

DYER BROWN



**NATIONAL
DEVELOPMENT**

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One Winthrop Square
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976 Brady Avenue, NW #100
Atlanta, GA 30318

300 A Street National Development - Fort Point Landmarks Review

May 19, 2021

—

PREPARED BY

Dyer Brown
One Winthrop Square
Boston, MA 02110



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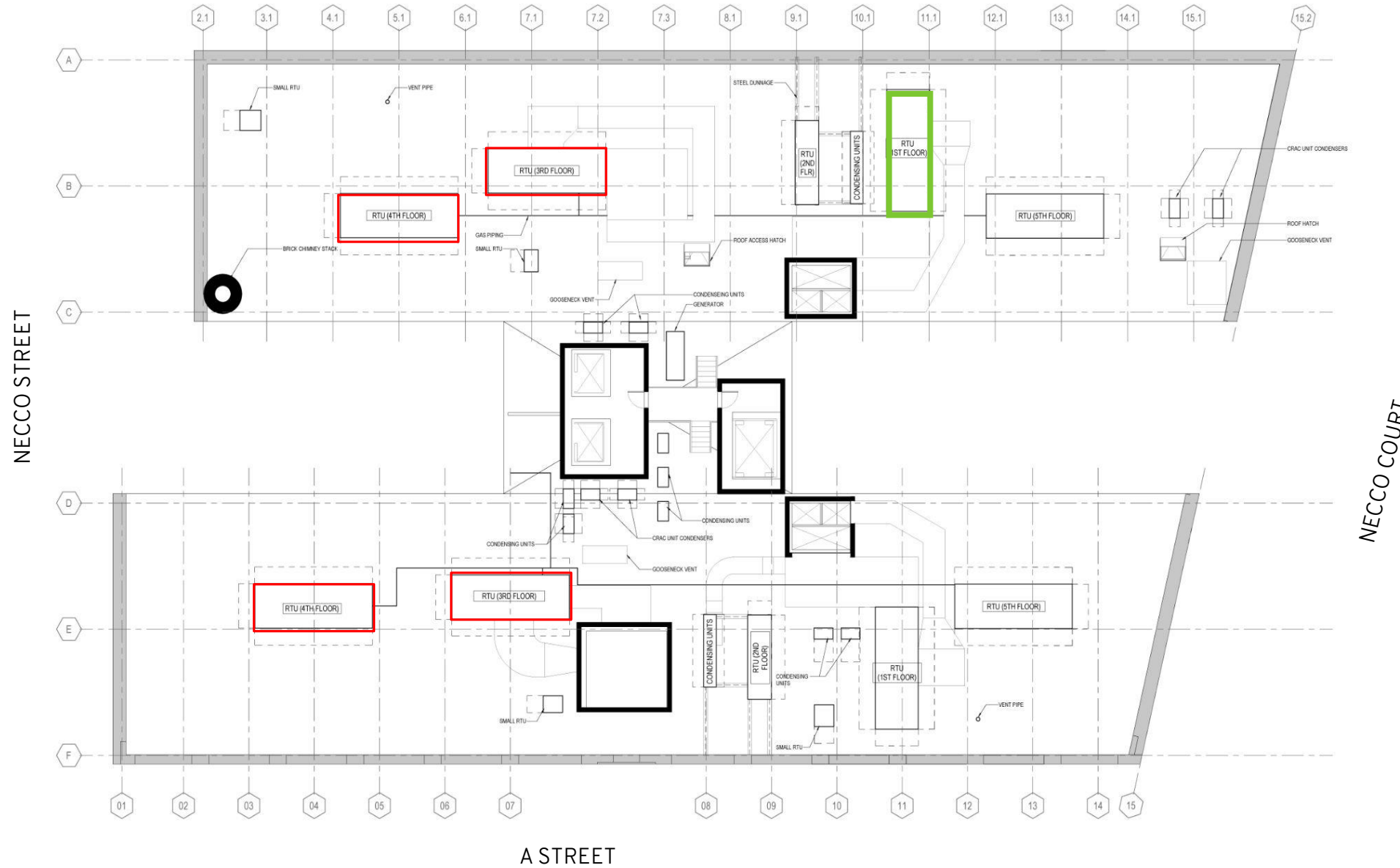
Cutsheets




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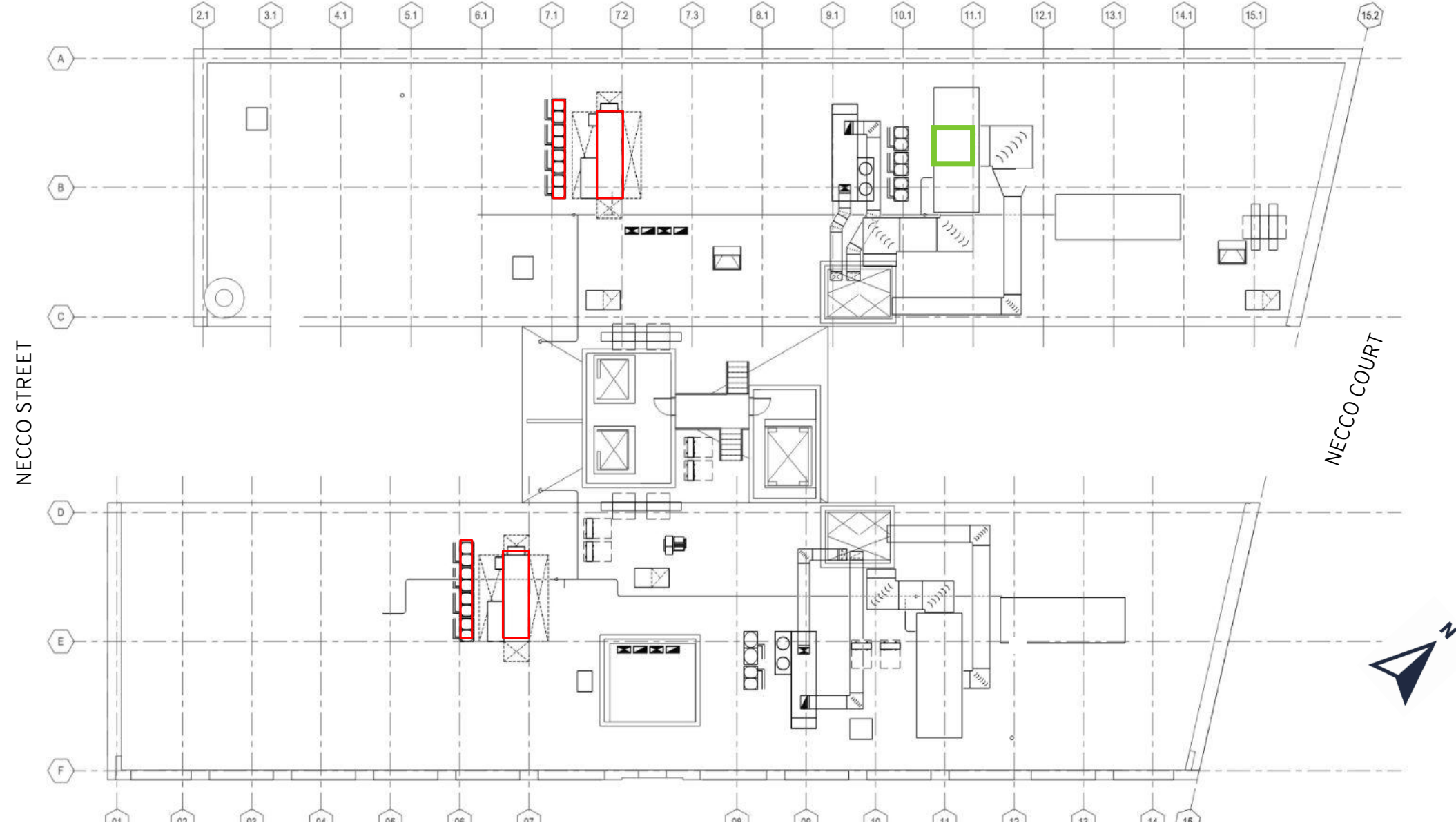
SECTION 01
—
ROOF PLANS

