BUILDING EXPANSION AND SECOND FLOOR ADDITION

483 BROADWAY, SOMERVILLE MA 02145





PROPOSED BUILDING.

EXISTING BUILDING

LOCUS MAP



SITE AERIAL



GENERAL NOTES:

- 1. THE CONTRACTOR OR OWNER IS RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL PERMITS REQUIRED FOR THIS PROJECT.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE COMMONWEALTH OF CURRENT MASSACHUSETTS STATE BUILDING CODE (IBC 2015, 780 CMR 9TH EDITION) AND OTHER APPLICABLE CODES.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, SEQUENCING, SCHEDULING AND SAFETY FOR THIS PROJECT.
- DIMENSIONS ARE NOT GUARANTEE, THE CONTRACTOR SHOULD VERIFY ALL DRAWING DIMENSIONS BEFORE PERFORM WORK.
- THE CONTRACTOR SHALL WARRANTEE HIS WORK FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL COMPLETION.
- THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES BETWEEN DRAWINGS SPECIFICATIONS OR FIELD CONDITIONS TO T DESIGN IMMEDIATELY.
- 7. CONCRETE AND REBAR STRENGTH SHALL HAVE MINIMUM OF 3,000 PSI AND 60,000 PSI RESPECTIVELY
- 8. NEW WINDOW MUST HAS DOUBLE PANE AND U FACTOR = 0.27



71B CLINTON ST Malden, MA 02148 Tel: 617 318-6056

483 BROADWAY - SOMERVILLE, MA 02145

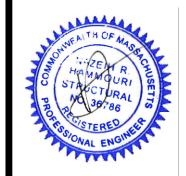
CLIENT

JOHN WOOD

PROJECT TEAM

Architect Nathália Quirino Engineer Nazieh R. Hammouri (857) 312-9212

No.	Description	Date
00	Issued for permit	12/10/2020
01	Issued for permit	04/19/2021
02	Issued for permit	10/05/2021



DRAWING TITLE

COVER SHEET

DRAWING INFORMATION

April 18, 2021

DATE OF ISSUE

Issued for permit.

DESCRIPTION

S/ SCALE

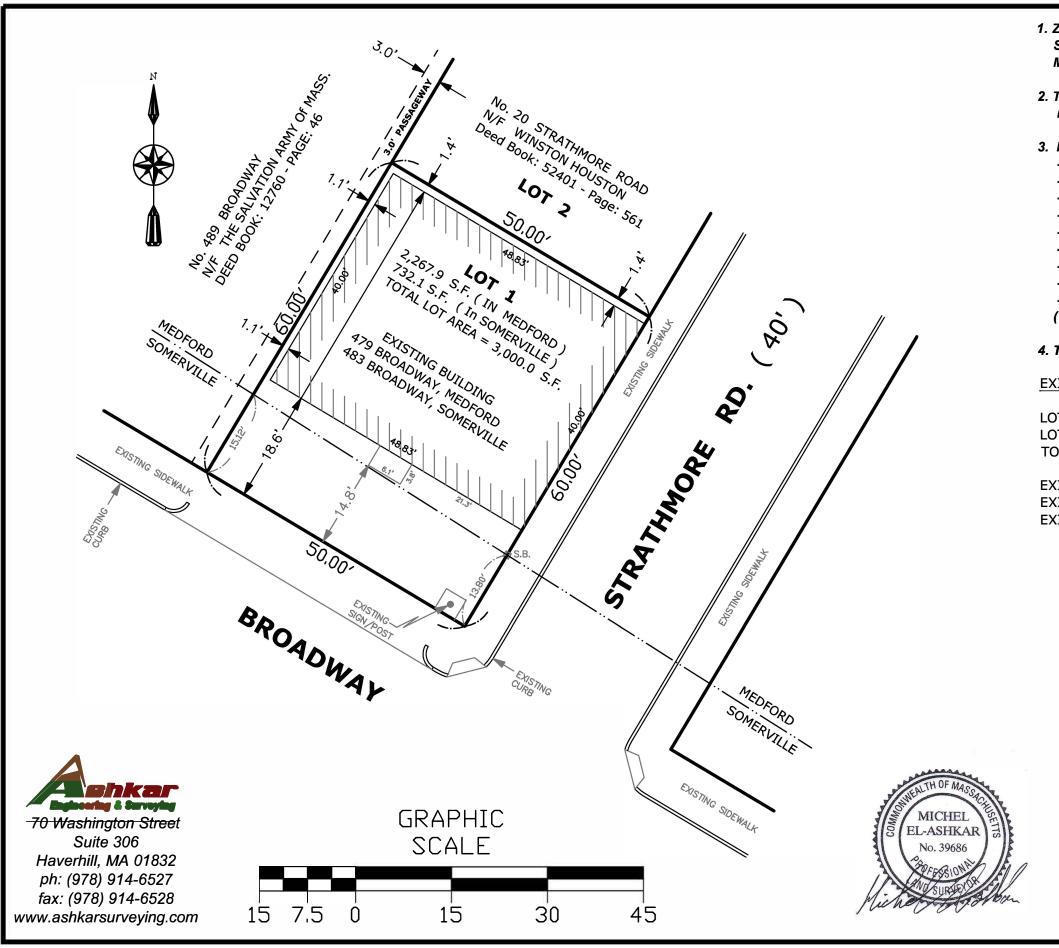
Nathalia Quirino

DRAWN BY

479J 479J
PROJECT # FILE NAME

DRAWING NUMBER

A100



- 1. Zoning Districts SOMERVILLE: NB MEDFORD: APT 2
- 2. The purpose of this plan is to show the results of a field retracement survey.
- 3. REFERENCES USED:
 - Assessor's Parcel ID # 40-A-3 (Somerville)
 - Assessor's Parcel ID # Z-10 / 21 (Medford)
 - Deed Book: 57106 Pages: 422
 - Plan Book: 244 Plan: 23 (Lots # 1)
 - Plan Book: 136 Plan: 13
 - Plan No. 139 of 1931
 - Plan No. 243 of 1940
 - Plan No. 1334 of 1946
 - Plan @ the end of Deed Book: 5131

(Recorded at the Middlesex County S. District Registry of Deeds)

4. THIS PLAN IS BASED ON AN " ON GROUND" SURVEY.

EXISTING

LOT AREA (IN THE CITY OF MEDFORD) = 2,277.0 S.F. LOT AREA (IN THE CITY OF SOMERVILLE) = 723.0 S.F. TOTAL LOT AREA = 3,000.0 S.F.

EXISTING BUILDING FOOTPRINTS: 1,953.2 S.F. EXISTING BUILDING COVERAGE: 65.10 % EXISTING OPEN SPACE: 34.89 %

PLOT PLAN

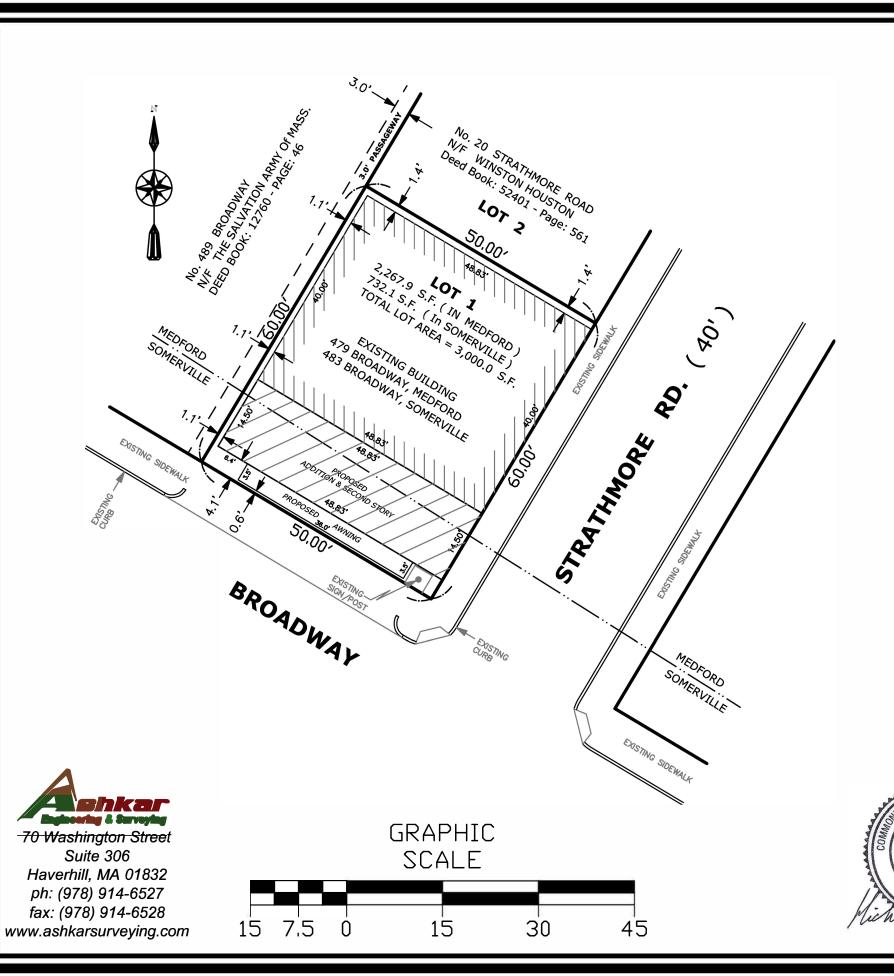
(Showing an existing building)

479 BROADWAY, MEDFORD, MA. 483 BROADWAY, SOMERVILLE, MA

Prepared for: John Wood

Surveyed by: Michel G. El-Ashkar, PLS

Scale: 1"= 15 ft. Date: January 4, 2021



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- 2. The purpose of this plan is to show the results of a field retracement survey.
- 3. REFERENCES USED:
 - Assessor's Parcel ID # 40-A-3 (Somerville)
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EXISTING OPEN SPACE: 34.89 %

PROPOSED

EL-ASHKAF

PROPOSED ADDITION FOOTPRINTS IN SOMERVILLE: 505.11 S.F. PROPOSED ADDITION FOOTPRINTS IN MEDFORD: 202.89 S.F. TOTAL PROPOSED ADDITION FOOTPRINTS: 708.00 S.F.

TOTAL PROPOSED BUILDING COVERAGE: 88.70 % TOTAL PROPOSED OPEN SPACE: 11.29 %

SITE PLAN

(Showing an addition to an existing building)

479 BROADWAY, MEDFORD, MA. 483 BROADWAY, SOMERVILLE, MA

Prepared for: John Wood

Surveyed by: Michel G. El-Ashkar, PLS

Scale: 1"= 15 ft. Date: January 4, 2021

ZONING DATA PER 4.2.8.	a a b LOI OIA	NUARUS & DI	PILDINO F LACE	INIEN I
ZONING DISTRICT - MR4 Mid-Rise 4	ALLOWED/ REQUIRED	EXISTING	PROPOSED	COMPLIANCE
DIMENSIONS				
Lot Width (min)	30'	50'	NO CHANGE	
DEVELOPMENT				
Lot Coverage (max)	90%	-	70%	
Green Score (see Landscape Details)				
Minimum	0.25			
Ideal	0.30			
Open Space (min)	15%		30%	
DING SETBACKS				
Primary Front Setback (min/max) MEDFORD ST. (Pedestrian Street)	2' / 12'	14'-8"	4'-1"	
Secondary Front Setback (min/max) TRULL ST.	2' / 12'		NO CHANGE	
Side Setback (min)				
Abutting any non-NR or -LHD	0'	-		
1st - 3rd Story Abutting-NR or -LHD	10'	-		
4th Story Abutting-NR or -LHD	30'			
Rear Setback (min)				
1st - 3rd Story abutting NR	20'	NA	NA	
KING SETBACKS				
Primary Front Setback (min)				
Surface Parking	30'	14'-8"		
Structured Parking (GARAGE)	30'			
Secondary Front Setback (min)				
Surface Parking	10'			
Structured Parking (GARAGE)	2'			
	DIMENSIONS Lot Width (min) DEVELOPMENT Lot Coverage (max) Green Score (see Landscape Details) Minimum Ideal Open Space (min) DING SETBACKS Primary Front Setback (min/max) MEDFORD ST. (Pedestrian Street) Secondary Front Setback (min/max) TRULL ST. Side Setback (min) Abutting any non-NR or -LHD 1st - 3rd Story Abutting-NR or -LHD Rear Setback (min) 1st - 3rd Story abutting NR KING SETBACKS Primary Front Setback (min) Surface Parking Structured Parking (GARAGE) Secondary Front Setback (min) Surface Parking	DIMENSIONS Secondary Front Setback (min) Surface Parking Sur	DIMENSIONS So' So' DEVELOPMENT	DIMENSIONS DIMENSIONS DIMENSIONS DIMENSIONS DEVELOPMENT Lot Coverage (max) 90% - 70% Green Score (see Landscape Details)

		ALLOWED/			
	ZONING DISTRICT - MR4 Mid-Rise 4	REQUIRED	EXISTING	PROPOSED	COMPLIANCE
MAI	N MASSING				
Α	Building Width (max)	200'		48-10''' x 14'-6'' (Somerville side)	
	Facade Build Out, Primary Front (min)				
	Primary Front	80%(min)		86%	
	Secondary Front	65%(min)		92%	
В	Floor Plate (max)	15,000 sf		505 sf	
С	Ground Story Height (min)	14'	11'-2"	11'-2"	
D	Upper Story (min)	10'		10'	
Е	Number of Stories (min/max)	3 / 4	2.5	2	
F	Building Height, Feet (max)	50'		24'7"	
	Roof Type	Flat		Flat	
Fac	ade Composition				
Α	Ground Story Fenestration (min)	70%	70% (Strathmore F	RD) 72% (Broadway)	CONFORMS
В	Upper Story Fenestration (min / max)	15% / 50%	32% (Broadway)	18% (Strathmore Rd)	
	Blank Wall (max)	20'		20'	
Use	& Occupancy	·			
	Ground Story Entrance Spacing (max)	30'		30'	
	Commercial Space Depth (min)	30'		54'	
	Gross Floor Area per DU				
	Lot Area < 5,500 sf	1,500			
	Outdoor Amenity Space (min)	1/DU			



PROJECT NAME

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JOHN WOOD

PROJECT TEAM

Architect Nathália Quirino 857 888-1216 Engineer Nazieh R. Hammouri (857) 312-9212

No.	Description	Date
00	Issued for permit	12/10/2020
)1	Issued for permit	04/19/2021



DRAWING TITLE

ZONING INFORMATION.

DRAWING INFORMATION

December 3, 2021

DATE OF ISSUE

Issued for permit.

DESCRIPTION
NOT TO SCALE.

SCALE 479J

479J 479J
PROJECT# FILE NAME

Nathalia Quirino

DRAWN BY

DRAWING NUMBER

A100-1

	ZONING DISTRICT - Mid-Rise 4 (MR4) General Building	ALLOWED/ REQUIRED	EXISTING	PROPOSED	COMPLIANCE
ΞN٦	FRY AWANING	•			
Α	Width (min)	Equal or Greater in Width of Entry			
В	Projection (min)	3'		3'-5"	
С	Clearance (min)	8'		8'-0"	
D	Front Setback Encroachment (max)	100%			
	Setback from Curb (min)	2'		3'	
	ZONING DATA	PER 4.2.10.g B	BUILDING CON	IPONENTS.	
	ZONING DISTRICT - Mid-Rise 4 (MR4) General Building	ALLOWED/ REQUIRED	EXISTING P	ROPOSED	COMPLIANCE
LOE	BBY ENTRANCE	•	•		
Α	Width (min/max)	15'/30'		21'	
В	Height (min)	80% of Ground Story Height		80	
	Recessed Entrance Width (max)	15'		6'	
	Recessed Entrance Depth (max)	5'		3'	
	ZONING DATA	PER 4.2.10.h E	BUILDING CON	MPONENTS.	
	ZONING DISTRICT - Mid-Rise 4 (MR4) General Building	ALLOWED/ REQUIRED	EXISTING P	ROPOSED	
STO	DRE FRONT				
Α	Width (min/max)	15'/30'		30'	
В	Height (min)	80% of Ground Story Height		11'-2"	
	Display Window Height (min)	8'		8'10"	
	Recessed Entrance Width (max)	15'		6'	
	Recessed Entrance Depth (max)	5'		3'	



*

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ZONING INFORMATION.

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December 3, 2021

DATE OF ISSUE

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SCALE 479J

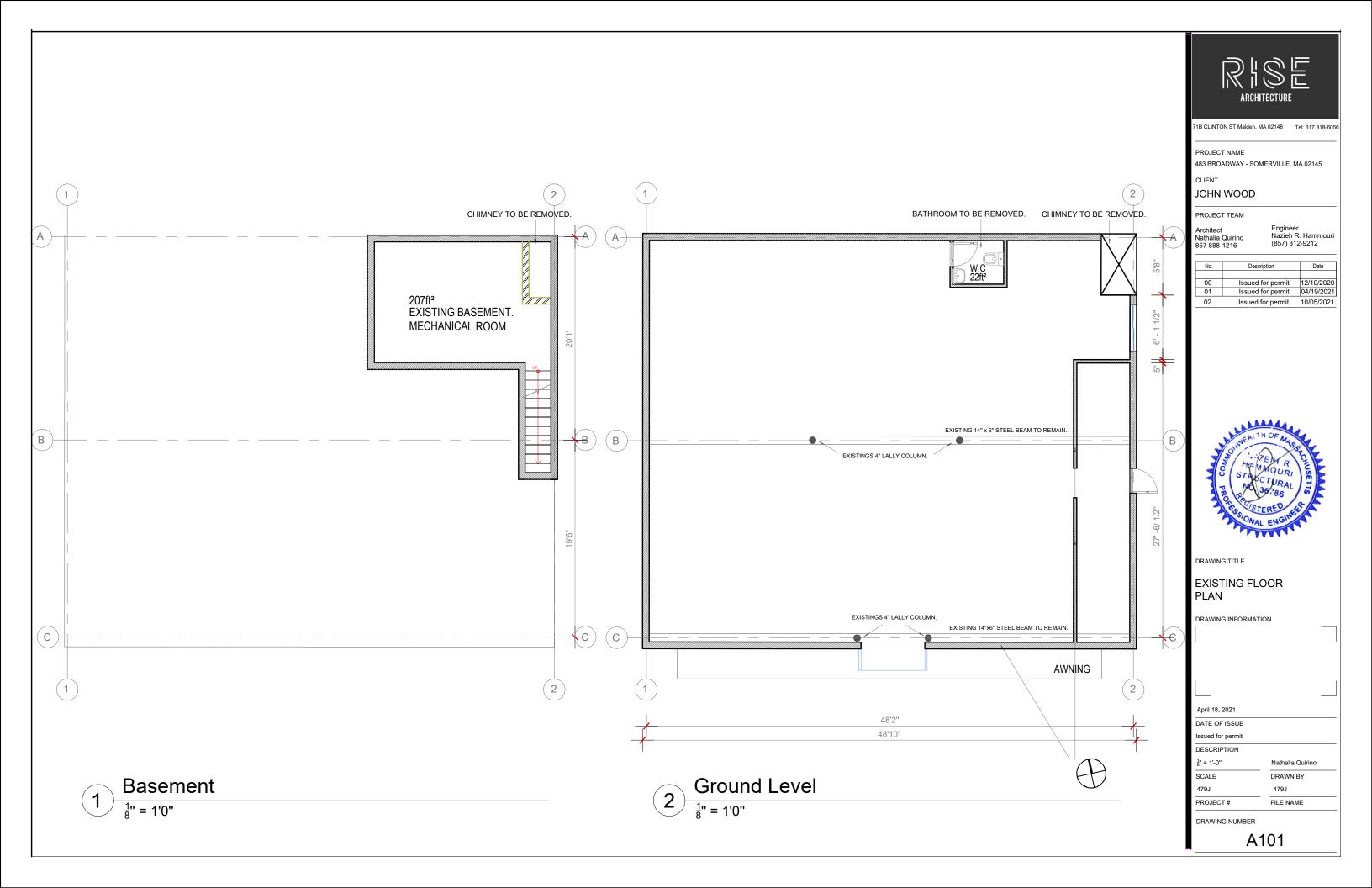
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PROJECT# FILE NAME

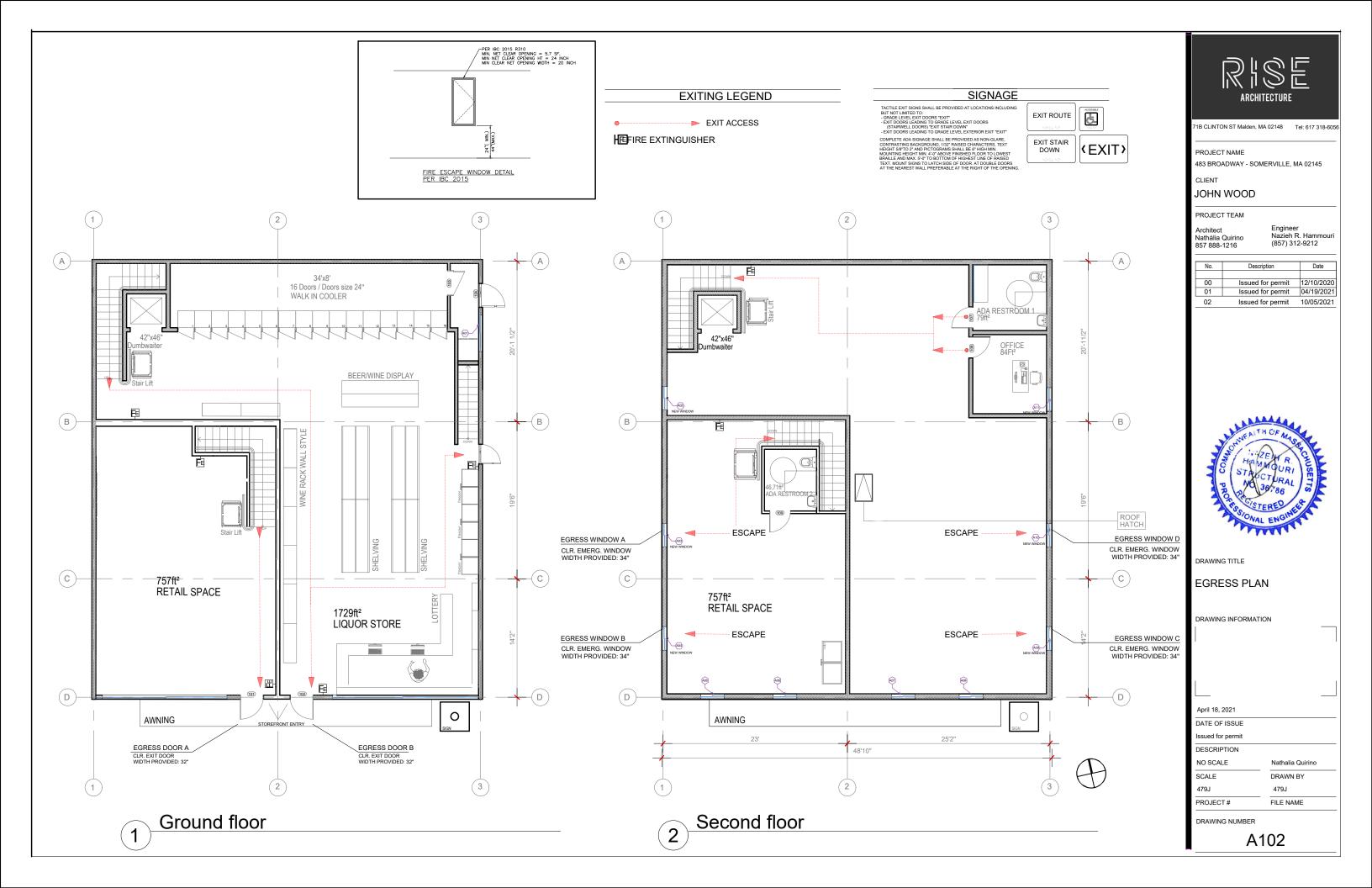
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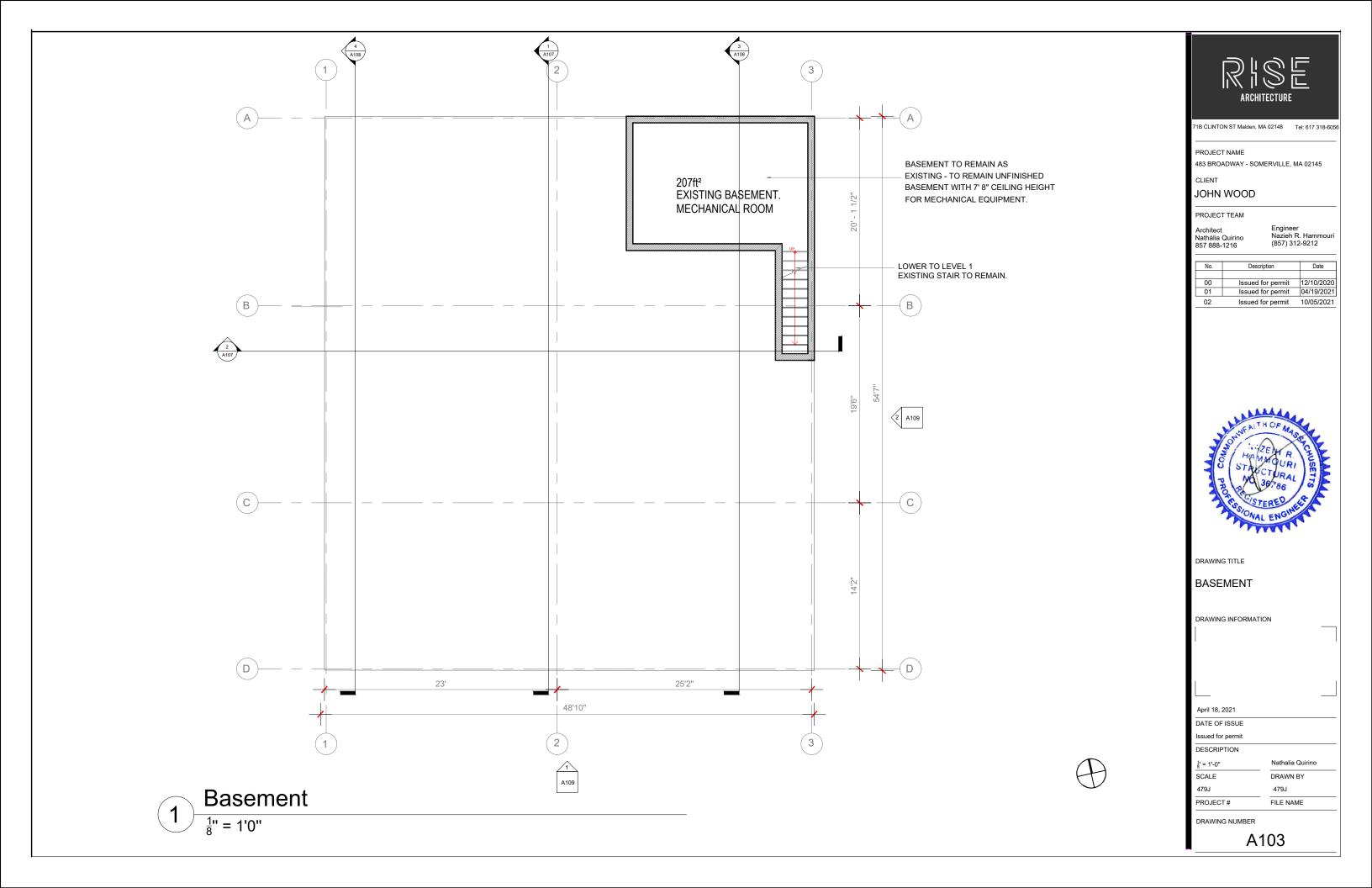
A100-2

