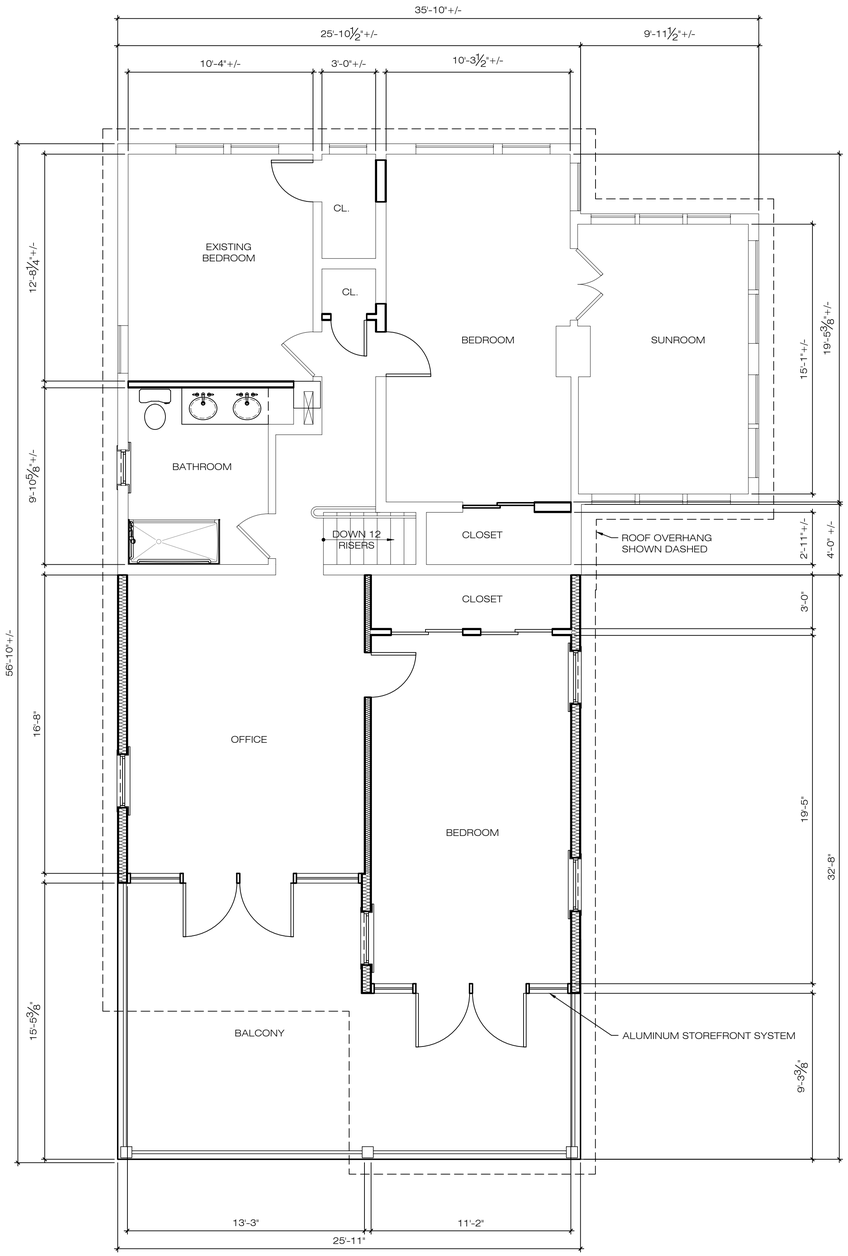
JOB NO: RES-2021.10

DRAWING NO: **A-1**

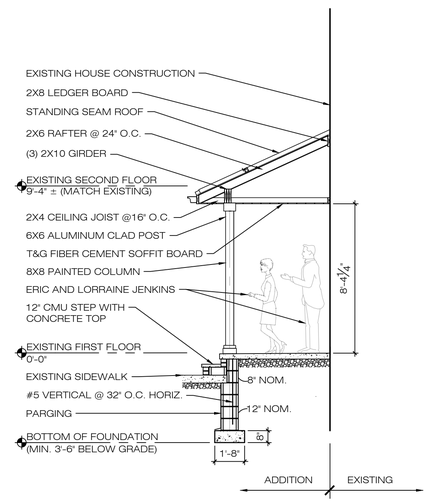
C:\temp\ACPublish_25760\DD_RES-2021.10.dwg [ARB A-1] October 19, 2021 - 1:48pm kvreese



PROPOSED
FIRST FLOOR PLAN
1 / A-2 — 1/4"=1'-0"



PROPOSED
SECOND FLOOR PLAN
2 / A-2 — 1/4"=1'-0"



PROPOSED
PORCH SECTION
3 / A-1 — 1/4"=1'-0"

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RENOVATION AND ADDITION
17509 RIVERWAY DRIVE
LAKEWOOD, OHIO 44107

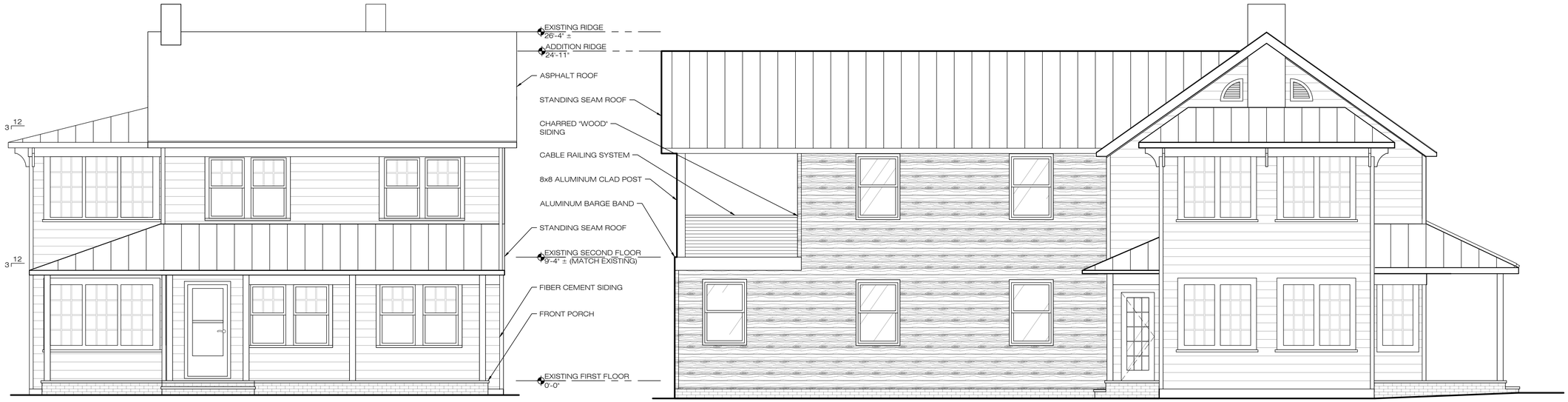
SSS	ABR	PURPOSE	DATE
1		ABR	11/4/21

TITLE:
PROPOSED
FLOOR PLANS AND
PORCH SECTION

JOB NO: RES-2021.10

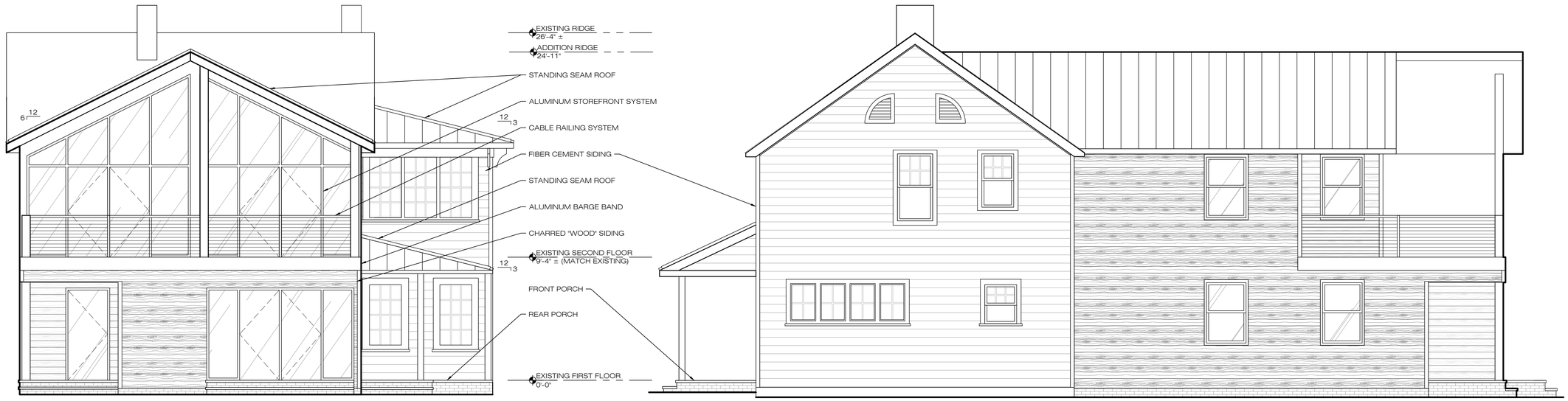
DRAWING NO: **A-2**

C:\temp\AcPublish_25760\DD_RES-2021.10.dwg [A#B A-2] October 19, 2021 - 1:48pm kweise



PROPOSED
NORTH ELEVATION
2 / A-3 1/4"=1'-0"

PROPOSED
EAST ELEVATION
1 / A-3 1/4"=1'-0"



PROPOSED
SOUTH ELEVATION
4 / A-3 1/4"=1'-0"

PROPOSED
WEST ELEVATION
3 / A-3 1/4"=1'-0"

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RENOVATION AND ADDITION
17509 RIVERWAY DRIVE
LAKEWOOD, OHIO 44107

ISS	REV	PURPOSE	DATE
1		ABR	11/4/21

TITLE:
PROPOSED ELEVATIONS

JOB NO: RES-2021.10
DRAWING NO: **A-3**

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SOUTHEAST
RENDERING
2 A-4 NTS



NORTHEAST
RENDERING
1 A-4 NTS



NORTHWEST
RENDERING
4 A-4 NTS



SOUTHWEST
RENDERING
3 A-4 NTS

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RENOVATION AND ADDITION
17509 RIVERWAY DRIVE
LAKEWOOD, OHIO 44107

ISS		PURPOSE	DATE
1		ABR	11/4/21

TITLE:

PROPOSED
RENDERINGS

JOB NO: RES-2021.10

DRAWING NO: **A-4**

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SOUTHWEST
2 A-5 **RENDERING**
NTS



NORTHEAST
1 A-5 **RENDERING**
NTS



AERIAL
4 A-5 **RENDERING**
NTS



AERIAL
3 A-5 **RENDERING**
NTS

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RENOVATION AND ADDITION
17509 RIVERWAY DRIVE
LAKEWOOD, OHIO 44107

ISS	REV	PURPOSE	DATE
1		ABR	11/4/21

TITLE:
PROPOSED
RENDERINGS

JOB NO:
RES-2021.10

DRAWING NO:
A-5

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T-8 **Plank**Wall®

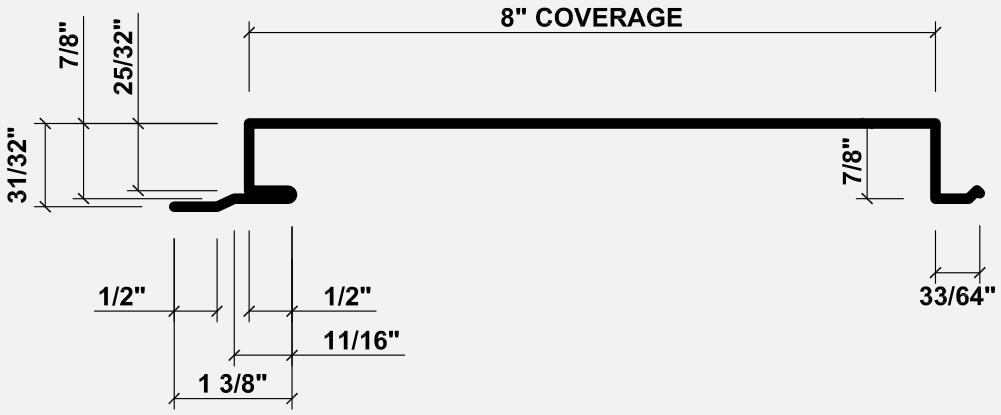
is a painted metal that offers architects and designers an alternative to real wood. Get the look of wood and the benefits of metal.

FOUR-PART WALL & SOFFIT SYSTEM

T-8 PlankWall® panels in Distressed Wood® and Walnut Wood® are installed using four different types of wood grain patterns to form a four-part wall and soffit installation system.

Eliminates repetitive patterns and creates a natural appearance.

T-8 PLANKWALL ®



SPECIFICATIONS

Material Type	T-8 PlankWall®
Product Applications	For Metal Soffit and Flush Wall Installations Only
Panel Height	1"
Overall Width	8" Standard
Available Gauges	24
Substrate	AZ50 Minimum (aka Galvalume®/Zincalume®)

Finishes	• ***Distressed Wood®/Walnut Wood®*** - Cool Tech 500® PVDF *(aka Kynar 500®/Hylar 5000®)* • ***Burnt Wood®*** - CERAM-A-STAR® SMP Paint Finish
Fasteners	Concealed fastener system for wall, soffit, and fascia.
Panel Length	1' to 45'
Installation	Can be installed horizontally or vertically over a solid substrate.

DISTRESSED WOOD® - *Designed to mimic the look of real reclaimed wood. Four-part wall & soffit installation system.*


Distressed Wood® - **Pattern A**


Distressed Wood® - **Pattern B**


Distressed Wood® - **Pattern C**


Distressed Wood® - **Pattern D**

WALNUT WOOD® - *Designed to mimic the look of real dark walnut wood. Four-part wall & soffit installation system.*


Walnut Wood® - **Pattern A**


Walnut Wood® - **Pattern B**


Walnut Wood® - **Pattern C**


Walnut Wood® - **Pattern D**

BURNT WOOD® - *Paint finish replicates the beauty and look of a charcoal-black wood finish. Single wood grain pattern only.*





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AEP SPAN

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DURA TECH™ *5000* - Premium 70% Fluoropolymer (PVDF) Coating



ZINCALUME® Plus*
SRI: 64 • LRV: 67 • GA: 24, 22, & 20

Cool REGAL WHITE
SRI: 88 • LRV: 75 • GA: 24 & 22



Cool PARCHMENT
SRI: 58 • LRV: 40 • GA: 24 & 22



Cool SIERRA TAN
SRI: 55 • LRV: 34 • GA: 24 & 22



Cool PEBBLE
SRI: 48 • LRV: 27 • GA: 24 & 22



Cool WALNUT
SRI: 38 • LRV: 18 • GA: 24 & 22



Cool WEATHERED COPPER
SRI: 34 • LRV: 11 • GA: 24 & 22



Cool DARK BRONZE
SRI: 32 • LRV: 8 • GA: 24 & 22



Cool TERRA-COTTA
SRI: 41 • LRV: 15 • GA: 24 & 22



Cool COLONIAL RED
SRI: 35 • LRV: 9 • GA: 24 & 22



Cool OLD TOWN GRAY
SRI: 43 • LRV: 27 • GA: 24 & 22



Cool ZINC GRAY
SRI: 39 • LRV: 20 • GA: 24 & 22



Cool SLATE GRAY
SRI: 33 • LRV: 12 • GA: 24 & 22



Cool MIDNIGHT BRONZE
SRI: 27 • LRV: 7 • GA: 24 & 22



Cool MATTE BLACK
SRI: 29 • LRV: 5 • GA: 24 & 22



Cool TAHOE BLUE
SRI: 33 • LRV: 14 • GA: 24 & 22



Cool REGAL BLUE
SRI: 29 • LRV: 10 • GA: 24 & 22



Cool SAGE GREEN
SRI: 41 • LRV: 21 • GA: 24 & 22



Cool LEAF GREEN
SRI: 30 • LRV: 11 • GA: 24 & 22



Cool FOREST GREEN
SRI: 29 • LRV: 9 • GA: 24 & 22

[1] Please note that these colors are batch sensitive (may have color variation) and are directional in nature. Different batches are not to be mixed on projects. We recommend that you request a sample of current stocked material to review actual color before ordering to ensure color accuracy. We are not responsible for color variations.

* Clear acrylic coated

PREMIUM COLOR[1]

(Subject to upcharge)



VINTAGE®[1]
SRI: 22 • LRV: 20 • GA: 24

Vintage coated metal is an innovative coating process over a TruZinc® G90 metallic coated steel surface producing a beautiful, durable, aged-metallic finish.

METALLIC COLORS[1]

DURA TECH™ *mx* - Premium Fluoropolymer (PVDF) Pearlescent Coating (Subject to upcharge)



Cool METALLIC SILVER[1]
SRI: 65 • LRV: 50 • GA: 24 & 22



Cool SILVERSMITH[1]
SRI: 58 • LRV: 54 • GA: 24 & 22



Cool ZACtique® II[1]
SRI: 39 • LRV: 22 • GA: 24 & 22



Cool METALLIC CHAMPAGNE[1]
SRI: 54 • LRV: 33 • GA: 24 & 22



Cool METALLIC COPPER[1]
SRI: 53 • LRV: 29 • GA: 24 & 22

REPRESENTATION OF COLORS MAY VARY DUE TO PRINTING LIMITATIONS.

Sample color chips are available upon request. Consult your AEP Span representative for more information.