- EXISTING RTU'S TO BE REPLACED
- EXISTING RTU TO BE DEMOLISHED AND REPLACED AT LOADING DOCK ROOF



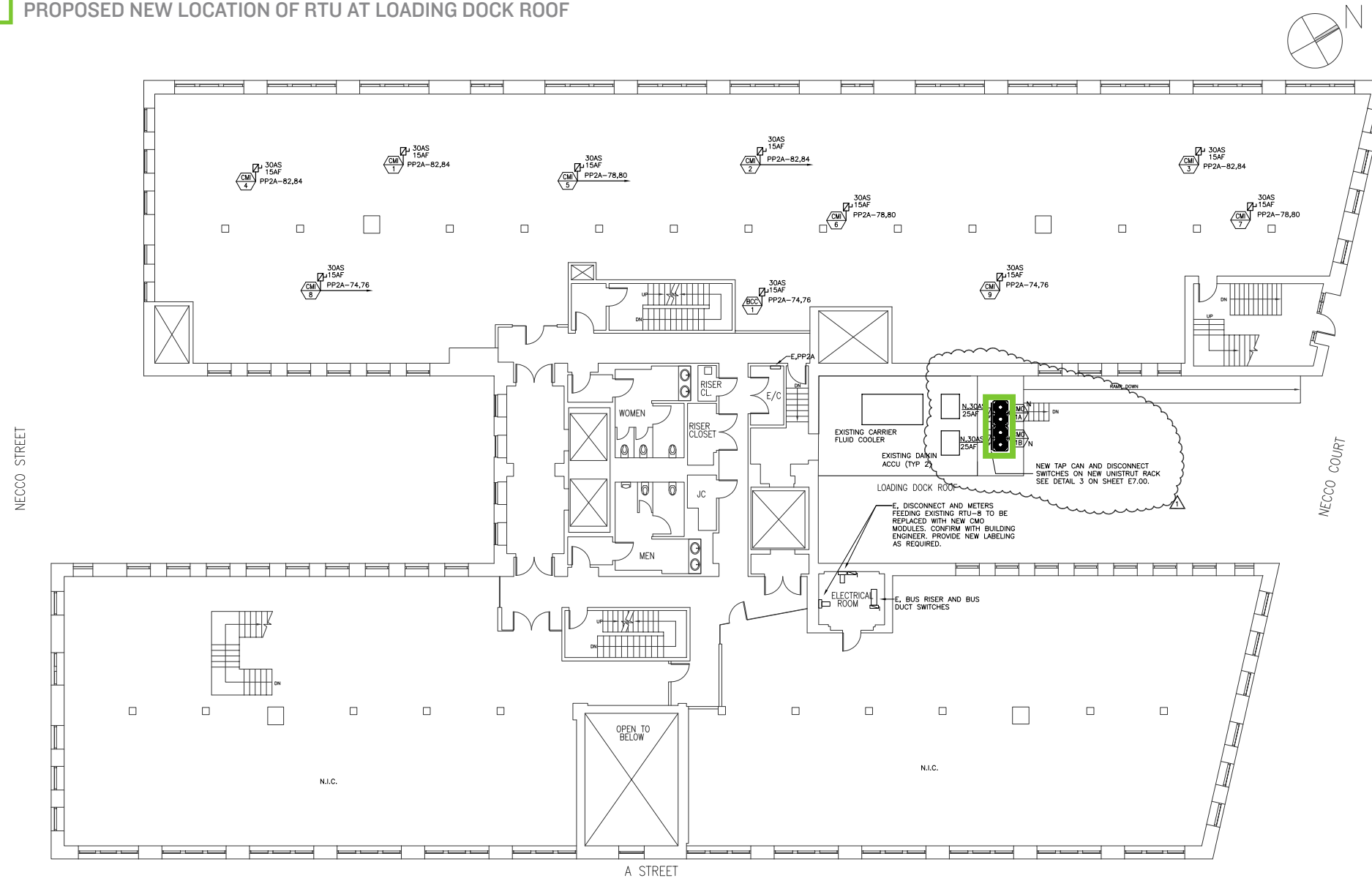
ROOF PLAN: EXISTING UNITS

-  PROPOSED RTU (AND ASSOCIATED CONDENSERS) LOCATION
-  PROPOSED OUTSIDE AIR UNIT LOCATION



ROOF PLAN: PROPOSED NEW ROOFTOP UNITS

 PROPOSED NEW LOCATION OF RTU AT LOADING DOCK ROOF



ROOF PLAN: PROPOSED NEW LOADING DOCK UNIT



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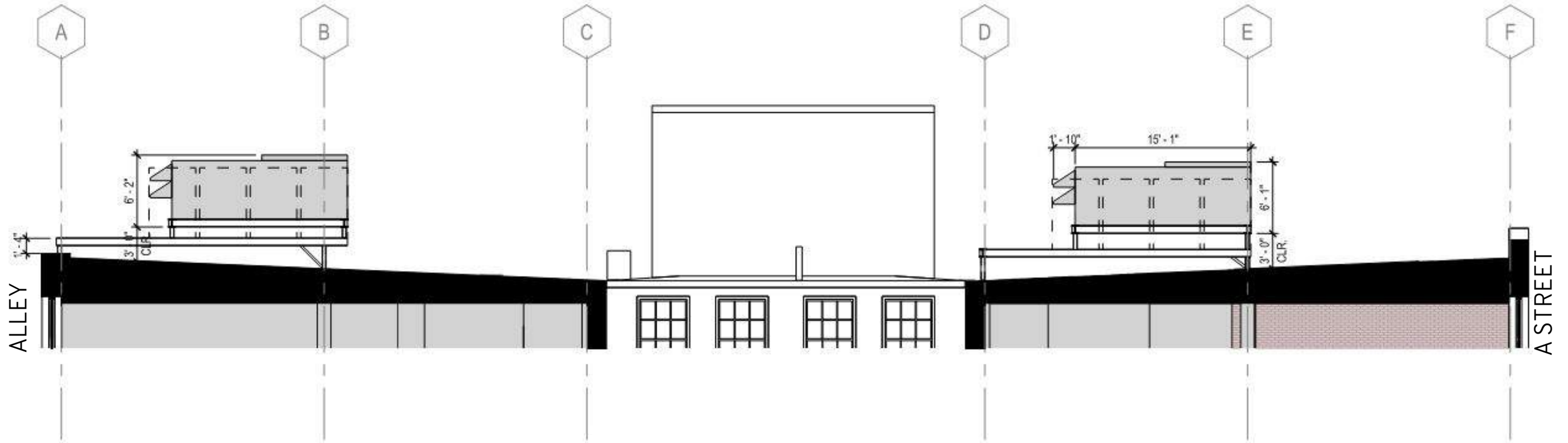
SECTION 02
—
ROOFTOP UNITS



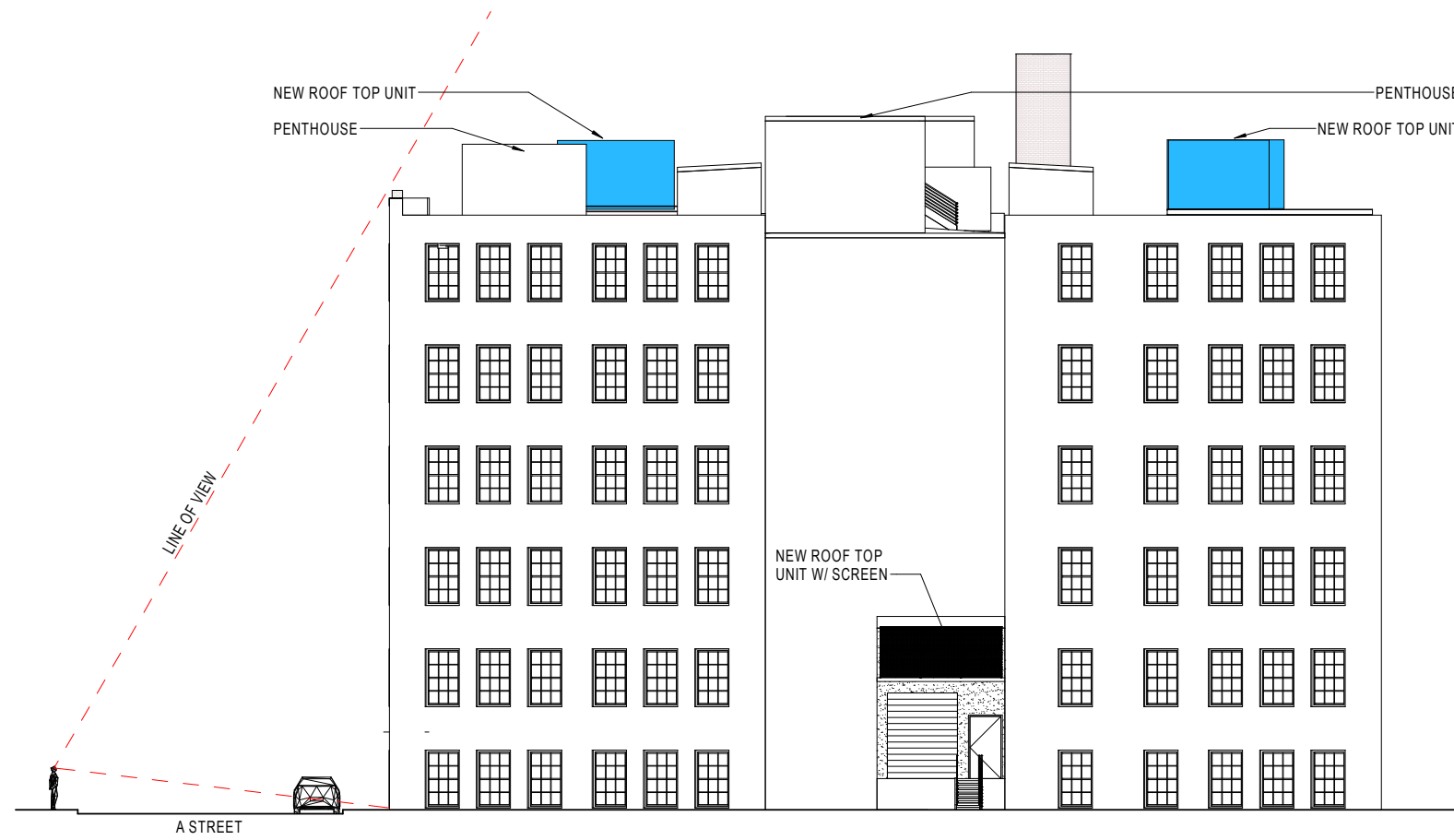
ROOFTOP UNITS: EXISTING CONDITIONS PHOTOS



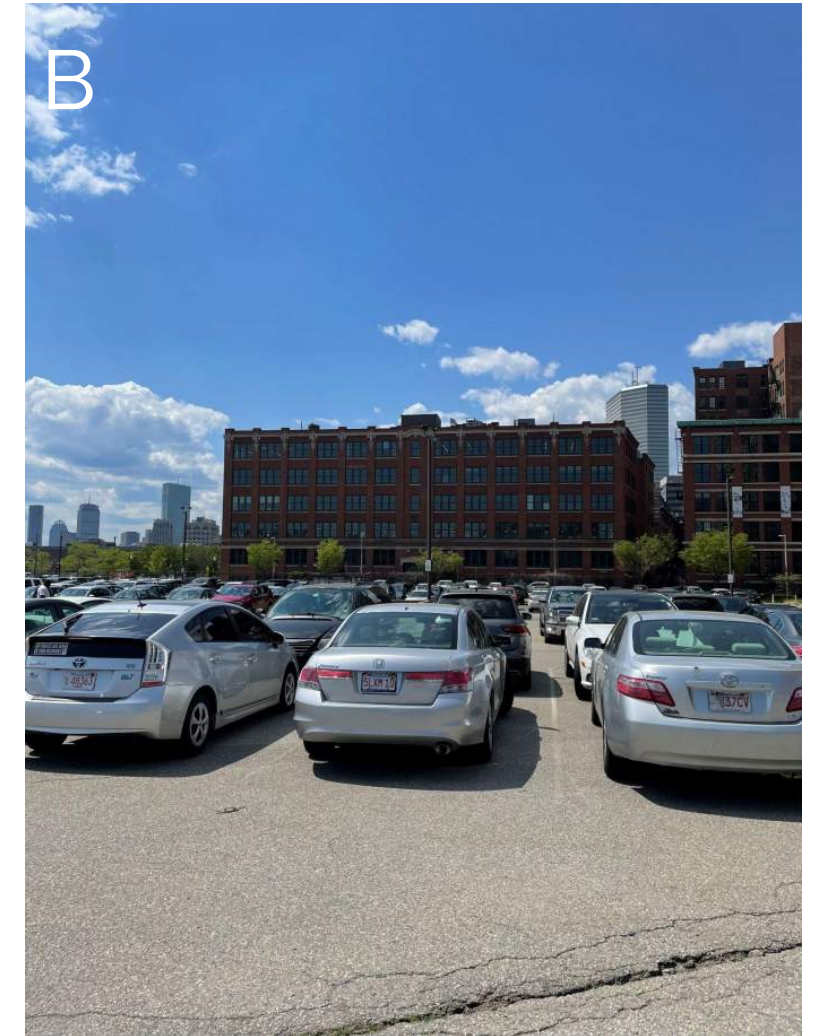
ROOFTOP UNITS: ELEVATION OF PROPOSED UNITS (NOT TO SCALE)



ROOFTOP UNITS: SECTION OF PROPOSED UNITS (NOT TO SCALE)



ROOFTOP UNITS: VIEWING ANGLE (NOT TO SCALE)

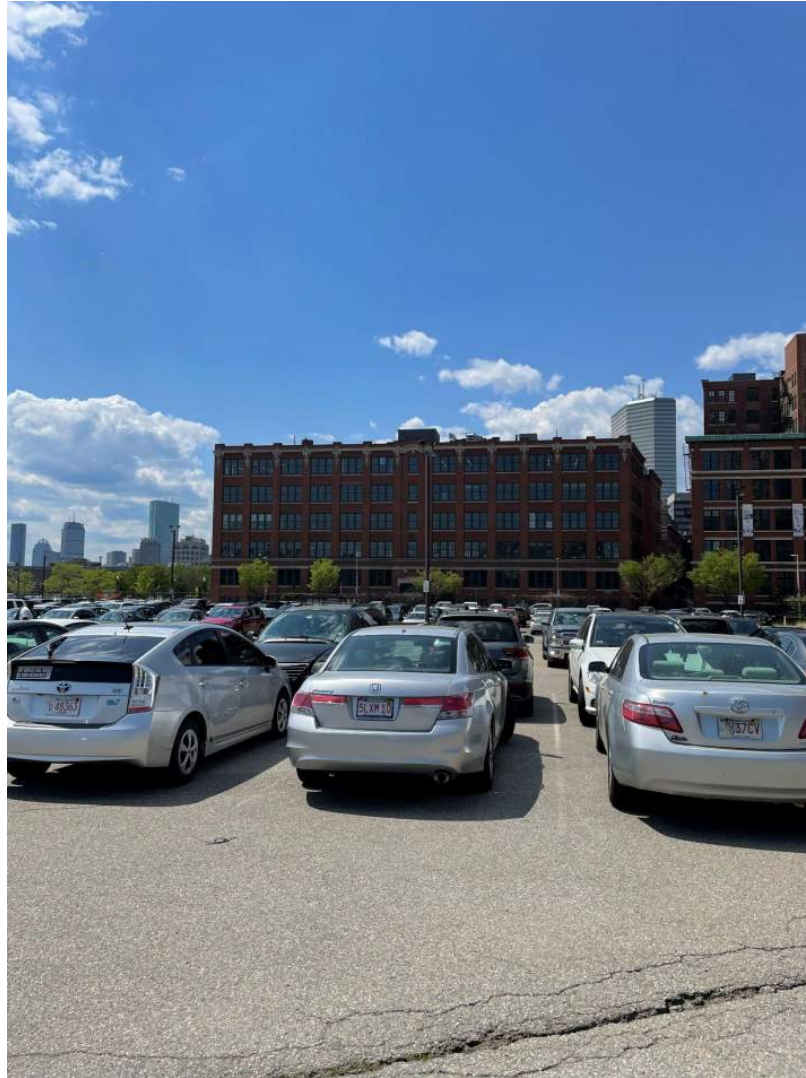


A

B



ROOFTOP UNITS: PROPOSED ROOFTOP EQUIPMENT REPLACEMENT



Proposed Location
View from Parking Lot south of A Street



Proposed Location
View from Parking Lot south of A Street (Zoom 5x)