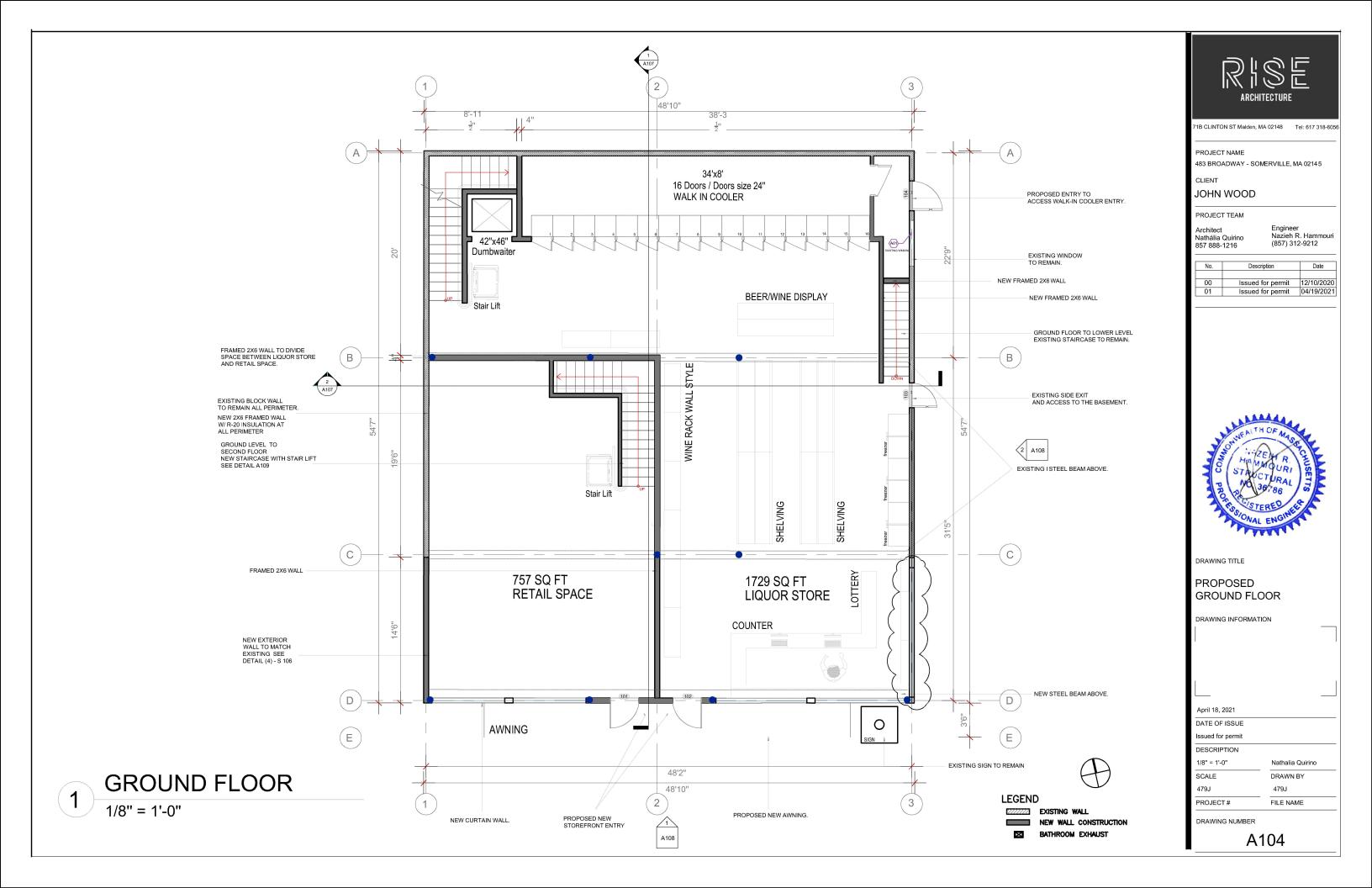
Nathalia Quirino

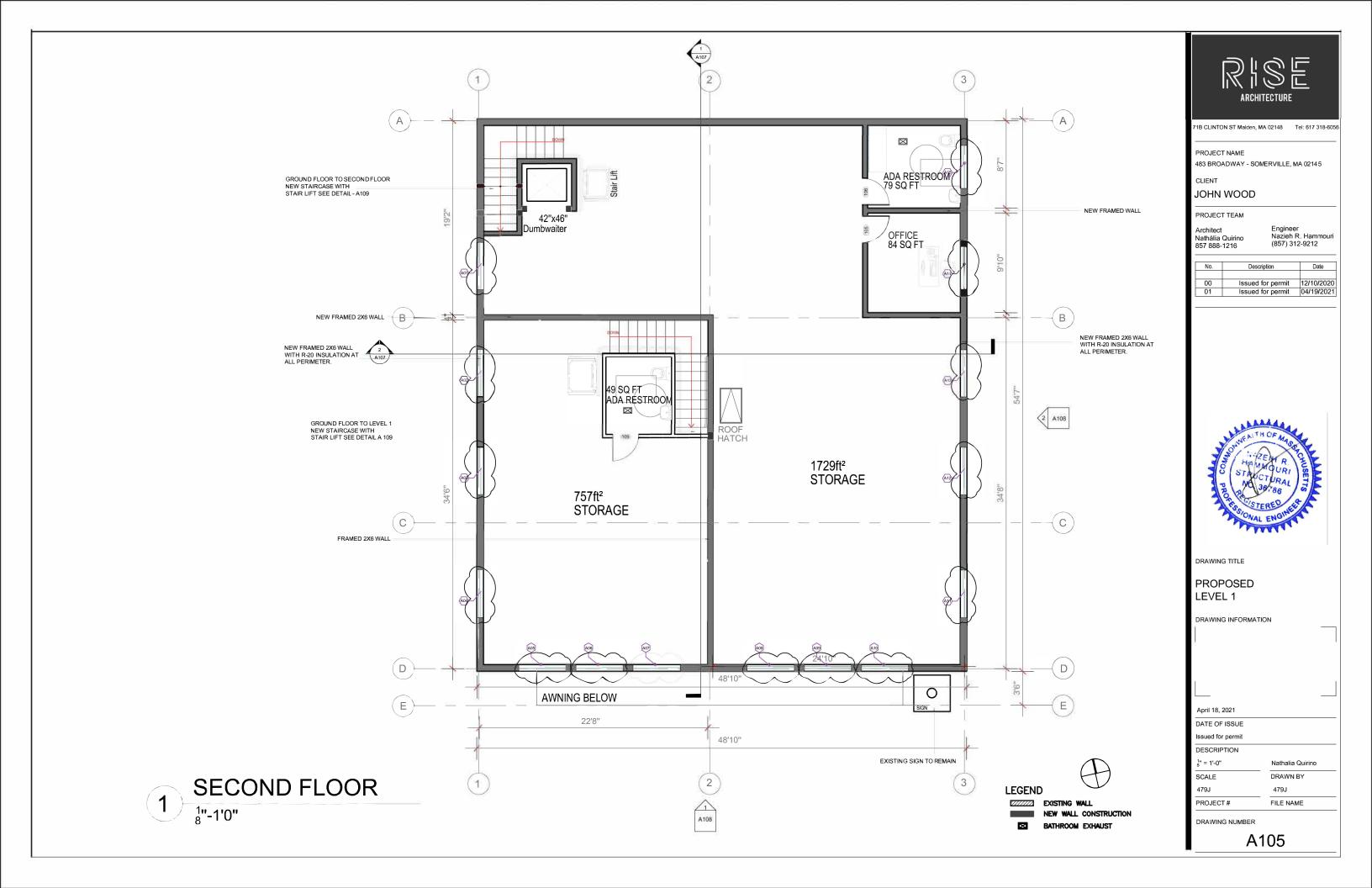
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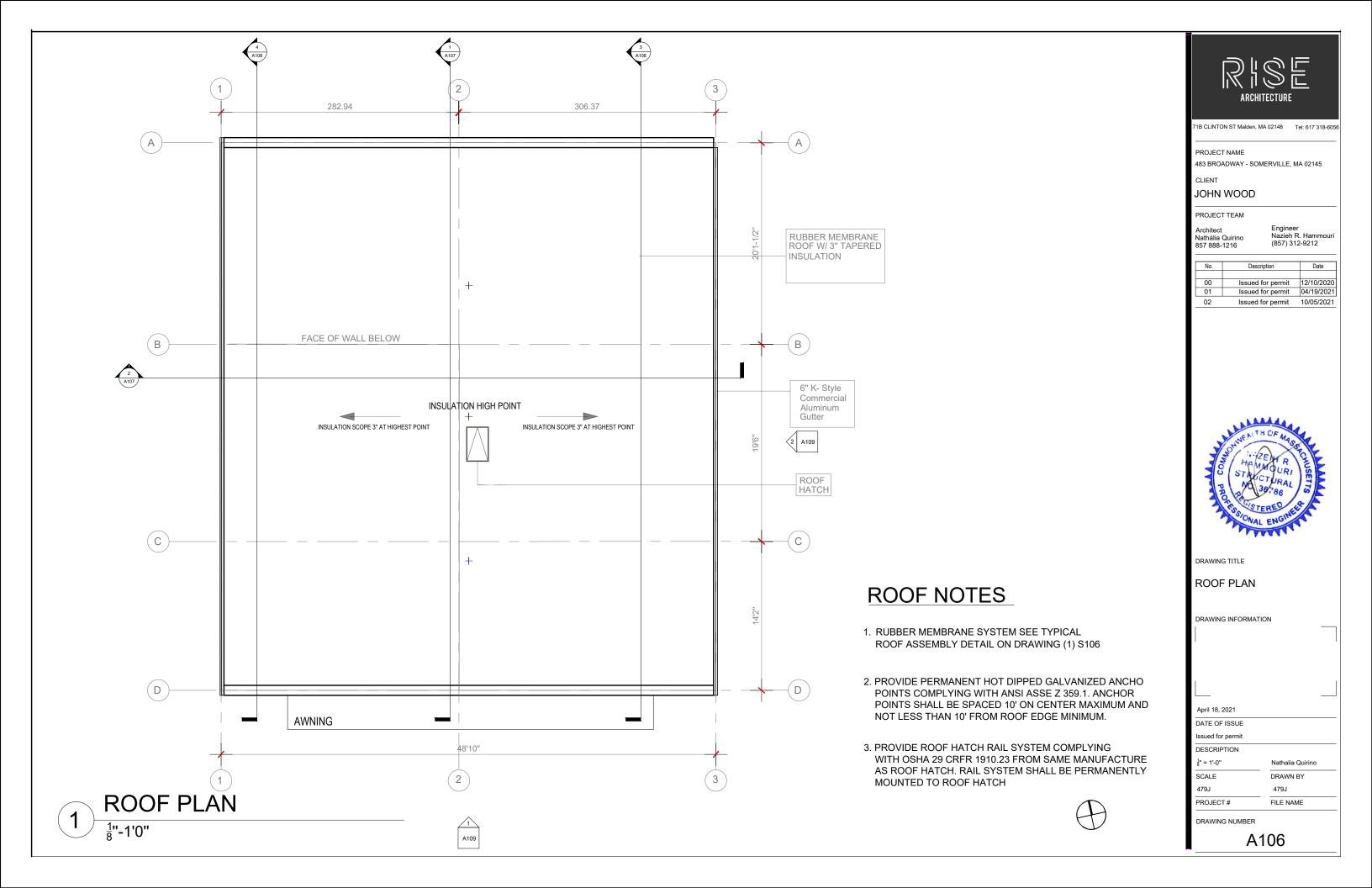


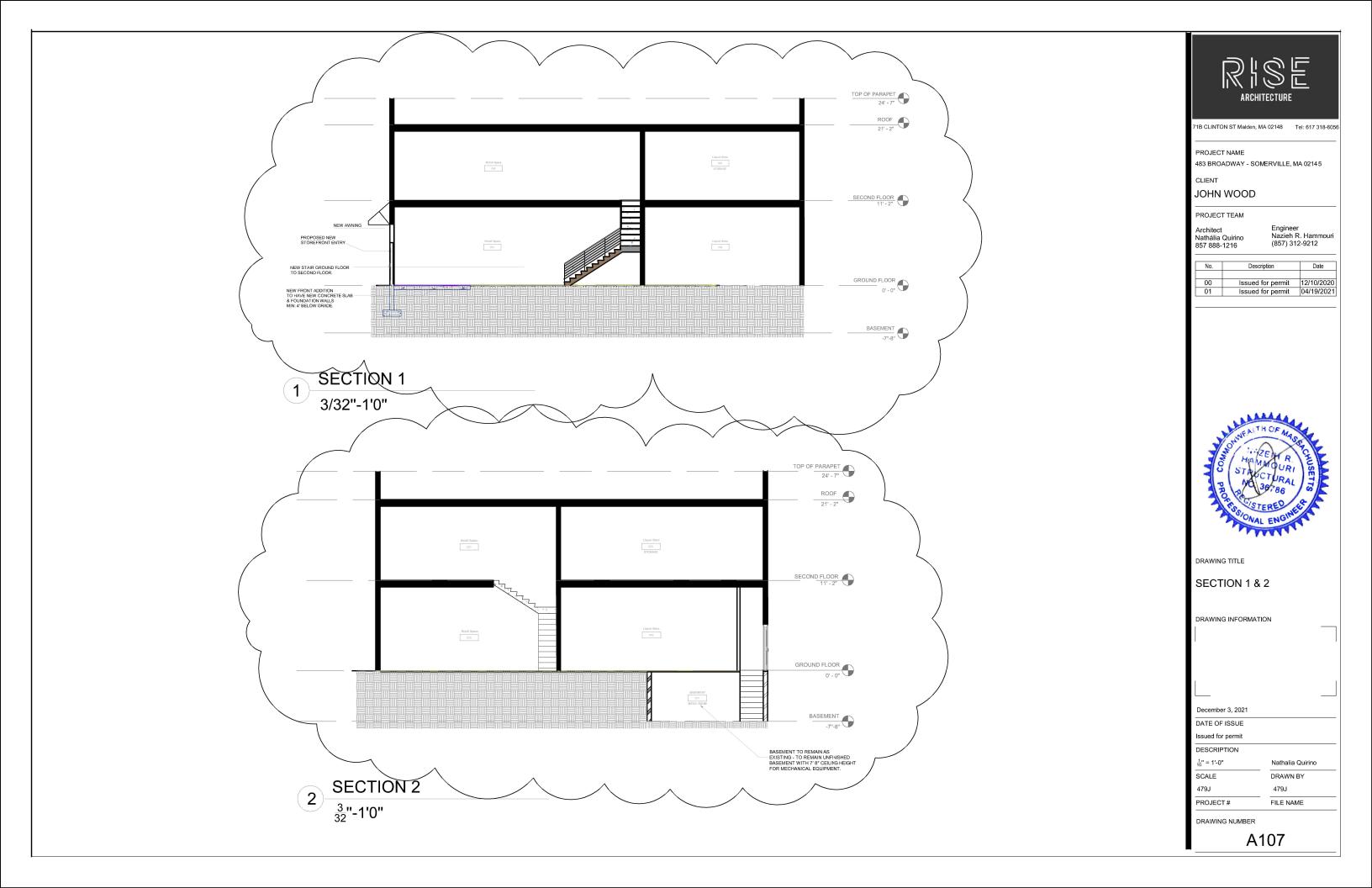


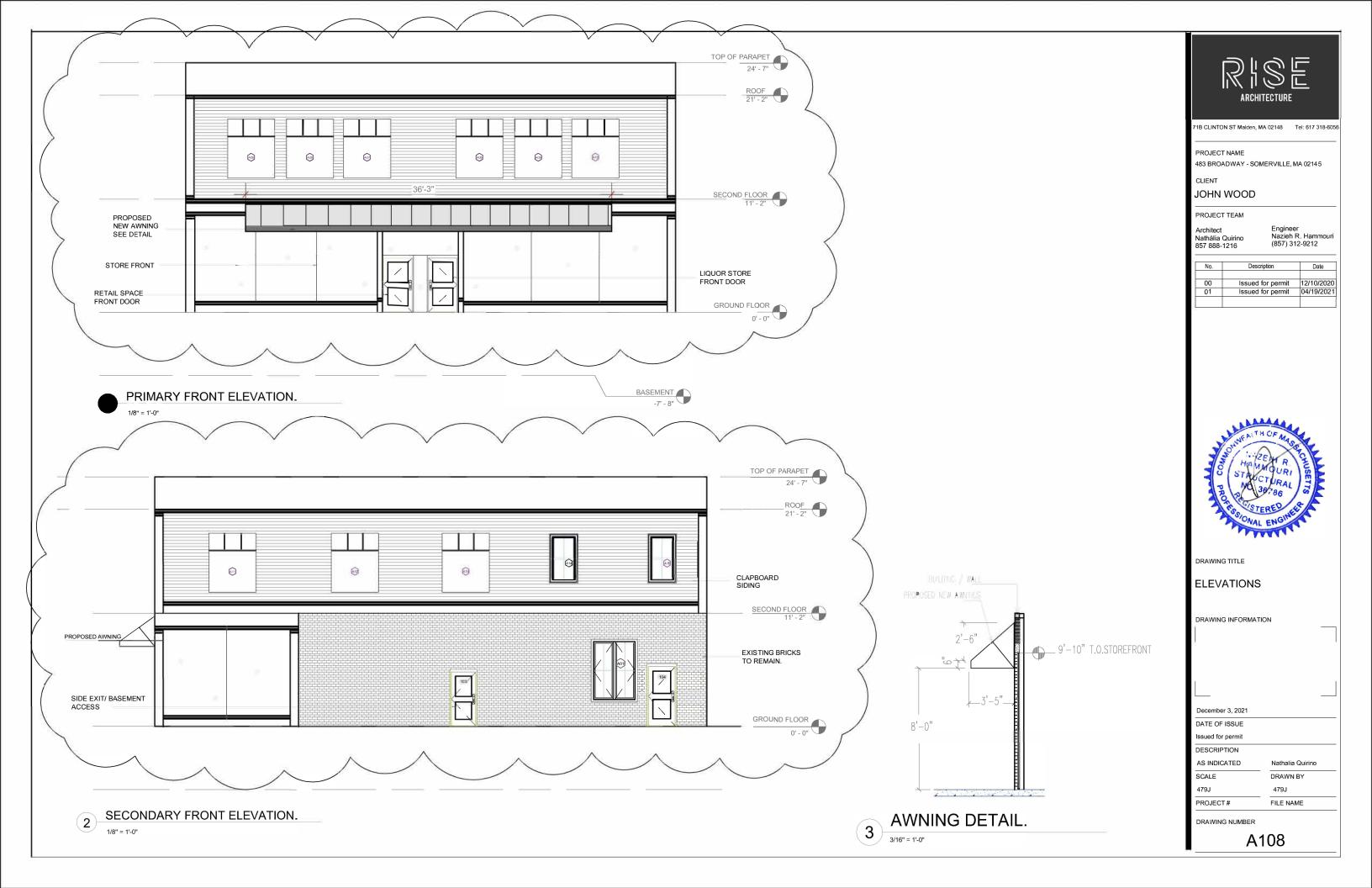


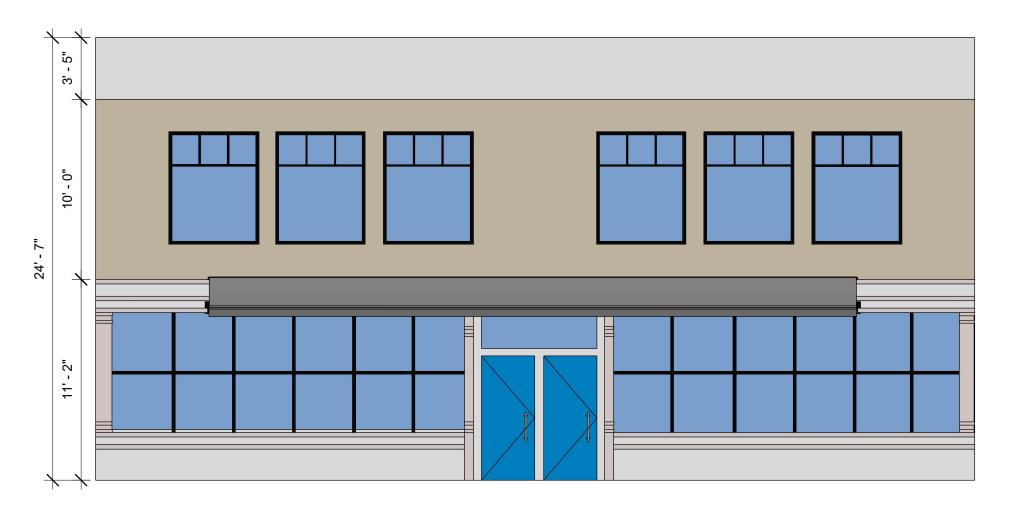












PRIMARY FRONT ELEVATION
3/16" = 1'-0"



71B CLINTON ST Malden, MA 02148 Tel: 617 318-6056

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Engineer Nazieh R. Hammouri (857) 312-9212

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01	Issued for permit	04/19/2021



DRAWING TITLE

ELEVATION

DRAWING INFORMATION

December 3I , 2021

DATE OF ISSUE

Issued for permit DESCRIPTION

1/4" = 1'-0"

Nathalia Quirino SCALE DRAWN BY 479J 479J

PROJECT# FILE NAME

DRAWING NUMBER

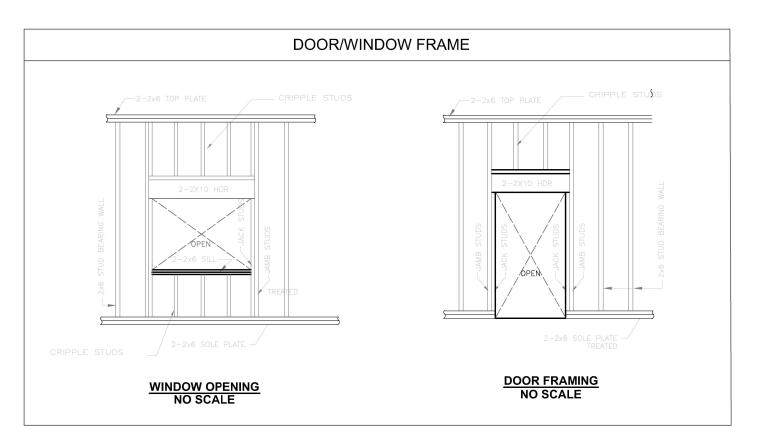
A109

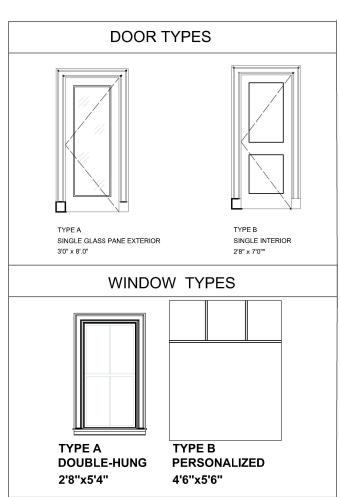
DOOR SCHEDULE

			DOOR				
NO.	ROOM NAME	WIDTH	HEIGHT	THICKNESS	MATERIAL	FINISH	TYPE
A101	STOREFRONT ENTRY 1	3' - 0"	8' - 0"	1 3/4"			TYPE A
A102	STOREFRONT ENTRY 2	3' - 0"	8' - 0"	1 3/4"			TYPE A
A103	SIDE EXIT	3' - 0"	8' - 0"	1 3/4"			TYPE B
A104	SIDE ACCESS	2' - 8"	7' - 0"	1 3/4"			TYPE B
A106	OFFICE	2' - 8"	7' - 0"	1 3/4"			TYPE B
A105	RESTROOM 01	2' - 8"	7' - 0"	1 3/4"			TYPE B
A107	RESTROOM 02	2' - 8"	7' - 0"	1 3/4"			TYPE B

WINDOW SCHEDULE

				WINDOW		
NO.	ROOM NAME	WIDTH	HEIGHT	THICKNESS	TYPE	FINISH
A01	SIDE LIQUOR STORE (Existing)	4' - 6"	5' - 4"			
A02	LEFT SIDE (SECOND FLOOR)	2' - 8"	5' - 6"		TYPE A	
A03	LEFT SIDE (SECOND FLOOR)	4' - 6"	5' - 8"		TYPE B	
A04	LEFT SIDE (SECOND FLOOR)	4' - 6"	5' - 8"		TYPE B	
A05 - A10	FACADE (SECOND FLOOR)	4' - 6"	5' - 6"		TYPE B	
A10-A13	RIGHT SIDE (SECOND FLOOR)	4' - 6"	5' - 6"		TYPE B	
A14/A15	RIGHT SIDE (SECOND FLOOR)	2' - 8"	5' - 6"		TYPE A	







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DRAWING TITLE

DOOR E WINDOWS SCHEDULE.

DRAWING INFORMATION

DATE OF ISSUE Issued for permit

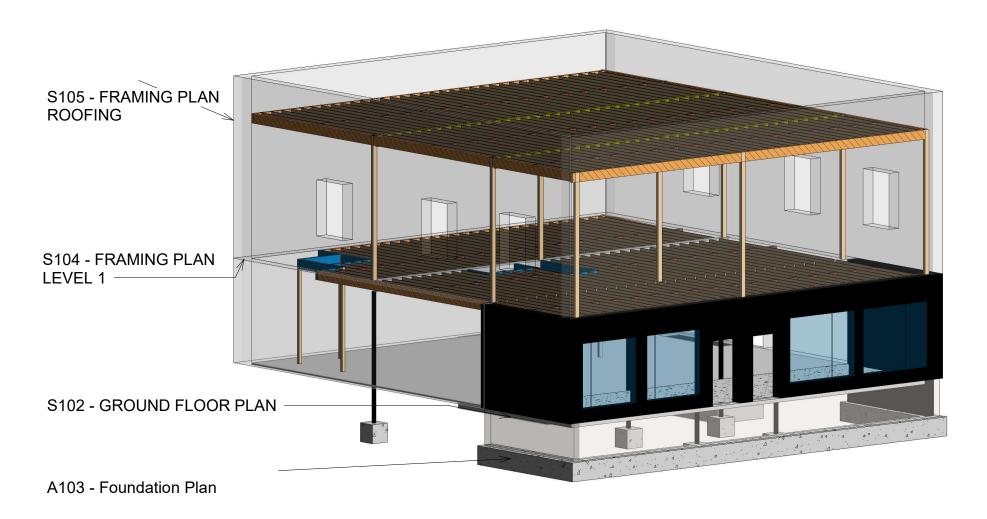
DESCRIPTION

1/4'- 1'-0" Nathalia Quirino

SCALE 479J PROJECT# DRAWN BY 479J

DRAWING NUMBER

A110



STRUCTURAL NOTES

1.ALL DESIGN AND CONSTRUCTION REQUIRED OF THE CONTRACTORS BY THE CONTRACt DOCUMENTS SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST ADOPTED STATE AND LOCAL BUILDING CODES AND OSHA REGULATIONS, SUPPLEMENTED BY THE CONTRACT DOCUMENTS. THE GOVERNING BUILDING CODE USED IN THE STRUCTURAL DESIGN IS THE MASSACHUSETTS BUILDING CODE 6th EDITION WITH THE LATEST ADOPTED AMENDMENTS. 2.STRUCTURAL CONTRACT DOCUMENTS SHALL BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, EQUIPMENT AND SITE CONTRACT DOCUMENTS. THE PROJECT SPECIFICATIONS AND THE

SHOP DRAWINGS.