Color Guide by Architectural Metal Roofing and Siding Products

DURA TECH™ *5000* (PVDF)	SRI	LRV	Design Span®	Span-Lok™ *hp*	Select Seam®	Flex Series	Prestige Series®	Perception Collection®	Flush Panel	HR-36®	Box Rib™	Nu-Wave® Corrugated	PBR Panel	U-Panel	Mini-V-Beam™	Flat Sheet 46"	Flat Sheet 48 3/8"
Cool **Regal White**	88	75	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Cool **Parchment**	58	40	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Cool **Sierra Tan**	55	34	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Cool **Pebble**	48	27	●	●	●	●	●	●	●	●	●	●				●	●
Cool **Walnut**	38	18	●	●	●	●	●	●	●	●	●	●				●	●
Cool **Weathered Copper**	34	11	●	●	●	●	●	●	●	●	●	●	○	○	○	●	●
Cool **Dark Bronze**	32	8	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Cool **Terra-Cotta**	41	15	●	●	●	●	●	●	●	●	●	●	○	○	○	●	●
Cool **Colonial Red**	35	9	●	●	●	●	●	●	●	●	●	●	○	○	○	●	●
Cool **Old Town Gray**	43	27	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Cool **Zinc Gray**	39	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Cool **Slate Gray**	33	12	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Cool **Midnight Bronze**	27	7	●	●	●	●	●	●	●	●	●	●				●	●
Cool **Matte Black**	29	5	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Cool **Tahoe Blue**	33	14	●	●	●	●	●	●	●	●	●	●	○	○	○	●	
Cool **Regal Blue**	29	10	●	●	●	●	●	●	●	●	●	●	○	○	○	●	
Cool **Sage Green**	41	21	●	●	●	●	●	●	●	●	●	●	○	○	○	●	●
Cool **Leaf Green**	30	11	●	●	●	●	●	●	●	●	●	●	○	○	○	●	●
Cool **Forest Green**	29	9	●	●	●	●	●	●	●	●	●	●	○	○	○	●	●
DURA TECH™ *mx* (PVDF)[1]																	
Cool **Metallic Silver**	65	50	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Cool **Silversmith**	58	54	●	●	●	●	●	●	●	●	●	●	□	□		●	●
Cool **ZACtique® II**	39	22	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Cool **Metallic Champagne**	54	33	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Cool **Metallic Copper**	53	29	●	●	●	●	●	●	●	■	■	■	□	□		●	
DURA TECH™ *nt* (SMP)	**The following colors NOT SHOWN refer to DURA TECH™ nt Color Card online**																
Chestnut Brown (26 GA)	36	12								●	●	●	●	●	●	●	
Desert Beige (26 GA)	58	39								●	●	●	●	●	●	●	
Surf White (26 GA)	74	59								●	●	●	●	●	●	●	
Rustic Red (26 GA)	43	13								●	●	●	●	●	●	●	
Denali Green (26 GA)	29	11								●	●	●	●	●	●	●	
Tahoe Blue (26 GA)	33	14								●	●	●	●	●	●	●	
Old Town Gray (26 GA)	43	27								●	●	●	●	●	●	●	
Weathered Copper (26 GA)	32	11								●	●	●	●	●	●	●	
Winter White (26 GA)	88	74								●	●	●	●	●	●	●	
Light Stone (26 GA)	70	53								●	●	●	●	●	●	●	
PREMIUM COLORS [1]	**Natural Rust NOT SHOWN refer to Metal Color Design Guide online**																
Natural Rust (26 GA)	32	10								●	●	●				●	
Vintage®	22	20	○	○	○	○	○	○	○	○	○	○				●	
BARE (Clear Acrylic Coated)																	
ZINCALUME® Plus	64	67	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

PAINT SYSTEM	SMP	PVDF
OVERALL	Better	Best
PRICE POINT	Moderate	Higher
WARRANTY	Long	Longest
DURABILITY	Medium to high. Improved weatherability	Highest weatherability
APPLICATION	Residential and commercial	High-end, architectural and commercial
OTHER ATTRIBUTES	Wide range of colors and gloss options	Excellent chalk and fade resistance

DURA TECH™ *5000*: A premium 70% Fluoropolymer (PVDF) Coating.

DURA TECH™ *mx*: A premium Fluoropolymer (PVDF) Pearlescent Coating.

VINTAGE® COATED METAL: An innovative coating process over a TruZinc® G90 metallic coated steel surface producing a beautiful, durable, aged-metallic finish.

DURA TECH™ *nt*: Silicone-modified polyester (SMP). Used in most residential roofing products sold today.

SPECIALTY PRINTS AND CUSTOM COLORS: Available as special orders with minimum order requirements and extended lead times.

[1] BATCH SENSITIVITY: Prints and metallic coatings are batch sensitive (may have color variation) and are directional in nature. Different batches are not to be mixed on projects. AEP Span recommends requesting a sample to review actual color before ordering to ensure color accuracy. AEP Span is not responsible for color variations.

OIL CANNING: All flat metal surfaces can display waviness commonly referred to as "oil canning". "Oil canning" is an inherent characteristic of steel products, not a defect, and therefore is not a cause for panel rejection.

TABLE NOTES:

● Color Availability
○ 24 GA Only
■ 22 Approved Non-Inventory
□ 24 and 22 Approved Non-Inventory

SRI: Solar Reflective Index.
LRV: Light Reflectance Value.

SRI values in accordance with ASTM E1980 and are based on independent testing. Cool Roof Rating Council (CRRC) performance values for CA Title 24, Energy Star are based on color families and will differ from those listed in table.

REPRESENTATION OF COLORS MAY VARY DUE TO PRINTING LIMITATIONS.
Sample color chips are available upon request. Consult your AEP Span representative for more information.

DURA TECH™ Fluoropolymer Coatings

Dura Tech™ coatings combine the corrosion protection of a ZINCALUME® substrate with a highly durable resin formulation and cool pigment technology to provide excellent color retention and reduces the demand for energy.

DURA TECH *5000* and DURA TECH *mx*	ASTM[2]	PERFORMANCE
Standard Film Thickness	D5796	0.15 - 0.25 mil primer, 0.70 - 0.80 mil top coat 0.50 mil backer coat (Polyester system applied over a primer)
Marine Environment Film Thickness	D5796	0.70 - 0.80 mil primer, 0.70 - 0.80 mil topcoat, 0.40 - 0.50 mil clear coat
Other unusual environmental conditions or specialized pigmentation may have different primer and clear coat requirements.		
Specular Gloss	D523	8-15% at 60º (Dura Tech 5000) 15-25% at 60º (Dura Tech mx)
Pencil Hardness	D3363	F-2H
Flexibility T-Bend	D4145	2T No loss of adhesion or evidence of cracking[3]
Cross Hatch Adhesion	D3359	No adhesion loss
Reverse Impact	D2794	No cracking or loss of adhesion
Abrasion, Falling Sand	D968	65 liters minimum
Flame Test	E84	Class A coating
Acid Pollutants 20% Sulfuric Acid, 18hrs. 10% Muriatic Acid, 24hrs.	D1308	 No bleaching No color change, no blistering
Acid Rain Test	Kesternich	15 cycles minimum
Alkali Resistance	Kesternich	No effect
Salt Spray Resistance	B117	Passes 1,000 hours, coated steel[3]
Cyclic Salt Fog	B5894	2,000 hours passes adhesion
Humidity Resistance @ 100º	B2247	Passes 2,000 hours, coated steel[3]
South Florida Exposure	D2244	<5 NBS units change
UVB	D822	Passes 3,000 hours
Chalk Resistance	D4214	Rating of 8 minimum
ZINCALUME® and Galvalume® substrate	A792	55% aluminum-zinc alloy coated steel with a metallic coating weight of AZ50

Declare. Red List Free

FINISH WARRANTIES

Limited warranties for chalk, fade and film integrity are available in durations of up to 40 years for both Dura Tech™ 5000 and Dura Tech™ mx. All AEP Span panels are offered with a corrosion warranty on Galvalume® or ZINCALUME® substrate. Terms can be affected by factors such as environment and building use. Vintage warranty varies. Inquire for details.

COMPOSITION & APPLICATION:

Dura Tech™ 5000/mx coatings are factory applied, oven cured formulas applied by approved coil coaters. They utilize Kynar 500® or Hylar 5000® PVDF resins and inorganic, IR reflective pigments for superior long-term performance.

PRETREATMENT

All substrates are pre-treated in accordance with paint manufacturer's instructions. The pretreatment is to provide a suitable surface for application of the recommended primer.

METALLIC COATINGS

With metallic coatings, minor differences in both color and appearance are normal and to be expected. It is virtually impossible to match one metallic coating to another. Due to the coil application process, striations and longitudinal patterning may also show on these products. To minimize the possible visual effects of the normal minor differences in paint and its application, an entire job should be painted at one time. Additionally, fabricated panels, flat sheets, and flashings should be orientated in the same direction for installation. Contact AEP Span representative for actual color samples prior to purchase.

VINTAGE - Vintage coated metal is an innovative coating process over a TruZinc® G90 metallic coated steel surface producing a beautiful, durable, aged-metallic finish.

Vintage specifications and warranty vary slightly from those stated above. Please visit www.aepspan.com/resource-center/warranties for details or contact an AEP Span representative for details.

[2] All tests performed to the latest ASTM revision. The test results set forth are representative of the results obtained by the paint manufacturer.
[3] Performances on HDG G90, ZINCALUME®, Galvalume®.

SRI=Solar Reflective Index. LRV=Light Reflectance Value. GA= Gauge of Steel.
SRI values in accordance with ASTM E1980 and are based on independent testing. Cool Roof Rating Council (CRRC) performance values (for CA Title 24, Energy Star) are based on color families and will differ from those listed above. Please visit www.aepspan.com for additional information.

Cool DURA TECH 5000 Cool DURA TECH mx CRRC COOL ROOF RATING COUNCIL MEMBER

FINISHES DEVELOPED BY steelscape

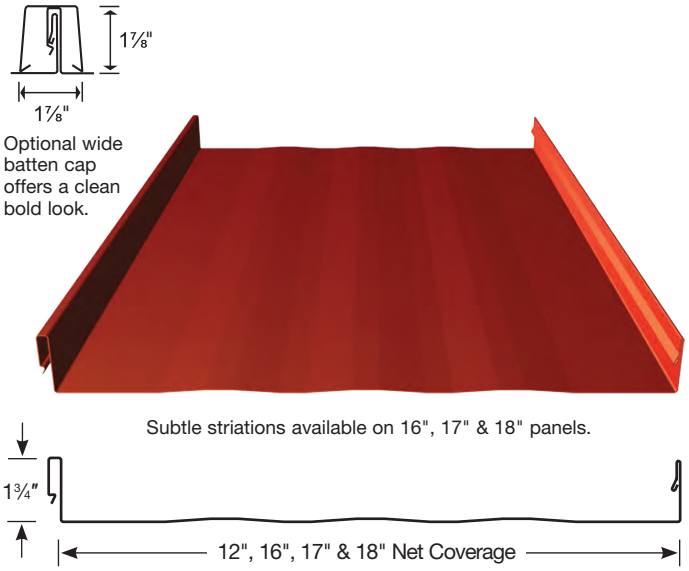
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All information stated in the color chart is correct at time of printing and subject to change without notice, check our website for the latest version. 0521 web (CC046)

800-733-4955
www.aepspan.com

Design Span® *hp*

Design Span *hp* is a performance-rated structural standing seam, concealed fastener metal roof system with net coverage of 12", 16", 17" & 18".

Design Span *hp* is excellent as a roof over metal or wood decking, and as a fascia or mansard over plywood or supports.



Section Properties									
Width	Gauge	Base Steel Thickness (in)	Yield (ksi)	Tensile (ksi)	Wt. (lbs/ft²)	I+ (in⁴/ft)	S+ (in³/ft)	I- (in³/ft)	S- (in³/ft)
12"	24	0.0232	50	65	1.45	0.1185	0.0820	0.0762	0.0586
	22	0.0294	50	65	1.83	0.1522	0.1080	0.0997	0.0771
16"	24	0.0232	50	65	1.34	0.0943	0.0624	0.0593	0.0440
	22	0.0294	50	65	1.68	0.1213	0.0825	0.0773	0.0580
17"	24	0.0232	50	65	1.31	0.0901	0.0589	0.0562	0.0414
	22	0.0294	50	65	1.65	0.1158	0.0779	0.0734	0.0546
18"	24	0.0232	50	65	1.30	0.0858	0.0557	0.0533	0.0391
	22	0.0294	50	65	1.63	0.1104	0.0737	0.0696	0.0515

NOTE: The hybrid positive moment of inertia, I, presented for determining deflection is: $(2I_{Effective} + I_{Gross})/3$

standard features

- Offered in 12", 16", 17" & 18" widths.
- Factory applied sealant is a standard offer.
- Custom manufactured sheet lengths from 5'-3" to 45'-0".
- Subtle striations between ribs available for 16" and wider panels.
- Available in 24ga and 22ga in standard finishes - Refer to AEP Span Color Charts for full range of color options, prints, textures, finishes and paint systems.
- Recommended minimum slope of 2:12. Inquire for slopes below 2:12.
- Tested in accordance with UL580-Class 90 & ASTM E1592.
- Has been tested for air infiltration per ASTM E1680, and water infiltration per ASTM E1646.
- Snap-together panel, no field seaming required.
- Panel evaluated by accredited third party. All structural performance data is contained within an IBC/IRC 2018 code compliance report #ER-0309.

optional features

- Short cut sheets from 6'-0" to 1'-0". Additional fees and lead times may apply.
- Lengths over 45' available for additional charge.
- Additional wide batten cap option offers a clean bold look with the structural capacity and weather resistance of regular Design Span hp.
- Factory notching available for turn under at the eave.

Customer Service Center
Tacoma, WA
Phone: 800-733-4955
Fax: 253-272-0791

For most current versions of literature please visit
www.aepspan.com

Design Span® *hp*

AEP SPAN

12" Design Span *hp*

Gauge	Span	Cond.	Allowable Inward Loads (lbs/ft²) per Span (ft.-in.)						
			2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"
24	Single Span	W/Ω	409	262	182	134	102	81	65
		L/180	1295	663	384	242	162	114	83
	Double Span	W/Ω	275	180	126	93	71	56	46
		L/180	3120	1597	924	582	390	274	200
	Triple Span	W/Ω	337	221	156	116	89	71	57
		L/180	2444	1251	724	456	305	215	156
22	Single Span	W/Ω	539	345	240	176	135	106	86
		L/180	1663	851	493	310	208	146	106
	Double Span	W/Ω	367	239	167	123	95	75	61
		L/180	4006	2051	1187	747	501	352	256
	Triple Span	W/Ω	451	295	207	153	118	93	76
		L/180	3138	1607	930	586	392	275	201

Gauge	Allowable Outward Loads (lbs/ft²) per Span (ft.-in.)								
	1'-0"	1'-6"	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"
24	82	76	71	67	63	59	56	52	48
22	82	76	71	67	63	59	56	52	48

16" Design Span *hp*

Gauge	Span	Cond.	Allowable Inward Loads (lbs/ft²) per Span (ft.-in.)						
			2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"
24	Single Span	W/Ω	309	199	138	102	78	62	50
		L/180	1030	527	305	192	129	90	66
	Double Span	W/Ω	206	135	94	70	54	43	34
		L/180	2481	1270	735	463	310	218	159
	Triple Span	W/Ω	253	166	117	86	66	52	43
		L/180	1943	995	576	363	243	171	124
22	Single Span	W/Ω	412	263	183	134	103	81	66
		L/180	1325	678	393	247	166	116	85
	Double Span	W/Ω	245	180	126	92	71	56	45
		L/180	3191	1634	946	595	399	280	204
	Triple Span	W/Ω	278	222	155	115	89	70	57
		L/180	2500	1280	741	466	312	219	160

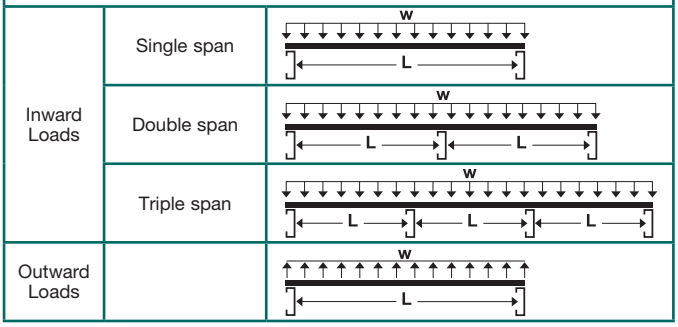
Gauge	Allowable Outward Loads (lbs/ft²) per Span (ft.-in.)								
	1'-0"	1'-6"	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"
24	49	42	36	30	29	29	29	28	28
22	74	66	58	49	49	48	47	47	46

17" and 18" Design Span *hp*

Gauge	Span	Cond.	Allowable Inward Loads (lbs/ft²) per Span (ft.-in.)						
			2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"
24	Single Span	W/Ω	275	178	124	91	70	55	44
		L/180	937	480	278	175	117	82	60
	Double Span	W/Ω	184	120	84	62	48	38	31
		L/180	2258	1156	669	421	282	198	144
	Triple Span	W/Ω	225	147	104	77	59	47	38
		L/180	1769	906	524	330	221	155	113
22	Single Span	W/Ω	368	235	164	120	92	73	59
		L/180	1207	618	358	225	151	106	77
	Double Span	W/Ω	218	160	111	82	63	50	40
		L/180	2907	1488	861	542	363	255	186
	Triple Span	W/Ω	247	196	139	102	79	63	51
		L/180	2277	1166	675	425	285	200	146

Gauge	Allowable Outward Loads (lbs/ft²) per Span (ft.-in.)								
	1'-0"	1'-6"	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"
24	48	42	35	29	29	28	28	28	27
22	67	59	51	43	43	42	42	41	41

LOADING TABLE LEGEND
W/Ω - Allowable panel strength
L - Span (Inches)
L/180 - Load limited by a deflection of 1/180 of the span
W - Distributed load



NOTES:

- The information in these tables applies to uniform loads only.
- Upper values based on allowable panel strength.
  Bottom values based on allowable service load deflection of L/180.
- Steel conforms to ASTM A792 (ZINCALUME®) 50,000 psi minimum yield.
- Values are based on S100-16/S1-18.
- Maximum allowable outward load capacities are shown and dependent upon fastener-to-substrate capacities. Refer to IAPMO-UES report #ER-0309 for specific product capacities.

Specifications subject to change without notice.

Oil Canning

All flat metal surfaces can display waviness commonly referred to as "oil canning". "Oil canning" is an inherent characteristic of steel products, not a defect, and therefore is not a cause for panel rejection.

Customer Service Center
Tacoma, WA
Phone: 800-733-4955
Fax: 253-272-0791

For most current versions of literature please visit
www.aepspan.com

All information stated in the product sheet is correct at time of printing and subject to change without notice, check our website for the latest version.
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Design Span® hp Guide Specifications

MANUFACTURER - AEP SPAN
2141 Milwaukee Way, Tacoma, WA 98421, 800-733-4955
10905 Beech Avenue, Fontana, CA 92337

This Guide Specification is to be used to develop an office master specification or specifications for a project. In either case, this Guide Specification must be edited to fit the conditions of use. Particular attention should be given to the deletion of inapplicable provisions. Include necessary items related to a particular project. Include appropriate requirements where blank spaces have been provided.

SECTION 07411 – Preformed (Manufactured) Roof Panels

Note to Designer: This product is suitable for slopes as low as 3:12. Please consult an AEP Span representative for slope design restrictions

PART 1 – GENERAL

1.01 SECTION INCLUDES

The work includes, but is not necessarily limited to, furnishing and installation of all preformed metal roofing, and accessories as indicated on the drawings and specified herein.

1.02 RELATED SECTIONS

Edit for project conditions. Section Numbers indicated are those recommended by CSI Masterformat; revise if numbers differ from those used in Project Manual.

A. Structural Steel Supports: Section 05100
B. Structural Metal Roof and Floor Decking: Section 05300
C. Miscellaneous Fabricated Steel: Section 05500
D. Structural Lumber Supports: Section 06100
E. Structural Glue Laminated Lumber Supports: Section 06181
F. Thermal Insulation: Section 07200
G. Fireproofing: Section 07250
H. Sheetmetal Gutters and Downspouts: Section 07600
I. Joint Sealants not specified herein: Section 07900
J. Finish Painting not specified herein: Section 09900

1.03 PERFORMANCE REQUIREMENTS

A. TESTING AND CERTIFICATION
   1. Wind Uplift:
      a. The panel system shall be ASTM E1592 tested under the supervision of an accredited laboratory and the laboratory shall issue the test report.
         1. The testing laboratory shall meet the requirements for compliance with the ISO/IEC Standards 17025 or an accredited independent agency, recognized by the International Laboratory Accreditation Cooperation Mutual Recognition Arrangement or ANSI.
      b. UL 580 test, Class 90 rated per (select applicable construction):
         1. [Construction #364 minimum 24 gauge panels when installed over 5/8” plywood, with roof panel fastener clips spaced 2’-0” on center maximum.]
         2. [Construction #365 minimum 24 gauge panels when installed over minimum 16 gauge steel purlins, with roof panel fastener clips spaced 4’-0” on center maximum.]
         3. [Construction #366 minimum 24 gauge panels when installed over minimum 22 gauge steel deck, with roof panel fastener clips spaced 4’-0” on center maximum.

