ADDRESS: 305 N FRONT ST

Proposal: Renovate building; rebuild facades; add deck and pilot house Review Requested: Final Approval Owner: 305 Front Street Land Trust Applicant: Ben Estepani, PACE Architecture + Design History: 1845; Glass block infill added Individual Designation: None District Designation: Old City Historic District, Contributing, 12/12/2003 Staff Contact: Megan Cross Schmitt, megan.schmitt@phila.gov, 215-686-7660

OVERVIEW: The property at 305 N. Front Street is a four-story, three-bay, painted brick, vernacular building constructed ca. 1845, and is considered a contributing structure within the Old City Historic District. The rear (east) elevation faces N. Water Street and has five stories with a garage door at the first floor and three bays of glass-block-infilled windows at stories two through five.

The Architectural Committee reviewed an earlier version of this project. After the January 2022 Architectural Committee meeting, the applicant withdrew an application. The applicant now presents revised plans and a report from a structural engineer assessing the deteriorated conditions of the building.

The applicant proposes to remove and reconstruct the existing brick from the front and rear facades. At the N. Front Street façade, the applicant proposes to clad the first story in cast stone and clad stories two through four in a red brick veneer to match existing. The first story of the N. Water Street façade proposes a new garage door with cast-stone surround, with floors two through five clad in a red brick veneer to match existing.

The applicant now proposes a fenestration pattern at the N. Front Street façade that appears to replicate the locations of the original windows. Casement windows are proposed using a simulated divided lite pattern that attempts to approximate a six-over-six, double-hung window, the original window type. Sills and headers would be limestone.

At the N. Water Street elevation, the fenestration pattern is altered from the historic pattern. At stories two through five, balconies with double-doors are proposed at the middle bay, which are flanked by casement windows like the ones proposed for the front. A new garage door with a cast stone surround is proposed at the ground story.

A roof deck and pilot house are proposed with six-foot setbacks from both the east and west facades. The pilot house is located at the south side of the building and would be clad in siding.

SCOPE OF WORK:

- Remove and reconstruct brick facades at front and rear;
- Construct roof deck and pilot house.

STANDARDS FOR REVIEW:

The Secretary of the Interior's Standards for the Treatment of Historic Properties and Guidelines include:

 Standard 9: New additions, exterior alterations, or related new construction shall not destroy historic materials that characterize the property. The new work shall be differentiated from the old and shall be compatible with the massing, size, scale, and architectural features to protect the historic integrity of the property and its environment.

- The extent of the historic brick that is proposed for demolition does not satisfy Standard 9.
- Any historic storefront material that exists beneath the altered N. Front Street façade should be preserved and restored.
- The proposed reconstruction does not reflect existing physical and archival evidence of the building's historic conditions. Given the availability of such evidence, the proposed reconstruction should more closely reflect the historic facades in terms of fenestration, window type, and façade materials.

STAFF RECOMMENDATION: Denial, pursuant to Standard 9.

MAPS & IMAGES:



Figure 1: 2020 aerial showing 305 N. Front Street. Source: Atlas.



Figure 2: Front (west) facade of 305 N. Front Street. Source: Google.



Figure 3: Rear (east) facade of 305 N. Front Street. Source: Google.



Figure 4: PHC file photo showing 303-307 N. Front Street, ca. 1919. Source: PHC.

305 N Front Street Philadelphia Historical Commission February/March 2022

ABBREVIATION

ABV AP	Above	FNV
AF	Access Panel Acoustical	fbd Fgl
ACT	Acoustical Ceiling Tile	FIN
AD ADD	Area Drain Addendum	FFL FFE
ADDL	Additional	FGD
ADH ADJ	Adhesive Adjacent	FF FA
ADJT	Adjustable	FEC
AFF AGG	Above Finish Floor	FRC FRT
AGG	Aggregate Air Conditioning	FPF
ALT	Alternate	FXD
ALUM AB	Aluminum Anchor Bolt	FLG FLX
ANOD	Anodized	FLR
APPROX ARCH	Approximate Architect (ural)	FD FLUOR
ASPH	Asphalt (ic)	FT
AUTO AVG	Automatic	ftg FDN
AVG	Average	FR
BBD	Base Board	FS
BP BSMT	Base Plate Basement	FBO FOIC
BM	Beam	
BEL BMK	Below Bench Mark	FURN FUR
BET	Between	FUT
BYD BIT	Beyond Bituminous	GA
BLK	Block	GAL
BLKG BLS	Blocking Bluestone	galv gsm
BD	Board	GSTL
BS	Both Sides	GL
bot boc	Bottom Bottom Of Concrete	gfrg Glz
BOF	Bottom Of Footing	GBR
BOS BOW	Bottom Of Steel Bottom Of Wall	GD GRN
BRCG	Bracing	GND
BRKT BRK	Bracket Brick	GWP GT
BC	Brick Course	GPDW
brz Bldg	Bronze Building	HNRL HDW
BLDG	bolidii ig	HDWD
CAB	Cabinet	HDR
CPT CB	Carpet Catch Basin	htr htg
СК	Caulk	HVAC
CLG CEM	Ceiling Cement	HT
CTR	Center	HEX
CL CT	Center Line Ceramic Tile	HP HM
CHBD	Chalkboard	HMDRF
CHAM	Chamfer	HK
C CO	Channel Clean Out	horiz hw
CLR	Clear (ance)	HWH
CLO CW	Closet Cold Water	HR HYD
COL	Column	N 1
COMB COMP	Combination Computer	IN INCL
COMPR	Compress (ed) (ion) (ible)	ID
CONC CMU	Concrete Concrete Masonry Unit	insul Int
COND	Condition (al)	INV
CNDT CONN	Conduit Connect (or) (ion)	JAN
CONST	Construction	JT
CONT CONTR	Continuous Contract (or)	JTF
CJT	Control Joint	KPL
COORD CPR	Coordinate Copper	LBL
CORR	Corrugated	LAD
CNTR CFL	Counter	LAM LAV
CFL CS	Counterflashing Countersunk	LAV
CRS	Course (s)	L LH
CVR CFT	Cover Cubic Foot	lh LNG
CYD	Cubic Yard	ŀłg
CUS	Custom	LW
DPR	Damper	lms Lin
DMPF DL	Dampproofing Dead Load	LTL
DEMO	Demolish (Demolition)	ll LKG
DEPT DEPR	Department Depress (ed)	LVR
DET/DTL	Detail	LP
DIA DIFF	Diameter Diffuser	MACH
DIM	Dimension	MH MFR
DISP DIV	Dispenser Division	MRB
DR	Door	mas mo
DBL DWL	Double Dowel	MATL
DN	Down	MAX MECH
DS D	Down Spout Drain	MED
DWR	Drawer	MEMB
DWG	Drawing	MTL MM
EA	Each	MWK MIN
E	East	MIN
elas Elec	Elastomeric Electric (al)	MISC
EP	Electrical Panel	MOD MLDG
ewc Elev	Electrical Water Cooler Elevation	MR
EL	Elevator	MRT MT
emer enc	Emergency Enclosure	MOV
ENT	Entrance	MUL
EPX EQ	Epoxy Equal	NAT
EQP	Equipment	NEO NOM
est exc	Estimate Excavate (Excavation)	Ν
EXH	Exhaust	NIC
exg Ed	Existing (Existent) Existing Dimension	nts num
EPS	Expanded Polystyrene	OA
EB	Expansion Bolt	OC ORD
EJT/EXP JT EXP	Expansion Joint Expose (d)	OPQ
EXT	Exterior	OPNG OPP
EXTR FAB	Extrusion Fabricate (Fabricator)	OPPF
FB	Face Brick	opph opps
fo fob	Face of Face of Building	OZ
FOC	Face of Concrete	O TO O OD
fom fos	Face of Masonry Face of Stud	OVHD
FOW	Face of Wall	
FCU FAS	Fan Coil Unit Fasten (er)	
FND	Feminine Napkin Disposal	

Feminine Napkin Vendor Fiberboard
Fiberglass Finish
Finish Floor Finish Floor Elevation Finish Grade
Finish (ed) Face Fire Alarm Fire Extinguisher Cabinet
Fire-resistant Coating Fire-retardant Fireproof (ing)
Fixed Flashing
Flexible Floor Floor Drain
Fluorescent Foot (Feet) Footing
Foundation Frame (d) (ing)
Full Size Furnish By Others Furnished By Owner,
Installed By Contractor Furnish (ed) Furred (ing)
Future Gage (Gauge)
Gallon Galvanize (d) Galvanized Sheet Metal
Galvanized Steel Glass Glass Fiber Reinforced Gyp.
Glaze (d) (ing) Grab Bar
Grade (ing) Granite Ground
Grounded Waterproof Outlet Grout Gypsum Drywall
Handrail Hardware Hardwood
Header Heater
Heating Heating, Ventilating & Air Conditioning
Height Hexagonal High Point
Hollow Metal Hollow Metal Door Frame
Hook Horizontal Hot Water
Hot Water Heater Hour Hydrant
Inch Include (d) (ing)
Inside Diameter Insulate (d) (ing)
Interior Invert
Janitor Joint Joint Filler
Kick Plate
Label Ladder Laminate (d)
Lavatory Lead Coated Copper Left
Left Hand Length (Long) Light
Light Lighting Lightweight Limestone
Linoleum Lintel Live Load
Looking Louver
Low Point Machine
Manhole Manufacturer Marble
Masonry Masonry Opening Material
Maximum Mechanical Medium
Membrane Metal (ic)
Millimeter Millwork Minimum
Mirror Miscellaneous Modular
Molding Mop Receptacle
Mortar Mount (ed) Movable
Mullion Natural
Neoprene Nominal North
Not in Contract Not to Scale Number
Overall On Center Overflow Roof Drain
Opaque Opening
Opposite Opposite Face Opposite Hand
Opposite Side Ounce Out to Out
Outside Diameter Overhead

PNL	Panel
PTD	Paper Towel Dispenser
PTR	Paper Towel Receptacle
PAR	Parallel
PBD	Particle Board
PTN	Partition
PVMT	Pavement
PERF	Perforate (d) Perimeter
PERP	Perpendicular
PLAS	Plaster
PLAM	Plastic Laminate
PL	Plate
PNT PLYWD	Paint (ed) Plywood Paint
PT	Point
PSF	Pounds Per Square Foot
PSI	Pounds Per Square Inch
PIP	Poured In Place
PFB	Prefabricated
PFN	Prefinished
PFM	Preformed
PMF	Premolded Filler
PRT	Pressure Treated
PROJ	Project
QT	Quarry Tile
QTR	Quarter
RAD	Radius
REC	Recessed
RECT	Rectangular
REF	Reference
RP	Reference Point
rfl	Reflect (ed)
Refr	Refrigerator
Reg	Reglet
REINF	Reinforcing (ment)
RLF	Relief
RMV	Remove (able)
REQ	Require (d)
res	Resilient
rtn	Return
RA REV	Return Air Revise (d) (ion) Bight Uggd
RH	Right Hand
R	Riser
RD	Roof Drain
RFG	Roofing
RM	Room
ro	Rough Opening
Rnd	Round
rbr	Rubber
RWC	Rain Water Collector
sfgl	Safety Glass
schd	Schedule
scn	Screen
snt	Sealant
SEC	Section
SSK	Service Sink
SB	Setting Bed
SHTH	Sheathing
SHT	Sheet
SHL	Shelf (Shelving)
SHRG	Shoring
SIM	Similar
SLV	Sleeve
SP	Soundproof(ing)
S	South
SPK	Speaker
SPL	Special
spec	Specification (s)
sfp	Spray Fireproofing
sq	Square
SF	Square Foot
STAG	Staggered
sst	Stainless Steel
std	Standard
STL	Steel
STOR	Storage
STRUCT	Structure (al)
SUR	Surface
SUSP	Suspended
SW	Switch
SYM	Symmetrical
SYN	Synthetic
SYS	System
TKBD	Tackboard
TEL	Telephone
TEMP	Temperature Thermostat
thrshld	Threshold
thk	Thick (ness)
TLT	Toilet
TPTN	Toilet Partition
T&G	Tongue And Groove
TO	Top Of
TOC	Top Of Concrete
TOF	Top Of Footing
TOS	Top Of Steel
TOW	Top Of Wall
TD	Towel Dispenser
TRANS	Transparent
TR	Tread
TYP	Typical
UCT	Undercut
UL	Underwriter's Laboratory
UNF	Unfinished
UON	Unless Otherwise Noted
URTH	Urethane
U/S	Underside
UTIL	Utility
VB	Vapor Barrier
VNR	Veneer
VENT	Ventilating
VIF	Verify In Field
VERT	Vertical
VCB	Vinyl Cove Base
VCT	Vinyl Composite Tile
VSB	Vinyl Straight Base
VOL	Volume
1	
WSCT	Wainscot
WC	Water Closet
WR	Wter Repellent
WC	Water Closet
WR	Wter Repellent
WS	Water Stop
WC	Water Closet
WR	Wter Repellent
WC	Water Closet
WR	Wter Repellent
WS	Water Stop
WPF	Waterproof (ing)
WT	Weight
WWF	Welded Wire Fabric
W	West
WF	Wide Flange
WC WR WS WT WWF W WF WDW WM	Water Closet Wter Repellent Water Stop Waterproof (ing) Weight Welded Wire Fabric West Wide Flange Window Wire Mesh
WC WR WS WT WWF WF WDW WM W/ W/O	Water Closet Wter Repellent Water Stop Waterproof (ing) Weight Welded Wire Fabric West Wide Flange Window Wire Mesh With Without
WC WR WS WT WWF WF WDW WM W/	Water Closet Wter Repellent Water Stop Waterproof (ing) Weight Welded Wire Fabric West Wide Flange Window Wire Mesh With