3.ALL DIMENSIONS, ELEVATIONS AND CONDITIONS SHALL BE VERIFIED IN THE FIELD BY THE GENERAL CONTRACTOR AND ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK. 4.UNLESS OTHERWISE NOTED, DETAILS, SECTIONS AND NOTES SHOWN IN THE CONTRACT DOCUMENTS SHALL BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS.

1.SUBMIT SHOP DRAWINGS, REVIEWED AND APPROVED BY THE GENERAL CONTRACTOR, FOR CONCRETE AND GROUT MIX DESIGNS, CONCRETE AND MASONRY REINFORCING, STRUCTURAL STEEL, SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL BEFORE FABRICATION, MANUFACTURE, DELIVERY AND ERECTION CAN PROCEED.

C.CAST-IN-PLACE CONCRETE

1.ALL CONCRETE SHALL BE READY MIX COMPLYING WITH THE REQUIREMENTS OF ASTM C94, AND SHALL BE NORMAL WEIGHT AND ATTAIN A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 4000 PSI AT THE END OF 28 DAYS AS DETERMINED BY ASTM

D.CONCRETE AND MASONRY REINFORCING

1.ALL REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A615 GRADE 60. ALL WELDED WIRE MESH (W.W.M.) SHALL BE SMOOTH BARS CONFORMING TO ASTM A185.

E.CONVENTIONAL WOOD FRAMING

1. ALL SAWN LUMBER FRAMING MEMBERS SHALL BE SPRUCE-PINE-FIR WITH THE FOLLOWING MINIMUM GRADES: A. JOISTS, RAFTERS, SOLID AND BUILT-UP BEAMS, WALL STUDS AND LINTELS; NO. 1& NO.2 GRADE. B. SILLS AND PLATES; STUD GRADE. C. SOLID WOOD POSTS; NO. 1 GRADE. D. BRIDGING, BLOCKING AND NAILERS; STUD GRADE. 2. ALL "MICROLAM" MEMBERS SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: A. E = 2,000,000 PSI B. Fb = 2800 PSI C. Ft = 1850 PSI D. Fc (perpendicular) = 500 PSI E. Fc (parallel) = 2700 PSI F. Fv = 285 PSI 3. UNLESS OTHERWISE NOTED, ALL NAILING AND FASTENING SHALL BE IN ACCORDANCE WITH TABLE 2305.2, FASTENING SCHEDULE, 1993 BOCA BUILDING CODE. 4. WOOD SILLS BENEATH ÄLL INTERIOR AND EXTERIOR BEARING, WALLS AND ALL MEMBERS EXPOSED TO WEATHER OR MOISTURE SHALL BE PRESERVATIVE TREATED IN ACCORDANCE WITH THE "AMERICAN WOOD PRESERVERS ASSOCIATION, STANDARD C1". 5. ALL STUD WALLS, BEARING AND NON-BEARING, SHALL HAVE ONE ROW OF CONTINUOUS 2X SOLID BLOCKING BETWEEN STUDS AT MID-HEIGHT. BLOCKING SIZE TO MATCH STUD SIZE. 6. FRAMING MEMBERS SHALL NOT BE NOTCHED, CUT OR ALTERED IN THE FIELD WITHOUT THE SPECIFIC APPROVAL OF THE ENGINEER. 7. ALL METAL CONNECTORS FOR WOOD CONSTRUCTION SHALL BE HOT- DIPPED GALVANIZED METAL SHAPES AS MANUFACTURED BY "SIMPSON STRONG-TIE COMPANY, INC." AND BE ATTACHED BY THE GENERAL CONTRACTOR AS PER THE "SIMPSON STRONG-TIE" SPECIFICATIONS. 8. ALL EXTERIOR WALL SHEATHING SHALL BE 5/8 INCH PLYWOOD EXTERIOR SHEATHING. 9. ALL ROOF SHEATHING SHALL BE 5/8 INCH APA RATED PLYWOOD SHEATHING 32/16. USE EXPOSURE 1 PANELS. EXCEPT USE EXTERIOR PANELS FOR STARTER STRIPS ALONG EAVES AND WHEN LONG CONSTRUCTION DELAYS ARE ANTICIPATED. APPLY PANELS WITH THE FACE GRAIN PERPENDICULAR TO THE RAFTERS OR TRUSSES AND CONTINUOUS OVER TWO OR MORE SPANS. INSTALL PANEL CLIPS ALONG PANEL ENDS BETWEEN EACH RAFTER OR TRUSS. ATTACH PANELS WITH GLUE AND 6d RING OR SCREW SHANK NAILS AT 6 INCHES ON CENTER AT PANEL EDGES AND 12 INCHES ON CENTER AT INTERMEDIATE SUPPORTS. 10. ALL FLOOR SHEATHING SHALL BE 3/4 INCH APA RATED "STUR-I-FLOOR", 24 O/C, TONGUE AND GROOVE. USE EXPOSURE 1 PANELS, APPLY PANELS WITH THE FACE GRAIN PERPENDICULAR TO THE JOISTS OR TRUSSES AND CONTINUOUS OVER TWO OR MORE SPANS. ATTACH PANELS BY GLUE-NAILING AS FOLLOWS: A. SPREAD GLUE IN ACCORDANCE WITH RECOMMENDATIONS OF GLUE MANUFACTURER AND INDUSTRY PRACTICE. B. STAGGER END JOINTS IN EACH SUCCEEDING ROW, LEAVING 1/8 INCH SPACE BETWEEN ALL END AND EDGE JOINTS, INCLUDING TONGUE AND GROOVE EDGES. C. COMPLETE ALL NAILING OF EACH PANEL BEFORE GLUE SETS WITH 6d RING- OR SCREW-SHANK NAILS AT 12 INCHES ON CENTER AT PANEL EDGES AND INTERMEDIATE SUPPORTS. 11. LEAD HOLES FOR WOOD SCREWS AND LAG BOLTS SHALL BE DRILLED 7/8 OF THE SHANK DIAMETER FOR THE DEPTH OF SHANK EMBEDMENT AND 7/8 OF THE THREADED PORTION DIAMETER FOR THE DEPTH OF THE THREAD EMBEDMENT.



PROJECT NAME

483 BROADWAY, SOMMERVILLE 02145

CLIENT

JOHN WOOD

PROJECT TEAM

Nathália Quiring

Engineer Nazieh R. Hammour 857 312-9212

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	No.	Description	Date
	00	Issued for Permit	12/30/2020
	01	Issued for Permit	04/19/2021
	02	Issued for Permit	10/052021



DRAWING TITLE

OVERALL STRUCTURAL

DRAWING INFORMATION

04/18/2021
DATE OF ISSUE

Issued for Permit

DESCRIPTION

NATHALIA QUIRINO MARINA RAMOS

DRAWN BY

FII F NAME

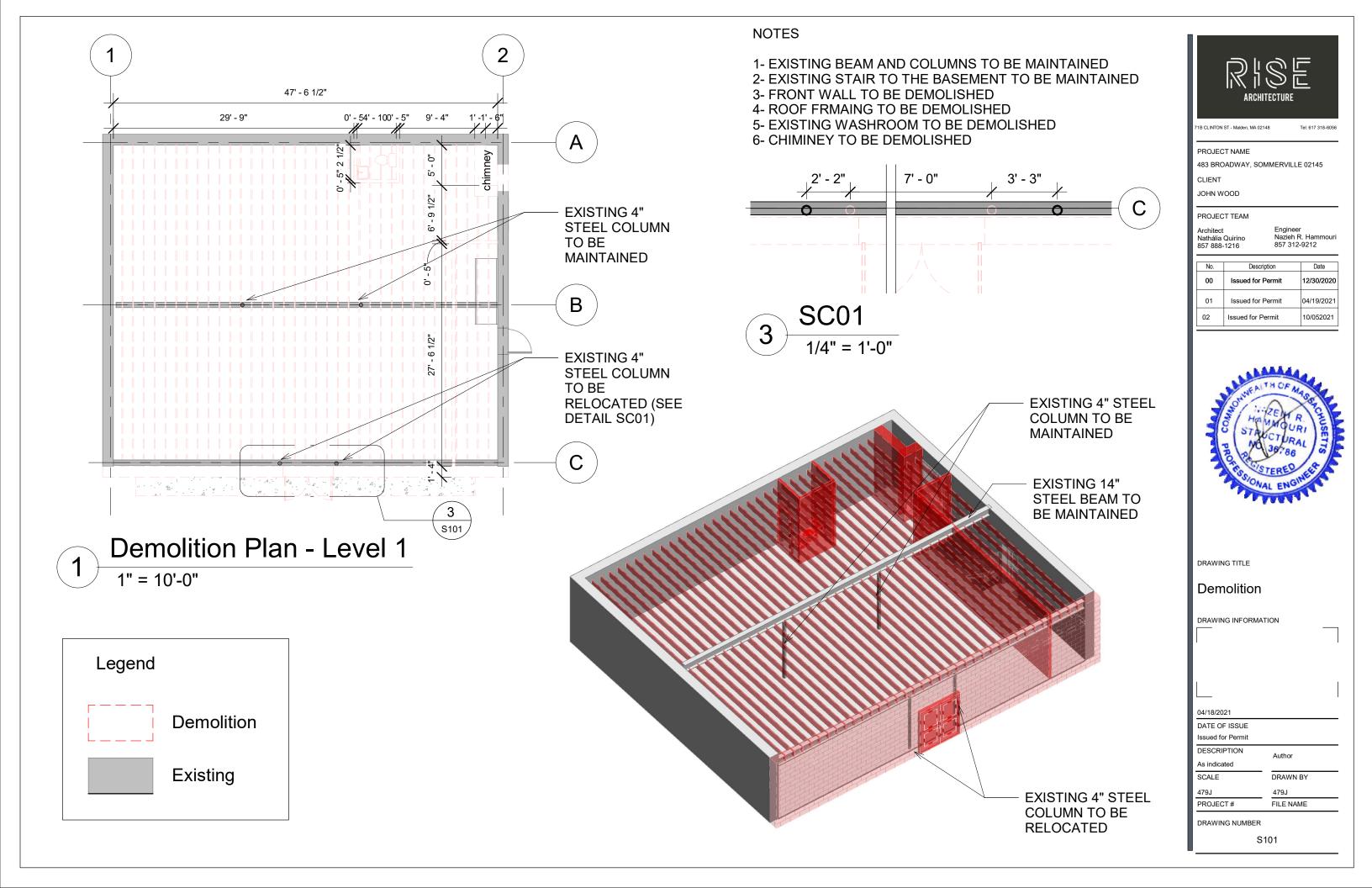
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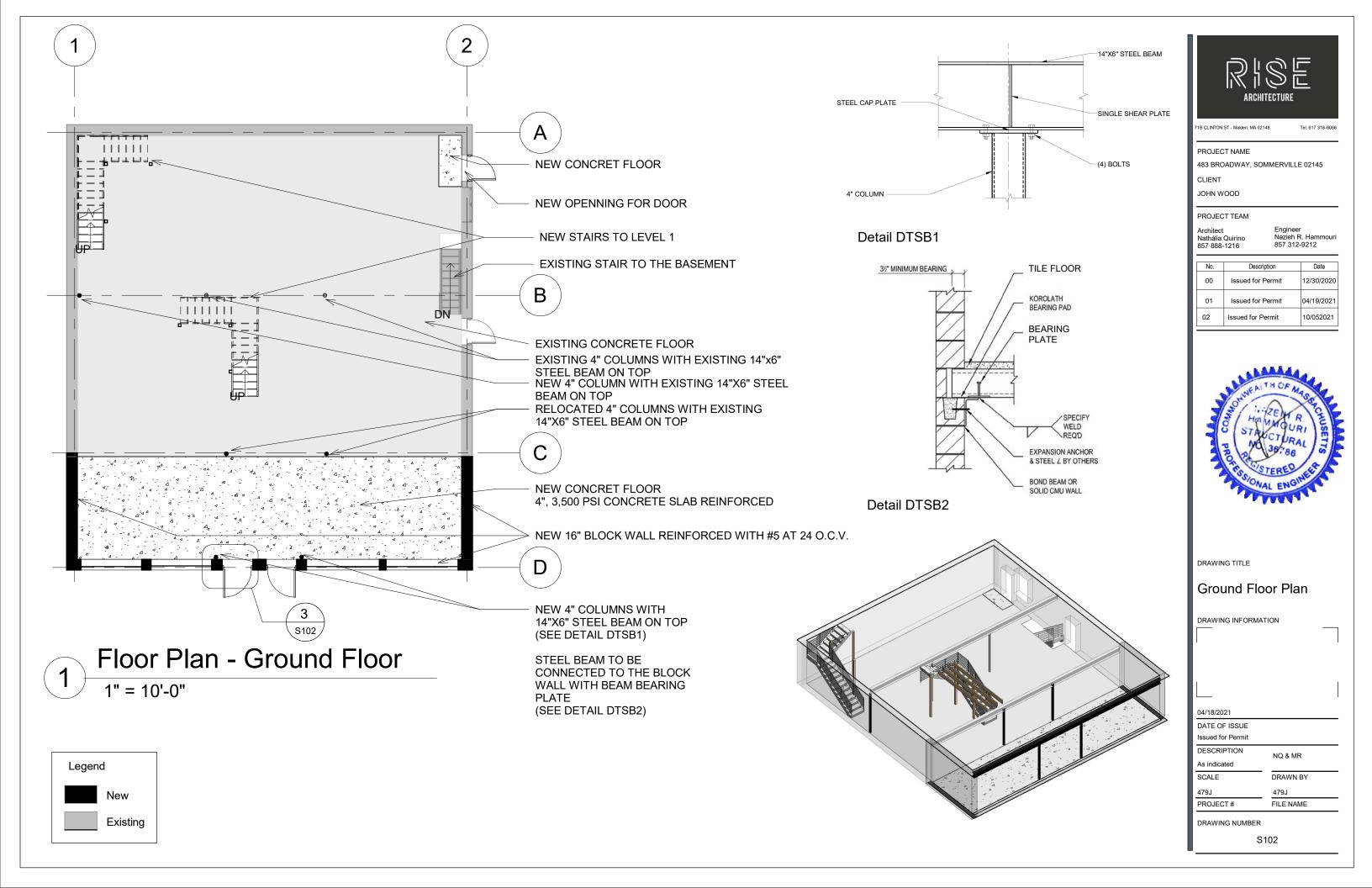
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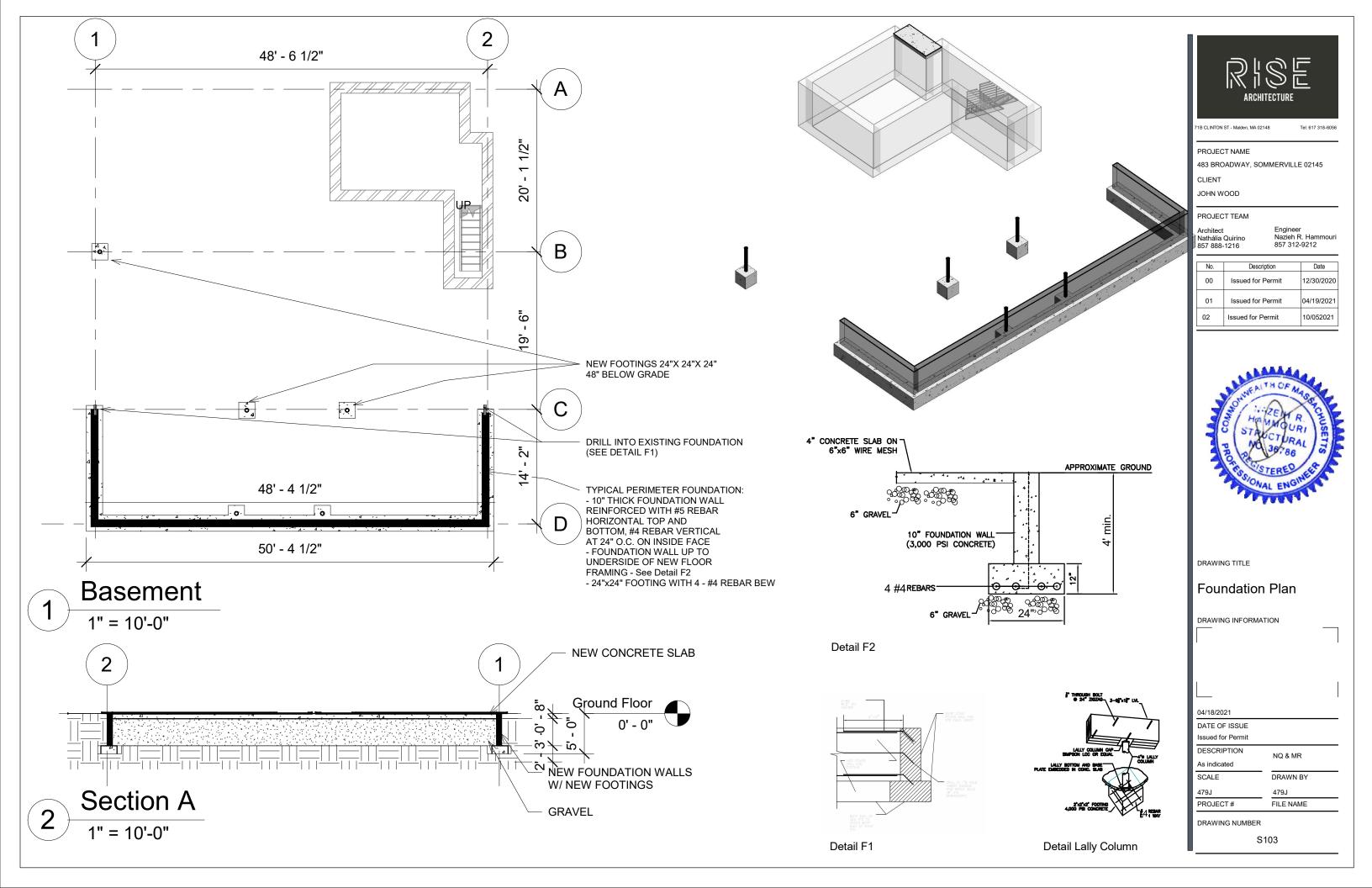
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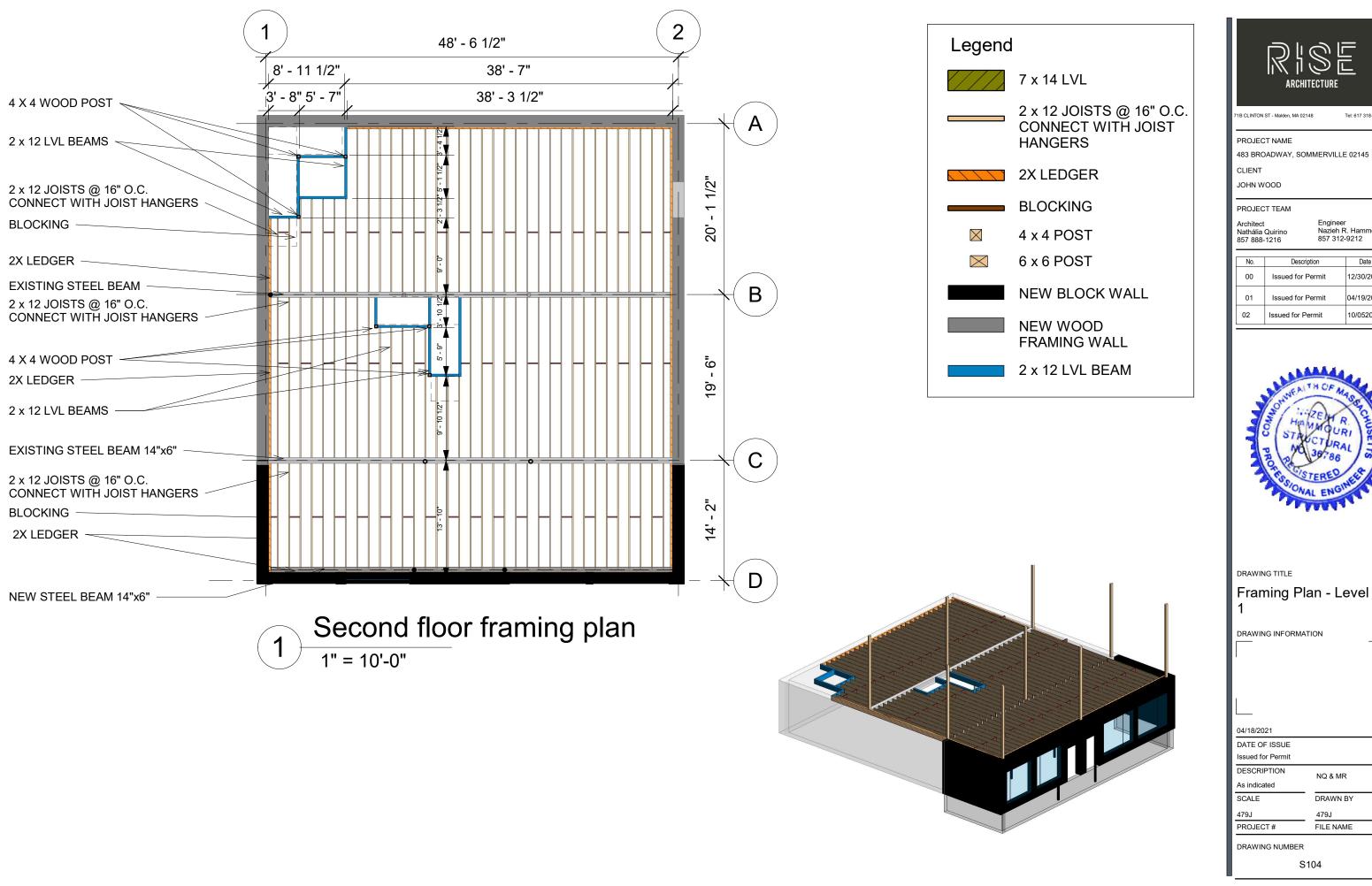
DRAWING NUMBER

S100







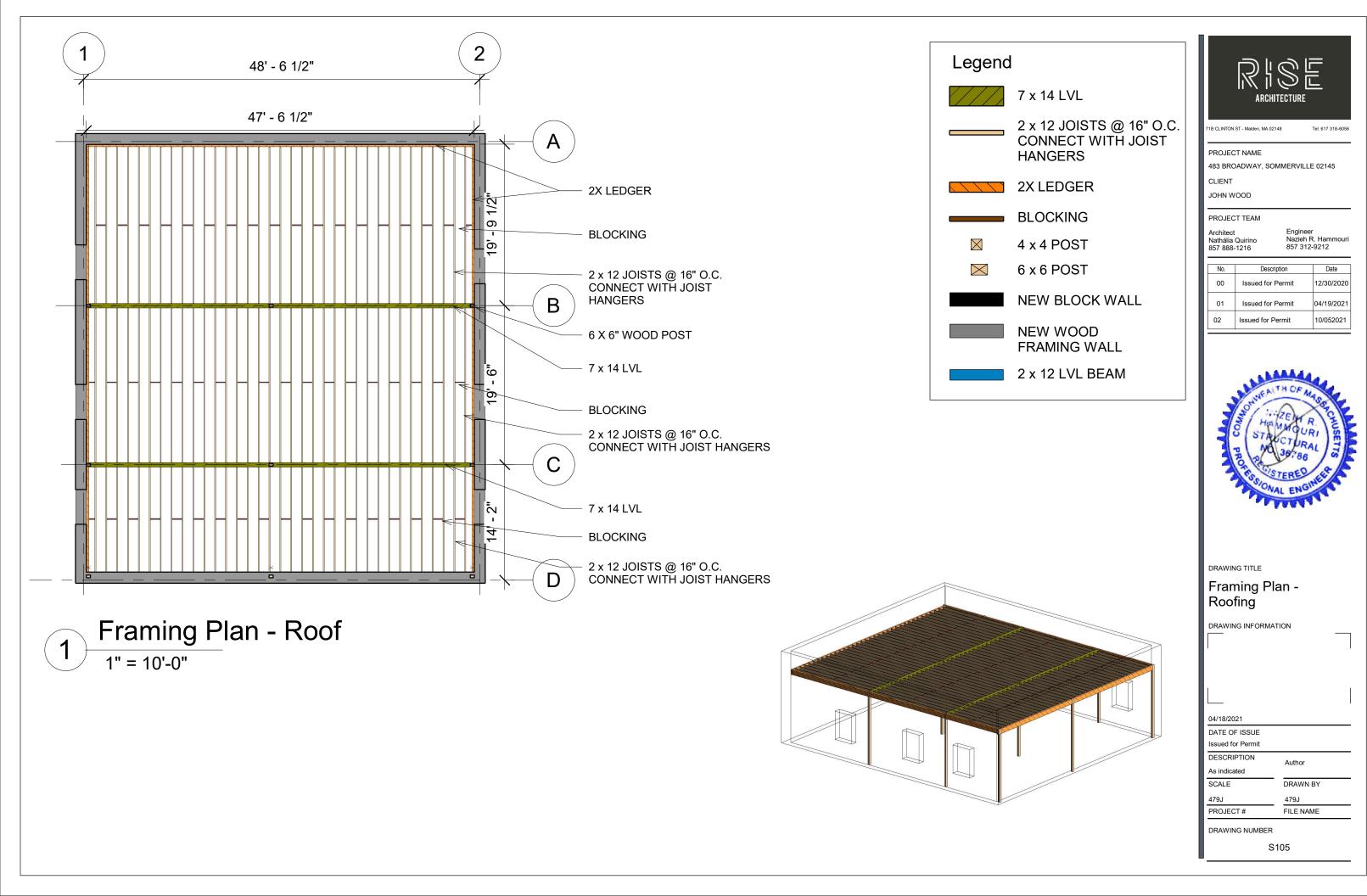




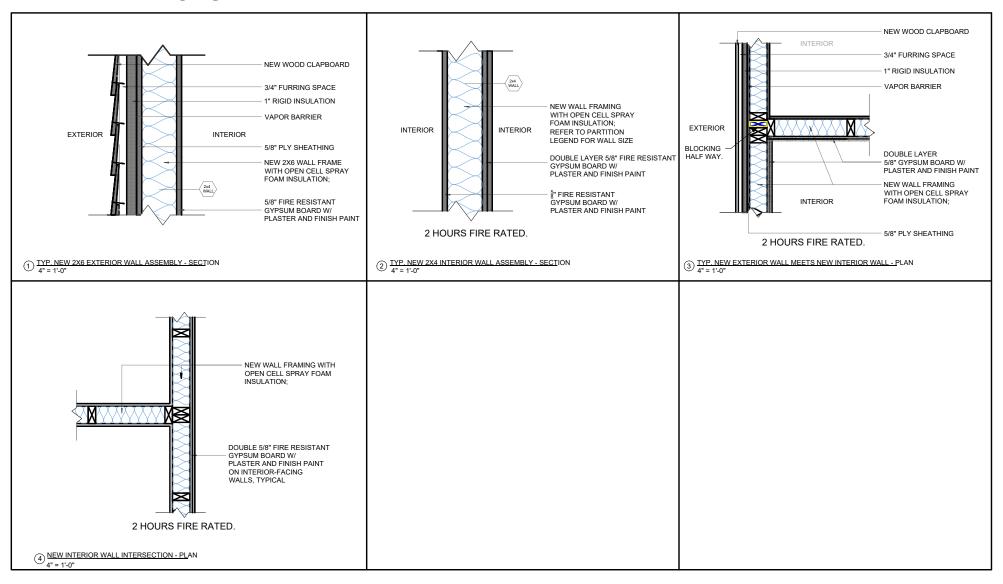
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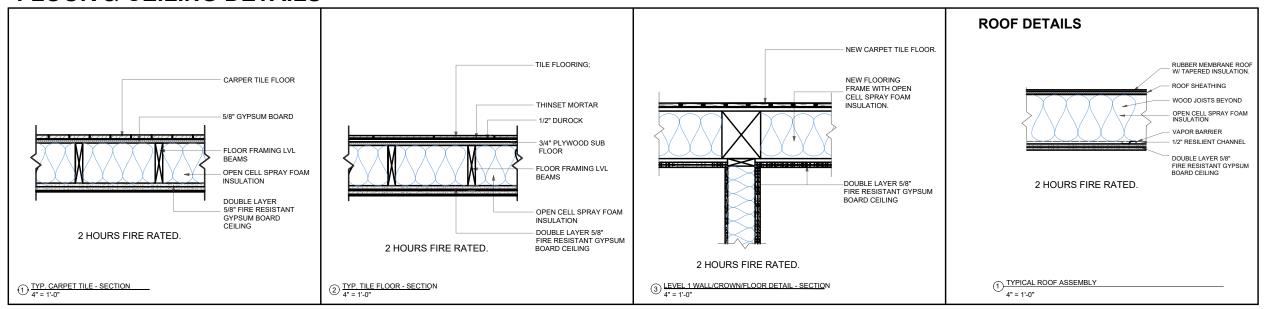