ROOFTOP UNITS: ROOFTOP EQUIPMENT MOCKUP



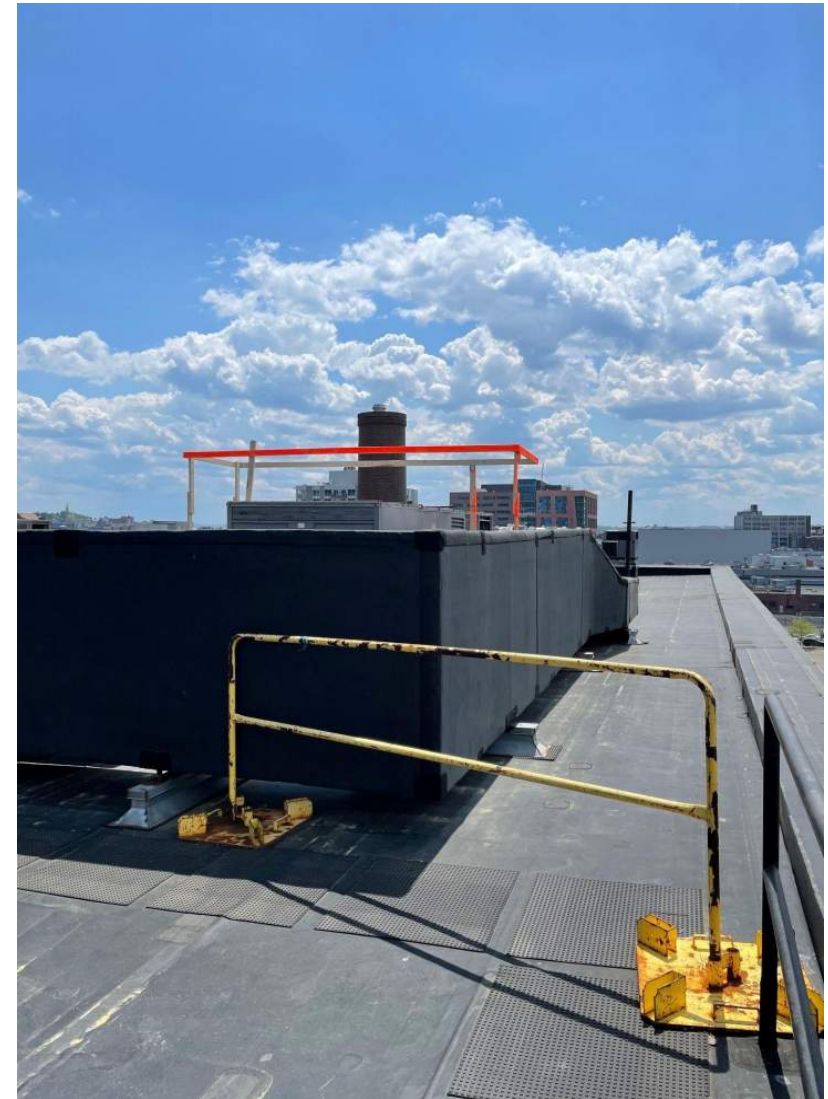
Proposed Location
View from Summer Street Bridge



Proposed Location
View from Summer Street Bridge (Zoom 5x)



