

PROJECT NAME
40 NORRIS STREET

PROJECT ADDRESS
40 NORRIS STREET
CAMBRIDGE, MA

CLIENT
Mouhab Z. Rizkallah

ARCHITECT
KHALSA DESIGN INC.



17 WALDO STREET, SUITE 400
SOMERVILLE, MA 02143
TELEPHONE 617-591-8882 FAX 617-591-2888

CONSULTANTS:

LANDSCAPE ARCHITECT

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REGISTRATION

Project number 10051
Date 11-28-11
Drawn by wc
Checked by JSK
Scale

REVISIONS		
No.	Description	Date
1	LOCUS ADDRESS	12/9/2011

TITLE SHEET

T-1
10051_40 NORRIS ST.



NORRIS STREET RESIDENCES

40 NORRIS STREET
CAMBRIDGE, MA 02140

** PLANNING BOARD SUBMISSION 11-17-2011 **

LIST OF DRAWINGS		
NUMBER	TITLE	LATEST DATE ISSUED
T-1	TITLE SHEET	12-9-2011
L-1	ILLUSTRATIVE LANDSCAPE PLAN	11-17-2011
P-1	PARKING LAYOUT	12-9-2011
S-1	EXISTING CONDITIONS SURVEY	11-17-2011
Z-1	EXISTING FLOOR AREA DIAGRAMS	11-17-2011
Z-2	PROPOSED FLOOR AREA DIAGRAMS	12-9-2011
Z-3	SITE PHOTOS	11-17-2011
Z-4	SITE PHOTOS	11-17-2011
Z-5	SAMPLE COOLING TOWER	12-1-2011
A-100	BASEMENT FLOOR PLAN	12-9-2011
A-101	FIRST FLOOR PLAN	12-9-2011
A-102	SECOND FLOOR PLAN	12-9-2011
A-103	THIRD FLOOR PLAN	12-9-2011
A-104	UPPER THIRD FLOOR PLAN - LEVEL 1	12-9-2011
A-105	UPPER THIRD FLOOR PLAN - LEVEL 2	12-9-2011
A-106	ROOF PLAN	12-9-2011
A-300	EXTERIOR ELEVATIONS	12-9-2011
A-301	EXTERIOR ELEVATIONS	12-9-2011
A-400	BUILDING SECTION	12-9-2011
PH-1	PHOTOMETRIC	12-5-2011



OWNER:
Dr. MOUHAB Z. RIZKALLAH
30 COLLEGE AVENUE
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LANDSCAPE ARCHITECT:
BLAIR HINES DESIGN ASSOCIATES
318 HARVARD STREET, STE 25
BROOKLINE, MA 02446
(617) 730-1180

SITE PHOTOS

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Project number 10051
Date 11-17-11
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Scale

REVISIONS

No.	Description	Date

SITE PHOTOS

Z-3

10051_40 NORRIS ST.



1



2



3



4



5



6



7



8



9



10

SITE PHOTOS



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REVISIONS

No.	Description	Date

SITE PHOTOS

Z-4

10051_40 NORRIS ST.

BLOCK 192

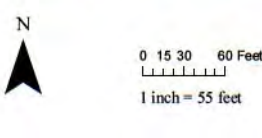


**City of Cambridge
Assessing Department**
795 Massachusetts Ave.
Cambridge, MA 02139

- Buildings
- Water
- Lot Line
- Sub-Parcel Line
- Block Line
- Easement
- City Boundary
- Railway

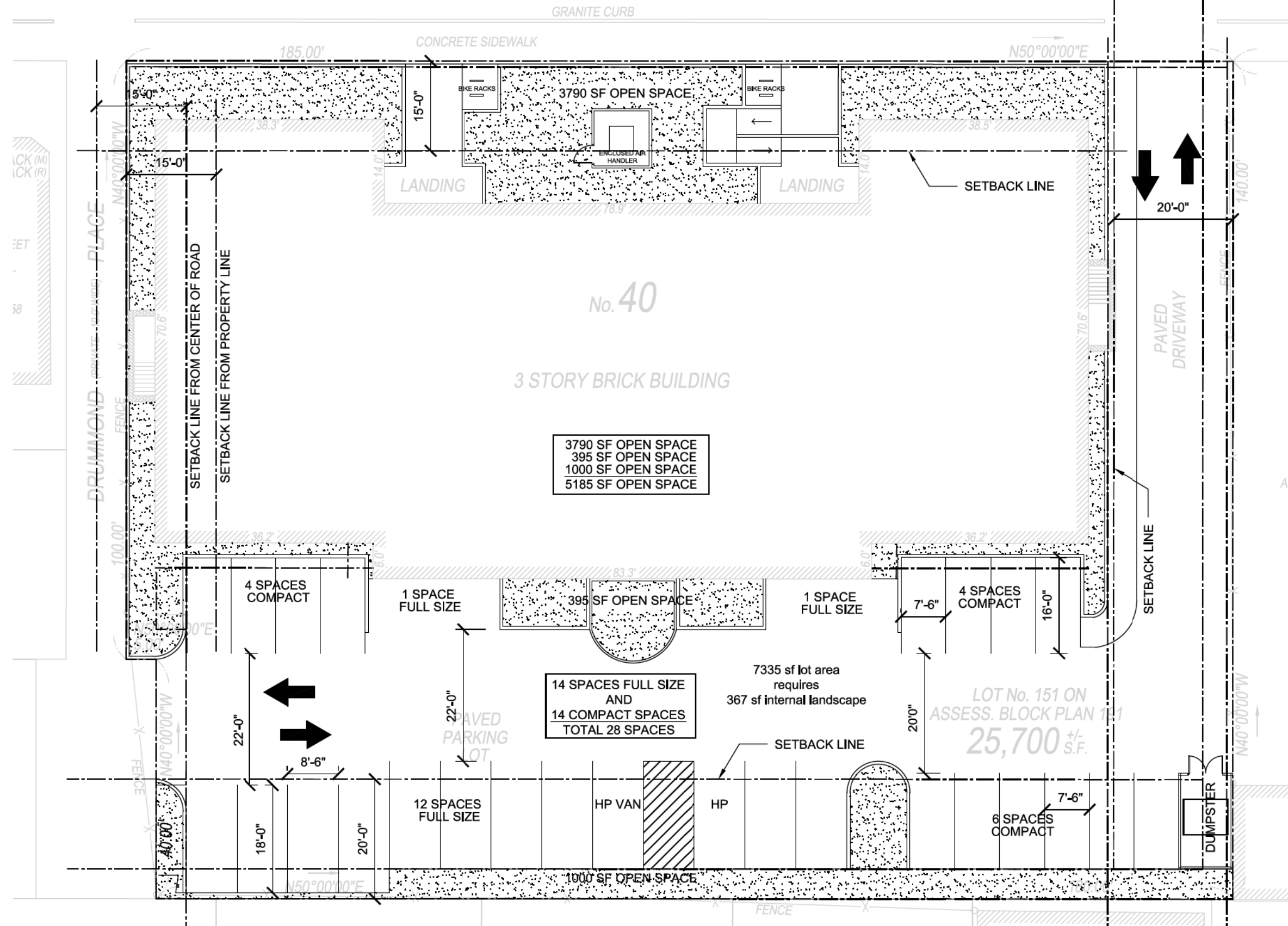
10 Lot Number 100 Parcel size in Sq. Ft.
 192 Block Number 44.0LC Land Court Dimension
 10 Cam Street Number 65.0 Survey Dimensions
 (125.0) Deed Dimension

DISCLAIMER
 All Real Property shown on this map was compiled from existing Assessor's Tax Maps dated 1920 to 2021 and maintained by the City Assessor's Office and the Department of Public Works. Subsequent maintenance has been completed using the City of Cambridge Geographic Information System (GIS). Parcels have not been created from survey, and may be suitable for assessing purposes only.
 The City of Cambridge assumes no legal responsibility for information shown on this map.