WALL PARTITIONS



FLOOR & CEILING DETAILS





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PROJECT TEAM

Architect Nathália Quirino 857 888-1216

Engineer Nazieh R. Hammouri (857) 312-9212

No.	Description	Date
00	Issued for permit	12/10/2020
01	Issued for permit	04/19/2021
02	Issued for Permit	10/052021



DRAWING TITLE **DETAILS**

DRAWING INFORMATION

April 18, 2021

DATE OF ISSUE

Issued for permit

DESCRIPTION

AS INDICATED

SCALE 479.1

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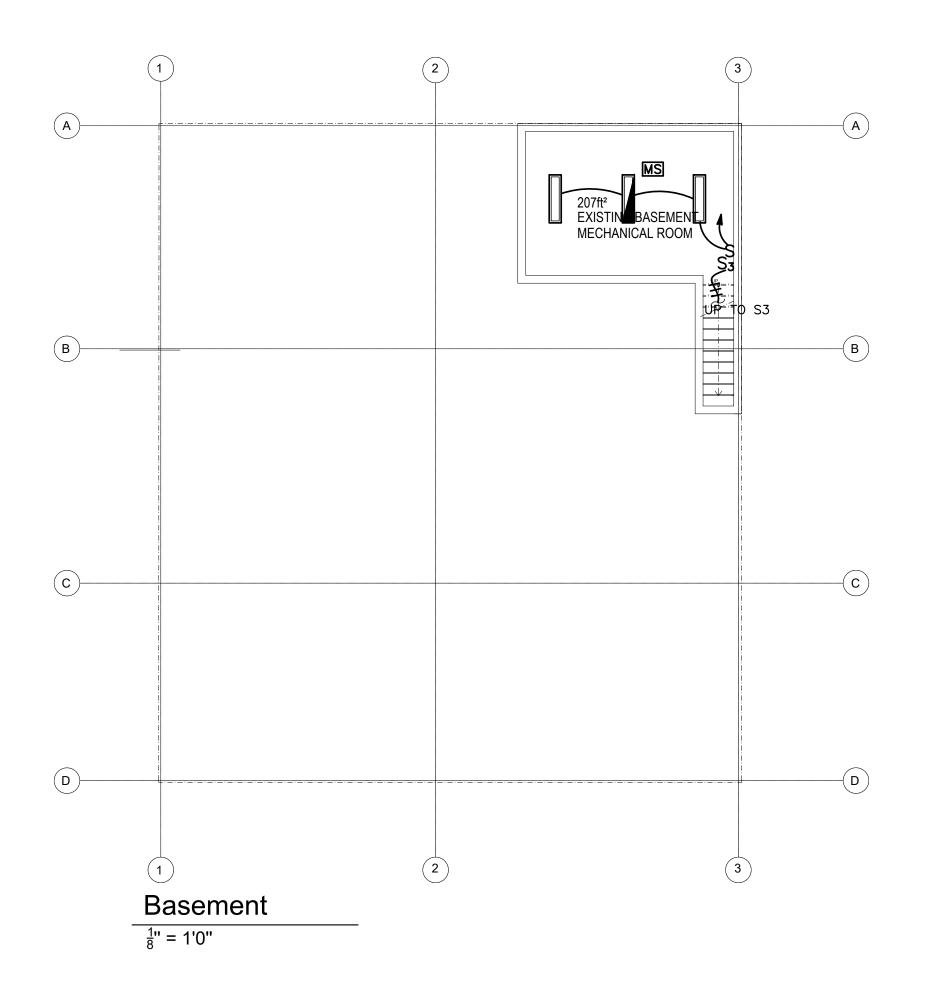
NQ & MR

FILE NAME

DRAWING NUMBER

PROJECT#

S106





PROJECT NAME

483 BROADWAY - SOMERVILLE, MA 02145

CLIENT

JOHN WOOD

PROJECT TEAM

Architect Nathália Quirino 857 888-1216 Engineer Nazieh R. Hammouri (857) 312-9212

	No. Description		Date
00	Issued for permit	1	2/10/2020
01	Issued for permit	С	4/19/2021
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DRAWING TITLE

BASEMENT

DRAWING INFORMATION

LIGHTING PLAN

March 31, 2021

DATE OF ISSUE Issued for progress

DESCRIPTION

As indicated

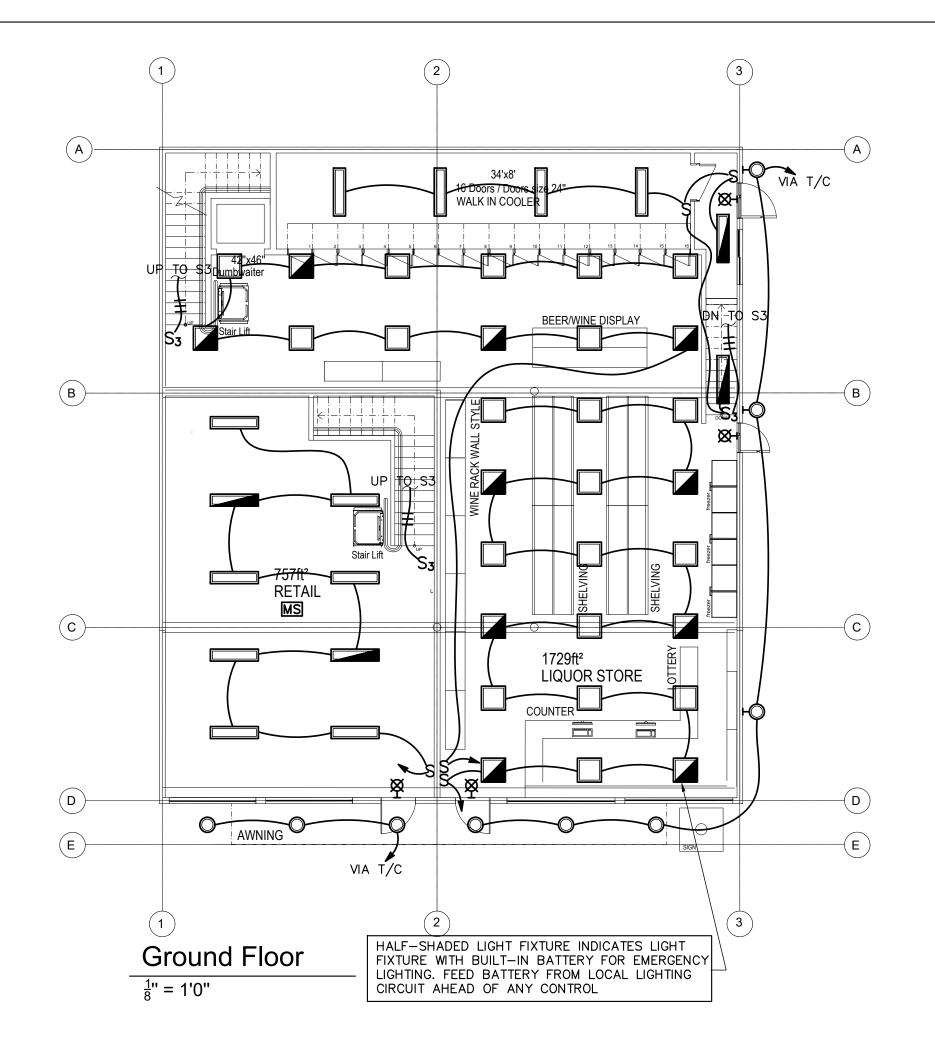
SCALE 479J

PROJECT # FILE NAME

DRAWN BY

479J

DRAWING NUMBER





PROJECT NAME

483 BROADWAY - SOMERVILLE, MA 02145

CLIENT

JOHN WOOD

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DRAWING TITLE

GROUND FLOOR

DRAWING INFORMATION

LIGHTING PLAN

March 31, 2021

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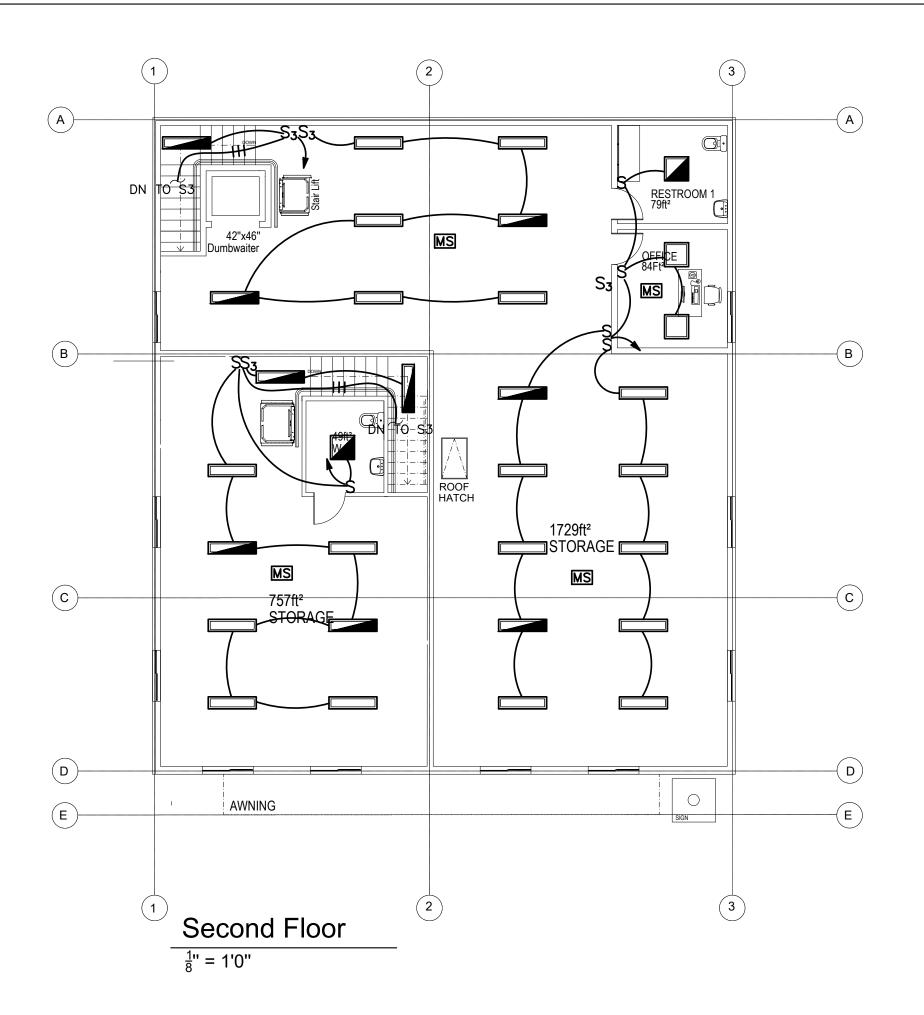
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SCALE 479J

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PROJECT # FILE NAME

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DRAWING NUMBER





PROJECT NAME

483 BROADWAY - SOMERVILLE, MA 02145

CLIENT

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DRAWING TITLE

FIRST FLOOR

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LIGHTING PLAN

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479J

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DESCRIPTION

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SCALE

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PROJECT#

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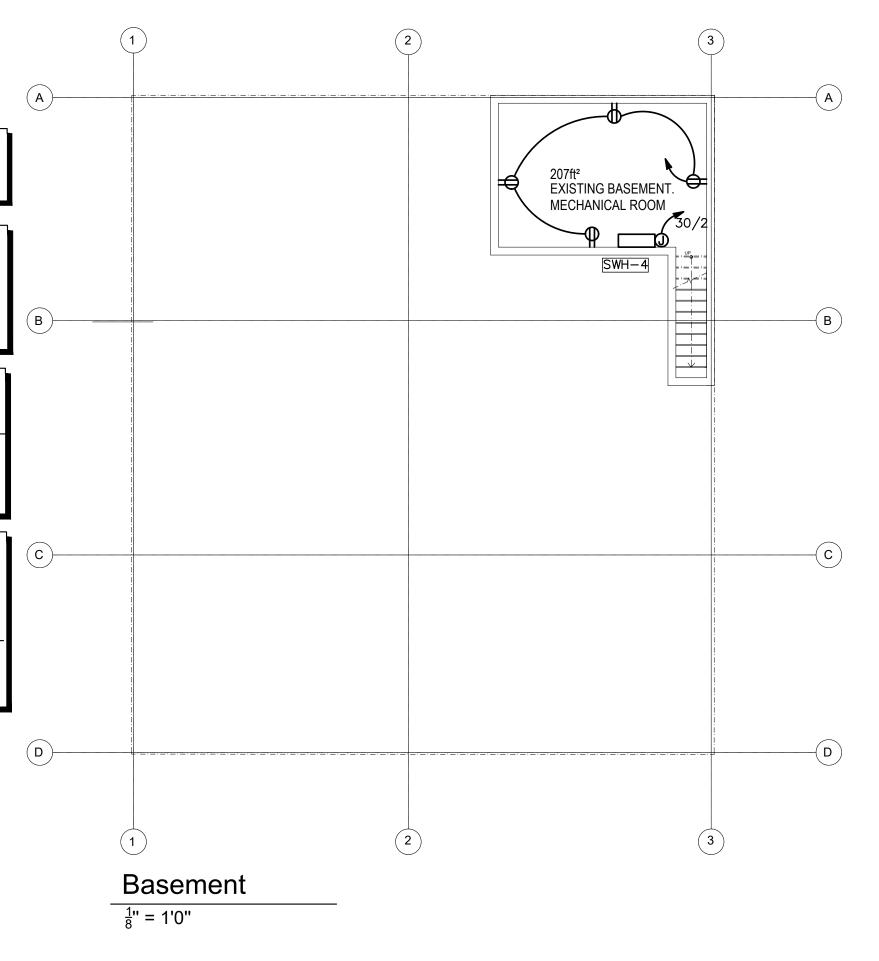
LOCATION OF ALL MECHANICAL EQUIPMENTS AND ELECTRICAL CHARACTERISTICS SHALL BE COORDINATED WITH MECHANICAL CONTRACTOR PRIOR TO ANY WORK DONE. ALL EQUIPMENT RELATING TO MECHANICAL COMPONENTS SHALL BE ORDERED ONLY AFTER THE APPROVAL OF MECHANICAL EQUIPMENT SHOP DRAWINGS

WIRING IN ALL EXPOSED AREAS SHALL BE IN METALLIC RACEWAYS AS WIREMOLD OR EQUAL. RACEWAYS SHALL BE PAINTED AS DIRECTED BY THE ARCHITECT. SURFACE RACEWAYS SHALL CLOSELY FOLLOW THE SURFACE AND WRAP AROUND THE BEAMS AS REQUIRED. PRIOR TO ANY INSTALLATION, SUBMIT LAYOUT SKETCH INDICATING PROPOSED ROUTING FOR APPROVAL. ARCHITECT HAS THE RIGHT TO MODIFY OR CHANGE LAYOUT AS NEEDED. ANY CHANGES PRIOR TO ANY INSTALLATION SHALL BE AT NO CHANGE TO

UNLESS NOTED OTHERWISE ALL WIRING SHALL BE #12AWG, Cu, AND FED FROM PANEL TP VIA 20A/1P C.B. CIRCUITS LONGER THAN 100FT SHALL BE #10 CU

NO EXPOSED WIRING IS ALLOWED, ALL CONCEALED WIRING SHALL BE IN "MC". ALL WIRING IN BLOCK WALLS SHALL BE CONCEALED, RUN IN CONDUIT.

▼: INDICATES TEL/DATA COMBINATION OUTLET WITH CAT 5 TEL/DATA JACK. E.C. SHALL WIRE EACH OUTLET HOME RUN 4 PAIR CAT 6 CLP FOR TELEPHONE AND 4 PAIR CAT 6 CLP FOR DATA TO TELEPHONE AND DATA TERMINATION BOARDS RESPECTIVELY. TERMINATE AT TWO SEPARATE PUNCH DOWN BLOCKS. ALL WIRING AND TERMINATION'S SHALL BE PER CAT 6 SPECIFICATIONS, ALL WIRES SHALL BE PROPERLY LABELED AND RINGED OUT. KEEP WIRES MINIMUM 18" FROM POWER FEEDS AND FIXTURE BALLASTS





71B CLINTON ST Malden, MA 02148 Tel: 617 318-6056

PROJECT NAME

483 BROADWAY - SOMERVILLE, MA 02145

CLIENT

JOHN WOOD

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DRAWING TITLE

BASEMENT

DRAWING INFORMATION

POWER PLAN

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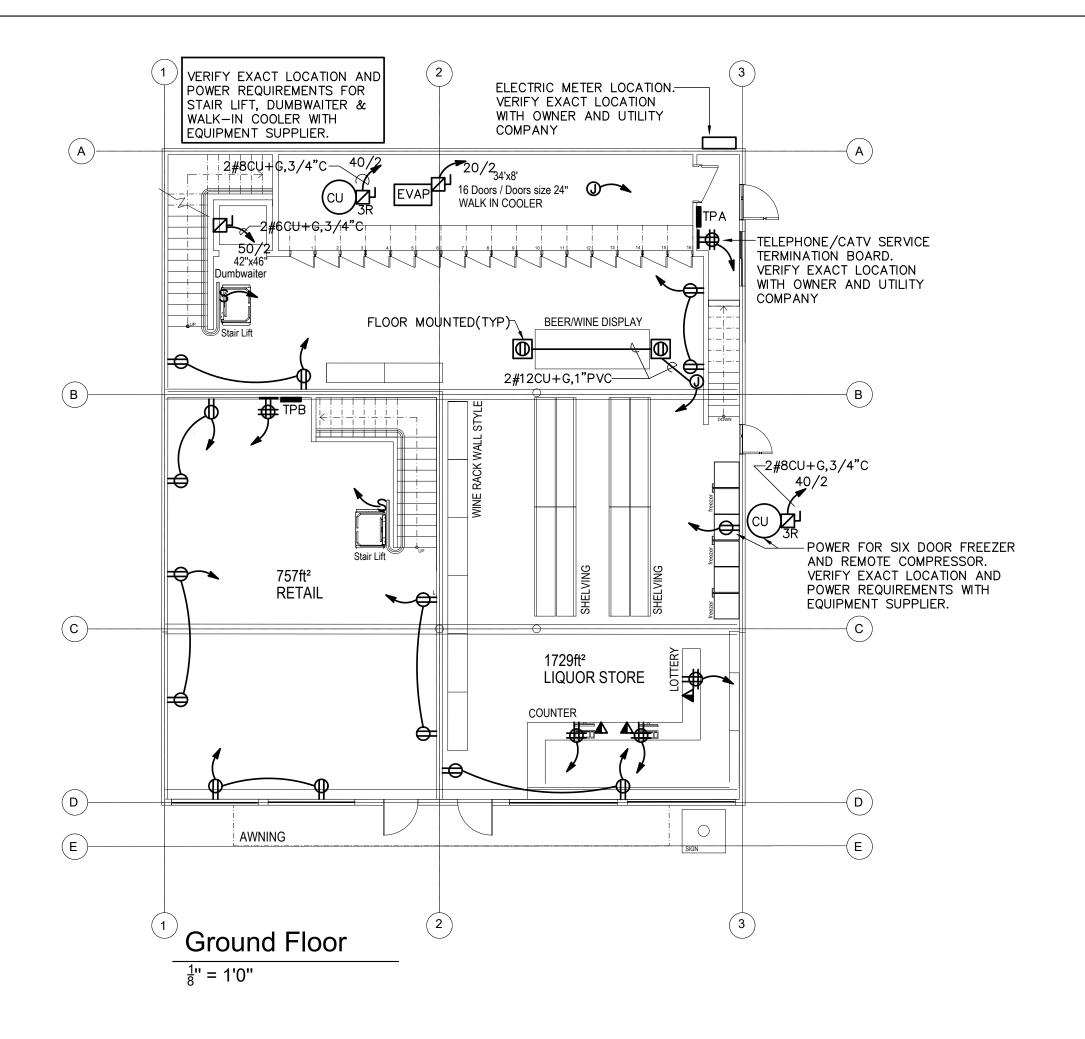
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PROJECT NAME

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DRAWING TITLE

GROUND FLOOR

DRAWING INFORMATION

POWER PLAN

March 31, 2021 DATE OF ISSUE

DESCRIPTION

As indicated

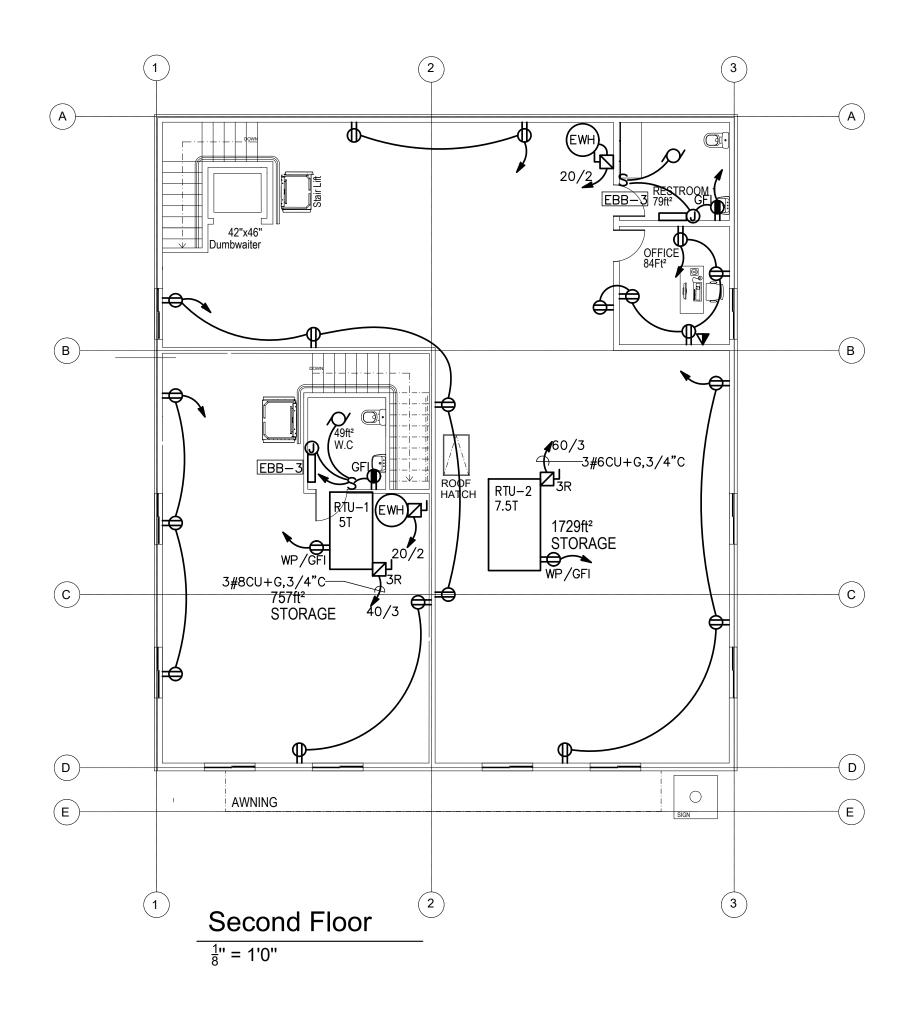
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PROJECT # FILE NAME

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479J

DRAWING NUMBER





PROJECT NAME

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CLIENT

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DRAWING TITLE

FIRST FLOOR

DRAWING INFORMATION

POWER PLAN

DRAWN BY

FILE NAME

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March 31, 2021

DATE OF ISSUE

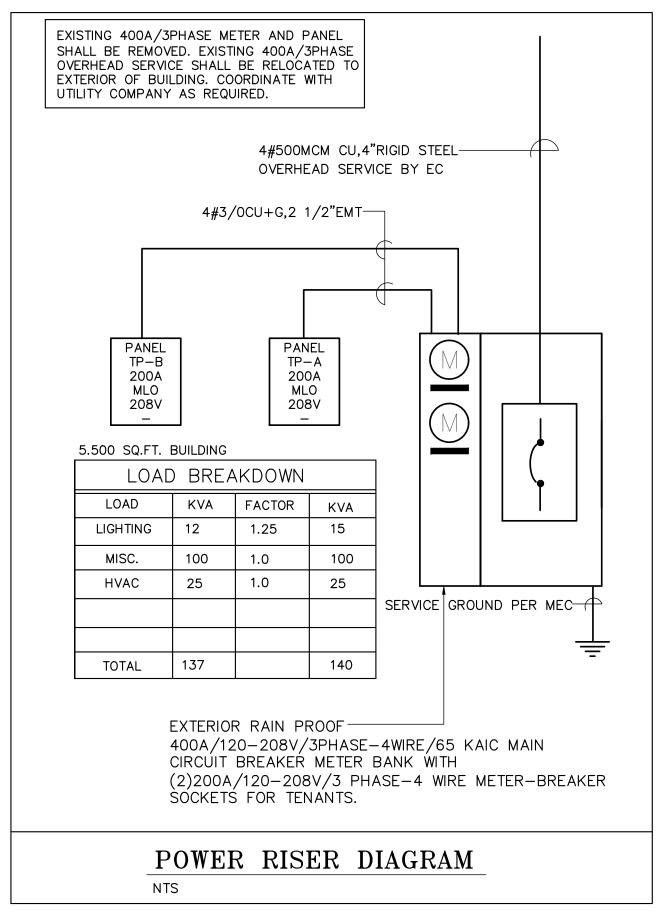
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DRAWING TITLE

ELECTRICAL

DRAWING INFORMATION

DETAILS

—— March 31, 2021

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As indicated

SCALE 479J

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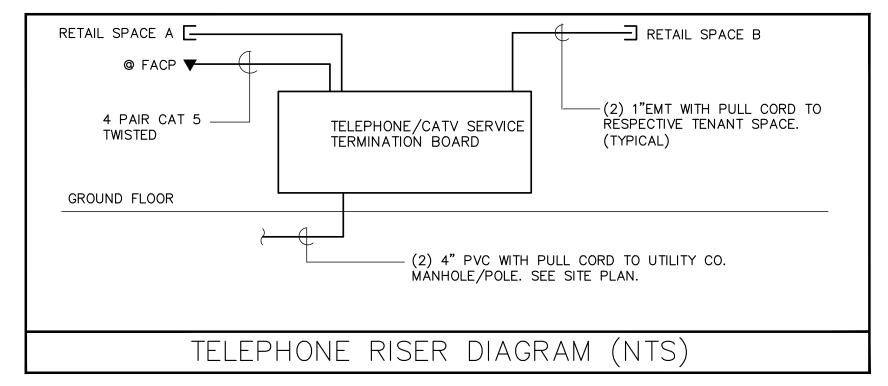
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CONNECT ALL EXIT SIGNS AND EMERGENCY
BATTERIES TO LOCAL LIGHTING CIRCUIT AHEAD
OF ANY CONTROLS TYPICAL FOR ALL AREAS

EXACT LOCATION AND TYPES OF ALL LIGHTING FIXTURES, MOUNTING HEIGHTS AND MOUNTING DETAILS SHALL BE COORDINATED WITH ARCHITECTURAL REFLECTED CEILING PLANS AND ANY CONFLICTS SHALL BE BROUGHT TO ARCHITECT'S ATTENTION PRIOR TO ANY WORK DONE. OBTAIN LATEST COPY OF THE CEILING PLAN FROM ARCHITECT PRIOR TO ANY WORK DONE.