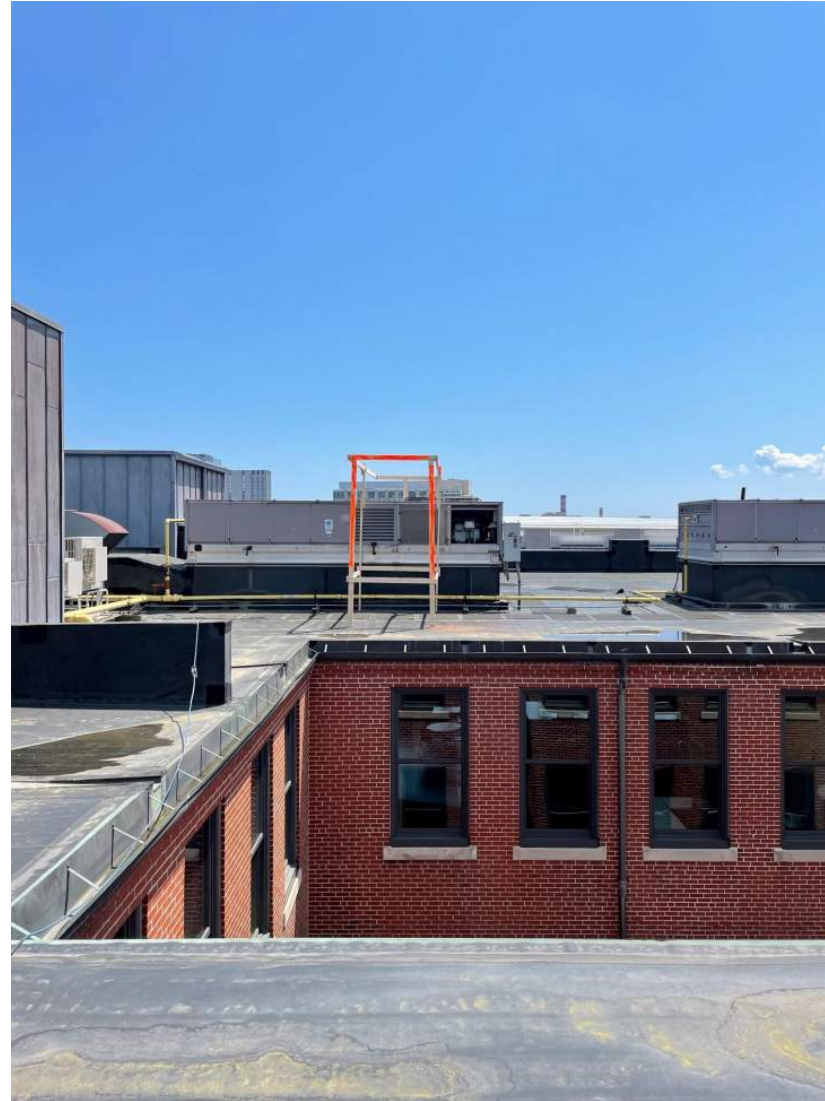
ROOFTOP UNITS: ROOFTOP EQUIPMENT MOCKUP



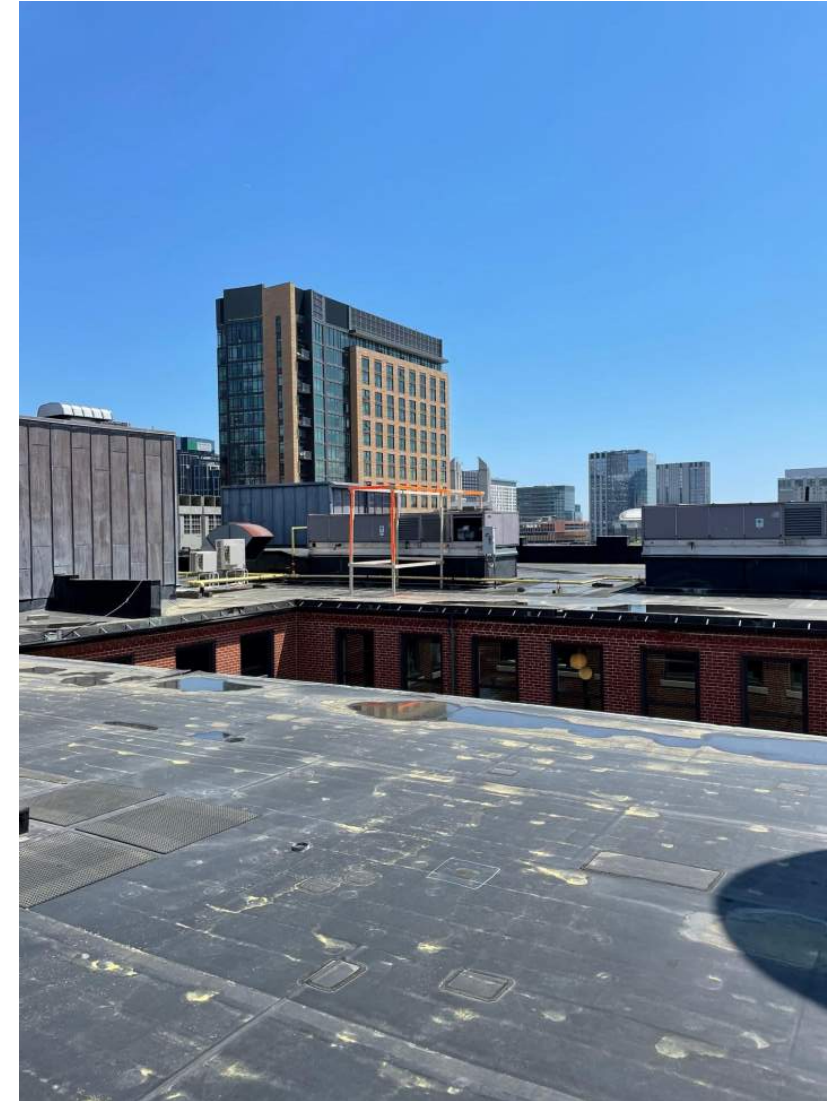
UNIT 1



ROOFTOP UNITS: ROOFTOP EQUIPMENT MOCKUP



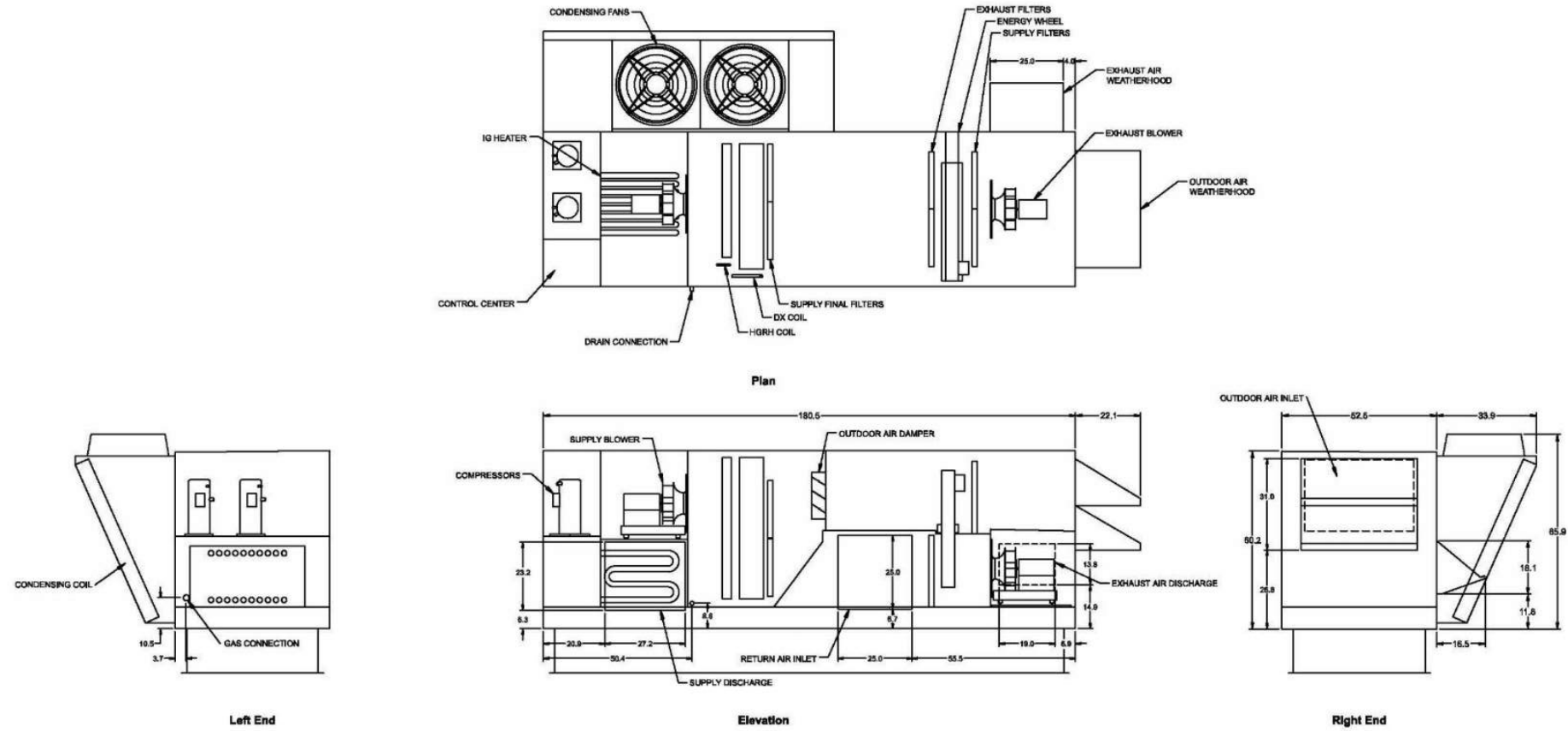
UNIT 2



ROOFTOP UNITS: ROOFTOP EQUIPMENT MOCKUP

PremiSys[®] Model: MPE-1-W2-4C-090 **MITSUBISHI ELECTRIC**
COOLING & HEATING

OVERVIEW DRAWINGS



ROOFTOP UNITS: PROPOSED ROOFTOP EQUIPMENT CHANGES - CUTSHEET

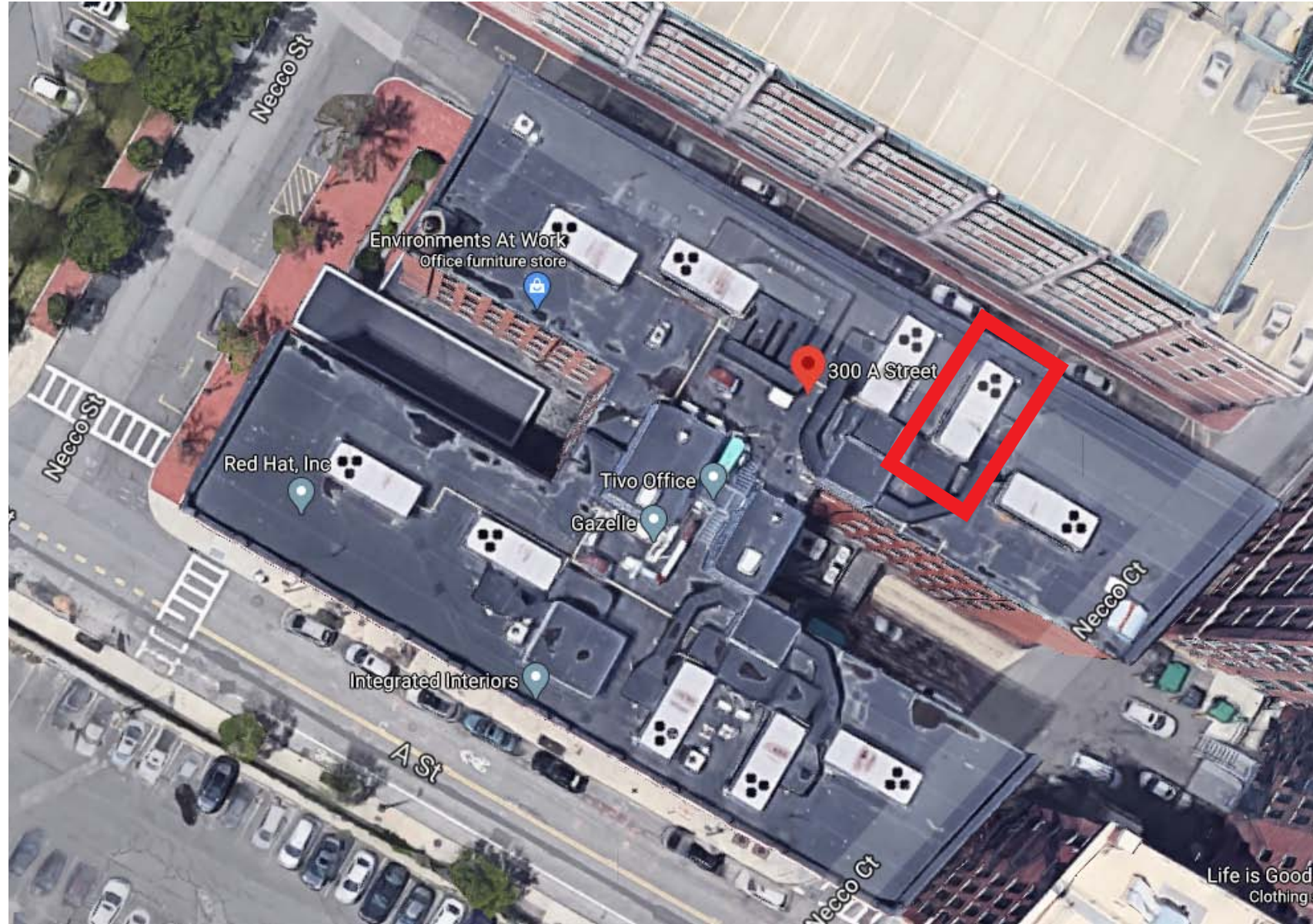


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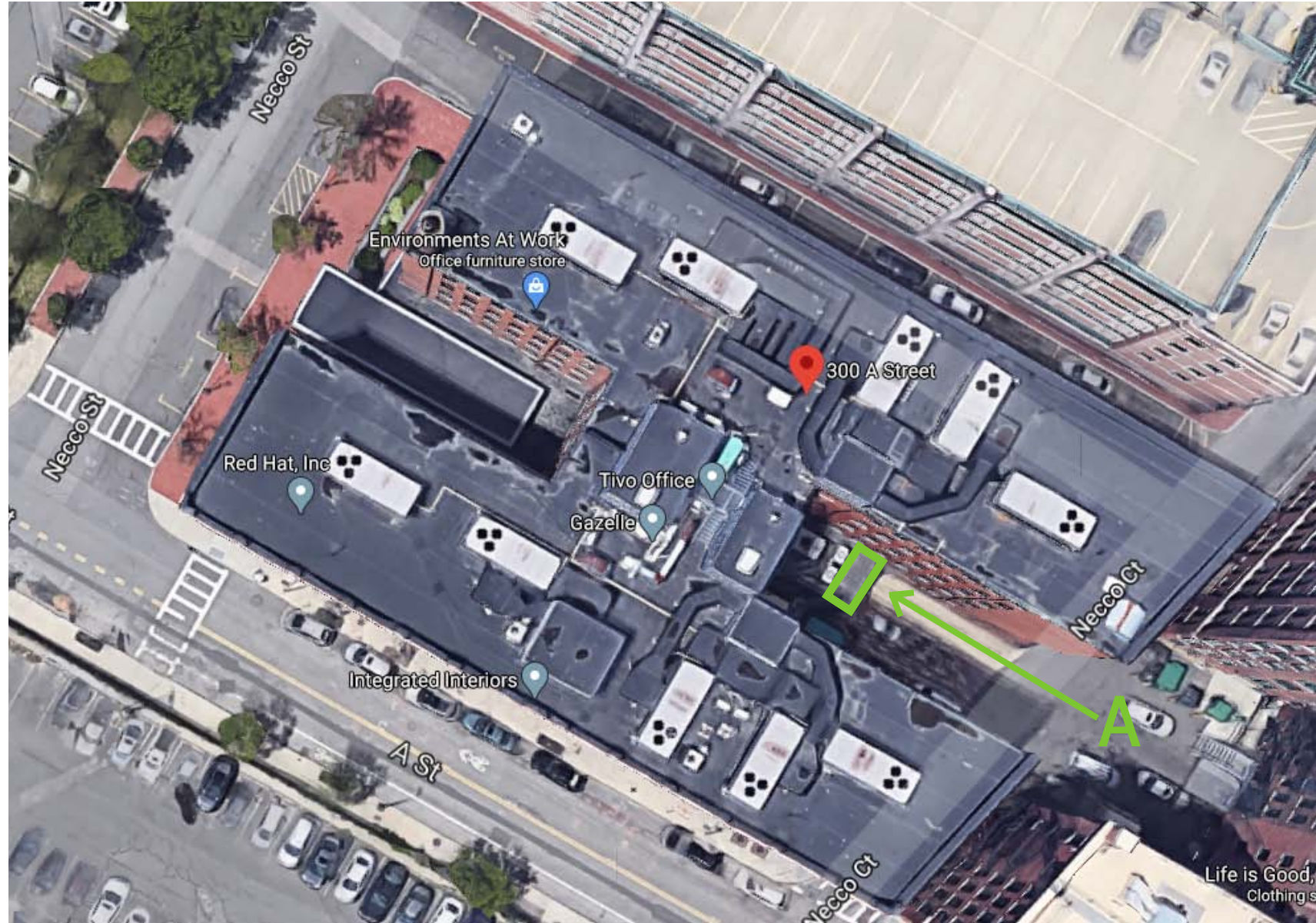
SECTION 02
—
LOADING DOCK UNITS