Note: UL certification does not indicate panel suitability for actual project conditions. Design Span® *hp* is tested in a structural condition for maximum uplift exposure. However, AEP Span promotes the application of Design Span® hp over a solid substrate. See Section 1.04, Item D.1 for actual project uplift conditions

Note: UL 580 rating is for 12", 16", 17" and 18" width panels in steel only.

2. Air Infiltration: Panel to meet the following standard when in accordance with ASTM E-1680:
   a. With factory-applied continuous sealant 0.08 cfm/lineal ft. of panel seam at 1.57 psf positive pressure, and 0.13 cfm/lineal ft. of panel seam at 1.57 psf negative pressure.
3. Water Penetration: Panel to meet the following standard when tested in accordance with ASTM-E1646:
   a. With factory-applied continuous sealant, no leakage at 6.24 psf.

1.04 SUBMITTALS

A. PRODUCT DATA
1. Submit manufacturer's technical product data, installation instructions and recommendations for each type of roofing required. Include data substantiating that materials comply with requirements.

B. SAMPLES
1. Prior to ordering products, submit Manufacturer's standard color Samples for Architect's/Engineer's selection.
2. Prior to starting work, submit (quantity) 12" long Panel Samples showing shape and a representative color chip for Architect's/Engineer's acceptance.

C. SHOP DRAWINGS
1. Submit complete shop drawings detailing all perimeter flashings and joints in accordance with the manufacturer's standard recommendations.
2. Describe all proposed details that deviate from what is shown on the plans.
3. Details must allow for expansion and contraction.

D. DESIGN CRITERIA
1. Wind Uplift: The roof system manufacturer shall provide an attachment schedule or supporting calculations to resist the following uplift loads:
   a. Uplift loads as calculated using the _____ Edition of the IBC with a _____ MPH basic wind speed, Exposure Factor _____, and importance Factor _____.

On more complex roofs, a roof plan showing the areas of discontinuity (perimeter and corner zones) should be provided by the Engineer of Record. Item 2, below, is for snow load applications only.

2. Drag Loading: The roof panel manufacturer shall provide an attachment schedule calculations to resist drag loads induced by a snow load of _____ psf.

1.05 QUALITY ASSURANCE

A. INSTALLER'S QUALIFICATIONS
1. Installer must be approved by the Panel Manufacturer in writing prior to work commencing.
2. Installer shall meet the following:
   a. Successfully applied five metal roofs of comparable size and complexity which reflects a quality weathertight installation.
   b. Have been in business for a minimum period of five years in the region where the work will be performed.

B. MANUFACTURER'S QUALIFICATIONS
   1. Manufacturer shall have a minimum of 10 years experience supplying metal roofing to the region where the work is to be done.
   2. Comply with current independent testing and certification as specified.
   3. Manufacturer shall provide proof of $2,000,000 liability insurance for their metal roof system and comply with current independent testing and certification as specified.
   4. The roof panel manufacturer must also subscribe to Underwriters Laboratories' "Follow Up Service" assuring continuing product compliance with UL requirements. Shipment packaging of panels and attachment clips must bear UL classification markings.
   5. Panel manufacturers without full supporting literature; Flashings & Details Guides, Guide Specifications and Technical Support, shall not be considered equal to the specified product.

C. REGULATORY AGENCY REQUIREMENTS
   1. Comply with UBC and local Building Code requirements if more restrictive than those specified herein.

1.06 PRODUCT DELIVERY, STORAGE AND HANDLING

A. Protect against damage and discoloration.
B. Handle panels with non-marring slings.
C. Do not bend panels.
D. Store panels above ground, with one end elevated for drainage.
E. Protect panels against standing water and condensation between adjacent surfaces.
F. If panels become wet, immediately separate sheets, wipe dry with clean cloth, and allow to air dry.
G. Painted panels shall be shipped with a protective plastic sheeting or a strippable film coating between all panels. [Remove any strippable film coating prior to installation and in any case, do not allow the strippable film coating to remain on the panels in extreme heat, cold, or direct sunlight or other UV source.]

1.07 PROJECT CONDITIONS

A. Examine the conditions and substrates in which metal roofing work is to be installed. Substrate shall be installed level, flat and true to avoid panel stresses and distortion.
B. Field measurements shall be taken prior to fabrication of panels.
C. Proceed with roofing installation only after satisfactory conditions are met.

1.08 WARRANTY

A. MANUFACTURER'S PRODUCT WARRANTY
   1. Manufacturer's standard performance warranty, as available for specified installation and environmental conditions. (Contact an AEP Span representative to determine actual warranty criteria.)

B. CONTRACTOR'S WARRANTY
   1. Warrant panels, flashings, sealants, fasteners and accessories against defective materials and/or workmanship, to remain watertight and weatherproof with normal usage for two (2) years following Project Substantial Completion date.

C. MANUFACTURER'S WATERTIGHTNESS WARRANTY
   1. Contact AEP Span sales department for watertightness warranty information.

PART 2 – PRODUCTS

2.01 ACCEPTABLE MANUFACTURER

A. AEP Span, A Division of ASC Profiles Inc, 2110 Enterprise Boulevard, West Sacramento, CA 95691
800-733-4955
Fontana: 10905 Beech Avenue, Fontana, California 92337
Tacoma: 2141 Milwaukee Way, Tacoma, Washington 98421

B. PANEL DESIGNATION: Design Span® *hp*

C. ALTERNATES: Approval of substitute systems is required prior to bid. The Architect will be the sole judge of what qualifies as an “equal” system. To be approved as an equal system, submit or respond to all items in “Quality Assurance”, “Performance Requirements” and “Submittal “ sections of this specification. All submittals must be received in the Architect’s office a minimum of ten (10) working days prior to bid.

2.02 MATERIALS

A. PANELS

1. Base Metal:
   a. Material: Steel conforming to: (choose one)
      (1) ASTM A792 minimum yield 50,000 psi, thickness [choose one] 24 gauge (standard), 22 gauge (standard in select colors).
      (2) [For primers thicker than 0.5 mil] Steel conforming to ASTM A653 (formerly ASTM A446), G-90 Galvanized, minimum yield 50,000 psi, thickness [choose one] 24 gauge (standard), 22 gauge (standard in select colors).
      (3) Copper conforming to ASTM B370, thickness [choose one] 16 oz. (nonstandard), 20 oz. (nonstandard).
   b. Protective Coatings: [delete this section for copper]
      (1) Conform to ASTM A792, AZ50 (Zincalume®/Galvalume®).
      (2) [Only if primer thickness is in excess of 0.5 mil] Conform to ASTM A924 (formerly ASTM A525) G-90 Galvanized.
2. Exterior Finish: (choose one)
   a. DuraTech® 5000 (Polyvinylidine Fluoride), full 70% Kynar® 500/Hylar 5000® consisting of a baked-on 0.15-0.20 mil corrosion resistant primer and a baked-on 0.70-0.80 mil finish coat with a specular gloss of 10-30% when tested in accordance with ASTM D-523 at 60°.
   b. Zincalume® Plus protective coating.
   c. DuraTech® mx metallic finish, consisting of a baked-on primer (0.15-0.2 mil.) and a baked-on Polyvinylidine Fluoride finish coat (0.7-0.8 mil.) with a specular gloss of 20-35% when tested in accordance with ASTM D-523 at 60°.
3. Interior Finish:
   a. Primer Coat Material: Corrosion-resistant primer; primer coat dry film thickness: 0.15 mils; finish coat material: polyester paint, finish coat dry film thickness: 0.35 mils.
   b. Color: Off-White to Light Gray
4. Color: (choose one)
   a. Manufacturer’s standard selection of not less than 22 colors.
   b. Custom color as selected by Architect to be _____.

Custom colors are available on orders of 3,000 lft (1,500 lft mother coil) or larger. Consult an AEP Span representative for additional information.

5. Factory-Applied Seam Sealant:
   a. Cold-applied, non-skinning, butyl mastic sealant.
6. Configuration:
   a. Standing Seam: Roof panels shall consist of integral self-locking standing seams 1-3/4” high spaced (choose one) 12”, 16”, or 18” on center. (17” available as non-standard width.) [choose one]
      (1) Striated pan. (standard)
      (2) Flat pan. (optional)

Note: All flat metal surfaces can display a waviness commonly referred to as “oil canning”. This is caused by steel mill tolerances and is a characteristic, not a defect, of panels manufactured from a light gauge metal. As such, “oil canning” will not be accepted as cause for panel rejection.

B. ACCESSORIES

1. Fastener Clip:
   a. UL 90 rated 18 gauge G-90 Galvanized steel, 40 ksi yield strength, 3-1/2” long triple fastener type.
2. Fasteners:
   a. Per manufacturer’s recommendation.
3. Sealant:
   a. Gunnable Grade Caulking: Single component polyurethane caulk.
   b. Tape sealant: Butyl
4. Bearing Plate:
   a. 24 gauge 4”x6” Zincalume® coated steel bearing plate.

C. FLASHING

1. Material, gauge and finish to match panels. Do not use lead or copper.

D. FABRICATION

1. Unless otherwise shown on drawings or specified herein, fabricate panels in continuous one-piece lengths and fabricate flashings and accessories in longest practical lengths.
2. Roofing panels shall be factory formed. Field formed panels are not acceptable.

PART 3 – EXECUTION

3.01 EXAMINATION

A. EXISTING CONDITIONS

1. Verify that members to receive panels are complete, accurately sized and located, in true plane, secure and otherwise properly prepared.
2. Prior to starting work, notify General Contractor about any defects requiring correction.
3. Do not start work until conditions are satisfactory.

3.02 PREPARATION

A. FIELD MEASUREMENTS

1. Verify prior to fabrication.
2. If field measurements differ from drawing dimensions, notify Architect/Engineer prior to fabrication.

B. PROTECTION

1. Treat, or isolate with protective material, and contacting surfaces of dissimilar materials to prevent electrolytic corrosion.
2. Require workmen who will be walking on Roofing Panels to wear clean, soft-soled work shoes that will not pick up stones or other abrasive material which could cause damage or discoloration.
3. Protect Work of other Trades against damage and discoloration.

C. SURFACE PREPARATION

1. Clean and dry surfaces prior to applying sealant.

3.03 INSTALLATION

A. PANELS

1. Follow roof panel manufacturer's directions.
2. Install panel seams vertically.
3. Lap panels away from prevailing wind direction.
4. Do not stretch or compress panel side-lap.
5. Secure panels without warp or deflection.
6. Fully engage interlocking seams.
7. Remove strippable protective film, if used, immediately preceding panel installation.

B. ALLOWABLE ERECTION TOLERANCE

1. Maximum Alignment Variation: 1/4 inch in 40 feet

C. FLASHING

1. Follow Manufacturer's directions and Architect approved Shop Drawings.
2. Install flashings to allow for thermal movement.
3. Remove strippable protective film, if used, immediately preceding flashing installation.

D. CUTTING AND FITTING

1. Neat, square and true. Torch cutting is prohibited.
2. Openings 6 inches and larger in any direction: Shop fabricate and reinforce to maintain original load capacity.
3. Debur cut edge where necessary to saw-cut panels.

3.04 CLEAN UP AND CLOSE OUT

A. PANEL DAMAGE AND FINISH SCRATCHES

1. Do not apply touch-up paint to damaged paint areas that involve minor scratches.
2. Panels or flashings that have severe paint and/or substrate damage shall be replaced as directed by the Architect's or Owner's representative.

Note: AEP Span does not recommend touch-up painting of damaged surfaces (minor scratches, etc.) due to fading and weathering differences of the touch-up paints in comparison to factory applied paint systems.

B. CLEANING AND REPAIRING

1. At completion of each day's work and at work completion, sweep Panels, Flashings and Gutters clean. Do not allow fasteners, cuttings, filings or scraps to accumulate.
2. Remove debris from Project Site upon work completion or sooner, if directed.

END OF SECTION

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KYNAR 500® is a registered trademark of Atechem North American Inc.
HYLAR 5000® is a registered trademark of Ausimont USA, Inc.

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Design Span hp CSI Guide Specifications

PLANK, PANEL, BATTEN AND SHINGLE COLORS

ARCTIC WHITE


NAVAJO BEIGE


COBBLE STONE


PEARL GRAY


BOOTHBAY BLUE


SANDSTONE BEIGE


AUTUMN TAN


MONTEREY TAUPE


GRAY SLATE


EVENING BLUE


HEATHERED MOSS


KHAKI BROWN


WOODSTOCK BROWN


AGED PEWTER


IRON GRAY


MOUNTAIN SAGE


CHESTNUT BROWN


TIMBER BARK


NIGHT GRAY


DEEP OCEAN


RICH ESPRESSO


TRADITIONAL RED


COUNTRYLANE RED

Architectural Wall Products Guide Specifications

Western States Metal Roofing
901 W. Watkins St.
Phoenix, AZ 85007
PH: 602-495-0048
FX: 602-261-7726

FORMED METAL WALL PANELS

This Guide Specification is to be used to develop an office master specification for a project. In either case, this Guide Specification must be edited to fit the conditions of use. Particular attention should be given to the deletion of inapplicable provisions. Include necessary items related to a particular project. Include appropriate requirements where blank spaces have been provided.

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and other contract documents, listed in the agreement between the Owner and Contractor, apply to this section.

1.2 SUMMARY

A. Section includes:

1. Preformed metal wall panels.
2. Preformed metal soffit panels.

1.3 ADMINISTRATIVE REQUIREMENTS

A. Pre-installation Conference: Conduct conference at project site.

B. Coordination:

1. Coordinate sizes and locations of roof curbs, equipment supports, and roof penetrations with actual equipment provided.
2. Coordinate metal panel installation with rain drainage work, flashing, trim, construction of soffits, and other adjoining work to provide a leak proof, secure, and noncorrosive installation.

1.4 SUBMITTALS

A. Product Data:

1. Include construction details, material descriptions, dimensions of individual components and profiles and finishes for each type of panel and accessory.

B. Shop Drawings:

1. Include fabrication and installation layouts of metal panels; details of edge conditions, joints, panel profiles, corners, anchorages, attachment system, trim, flashings, closures, accessories and special details.
2. Accessories: Include details of the flashing, trim, and anchorage systems, at a scale of not less than 1-1/2 inches per 12 inches.

C. Samples:

1. Metal Panels: 12 inches long by actual panel width. Include fasteners, closures, and other metal panel accessories.

D. Qualification Data: For Installer.

E. Product Test Reports: For each product, for tests performed by a qualified testing agency.

F. Filed quality – control reports.

G. Sample Warranties: For special warranties.

1.5 QUALITY ASSURANCE

A. Installer Qualifications: An entity that employs installers and supervisors who have a minimum of 3 years' experience in the installation of metal roof / wall panels.

B. Mockups: Build mockup; to verify selections made under sample submittals and to demonstrate aesthetic effects and set quality standards for fabrication and installation.

1.6 DELIVERY, STORAGE AND HANDLING

A. Deliver components, metal panels and other manufactured items so as not to be damaged or deformed. Package metal panels for protection during transportation and handling.

B. Store metal panels in a manner to prevent bending, warping, twisting and surface damage.

C. Stack metal panels horizontally on platforms or pallets, covered with suitable weather tight and ventilated covering. Store metal panels to ensure dryness with positive slope for drainage of water. Do not store metal panels in contact with other materials that might cause staining, denting or other surface damage.

D. Retain strippable protective covering on metal panels during installation.

1.7 FIELD CONDITIONS

A. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit assembly of metal panels to be performed according to manufacturers' written instructions and warranty requirements.

1.8 WARRANTY

A. MANUFACTURER'S PRODUCT WARRANTY

1. Manufacturer's standard coating performance warranty, as available for specified installation and environmental conditions. (Contact a WSMR Representative to determine actual warranty criteria)

B. CONTRACTORS WARRANTY

1. Warrant panels, flashings, sealants, fasteners, and accessories against defective materials and/ or workmanship, to remain watertight and weatherproof with normal usage for two (2) years following Project Substantial Completion date.

PART 2 – PRODUCTS

2.1 MANUFACTURER

A. Western States Decking, Inc., DBA - Western States Metal Roofing, 901 W. Watkins St., Phoenix, AZ 85007; Ph: (877) 787-5467, Fax: (602) 261-7726.

Email: sales@westernstatesmetalroofing.com
Website: www.westernstatesmetalroofing.com

B. Substitutions: In accordance with contract documents.

2.2 METAL WALL PANELS

A. T-8 Plank Wall ®; Flush- Profile, Concealed Fastener Metal Wall / Soffit Panels: Metal panels consisting of formed metal sheet with vertical panel edges, with flush joints or reveal between panels and attached to supports using concealed fasteners.

1. Panel Designation: T-8 Plank Wall ® Panel
2. Metallic- Coated Steel Sheet: Aluminum- zinc alloy- coated steel sheet minimum (Zincalume® or Galvalume®) complying with ASTM A 792/ A 792M, Class AZ50 coating designation; structural quality.

a. Nominal Thickness: [24 gauge]
b. Exterior Finish Available in: Cool Tech ®-SMP (Siliconized Modified Polyester)

i. Burnt Wood ®

3. Grade of Steel:

    a. 24 Gauge – Grade 50

4. Panel Width: 8 inches
5. Panel Height:1.0 inch
6. T8= 8” Face / No Reveal
7. T8R= 7.75” Face / .25 Reveal = 8” Face

2.3 ACCESSORIES

A. Self-Adhering, High- Temperature Underlayment: Provide self-adhering, cold applied, sheet underlayment, a minimum of 30 mils thick, specifically designed to withstand high metal temperatures beneath metal roofing. Provide primer when recommended by underlayment manufacturer.

1. Thermal Stability: Stable after testing at 220 deg F; ASTM D 1970.
2. Low- Temperature Flexibility: Passes after testing at minus 20 deg F; ASTM D 1970.

B. Miscellaneous Metal Sub framing and Furring: ASTM C 645; cold formed, metallic- coated steel sheet, ASTM A 653/ A 653M, G90 coating designation or ASTM A 792/ A 792M, Class AZ55 aluminum- zinc alloy coating designation unless otherwise indicated. Provide manufacture’s standard sections as required for support and alignment of metal panel system.

C. Panel accessories: Provide components required for a complete, weather tight panel system including trim, clips, flashings, sealants, gaskets, fillers, closure strips, and similar items. Match material and finish of metal panels unless otherwise indicated.

1. Closures: Provide closures at eaves and ridges, fabricated of same metal as metal panels.
2. Backing Plates; Provide metal backing plates at panel end splices, fabricated from material recommended by manufacturer.
3. Closure Strips: Closed-cell, expanded, cellular, rubber or cross linked, polyolefin-foam or closed-cell laminated polyethylene; minimum I -inch-thick, flexible closure strips; cut or pre-molded to match metal panel profile. Provide closure strips where indicated or necessary to ensure weather tight construction.

D. Flashing and Trim: Provide flashing and trim formed from same material as metal panels as required to seal against weather and to provide finished appearance. Finish flashing and trim with same finish systems adjacent metal panels.

E. Panel Fasteners: Self-tapping screws designed to withstand design loads. Provide EPDM or PVC sealing washers for exposed fasteners.

F. Panel Sealants: Provide sealant type recommended by manufacturers that are compatible with panel materials, are non-staining and do not damage panel finish.