TO MEET IECC CONTRACTOR SHALL PROVIDE IN EACH SPACE (EXCEPT CORRIDORS, BATHROOMS AND UTILITY/MECHANICAL ROOMS), CEILING MOUNTED OCCUPANCY SENSOR TO CONTROL LIGHTS IN THE SPACE. INSTALL SELF CONTAINED TYPE OR RELAY TYPE CEILING MOUNT SENSORS AS REQUIRED TO MATCH LOAD AND VOLTAGE CHARACTERISTICS. LOCATE SENSOR IN CEILING AWAY FROM THE DOOR NOT TO PICK UP NUICANCE ACTIVATION.

IN AREAS WHERE FIXTURES ARE MOUNTED INTO INSULATED CEILINGS, THIS CONTRACTOR SHALL PROVIDE HOODS, 3" LARGER THAN FIXTURES TO KEEP INSULATION AWAY FROM THE FIXTURES AND TO MAINTAIN INSULATION INTEGRITY OF THE CEILING, SEE ARCHITECTURAL DRAWINGS FOR AREAS WHERE THESE HOODS MAY BE REQUIRED.



PANEL SCHEDULE								
ITEM	VOLT/PHASE/WIRE	MLO	мсв	CIRC	F: Flush S: Surf.	P: Plug B: Bolt	BRANCH BREAKERS SPC=SPACE SPC=SPACE	
PANEL TP-A	120-208/1/3	200	_	42	S	В	(1)60/3, (1)50/2, (2)40/2, (1)30/2, (2)20/2, (29)20/1	
PANEL TP-B	120-208/3/4	200	_	42	S	В	(1)40/3, (1)20/2, (30)20/1	

	LIGHT FIXTURE SCHEDULE							
TYPE	MANUFACTURER	CATALOG NUMBER	VOLT	LAMP	DESCRIPTION			
	LITHONIA	CPX 2X2 3200LM 80CRI 40K SWL MIN10 ZT MVOLT	120	LED	2X2 RECESSED LIGHT (FOR EMERGENCY LIGHT PROVIDE (E10WLCP) OPTION			
	LITHONIA	WL430L	120	LED	4' UTILITY LIGHT (FOR EMERGENCY LIGHT PROVIDE (EL14L) OPTION			
P	CARRY \$100/- PER	FIXTURE	120	LED	EXTERIOR WALL MOUNTED			
0	CARRY \$100/- PER	FIXTURE	120	LED	EXTERIOR DOWN LIGHT			
Ø	EMERGI-LITE	LEDPXN1/2R	120	_	EXIT SIGN WITH BUILT-IN BATTERY			



71B CLINTON ST Malden, MA 02148 Tel: 617 318-6056

PROJECT NAME

483 BROADWAY - SOMERVILLE, MA 02145

CLIENT

JOHN WOOD

PROJECT TEAM

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Engineer Nazieh R. Hammouri (857) 312-9212

Description		Date
Issued for permit	1	2/10/2020
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	Issued for permit Issued for permit	Issued for permit 1 Issued for permit 0

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DRAWING TITLE

ELECTRICAL

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DETAILS

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DATE OF ISSUE

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DESCRIPTION

As indicated MP

SCALE DRAWN BY

479J 479J

PROJECT # FILE NAME

DRAWING NUMBER

ELECTRICAL SPECIFICATIONS

1.1 General

- A. The General Conditions and Drawings issued for this Project shall be considered as part of the Electrical Specifications.
- B. The term "This Contractor" as used under this Section and wherever used on the Drawings shall mean the Electrical Contractor.

1.2 Scope of Work

A. The work under this Specification includes the furnishing of all labor and material as specified herein and as shown on the Drawings necessary to install a complete and ready for operation. Manufacturer's catalogue numbers are shown for reference purposes only. They are meant to provide a general description of the design and quality of materials required. Equivalent products by other manufacturers will be considered.

1.3 Codes and Specifications

- A. The work shall be conducted in accordance with the latest rules and regulations of the State of MASSACHUSETTS and the local codes as most recently issued, OSHA codes, National Electrical Codes and NFPA.
- B. All exposed wiring shall be in electric metallic tubing. All concealed wiring shall be in accordance with local codes.
- C. All branch circuit conductors shall be copper, minimum #12 AWG size THHN or THWH as required, 600V rated.
- D. All feeder conductors shall be copper, AWG size as noted XHHW insulation, 600V.

1.4 Coordination of Work

- A. The Contractor shall schedule and coordinate his work with all trades involved to insure proper installation and operation.
- B. The Contract Drawings are diagrammatic only and indicate the extent, general locations and arrangement of the piping and wiring of equipment. The exact locations shall be coordinated with Architectural Drawings and Documents of other trades.
- C. This Contractor shall verify fixture mounting and location against plans, elevations and detail drawings. Exact location of all fixtures shall be confirmed with owner's representative prior to rough—in.
- D. Submit Shop Drawings and product data within thirty (30) days after award of the Contract. Check, stamp and mark with project name submittals before transmitting to Architect. Indicate deviations from Contract Documents.
- E. This Contractor shall give notices, file plans, obtain permits and licenses, pay fees and back charges, and obtain the necessary approvals from authorities that have jurisdiction.
- F. Material and equipment shall be UL, ASME and AGA approved for intended service.
- G. Guarantee work in writing for one year from date of final acceptance. Repair or replace defective materials or installation at no cost to Owner. Correct damage caused in making necessary repairs and replacements under guarantee at no cost to the Owner.
- H. Submit guarantee to Architect before final payment.



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PROJECT NAME

483 BROADWAY - SOMERVILLE, MA 02145

CLIENT

JOHN WOOD

PROJECT TEAM

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No.	Description		Date
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ELECTRICAL

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SPECIFICATIONS

March 31, 2021 DATE OF ISSUE

Issued for progress
DESCRIPTION

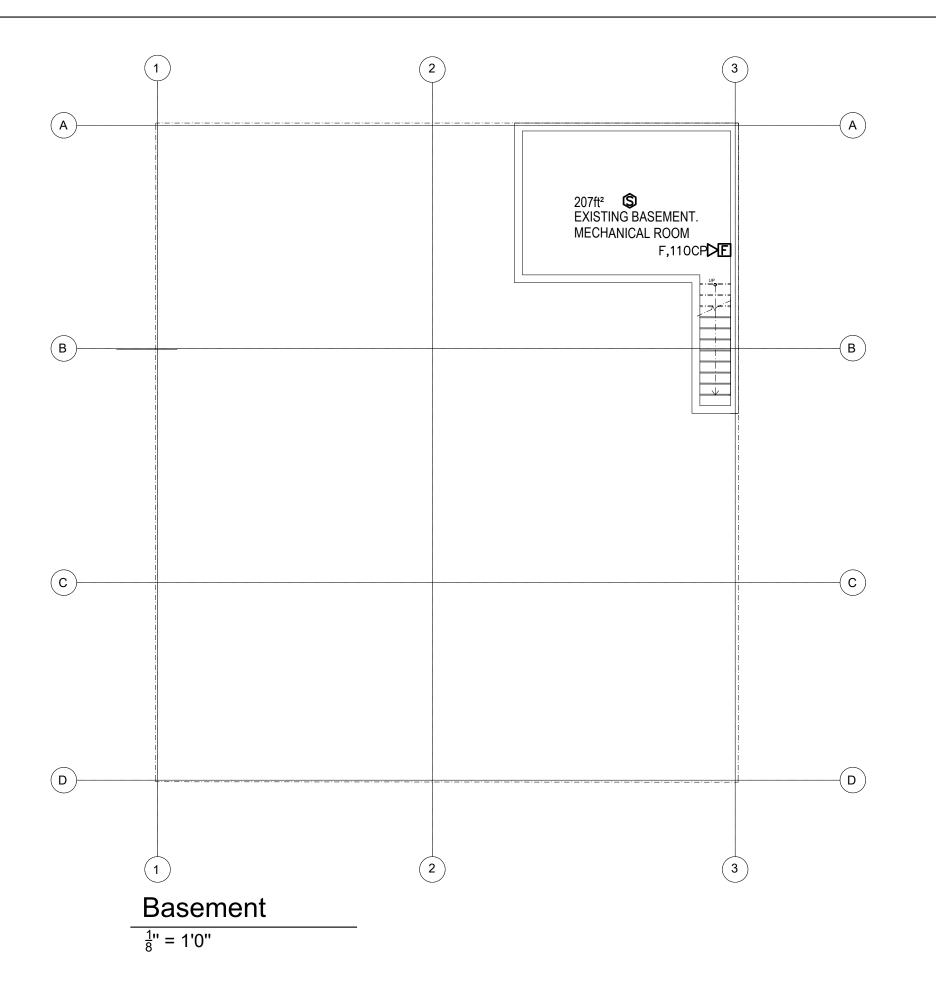
As indicated

SCALE 479J

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PROJECT# FILE NAME

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PROJECT NAME

483 BROADWAY - SOMERVILLE, MA 02145

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DRAWING TITLE

BASEMENT

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FIRE ALARM PLAN

DRAWN BY

March 31, 2021

DATE OF ISSUE

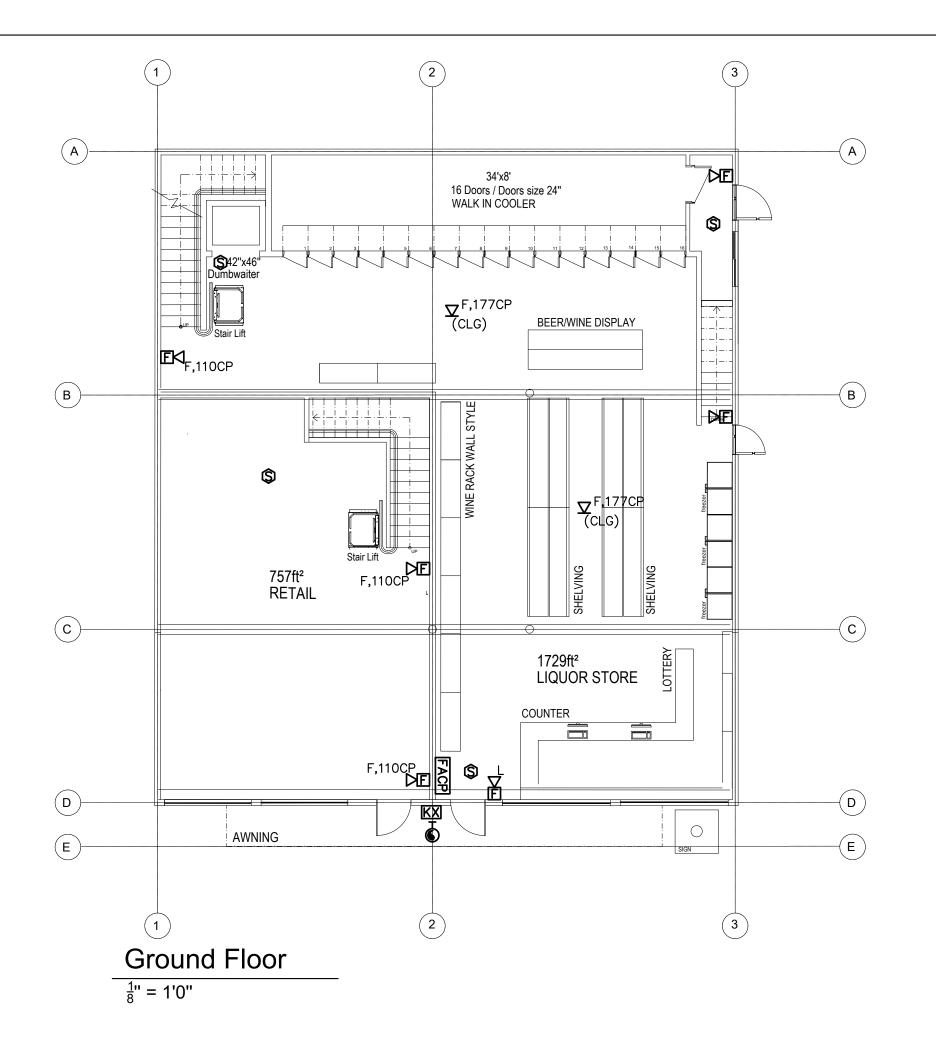
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SCALE 479J

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PROJECT # FILE NAME

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PROJECT NAME

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DRAWING TITLE

GROUND FLOOR

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FIRE ALARM PLAN

DRAWN BY

479J

March 31, 2021

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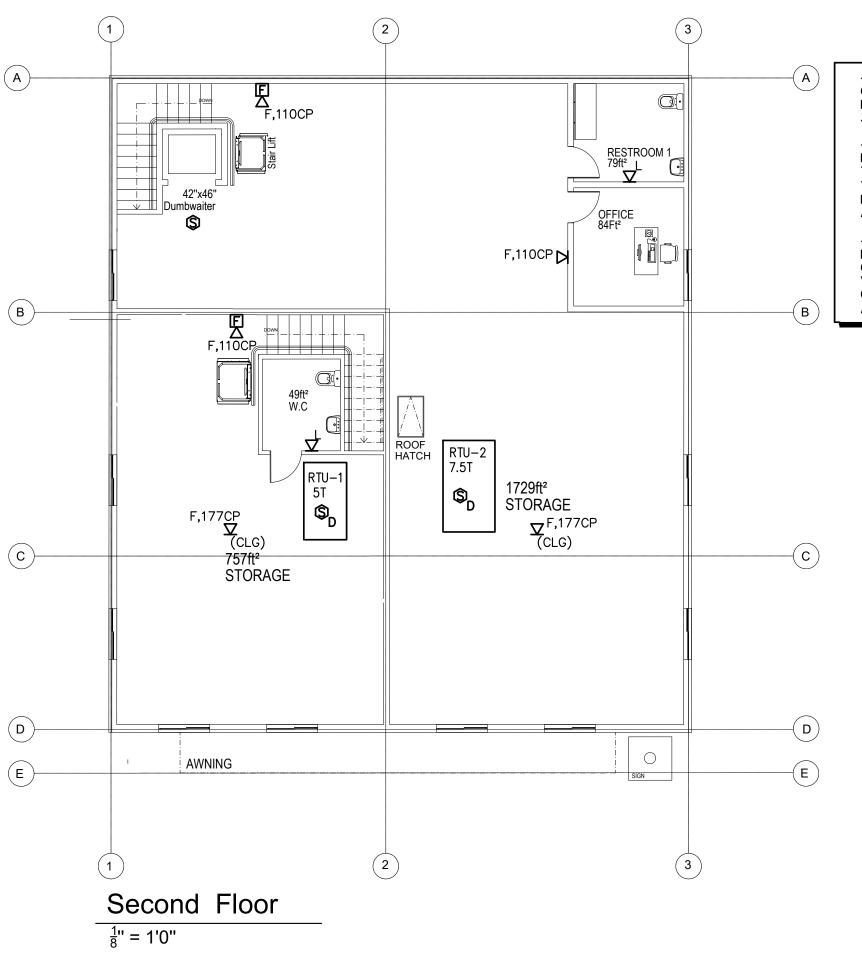
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DESCRIPTION
As indicated

SCALE 479J

PROJECT # FILE NAME

DRAWING NUMBER



-ALL SMOKE DETECTOR LOCATIONS SHALL BE COORDINATED WITH LIGHTING AND HVAC PLANS IN FIELD SO THAT DETECTORS SHALL BE MINIMUM 3FT AWAY FROM SUPPLY DIFFUSER.

-DUCT SMOKE DETECTORS SHALL BE INSTALLED IN HEATED AREAS AT THE SUPPLY SIDE BEFORE THE FIRST TAKE OFF, MINIMUM 5FT AWAY FROM THE UNIT COIL. REMOTE TEST/INDICATOR LOCATIONS SHALL BE NEXT TO FACP PANEL OR AS DIRECTED BY THE FIRE DEPARTMENT.

-A/V DEVICE LOCATIONS ARE SHOWN BASED ON DISTANCE REQUIREMENTS. CONTRACTOR SHALL COORDINATE PHYSICAL STRUCTURES SO THAT VISIBILTY WILL BE MAINTAINED. PROPOSED CHANGES SHALL BE FORWARDED TO ARCHITECT/ENGINEER FOR APPROVAL.



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PROJECT NAME

483 BROADWAY - SOMERVILLE, MA 02145

CLIENT

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DRAWING TITLE

FIRST FLOOR

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FIRE ALARM PLAN

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479J

March 31, 2021 DATE OF ISSUE

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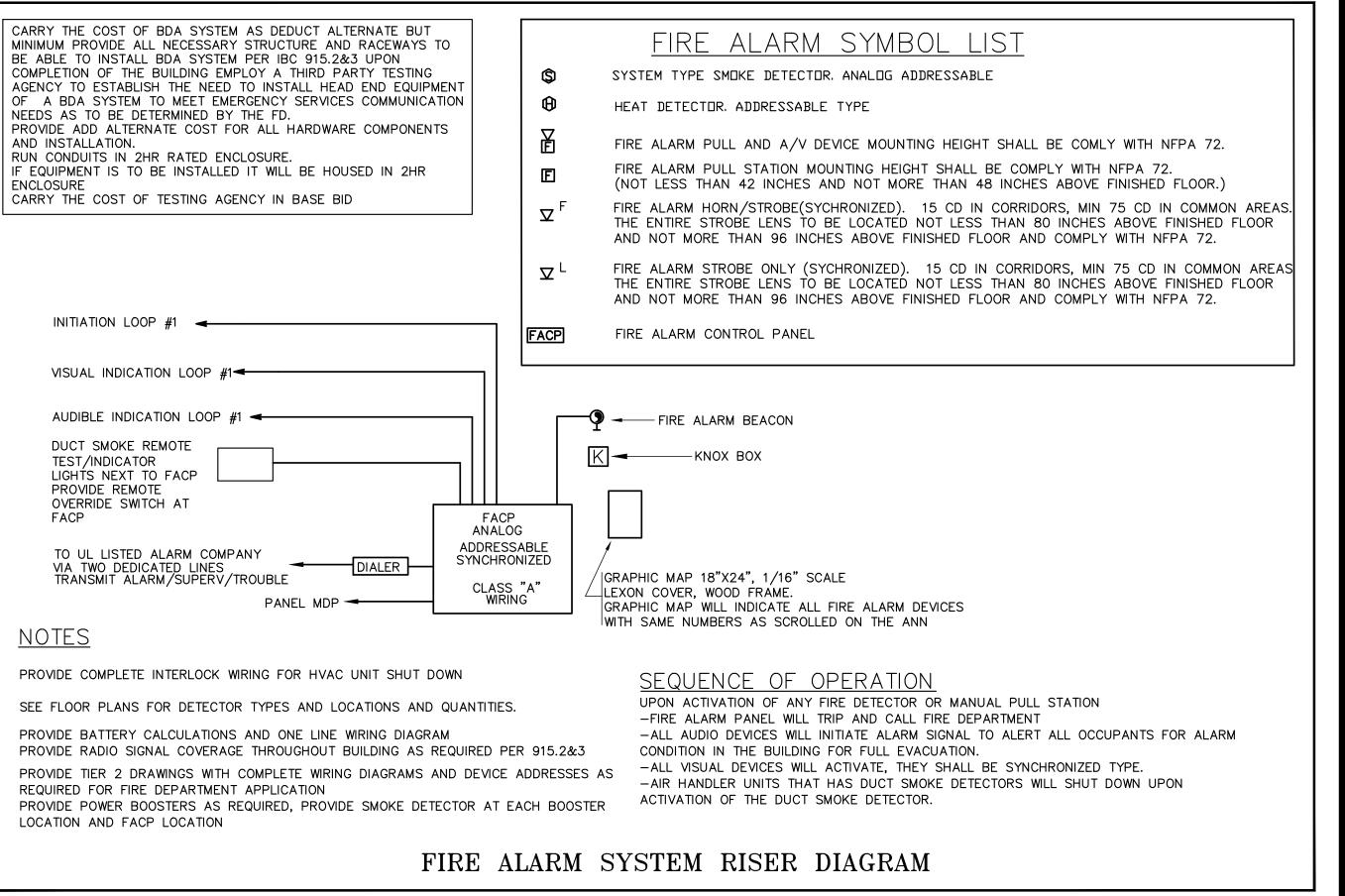
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FIRE ALARM

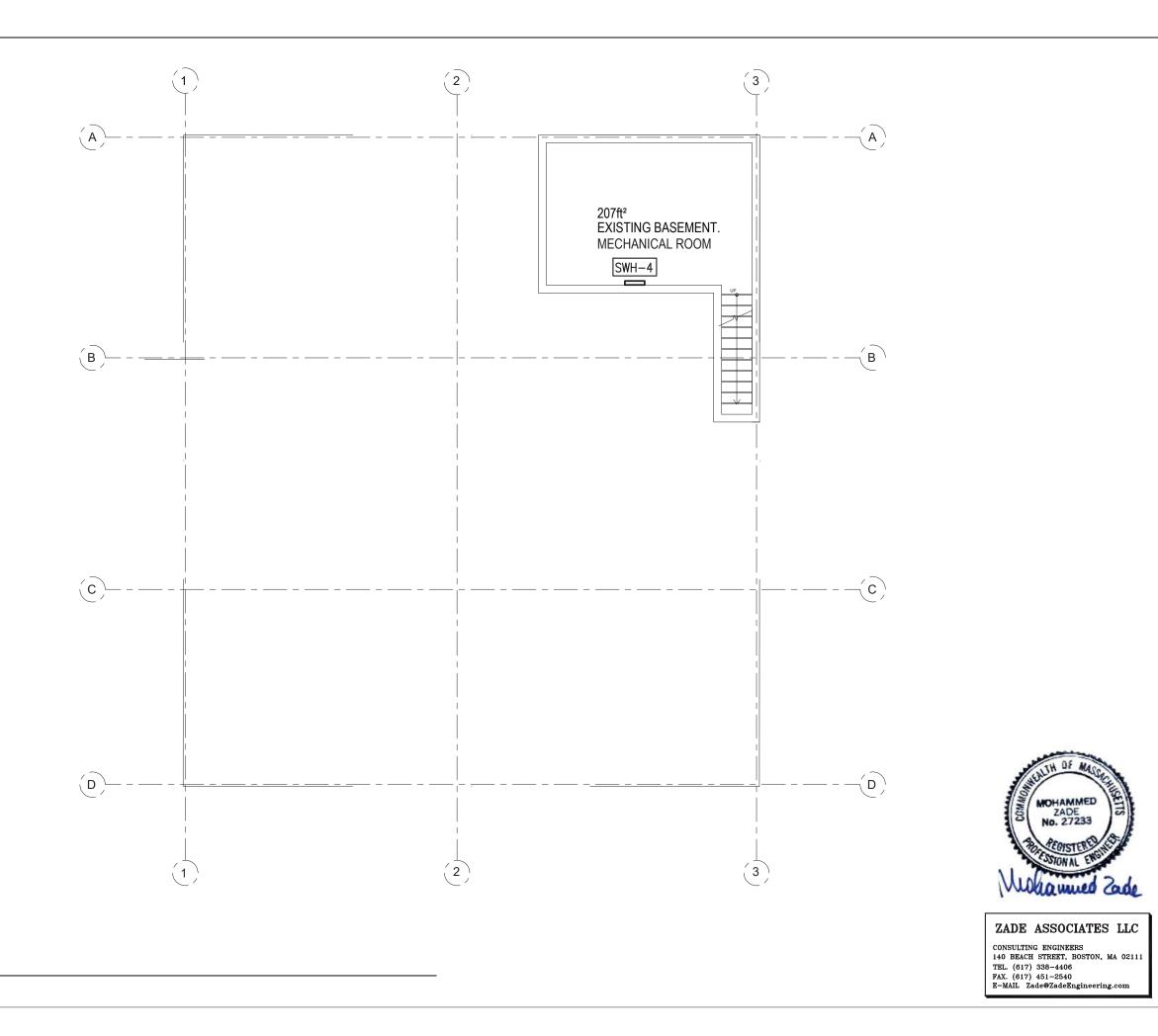
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March 31, 2021

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Basement

 $\frac{1}{8}$ " = 1'0"