LOADING DOCK: EXISTING CONDITIONS IMAGES



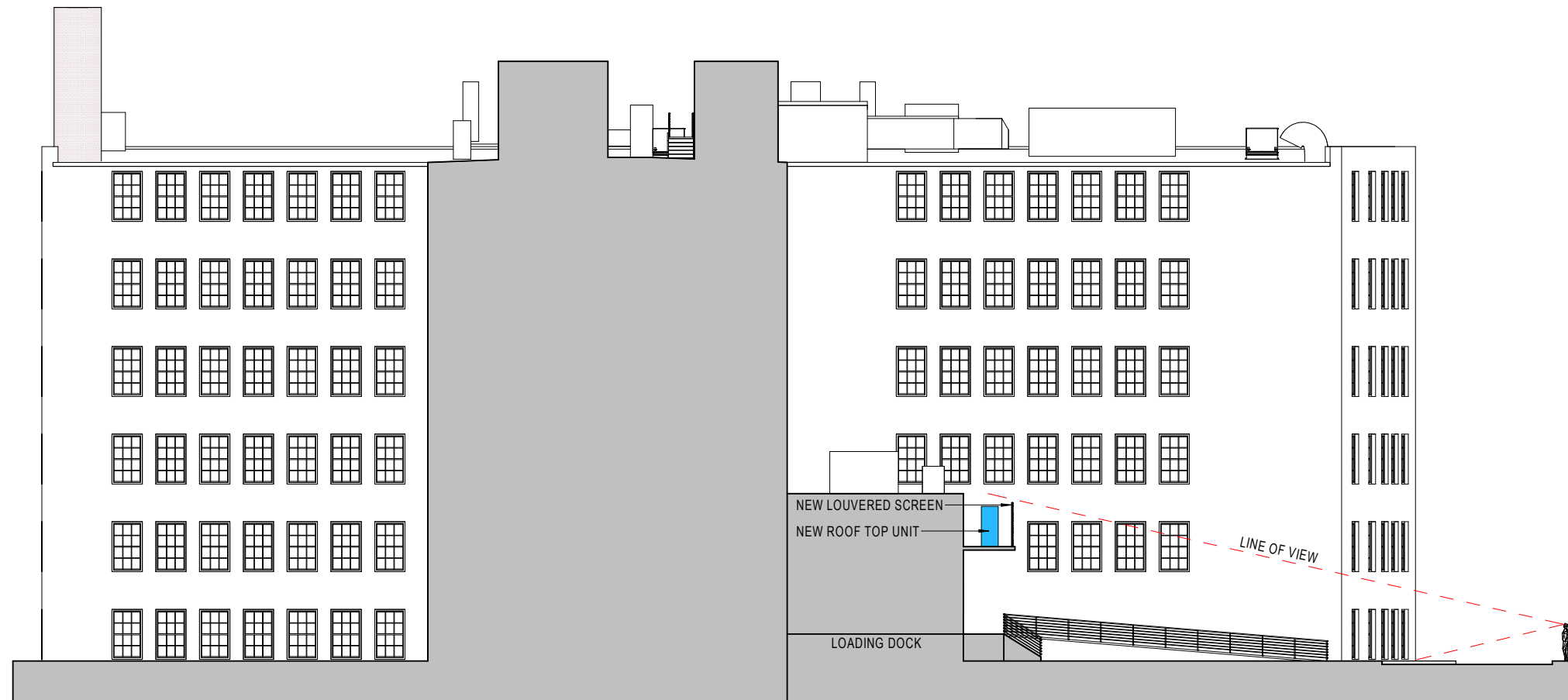
LOADING DOCK UNIT: CURRENT LOCATION SITE MAP



LOADING DOCK UNIT: PROPOSED EQUIPMENT REPLACEMENT



LOADING DOCK UNIT: CURRENT LOCATION EXISTING CONDITIONS IMAGES



LOADING DOCK: VIEWING ANGLE (NOT TO SCALE)

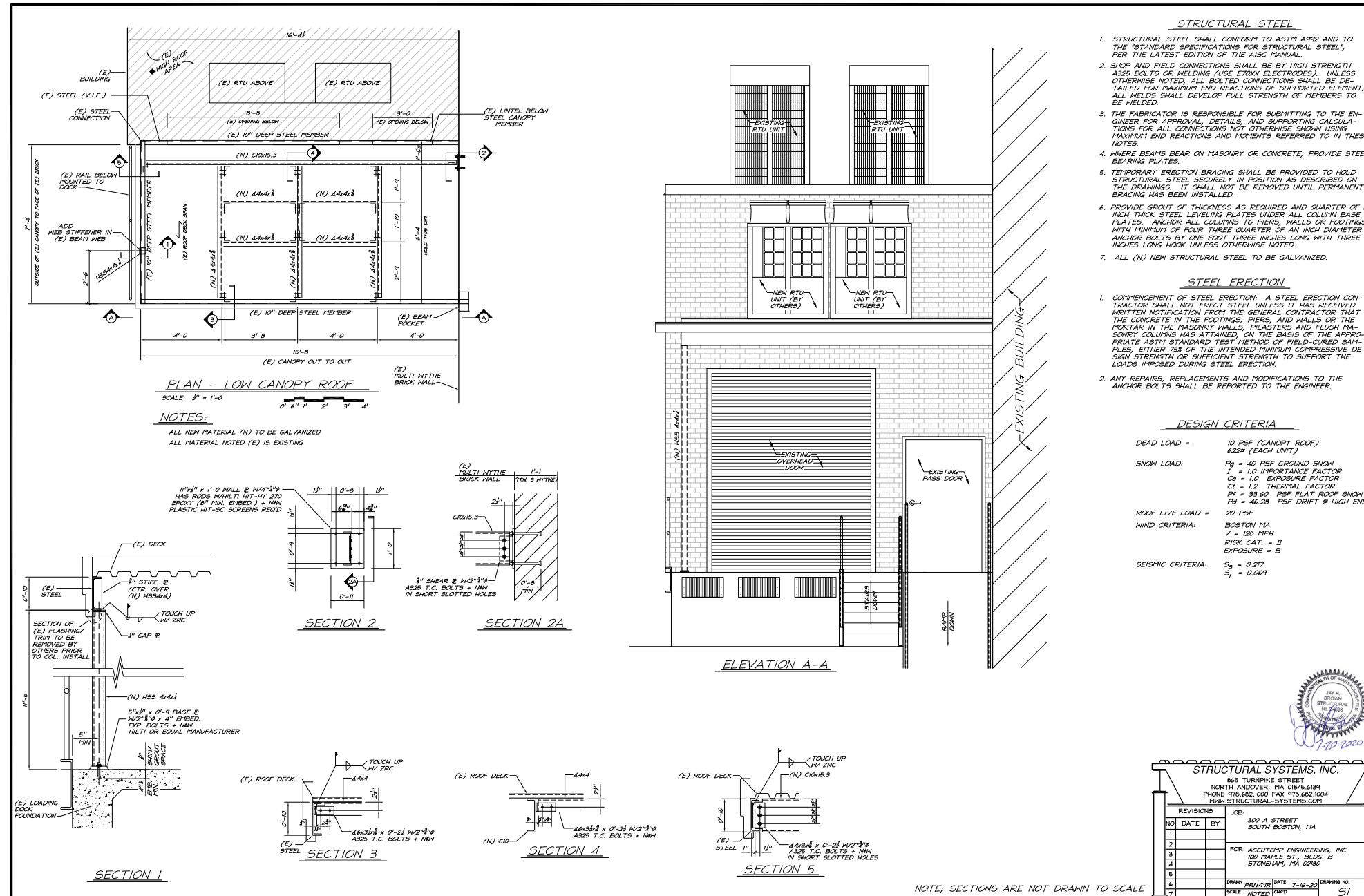


EXISTING CONDITION

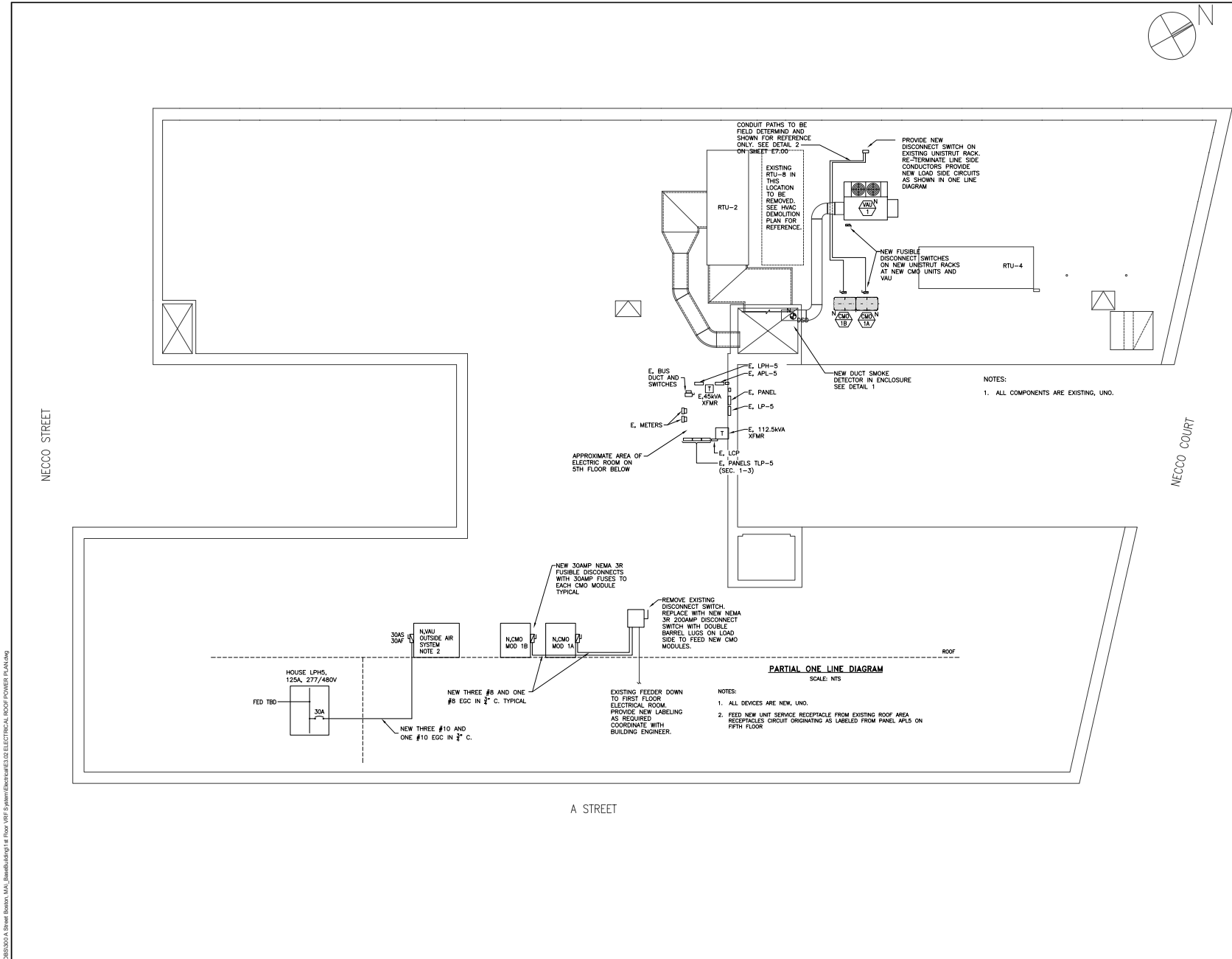


PROPOSED SCREEN

LOADING DOCK: PERSPECTIVE VIEW



LOADING DOCK UNIT: STRUCTURAL DETAILS (NOT TO SCALE)



Commercial Construction Consulting, Inc.
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 617.330.9383 fax
 info@ccsboston.com
 Consulting Engineers/Construction Managers