Page Pair

PR PNL PTD

YD

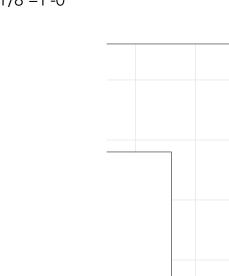
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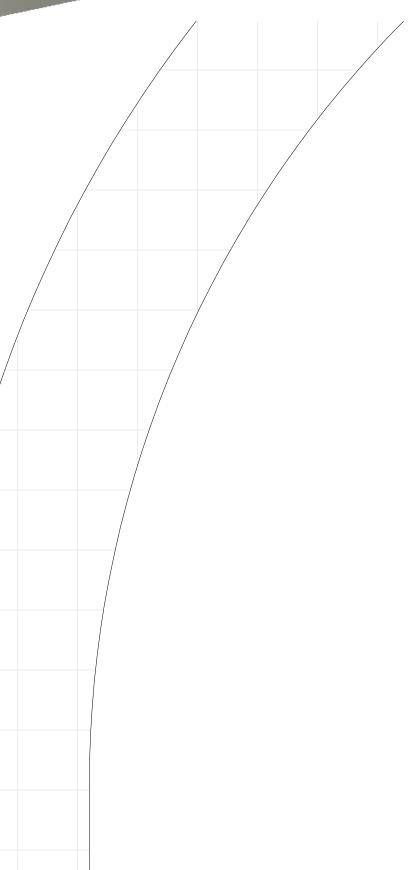
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PROPOSED SITE PLAN

SCALE: 1/8''=1'-0'' A-000 /







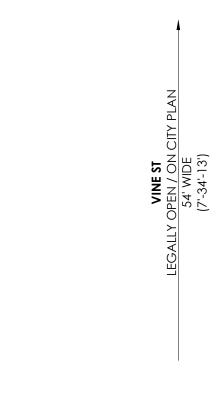


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A-302	South
A-303	NORTH

S-100

RSHEET & SITE PLANS 'HOTOS DLITION FLOOR PLANS OSED FLOOR PLANS EXTERIOR ELEVATIONS EXTERIOR ELEVATIONS

H EXTERIOR ELEVATIONS NORTH EXTERIOR ELEVATIONS STRUCTURAL REPORT

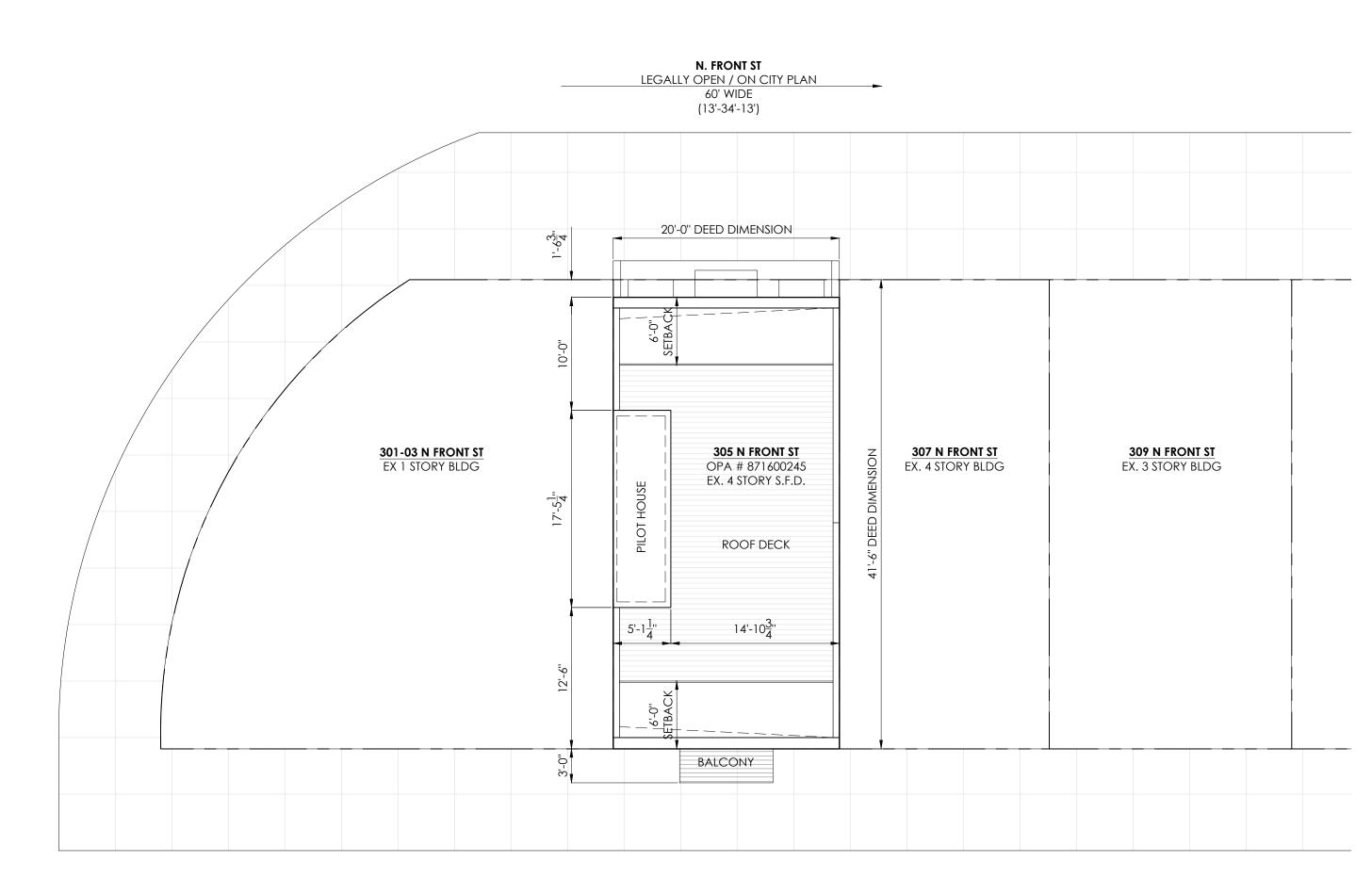
PROJECT SCOPE

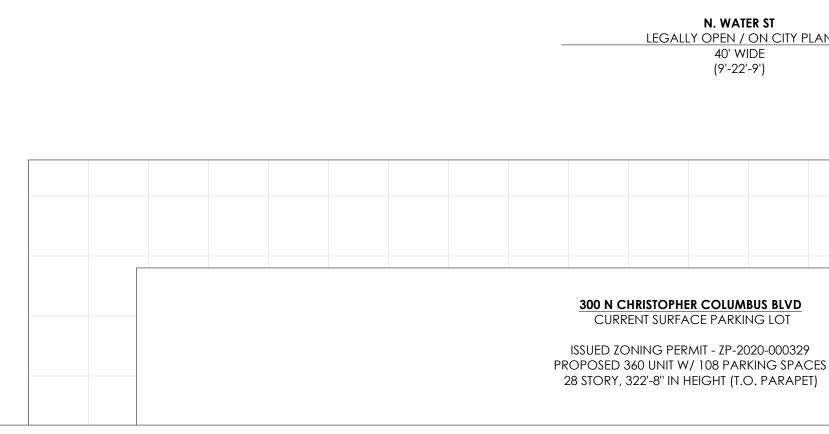
ZONING CRITERIA

DIMENSIONAL STAND

MIN LOT WIDTH MIN STREET FRONTAG MIN DISTRICT AREA MIN LOT AREA MAX OCCUPIED ARE MIN FRONT SETBACK MIN SIDE YARD MIN REAR YARD DEPTI MIN REAR YARD AREA MAX BUILDING HEIGH MAX FLOOR AREA

ZONING OVERLAY DISTRICTS /CDO CENTRAL DELAWARE RIVERFRONT OVERLAY DISTRICT





FRONT ST S.F.D.

305 N. FRONT ST PHILADELPHIA, PA 19106

RENOVATION TO AN EXISTING SINGLE FAMILY DWELLING. EXISTING FRONT AND REAR FACADE TO BE REMOVED AND REBUILT. NEW REAR BALCONIES AT FIRST - FOURTH FLOORS AND NEW ROOF DECK ACCESSED VIA PILOT HOUSE. EXISTING REAR GARAGE ACCESSED VIA WATER ST TO REMAIN.

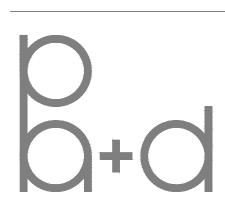
ZONING BASE DISTRICT CLASSIFICATION: RM-1

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ЭE	16' N/A N/A	20' N/A N/A	NO CHANGE NO CHANGE NO CHANGE
Ā	1,440 SF [1] INTERMEDIATE: 75% [2]	830 SF 96.3	NO CHANGE
TH A HT	[5][6] 5' 9' [9] 1 44 SF [9] 38' [5] NO LIMIT	1-6 ⅔'' NOT USED 0' 0 SF 385% 385%	NO CHANGE NO CHANGE NO CHANGE NO CHANGE NO CHANGE
	38' [5]	385%	NO CH

/CTR CENTER CITY OVERLAY DISTRICT - VINE STREET AREA

/CTR CENTER CITY OVERLAY DISTRICT - CENTER CITY RESIDENTIAL DISTRICT CONTROL AREA NON-ACCESSORY SIGNS - REGULATIONS APPLICABLE TO THE I-95 ACQUISITION CORRIDOR /CTR CENTER CITY OVERLAY DISTRICT - CENTER CITY COMMERCIAL DISTRICT CONTROL AREA

N. WATER ST LEGALLY OPEN / ON CITY PLAN 40' WIDE (9'-22'-9')

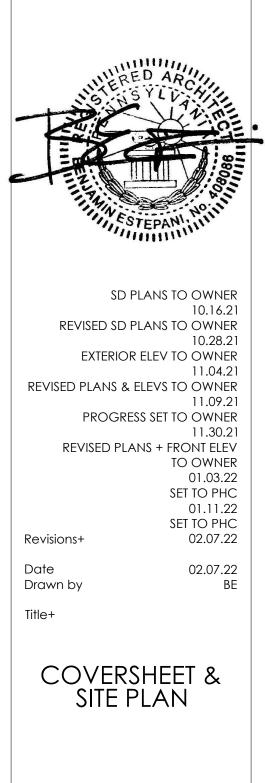


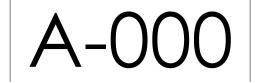
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Project+ Front St Renovation 305 N Front St Philadelphia, PA 19106

Structural Engineer+ Leake Engineering LLC 101 W Eagle Rd, #189 Havertown, PA 19083 Ph: 215.645.4437

FOR PHC REVIEW





305 N FRONT





STONE LINTEL FLUSH W/ BRICK

BRICK CORNICE

GLASS BLOCK INFILL

STAR BOLT REINFORCING AT

2ND, 3RD, 4TH, & ROOF JOISTS

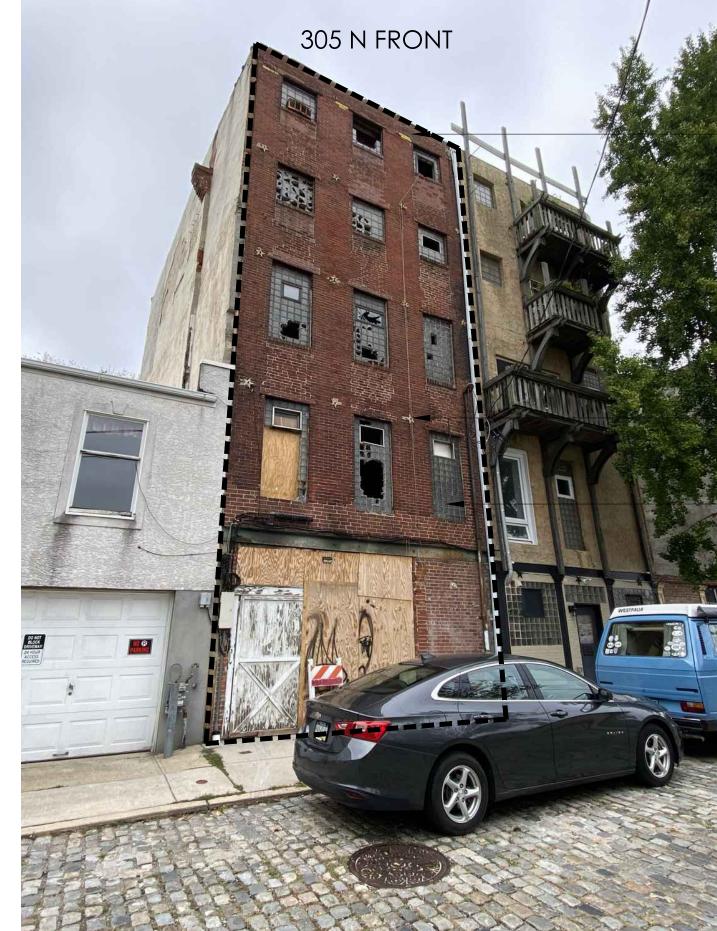
6 OVER 6 DOUBLE HUNG WINDOWS

STONE SILL PROUD OF BRICK

SILL FLUSH W/ FLOOR

FRONT ELEVATION (1919)





REAR ELEVATION (2021)

REAR ELEVATION (1953)