G. Metal Protection: When dissimilar metals contact each other or corrosive substrates, protect against galvanic.

2.4 FABRICATION

A. General: Fabricate and finish metal panels and accessories at the factory, by manufacturer's standard procedures and processes, as necessary to fulfill indicated performance requirements demonstrated by laboratory testing. Comply with indicated profiles and with dimensional and structural requirements.

B. Provide panel profile, including major ribs and intermediate stiffening ribs, if any, for full length of panel.

C. Sheet Metal Flashing and Trim: Fabricate flashing and trim to comply with manufacturer's recommendations and recommendations in SMACNA's "Architectural Sheet Metal Manual" that apply to design, dimensions, metal, and other characteristics of item indicated.

2.5 FINISHES

A. Protect mechanical and painted finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

B. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one- half of the range of approved Samples. Noticeable variations in same piece are unacceptable. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

C. Steel Panels Finish:

1. Exterior Finish: Ceramastar Expressions Charred Woodgrain Print
   Top: .70-.80 Mil Topcoat SB0E64484 Rev: .30-.40 Mil Backer PW9R61794
   .05-.15 Mil Print Ink PC9E62132 .10-.20 Mil Primer UY9R60000
   .10-.20 Mil Primer UY9R60000

2. Interior Finish: Standard Polyester backer finish consisting of 0.15 – 0.25 primer coat and a 0.30 – 0.40 mil wash coat with a minimum total dry film thickness of 0.45 – 0.65 mil.

PART 3- EXECUTION

3.1 EXAMINATION

A. Examine substrates, area, and conditions, with installer present, for compliance with requirements for installation tolerances, metal panel supports, and other conditions affecting performance of the work.

1. Examine wall framing to verify that girths, angles, channels, studs, and other structural panel support members and anchorage have been installed within alignment tolerance required by metal wall panel manufacturer.

2. Examine solid roof sheathing to verify that sheathing joints are supported by framing or blocking and that installation is within flatness tolerances required by metal roof panel manufacture.

a. Verify that air or water-resistive barriers have been installed over sheathing or backing substrate to prevent air infiltration or water penetration.

B. Examine roughing-in for components and systems penetrating metal panels to verify actual locations of penetrations relative to seam locations of metal panels before installation.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Miscellaneous Supports; Install sub framing, furring and other miscellaneous panel support members and anchorage according to ASTM C 754 and metal panel manufacturer's written recommendations.

3.3 UNDERLAYMENT INSTALLATION

A. Self- Adhering Sheet Underlayment: Apply primer if required by manufacturer. Comply with temperature restrictions of underlayment manufacturer for installation. Apply at locations indicated on Drawings, wrinkle free, in shingle fashion to shed water, and with end laps of not less than 6 inches staggered 24 inches between courses. Overlap side edges not less than 3- ½ inches. Roll laps with roller. Cover underlayment within 14 days.

B. Felt Underlayment: Apply at locations indicated [below] [on drawings], in shingle fashion to shed water. And with lapped joints of not less than 2 inches.

1. Apply over the entire roof surface.
2. Apply on roof not covered by self- adhering sheet underlayment. Lap over edges of self-adhering sheet underlayment not less than 3 inches, in shingle fashion to shed water.

C. Slip Sheet: Apply slip sheet over underlayment before installing metal roof panels.

D. Flashings: Install flashings to cover underlayment to comply with requirements specified in Section 076200 “Sheet Metal Flashing and Trim.”

3.4 METAL PANEL INSTALLATION

A. General: Install metal panels according to manufacturer’s written instructions in orientation, sizes, and locations indicated. Install panels perpendicular to supports unless otherwise indicated. Anchor metal panels and other components of the work securely in place, with provisions for thermal and structural movement.

1. Shim or otherwise plumb substrates receiving metal panels.
2. Flash and seal metal panels at perimeter of all openings. Fasten with self-tapping screws. do not begin installation until air or water- resistive barriers and flashings that are concealed by metal panels are installed.
3. Install screw fasteners in predrilled holes.
4. Locate and space fastenings in uniform vertical and horizontal alignment.
5. Install flashing and trim as metal panel work proceeds.
6. Locate panel splices over, but not attached to, structural supports. Stagger panel splices and end laps to avoid a four – panel lap splice condition.

7. Align bottoms of metal panels and fasten with blind rivets, bolts, or self- tapping screws. Fasten flashings and trim around openings and similar elements with self-tapping screws.
8. Provide weather tight escutcheons for pipe—and conduit- penetrating panels.

B. Fasteners:

1. Steel Panels: Use galvanized steel fasteners.

C. Metal Protection: When dissimilar metals contact each other or corrosive substrates, protect against galvanic action.

D. Lap-Seam Metal Panels: Fasten metal panels to supports with fasteners at each lapped joint at location and spacing recommended by manufacturer.

1. Lap ribbed or fluted sheets one full rib. Apply panels and associated items true to line for neat and weather tight enclosure.
2. Provide metal backed washers under heads of exposed fasteners bearing on weather side of metal panels.
3. Locate and space exposed fasteners in uniform vertical and horizontal alignment. Use proper tools to obtain controlled uniform compression for positive seal without rupture of washer.
4. Install screw fasteners with power tools having controlled torque adjusted to compress Washer tightly without damage to washer, screw threads or panels. Install screws in predrilled holes.
5. Flash and seal pans with weather closures at perimeter of all openings.

E. Accessory Installation: install accessories with positive anchorage to building and weather tight Mounting, and provide for thermal expansion. Coordinate installation with flashings and other components.

1. Install components, required for a complete metal panel system including trim, copings, corners, seam covers, flashings, sealants, gaskets, fillers, closure strips and similar items. Provide types indicated by metal wall panel manufacturer; or, if not indicated, provide types recommended by metal panel manufacturer.

F. Flashing and Trim: Comply with performance requirements manufacturer's written installation instructions, and SMACNA's "Architectural Sheet Metal Manual." Provide concealed fasteners where possible and set units true to line and level. Install work with laps, joints and seams that are permanently watertight.

1. Install exposed flashing and trim that is without buckling and tool marks, and that is true to line and levels indicated, with exposed edges folded back to form hems. Install sheet metal flashing and trim to fit substrates and achieve waterproof performance.

2. Expansion Provisions: Provide for thermal expansion of exposed flashing and trim. Space movement joint at a maximum of 10 feet with no joints allowed within 24 inches of corner or intersection. Where lapped expansion provisions cannot be used or would not be sufficiently waterproof, form expansion joints of intermeshing hooked flanges, not less than 1 inch deep, filled with mastic sealant (concealed within joints).

3.5 ERECTION TOLERANCES

A. Installation Tolerances: Shim and align metal panel units within installed tolerance of ¼ inch in 20 feet on slope and location lines and within 1/8- inch offset of adjoining faces and of alignment of matching profiles.

3.6 CLEANING AND PROTECTION

A. Remove temporary protective coverings and strippable films, if any, as metal panels are installed, unless otherwise indicated in manufacturer's written installation instructions, On completion of metal panel installation, clean finished surfaces as recommended by metal panel manufacturer, Maintain in a clean condition during construction.

B. Replace metal panels that have been damaged.

END OF SECTION

BOARD OF BUILDING STANDARDS
ARCHITECTURAL REVIEW BOARD
SIGN REVIEW BOARD

12650 Detroit Avenue ● (216) 529-6630 ● FAX (216) 529-5907 ● www.lakewoodoh.gov

Application Cover Page

Docket No.: 11-148-21

Permit No.: BBS21-000183

Applicant Name: Halley Novak, Horton Harper Architects

Project Address: 14604 Clifton Bl.

Project Name: n/a

Project: Applicant proposes exterior renovation of an existing single-family house.

14604 CLIFTON BLVD. | RENOVATION

10.19.2021 DESIGN PACKAGE



PROJECT DESCRIPTION:

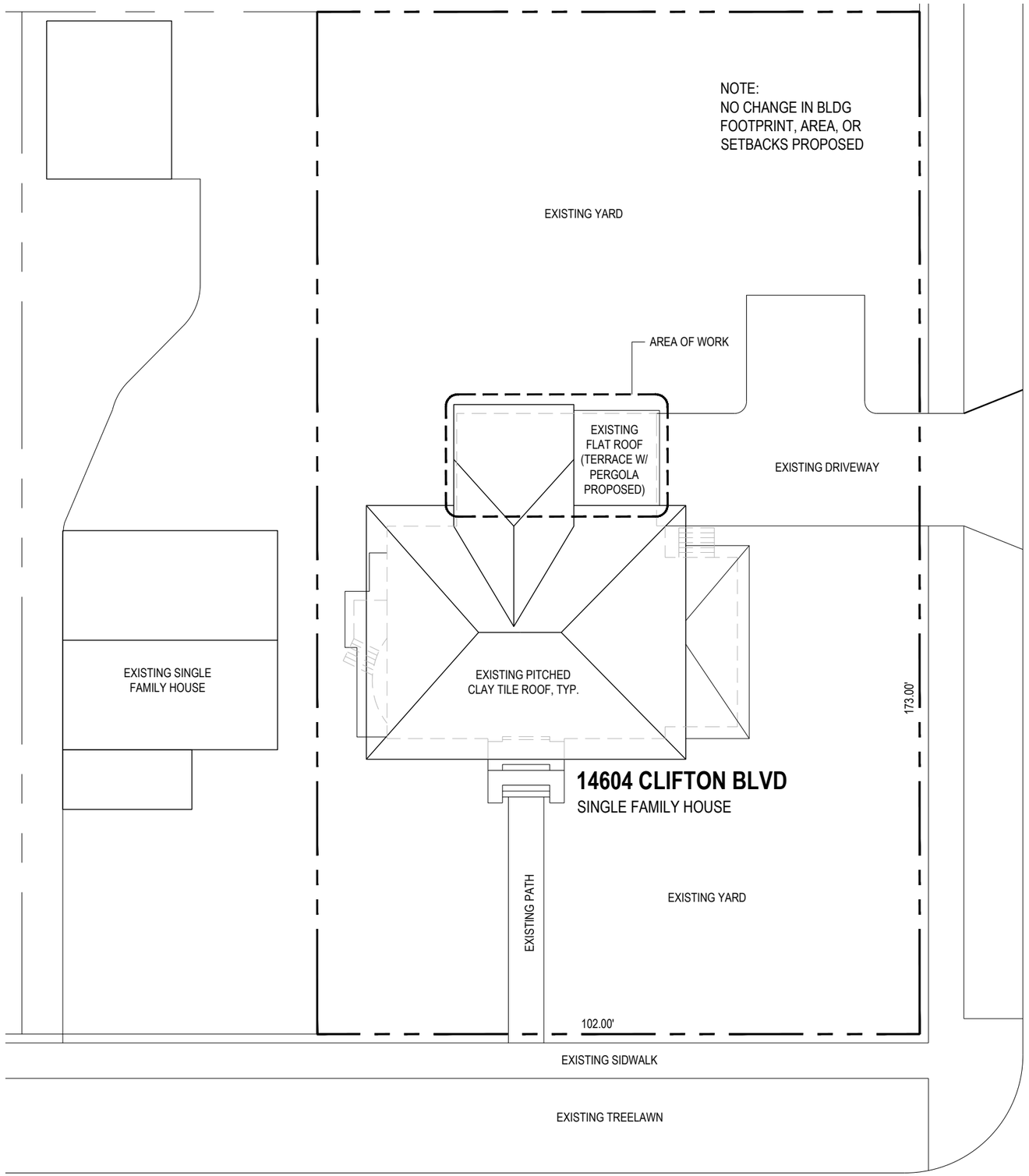
The project consists of the renovation of an existing single-family house located at the corner of Clifton Boulevard and Belle Avenue. This design package focuses on work relating to the demolition and rebuilding of the attached garage as well as the sunroom and porch located above the garage. Our structural engineer has determined that foundation settlement and water infiltration has caused significant structural damage to this portion of the home. Proposed work includes the demolition of the garage exterior walls and 2nd floor framing (along with associated windows and doors) while preserving the existing roof structure and clay tile roof covering. New wood framed walls and new 2nd floor framing will be built to match what is removed. During exploratory demolition, it was discovered that a pergola structure originally covered the 2nd floor space over the eastern half of the garage. The goal is to convert this space back to an open air terrace with a pergola structure above. The new walls will be clad in stucco textured EIFS cladding to match the existing cladding as closely as possible. The entire house will be repainted and have new replacement windows installed.

14604 CLIFTON BLVD. | RENOVATION

Context Aerial & Project Description

N.T.S. North ^

HORTON HARPER
ARCHITECTS



14604 CLIFTON BLVD. | RENOVATION

Site Plan
Scale: 1/16" = 1'-0" N^

HORTON HARPER
ARCHITECTS



14604 CLIFTON BLVD. | RENOVATION

Exterior Rendering

N.T.S.

HORTON HARPER
ARCHITECTS



14604 CLIFTON BLVD. | RENOVATION

Exterior Rendering

N.T.S.

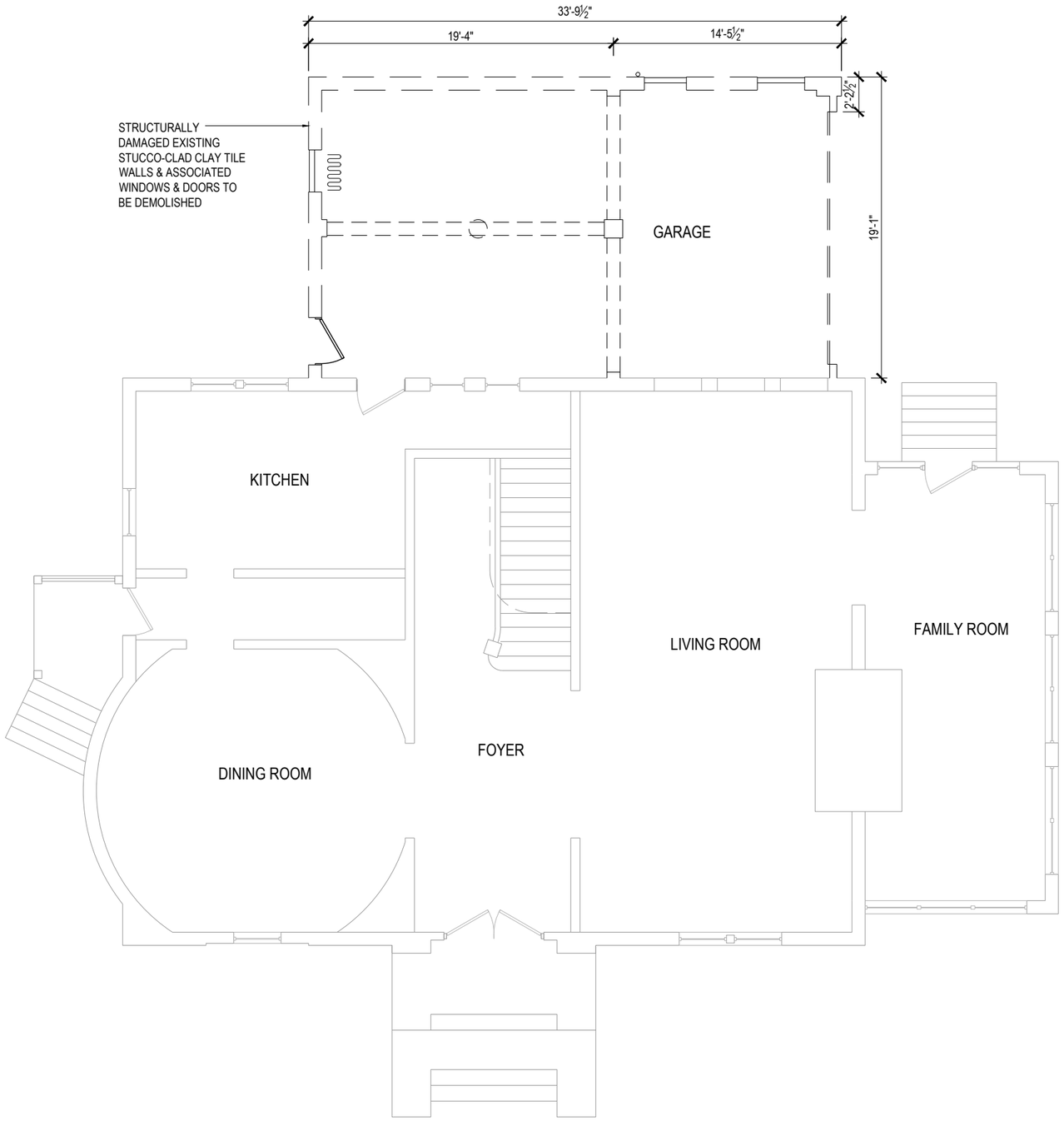
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14604 CLIFTON BLVD. | RENOVATION

Exterior Rendering

N.T.S.