ADDENDUMS

No.	Date	Description	By

1ST FLOOR VRF SYSTEM
 300 A STREET, BOSTON
 MA

Project

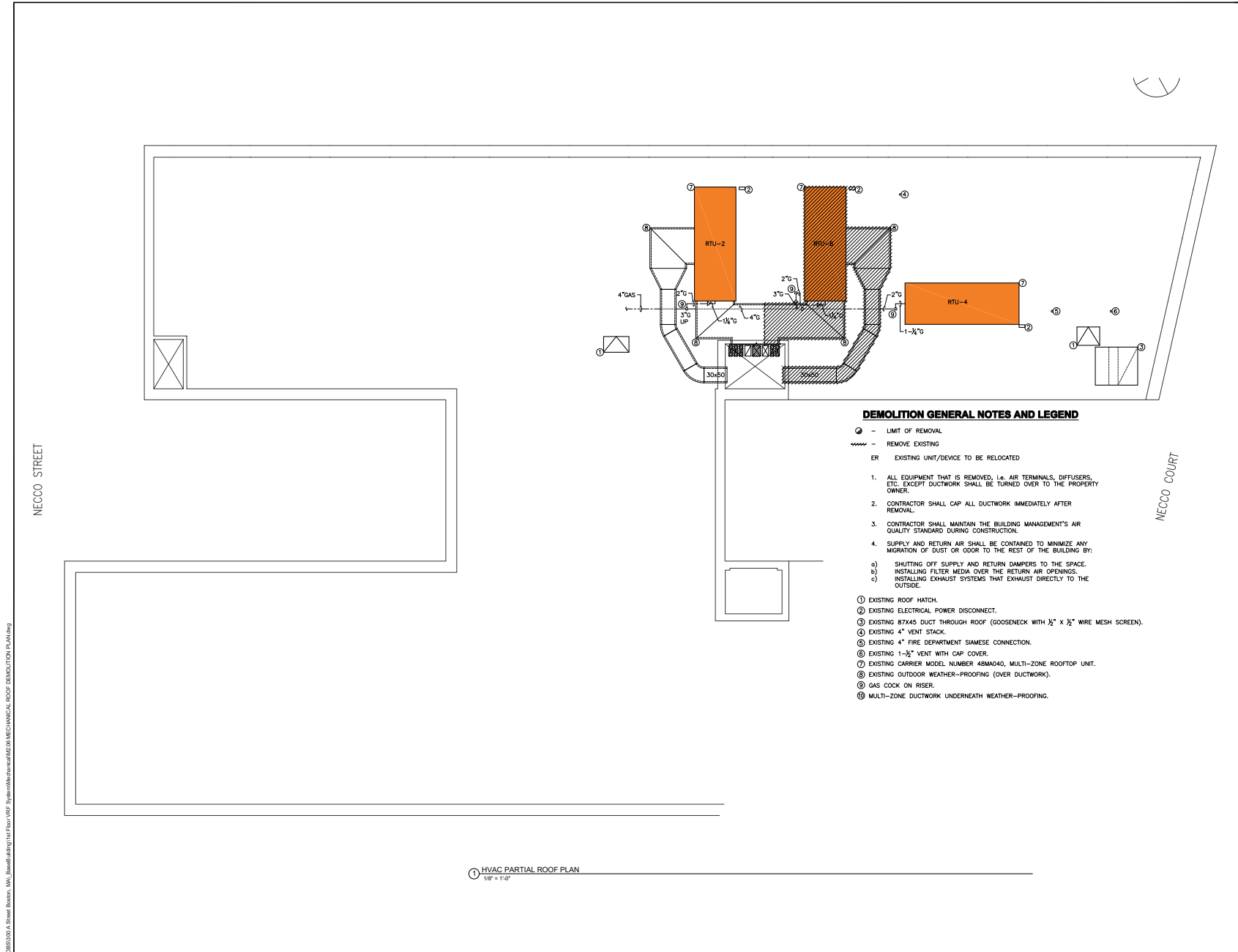
ELECTRICAL
 ROOF POWER PLAN

Drawing Title

Project No. 21772	Checked SB	Date 12/6/2019
Drawn SB	Approved SB	Scale 1/8" = 1' 0"
Drawing No. E3.02		

LOADING DOCK UNIT: ELECTRICAL ROOF POWER PLAN (NOT TO SCALE)

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ADDENDUMS

No.	Date	Description	By

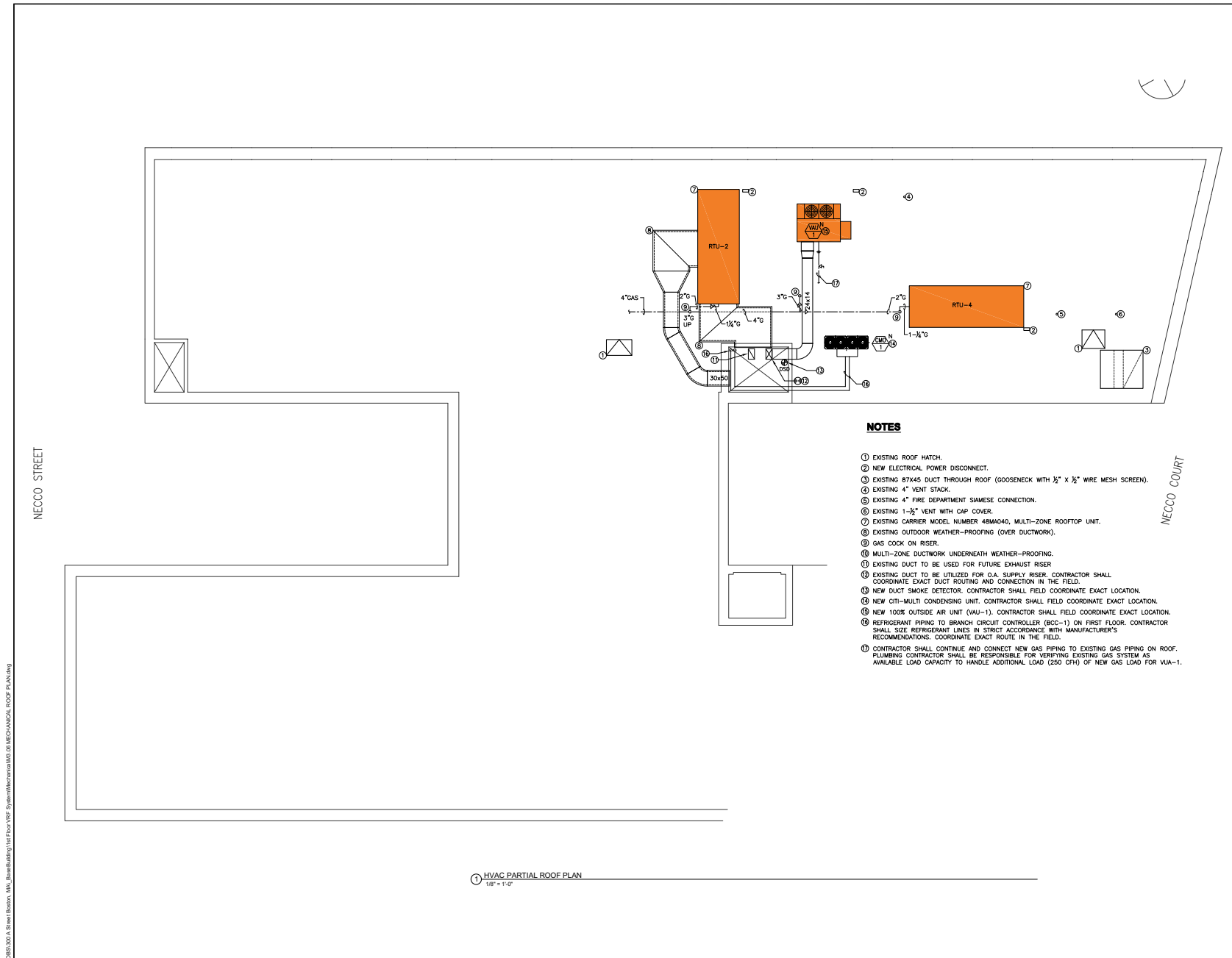
1ST FLOOR VRF SYSTEM
300 A STREET, BOSTON
MA

MECHANICAL
ROOF DEMOLITION
PLAN

Project No. 21772 Checked BSK Date 12/8/2019
 Drawn ZDA Approved MWF Scale 1/8" = 1' 0"
 Drawing No. M2.06

LOADING DOCK UNIT: MECHANICAL ROOF DEMOLITION PLAN (NOT TO SCALE)

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- NOTES**
- 1 EXISTING ROOF HATCH.
 - 2 NEW ELECTRICAL POWER DISCONNECT.
 - 3 EXISTING 87X45 DUCT THROUGH ROOF (GOOSENECK WITH 1/2" X 1/2" WIRE MESH SCREEN).
 - 4 EXISTING 4" VENT STACK.
 - 5 EXISTING 4" FIRE DEPARTMENT SIAMESE CONNECTION.
 - 6 EXISTING 1-1/2" VENT WITH CAP COVER.
 - 7 EXISTING CARRIER MODEL NUMBER 4BMA040, MULTI-ZONE ROOFTOP UNIT.
 - 8 EXISTING OUTDOOR WEATHER-PROOFING (OVER DUCTWORK).
 - 9 GAS COCK ON RISER.
 - 10 MULTI-ZONE DUCTWORK UNDERNEATH WEATHER-PROOFING.
 - 11 EXISTING DUCT TO BE USED FOR FUTURE EXHAUST RISER.
 - 12 EXISTING DUCT TO BE UTILIZED FOR O.A. SUPPLY RISER. CONTRACTOR SHALL COORDINATE EXACT DUCT ROUTING AND CONNECTION IN THE FIELD.
 - 13 NEW DUCT SMOKE DETECTOR. CONTRACTOR SHALL FIELD COORDINATE EXACT LOCATION.
 - 14 NEW CTH-MULTI CONDENSING UNIT. CONTRACTOR SHALL FIELD COORDINATE EXACT LOCATION.
 - 15 NEW 100% OUTSIDE AIR UNIT (VUA-1). CONTRACTOR SHALL FIELD COORDINATE EXACT LOCATION.
 - 16 REFRIGERANT PIPING TO BRANCH CIRCUIT CONTROLLER (BCC-1) ON FIRST FLOOR. CONTRACTOR SHALL SIZE REFRIGERANT LINES IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. COORDINATE EXACT ROUTE IN THE FIELD.
 - 17 CONTRACTOR SHALL CONTINUE AND CONNECT NEW GAS PIPING TO EXISTING GAS PIPING ON ROOF. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING GAS SYSTEM AS AVAILABLE LOAD CAPACITY TO HANDLE ADDITIONAL LOAD (250 CFH) OF NEW GAS LOAD FOR VUA-1.

ADDENDUMS			
No.	Date	Description	By

1ST FLOOR VRF SYSTEM
 300 A STREET, BOSTON
 MA

MECHANICAL
 ROOF PLAN

Project No. 21772	Checked BSK	Date 12/8/2019
Drawn ZDA	Approved MVF	Scale 1/8" = 1' 0"

Drawing No.