- STAR BOLT REINFORCING AT 2ND, 3RD, 4TH, ROOF JOISTS

- GLASS BLOCK & BRICK INFILL AT EXISTING MASONRY OPENINGS

- STAR BOLT REINFORCING AT FLOORS 3RD, 4TH, ROOF JOISTS

- GLASS BLOCK & BRICK INFILL AT EXISTING MASONRY OPENINGS

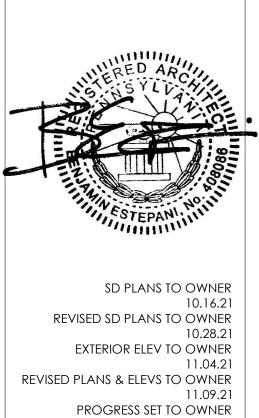
EXISTING SILLS AND LINTELS REMOVED

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FOR PHC REVIEW



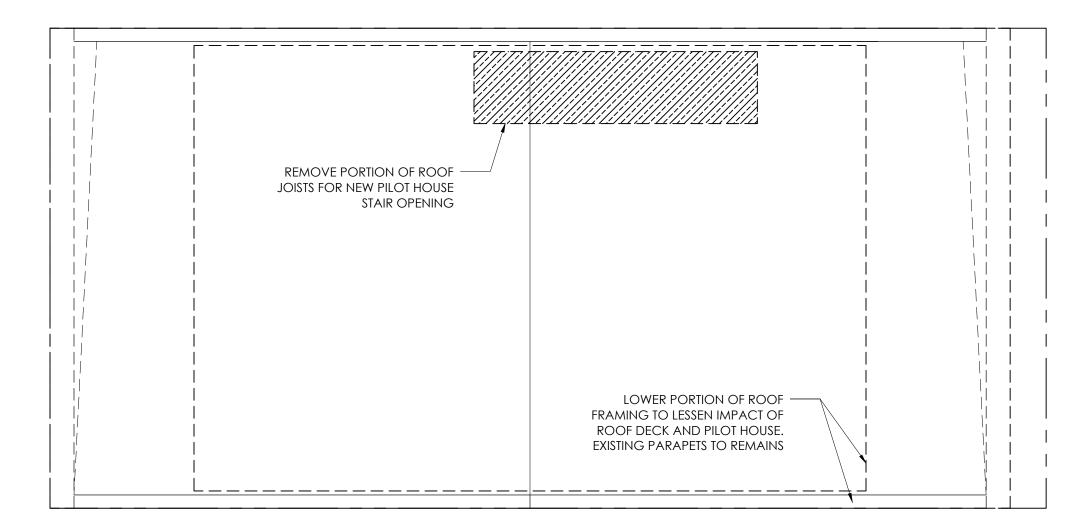
10.28.21 EXTERIOR ELEV TO OWNER 11.04.21 REVISED PLANS & ELEVS TO OWNER 11.09.21 PROGRESS SET TO OWNER 11.30.21 REVISED PLANS + FRONT ELEV TO OWNER 01.03.22 SET TO PHC 01.11.22 SET TO PHC Revisions+ 02.07.22 02.07.22 BE Date

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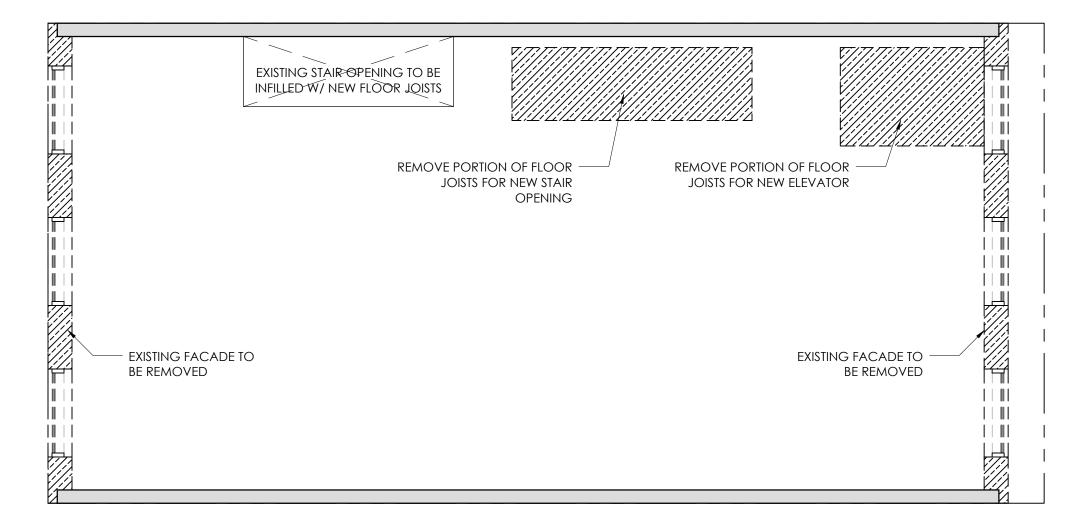
Title+

SITE PHOTOS

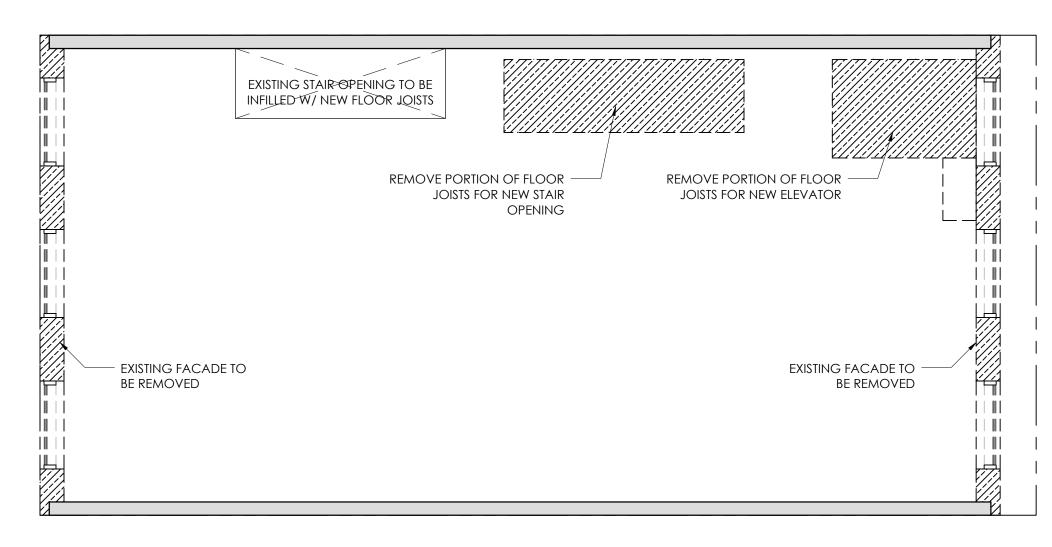
A-001

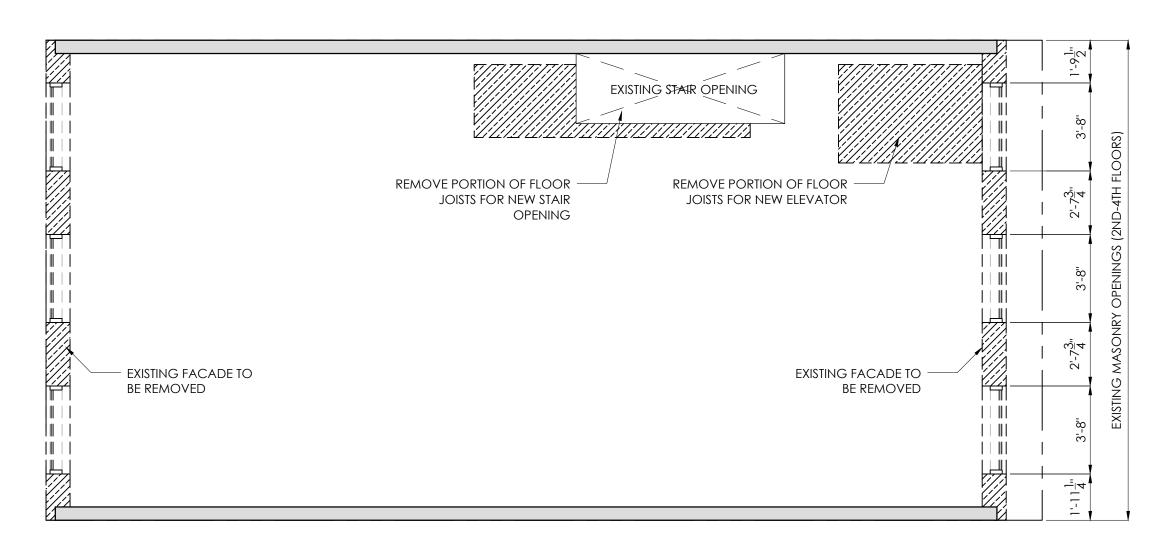


5 EXISTING ROOF PLAN A-100 SCALE: 1/4"=1'-0"

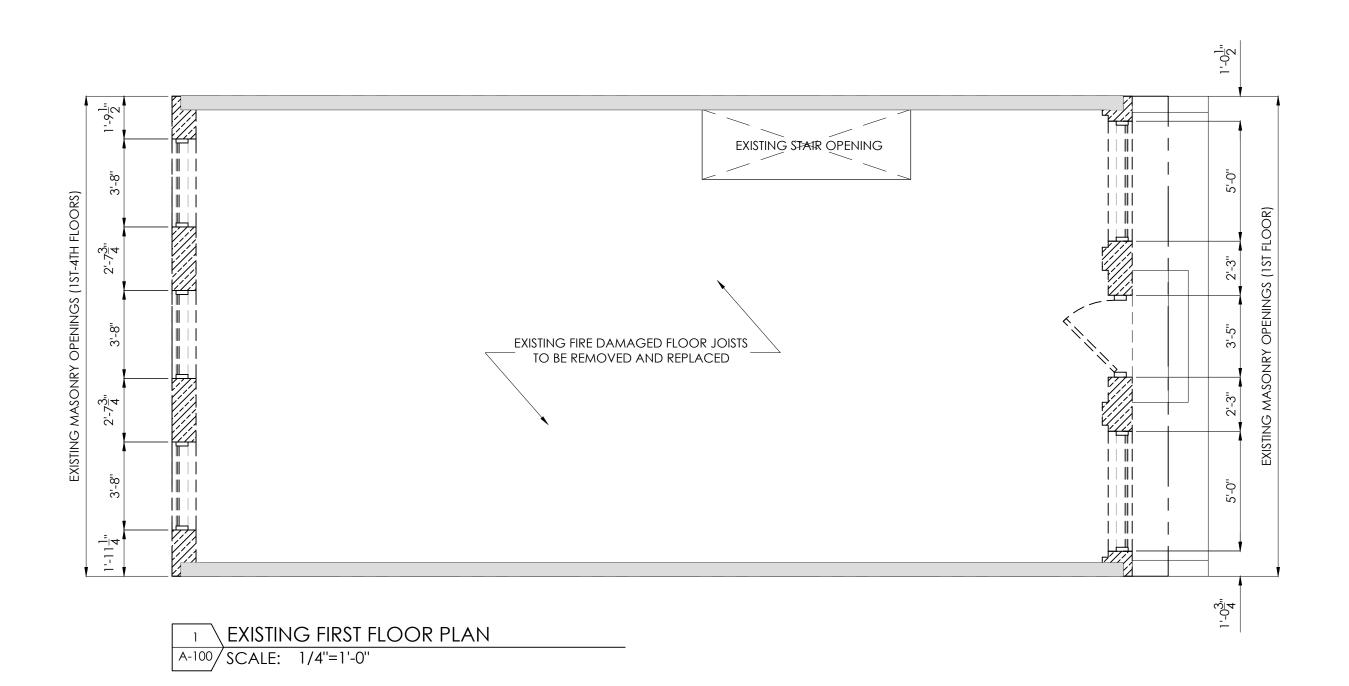


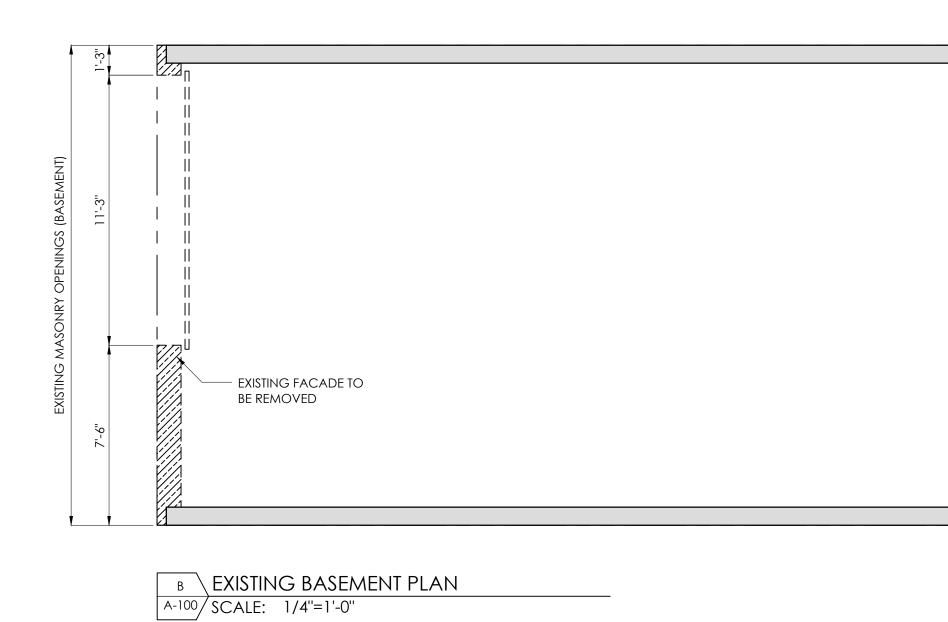
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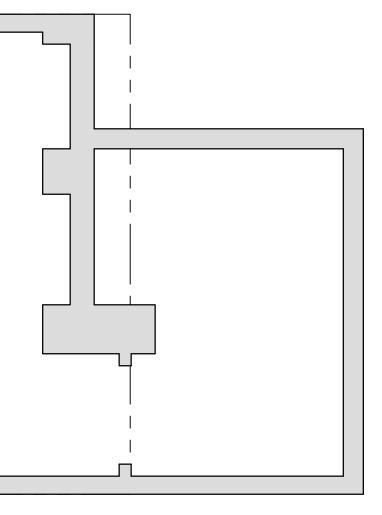