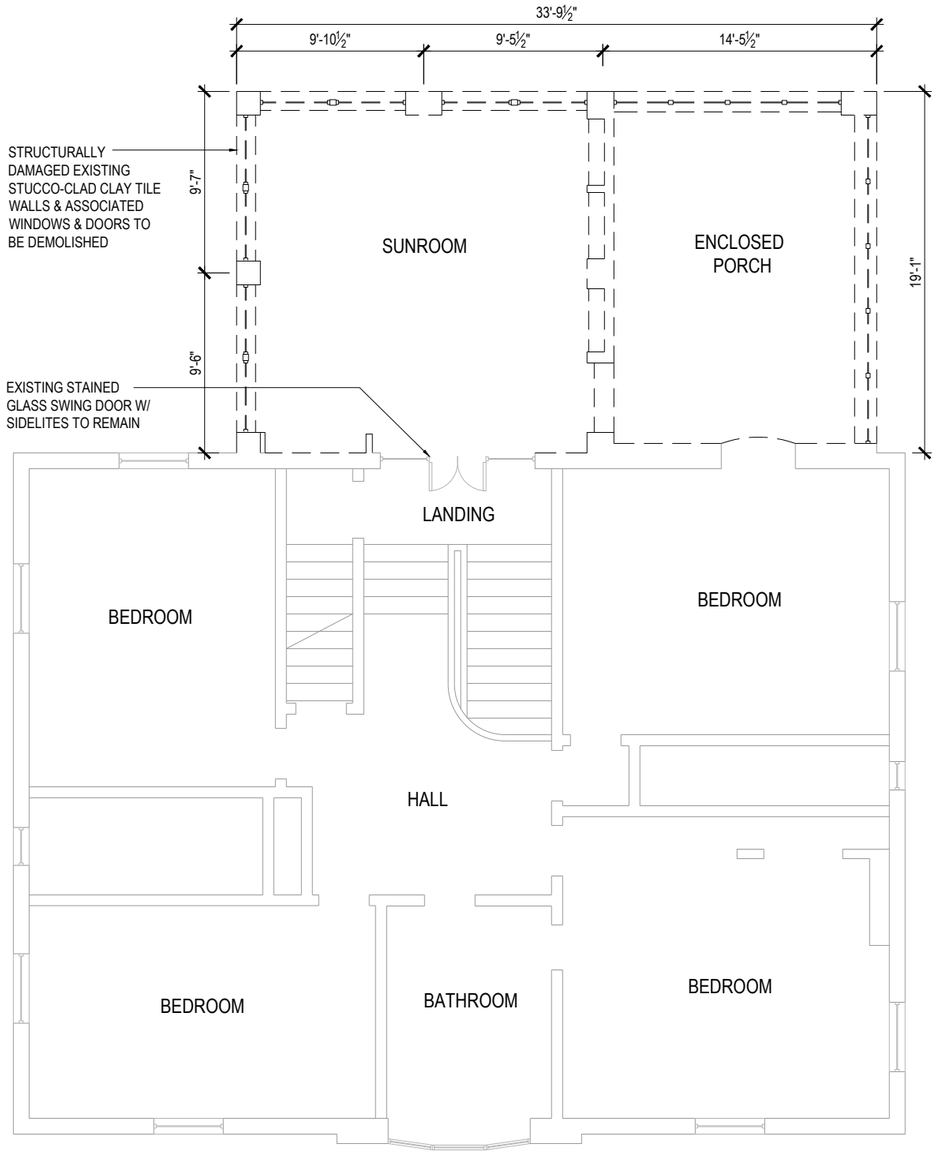
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14604 CLIFTON BLVD. | RENOVATION

First Floor Demolition Plan
Scale: 1/8" = 1'-0" N^

HORTON HARPER ARCHITECTS

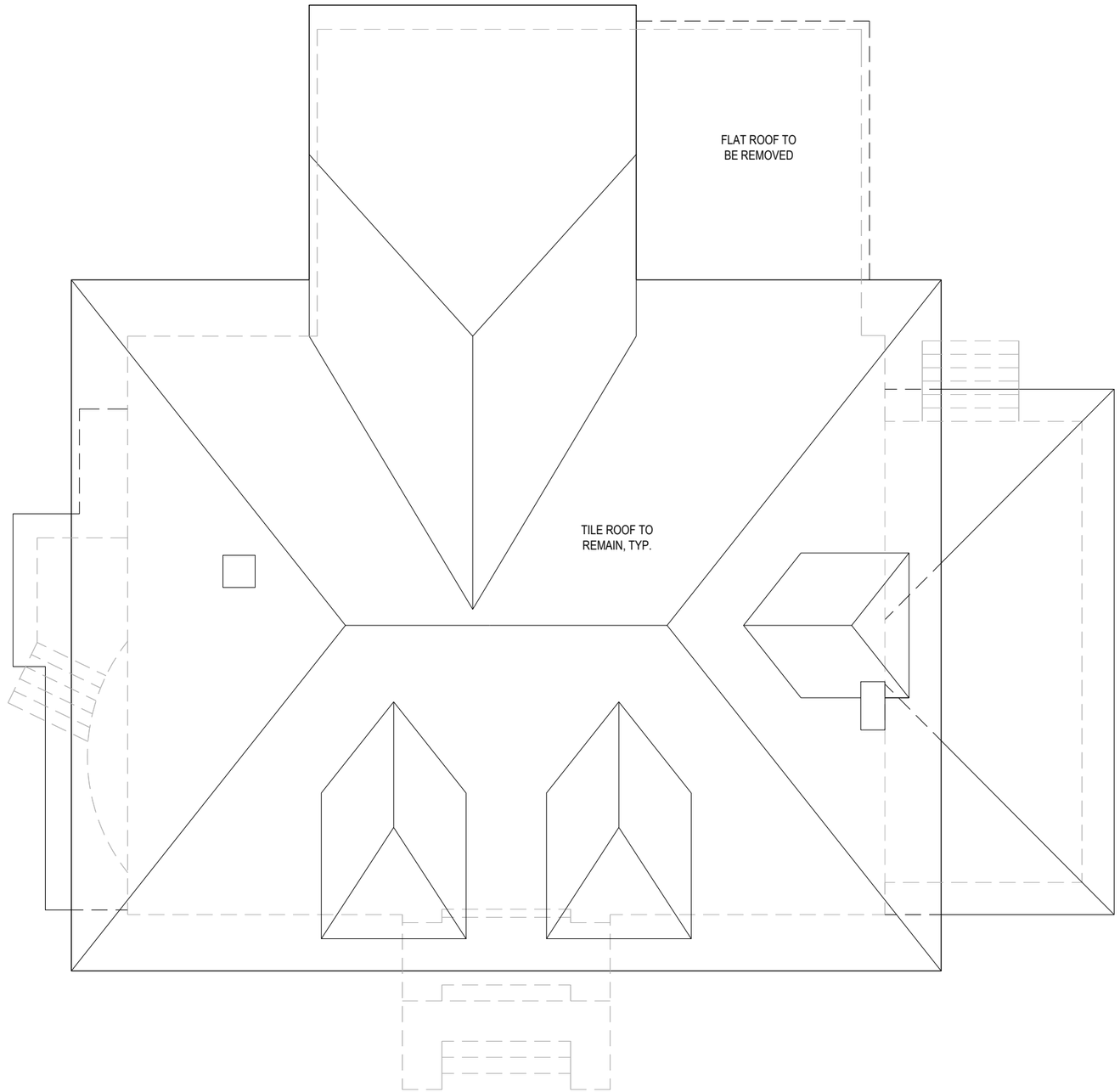


14604 CLIFTON BLVD. | RENOVATION

Second Floor Demolition Plan

Scale: 1/8" = 1'-0" N^

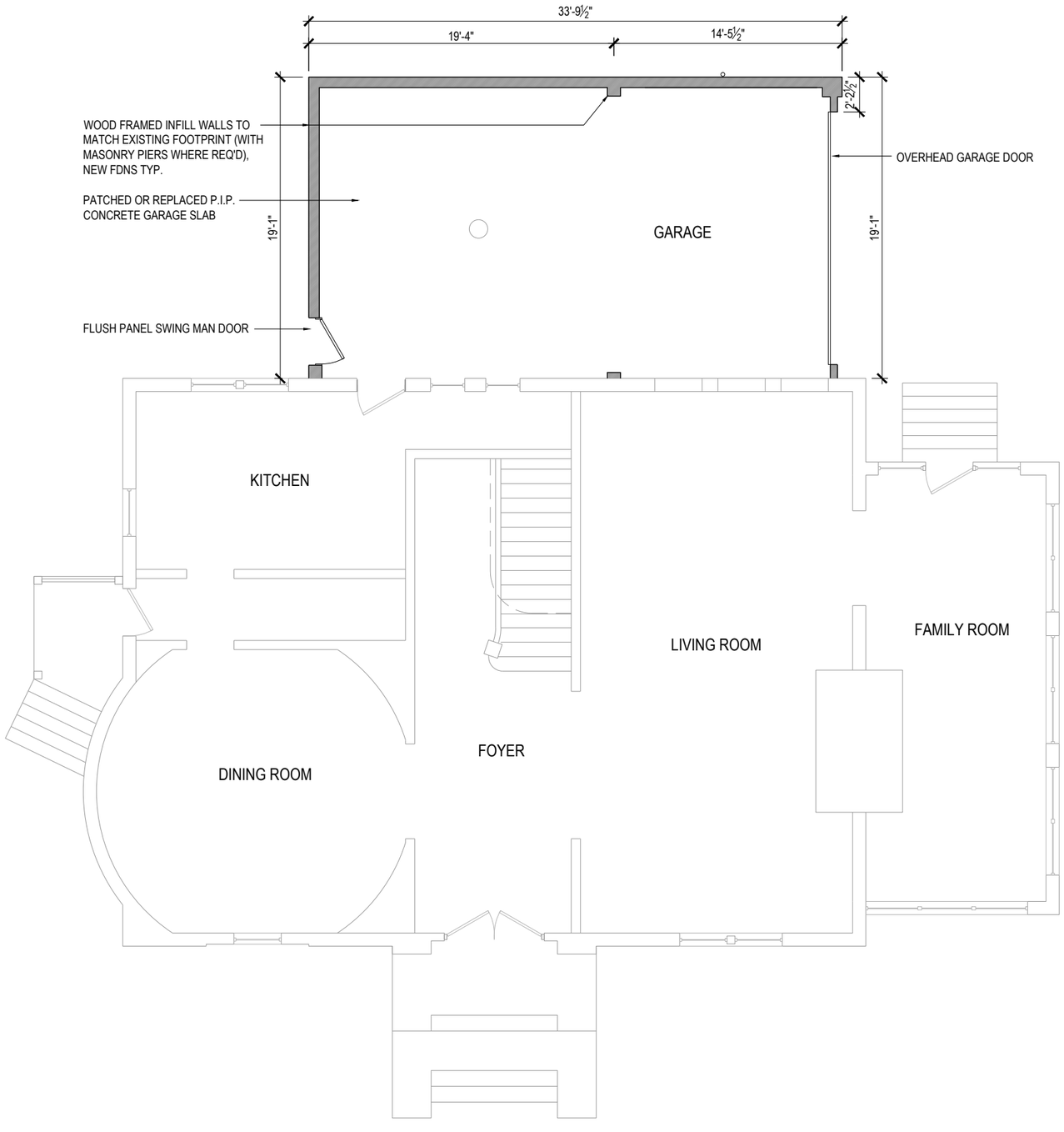
HORTON HARPER ARCHITECTS



14604 CLIFTON BLVD. | RENOVATION

Roof Demolition Plan
Scale: 1/8" = 1'-0" N^

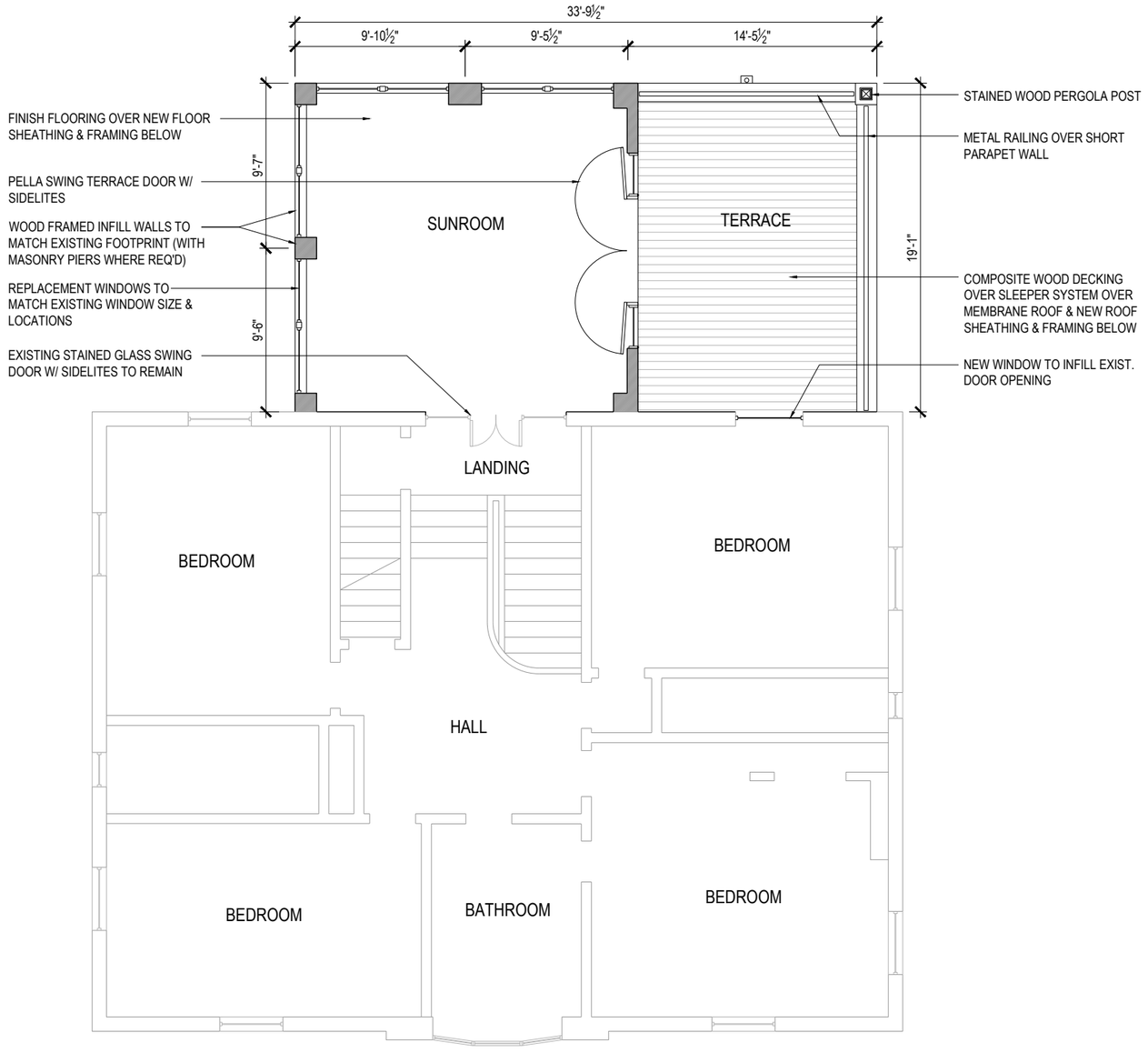
HORTON HARPER
ARCHITECTS



14604 CLIFTON BLVD. | RENOVATION

Proposed First Floor Plan
Scale: 1/8" = 1'-0" N^

HORTON HARPER
ARCHITECTS

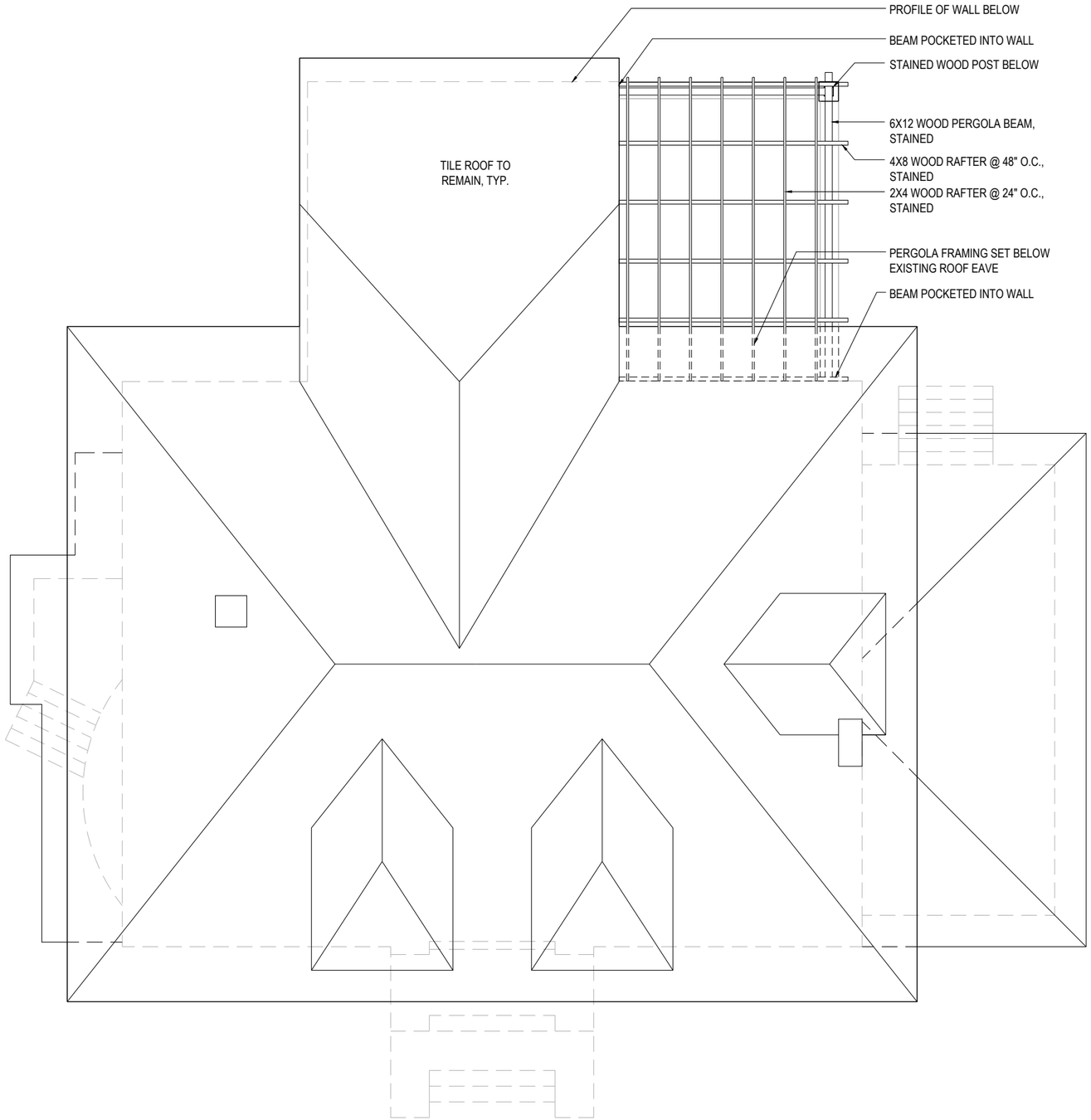


14604 CLIFTON BLVD. | RENOVATION

Second Floor Demolition Plan

Scale: 1/8" = 1'-0" N^

HORTON HARPER ARCHITECTS



14604 CLIFTON BLVD. | RENOVATION

Proposed Roof Plan

Scale: 1/8" = 1'-0" N^

HORTON HARPER ARCHITECTS



14604 CLIFTON BLVD. | RENOVATION

South Demolition Elevation

Scale: 3/16" = 1'-0"

HORTON HARPER
ARCHITECTS

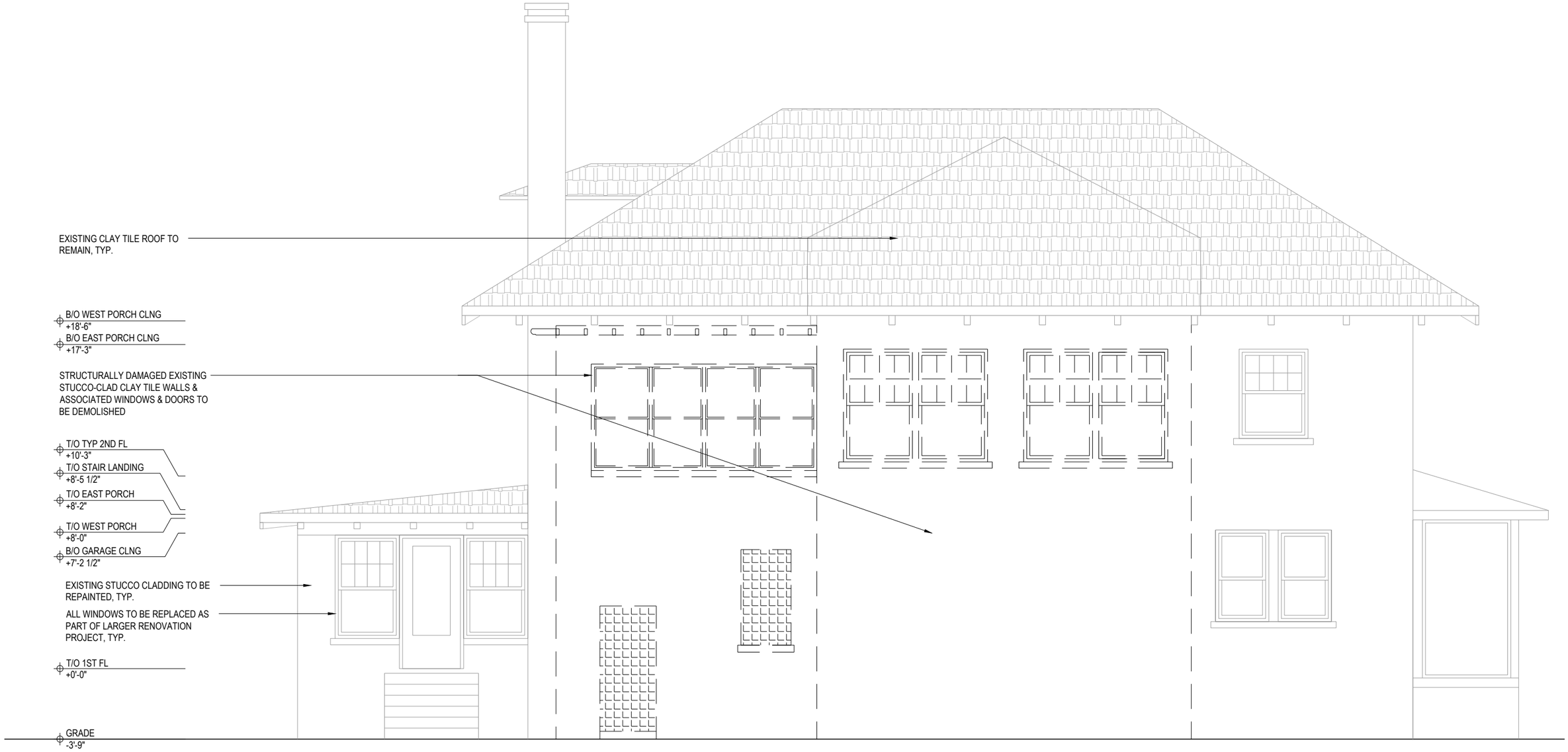


14604 CLIFTON BLVD. | RENOVATION

East Demolition Elevation

Scale: 3/16" = 1'-0"