Parcel Block Map
192

NORRIS (PUBLIC - 40.0' WIDE) STREET



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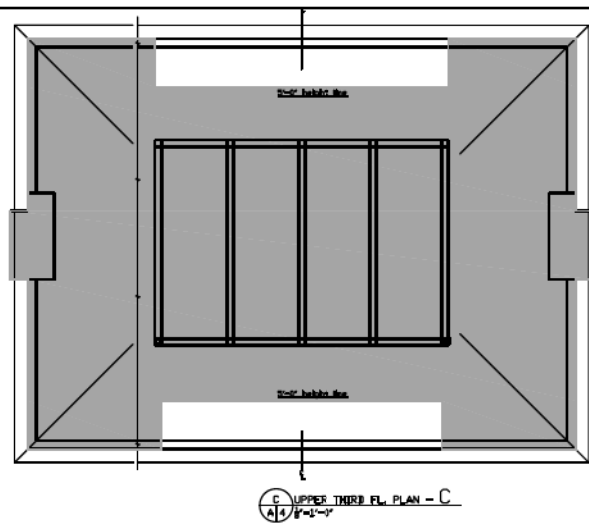
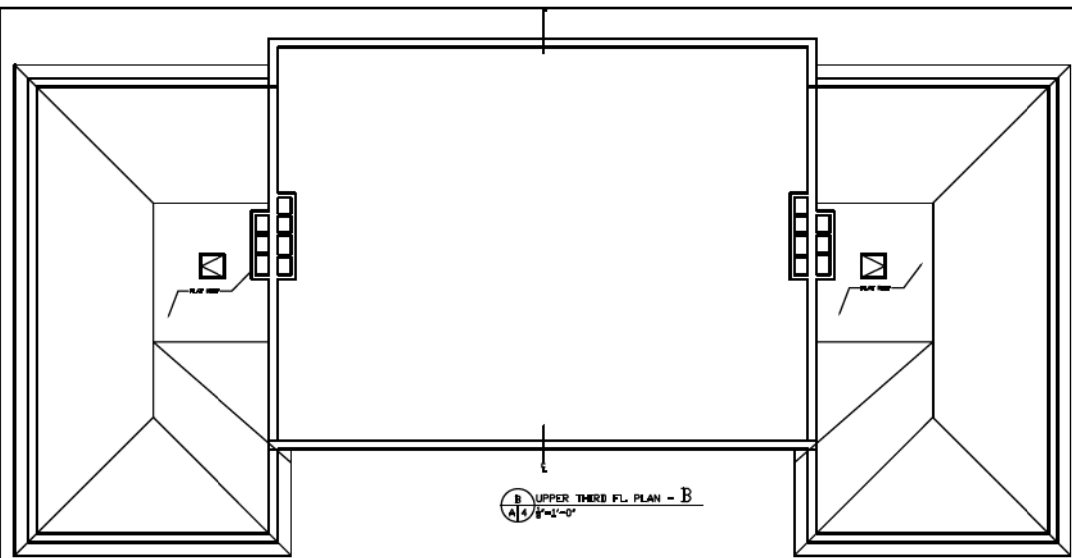
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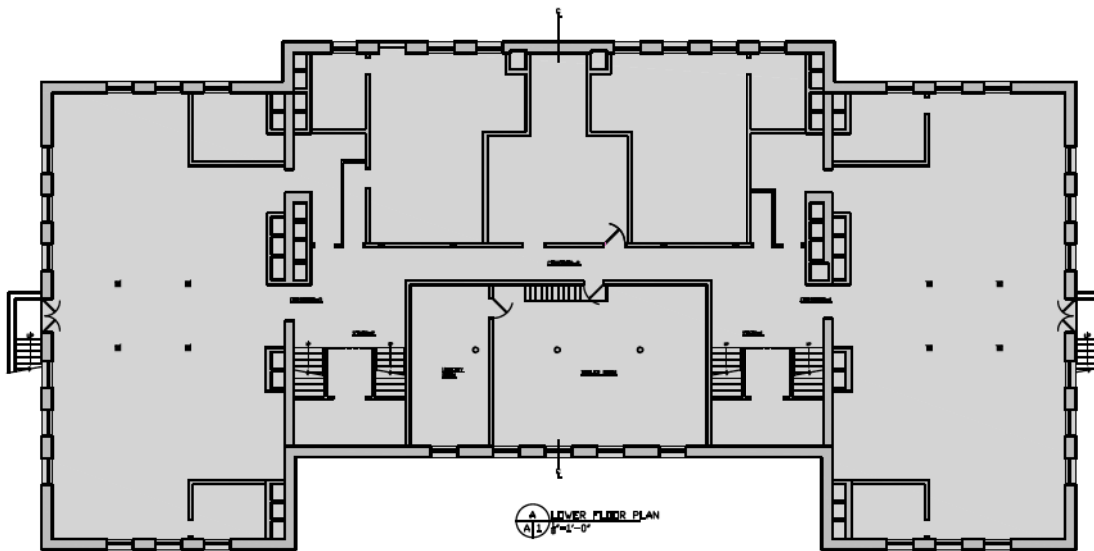
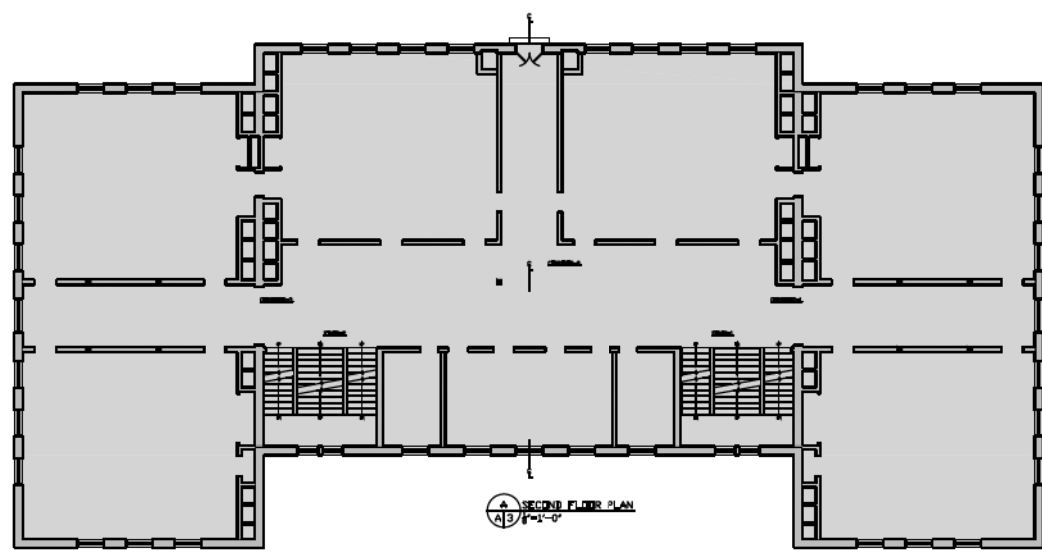
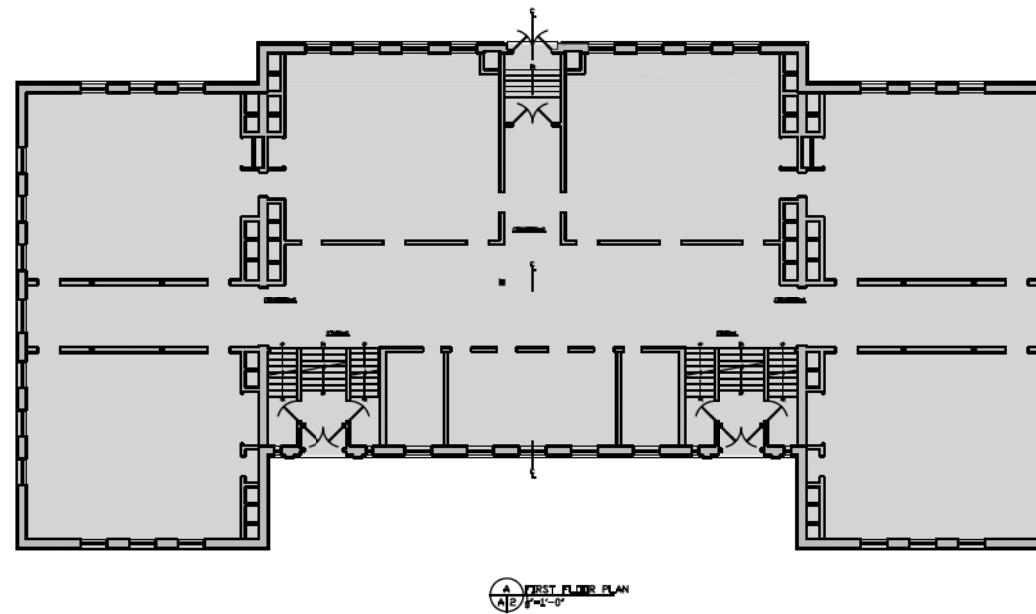
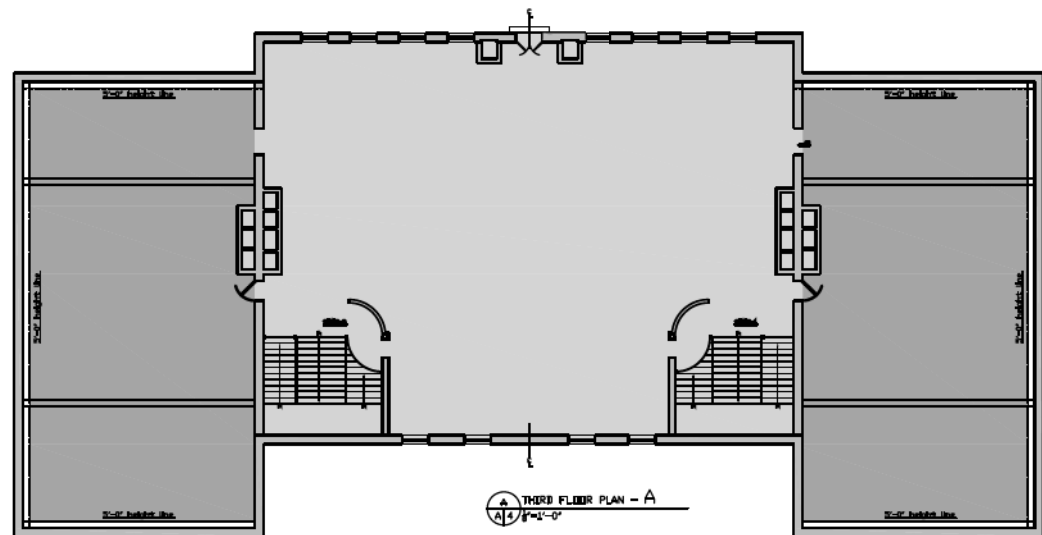
Project number	10051
Date	11-29-11
Drawn by	vc
Checked by	JSK
Scale	

REVISIONS		
No.	Description	Date
1	ADDED SETBACK LINES	12/9/2011

PARKING LAYOUT
P-1
10051_40 NORRIS ST.



EXISTING GROSS SQUARE FOOTAGE CALCULATIONS							
USE GROUP	FLOOR	LOWER LEVEL	FIRST LEVEL	SECOND LEVEL	THIRD LEVEL - A	UPPER THIRD FLR LEVEL - B	TOTAL GROSS FLOOR AREA
FLOOR AREA		10,413	10,240	10,240	5,560	--	36,471
ATTIC AREA (E AND OVER)		--	--	--	4,419	4,545	8,964
TOTAL GROSS FLOOR AREA		10,413	10,240	10,240	9,979	4,545	45,435