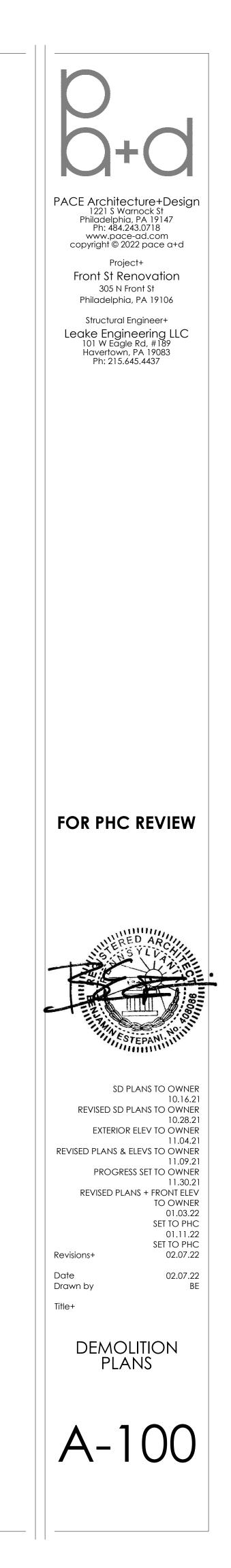


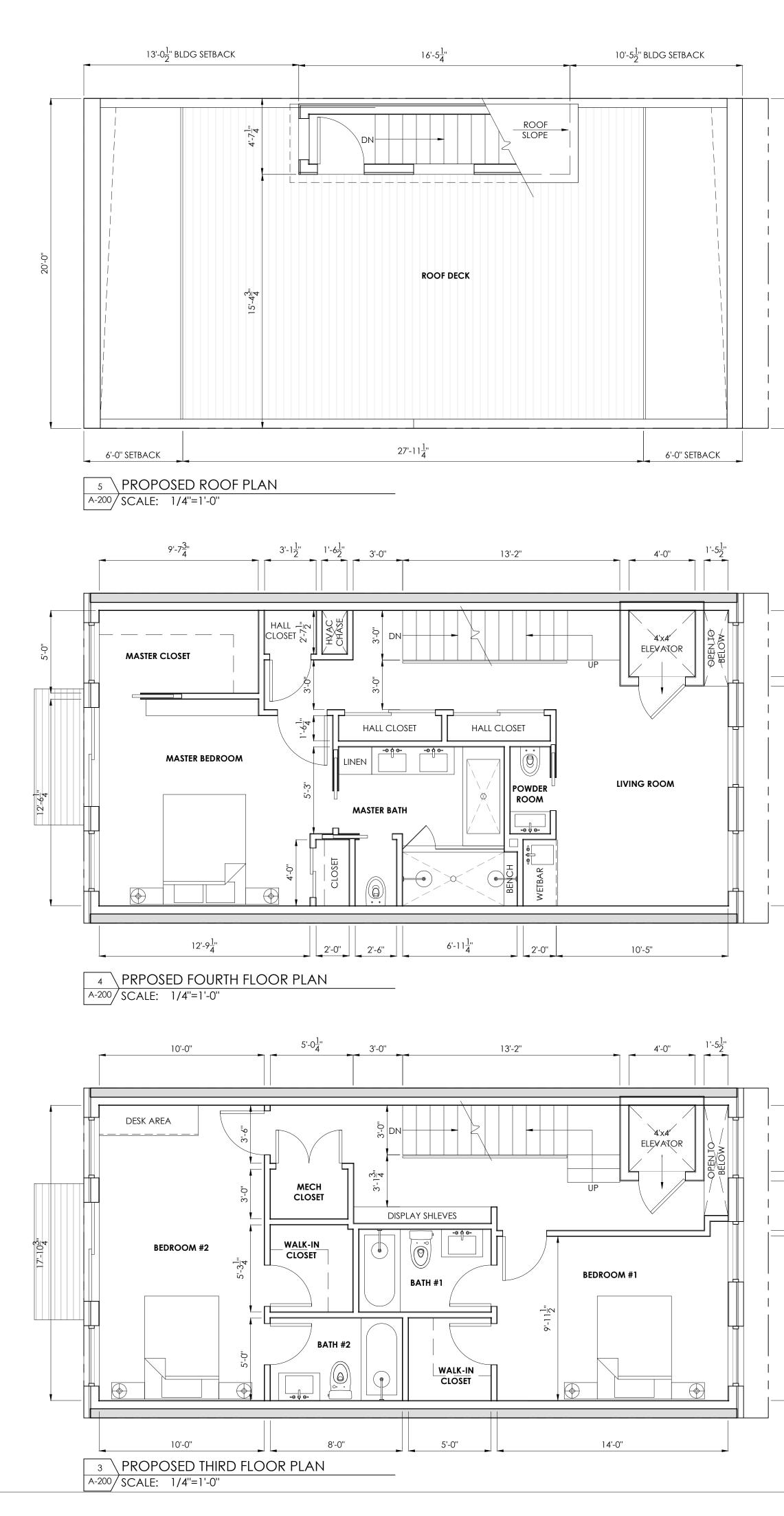
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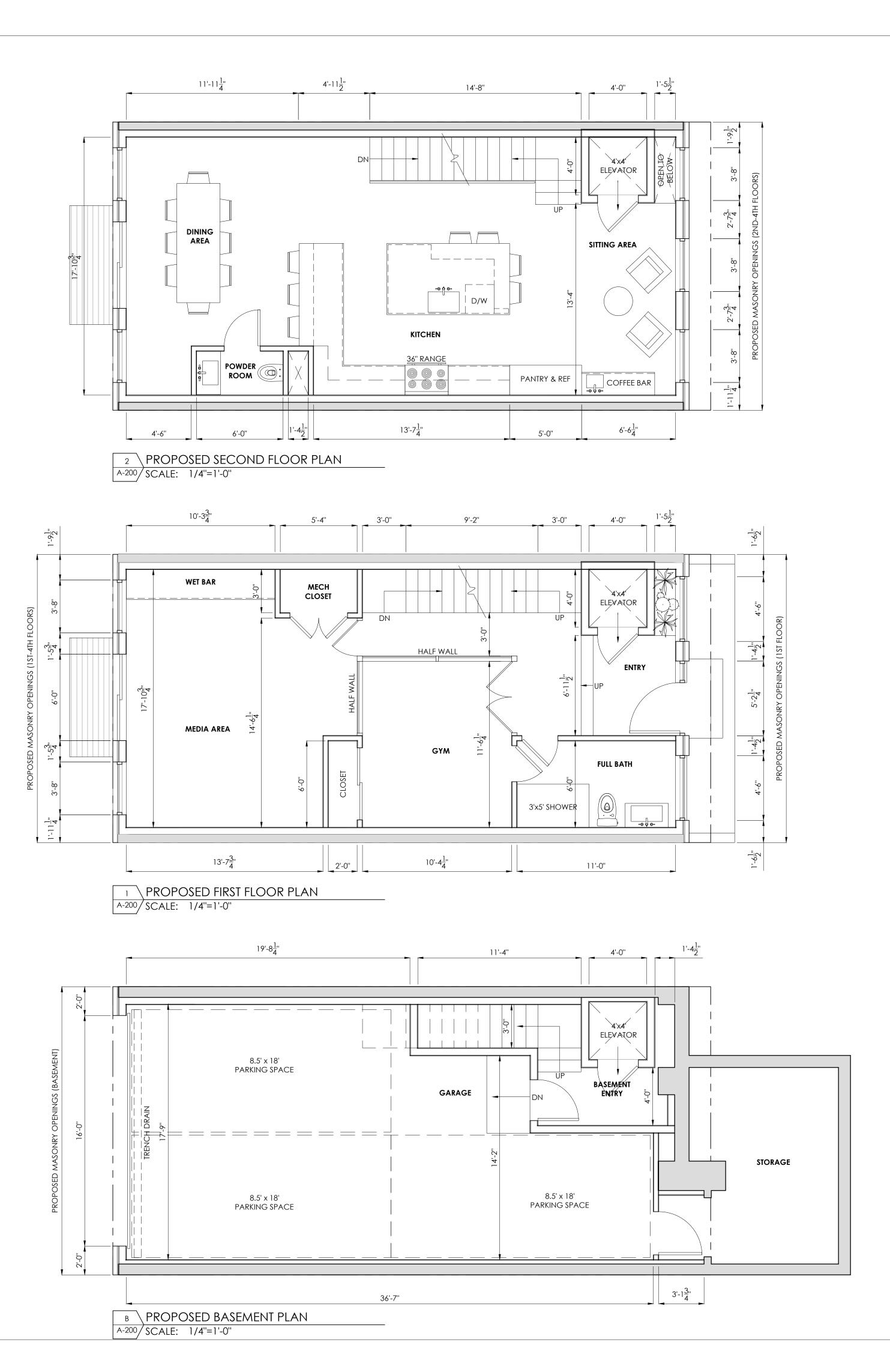








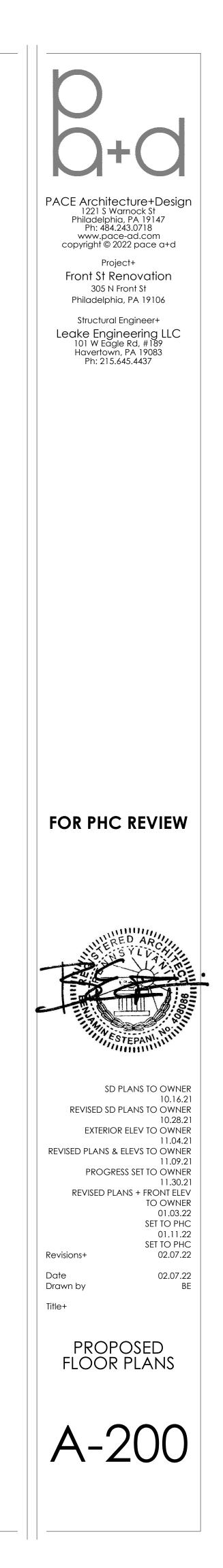


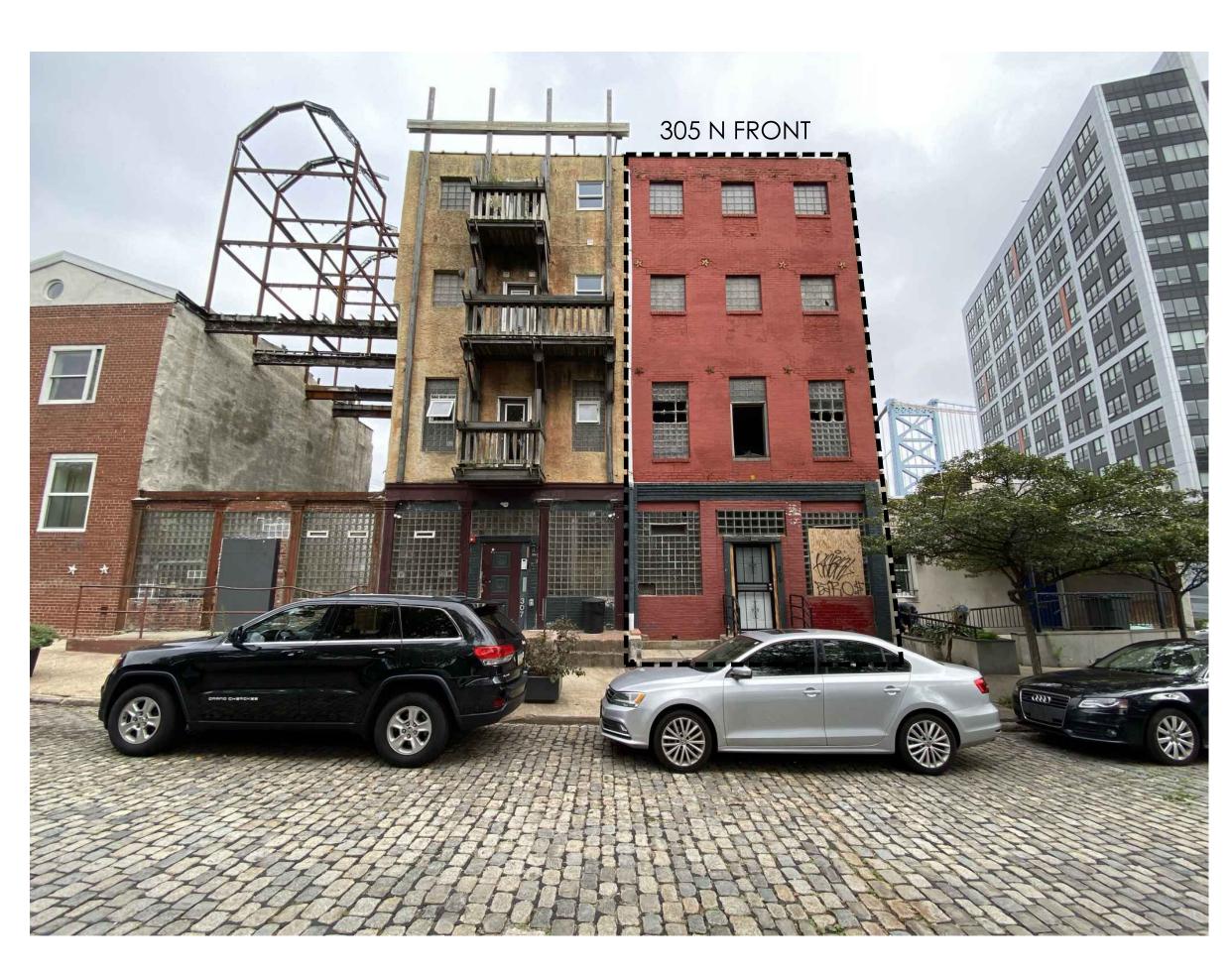


20'-0"