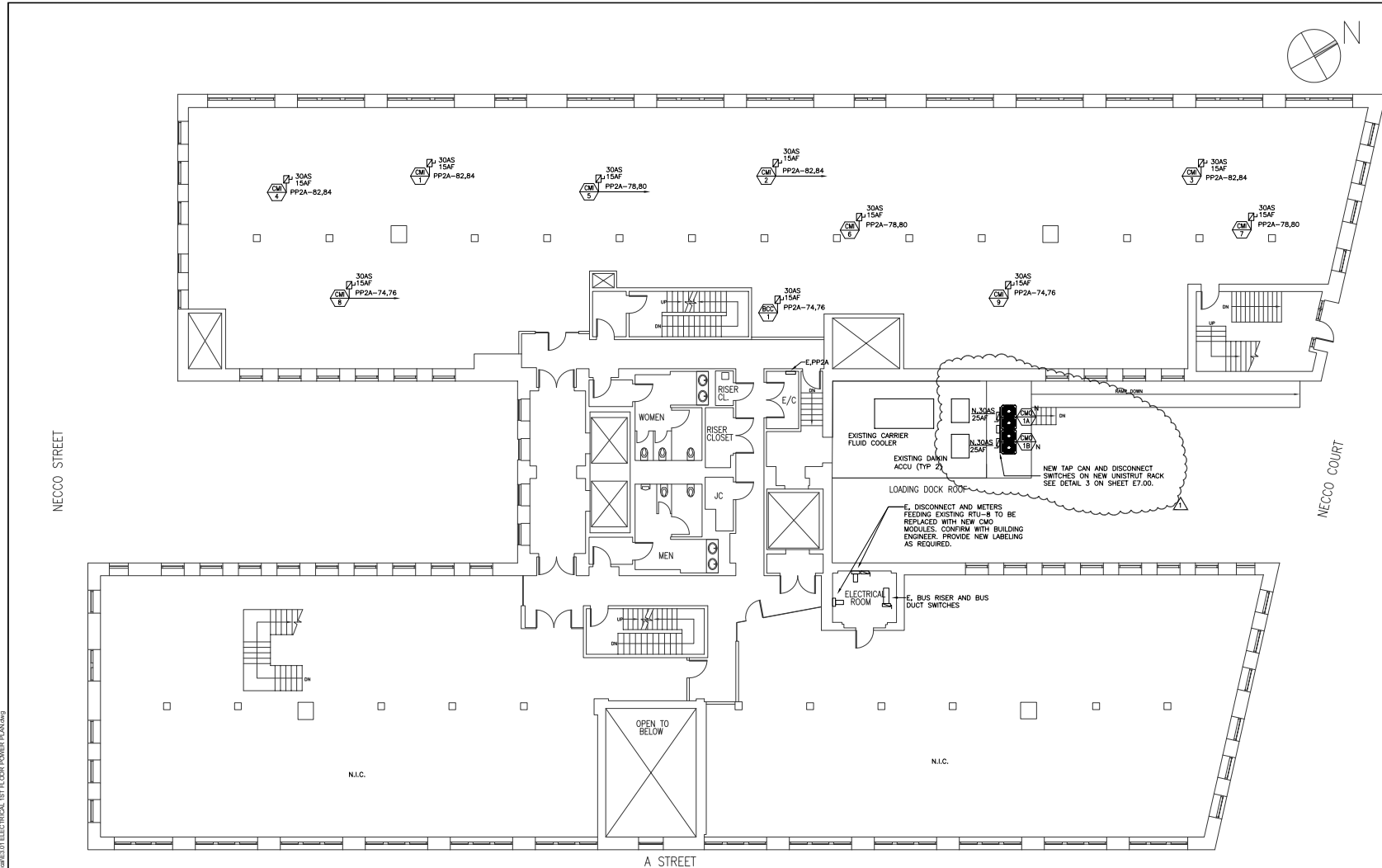
M3.06

HVAC PARTIAL ROOF PLAN
 1/8" = 1'-0"

LOADING DOCK UNIT: MECHANICAL ROOF PLAN (NOT TO SCALE)



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- NOTES:
1. ALL COMPONENTS ARE NEW, UNO.
 2. PROVIDE NEW 2P, 20AMP BRANCH CIRCUIT BREAKERS IN PANEL PP2A TO FEED NEW FAN UNITS. CONFIRM AND COORDINATE WITH BUILDING ENGINEER PROVIDE NEW LABELING AND PANEL SCHEDULES AS REQUIRED.

ADDENDUMS			
No.	Date	Description	By
1	9/8/20	CMO-1 Landlord Relocation	

1ST FLOOR VRF SYSTEM
 300 A STREET, BOSTON
 MA

Project

ELECTRICAL
 1ST FLOOR POWER
 PLAN

Drawing Title

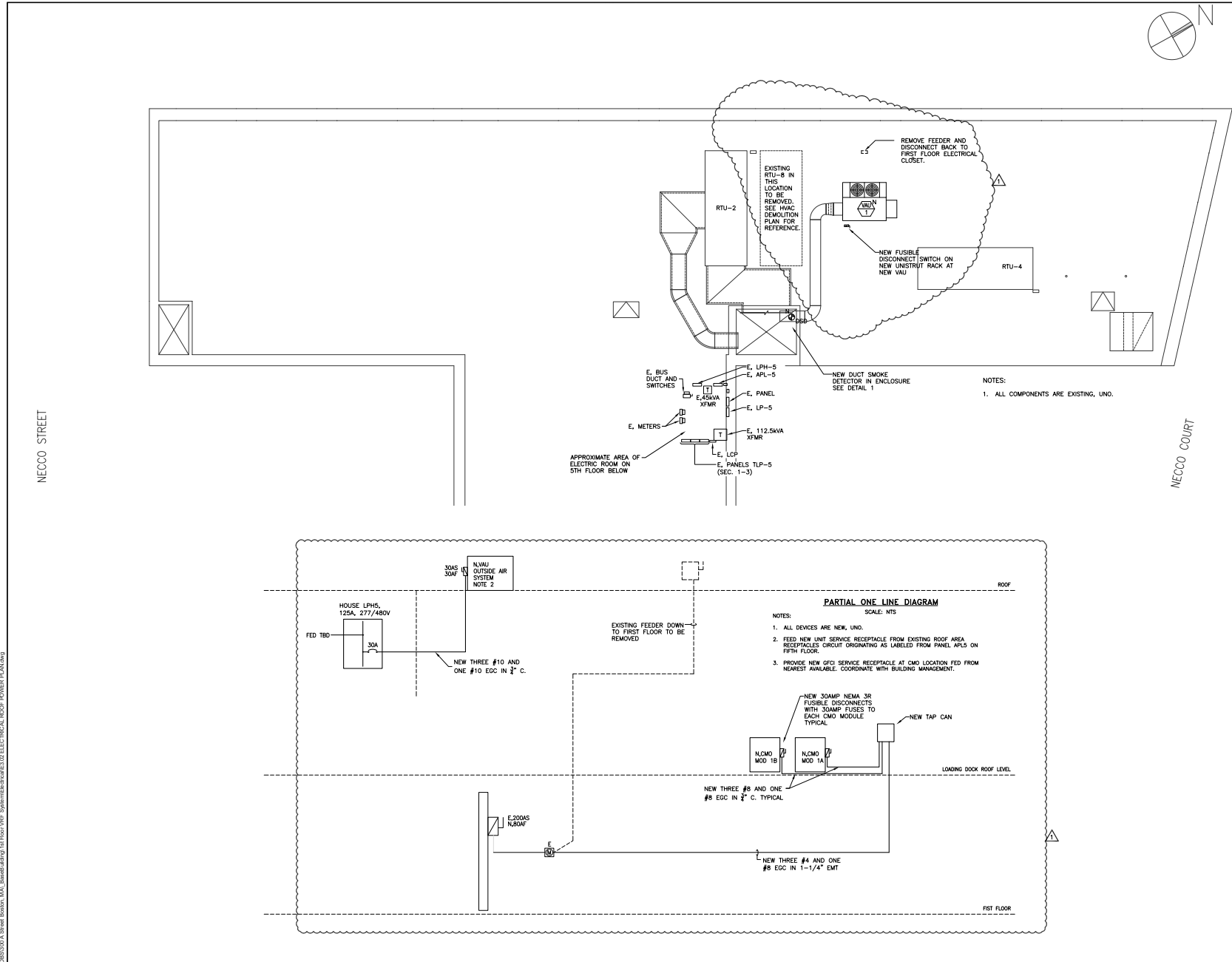
Project No. 21772	Checked SB	Date 12/6/2019
Drawn SB	Approved SB	Scale 1/8" = 1' 0"

Drawing No.

E3.01

LOADING DOCK UNIT: ELECTRICAL 1ST FLOOR POWER PLAN (NOT TO SCALE)

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ADDENDUMS

No.	Date	Description	By
1	9/8/20	CMO-1 Landlord Relocation	

1ST FLOOR VRF SYSTEM
 300 A STREET, BOSTON
 MA

ELECTRICAL
 ROOF POWER PLAN

Project No. 21772	Checked SB	Date 12/8/2019
Drawn SB	Approved SB	Scale 1/8" = 1' 0"

Drawing No.
E3.02

LOADING DOCK UNIT: ELECTRICAL ROOF POWER PLAN (NOT TO SCALE)

CITYMULTI®

Outdoor Unit: 20-TON PURY-EP240YSNU-A (-BS)
(Consists of Two PURY-EP120YNU-A (-BS) and One CMY-R200NCBK Twinning Kit)



Job Name:
System Reference:

Date:



OUTDOOR VRF HEAT PUMP WITH HEAT RECOVERY SYSTEM

UNIT OPTION

- Standard Model PURY-EP240YSNU-A
- Seacoast (BS) Model PURY-EP240YSNU-A-BS

ACCESSORIES

- Twinning Kit (required) CMY-R200NCBK
- Joint Kit for details see Pipe Accessories Submittal
- BC Controller (required) for details see BC Controller Submittal
- Low Ambient Kit for details see Low Ambient Kit Submittal
- Snow/Hail Guards Kit for details see Snow/Hail Guards Kit Submittal
- Panel Heater Kit for details see Panel Heater Kit Submittal

Specifications		System	Module 1	Module 2
Unit Type		PURY-EP240YSNU-A (-BS)	PURY-EP120YNU-A (-BS)	PURY-EP120YNU-A (-BS)
Nominal Cooling Capacity	Btu/h	240,000	120,000	120,000
Nominal Heating Capacity	Btu/h	270,000	135,000	135,000
Guaranteed Operating Range *1	Cooling (Outdoor) *2	Refer to Module Data	23~128°F (-5~52°C)	
	Heating (Outdoor) *3		-13~60°F (-25~15.5°C)	
Extended Operating Range *4	Cooling (Outdoor)	Refer to Module Data	-25~60°F (-31.5~15.5°C)	
	Heating (Outdoor)			
External Dimensions (H x W x D)	In. (mm)	Refer to Module Data	71-5/8 x 48-7/8 x 29-5/32 (1,818 x 1,240 x 740)	71-5/8 x 48-7/8 x 29-5/32 (1,818 x 1,240 x 740)
Net Weight	Lbs. (kg)	1314 (596)	657 (298)	657 (298)
External Finish		Refer to Module Data	Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>	
Electrical Power Requirements	Voltage, Phase, Hertz	Refer to Module Data	3-phase 3-wire 460 V ±10% 60 Hz	
Minimum Circuit Ampacity (MCA)	A		19	19
Maximum Overcurrent Protection (MOP)	A		30	30
Recommended Fuse Size	A		30	30
Recommended Minimum Wire Size	AWG (mm)		10 (5.3)	10 (5.3)
Short-circuit Current Rating (SCCR)	kA		5	5
Piping Diameter (Brazed) (In. / mm)	Liquid (High Pressure)	7/8 (22.2) Brazed (1-1/8 (28.58) Brazed for the part that exceeds 65 m)		
	Gas (Low Pressure)	1-3/8 (34.93) Brazed		
Max. Total Refrigerant Line Length	FL	3,836	Refer to System Data	
Max. Refrigerant Line Length (Between ODU & IDU)	FL	541		
Max. Control Wiring Length	FL	1,640		
Indoor Unit	Total Capacity	50~150% of outdoor unit capacity	Refer to System Data	
	Model / Quantity	P05~P96/2~50		
Sound Pressure Levels	dB(A)	63.0/65.0	Refer to System Data	
Sound Power Levels	dB(A)	83.0/83.5		
Fan	Type x Quantity	Refer to Module Data	Propeller fan x 2	Propeller fan x 2
	Airflow Rate		CFM	8,300
	External Static Pressure	In. WG	Selectable, 0, 0.12, 0.24, 0.32 in.WG; factory set to 0 in.WG	
Compressor Operating Range		7.5% to 100%	Refer to System Data	
Compressor Type x Quantity		Refer to Module Data	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1
Refrigerant		Refer to Module Data	R410A 17 lbs + 10 oz (8.0 kg)	R410A 17 lbs + 10 oz (8.0 kg)
Protection Devices	High Pressure	Refer to Module Data	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter Circuit (Comp. / Fan)		Over-heat protection, Over-current protection	
	Fan Motor		Over-current protection	
AHRI Ratings (Ducted/Non-Ducted)	EER	11.7 / 12.2	Refer to System Data	
	IEER	23.9 / 27.4		
	COP	3.46 / 3.58		
	SCHE	22.9 / 26.8		

NOTES:
Nominal cooling conditions (Test conditions are based on AHRI 1230) Indoor: 80°F DB, 67°F WB, (26.7°C DB, 19.4°C WB), Outdoor: 95°F DB, (35°C DB.)
Nominal heating conditions (Test conditions are based on AHRI 1230) Indoor: 70°F DB, (21.1°C DB), Outdoor: 47°F DB, 43°F WB, (8.3°C DB, 1°C WB.)
*1 Each individual module requires a separate electrical connection. Refer to electrical data for each individual module.