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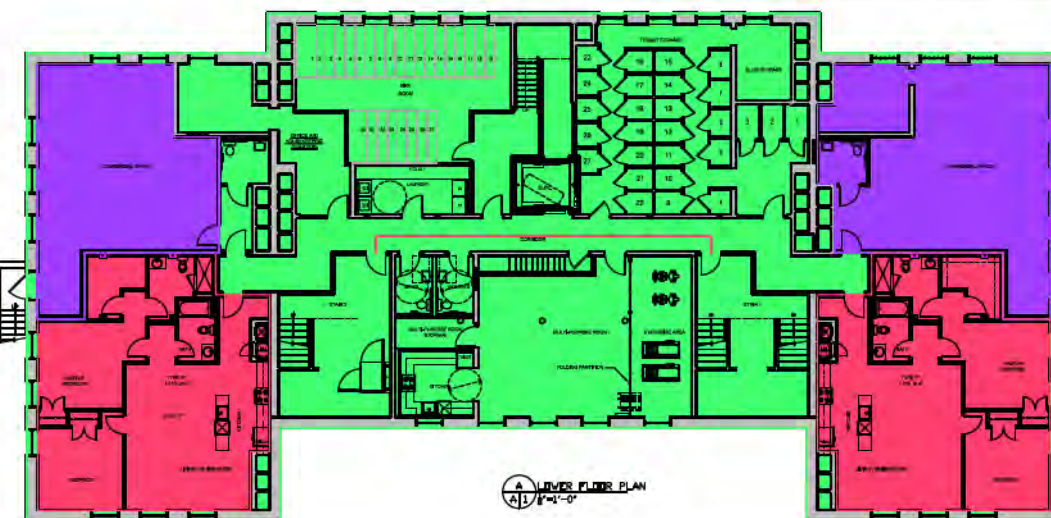
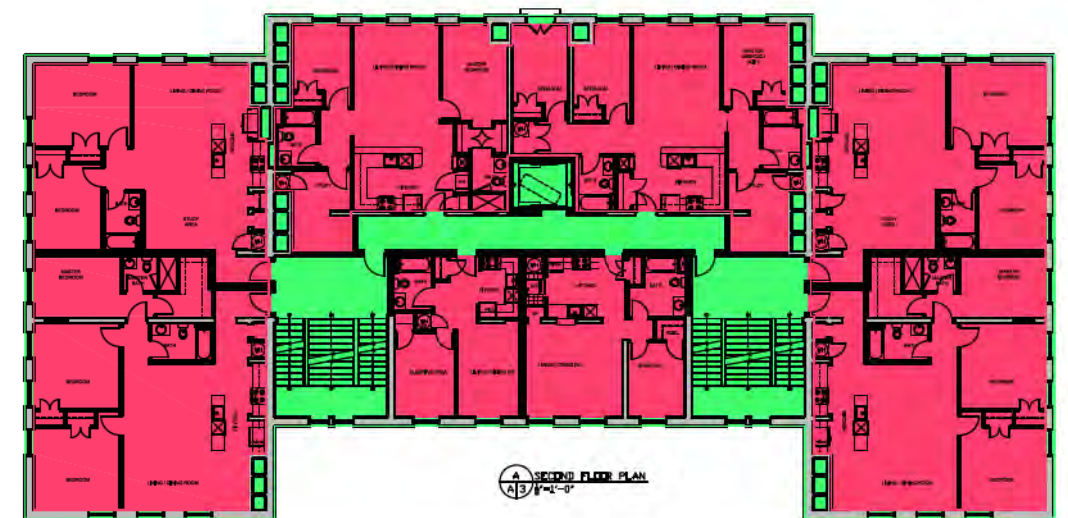
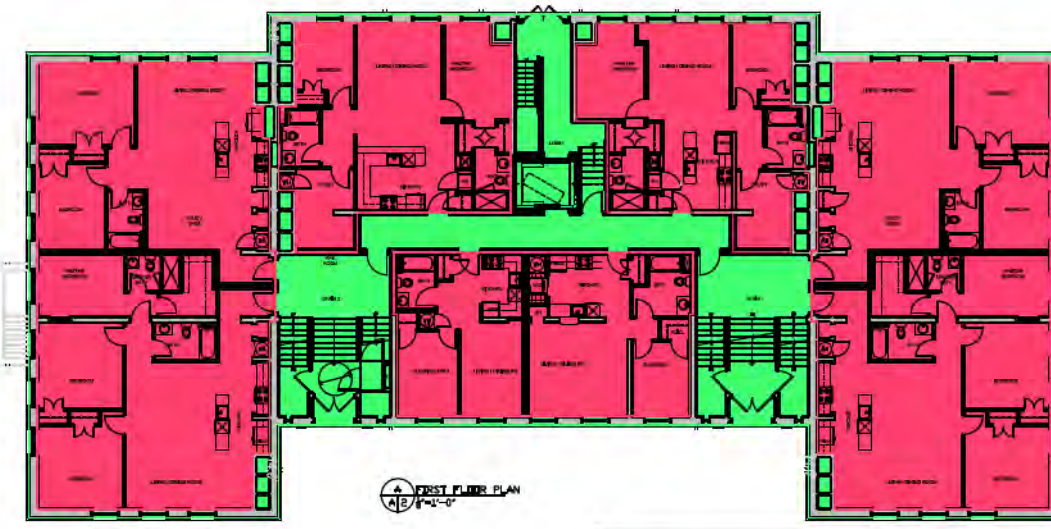
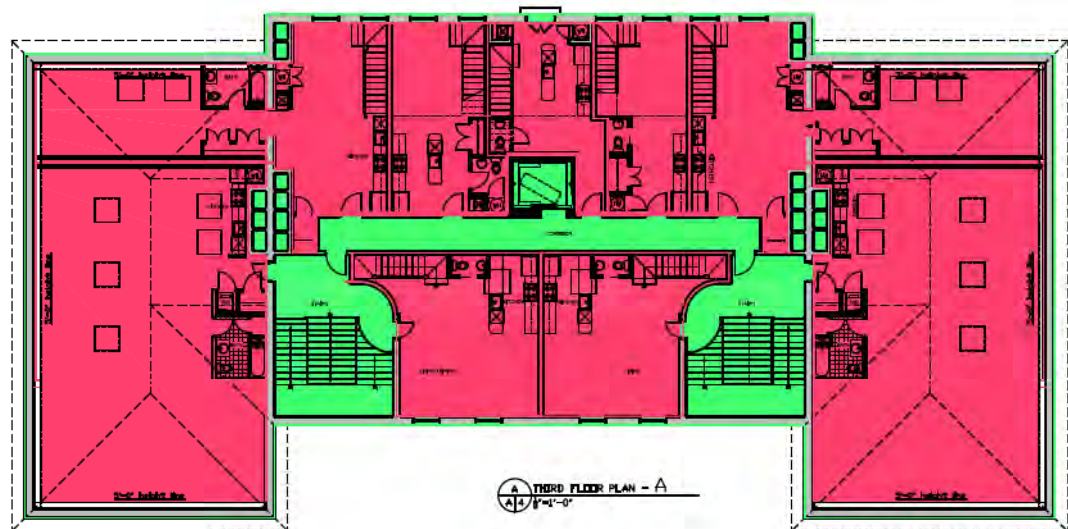
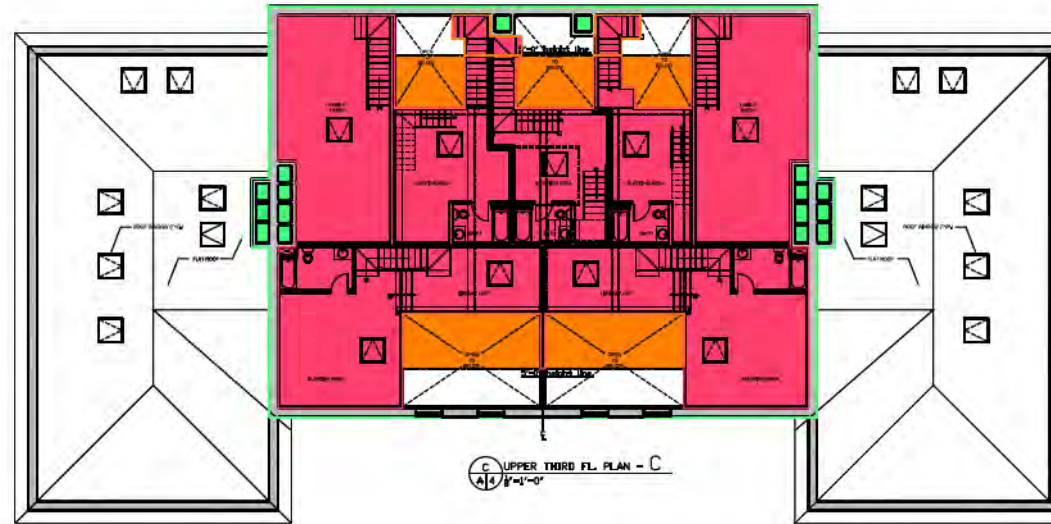
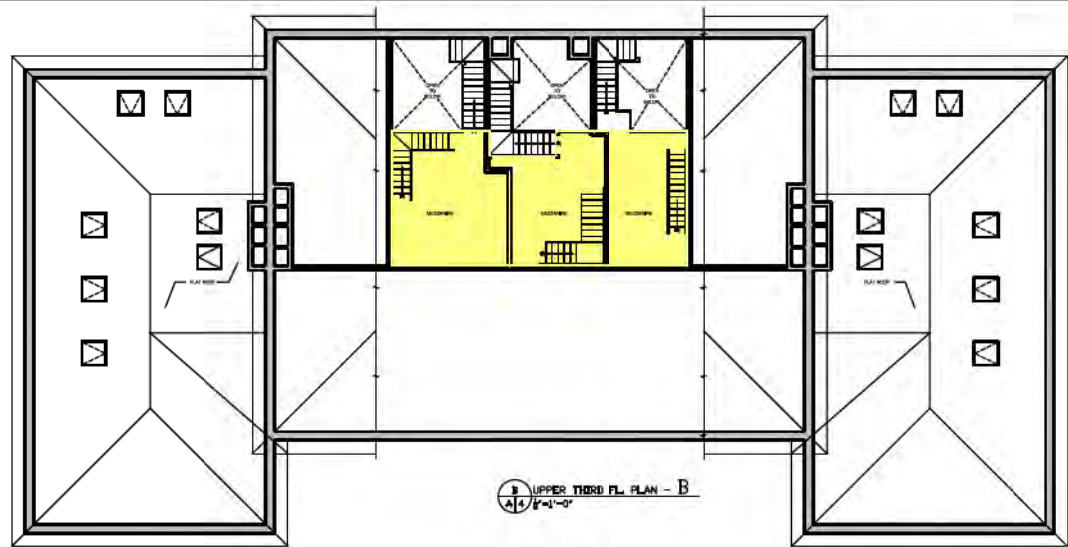
REGISTRATION

Project number: 10051
Date: 11-28-11
Drawn by: JLW
Checked by: JSK
Scale: N.T.S.

REVISIONS		
No.	Description	Date
1	SF ADJUSTMENT	12/13/2011

EXISTING FLOOR AREA DIAGRAMS

Z-1
10051_40 NORRIS ST.