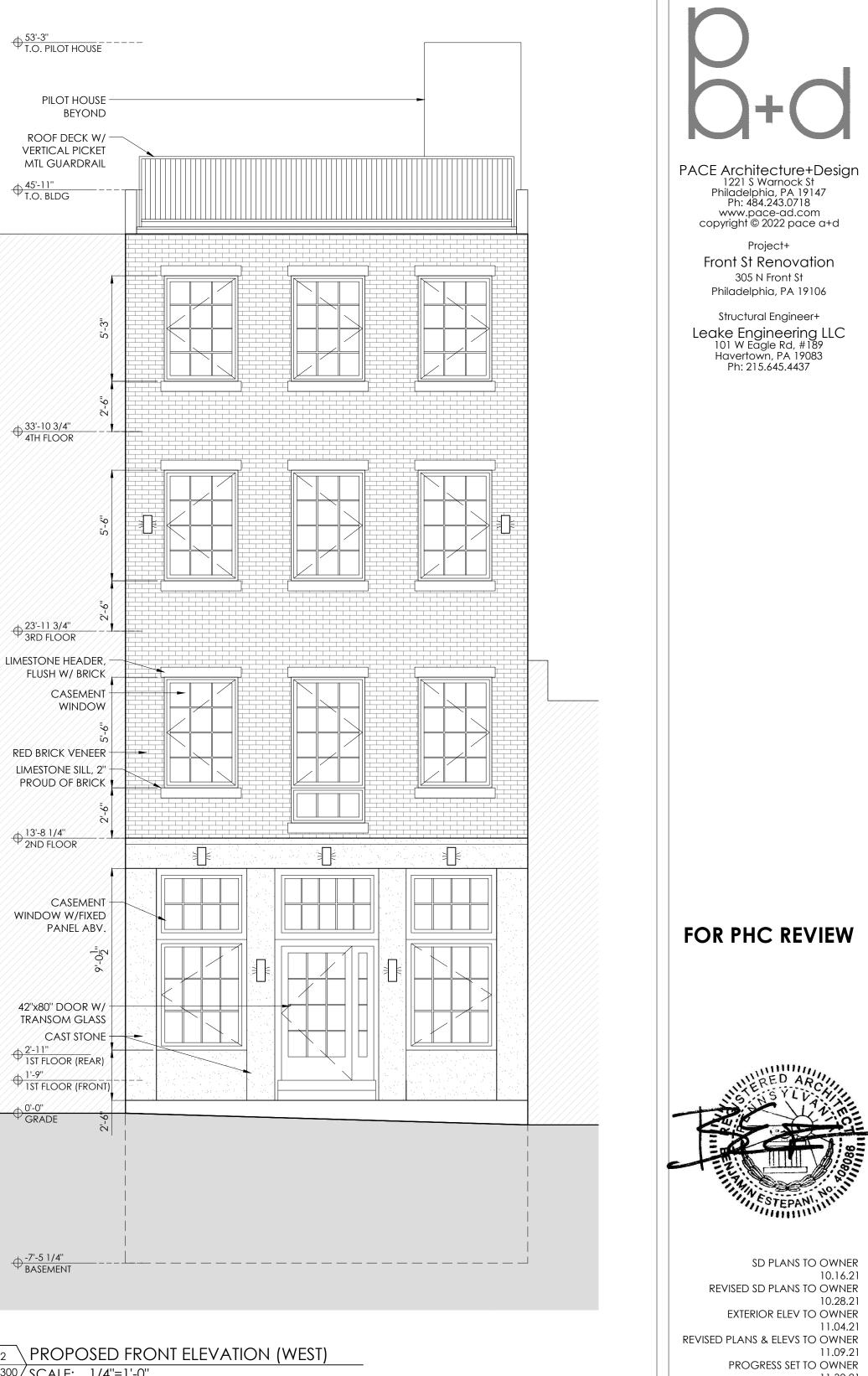
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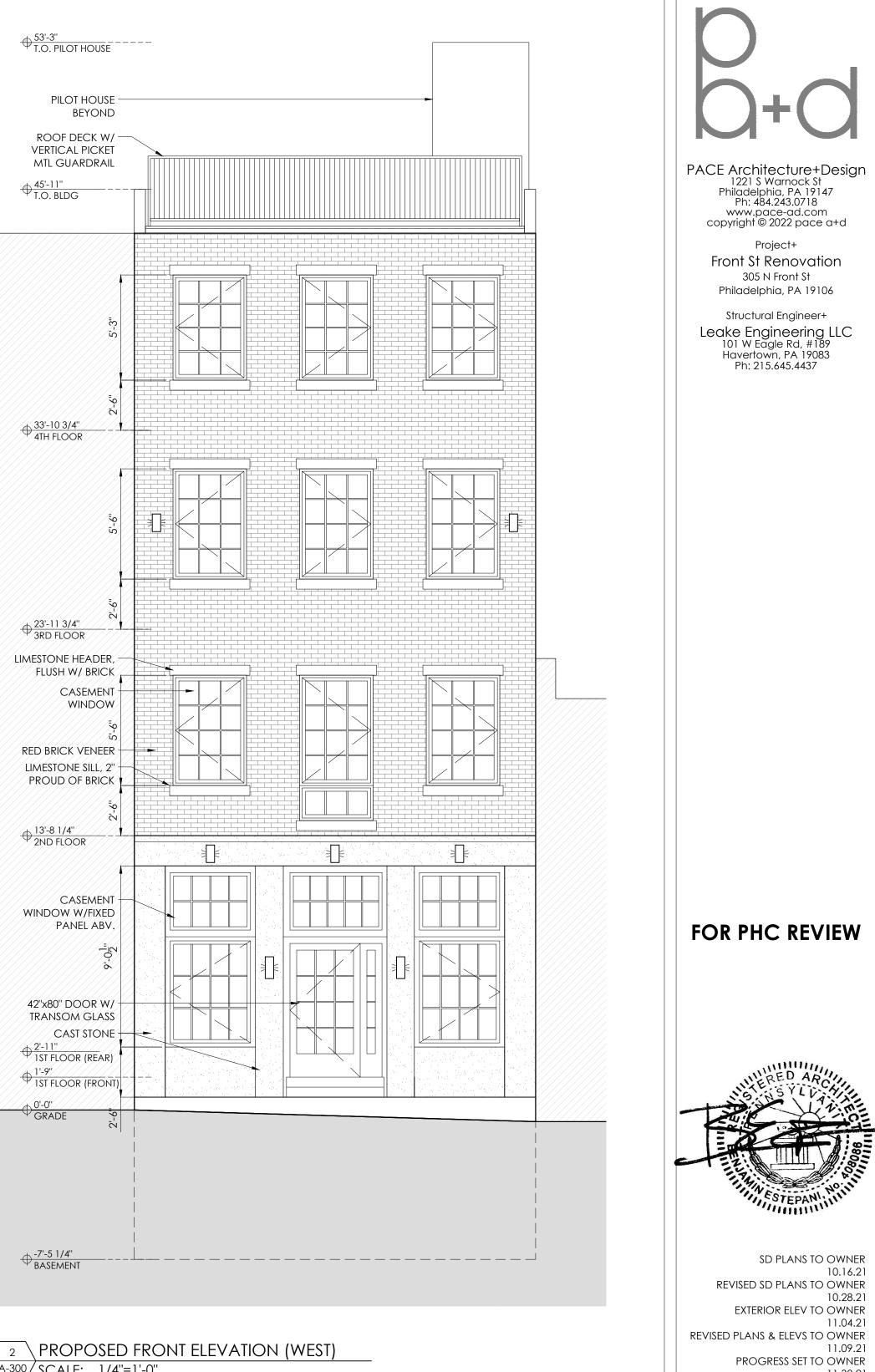
10'-0" 3'-0" 4'-0"