HORTON HARPER ARCHITECTS



14604 CLIFTON BLVD. | RENOVATION

North Demoliton Elevation

Scale: 3/16" = 1'-0"

HORTON HARPER ARCHITECTS



14604 CLIFTON BLVD. | RENOVATION

West Demolition Elevation

Scale: 3/16" = 1'-0"

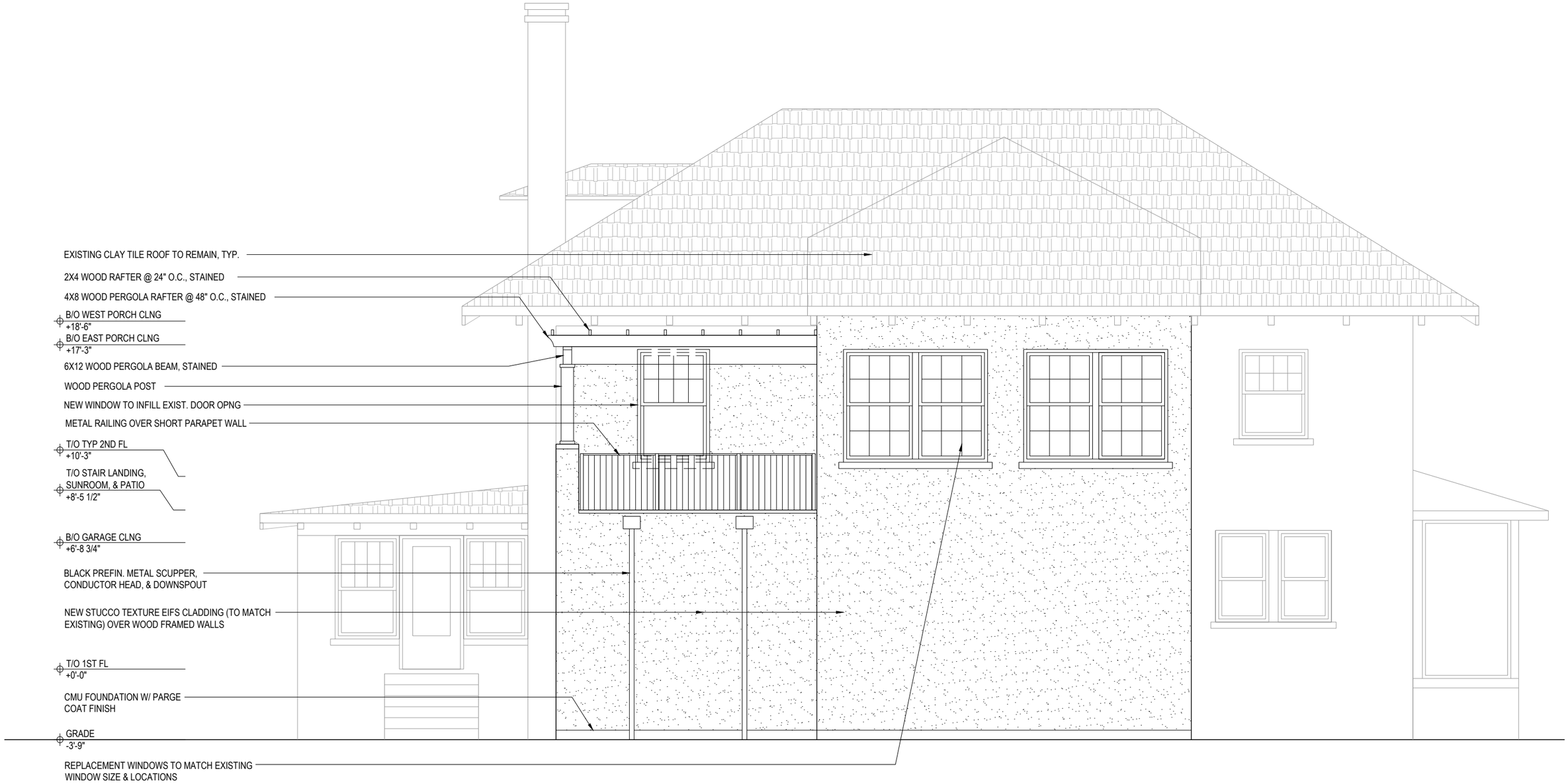
HORTON HARPER ARCHITECTS



14604 CLIFTON BLVD. | RENOVATION

Proposed East Elevation
Scale: 3/16" = 1'-0"

HORTON HARPER
ARCHITECTS



14604 CLIFTON BLVD. | RENOVATION

Proposed North Elevation

Scale: 3/16" = 1'-0"

HORTON HARPER
ARCHITECTS



14604 CLIFTON BLVD. | RENOVATION

Proposed West Elevation
Scale: 3/16" = 1'-0"

HORTON HARPER
ARCHITECTS











top left: south facade
bottom left: east facade
top middle: northeast corner
bottom middle: adjacent homes on Clifton Blvd
right: northwest corner

14604 CLIFTON BLVD. | RENOVATION
Existing Conditions Photos
N.T.S.

HORTON HARPER ARCHITECTS











top left: sunroom
top middle: enclosed porch
top right: garage column
bottom left: cracking @ garage west wall due to settlement
bottom right: cracking @ garage north wall due to settlement

14604 CLIFTON BLVD. | RENOVATION
Existing Conditions Photos
N.T.S.

HORTON HARPER ARCHITECTS



Lakewood's building inspector visited the site and agreed that the area above the garage seems to have once been open with a pergola (see green painted framing)

14604 CLIFTON BLVD. | RENOVATION
Existing Conditions Photos
N.T.S.

HORTON HARPER
ARCHITECTS

Pella® Impervia®

Fiberglass windows and patio doors

Unmatched strength and lasting durability

Achieve commercial-grade strength and lasting durability for your customers' long-term return on investment. Pella Impervia products are made from our proprietary fiberglass material, the strongest material for windows and patio doors, engineered for lasting durability.[1]

Revolutionary hardware

Introducing a revolutionary way to operate casement and awning windows. This patent-pending, Easy-Slide Operator simply slides to open, without the effort of cranking.

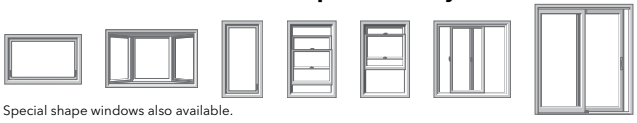


Sleek profiles and more glass

Create bold designs from sleek profiles and more glass with our intentionally-designed products made from our exceptionally strong proprietary fiberglass.

- **100x more impact resistant[2]**
  Pella's fiberglass is 100x more impact-resistant than Andersen's Fibrex windows. You can trust our fiberglass products to be better equipped to stand up to a hammer misfire and other jobsite conditions.
- **Proven performance**
  Engineered for the rigorous performance requirements of a commercial building, Pella Impervia products provide outstanding resistance to water, wind and outside noise.[3]
- **Installation solutions and expertise**
  With nearly 100 years in business, we've got you covered with products and installation solutions for your exact situation.
- **Exceptional mulling capabilities**
  With both interior and exterior accessory grooves on all Pella fiberglass products, you can create larger, unique combinations specifically for your remodel or new construction project. Our extensive factory-mulled options will come preassembled, saving you time on the jobsite.
- **Up-to-date color palette**
  Achieve your design style with up-to-date frame color options, including Black.
- **Tested beyond requirements**
  Tested beyond industry standards and to extremes from -40°F to 180°F, our proprietary fiberglass can handle the most extreme heat and sub-zero cold.[4] Our products are tested beyond industry standards to help ensure less maintenance with fewer callbacks.
- **Durable three-way corner joints**
  For added strength, durability and reliable water performance, Pella Impervia products feature corner locks and sashes injected with sealant and fastened with screws.
- **The confidence of a strong warranty [5]**
  We know your reputation matters, so we have one of the strongest warranties in the business.

Available in these window and patio door styles:



Special shape windows also available.

[1, 2, 3, 4, 5] See back cover for disclosures.

Delivering **unmatched strength,** engineered for **lasting durability**.[1]

Pella's Proprietary Fiberglass vs. Andersen Fibrex [2, 6, 7]
Pella Impervia products won't dent, bend or break as much as the competition.

Won't dent.
100x
more impact-resistant

Won't bend.
10x
stronger

Won't break.
20x
the tensile strength

Product Specifications

Window & Patio Door Styles	Min. Width	Min. Height	Max. Width	Max. Height	Performance Class & Grade	Performance Values: U-Factor	Performance Values: SHGC	Performance Values: STC	Frame/Install
Vent Awning	20"	17-1/2"	59-1/2"	59-1/2"	LC30-LC50	0.18-0.48	0.16-0.55	29-37	Block Frame, Standard Fin, Off-set Fin, Integral Fin
Fixed Awning	13-1/2"	11-1/2"	71-1/2"	79-1/2"	LC45-LC50	0.16-0.49	0.18-0.63	28-36	
Vent Casement	17-1/2"	20"	37-1/2"	79-1/2"	LC45-LC50	0.26-0.45	0.18-0.55	25-32	
Fixed Casement	13-1/2"	11-1/2"	71-1/2"	79-1/2"	LC45-LC50	0.22-0.48	0.20-0.62	27-33	
Vent Double-Hung	17-1/2"	29-1/2"	47-1/2"	77-1/2"	LC30-LC50	0.25-0.49	0.19-0.58	26-29	
Vent Single-Hung	17-1/2"	23-1/2"	47-1/2"	77-1/2"	LC40-LC50	0.24-0.51	0.19-0.59	26-32	Block Frame, Standard Fin, Off-Set Fin, Integral Fin, Flush Frame
Sliding Window (OX, XO)	23-1/2"	11-1/2"	71-1/2"	71-1/2"	LC30-LC50	0.25-0.50	0.19-0.59	26-33	
Sliding Window (XOX)	47-1/2"	17-1/2"	107-1/2"	71-1/2"	LC30-LC50	0.25-0.50	0.19-0.59	26-32	
Fixed Sash and Frame	13-1/2"	13-1/2"	71-1/2"	71-1/2"	CW35-CW50	0.22-0.50	0.20-0.62	27-33	
Fixed Frame Direct Set	11-1/2"	11-1/2"	143-1/2"	143-1/2"	CW50	0.14-0.46	0.18-0.69	28-36	Block Frame, Standard Fin, Off-Set Fin
Sliding Patio Door (One Panel)	27"	71-1/2"	50.-5/8"	119-1/2"	LC30-LC50	0.17-0.48	0.19-0.59	29-33	Block Frame, Standard Fin, Off-Set Fin
Sliding Patio Door (Two Panel)	59-1/4"	71-1/2"	95-1/4"	119-1/2"	LC30-LC50	0.17-0.48	0.19-0.59	29-33	
Sliding Patio Door (Three Panel)	91-7/8"	71-1/2"	145-7/8"	119-1/2"	LC35-LC50	0.17-0.48	0.19-0.59	29-33	
Sliding Patio Door (Four Panel)[8]	117"	71-1/2"	189"	119-1/2"	TBD	TBD	TBD	TBD	

Window sizes available in 1/8" increments
Maximum square footage rules apply. Maximum width and height cannot exceed the maximum square footage. Special shapes available.
Two, three and four-panel sliding patio door configurations that are greater than or equal to 95.5" in height will come knock-down and require field assembly.
Knock-down will be optional for two, three and four panel configurations until 95.5" in height.

Glass & Additional Energy Efficiency Upgrades

InsulShield® Low-E Glass[9]

Pella Impervia products offer energy-efficient options that will meet or exceed ENERGY STAR guidelines in all 50 states.[10]



Advanced Low-E insulating dual- or triple-pane glass with argon



Advanced Comfort Low-E insulating dual-pane glass with argon

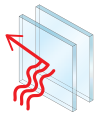


Natural Sun Low-E insulating dual- or triple-pane glass with argon

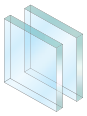


SunDefense™ Low-E insulating dual- or triple-pane glass with argon

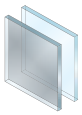
Additional Glass Options



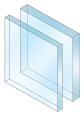
Clear insulating glass



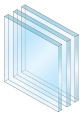
Tempered glass



Laminated (non-impact-resistant)[11], tinted[12] or obscure glass also available on select products



STC (Sound Transmission Class)-improved dual-pane sound control glass[13]



Triple Pane[14]

Foam Insulation Options

Optional foam-insulated frame and sash are available to increase energy efficiency.

Color & Finishes

Frame Colors

Dual-color frames allow your homeowner to choose a different color for the exterior with a White interior. Our long-lasting powder-coat finish resists chipping and fading and meets AAMA 624, which is a highly-rated fiberglass finish that will never need to be repainted or refinished.

Solid-Color:

White | Tan[15] | Morning Sky Gray[15] | Brown | Black

Dual-Color[15]:

White Interior with Tan Exterior | White Interior with Morning Sky Gray Exterior | White Interior with Brown Exterior | White Interior with Black Exterior

Window Hardware

Casement & Awning

The patent-pending Easy-Slide Operator is a revolutionary way to operate casement and awning windows. Simply slide to open, without the effort of cranking. With precision venting technology, the window will open to an exact location. Or select the fold-away crank, that folds neatly away, against the window frame. Neither solution will interfere with roomside window treatments.



Easy-Slide Operator



Fold-Away Crank

Color-Matched Finishes:

White | Tan[15] | Morning Sky Gray[15] | Brown | Matte Black

Additional Finish[16]:

Satin Nickel

Sliding, Single & Double-Hung

Pella's cam-action lock pulls the sashes against the weatherstripping on single-hung, double-hung and sliding windows for a tighter seal.



Cam-Action Lock

Color-Matched Finishes:

White | Tan[15] | Morning Sky Gray[15] | Brown | Matte Black

Additional Finish:

Satin Nickel

[14, 15, 16] See back cover for disclosures.

Patio Door Hardware

Sliding Patio Door

Elevate a home's style with sleek hardware selections.



Sliding Patio Door Handle

Color-Matched Finishes:

White | Tan[15] | Morning Sky Gray[15] | Brown | Matte Black

Additional Finish:

Satin Nickel

Secure Vent Lock

A secure vent lock comes standard on all Pella Impervia sliding doors and provides security in both the closed and venting positions.



Secure Vent Lock

Patio Door Blinds

Blinds-Between-the-Glass

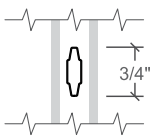
Give your homeowners more privacy by adding blinds-between-the-glass. Located between panes of glass, blinds are protected from dust, dirt and damage.



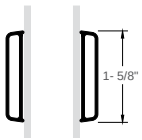
White | Slate Gray | Espresso

Grilles

Grilles are color-matched to window or patio door interior and exterior frame color.



Aluminum Grilles-Between-the-Glass ¾" [17]



Applied Grilles[18]

[1] Pella's proprietary fiberglass material has displayed superior strength over wood, vinyl, aluminum, wood/plastic composites, and other fiberglass materials used by leading national brands in tensile and 3-point bend tests performed in accordance with ASTM D638 and D790 testing standards.

[2] Impact testing performance based on testing 10 samples of each material using ASTM D256, Method C.

[3] Pella® Impervia® windows and patio doors have a performance class of LC or higher. For information on product ratings see www.pella.com/performance.

[4] In testing performed in accordance with ASTM testing standards, Pella's fiberglass has displayed superior performance in strength, ability to withstand extreme heat and cold and resistance to dents and scratches. Special shape windows are made from a fiberglass resin material.

[5] See written limited warranty for details, including exceptions and limitations, at installpella.com/warranties

[6] Tensile testing performance based on testing 7 samples of each material using ASTM D638 test methodology.

[7] 3-point bend testing performance based on testing 10 samples of each material using ASTM D790 test methodology.

[8] Four-panel sliding patio door available early 2022.

[9] Optional high-altitude Low-E insulating glass available with or without argon on select products.

[10] Some Pella products may not meet ENERGY STAR® guidelines in Canada. For more information, contact your local Pella sales representative or go to energystar.gc.ca.

[11] For best performance, the laminated glass may be in the interior or exterior pane of the insulating glass, depending on the product.

[12] Available with Advanced Low-E insulating glass with argon with bronze, gray or green tint on select products.

[13] Sound control glass consists of dissimilar glass thickness (3mm/5mm or 5mm/3mm).

[14] Available on direct set, awning and casement windows and sliding patio doors. Not available with Advanced Comfort Low-E glass.

[15] Availability may be limited. Please contact your local Pella sales rep for details.

[16] Only available for fold-away crank.

[17] Appearance of exterior grille color may vary depending on the Low-E insulating glass selection.

[18] Available on direct set windows only.

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Americas's Favorite Doors®

Clopaydoor.com

Your Clopay Door Imagination System™ Summary

After Image



Before Image



The options included in this application when you select a stock image represent the most common size doors. If you do not see the specific size or design you need, please consult your local dealer or retailer for more information. Size, actual door, and certain designs may vary from screen presentation.