PROPOSED GROSS SQUARE FOOTAGE CALCULATIONS

USE GROUP	FLOOR	LOWER LEVEL	FIRST LEVEL	SECOND LEVEL	THIRD LEVEL - A	UPPER THIRD FLR LEVEL - B	UPPER THIRD FLR LEVEL - C	TOTAL GROSS FLOOR AREA
COMMON SPACE		6,166	2,566	2,380	2,300	--	525	13,968
RESIDENTIAL SPACE		2,426	7,683	7,669	7,670	--	3,420	29,068
COMMERCIAL SPACE		1,799	--	--	--	--	--	1,799
FLOOR AREA REMOVED		--	--	--	--	--	- 600 (REFLECTED IN TOTAL NET AREA)	- 600 (REFLECTED IN TOTAL NET AREA)
RESIDENTIAL FLR AREA ADDED		--	--	--	--	869	--	869
TOTAL GROSS FLOOR AREA		10,413	10,249	10,249	9,970	869	3,945	45,704

WALL LEGEND

[Solid Line]	NEW WALLS
[Dashed Line]	EXISTING WALLS

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REGISTRATION

Project number 10051
Date 11-28-11
Drawn by JLW
Checked by JSK
Scale N.T.S.

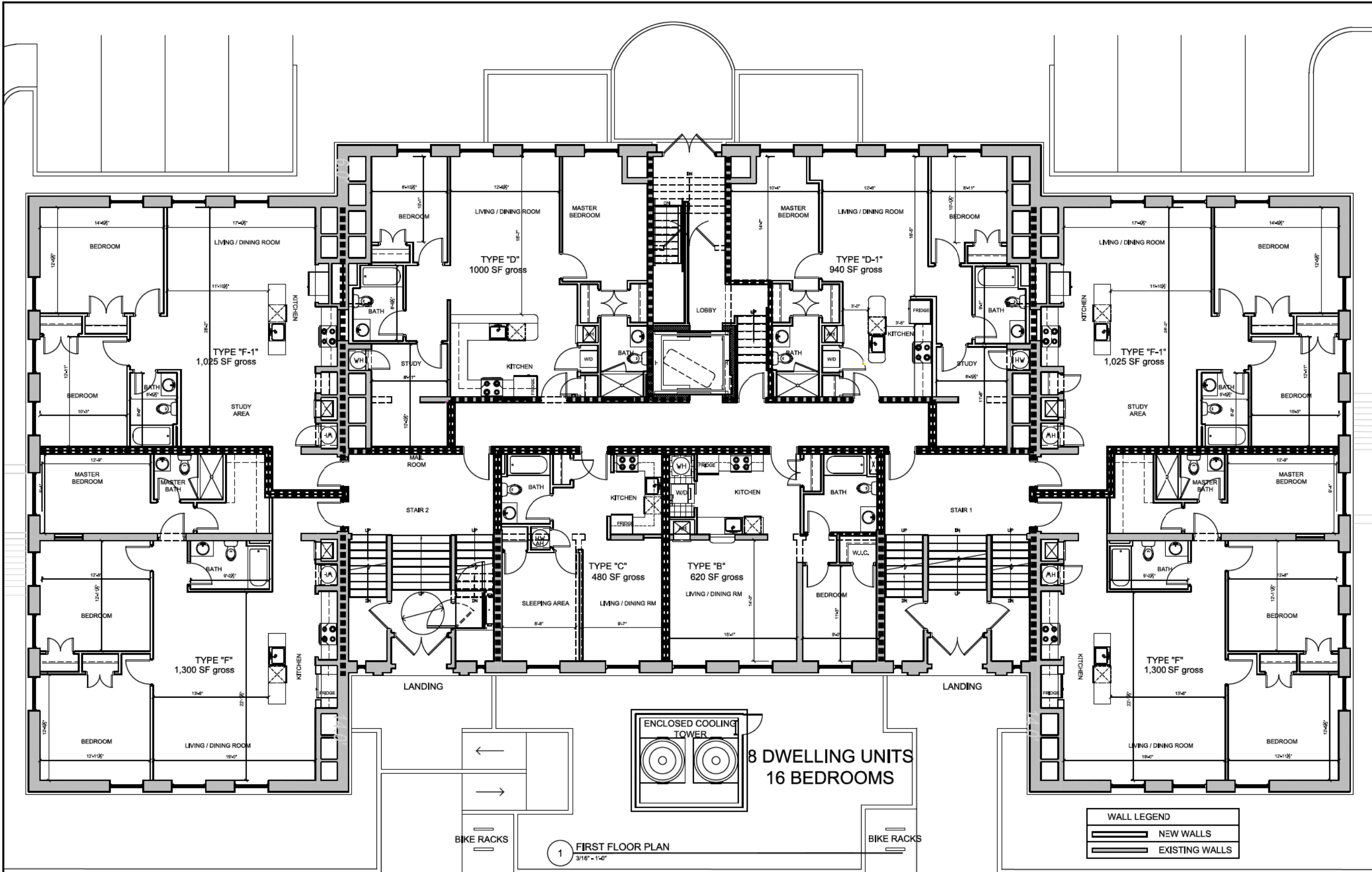
REVISIONS

No.	Description	Date
1	ADDED LEGEND	12/9/2011
2	SF ADJUSTMENT	12/19/2011

PROPOSED FLOOR AREA DIAGRAMS

Z-2

10051_40 NORRIS ST.



1 FIRST FLOOR PLAN
3/16" = 1'-0"

WALL LEGEND

	NEW WALLS
	EXISTING WALLS

CONCRETE SIDEWALK

NORRIS STREET

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REGISTRATION

Project number	10051
Date	11-28-11
Drawn by	JLW
Checked by	JSK
Scale	3/16" = 1'-0"

REVISIONS

No.	Description	Date
1	ADDED LEGEND	12/9/2011
2	ADDED SITE FEATURES	12/18/2011

FIRST FLOOR PLAN

A101

10051_40 NORRIS ST.

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REGISTRATION

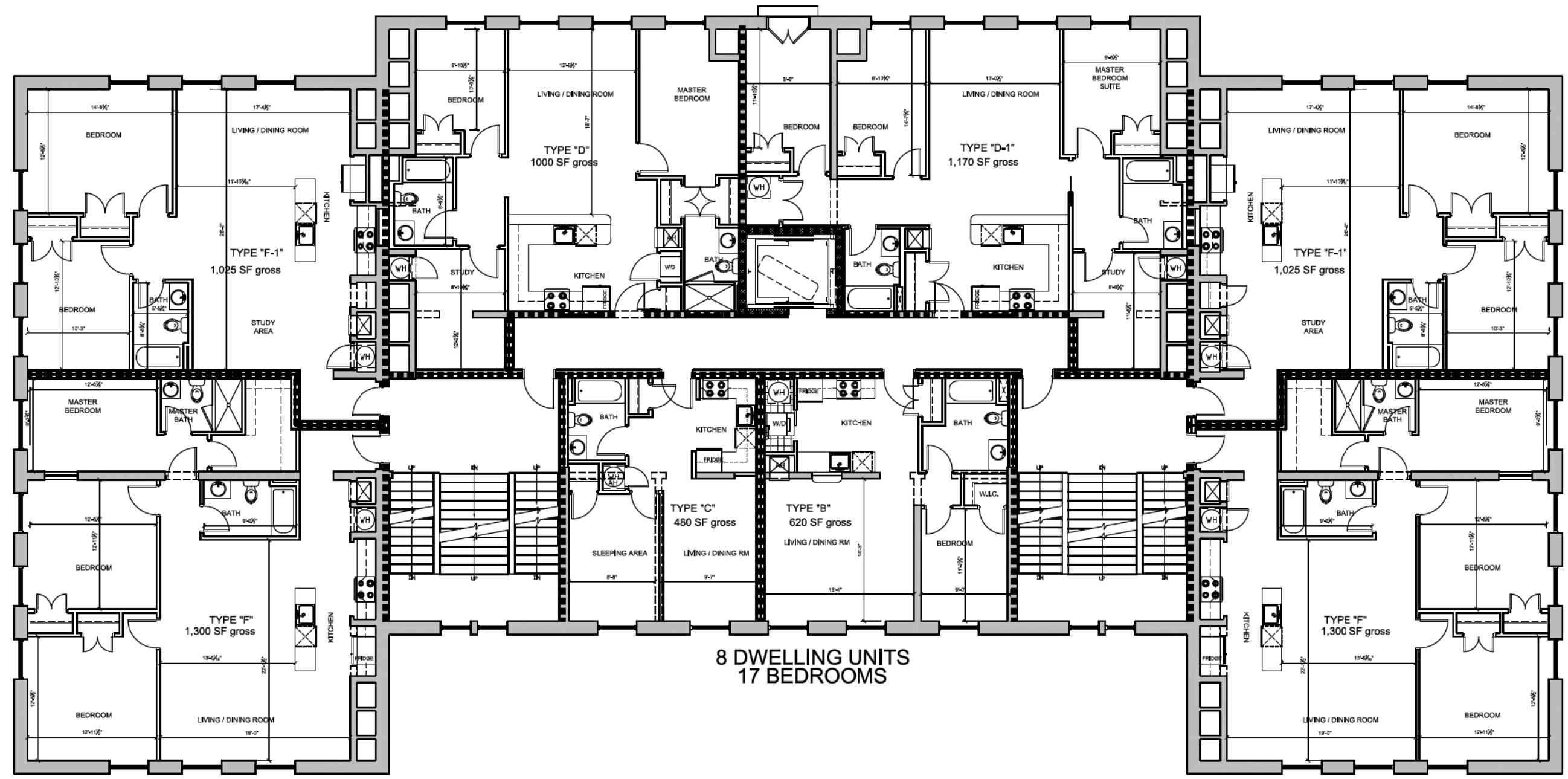
Project number: 10051
Date: 12-01-11
Drawn by: JSK
Checked by: JSK
Scale: 3/16" = 1'-0"

REVISIONS

No.	Description	Date
1	ADDED LEGEND	12/9/2011

SECOND FLOOR PLAN

A102
10051_40 NORRIS ST.