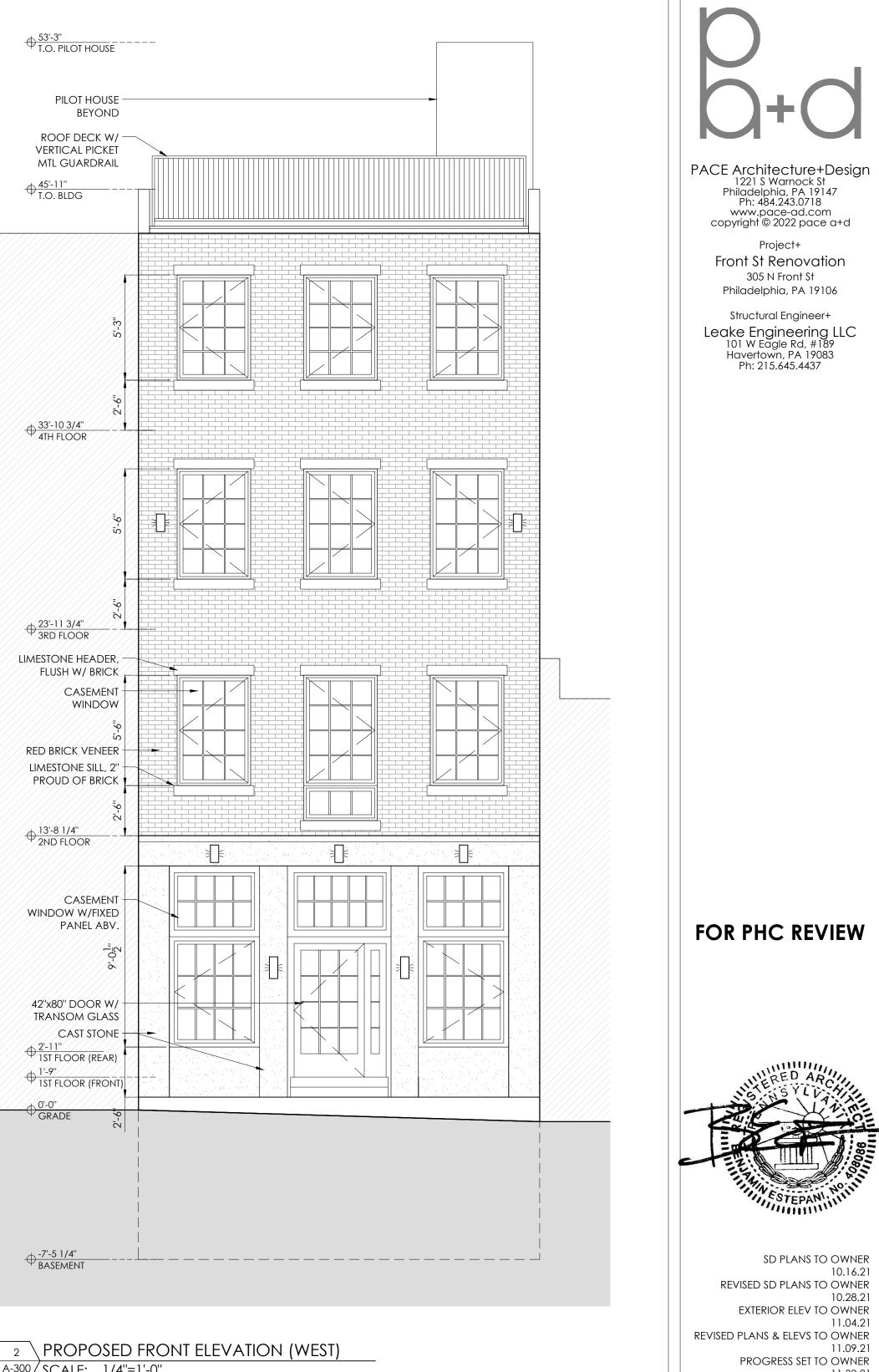


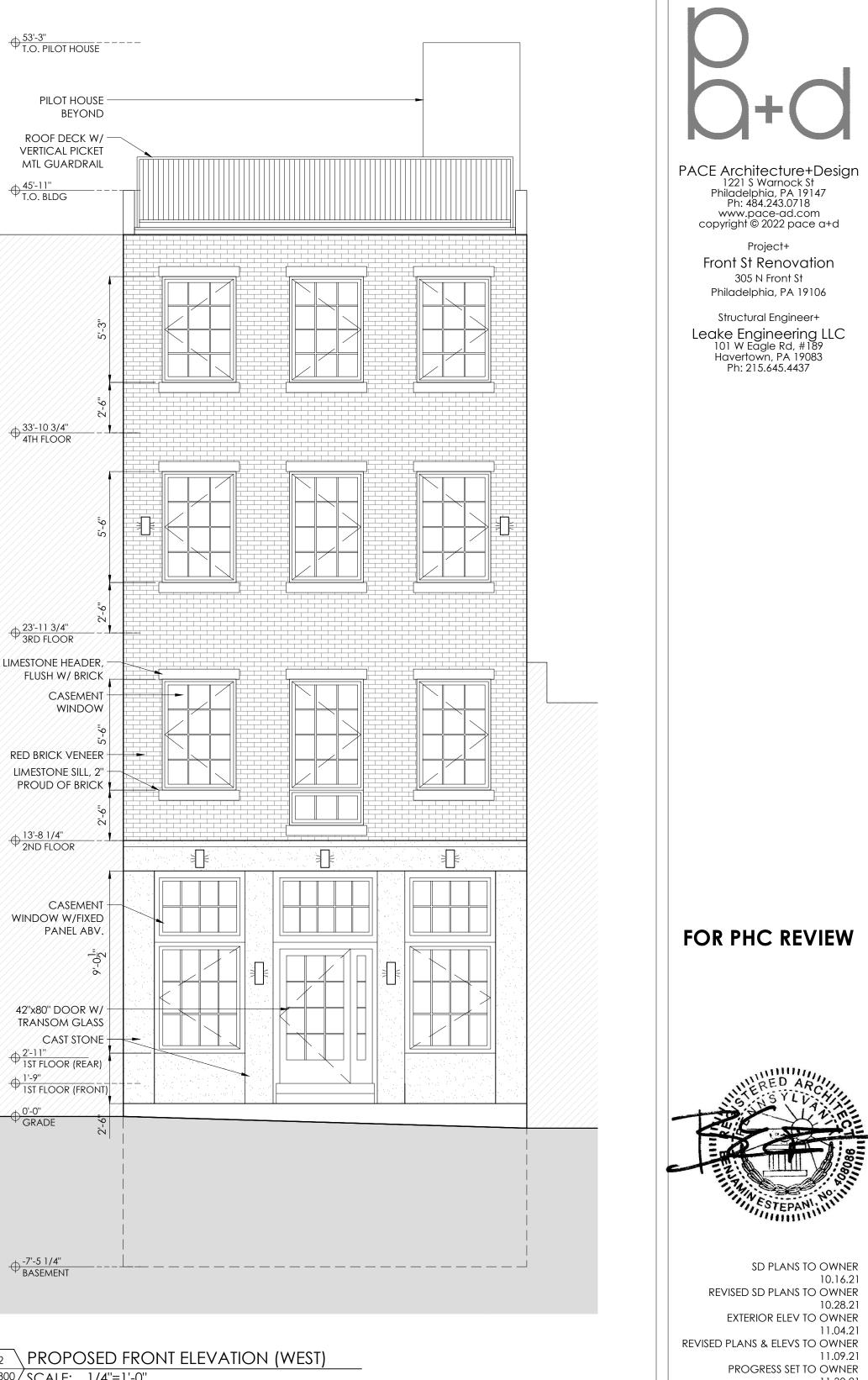


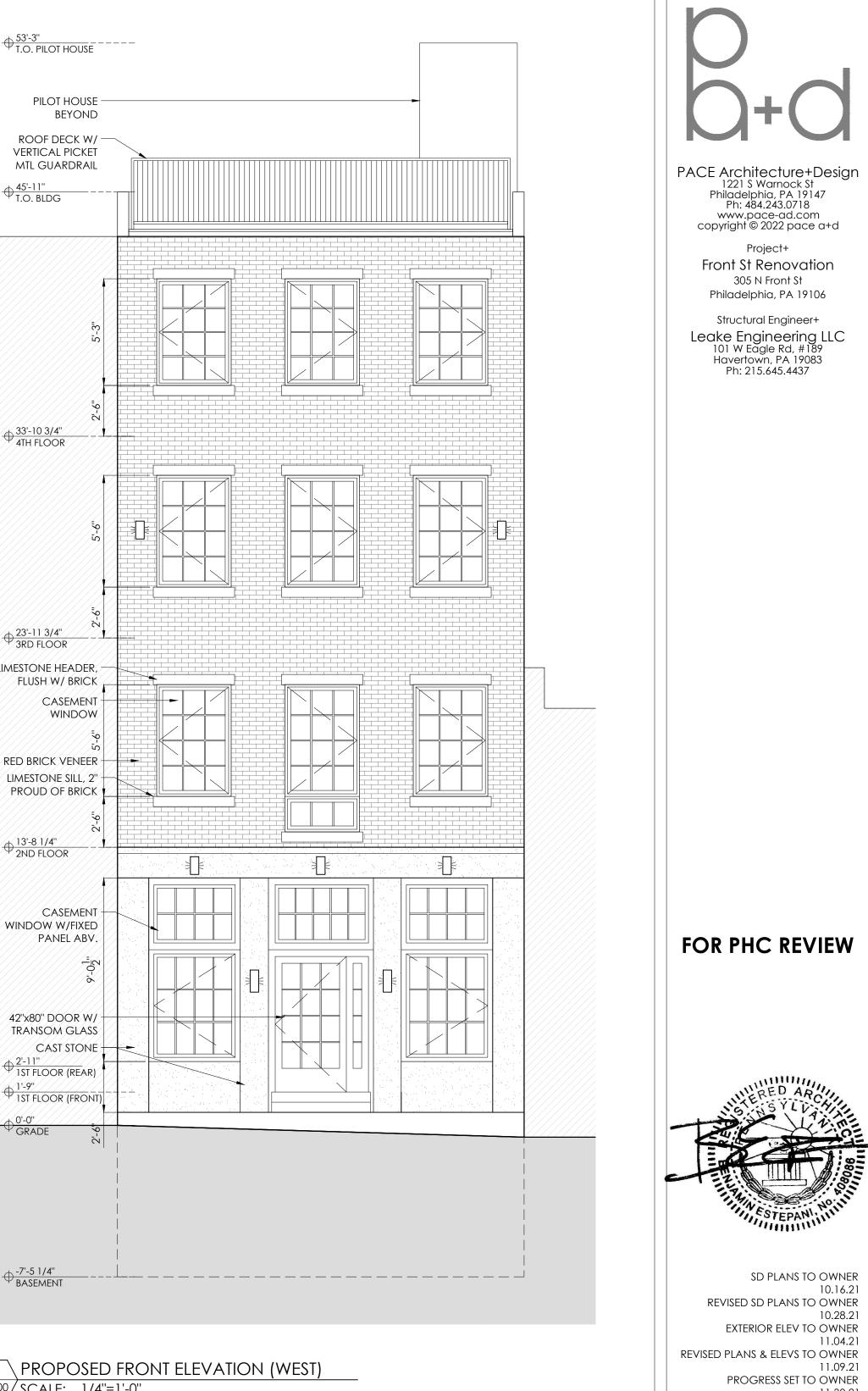
3 EXISTING FRONT ELEVATION PHOTO (WEST) A-300 SCALE: 1/4"=1'-0"











Revisions+

Date Drawn by

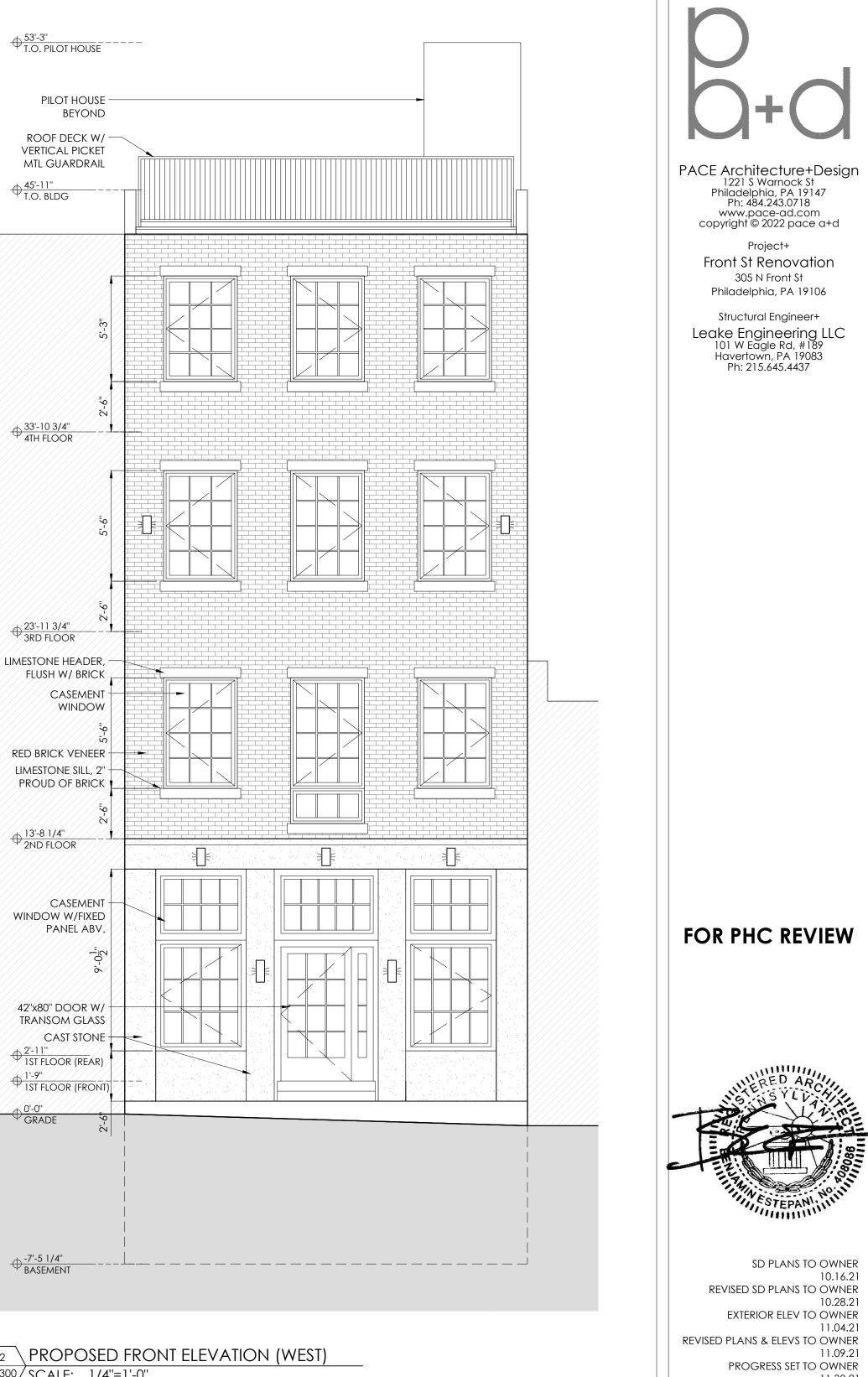
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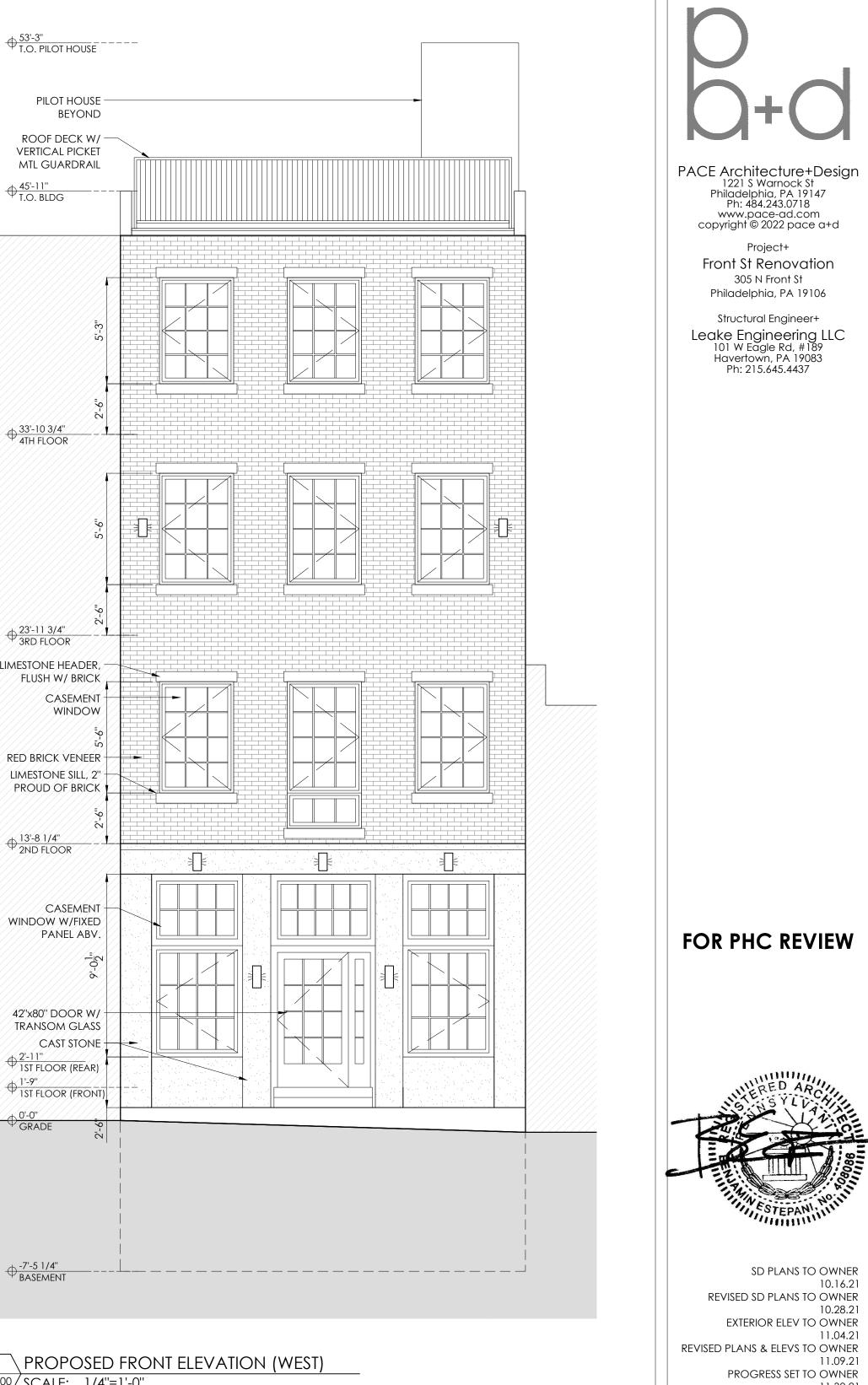
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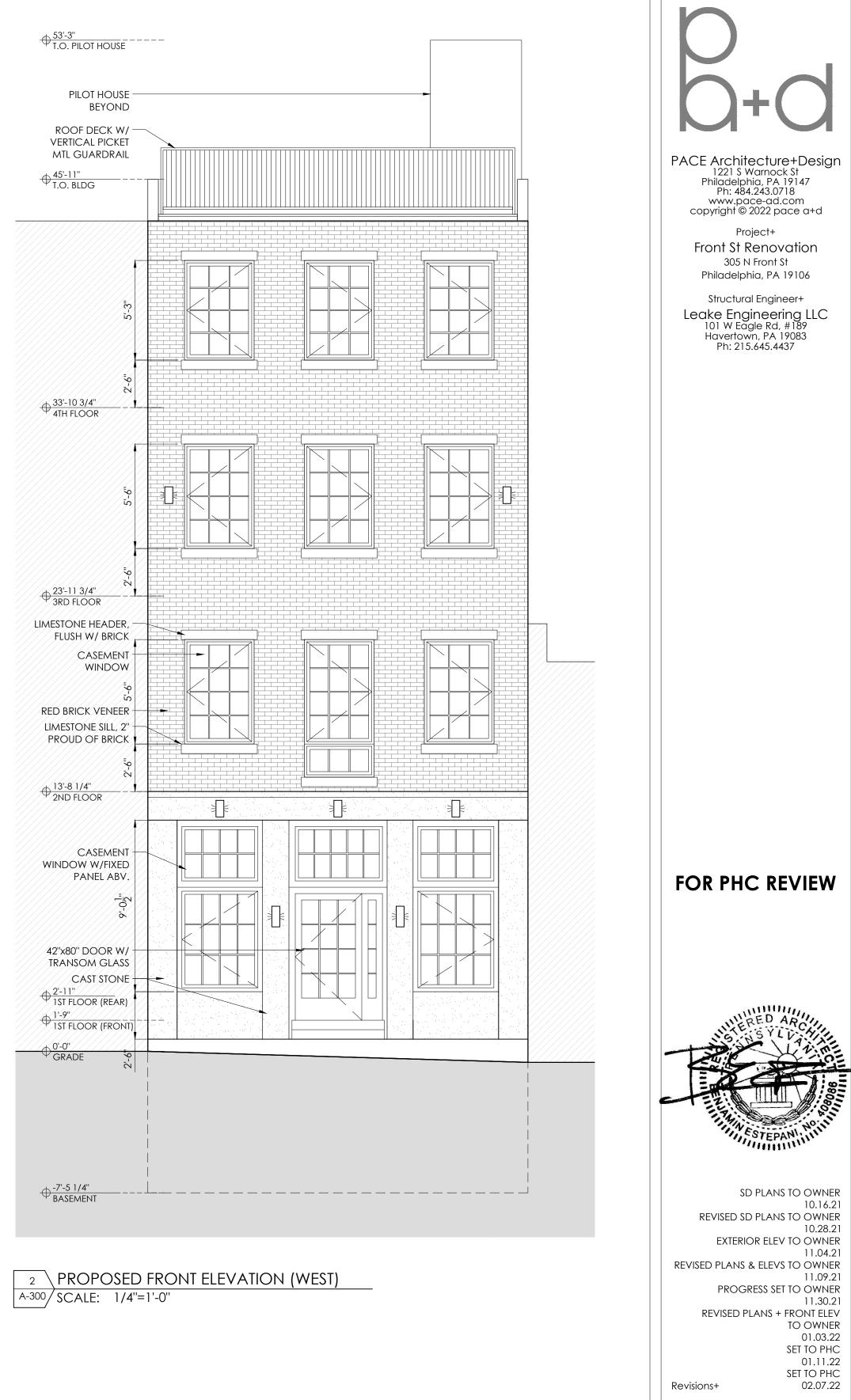
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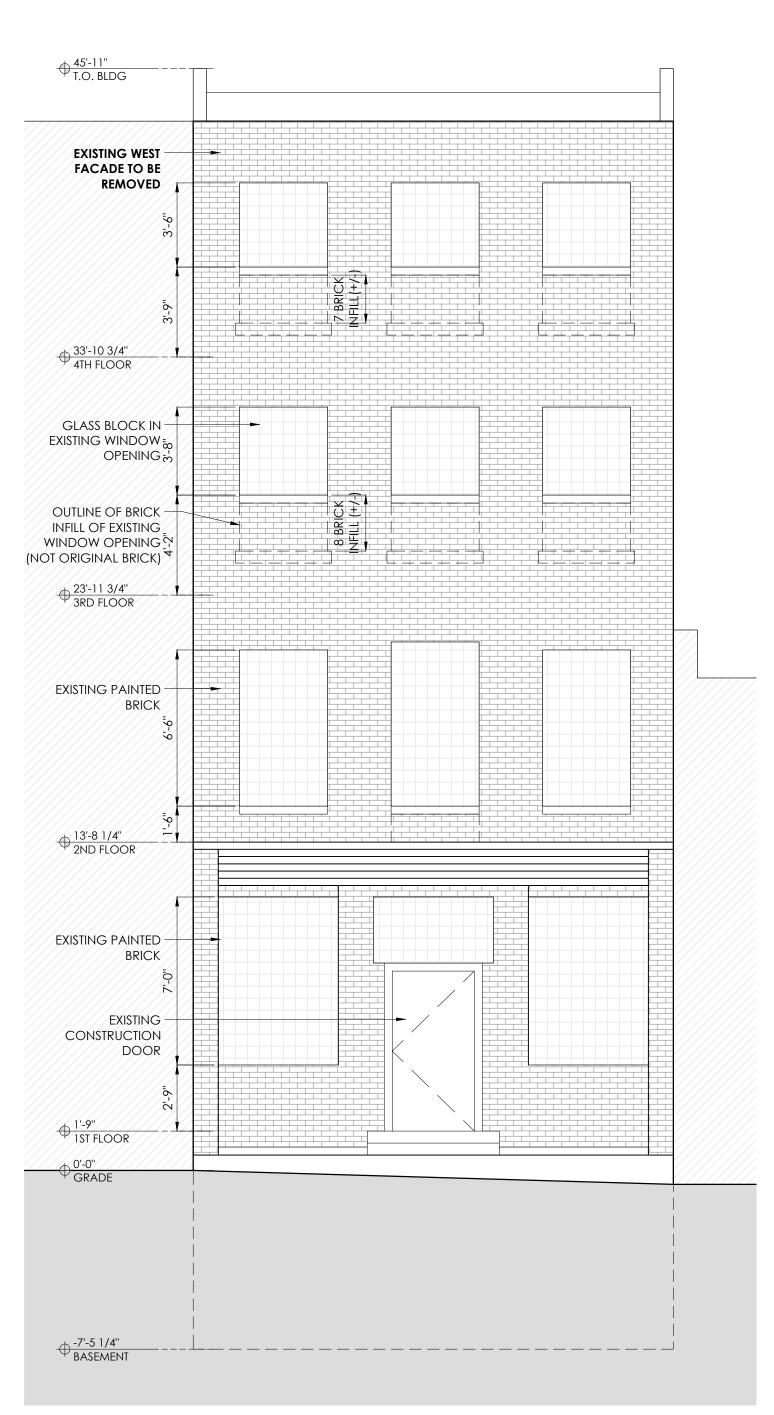
A-300