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DRAWING TITLE

BASEMENT HVAC PLAN

DRAWING INFORMATION

December 30, 2020

DATE OF ISSUE

Issued for permit

DESCRIPTION

As indicated

SCALE 479J

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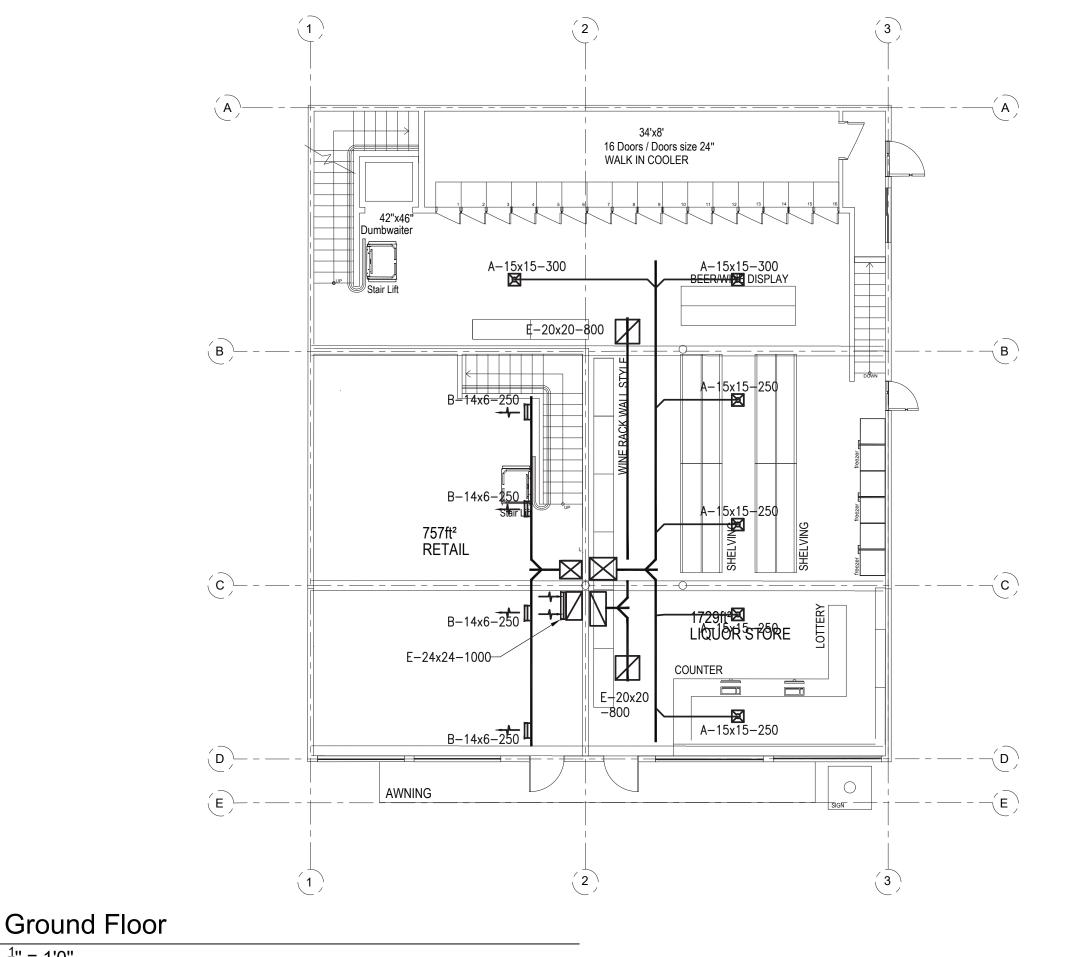
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PROJECT #

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H101





PROJECT NAME

483 BROADWAY - SOMERVILLE, MA 02145

JOHN WOOD

PROJECT TEAM

Architect Nathália Quirino 857 888-1216

Description Issued for permit Date 12/10/2020 Issued for permit 04/19/2021 02 Issued for Permit 10/052021

Engineer Nazieh R. Hammouri (857) 312-9212

DRAWING TITLE

FIRST FLOOR **HVAC PLAN**

DRAWING INFORMATION

December 30, 2020

DATE OF ISSUE

Issued for permit

DESCRIPTION

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PROJECT#

SCALE 479J

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FILE NAME

DRAWING NUMBER

H102

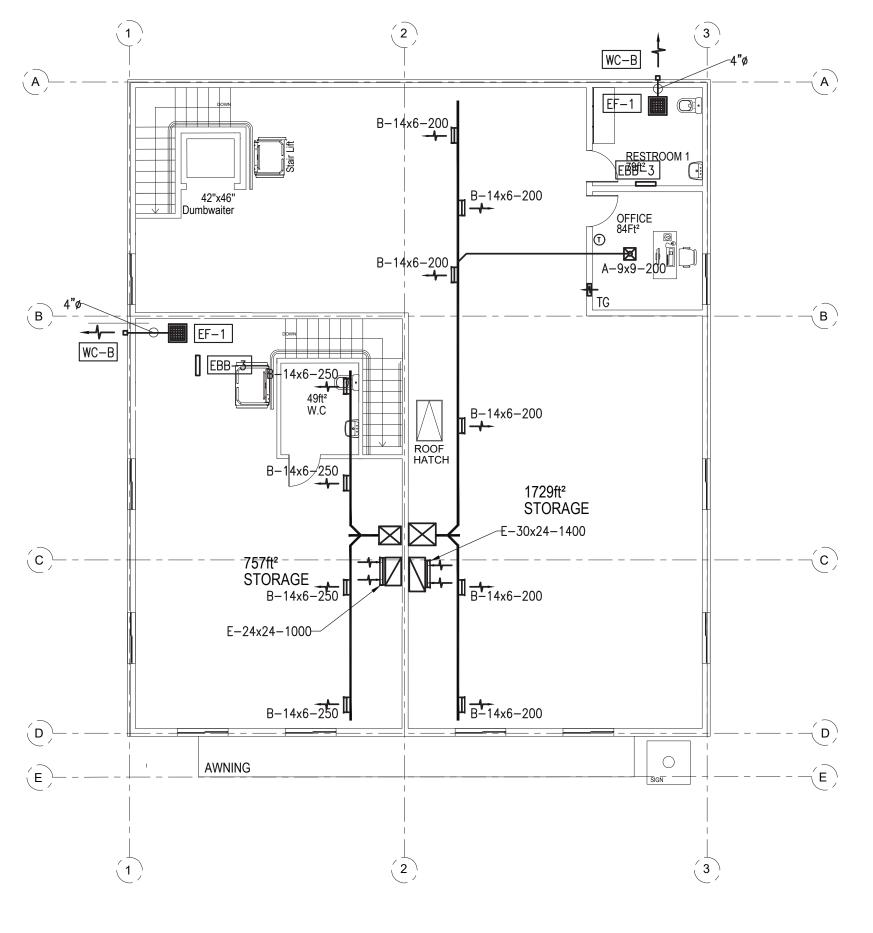
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 $\frac{1}{8}$ " = 1' $\overline{0}$ "





PROJECT NAME

483 BROADWAY - SOMERVILLE, MA 02145

JOHN WOOD

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DRAWING TITLE

SECOND FLOOR **HVAC PLAN**

DRAWING INFORMATION

December 30, 2020

DATE OF ISSUE

Issued for permit

DESCRIPTION

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SCALE 479J

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H103

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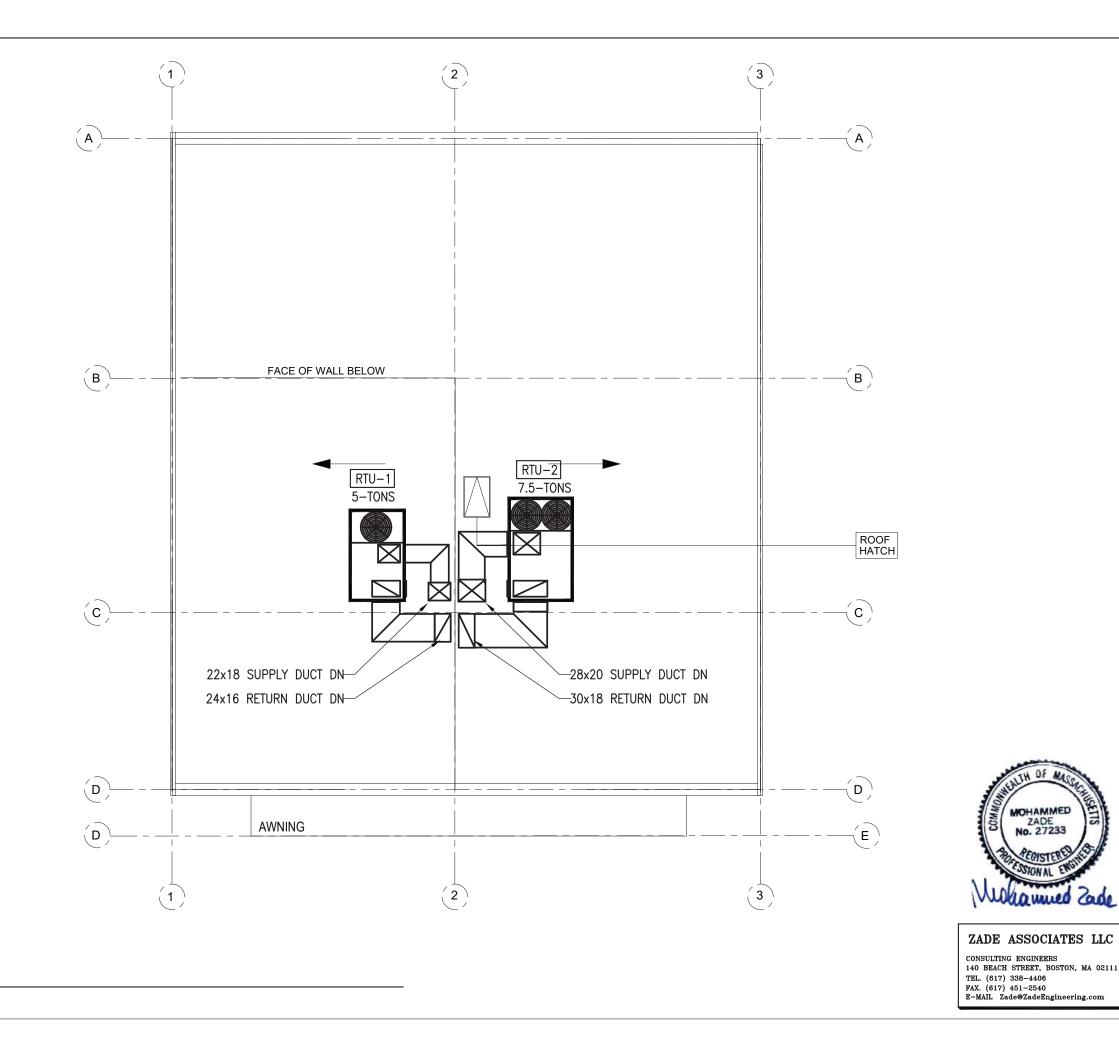
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MOHAMMED ZADE No. 27233

hanned Zade

 $\frac{1}{8}$ " = 1'0"

Second Floor



Roof Floor

 $\frac{1}{8}$ " = 1' $\overline{0}$ "



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PROJECT NAME

483 BROADWAY - SOMERVILLE, MA 02145

JOHN WOOD

PROJECT TEAM

Architect Nathália Quirino 857 888-1216

Engineer Nazieh R. Hammouri (857) 312-9212

No.	Description	Date
	Issued for permit	12/10/2020
01	Issued for permit	04/19/2021
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DRAWING TITLE

ROOF **HVAC PLAN**

DRAWING INFORMATION

December 30, 2020

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GENERAL NOTES

- 1. PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO EXECUTE THE WORK SHOWN AND DESCRIBED. INSTALLATION OF MATERIALS SHALL MEET ALL APPLICABLE STATE. FEDERAL AND MUNICIPAL REQUIREMENTS.
- 2. OBTAIN PERMITS AND PAY ALL FEES FOR WORK AND REQUIRED INSPECTIONS.
- 3. MAINTAIN LIABILITY INSURANCE TO PROTECT OWNER AND THE CONTRACTOR FROM ANY AND ALL CLAIMS UNDER THE WORKER'S COMPENSATION ACT.
- 4. THE DRAWINGS SHALL CONSIDERED DIAGRAMMATIC ONLY. ALL MEASUREMENTS SHALL BE TAKEN FROM BUILDING SITE AND ARCHITECT'S DRAWINGS.
- 5. PROVIDE TEMPORARY MATERIAL STORAGE AS REQUIRED AND BE RESPONSIBLE FOR ANY LOSS OR DAMAGE THERETO.
- 6. SUBMIT DIGITAL COPIES OF SHOP DRAWINGS FOR REVIEW COVERING MAJOR MANUFACTURED ITEMS, IE. AIR HANDLING UNITS, REGISTERS & DIFFUSERS, WIRING DIAGRAMS, ETC.
- 7. KEEP ACCURATE RECORD OF "AS-BUILT" DRAWINGS AND SUBMIT THESE BEFORE FINAL CERTIFICATE OF COMPLETION.
- 8. ON COMPLETION OF THE WORK, REMOVE FROM THE PREMISES ALL TOOLS, DEBRIS, SURPLUS AND WASTE MATERIALS RESULTING FROM OPERATIONS UNDER THIS SECTION. CLEAN ALL EQUIPMENT AND LEAVE ALL ITEMS IN PERFECT ORDER READY FOR OPERATION.
- 9. AFTER ACCEPTANCE, INSTRUCT OWNER IN EQUIPMENT OPERATION AND PROVIDE HIM WITH OPERATING AND MAINTENANCE MANUALS STANDARDS AND EXTENDED WARRANTY DOCUMENTS, INSPECTION CERTIFICATES AND COPIES OF SHOP DRAWINGS OF INSTALLED EQUIPMENT.
- 10. THE CONTRACTOR SHALL, BEFORE FINAL PAYMENT IS MADE, GUARANTEE ALL MATERIALS AND WORKMANSHIP SUPPLIED BY HIM IN THE PERFORMANCE OF THIS CONTRACT FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE AND SHALL, WHEN CALLED UPON, MAKE GOOD WITHOUT FURTHER COST TO THE OWNER SUCH DEFECTS AS MAY APPEAR WITHIN THIS PERIOD.
- 11. SUPPLY AND INSTALL DUCTWORK AS INDICATED ON DRAWING. DUCTWORK SHALL BE FABRICATED AND INSTALLED IN STRICT ACCORDANCE WITH LATEST ASHRAE & SMACNA STANDARDS AND SHALL BE MANUFACTURED OF GALVANIZED STEEL UNLESS SPECIFICALLY NOTED OTHERWISE.
- 12. ADJUST ALL FAN SPEEDS TO DELIVER SHOWN AIR QUANTITIES, BALANCE ALL AIR SYSTEMS AND SUPPLY WRITTEN AIR BALANCING REPORTS IN TRIPLICATE. INCLUDE NECESSARY SPARE BELTS AND PULLEYS FOR FIELD ADJUSTMENT.
- 13. ALL VALVES AND FITTINGS SHALL BE SUITABLE FOR THIS PARTICULAR PIPING APPLICATION AND MINIMUM 150LBS PRESSURE RATING.

- 14. ALL DUCTWORK SHALL BE: 24 GAUGE UP TO 36 INCHES WIDE, 22 GAUGE 31 INCHES WIDE TO 60 INCHES WIDE. ROUND DUCT SHALL BE 24 GAUGE UO TO 10 INCHES DIAMETER, 22 GAUGE 11 TO 20 INCHES DIAMETER, 20 GAUGE ABOVE 20 INCHJES DIAMETER: ALL GALVINIZED SHEETMETAL. SEAL ALL JOINTS AND SLIPS WITH EC 800 OR OTHER SUITABLE SEALANT. ALL LONGITUDINAL SEAMS SHALL BE PITTSBURG LOCKING TAPE. ALL SLIPS SHALL BE REINFORCED BAR TYPE. FABRICATE AND INSTALL ALL DUCTS IN COMPLIANCE WITH SMACNA STANDARDS FOR LOW PRESURE DUCT CONSTRUCTION.
- 15. ALL DUCT CONNECTIONS TO FAN DRIVEN UNITS SHALL BE MADE WITH A FIREPROOF FLEXIBLE DUCT CONNECTOR.
- BEFORE THE H.V.A.C. SYSTEM IS OPERATED, ALL DUCTS SHALL BE BLOWN OUT & THOUGHLY CLEANED. SYSTEM SHALL BE TEST AT FULL PRESSURE & ALL LEAKS & FAULTS CORRECTED.
- 17. INSTALL ALL PIPING AND VALVES AS HIGH AS POSSIBLE.
- BALANCE THE AIR SYSTEM AS PER ASSOCIATED AIR BALANCING COUNCILS LATEST STANDARDS, SUBMIT BALANCING REPORT FOR ENGINEERS APPROVAL.
- 19. THESE DRAWINGS ARE DIAGRAMMATIC, FIELD CONDITIONS SHALL DETERMINE ACTUAL LOCATION OF ALL PIPING AND DUCTWORK.
- 20. ALL DUCT DIMENSIONS ARE CLEAR INSIDE DIMENSIONS.
- 21. DUCT CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LOCAL MECHANICAL CODE AND THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION DUCT CONSTRUCTION STANDARDS UNLESS OTHERWISE INDICATED IN THESE DRAWINGS OR IN THE SPECIFICATIONS.
- 22. ALL DUCT SUPPORTS SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH SMACNA STANDARDS UNLESS OTHERWISE NOTED.

GENERAL NOTES

SHOULD ANY CONTRADICTION, AMBIGUITY, ERROR, INCONSISTENCY, OMISSION OR INCOMPLETE SYSTEM APPEAR IN OR BETWEEN ANY OF CONTRACT DOCUMENTS THE CONTRACTOR SHALL, BEFORE SUBMITTING THE FINAL BID AND SIGNING THE CONTRACT FOR CONSTRUCTION, NOTIFY THE ARCHITECT AND REQUEST A WRITTEN RESOLUTION AS TO WHICH METHODS OR MATERIALS WILL BE REQUIRED. IN THE EVENT OF CONFLICTING REQUIREMENTS OF STANDARDS. DRAWINGS AND SPECIFICATIONS, THE CONTRACTOR SHALL COMPLY WITH THE MORE STRINGENT REQUIREMENTS. BEFORE SUBMITTING THE FINAL BID AND THE SIGNING THE CONTRACT FOR THE CONSTRUCTION THE CONTRACTOR SHALL OBTAIN A WRITTEN INTERPRETATION FROM THE ARCHITECT, IN NO CASE SHALL THE CONTRACTOR PROCEED WITH THE AFFECTED WORK UNTIL ADVISED BY THE ARCHITECT.

IF THE CONTRACTOR FAILS TO MAKE A REQUEST FOR INTERPRETATION OR RESOLUTION NO EXCUSE WILL BE ACCEPTED FOR FAILURE TO CARRY OUT THE WORK IN A SATISFACTORY MANNER. AS INTERPRETED BY THE ARCHITECT, THIS GENERALLY MEANS THE USE OF THE HIGHEST QUALITY MATERIAL, MOST EXPENSIVE WAY OF PERFORMING WORK AND PROVIDING COMPLETE FUNCTIONING SYSTEM FOR PROPER OPERATION.

EACH AND EVERY TRADE OR SUBCONTRACTOR WILL BE DEEMED TO HAVE FAMILIARIZED THEMSELVES WITH ALL THE CONTRACT DOCUMENTS OF THIS PROJECT, INCLUDING ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL AND SITE WORK, AND TO HAVE VISITED THE SITE, SO AS TO AVOID ERROR, OMISSIONS AND MISINTERPRETATIONS. RELATED INFORMATION MAY BE PROVIDED ON CONTRACT DOCUMENTS OTHER THAN THOSE ASSOCIATED WITH THE SUBCONTRACTOR'S TRADE. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING RELATED WORK OF ALL THE CONTRACT DOCUMENTS. NO ADDITIONAL COMPENSATION WILL BE AUTHORIZED FOR ALLEGED ERRORS. OMISSIONS AND MISINTERPRETATIONS WHETHER THEY ARE A RESULT OF FAILURE TO OBSERVE THIS REQUIREMENT OR NOT.



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HVAC NOTES

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CONSTRUCTION NOTES

- -ALL CEILING MOUNTED HVAC UNITS SHALL BE HUNG FROM STRUCTURAL STEEL WITH SPRING ISOLATORS,
- -PROVIDE FLEXIBLE DUCT CONNECTIONS AT HVAC UNIT, AND ALL FANS
- -PROVIDE ISOLATION VALVES, CONTROL VALVES, DRAIN AND STRAINER FOR ALL WATER BASED HVAC UNITS.
- -PROVIDE SECONDARY DRAIN PAN WITH LEAK DETECTOR TO SHUT DOWN HVAC UNIT.
- -MAINTAIN ACCESS DOORS AND CODE REQUIRED CLEARANCES FOR ALL FILTER REPLACEMENT, EQUIPMENT REPAIR AND ELECTRICAL CONTROLS,
- -PRIOR TO ANY INSTALLATION, COORDINATE CLEARANCES WITH ALL TRADES.
- -ALL CONDENSATE DRAINS SHALL RUN TO NEAREST STORM CONNECTION PROVIDED BY P.C. REFER TO PLUMBING DRAWINGS
- -ALL CONDENSING UNITS SHALL BE MOUNTED ON CONCRETE PAD ON VIBRATION PADS, OR MOUNTED ON SLEEPERS ANCHORED TO ROOF.
- -ALL SPLIT SYSTEM CONDENSER UNITS IF LOCATED AWAY FROM THE BUILDING SHALL BE PIPED UNDERGROUND UP TO BUILDING, PROVIDE MINIMUM 18" COVER.
- -PROVIDE MAINTENANCE PADS MINIMUM 4" HIGH FOR ALL FLOOR-MOUNTED EQUIPMENT PUMPS AND BOILERS.
- -PROVIDE 13 FILTERS FOR ALL INDOOR UNITS, MERV 8 FOR ESTAR/LEED BUILDINGS
- -PROVIDE 11 FILTERS FOR ALL OUTSIDE AIR UNITS, MERV 8 FOR ESTAR/LEED BUILDINGS
- -ALL PIPING CONNECTED TO VIBRATION-ISOLATED EQUIPMENT TO BE ISOLATED BY MEANS OF VIBRATION ISOLATORS, RESILIENT LATERAL SUPPORTS AND RESILIENT PENETRATION SLEEVE /SEALS. THIS APPLIES TO FIRST 50 FEET OF TOTAL PIPE LENGTH OR THE ENTIRE PIPE WITHIN MECH. ROOM (WHICHEVER IS LONGER). PIPES THAT ARE 4" DIAMETER OR LARGER TO BE ISOLATED THROUGHT THE BUILDING REFER TO SPEC SECTION 230548 FOR ADDITIONAL INFORMATION -PROVIDE EXPANSION LOOPS AS REGIRED
- -ALL FRESH AIR DUCTS SHALL HAVE MOTORIZED DAMPERS INTERLOCKED WITH UNIT AND HAVE VOLUME DAMPERS

HVAC CONTRACTOR'S NOTES:

ALL OF THE HVAC WORK IS NOT NECESSARILY SHOWN OR NOTED ON THESE DRAWINGS. THE CONTRACTORS SHALL VISIT THE JOB SITE AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE WORK PROPER TO BIDDING. THOSE ITEMS NOT SHOWN OR NOTED, BUT DEEMED NECESSARY FOR REMOVAL OR RELOCATION BY THE OWNER OR HIS REPRESENTATIVE SHALL BE PART OF THIS CONTRACT. THE SUBMISSION OF THE PROPOSALS SHALL BE CONSIDERED EVIDENCE THAT THE CONTRACTOR HAVE VISITED THE SITE. NO EXTRA PAYMENTS WILL BE ALLOWED, DUE TO EXTRA WORK MADE NECESSARY BY THE CONTRACTOR'S FAILURE TO VISIT THE JOB SITE.

RISE ARCHITECTURE

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INSULATION NOTES

CONTRACTOR SHALL FOLLOW THE MOST STRINGENT INSULATION REQUIREMENT FOR EACH ITEM

THE FOLLOWING SYSTEMS SHALL BE INSULATED.
DUCT LINER SHALL BE CLOSED CELL TYPE, GERM PROOF

IECC 2015 REQUIREMENTS:

- 1. HEATING HOT WATER MAINS AND BRANCHES:
 PIPING < 1" REQUIRES 1 1/2" INSULATION
 PIPING > 1%" REQUIRES 2" INSULATION
- SUPPLY & RETURN DUCTWORK FROM HVAC UNITS: 1 1/2" INSULATION MIN. R-6

LEED/ASHRAE 2013 REQUIREMENTS:

- 1. HEATING HOT WATER MAINS AND BRANCHES:
 PIPING < 1 1/2" REQUIRES 1½" INSULATION
 PIPING > 1½" REQUIRES 2" INSULATION
- 2. SUPPLY & RETURN DUCTWORK FROM HVAC UNITS: 1" INSULATION MIN. R-6

GENERAL INSULATION REQUIREMENTS:

- 1: ALL LINED SUPPLY, RETURN AND TRANSFER DUCTWORK SHALL BE 1" DUCT LINER
 -DUCT INSUALTION SHALL CONTINUE OVER DUCT AT LINED POINT
 -FIRST 10' OF SUPPLY AND RETURN FOR ALL ERU'S AND HVAC UNITS
- 2. CONDENSATE DRAIN: 1"
- 3. ALL DUCTWORK IN CEILING SPACE SHALL HAVE R-6 INSULATION,
- REFRIGERANT PIPING ¾" ARAMFLEX

ALL DUCTWORK ON ROOF OR UNCONDITIONED SPACE SHALL BE INSULATED WITH R-12 INSULATION AND COVERED WITH EPDM ROOFING MATERIAL FOR WATER TIGHT INSTALLATION.

DIFFUSER/REGISTER SCHEDULE								
LEGEND:	(N)- #x# - ### L CFM DIMENSIONS TYPE							
TYPE	DESCRIPTION	MODEL (BASED ON TITUS)						
A	LOUVER FACE CEILING DIFFUSER FOR SHEET ROCK CEILING INSTALLATION. PROVIDE ROUND TO SQUARE ADAPTOR. WITH OPPOSIBLE BLADE DAMPER	TITUS TDCA, BORDER 1						
A1	LOUVER FACE CEILING DIFFUSER FOR 2'x2' LAY—IN CEILING INSTALLATION. PROVIDE ROUND TO SQUARE ADAPTOR. WITH OPPOSIBLE BLADE DAMPER	TITUS TDCA, BORDER 3						
В	DOUBLE DEFLECTION REGISTER FOR SHEET ROCK INSTALLATION. PROVIDE ROUND TO SQUARE ADAPTOR.	TITUS 272RS						
E	DOUBLE DEFLECTION GRILLE FOR SHEET ROCK NSTALLATION. WITH OPPOSIBLE BLADE DAMPER	TITUS 25 RS						
E1	DOUBLE DEFLECTION GRILLE FOR SHEET ROCK NSTALLATION. WITH OPPOSIBLE BLADE DAMPER ALUMINUM TYPE	TITUS 25 RS						
F	PERFORATED SIGHT PROOF EGGCRATE GRILLE FOR SHEET ROCK CEILING INSTALLATION.	TITUS 45F						
G	LINEAR DIFFUSER, LINEAR STYLE 1 1/2" SLOT SPACING WIDTH, 4 SLOT FOR SHEET ROCK CEILING INSTALLATION. 100 CFM/FT WITH DAMPER, INSULATED PLENUM	TITUS MLR-40, BORDER TYPE 22						



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DRAWING TITLE **HVAC NOTES** DRAWING INFORMATION December 30, 2020 DATE OF ISSUE ssued for permit DESCRIPTION As indicated O.I SCALE DRAWN BY 479.1 479.1 PROJECT# FILE NAME DRAWING NUMBER

HVAC SPECIFICATION

A. SCOPE OF WORK

- 1. NEW ROOFTOP UNITS
- 2. ELECTRIC HEATERS
- 3. DUCTWORK, GRILLES AND INSULATION.
- 4. CONTROLS AND CONTROL WIRING.
- 5. TESTING AND BALANCING.
- 6. PFRMITS.
- 7. GUARANTEE AND WARRANTIES.

B. MATERIALS

- 1. ALL SUPPLY AND RETURN AIR DUCTWORK SHALL BE CONSTRUCTED FROM GALVANIZED SHEET METAL IN ACCORDANCE WITH "SMACNA" STANDARDS.
- SUPPLY DUCTWORK AND OUTSIDE AIR DUCT SHALL BE INSULATED ON OUTSIDE WITH 1" THICK FIBERGLASS INSULATION WITH VAPOR BARRIERS. SUPPLY AND RETURN AIR DUCTWORK SHALL BE LINED WITH 1" FIBERGLASS INSULATION WHERE SHOWN ON DRAWING. INCREASE DUCT SIZE 1' ALL AROUND WHERE LINED.