**8 DWELLING UNITS
17 BEDROOMS**

1 SECOND FLOOR PLAN
3/16" = 1'-0"

WALL LEGEND

	NEW WALLS
	EXISTING WALLS

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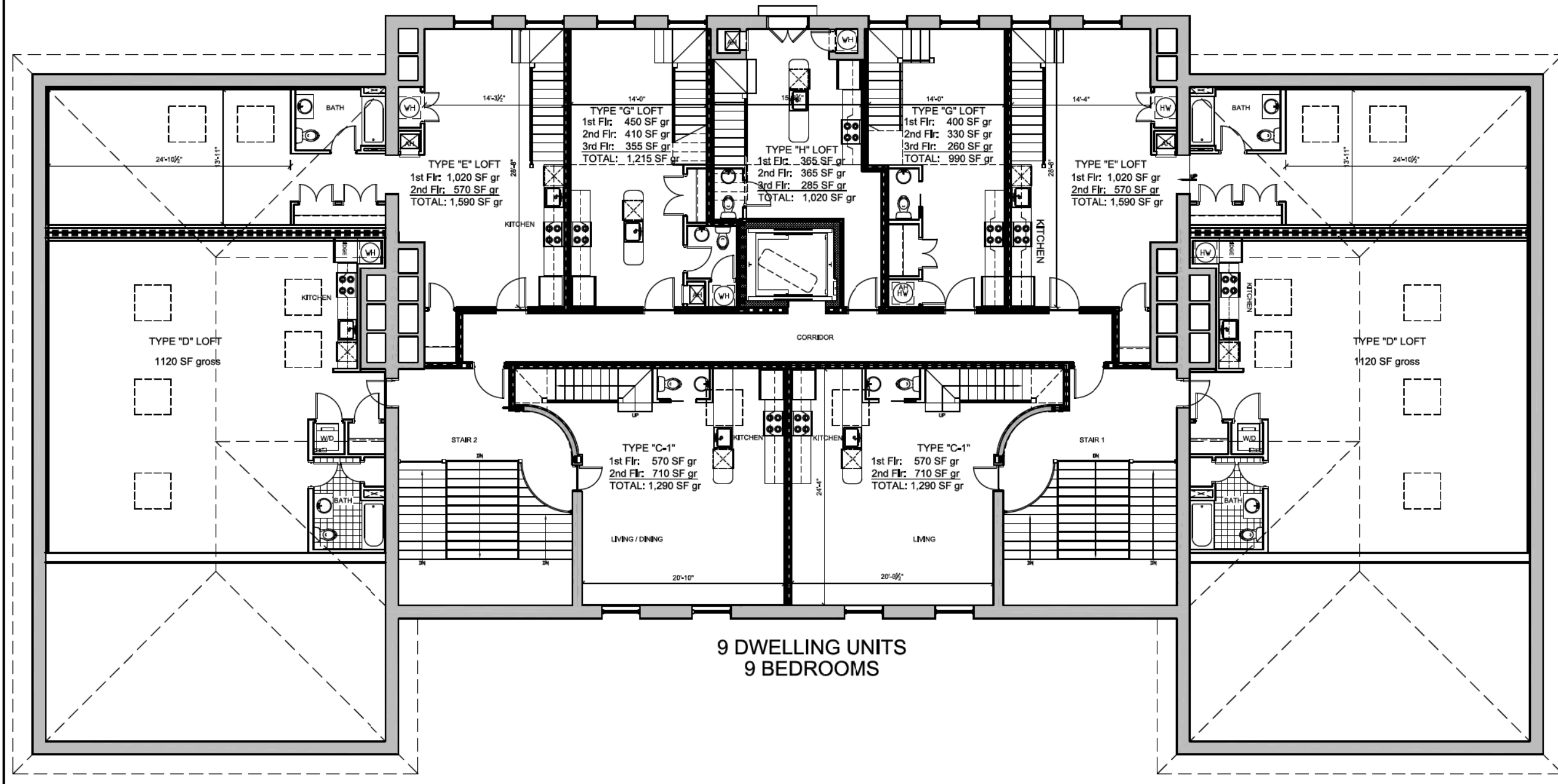
Project number	10051
Date	11-28-11
Drawn by	JLW
Checked by	JSK
Scale	3/16" = 1'-0"

REVISIONS		
No.	Description	Date
1	MOVED WALL INDICATOR	11/28/2011
2	NORRIS ST INDICATOR	12/16/2011

THIRD FLOOR PLAN - A

A103

10051_40 NORRIS ST.