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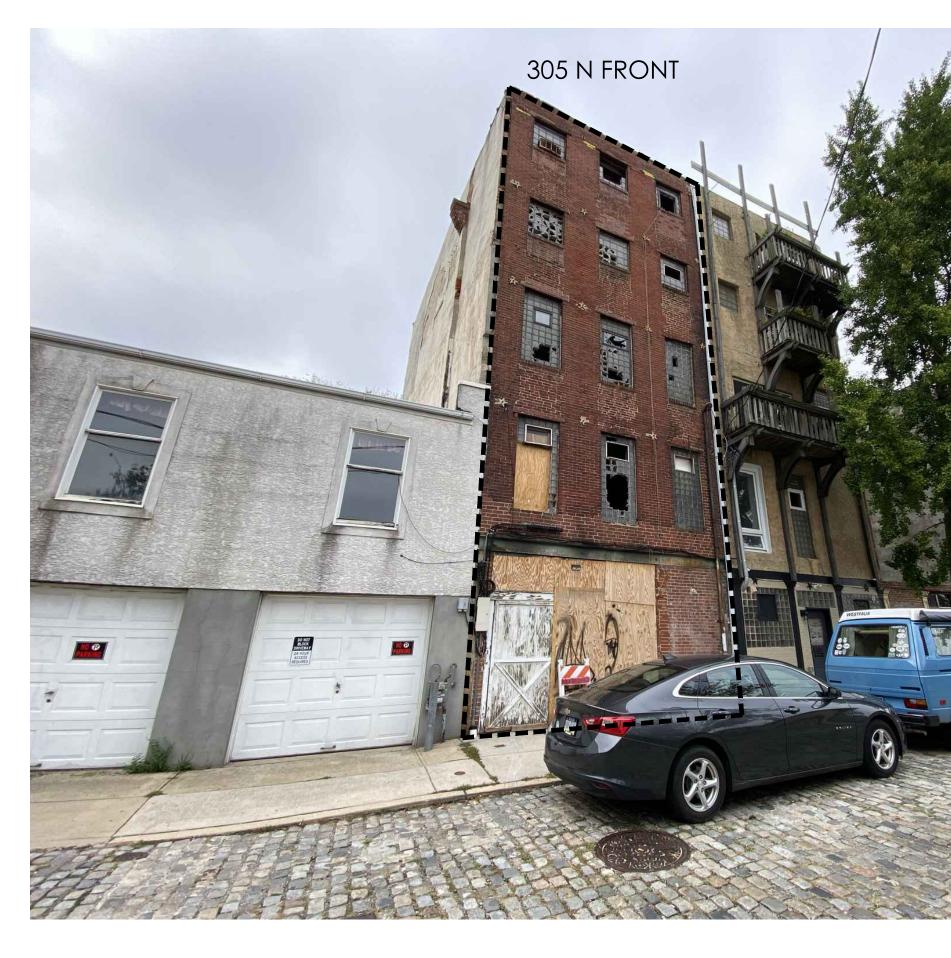




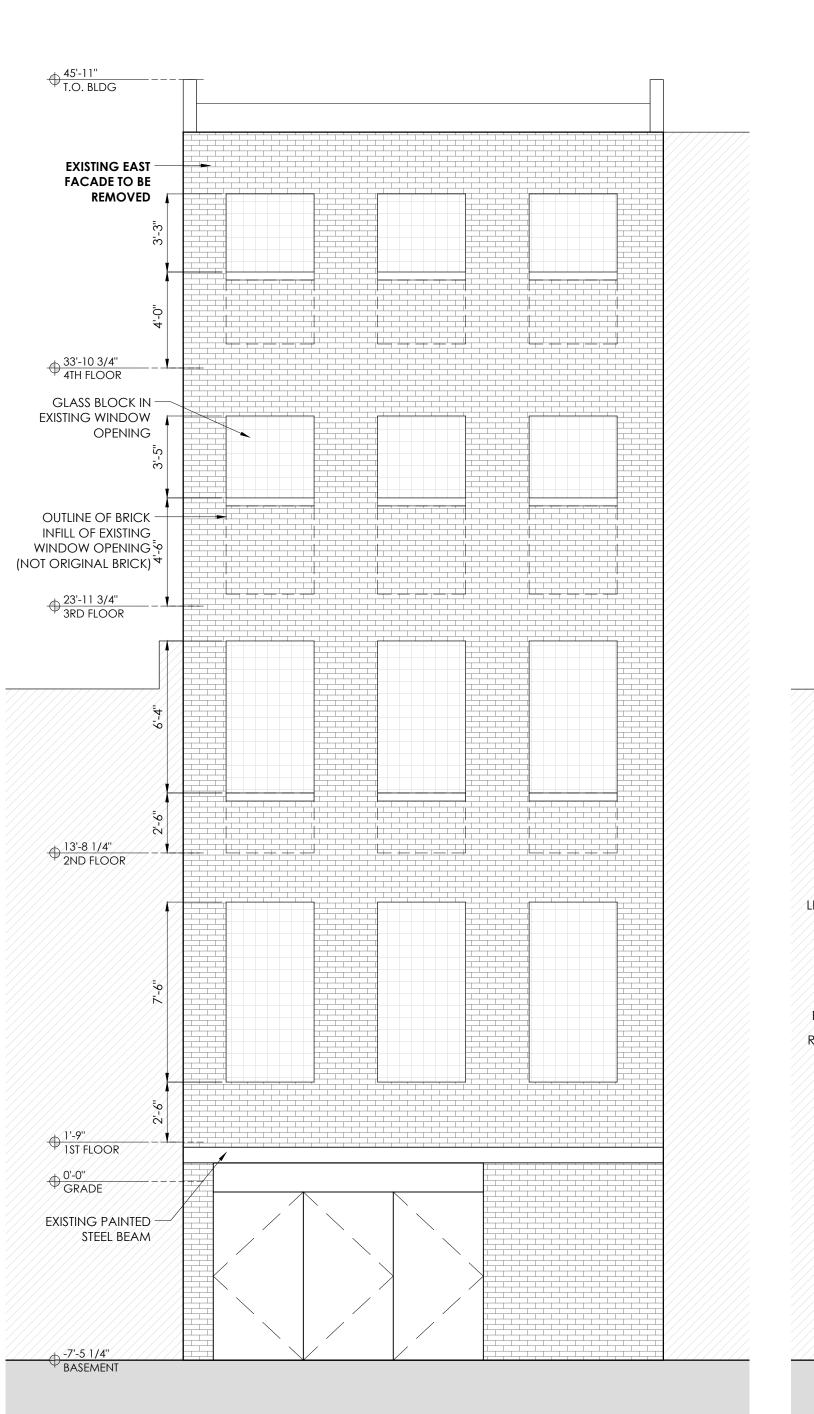
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 SCALE:

 1/4"=1'-0"