C. EXECUTION

- BEFORE BIDDING THE JOB CONTRACTOR SHALL VISIT THE JOB SITE AND VERIFY THE EXISITING CONDITIONS. REPORT ADVERSE CONDITIONS IN WRITING TO ARCHITECT.
- INSTALL SMOKE DETECTOR IN RETURN DUCT.
- ALL DUCT SIZES ARE CLEAR INSIDE DIMENSIONS.
- COORDINATE ALL DUCTWORK WITH OTHER DISCIPLINES.
- CONTRACTOR SHALL PROVIDE ALL CONTROLS AND CONTROL WIRING. CONTRACTOR SHALL VERIFY THAT THE THERMOSTAT MATCHES TO THE UNIT. PROVIDE ALL NECESSARY DEVICES TO OPERATE THE SYSTEM AS FOLLOWS:

THERMOSTAT ASSEMBLIES TO BE COILED & ATTACHED TO DUCT OR JOIST FOR INSTALLATION BY TENANT. TOILET ROOM EXHUAST FAN CONTROLLED BY WALL SWITCH.

GUARANTEE ALL WORK AND MATERIAL FOR ONE YEAR FROM THE DATE OF ACCEPTANCE.

FIRE RATED CEILING NOTES:

WHEN DUCT PENETRATE RATED CEILING:

-ALL RECESSED DIFFUSERS AND REGISTERS SHALL HAVE RADIATION DAMPERS.

-ALL UNITS DUCTED TO PLENUM SPACE SHALL HAVE CEILING FIRE DAMPERS TO MEET UL 555C -ALL RETURN DUCTS SHALL BE BELOW THE RATED CEILING, DROPPED CEILING AREAS SHALL

NOT BE RATED CEILING UNLESS SHOWN OTHERWISE

-ALL RETURN AIR GRILLES IN RATED CEILING SHALL HAVE CEILING FIRE DAMPERS

-ALL UNIT DISCHARGES SHALL BE OFFSET TO GET INTO PROPER JOIST SPACES, CARRY TRANSITION PIECE AS NEEDED

-ALL DUCTS LARGER THAN 4"0 DIAMETER SHALL HAVE FIRE DAMPERS AT CEILING PENETRATIONS

CEILING RADIATION DAMPERS

CEILING RADIATION DAMPERS SHALL BE AS MANUFACTURED BY **GREENHECK**

MODEL CRD-1WT FOR SIDE INLET MODEL CRD-2WT FOR TOP INLET

CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE UL LISTED DAMPER WITH THE UL LISTING OF THE CEILING

APPROVED CEILING RATINGS ARE L-528,546,558,562,574,576,581,583,585,592 M-501.503.508

P-533,538,545,547,548,554



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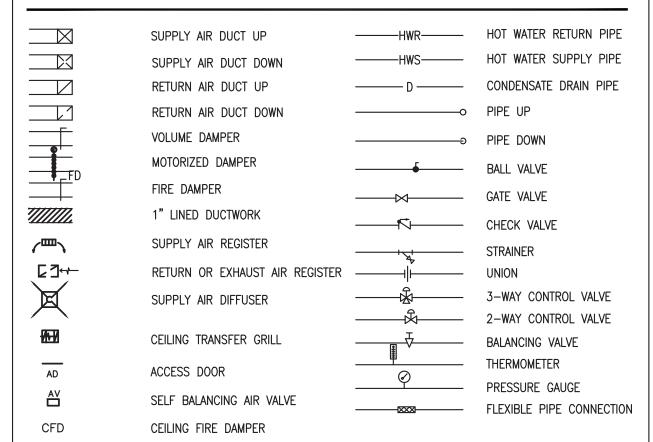
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FILE NAME

LEGEND



EQUIPMENT TAG NUMBERS

EF-# CU-#

EXHAUST FAN

AC-#

CONDENSING UNIT

SPLIT SYSTEM AC UNIT

HVAC-#

AIR HANDLER UNIT

UH-#

UNIT HEATER UNIT

E = EXHAUST RISER

= REFERS TO RISER DIAGRAM

VS = SUPPLY VENTILATION RISER # = REFERS TO RISER DIAGRAM

VS = RETURN VENTILATION RISER # = REFERS TO RISER DIAGRAM

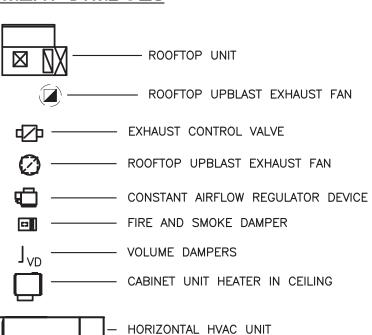
R = CONDENSER WATER RISER # = REFERS TO RISER DIAGRAM

AIR OUTLET + INLET DESIGNATION

→A-6x6-50 SEE SCHEDULE FOR SPECIFIC INFORMATION -

THIS DESIGNATION FORMAT IS TYPICAL FOR ALL DIFFUSERS, GRILLES, AND REGISTERS, LAY-IN OR SURFACE MOUNTED, FOR SUPPLY, RETURN OR EXH.

EQUIPMENT SYMBOLS







ROOF MOUNTED CONDENSING UNIT

CONTROL SYMBOLS

(T) (TS) WALL MOUNTED THERMOSTAT/SENSOR



HUMIDISTAT/SENSOR



LOCAL CONTROL PANEL



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WALL	WALL CAP SCHEDULE										
TAG	BRAND	SIZE	DIMENSIONS	LOCATION	DUCT						
WC-B	X-VENT THVB	4" VENT	7.5"X7.5"X1.5"	BATHROOM EXHAUST	ø4"–NO FLEX						
WC-K	X-VENT THVB	6" VENT	10"x9"X5"	KITCHEN EXHAUST	Ø6" W/FD AT CEILING PENETRATION						
WC-D	X-VENT THVB	4" VENT	7.5"X7.5"X1.5"	DRYER EXHAUST-REMOVE SCREEN	ø4" AL WITH HARD ELBOW						
WC-FA	X-VENT TEVB	6" VENT	7.5"X7.5"X1.5"	FRESH AIR INTAKE	ø6"-INSULATED						

VYNIL COLOR TO MATCH SIDING,

MATCH DUCT SIZE CONNECTED TO UNIT.

ALL EXHAUST DUCTS SHALL HAVE R-6 INSULATION FIRST 10FT FROM EXTERIOR WALL IN

ALL FRESH AIR INTAKE DUCTS SHALL HAVE MOTORIZED DAMPER AT ENVELOPE PENETRATION WITH ACCESS PANEL.

DAMPER SHALL BE INTERLOCKED WITH HVAC UNIT

FOR COMBINED BATHROOMS, USE 6" DUCT AFTER COMBINE AND USE WC-K WALL CAP

COMBINE EXHAUST TO ONE WALL CAP WITH SEPARATE DUCT CONNECTIONS IF LOCATED NEXT TO EACH OTHER COORDINATE WITH ARCHITECT

ENERGY RECOVERY UNITS												
TAG #		EQUIPMENT PERFORMANCE										
17.0 T	CFM	EFF HEAT	EFF COOL	ESP (IN WG)	VOLT	FLA (AMP)	MODEL	DB	ESTAR	HVI	DESIGN	DIMENSIONS
ERU-1	95	%60	%80	0.40	120/1	1.4	PANASONIC-FV-10VEC1	-	YES	YES	IN/OUT OPPOSITE SIDE	28"LX23"WX9-6" DUCT

PROVIDE CONTROLS AS FOLLOWS

-PROVIDE ON/OFF, LOW-HIGH, 20 MINJ ON/40 MIN OFF CYCLER

-PROVIDE MERV 8 FILTER FOR STANDARD DESIGN

CEILING MOUNTED EXHAUST FAN												
TAG	LOCATION	TYPE	DRIVE	CFM	V/ø	LAMP	SP	NOISE SONES	DIMENSIONS	PANASONIC MODEL	ESTAR	CONTROLS
EF-1	BATHROOM	CEILING	DIRECT	110	120/1	(2)PL18	0.1"	0.3	14.5"X17"X11.5"H-16LBS-6" DUCT	FV-05-11VKSL1	YES	HIGH/LOW FAN REQUIRES TWO WALL SWITCHES (HAS LIGHT)

PROVIDE PANASONIC FIRE DAMPER ENCLOSURE FOR ALL CEILING BATHROOM FANS.

ELECTRIC HEATER SCHEDULE										
TYPE	KW	VOLT/PH	DIMENSIONS	MODEL NUMBER-COLOR BY ARCH						
RWH-1	1	120/1		Q'MARK#CRA 1512-T2						
RWH-2	2	120/1	19"HX16"WX4"D	Q'MARK# MCSSARWH1802/HTWHS1						
RWH-4	4	208/1	19"HX16"WX4"D	Q'MARK# MCSSARWH4808/HTWHS1						
SWH-4	4	208/1	19"HX16"WX4"D	Q'MARK# MCSSARWH4808/HTWHSM						
EBB-2	0.4	120/1		Q'MARK#QMK-2512W-W/T'STAT						
EBB-3	0.75	120/1		Q'MARK#QMK-2513W-W/T'STAT						
EBB-4	1	120/1		Q'MARK#QMK-2514W-W/T'STAT						
EBB-6	1.5	120/1		Q'MARK#QMK-2516W-W/T'STAT						
UH-5	5	208/1		Q'MARK#MUH-35-W/T'STAT						
CCH-4	4	208/1		Q'MARK#CDF548-W/T'STAT						



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FIRE SAFE THROUGH FLOORS											
TYPE	SIZE	HILTI	MATERIAL	RATING	воттом	TOP	CHASE WALL				
STEEL/CAST COPPER/EMT	MAX 4"	FS-ONE	INTUMESCENT SEALANT	2HRS	FIRE STOP	FIRE STOP	REQUIRED				
STEEL/CAST 4" EMT/ 2" FLEX	MAX 6" -	FS-ONE	INTUMESCENT SEALANT	2HRS	FIRE STOP	FIRE STOP	NOT REQUIRED				
STEEL/CAST COPPER/EMT	MAX 4"	CP-620	FIRE FOAM	1HRS	FIRE STOP	FIRE STOP	REQUIRED				
PEX	MAX 1"	CP 645	INTUMESCENT STRIP W/COLLAR	1HRS	BOTH SIDES	BOTH SIDES	NOT REQUIRED				
PVC PIPE	MAX 2"	FS-ONE	INTUMESCENT SEALANT	1HRS	FIRE STOP	FIRE STOP	NOT REQUIRED				
PVC PIPE	MAX 4"	FS-ONE	INTUMESCENT SEALANT	2HRS	FIRE STOP	FIRE STOP	REQUIRED				
PVC PIPE	MAX 4"	CP 645	INTUMESCENT STRIP W/COLLAR	1HRS	COLLAR	FIRE STOP	NOT REQUIRED				
REFRIGERANT	-	FS-ONE	INTUMESCENT SEALANT	1HRS	FIRE STOP	FIRE STOP	NOT REQUIRED				
4" DUCT	MAX 4"	FS-ONE	INTUMESCENT SEALANT	1HRS	FIRE STOP	FIRE STOP	NOT REQUIRED				
INSULATED COPPER/STEEL	MAX 2"	FS-ONE	INTUMESCENT SEALANT	1HRS	FIRE STOP	FIRE STOP	NOT REQUIRED				
CABLES	MAX 2"	FS-ONE	INTUMESCENT SEALANT	1HRS	FIRE STOP	FIRE STOP	NOT REQUIRED				

MAIN/BRANCH D	UCT SCHE	DULE
SIZE	MAX. CFM	
6" DIA	100	
7" DIA	150	
8" DIA	200	
9" DIA	300	
10" DIA	400	
8x6	200	
8x8	250	
10x8	300	
12x8	350	
12x8	400	
12x8	450	
14x8	500	
16x8	600	
18x8 OR 16x10	700	
20x8 OR 18x10	800	
24x8 OR 20x10	1000	
30x8 OR 24x10	1200	
NOTE: MAXIMUM FLEXIBLE	DUCT LENGTH	SHALL BE 4'

USE INSULATED SEMI RIGID BUCK DUCT.

STA	STANDARD SPLIT HEAT PUMP SYSTEM SCHEDULE (INDOOR)													
UNIT NO.	MITSUBISHI MODEL	RATED CAPACITY (BTU/H)	SEER	POWER SUPPLY	MCA	FAN MOTOR	AIRFLOW (LOW-MEDIUM HIGH)	SOUND LEVEL (LO-M1-M2-HI)	w	D	н	WEIGHT (LBS)	MAX	AIR TEMP
ACU-1	PKA-A12HA7	12,000	15.3	208/230V 1 PHASE, 60HZ	1.0 A	0.76 F.L.A.	268-328-381 DRY CFM 240-293-342 WET CFM	34-40-45 DB(A)	30-11/16"	8-1/4"	11-3/4"	23	95°FDB 71°FWB	67°FDB 57°FWB

PROVIDE ME HVAC CONTROLLER WALL MOUNTED THERMOSTAT, DISCONNECT SWITCH

S	TANDAR	D SF	PLIT	HEAT	PUM	I P	SY	STEM	SCHE	DUL	E (OU	JTD	OOR)			
UNIT	I MILIOUDIOLII	OALAGILL	SEER	POWER SUPPLY	R.L.A.	MCA	МОСР	Sound Level	w	D	Н			MAX REFRIDGERANT PIPE HEIGHT DIFF (FT)		AIR TEMP
CU-	1 PUZ-A12NHA4	12,000	16	208/1PHASE	DC	14	20	50 DB(A)	31-1/2"	11-1/4"	21-5/8"	88	100	100	D.B. 115° F	D.B. 0° F

WITH EACH UNIT PROVIDE

-3R RATED FUSED DISCONNECT SWITCH BY ELECTRICAL CONTRACTOR

-PROVIDE MOUNTING STAND ABOVE SNOW LINE

-PROVIDE WIND BAFFLE KIT FOR LOW AMBIENT OPERATION



71B CLINTON ST Malden, MA 02148 Tel: 617 318-6056

PROJECT NAME

483 BROADWAY - SOMERVILLE, MA 02145

JOHN WOOD

PROJECT TEAM

Architect Nathália Quirino 857 888-1216

Engineer Nazieh R. Hammouri (857) 312-9212

No.	Description	Date
	Issued for permit	12/10/2020
01	Issued for permit	04/19/2021
02	Issued for Permit	10/052021

DRAWING TITLE

HVAC SCHEDULES

DRAWING INFORMATION



ZADE ASSOCIATES LLC

CONSULTING ENGINEERS 140 BEACH STREET, BOSTON, MA 02111 TEL. (617) 338-4406 FAX. (617) 451-2540 E-MAIL Zade@ZadeEngineering.com

December 30, 2020 DATE OF ISSUE Issued for permit DESCRIPTION As indicated OJ SCALE DRAWN BY 479J 479J PROJECT# FILE NAME DRAWING NUMBER

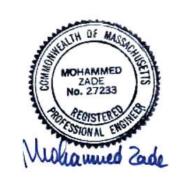
GAS FIRED ROOFTOP UNIT SCHEDULE-208V NOMINAL MIN. O.A. COOLING-MBH EVAP. FAN GAS HEATING-MBH COMPRESSOR AIRFLOW MINIMUM STRETCH MOCP SEER | IPLV MCA EER TAG NO. CAP.-TONS CFM CODE EER CODE CFM SENS. RPM HP INPUT OUTPUT | EFF **TOTAL** ESP RLA LRA RTU-1 5 57.5 2,000 500 46 1.0" 1399 150/120 120 15.9 110 1 1/2 **%**80 12.5 15.2 30.1 45 12.0 YES-15.0/12.0 RTU-2 7 1/2 3,000 750 89 71.2 1.25" 939 224/180 184 (2)13.6 (2)83 2 **%**82 13.0/13.8 43.9 50 12.0 11.3 YES-11.5/11.9

NOTES: PROVIDE PROGRAMMABLE HONEYWELL T-7300 THERMOSTAT WITH LOCK COVER, PREFABRICATED ROOF CURB, 100% O.A. ECONOMIZER WITH ENTHALPY CONTROLLER, FUSED DISCONNECT SWITCH, CONVENIENCE OUTLET. LOW AMBIENT TEMPERATURE CONTROLLER AND RELIEF FAN WITH EACH UNIT.

PROVIDE PRESSURE SENSOR WITH EACH UNIT TO SHUT DOWN UNIT UPON DUCT PRESSURES IN EXCESS OF 2" DUE TO SMOKE DAMPERS

PROVIDE HIGH GAS, TWO STAGE COOLING W/HUMIDI-MIZER, CO2 SENSOR HIGH EFFICIENCY MEDIUM PRESSURE FAN, -E-COAT AL/CU COIL, OPEN MULTI PROTOCOL CONTROLLER, ENTHALPY ECONOMIZER, HACR BREAKER PROVIDE POWER EXHAUST, POWERED CONVENIENCE OUTLET

IECC 2015	POWER	DIMENSIONS	WEIGHT Lbs.	dBA	CARRIER MODEL
YES-15.0/13.0	208V/3ø	75"X47"X42"H	920	78.5	48 HC 06
YES-11.0/11.2	208V/3ø	88"X60"X50"H	1215	80	48 HC 08



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JOHN WOOD

PROJECT TEAM

Architect Nathália Quirino Engineer Nazieh R. Hammouri (857) 312-9212

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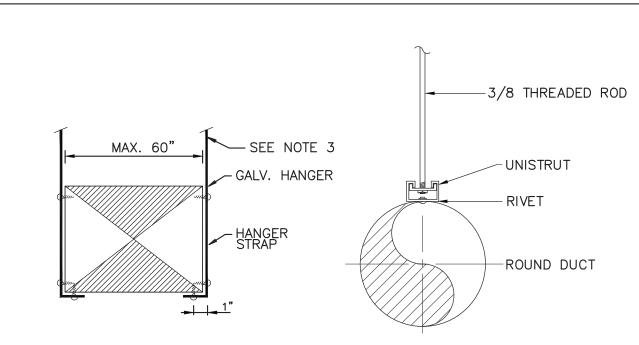
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FILE NAME

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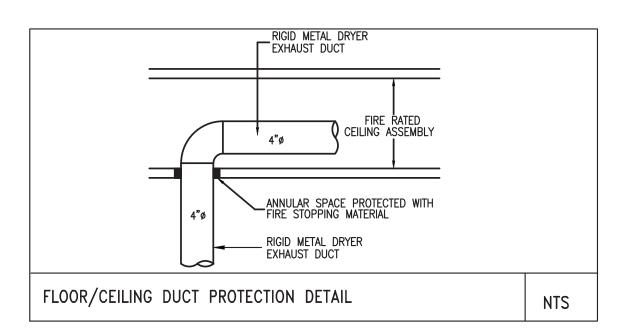
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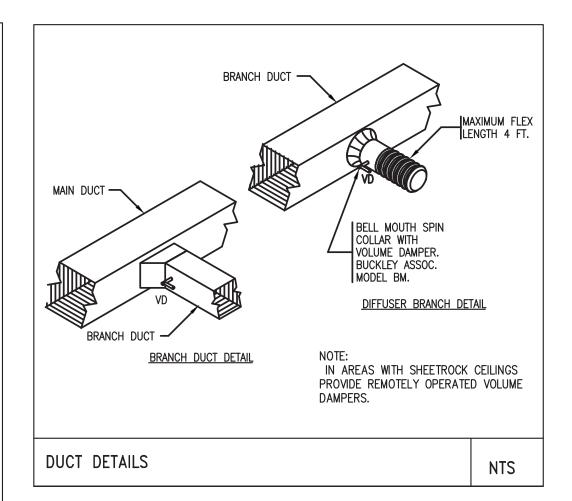


NOTES:

- 1. ON DUCTS OVER 48" WIDE, BOTTOM SHALL BE BRACED BY ANGLE. FOR CROSS SECTION AREA MORE THAN 8 SQ FT, DUCT SHALL BE BRACED BY ANGLES ON ALL FOUR SIDES.
- 2. CUTTING AND PATCHING SHALL BE LIMITED TO A MINIMUM AS REQUIRED FOR PROPER INSTALLATION.
- 3. SUPPORTS SHALL BE SPACED AND SIZED AS PER SMACNA.

DUCT HANGER SUPPORT NTS







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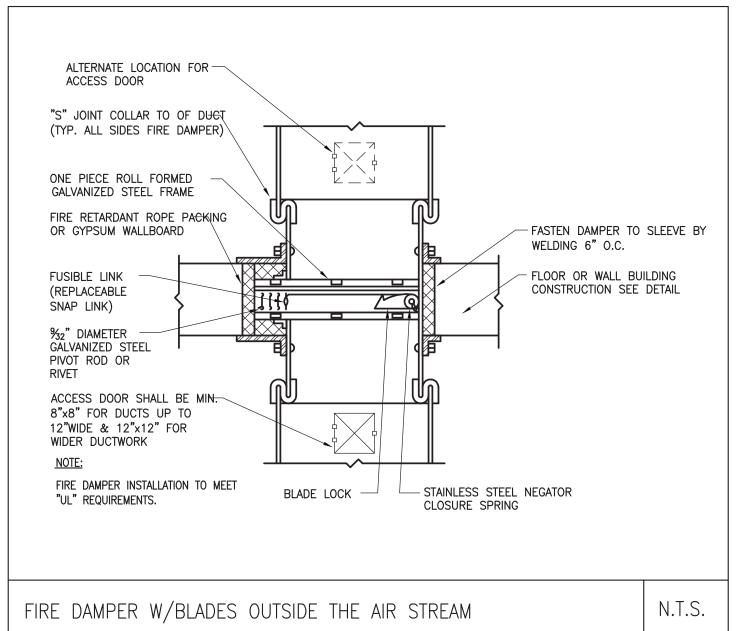
SCALE 479J

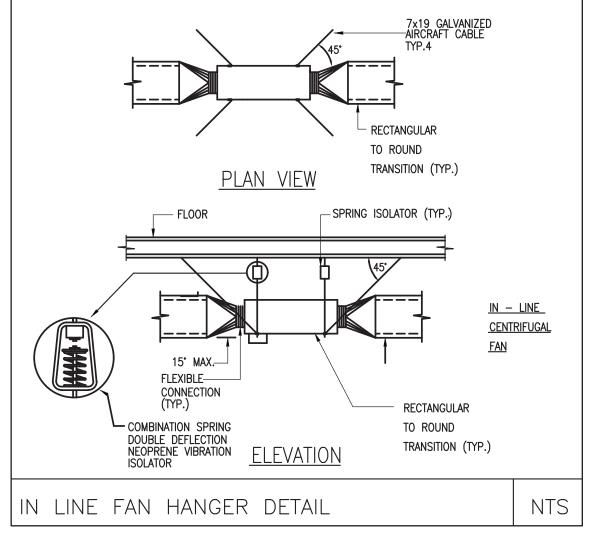
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MOHAMMED No. 27233

ZADE ASSOCIATES LLC

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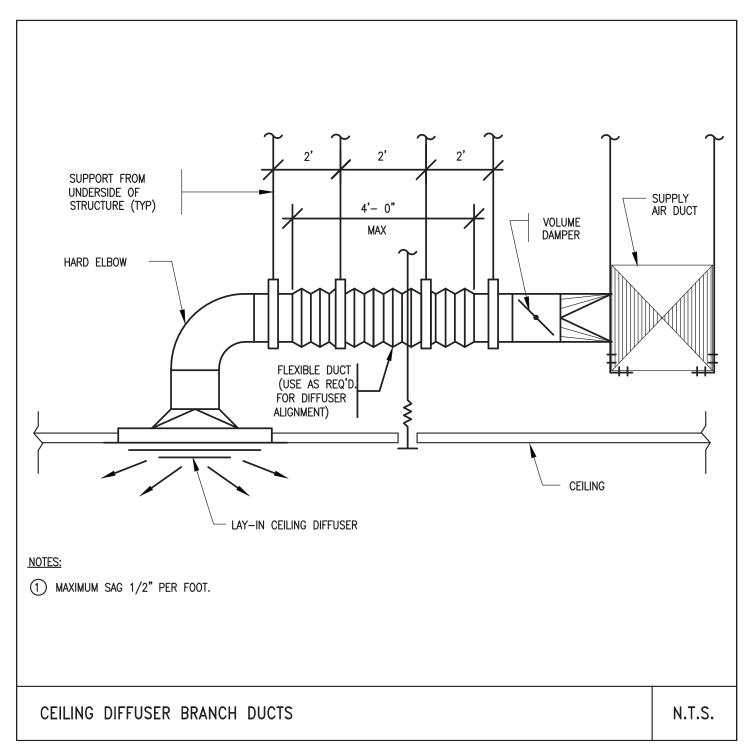
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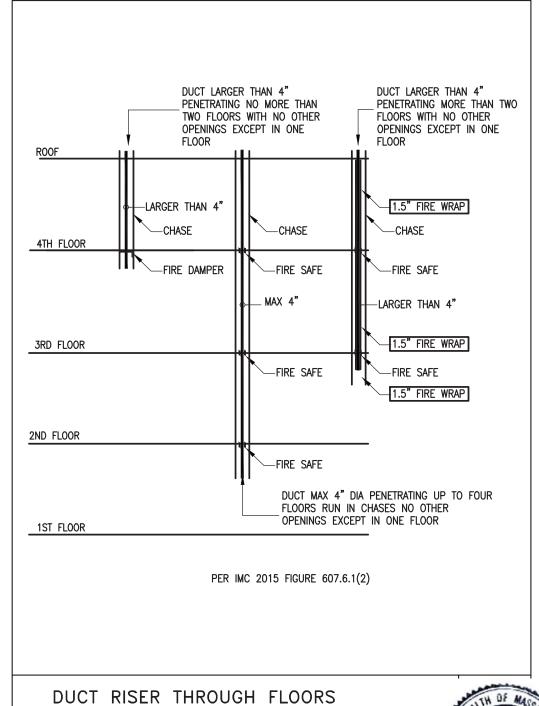
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Engineer Nazieh R. Hammouri (857) 312-9212 Architect Nathália Quirino 857 888-1216

Description
Issued for permit Date 12/10/2020 Issued for permit 04/19/2021 02 Issued for Permit 10/052021

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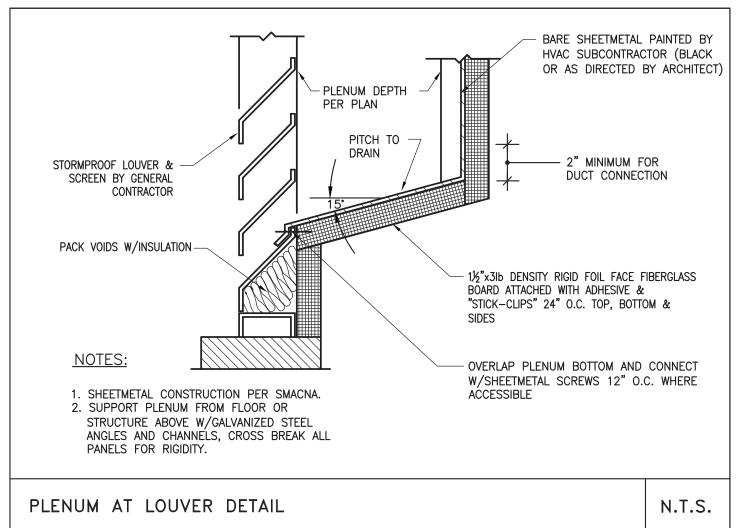
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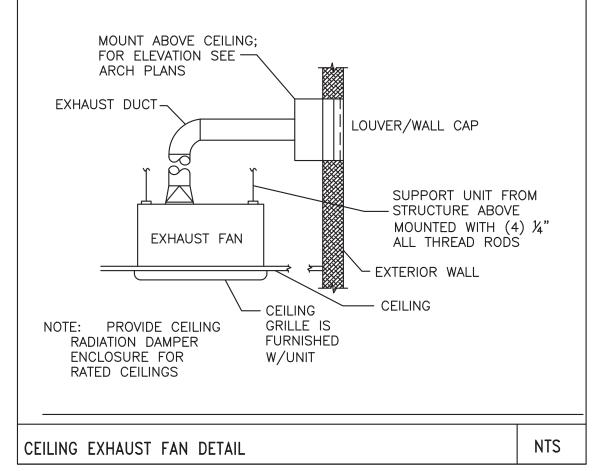
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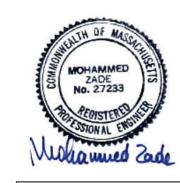
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H211