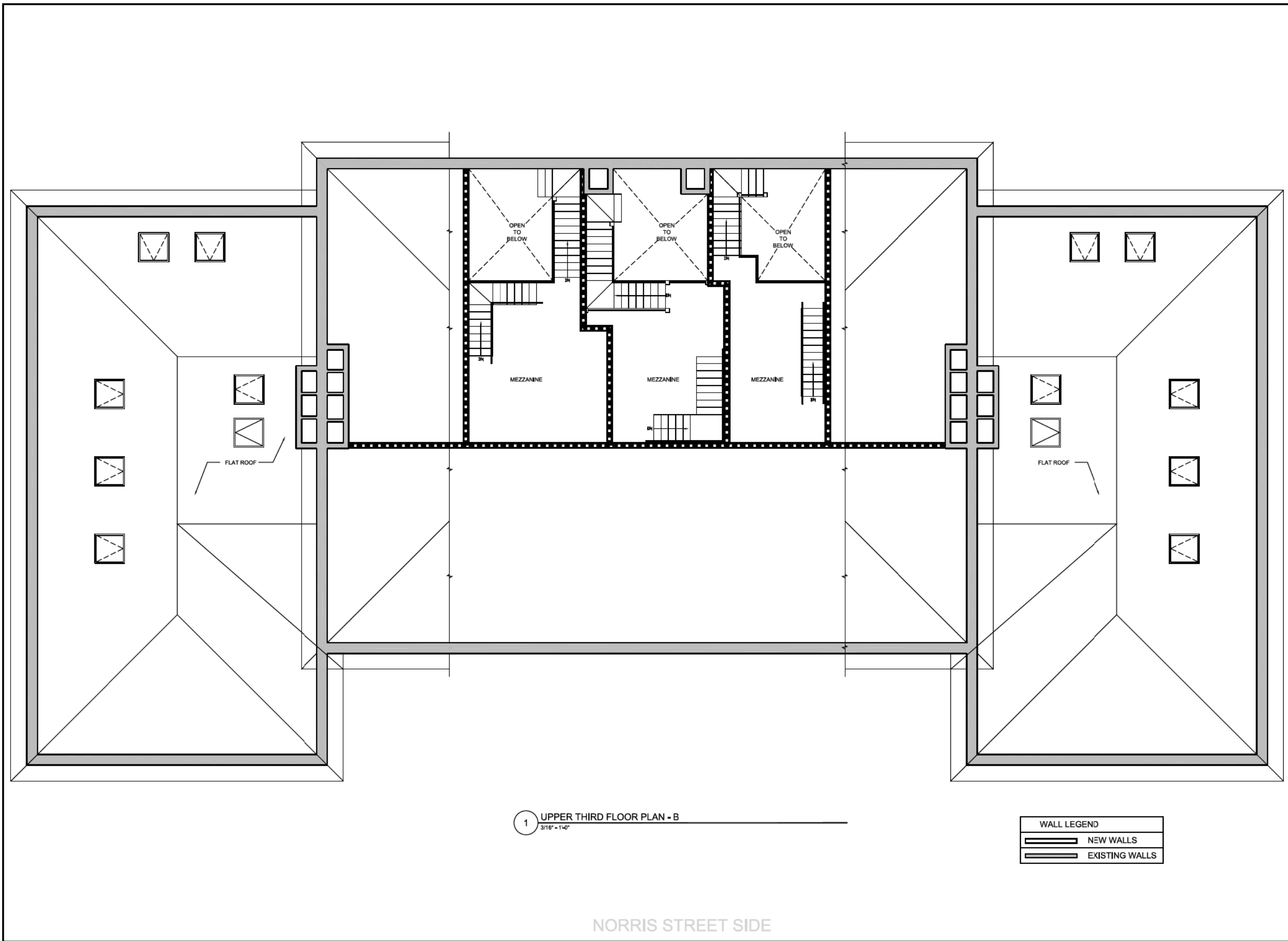


9 DWELLING UNITS
9 BEDROOMS

1 THIRD FLOOR PLAN - A
3/16" = 1'-0"

WALL LEGEND	
	NEW WALLS
	EXISTING WALLS

NORRIS STREET SIDE



1 UPPER THIRD FLOOR PLAN - B
3/16" = 1'-0"

WALL LEGEND	
	NEW WALLS
	EXISTING WALLS

NORRIS STREET SIDE

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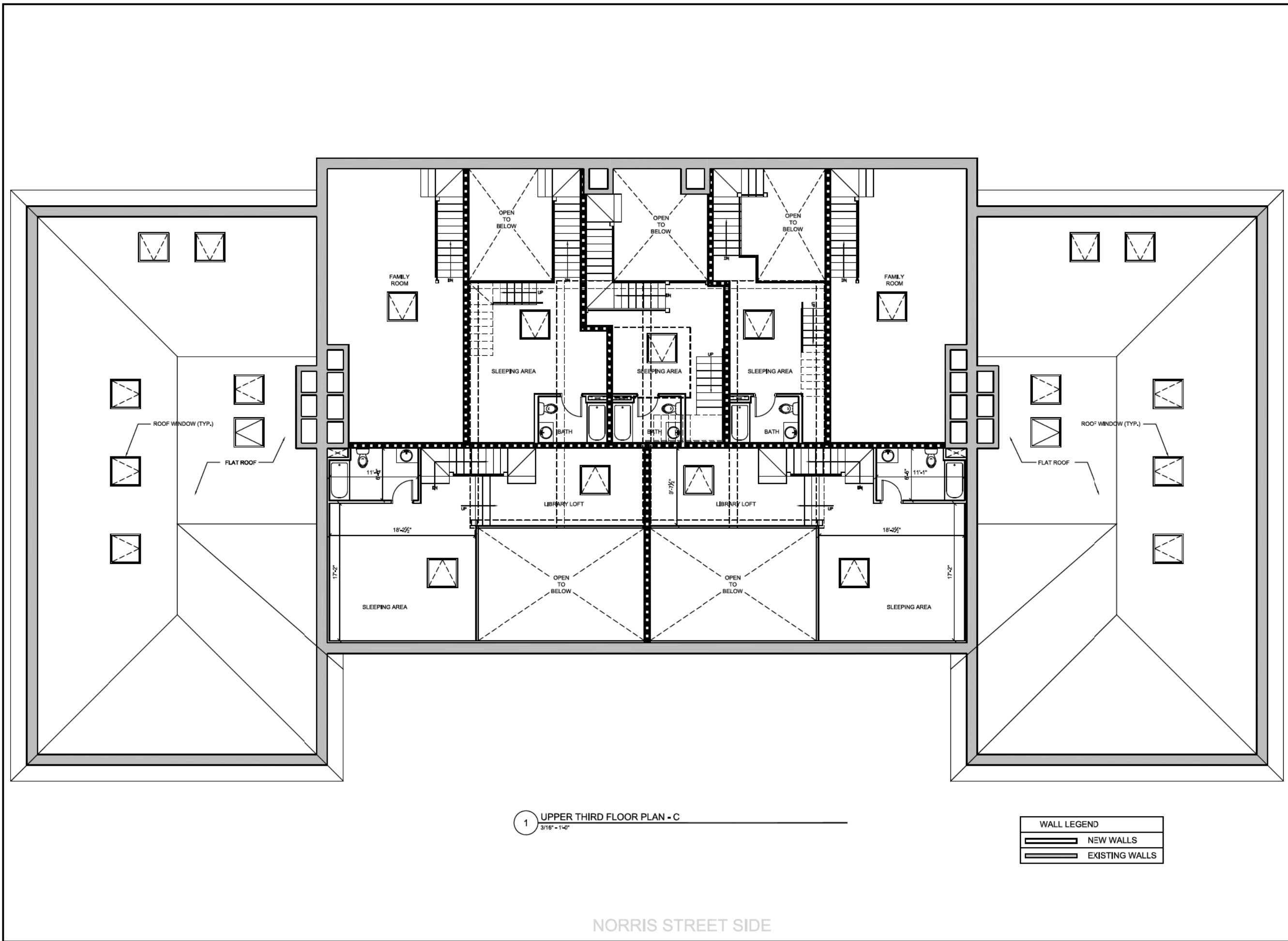
Project number	10051
Date	11-29-11
Drawn by	JLW
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Scale	3/16" = 1'-0"

REVISIONS		
No.	Description	Date
1	ADDED BATHROOMS	11/29/2011
2	NORRIS ST INDICATOR	12/16/2011

UPPER THIRD
FLOOR PLAN - B

A104

10051_40 NORRIS ST.



1 UPPER THIRD FLOOR PLAN - C
3/16" = 1'-0"

WALL LEGEND	
	NEW WALLS
	EXISTING WALLS

NORRIS STREET SIDE

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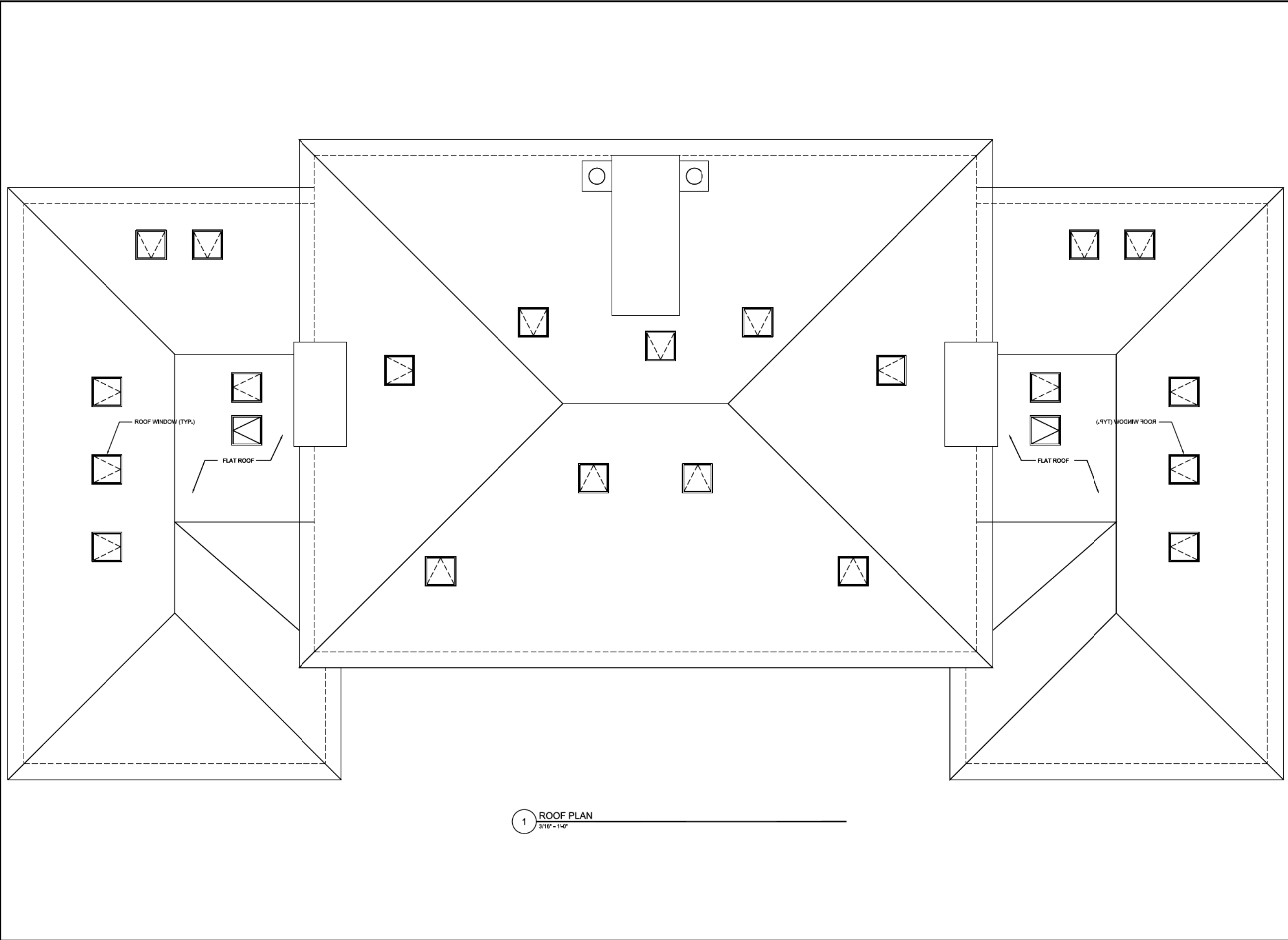
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REVISIONS		
No.	Description	Date
1	ADDED LEGEND	12/9/2011
2	NORRIS ST INDICATOR	12/18/2011

UPPER THIRD
FLOOR PLAN - C

A105
10051_40 NORRIS ST.



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Scale	3/16" = 1'-0"

REVISIONS

No.	Description	Date
1	SKYLIGHT LOCATION	11/28/2011

ROOF
PLAN

A106

10051_40 NORRIS ST.

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17 WALDO STREET, SUITE 400
SOMERVILLE, MA 02143
TELEPHONE 617-591-6862 FAX 617-591-2088

CONSULTANTS:

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REGISTRATION

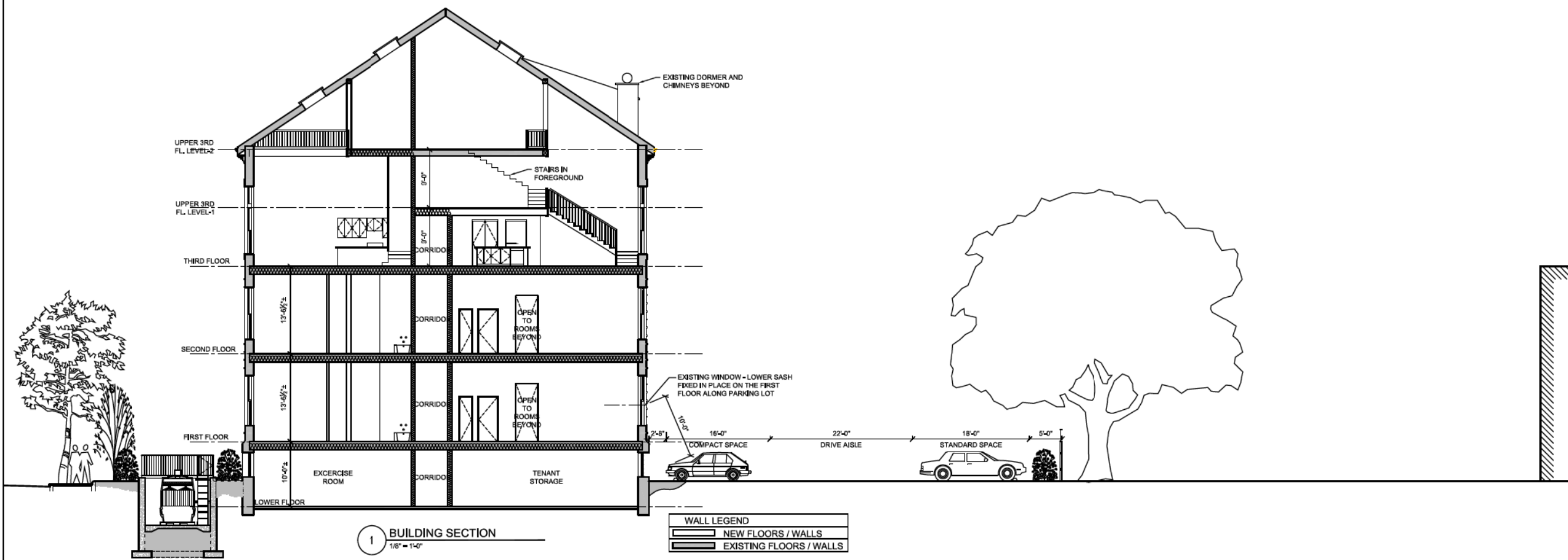
Project number: 10051
Date: 11-28-11
Drawn by: JLW
Checked by: JSK
Scale: 1/4" = 1'-0"

REVISIONS

No.	Description	Date
1	CHANGE TO SITE SECTION	12/18/2011

BUILDING SECTION

A400
10051_40 NORRIS ST.