- Harsh weather environments may demand performance enhancing equipment. Ask your Mitsubishi Electric representative for more details about your region.
- For details on extended cooling operation range down to -10° F DB, see Low Ambient Kit Submittal.
- When applying product below -4° F, consult your design engineer for cold climate application best practices, including the use of a backup source for heating.
- Unit will continue to operate in extended operating range, but capacity is not guaranteed.

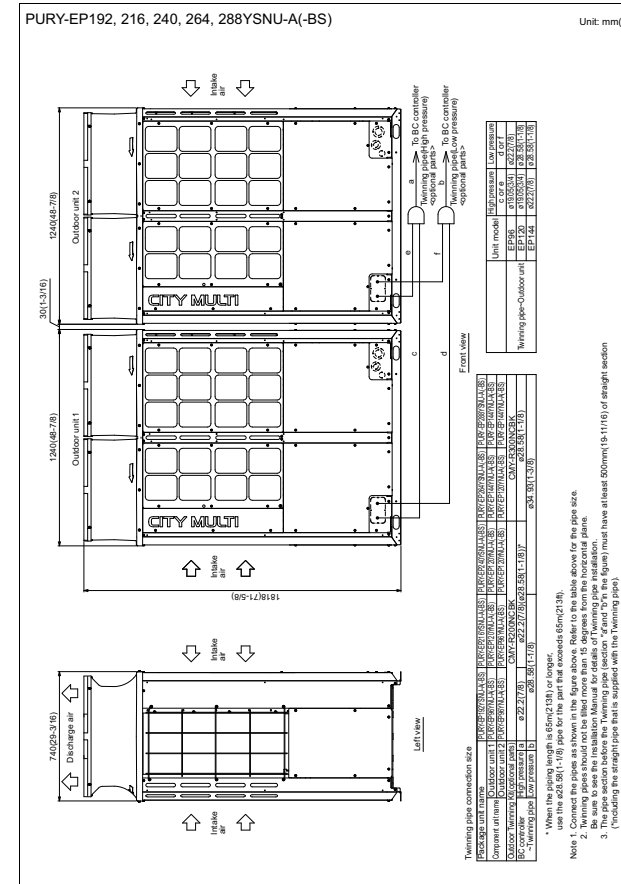
Specifications are subject to change without notice.

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Outdoor Unit: PURY-EP240YSNU-A (-BS) – DIMENSIONS

2. EXTERNAL DIMENSIONS

R2-Series (High efficiency)



- NOTES:
- SEACOAST PROTECTION
 - Anti-corrosion Protection: A coating treatment is applied to condenser coil for protection from air contaminants.
 - Standard: Salt Spray Test Method - no unusual rust development to 480 hours.
 - Sea Coast (BS): Salt Spray Test Method (JRA 9002) - no unusual rust development to 960 hours.

Specifications are subject to change without notice.

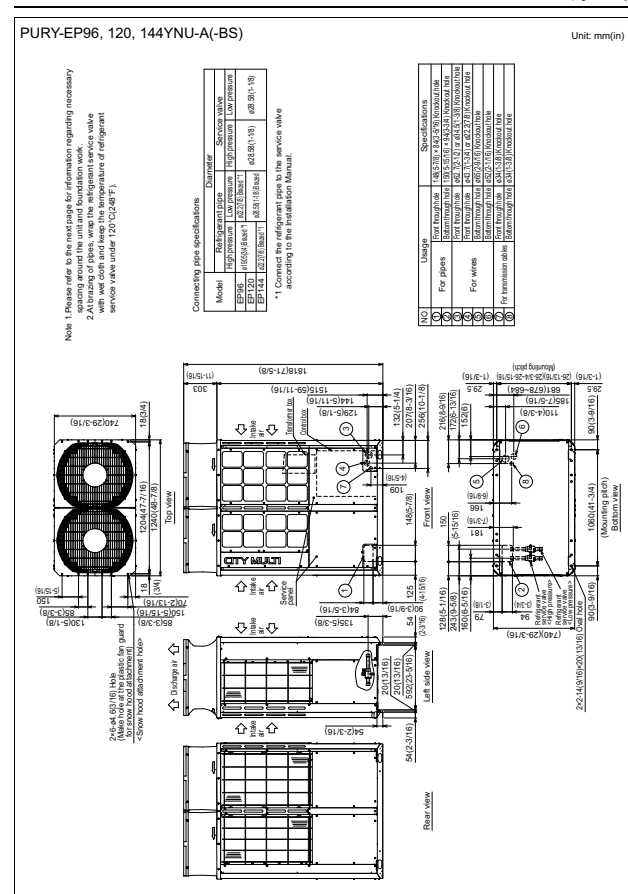
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LOADING DOCK UNIT: CUTSHEETS

Modules 1 and 2: PURY-EP120YNU-A (-BS) – DIMENSIONS

Twinning Kit: CMY-R200NCBK

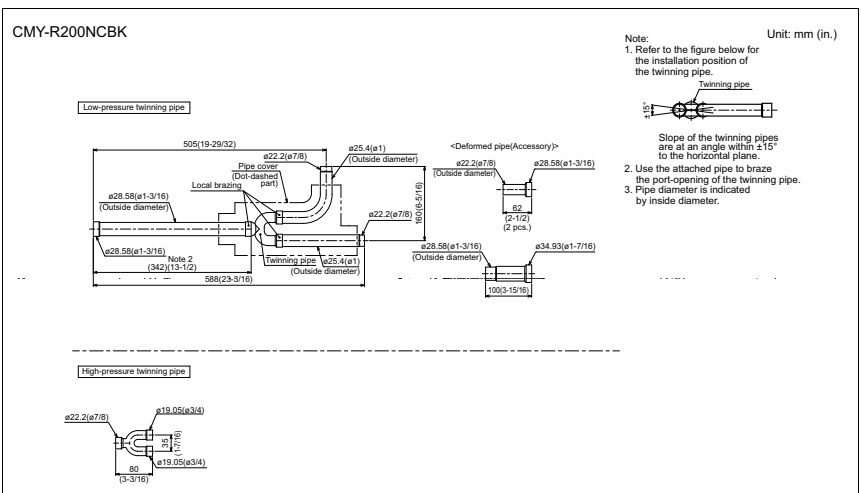
2. EXTERNAL DIMENSIONS



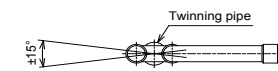
NOTES:
 SEACOAST PROTECTION
 • Anti-corrosion Protection: A coating treatment is applied to condenser coil for protection from air contaminants.
 • Standard: Salt Spray Test Method - no unusual rust development to 480 hours.
 • Sea Coast (BS): Salt Spray Test Method (JRA 9002) - no unusual rust development to 960 hours.

Specifications are subject to change without notice.

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Note 1. Reference the attitude angle of the twinning pipe below the fig.



- The angle of the twinning pipe is within $\pm 15^\circ$ against the horizontal plane.
- Use the attached pipe to braze the port-opening of the twinning pipe.
- Pipe diameter is indicated by inside diameter.
- Only use the Twinning pipe by Mitsubishi (optional parts).

FORM# PUHY-EP96TNU-A (-BS) - 201907

Specifications are subject to change without notice.

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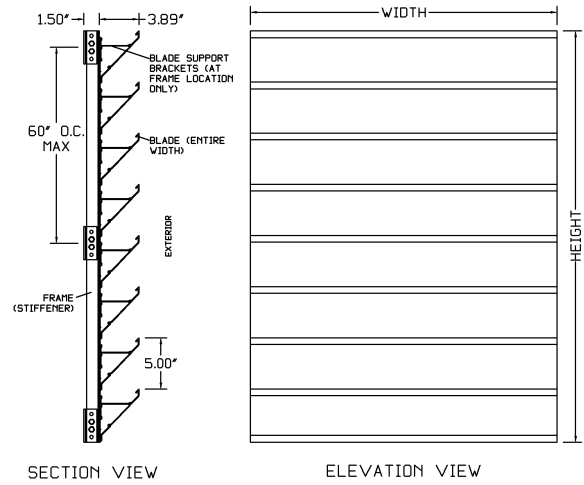


COOLING & HEATING
 1340 Satellite Boulevard, Suwanee, GA 30024
 Toll Free: 800-433-4822 www.mehvac.com



LOADING DOCK UNIT: CUTSHEETS

V4JS - 4" DEEP 45 DEGREE INVERTED J BLADE EXTRUDED ALUMINUM LOUVERED EQUIPMENT SCREEN



BLADE - 0.081" THICKNESS TYPE 6063-T5 EXTRUDED ALUMINUM
 FRAME - CONCEALED 0.125" THICKNESS TYPE 6063-T5 EXTRUDED ALUMINUM
 DESIGNED FOR 30 PSF WIND LOAD
 SIZES 12" WIDE X 12" HIGH UP TO UNLIMITED SIZE AVAILABLE

OPTIONS:
 HIGHER WIND LOAD RATINGS
 ARCHITECTURAL FINISHES
 HINGED SINGLE AND DOUBLE DOORS

NOTE:
 STRUCTURAL FRAMING TO SUPPORTING STRUCTURE (ROOF DECK, WALLS, CONCRETE PAD, ETC.) BY OTHERS. STRUCTURAL FRAMING IS REQUIRED FOR ATTACHMENT POINTS EVERY 60" OF WIDTH AND HEIGHT TO MEET 30 PSF WIND LOAD.

<p>END PANEL</p>	<p>BLADE STIFFENER</p>	<p>VERTICAL MULLION (MULTIPLE PANELS WIDE)</p>	<p>MITERED OUTSIDE CORNER</p>
<p>TYPICAL MOUNTING (VERTICAL MULLION SHOWN)</p>		<p>HORIZONTAL MULLION (MULTIPLE PANELS HIGH)</p>	
<p>ARCHITECTURAL LOUVERS 266 W Mitchell Ave - Cincinnati, OH 45232 PH: (888) 568-8371 Fax: (888) 568-8370</p>		<p>PROJECT</p> <p>CONTRACTOR</p> <p>ARCHITECT</p>	<p>DRAWN BY: JRR DATE: 01/2012</p> <p>DRAWING TYPE: TECHNICAL SHEET DRAWING TITLE: V4JS</p>

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LOADING DOCK UNIT: NEW LOUVERED SCREEN DETAIL

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