Americas's Favorite Doors®

Clopaydoor.com

Your Completed Doors

1 Garage Door



Bridgeport™ Steel-Premium Series

Size:

16' 0" X 7' 0"

Style:

Narrow Panel

Construction:

3-layer 1 3/8" Intellicore® Insulation R-Value 12.9

Base Color:

Standard White

Top Section:

Long with Rectangular Grilles

Glass:

DSB Strength Clear Glass (Non-Insulated)

Handle:

Standard Handles Included x 1

StepPlate:

Standard Step Plate Included x 1

Hinges:

No Hinge

Pella® Lifestyle Series

Clad/Wood (FRENCH PATIO DOOR & SIDELITES)

#1 performing wood window and patio door for the combination of energy, sound and value.[1]

Triple-pane casement



Dual-pane casement



- **Performance redefined**
  You don't have to compromise on any aspect of performance. Available performance solutions offer an unbeatable combination of energy efficiency, sound control and value.[1]
- **Energy Star® certified[2]**
  Pella products offer energy-efficient options that will meet or exceed ENERGY STAR guidelines in all 50 states. Pella Lifestyle Series products with triple-pane glass have been awarded ENERGY STAR Most Efficient Mark in 2021.
- **Enhanced sound control**
  Our patented, triple-pane design with Advanced Low-E glass allows for mixed glass thickness for enhanced sound dampening resulting in an average 52% noise reduction versus single-pane windows.[3]
- **Popular features and options**
  Low-maintenance aluminum-clad exteriors. Factory prefinish with a choice of several paints and stains, or choose primed or unfinished. Several grille types and patterns and high-transparency screens are also available.
- **Intentional design for improved durability**
  Intentional jamb/sill design helps seal the end grain of the wood and elevates it off the rough opening, reducing the potential for moisture.
- **Durable 3-way corner joint**
  Three-way corner joints are made up of mortise-and-tenon, metal fasteners and commercial adhesive for added strength and durability.
- **Low-maintenance exteriors**
  Aluminum-clad exteriors with EnduraClad® finish resists fading and chalking. It is applied in an overlapping fashion for exceptional protection.
- **Exclusive wood protection**
  Pella's exclusive EnduraGuard® wood protection is applied after the pieces have been cut and milled, but prior to final assembly. It provides advanced protection against the effects of moisture, decay, stains from mold and mildew – as well as termite damage.
- **Best limited lifetime warranty[4]**
  Pella Lifestyle Series products are covered by the best limited lifetime warranty in the industry for wood windows and patio doors.[4]
- **Testing beyond requirements**
  At Pella, our products are tested beyond requirements to help ensure they have long-lasting performance and reduce call-backs for you.

Available in these window and patio door styles:[5]



Special shape windows also available.

[1,2,3,4,5] See back cover for disclosures.

Product Specifications

Window & Patio Door Styles	Min. Width	Min. Height	Max. Width	Max. Height	Performance Class & Grade	Performance Values		
						U-Factor	SHGC	STC
Awning Dual-pane vent	21"[6]	17"	59"	59"	LC30	0.25-0.35	0.19-0.51	25-28
Awning Triple-pane vent	21"	17"	59"	59"	LC25-CW50	0.12-0.19	0.24-0.56	31-37
Casement Dual-pane vent	17"	17"	35"	73"	LC30-LC50	0.25-0.35	0.19-0.51	25-31
Casement Triple-pane vent	17"	17"	35"	73"	R20-CW50	0.20-0.25	0.17-0.46	31-37
Fixed Casement Dual-pane	17"	17"	73"	73"	LC30-LC50	0.23-0.50	0.19-0.66	29-32
Fixed Casement Triple-pane	17"	17"	73"	73"	R20-CW50	0.19-0.24	0.17-0.46	33-37
Double-Hung Dual-pane vent	21"	35"	41.5"	77"	LC30-LC50	0.19-0.66	0.20-0.56	27-31
Hinged Patio Door Dual-pane single door	30"	80"	38"	96"	LC50	0.25-0.29	0.18-0.48	31
Hinged Patio Door Triple-pane single door	26"	80"	96"	96"	LC55	0.22-0.26	0.14-0.38	34-36
Hinged Patio Door Dual-pane double door	60"	80"	75"	96"	LC50	0.25-0.29	0.18-0.48	30-32
Hinged Patio Door Triple-pane double door	50"	80"	75"	96"	LC55	0.22-0.26	0.14-0.38	34-36
Sliding Patio Door Dual-pane single-door fixed (O)	31"	80"	49"	96"	CW50	0.24-0.33	0.18-0.51	27
Sliding Patio Door Triple-pane single-door fixed (O)	31"	80"	49"	96"	CW60	0.21-0.27	0.17-0.45	33-36
Sliding Patio Door Dual-pane double-door vent (OX or XO)	60"	80"	96"	96"	R20-LC50	0.24-0.33	0.18-0.51	29-32
Sliding Patio Door Triple-pane double-door vent (OX or XO)	60"	80"	96"	96"	R25-LC60	0.21-0.27	0.17-0.45	33-36

Window sizes available in 1/4" increments
Special sizes available in triple-pane patio doors. For more information regarding performance, visit pella.com/performance. For more information regarding frame and installation types, visit installpella.com.

Window Hardware

Essential Collection

Select from popular designs and finishes to suit every style.



Fold-away Crank



Cam-Action Lock

Finishes:



Champagne

White



Brown



Matte Black



Satin Nickel



Satin Brass[7]

Patio Door Hardware

Essential Collection

Elevate your style and transform a home with elegant selections.



Hinged Patio Door Handle



Sliding Patio Door Handle

Finishes:



Champagne

White



Brown



Matte Black



Satin Nickel



Satin Brass[7]

[6,7] See back cover for disclosures.

Colors

Prefinished Pine Interior Colors

We can prefinish pine in your choice of several paint and stain colors. Unfinished or primed and ready-to-paint are also available.

White

Bright White

Linen White


Natural Stain[8]


Golden Oak Stain


Early American Stain


Provincial Stain


Dark Mahogany Stain[8]


Red Mahogany Stain[8]


Black Stain

Aluminum-Clad Exterior Colors

Our low-maintenance EnduraClad® exterior finish resists fading and helps protect windows and patio doors for years. Seacoast EnduraClad protective finish for coastal projects with high salt exposure is also available.


Black

White


Brown


Fossil


Iron Ore


Portobello


Putty

Almond

Classic White


Brick Red


Hartford Green

Wolf Gray

Integrated Blinds[9]

Raise blinds up for an unobstructed view or tilt to let in just the right amount of light. Our best integrated and accessible blinds are available manual or motorized with Pella® Insynctive® technology.


White


Poplar White


Bisque


Storm


Golden


Mocha


Black

Integrated Shades[9]

Our best integrated fabric shades feature a white exterior fabric for a uniform look from the street. Integrated and accessible shades are available manual or motorized with Pella Insynctive technology.

Light-Filtering:


White


Silver


Maize

Room-Darkening:


Cotton


Bamboo


Ash

Haven't landed on the final blind or shade color selection? No problem. With our patented triple-pane design, you and your customer can make those decisions later in the schedule. Our triple-pane products come with all of the hardware to add a blind or shade straight from the factory or at a later time in the building or remodeling process.

Added Peace of Mind

Integrated Security Sensors

Integrated wireless security sensors maintain aesthetics, streamline security installation and ensure no warranty loss is caused by post-installation drilling. Sensors can be monitored via the free Pella® Insynctive® App and are compatible with major security panel systems.[10] For more information, go to connectpella.com.

Performance Packages

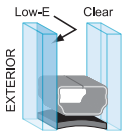
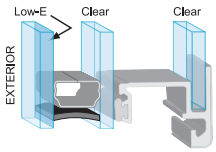
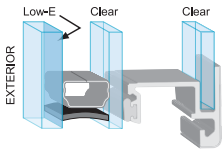
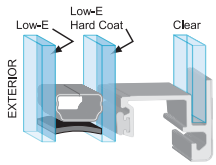
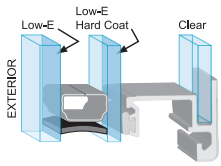
To make things easier, we've created performance packages.

Performance solutions offer an unbeatable combination of energy efficiency, sound control and value.[1] Create room-by-room solutions with the upgraded triple-pane glass design.

All values below are averages compared with single-pane windows.

Most Efficient 2021 ENERGY STAR www.energystar.gov

Pella® Lifestyle Series offers products awarded ENERGY STAR® Most Efficient for 2021.[2]

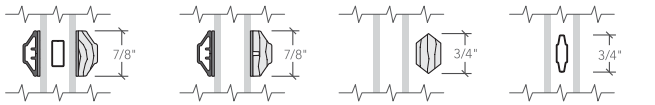
Base	Performance	Sound Control	Energy Efficiency	Ultimate Performance
	71% More Energy Efficient[11] + 34% Noise Reduction[3]	52% Noise Reduction[3]	83% More Energy Efficient[11]	79% More Energy Efficient[11] + 52% Noise Reduction[3]
				
Advanced Low-E	**Advanced Low-E SunDefense Low-E or NaturalSun Lowe-E**	**Advanced Low-E Sound-reduction glazing**	**AdvancedComfort**	**AdvancedComfort Sound-reduction glazing**
Two panes of insulating, energy-efficient glass and our most popular features and options.	A triple-pane glass design for a combination of both improved energy efficiency and sound performance.	Triple-pane glass design featuring mixed glass thicknesses for enhanced sound dampering.	A triple-pane glass design with upgraded AdvancedComfort Low-E glass for enhanced energy efficiency.	A triple-pane glass design featuring mixed glass thicknesses with upgraded AdvancedComfort Low-E glass for enhanced energy efficiency.

Patented triple-pane glass design gives flexibility to add integrated blinds or shades without impacting performance.

Grilles

Choose the look of true divided light, removable roomside grilles or make cleaning easier by selecting grilles-between-the-glass.

Dual-Pane



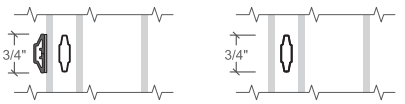
Simulated-Divided-Light with Spacer 7/8"

Simulated-Divided-Light without Spacer 7/8"

Roomside Removable Grilles 3/4"[8,12]

Contoured Aluminum Grilles-Between-the-Glass 3/4"[13]

Triple-Pane



Simulated-Divided-Light with Aluminum Contoured Grilles-Between-the-Glass 3/4"

Contoured Aluminum Grilles-Between-the-Glass 3/4"[13]

The Best Limited Lifetime Warranty in the Industry

We know your reputation matters and you stake your reputation on quality, dependable products. That's why we have the best limited lifetime warranty in the industry for wood windows and patio doors.[4]

[1] Performance solutions require upgrades to triple-pane, AdvancedComfort Low-E and mixed glass thickness. Based on comparing product quotes and published STC/OITC and U-Factor ratings of leading national wood window and patio door brands.

[2] Some Pella products may not meet ENERGY STAR certification in Canada. For more information, contact your local Pella sales representative or go to nrcan.gc.ca/energy/products/categories/fenestration/13739.

[3] Reduction in sound based on OITC ratings of Pella Lifestyle Series windows with respective performance package compared to a single-pane wood or vinyl window with an OITC of 19. Calculated by using the sound transmission loss values in the 80 to 4000 Hz range as measured in accordance with ASTM E-90(09). Actual results may vary.

[4] Based on comparing written limited warranties of leading national wood window and wood patio door brands. See written limited warranty for details, including exceptions and limitations, at pella.com/warranty.

[5] Double-hung windows available in dual-pane only.

[6] Available June 2021.

[7] Available Fall 2021.

[8] Availability may be limited. Contact your local Pella rep for details.

[9] Available with triple-pane products only.

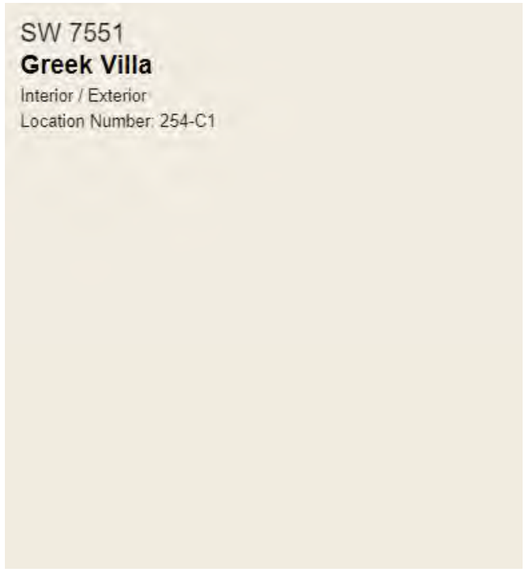
[10] Requires the Insynctive App on a smart device, an Insynctive Bridge and a wireless home router with internet connection.

[11] Window energy efficiency calculated in a computer simulation using RESFEN 6.0 default parameters for a 2000 sq. foot new construction single-story home when Pella Lifestyle Series windows with the respective performance package are compared to a single-pane wood or vinyl window. The energy efficiency and actual savings will vary by location. The average window energy efficiency is based on a national average of 94 modeled cities across the country and weighting based on population. For more details see pella.com/methodology.

[12] Color-matched to your product's interior and exterior color.

[13] Appearance of exterior grille color may vary depending on the Low-E insulating glass selection.

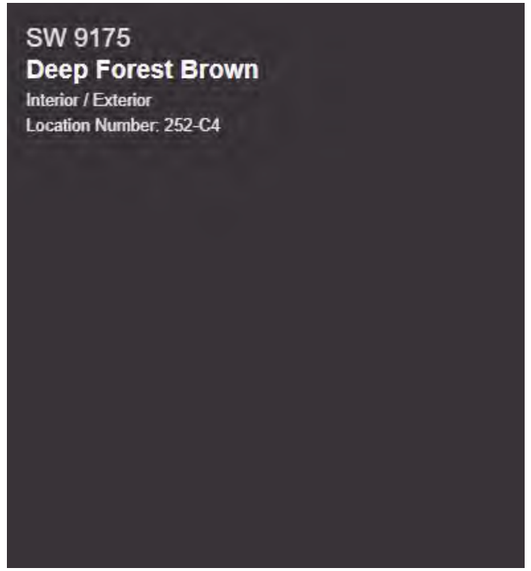
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typical house stucco color



STO stucco textured EIFS



typical trim & pergola color



cedar / pressure treated pergola, stained



new plantings



Clopay Bridgeport Steel recessed panel steel garage door (or equivalent) - painted to match trim



Pella Impervia black fiberglass windows w/ divided lites (see elevations)



prefinished black metal railings w/ vertical pickets

14604 CLIFTON BLVD. | RENOVATION
Material Palette
N.T.S.

HORTON HARPER
ARCHITECTS

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Application Cover Page

Docket No.: 11-149-21

Permit No.: BBS21-000182

Applicant Name: Jeremy Smith, Onward Design Collaborative

Project Address: 15528 Madison Ave.

Project Name: Plum Hill

Project: Applicant proposes storefront renovation – Matthew's Lending Library site.





Plum Hill (placeholder)



Good Kind



2 SF100

DEMOLITION
STOREFRONT ELEVATION
1/4" = 1'-0"







1 SF100

NEW
STOREFRONT ELEVATION
1/4" = 1'-0"

0 1' 3' 6' 12'

Project:
PLUM HILL CREATIVE
Laura Alexandria Marketing

Madison Avenue
Lakewood, OH 44107

LAURA ALEXANDRIA LAM MARKETING

Interior Design
Slate Interiors Studio
Fairview Park, Ohio
t: 216.269.445
www.slate-interiors.com

Seal:

PROGRESS SET

onward
design collaborative

1451 Rosewood Avenue
Lakewood, Ohio 44107
t. 814.490.3668
www.onwarddesigncollaborative.com

Project No: 21-11
Drawn / Checked: JS

Issue: Schematic Design

STOREFRONT RENOVATION

SF100

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Application Cover Page

Docket No.: 11-150-21

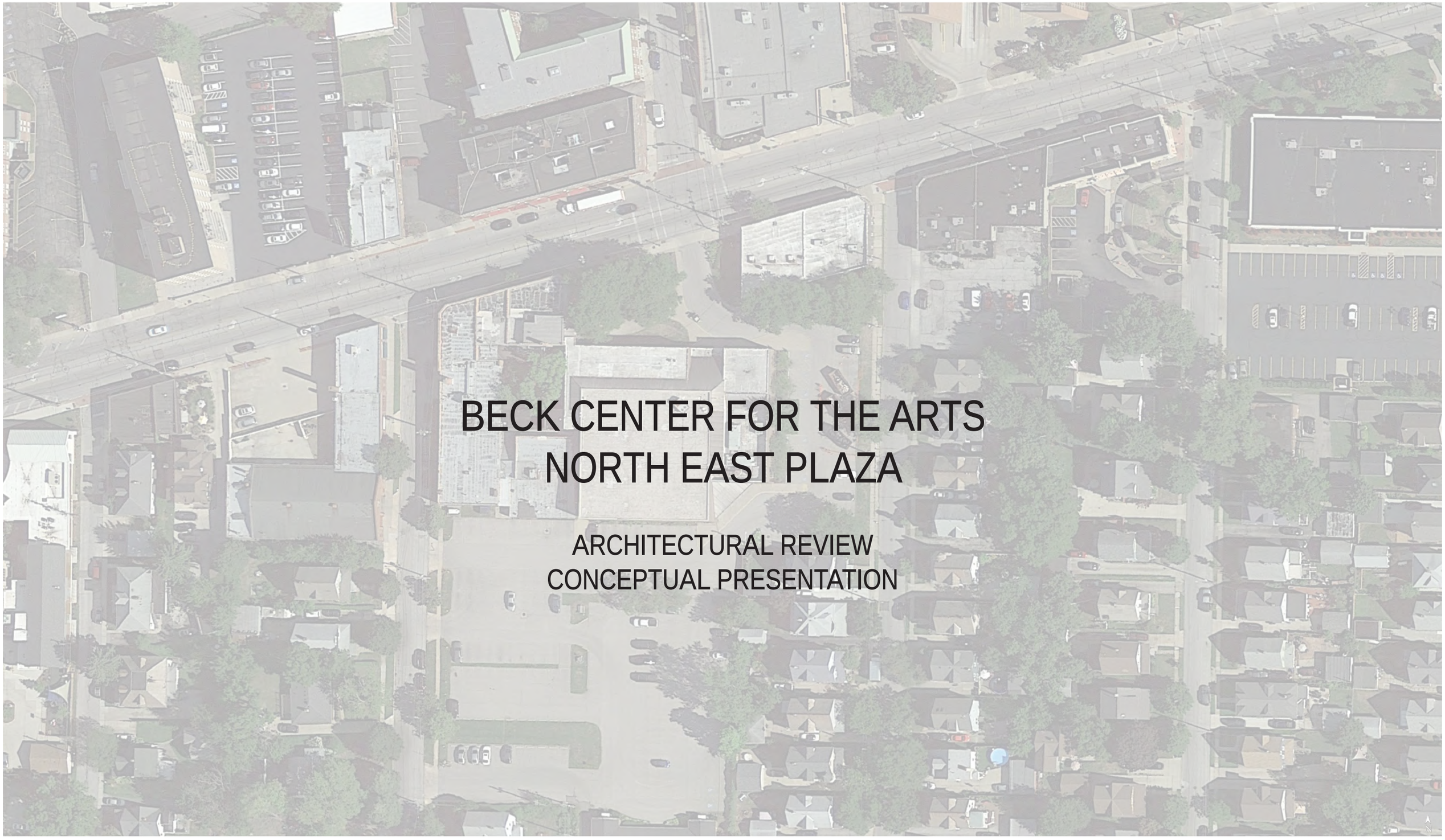
Permit No.: BBS21-000185

Applicant Name: David Craun, Bialosky Cleveland

Project Address: 17801 Detroit Ave.