3 EXISTING REAR ELEVATION PHOTO (EAST) A-300 SCALE: 1/4"=1'-0"

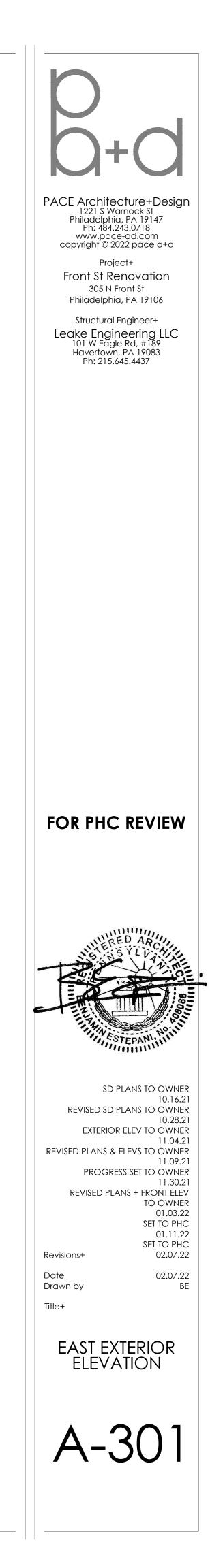


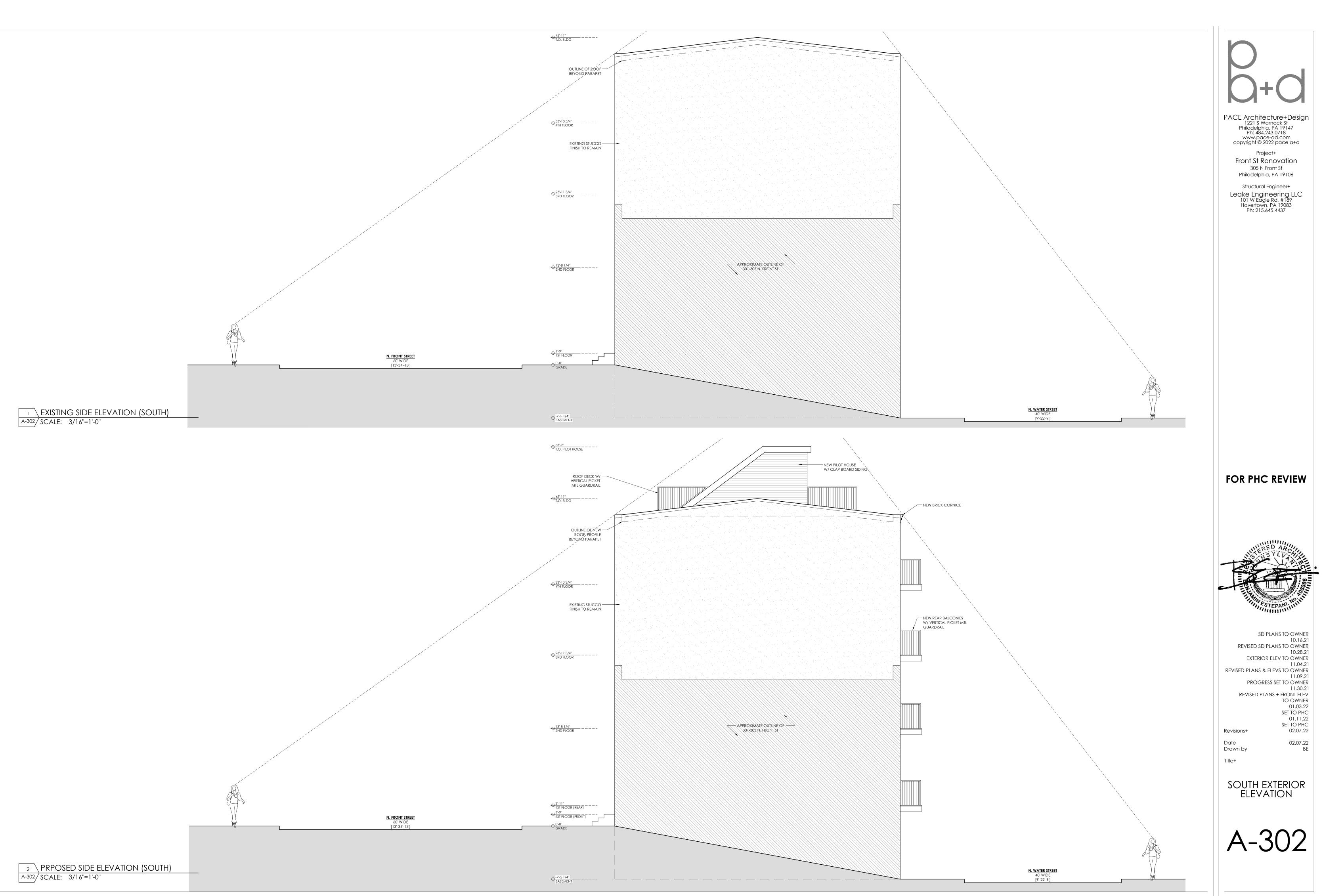
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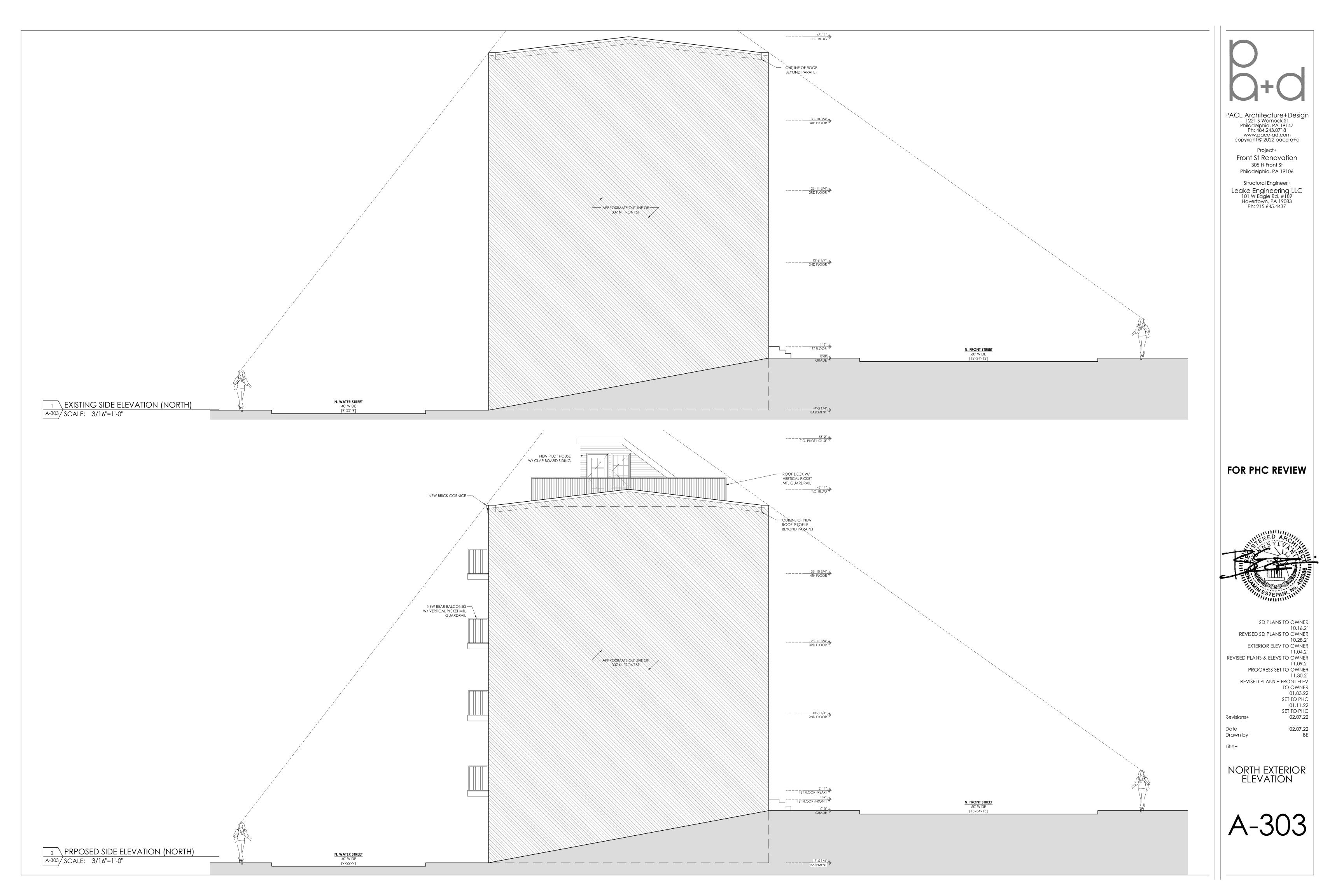
1 EXISTING REAR ELEVATION (EAST) A-301 SCALE: 1/4"=1'-0"



2 PROPOSED REAR ELEVATION (EAST) A-301 SCALE: 1/4"=1'-0"









Date: 02/01/2022

1

Leake Engineering LLC 101 W Eagle Rd #189

Havertown, PA 19083 484 380 5419

Project Address: 305 N Front St. Philadelphia, PA 19106

Scope of Work (SOW): Analysis of the front and rear walls to determine the feasibility of restoring the walls.

GOVERNING CODES:

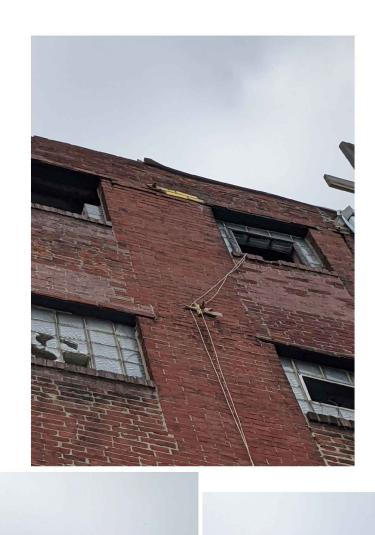
1. International Building Code and Residential Code 2018 (IBC/IRC 2018)

2. AISC 14th Edition, Manual of Steel Construction 3. ACI 318-08, Building Code Requirements for Structural Concrete

4. ASCE/SEI 7-05, Minimum Design Loads for Buildings & Other Structures

5. AWC SDPWS-08, National Design Specifications for Wood Construction

6. ACI 530-08, Building Code Requirements for Masonry Structures





To Whom It May Concern,

This document is to discuss the feasibility of restoring the existing front and rear walls for 305 n Front St, Philadelphia, PA.

Background. The building at 305 N Front St is a four story double wythe brick building. The foundation for the building is stacked stone and the interior framing is wood. The side walls for the structure are the load bearing walls and the front and rear walls bear the load of the brick above.

Foundation Deflection. The foundation for the front and rear of the building are deflecting. This deflection is most commonly the result of voids created around and under the foundation walls. These voids are created by water infiltration as the result of broken or cracked underground pipes that either sleeve through or run adjacent to the foundation walls. These voids affect the lateral stability of the foundation walls allowing them to deflect.

Double Wythe Construction. The brick walls for the front and rear are double wythe brick. As a result of the deflection in the foundation walls the layers of brick are coming apart and water is beginning to infiltrate between the bricks. During the winter months the water between the bricks will freeze and expand, pushing the bricks further from each other. This ultimately results in the appearance of a bowing wall.

Previous Reinforcement. There was a previous reinforcement completed on the deflecting brick walls. This reinforcement consisted of steel plates on the front and back of the building between the floors. This reinforcement is typically referred to as star bolts and is tied back into the wood framing on the interior of the building. Since the star bolts were installed, the star bolts are now "punching" through the brick wall. This punching is evidence that the wall is still moving despite the previous reinforcement.

Adjacent Building. The front and rear facade for the adjacent building is also deflecting. This building was reinforced with wooden 6"x6" posts running vertically and anchored into the building's interior framing between the floors. The 6"x6" posts are deteriorating and will eventually fail. Because the brick walls are connected a failure of those posts may result in a failure of the wall at 305 N Front St.

Conclusion. Given the evidence gathered onsite it is recommended that the brick walls be demolished and rebuilt.

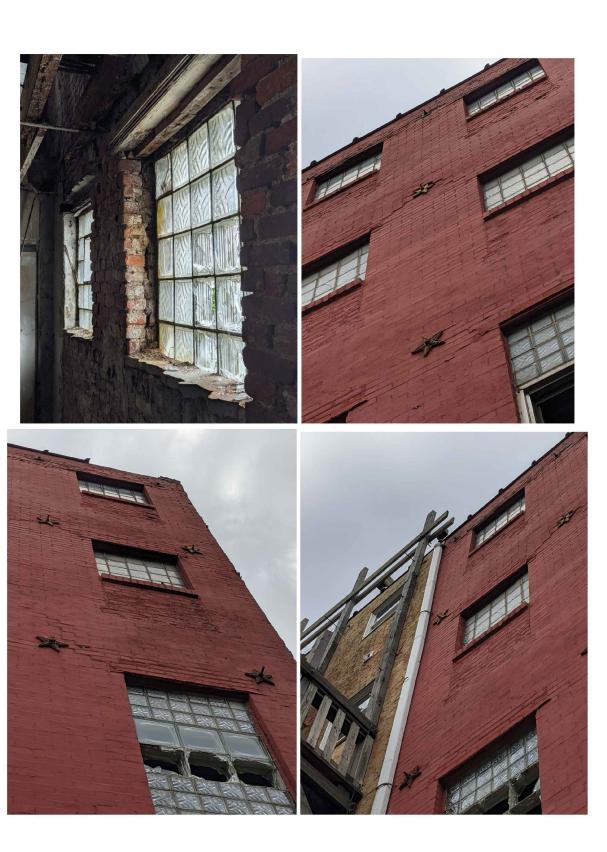


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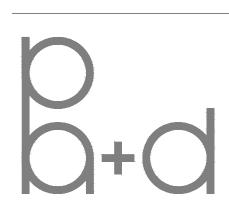


We reserve the right to amend these conclusions if additional information becomes available. This conclusion is based on data gathered by a field inspection and represents our opinion based on a reasonable degree of engineering certainty with the evidence gathered. Any site plans or details provided with this report are not meant to be used as construction documents. If construction documents can be provided for an additional fee. If you have any questions please contact Alex Bruno at 484 380 5419 or alex.bruno@leakeengineering.com.

Respectfully,



Alex Bruno, P.E.



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FOR PHC REVIEW

SD PLANS TO OWNER 10.16.21 REVISED SD PLANS TO OWNER 10.28.21 EXTERIOR ELEV TO OWNER 11.04.21 REVISED PLANS & ELEVS TO OWNER 11.09.21 PROGRESS SET TO OWNER 11.30.21 REVISED PLANS + FRONT ELEV TO OWNER 01.03.22 SET TO PHC 01.11.22 SET TO PHC 02.07.22 Revisions+ 02.07.22 Date Drawn by

Title+

STRUCTURAL REPORT

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