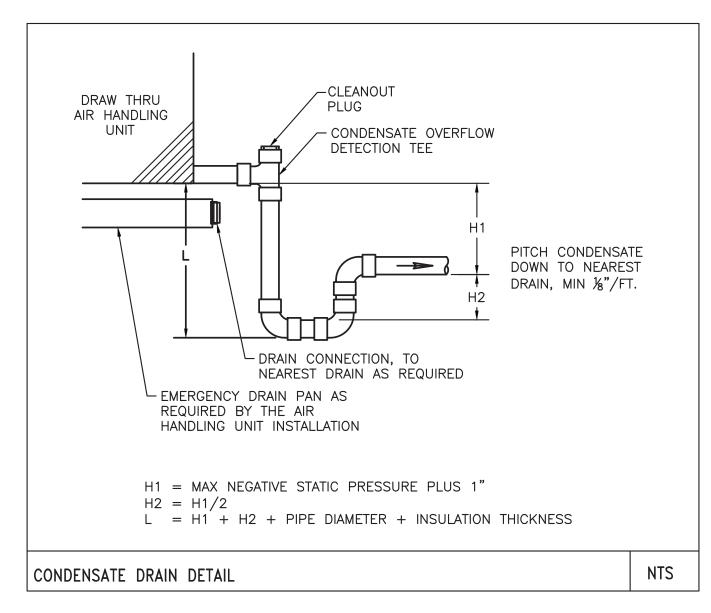
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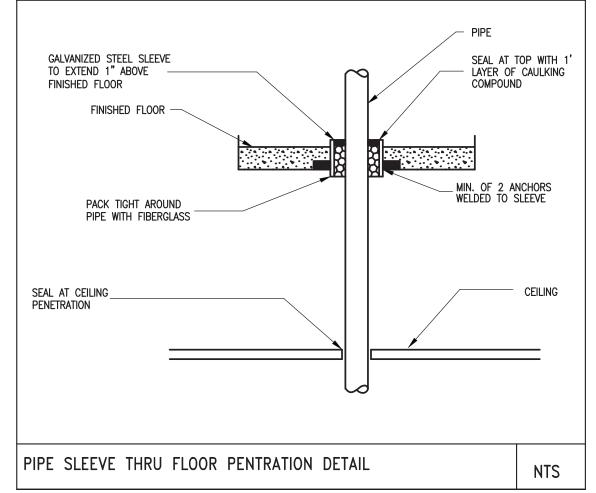
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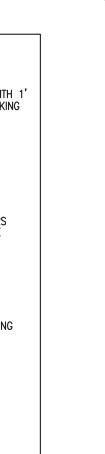
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PROJECT NAME

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CLIENT

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H212

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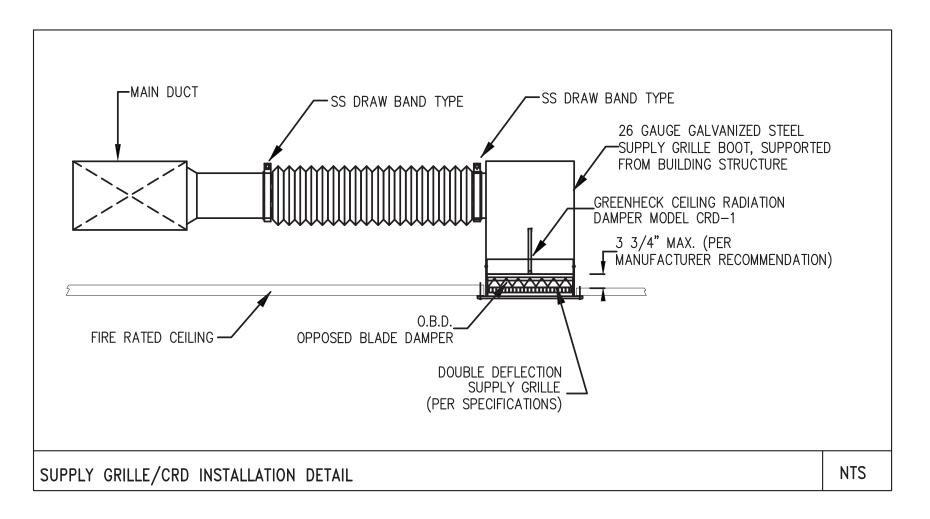
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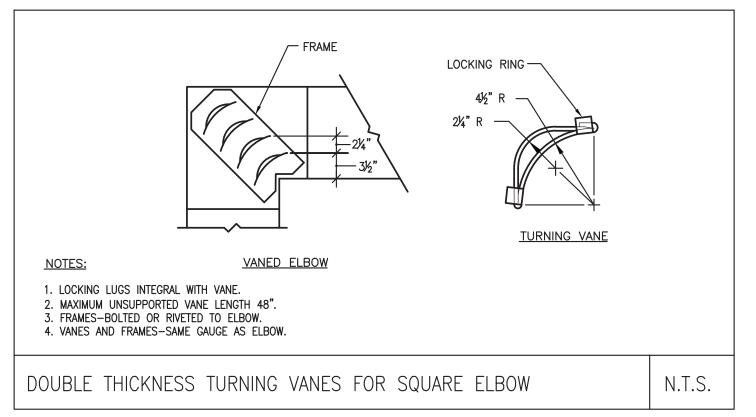
FILE NAME

479J



ZADE ASSOCIATES LLC







PROJECT NAME

483 BROADWAY - SOMERVILLE, MA 02145

JOHN WOOD

PROJECT TEAM

Engineer Nazieh R. Hammouri (857) 312-9212 Architect Nathália Quirino 857 888-1216

> Date 12/10/2020 Issued for permit Issued for permit 04/19/2021

02 Issued for Permit 10/052021

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HVAC DETAILS

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DESCRIPTION

As indicated

479J

PROJECT#

SCALE

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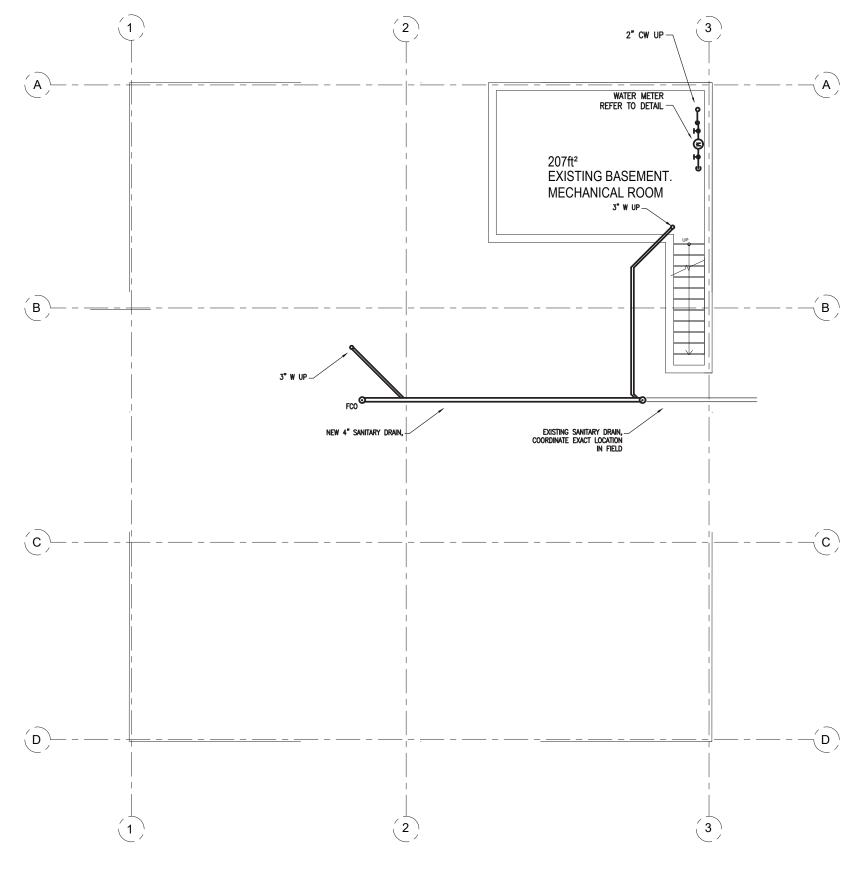
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H213



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PROJECT NAME

483 BROADWAY - SOMERVILLE, MA 02145

JOHN WOOD

PROJECT TEAM

Architect Nathália Quirino 857 888-1216

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No.	Description	Date
	Issued for permit	12/10/2020
01	Issued for permit	04/19/2021
02	Issued for Permit	10/052021

DRAWING TITLE

BASEMENT PLUMBING PLAN

DRAWING INFORMATION

December 30, 2020

MOHAMMED ZADE No. 27233

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DATE OF ISSUE Issued for permit

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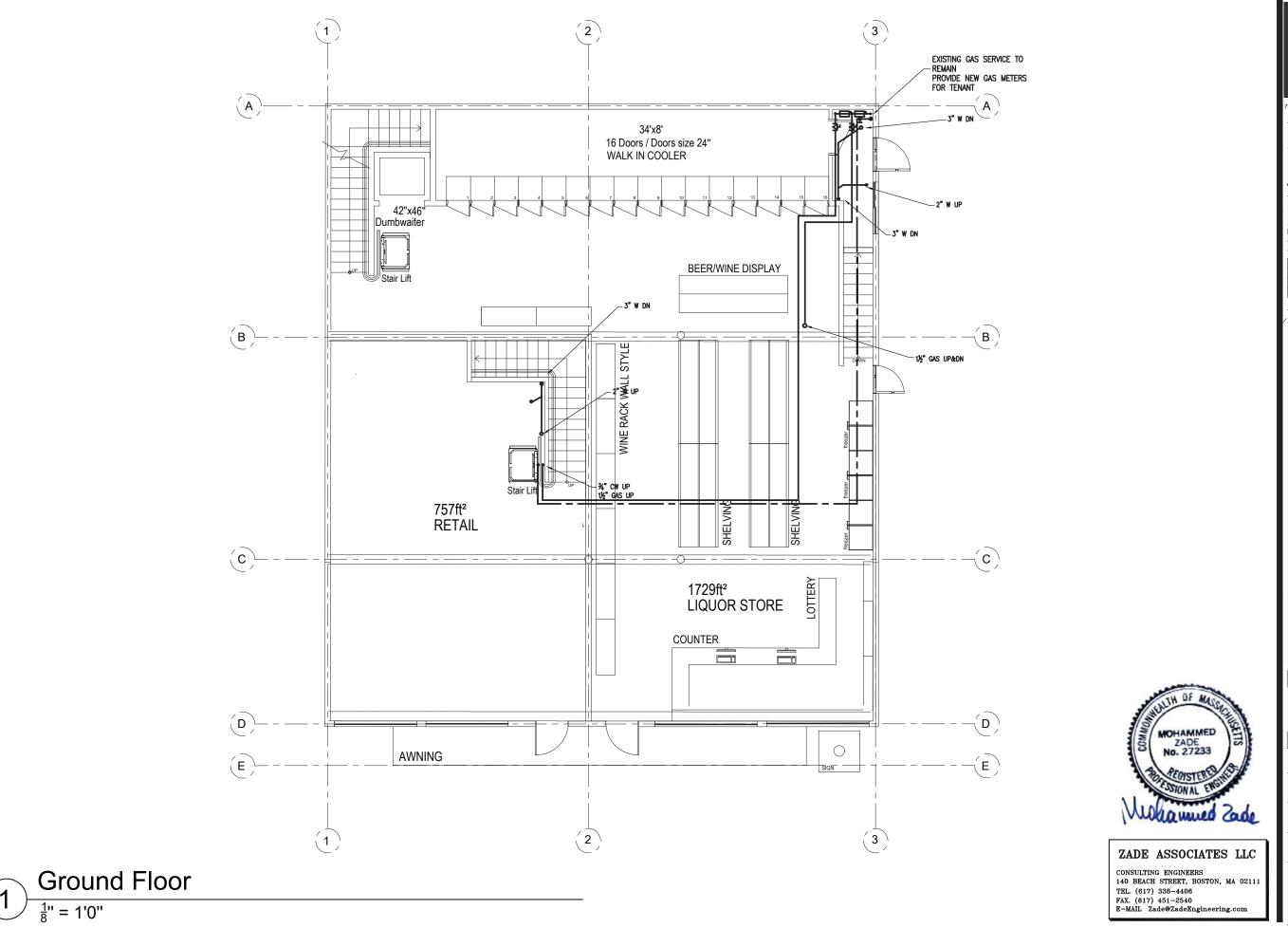
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DRAWING NUMBER

P101

ZADE ASSOCIATES LLC Basement CONSULTING ENGINEERS 140 BEACH STREET, BOSTON, MA 02111

 $\frac{1}{8}$ " = 1'0"





PROJECT NAME

483 BROADWAY - SOMERVILLE, MA 02145

JOHN WOOD

PROJECT TEAM

Architect Nathália Quirino 857 888-1216

Engineer Nazieh R. Hammouri (857) 312-9212

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П		Issued for permit	12/10/2020
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DRAWING TITLE

FIRST FLOOR PLUMBING PLAN

DRAWING INFORMATION

December 30, 2020

DATE OF ISSUE

Issued for permit DESCRIPTION

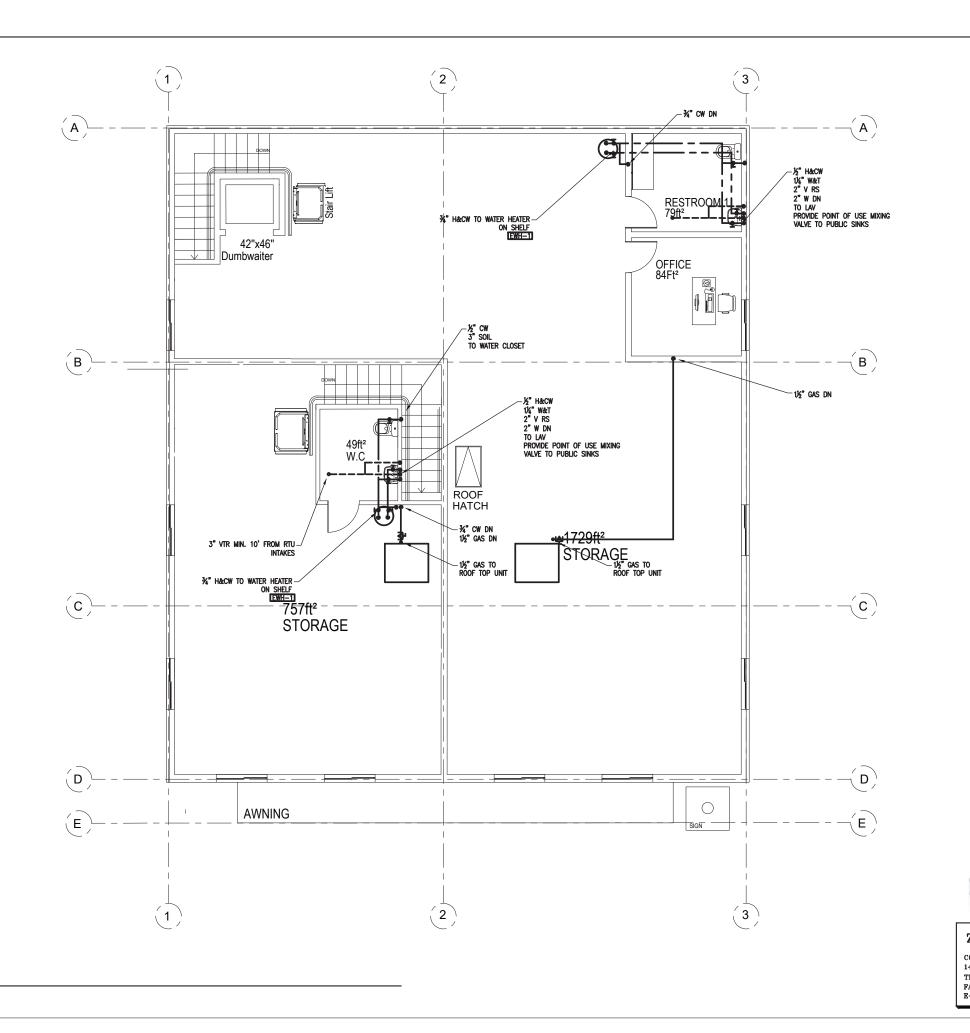
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P102



Second Floor

 $\frac{1}{8}$ " = 1'0"



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PROJECT NAME

483 BROADWAY - SOMERVILLE, MA 02145

JOHN WOOD

PROJECT TEAM

Engineer Nazieh R. Hammouri (857) 312-9212 Architect Nathália Quirino 857 888-1216

No.	Description	Date
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DRAWING TITLE

SECOND FLOOR PLUMBING PLAN

DRAWING INFORMATION

December 30, 2020

DATE OF ISSUE

Issued for permit

DESCRIPTION

As indicated

SCALE 479J

479J PROJECT# FILE NAME

DRAWN BY

DRAWING NUMBER

P103

MOHAMMED ZADE No. 27233

ZADE ASSOCIATES LLC

GENERAL NOTES

- 1) FOR EXACT LOCATION OF PLUMBING FIXTURES SEE ARCHITECTURAL DRAWINGS.
- 2) EXAMINE ALL CONTRACT DRAWINGS, GERNERAL CONDITIONS AND SPECIFICATIONS WHICH MAY AFFECT THE WORK.
- 3) ALL PLUMBING WORK MUST BE COORDINATED WITH ALL OTHER TRADES BEFORE PROCEEDING WITH INSTALLATION.
- 4) CHECK INVERT ELEVATIONS AND EXACT LOCATIONS OF ALL OUTSIDE UTILITIES BEFORE INSTALLING ANY UNDERGROUND.
- 5) NO CHANGES ARE TO BE MADE IN PLUMBING LAYOUT WITHOUT WRITTEN PERMISSION OF THE ARCHITECT.
- 6) NO PIPING SHALL RUN EXPOSED IN FINISHED AREAS.
- 7) ALL PLUMBING SYSTEM SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE LOCAL AND STATE PLUMBING CODES.
- 8) ROUGHING DIMENSIONS OF TOILET FIXTURES MUST BE COORDINATED WITH GENERAL CONTRACTOR.
- 9) INSTALL ALL HOT AND COLD WATER PIPING AS PER SPECIFICATIONS.
- 10) INSTALL SHUTOFF GATE VALVES ON ALL BRANCH SUPPLY LINES AND AT THE BASE OF HOT AND COLD WATER RISERS.
- 11) PLUMBING CONTRACT SHALL REQUIRES PANELS TO ACCESS THE CONCEALED PLUMBING CLEANOUTS, DRAINS, DEVICES AND CONTROLS. ACCESS PANELS SHALL BE FIRE RATED TO MATCH THE PENETRATING PARTITION OR CEILING TYPE. GENERAL CONTRACTOR SHALL INSTALL THE ACCESS PANELS.
- 12) INSTALL ALL FLOOR CLEANOUTS TO CLEAR EQUIPMENT.
- 13) PLUMBING CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, FEES AND CHARGES IN CONNECTION WITH THE WORK.
- 14) PLUMBING CONTRACTOR SHALL PROVIDE WATERTIGHT SLEEVES FOR ALL PIPES PASSING THRU BASEMENT WALLS.
- 15) INSTALL CLEANOUTS AT THE BASE OF ALL SANITARY STACKS.
- 16) INSTALL ALL HORIZONTAL RUNS OF PIPING AS HIGH AS POSSIBLE, PITCH ALL WATER PIPING TO DRAIN, DRAW OFFS AT ALL POINTS.
- 17) PLUMBING CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS TO OUTSIDE UTILITIES.
- 18) FOR PIPE SIZES NOT SHOWN ON PLANS SEE DETAILS & RISER DIAGRAMS.

INSULATION NOTES

THE FOLLOWING SYSTEMS SHALL BE INSULATED.

IECC 2012 REQUIREMENTS:

1. DOMESTIC HOT WATER MAINS AND BRANCHES: PIPING < 1" REQUIRES 1" INSULATION PIPING > 1½" REQUIRES 2" INSULATION GENERAL INSULATION REQUIREMENTS:

CW PIPING: HORIZONTAL STORM:

%" INSULATION 1/3" INSULATION

PIPING MATERIAL NOTES

SANITARY AND VENT: BELOW GROUND: SWCI WITH PUSH ON JOINTS.

ABOVE GROUND: -SWCI WITH HUSKY 4-BAND CLAMPS

WATER PIPING:

TYPE "L" COPPER WITH 95-5 SOLDER JOINTS

GAS PIPING:

SCHEDULE 40 ER/ERW BLACK STEEL WITH THREADED

JOINTS OR WELDÉD.

PLUMBING SPECIFICATION

A. SCOPE OF WORK

- 1. SANITARY WASTE STORM AND VENT PIPING SYSTEM.
- 2. CONNECTION TO EXISTING SANITARY.
- 3. PLUMBING FIXTURES
- 4. WATER PIPING, VALVES, AND FITTINGS.
- 5. INSULATION.
- PERMITS.
- 7. ALL CORE DRILLING AND PATCHING.

B. MATERIALS

1. SANITARY STORM AND VENT PIPING:

: CAST IRON BELOW GROUND

: CAST IRON ABOVE GROUND

: TYPE "L" COPPER WATER PIPING

- 2. INSULATE ALL HOT AND COLD WATER PIPING WITH 1" FIBERGLASS INSULATION WITH ALL SERVICE JACKET. INSULATE PIPING BELOW HANDICAPPED LAVATORIES.
- 3. INSULATE HORIZONTAL STORM DRAIN WITH 1" FIBERGLASS INSULATION WITH ALL SERVICE JACKET.
- 3. PLUMBING FIXTURES:

REFER TO G.C. FOR PLUMBING FIXTURE SCHEDULE

C. EXECUTION

- 1. PRIOR TO BIDDING THE JOB THE CONTRACTOR SHALL VISIT THE JOB SITE AND VERIFY EXISTING CONDITIONS. REPORT ADVERSE CONDITIONS IN WRITING TO ARCHITECT.
- 2. ALL PLUMBING WORK SHALL COMPLY TO STATE AND LOCAL CODE REQUIREMENTS.
- 3. PLUMBING CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND INSPECTIONS.
- 4. FURNISH ALL LABOR, MATERIALS, EQUIPMENT, AND SERVICES NECESSARY FOR THE PROPER AND COMPLETE INSTALLATION OF ALL PLUMBING WORK SHOWN ON THE DRAWING.
- 5. ALL NEW WASTE AND VENT PIPING SHALL BE APPROVED BY LOCAL INSPECTOR.
- 6. INSTALL BALL VALVE AND UNION ON ALL HOT AND COLD WATER CONNECTIONS TO EQUIPMENT.
- 7. GUARANTEE ALL WORK AND MATERIAL FOR ONE YEAR FROM THE DATE OF ACCEPTANCE.
- 8. ALL WATER PIPING IN EXTERIOR WALLS SHALL BE RUN ON THE WARM SIDE OF INSULATION



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PROJECT TEAM Engineer Nazieh R. Hammouri Architect Nathália Quirino

(857) 312-9212

1B CLINTON ST Malden, MA 02148 Tel: 617 318-6056

483 BROADWAY - SOMERVILLE, MA 02145

PROJECT NAME

JOHN WOOD

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PLUMBING NOTES

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479.1 PROJECT # FILE NAME

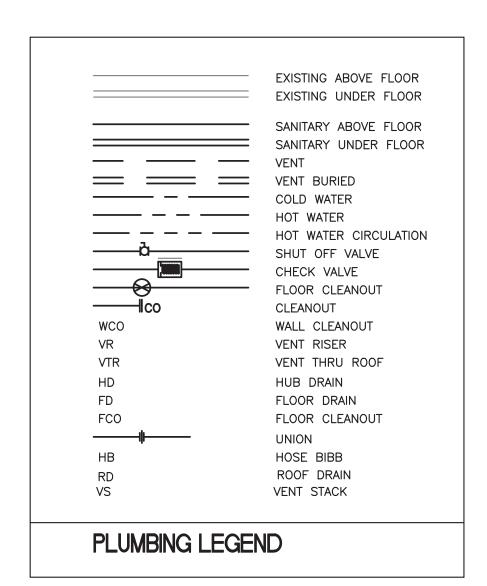
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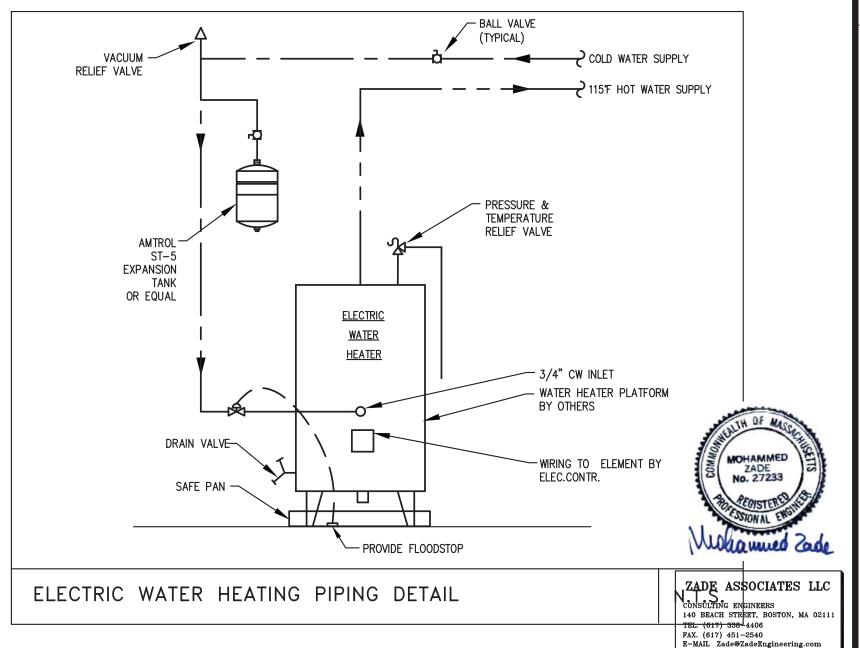
DRAWING NUMBER

P201

SCHEDULE OF WATER HEATER

DESIGNATION	NAME	LOCATION	DESCRIPTION
EWH-1	ELECTRIC HOT WATER HEATER	MECHANICAL ROOM	STATE ELECTRIC WATER HEATER, MODEL ES6 DORT 20, 20 GAL. CAPACITY, 1.5 KW, 208V/1ø, .93 EF, 21 GPH @90°F RISE RECOVERY, 31 GAL. FIRST HOUR RATING.







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 Description
 Date

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DRAWING TITLE

PLUMBING NOTES, DETAILS & SCHEDULES

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479.1

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P202