Project Name: Beck Center for the Arts

Project: Applicant proposes preliminary review of demolition of the front annex building and new plaza and drive



BECK CENTER FOR THE ARTS
NORTH EAST PLAZA

ARCHITECTURAL REVIEW
CONCEPTUAL PRESENTATION

DERU landscape architecture
812 Huron Road E, #411 Cleveland. OH 44115 | 216.466.4355



DERUlandscape architecture
812 Huron Road E, #411 Cleveland. OH 44115 | 216.466.4355

OVERALL SITE PLAN
BECK CENTER FOR THE ARTS | LAKEWOOD, OHIO





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NEW PLAZA DETAIL AND SECTION
BECK CENTER FOR THE ARTS | LAKEWOOD, OHIO



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BIRDSEYE VIEW
BECK CENTER FOR THE ARTS | LAKEWOOD, OHIO



CONCRETE BENCHES



LAWN GATHERING AREA



CURBLESS DROP OFF





ACCOMMODATE LARGE AND SMALL PERFORMANCES

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SLATE CHALK WALL



ELECTRICAL AMENITIES FOR PERFORMANCE



SHOWCASE STUDENT ART



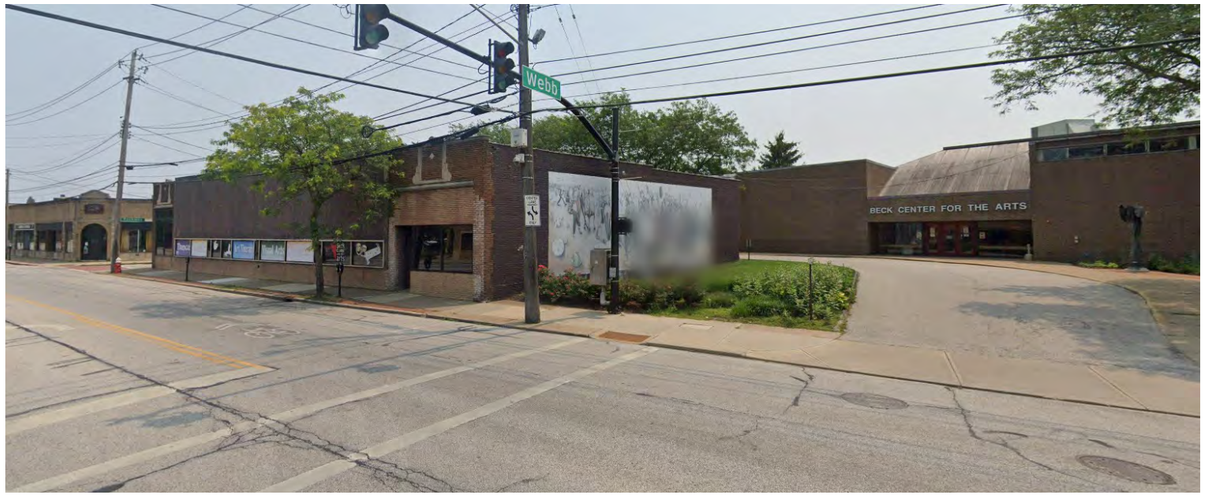


INTERACTIVE COMMUNITY ART

DERUlandscape architecture
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Existing Sidewalk

Existing Conditions

Lakewood Community Vision

Economic Development:
- Creates a more welcoming streetscape on Detroit
- Would impact surrounding properties and make them more desirable to businesses

Community Wellness:
- Added green space for active and passive enjoyment
- Enhanced biodiversity
- Decreased stormwater runoff

Education and Culture:
- Showcases the Beck Center within the community
- Creates space for cultural events
- Demonstrates the Beck Center's longstanding community first approach

Commercial District Design Guidelines

Pedestrian First:
- Provides a more pleasant streetscape experience than the existing building
- Provides enhanced pedestrian connections to and from the Beck Center

Activity at the street:
- Creates visible park space rather than the existing opaque building
- Provides public seating
- Encourages public art

Minimize the Impact of Parking:

Parking is screened with landscape

Parking is located away from street frontage

Compatible with Historic Context:

Opens up corner condition for better views

Seasonal landscape interest

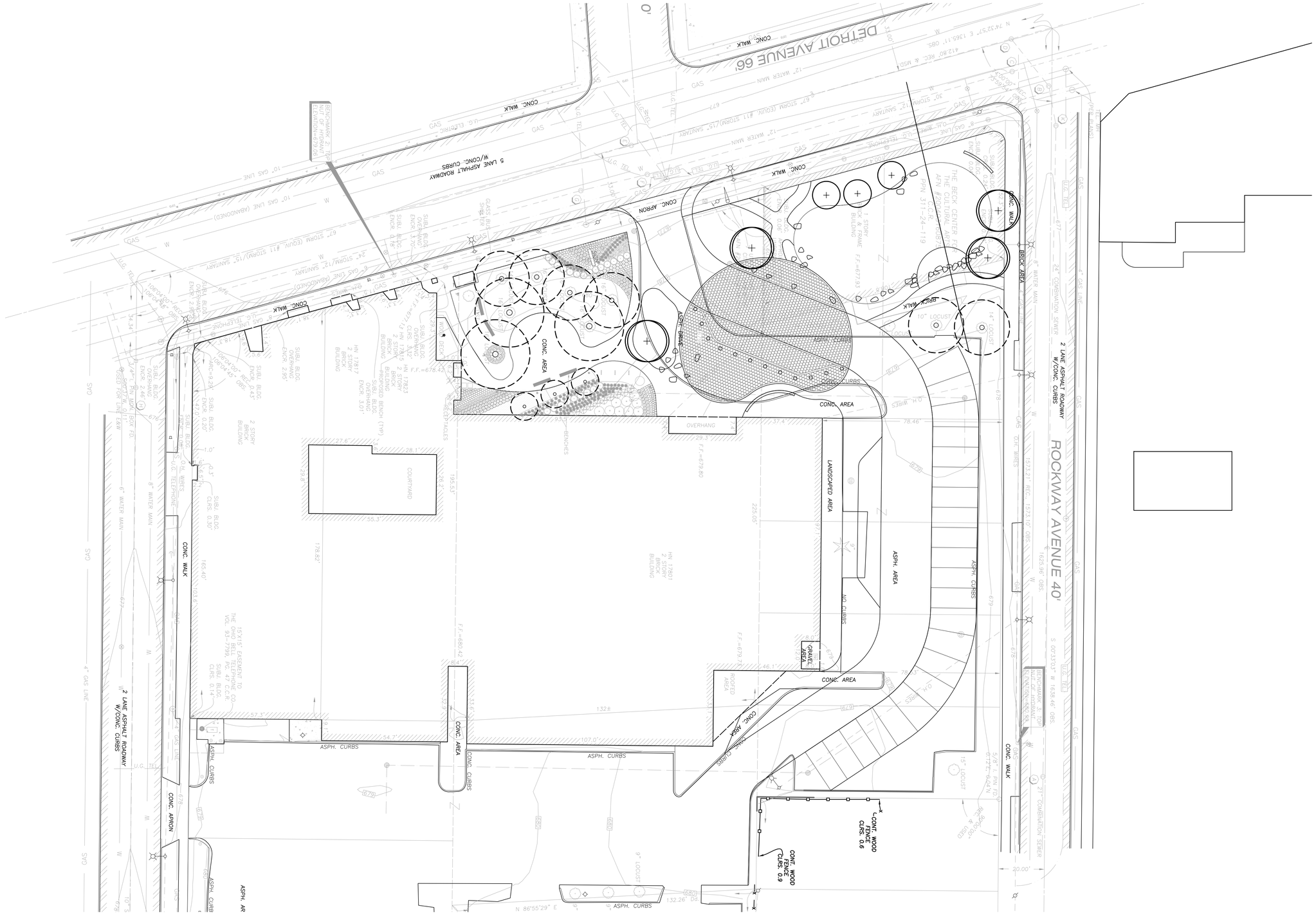
Quality of design:
- Planting and site furnishings appropriate for public spaces

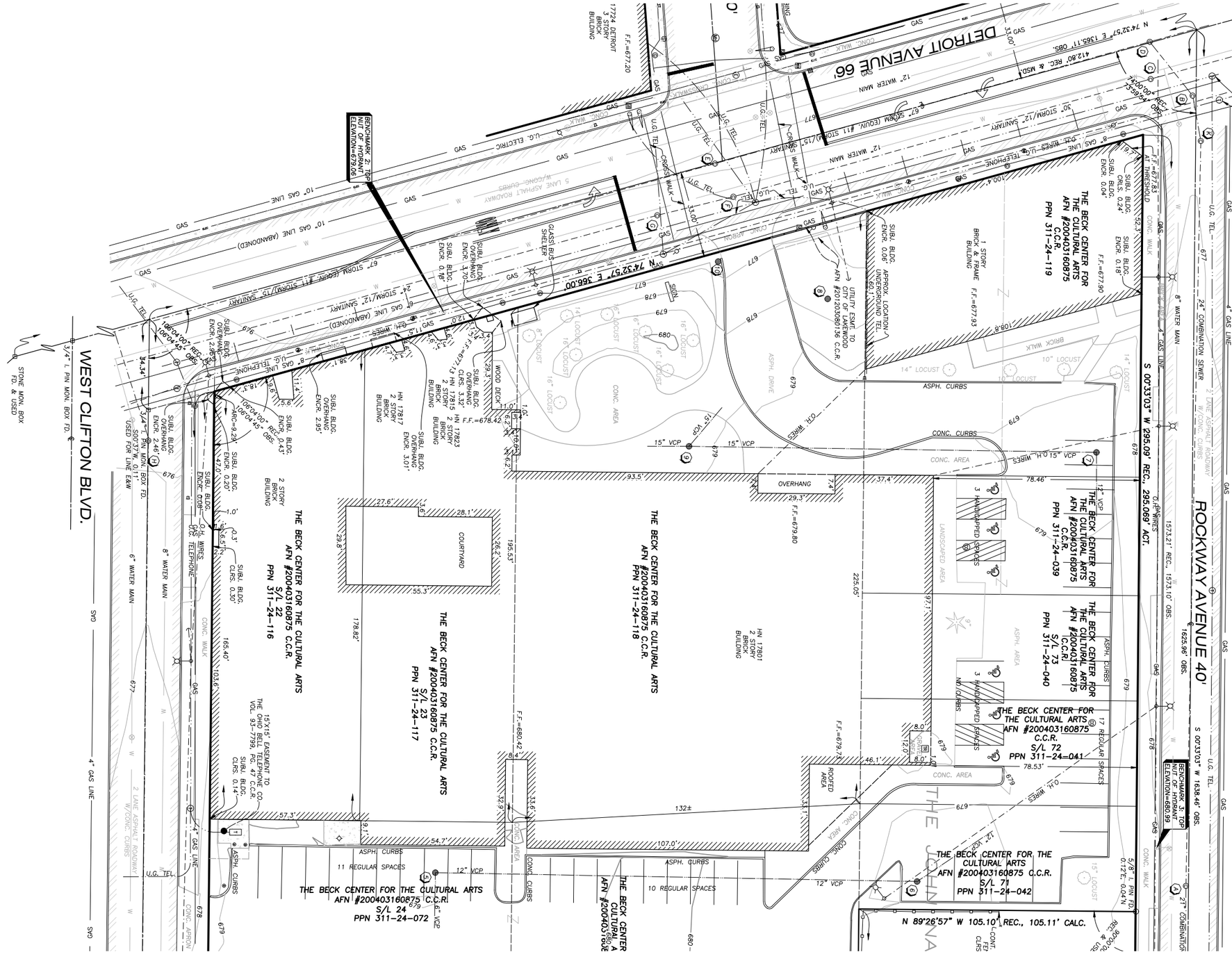
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BECK CENTER FOR THE ARTS | LAKEWOOD, OHIO


DETROIT AVENUE 66'
CONC. WALK
5 LANE ASPHALT ROADWAY W/CONC. CURBS
CONC. APRON
CONC. WALL
BRICK AREA
BRICK WALK
ASPH. CURBS
CONC. AREA
LANDSCAPED AREA
ASPH. AREA
NO CURBS
GRAVEL AREA
ROOFED AREA
CONC. RAMP
OVERHANG
COURTYARD
PROPOSED BENCH (TYP)
BENCHES
2 STORY BRICK BUILDING
1 STORY BRICK & FRAME BUILDING
THE BECK CENTER FOR THE CULTURAL ARTS AFN #200704200119
PPN 311-24-119
CONC. CURBS
CONC. AREA
CONC. WALK
ASPH. CURBS
CONC. AREA
CONC. CURBS
ASPH. CURBS
CONC. RAMP
CONC. AREA
CONC. WALK
ASPH. CURBS
CONC. WALK
CONC. APRON
ASPH. CURBS
ASPH. AREA
CONT. WOOD FENCE CLRS. 0.6
CONT. WOOD FENCE CLRS. 0.9
ASPH. CURBS
ROCKWAY AVENUE 40'
2 LANE ASPHALT ROADWAY W/CONC. CURBS
2 LANE ASPHALT ROADWAY W/CONC. CURBS
BENCHMARK 2: TOP OF FIRE HYDRANT ELEVATION=679.06
BENCHMARK 3: TOP OF FIRE HYDRANT ELEVATION=682.84
N 86°55'29" E 132.26'
S 00°33'01" W 1638.46' OBS.
N 74°33'57" E 1365.11' OBS.
24" STORM (EQUIV. #11 STORM)/12" SANITARY
67" STORM (EQUIV. #11 STORM)/15" SANITARY
10" GAS LINE (ABANDONED)
4" GAS LINE
12" WATER MAIN
8" WATER MAIN
6" WATER MAIN
24" COMBINATION SEWER
21" COMBINATION SEWER
GAS
U.G. TEL.
U.G. ELECTRIC
O.H. WIRES
SANITARY MANHOLE
STORM MANHOLE
CATCH BASIN
GAS VALVE
WATER VALVE
FIRE HYDRANT
LIGHT POLE
TELEPHONE POLE
GUY WIRE
SIGN
BOLLARD
GLASS BRICK
SHELTER
SUBJ. BLDG. OVERHANG ENCR. 3.70'
SUBJ. BLDG. OVERHANG ENCR. 2.95'
SUBJ. BLDG. ENCR. 0.45'
SUBJ. BLDG. ENCR. 0.20'
SUBJ. BLDG. CLRS. 0.30'
SUBJ. BLDG. CLRS. 0.14'
SUBJ. BLDG. CLRS. 3.32'
SUBJ. BLDG. ENCR. 3.01'
SUBJ. BLDG. ENCR. 2.95'
SUBJ. BLDG. ENCR. 0.45'
SUBJ. BLDG. ENCR. 0.20'
SUBJ. BLDG. ENCR. 2.46'
SUBJ. BLDG. ENCR. 0.20'
SUBJ. BLDG. ENCR. 0.20'
SUBJ. BLDG. ENCR. 0.20



Scale: 1"=40'-0"

BIALOSKY CLEVELAND

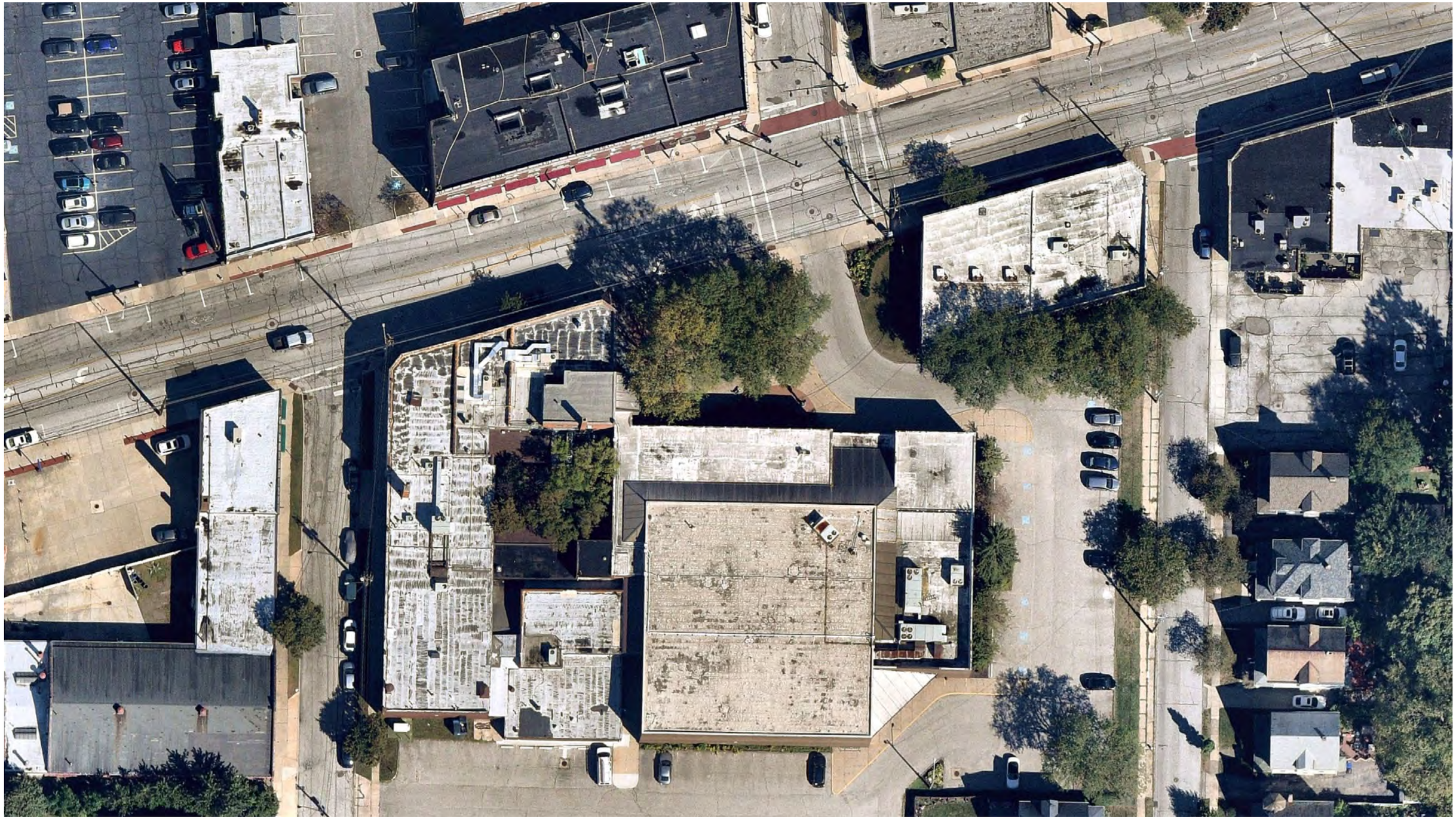
Beck Center for the Arts

North East Plaza - Existing Conditions

Existing Conditions Survey

October 20, 2021

1



BIALOSKY
CLEVELAND

Beck Center for the Arts

North East Plaza - Existing Conditions

Existing Conditions Aerial

October 20, 2021


Rockway
Beck
Center
FOR THE
arts


ENTRANCE


BECK CENTER FOR THE ARTS

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Application Cover Page

Docket No.: 11-151-21

Permit No.: BBS21-000184

Applicant Name: Susan Augustine, Eclectic Cleveland

Project Address: 18101-18119 Detroit Ave.

Project Name: Mural Installation

Project: Applicant proposes installation of a mural on the west side of the building.

ONLY

NO PARKING ANY TIME

ALMIRA TIRE
PARKING ONLY
PRIVATE
TOW AWAY ZONE

96” w x 108” h cut vinyl with laminate heat pressed to brick



Pink outline is cutline only