PROJECT NAME
40 NORRIS STREET

PROJECT ADDRESS
40 NORRIS STREET
CAMBRIDGE, MA

CLIENT
Mouhab Z. Rizkallah

ARCHITECT
KHALSA DESIGN INC.



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REGISTRATION

Project number 10051
Date 11-29-11
Drawn by
Checked by JSK
Scale

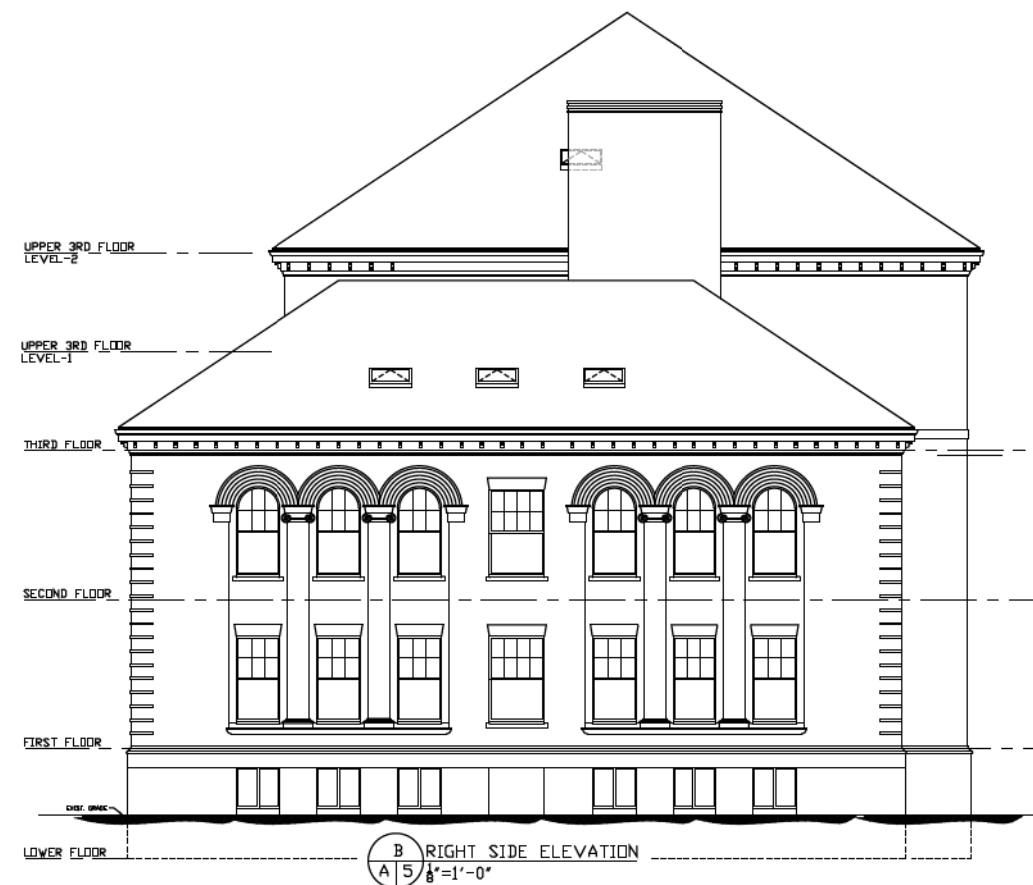
REVISIONS

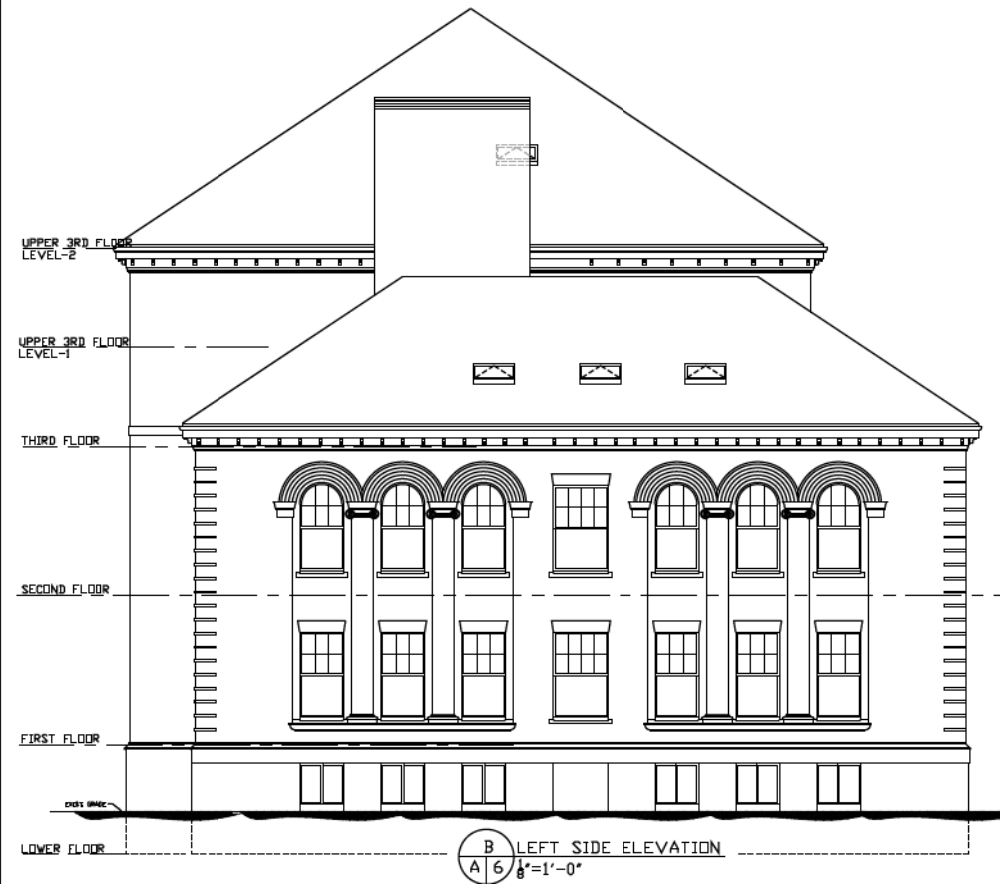
No.	Description	Date
1	ADDED FLOOR LINE	12/9/2011
2	COOLING TOWER ADDED	12/19/2011

BUILDING
ELEVATIONS

A300

10051_40 NORRIS ST.





PROJECT NAME
40 NORRIS STREET

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CAMBRIDGE, MA

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MEP ENGINEER

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REGISTRATION

Project number 10051
Date 11-28-11
Drawn by
Checked by JSK
Scale

REVISIONS

No.	Description	Date
1	ADDED FLOOR LINE	12/9/2011
2	GLASS BLOCK WINDOWS	12/19/2011

BUILDING
ELEVATIONS

A301

10051_40 NORRIS ST.

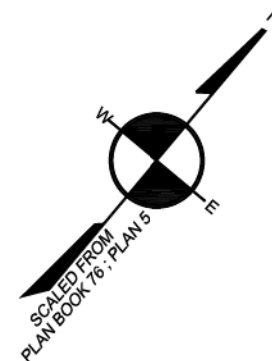
I CERTIFY THAT THIS PLAN WAS MADE FROM AN INSTRUMENT SURVEY ON THE GROUND BETWEEN THE DATES OF JANUARY '10 AND JANUARY 11, 2011 AND ALL STRUCTURES ARE LOCATED AS SHOWN HEREON.

I HEREBY CERTIFY THAT THE PROPERTY LINES SHOWN ARE LINES DIVIDING EXISTING OWNERSHIP AND THE LINES OF STREETS AND WAYS ALREADY ESTABLISHED AND THAT NO NEW LINES FOR THE DIVISION OF EXISTING OWNERSHIP OR FOR NEW WAYS ARE SHOWN.

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED IN CONFORMITY WITH THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS OF THE COMMONWEALTH OF MASSACHUSETTS.

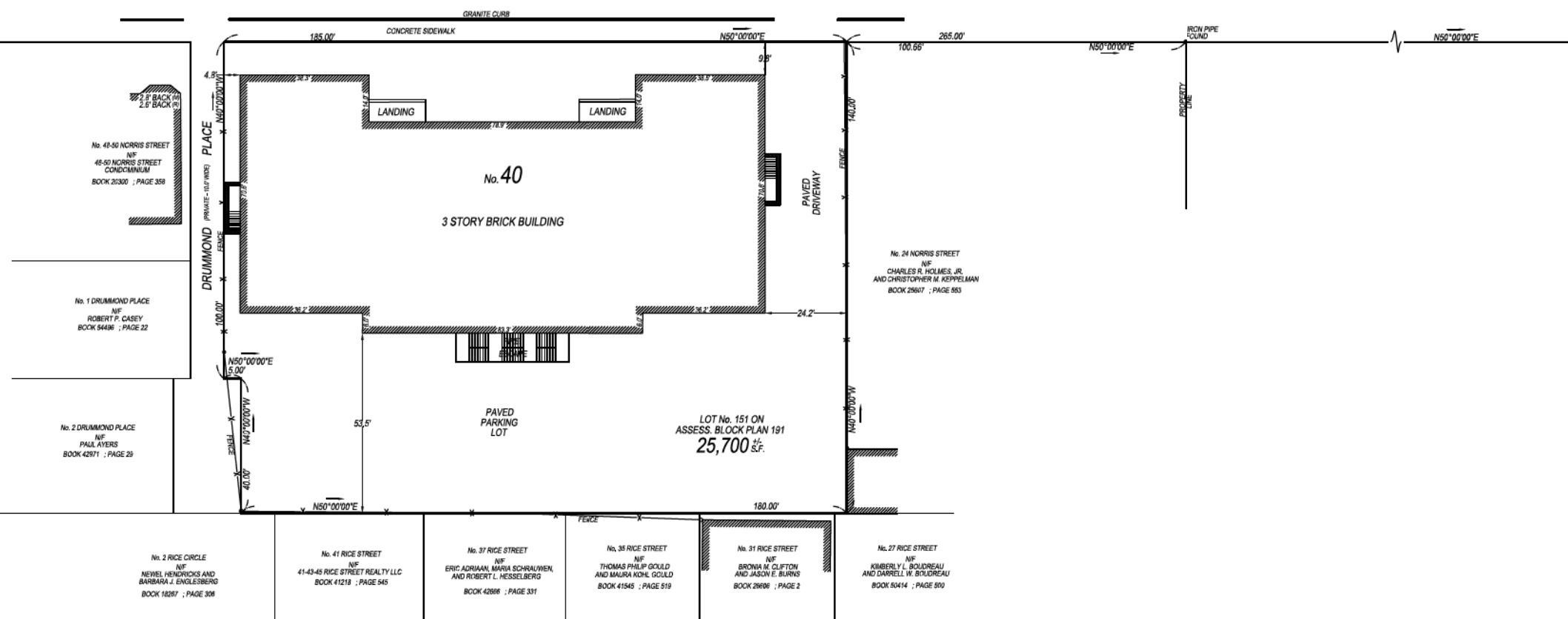
REGISTRY OF DEEDS USE ONLY

GEORGE C. COLLINS P.L.S. _____ DATE _____



MASSACHUSETTS AVENUE

NORRIS (PUBLIC - 40.0' WIDE) STREET



LEGEND
 (M) MEASURED DISTANCE
 (R) RECORD DISTANCE

DATE: JANUARY 13, 2011

REVISION	DATE

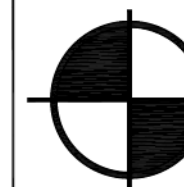
REFERENCES:

DEED: BOOK 55397 ; PAGE 563
 PLAN: PLAN BOOK 76 ; PLAN 5 (A OF 2)
 PLAN IN BOOK 20300 ; PAGE 356

**SITE PLAN OF LAND
 LOCATED AT
 40 NORRIS STREET
 CAMBRIDGE, MA**

PREPARED FOR:

DR. RIZKALLAH
 40 NORRIS STREET
 CAMBRIDGE, MA



**BOSTON
 SURVEY, INC.**
 UNIT C-4 SHIPWAYS PLACE
 CHARLESTOWN, MA. 02129
 (617) 242-1313
 www.bostonsurveyinc.com

S-1

SCALE: 1 INCH = 20 FEET



JOB # 10-00669

JOB # 10-00669-1/13/11

NORRIS STREET RESIDENCES

40 NORRIS STREET
CAMBRIDGE, MA 02140

** PLANNING BOARD SUBMISSION 11-17-2011 **

PROJECT NAME
40 NORRIS STREET

PROJECT ADDRESS
40 NORRIS STREET
CAMBRIDGE, MA

CLIENT
Mouhab Z. Rizkallah

ARCHITECT
KHALSA DESIGN INC.



17 WALDO STREET, SUITE 400
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TELEPHONE 617-591-6882 FAX 617-591-2088

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REGISTRATION

Project number 10051
Date 12-01-11
Drawn by wc
Checked by JSK
Scale

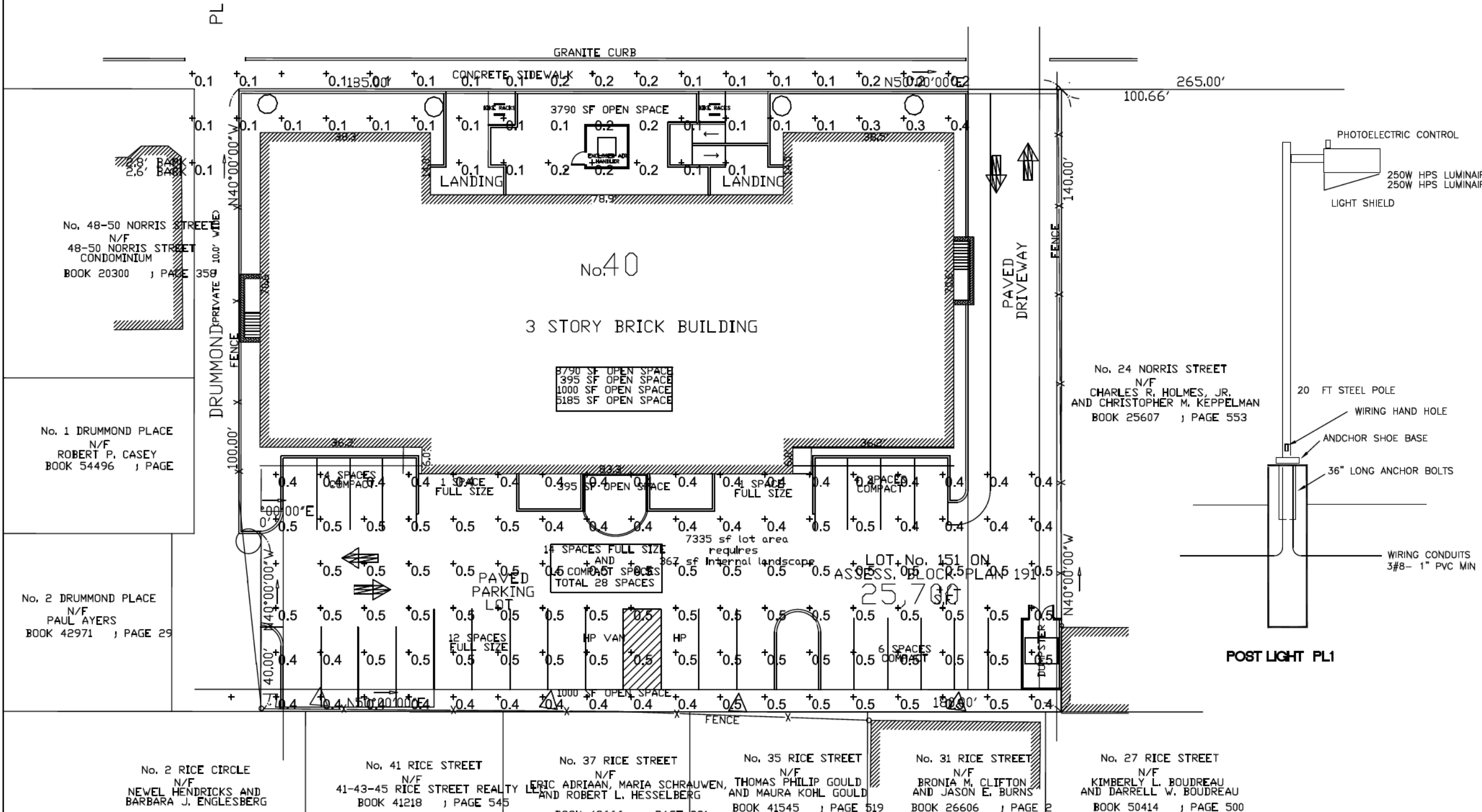
REVISIONS

No.	Description	Date
1		11/29/2011
2	REVISED	12/5/11

PHOTOMETRIC

PH-1

10051_40 NORRIS ST.



COOLING TOWER EXAMPLES



VIEW FROM STREET

Cooling Tower Technology
From Whaley Products, Incorporated

Welcome to CoolingTowerTechnology.com from Whaley Products, Inc. WPI has been in business since 1993 and has established itself as a leader in cooling system design and manufacturing. The purpose of this site is to provide our customers with all of their cooling tower supplies needs. If you are interested in a chiller system, or any other fluid cooling system design, you can visit our sister site at WaterChillingProducts.com for assistance. If you are in need of water chilling parts (such as heat exchangers, compressors, pumps, etc.) you can visit WaterChillingSupply.com for more information.

Specifications and Pricing

Click on tower model number for pricing

Model	Rated Tonnage	Flow GPM	Description	Basin Volume (gal)	Pump Tank Vol. (Horizontal)	Unit Weight (lbs)	Fan Motor HP (1/2 HP)	PLA 200, 250, 300	Standard Air Flow (CFM)	Height (ft)	4" C-Channel Frame Dimensions
150-10	10 Tonn	38 GPM	See 10-Ton S&P	27gal	100 gal	200 lbs	1/2 HP	1220	61 CFM	7'0"	Frame Optional
150-15	15 Tonn	55 GPM	See 15-Ton S&P	37gal	150 gal	300 lbs	3/4 HP	1220	61 CFM	7'0"	Frame Optional
150-20	20 Tonn	72 GPM	See 20-Ton S&P	47gal	200 gal	400 lbs	1 HP	1220	61 CFM	7'0"	Frame Optional
150-25	25 Tonn	90 GPM	See 25-Ton S&P	57gal	250 gal	500 lbs	1 1/4 HP	1220	61 CFM	7'0"	Frame Optional
1750-30	30 Tonn	108 GPM	See 30-Ton S&P	67gal	300 gal	600 lbs	1 1/2 HP	1220	61 CFM	7'0"	Frame Optional
1750-40	40 Tonn	144 GPM	See 40-Ton S&P	87gal	400 gal	800 lbs	2 HP	1220	61 CFM	7'0"	Frame Optional
1550-50	50 Tonn	180 GPM	See 50-Ton S&P	107gal	500 gal	1000 lbs	2 1/2 HP	1220	61 CFM	7'0"	Frame Optional
1550-75	75 Tonn	270 GPM	See 75-Ton S&P	157gal	750 gal	1500 lbs	3 1/2 HP	1220	61 CFM	7'0"	Frame Optional
1850-100	100 Tonn	360 GPM	See 100-Ton S&P	207gal	1000 gal	2000 lbs	5 HP	1220	61 CFM	7'0"	Frame Optional
1850-125	125 Tonn	450 GPM	See 125-Ton S&P	257gal	1250 gal	2500 lbs	6 HP	1220	61 CFM	7'0"	Frame Optional
2-1850-200	200 Tonn	720 GPM	See 200-Ton S&P	517gal	2500 gal	5000 lbs	12 HP	1220	61 CFM	7'0"	See 725/727
2-1850-250	250 Tonn	900 GPM	See 250-Ton S&P	647gal	3125 gal	6250 lbs	15 HP	1220	61 CFM	7'0"	See 725/727
3-1850-300	300 Tonn	1080 GPM	See 300-Ton S&P	777gal	3750 gal	7500 lbs	20 HP	1220	61 CFM	7'0"	See 725/727
3-1850-375	375 Tonn	1350 GPM	See 375-Ton S&P	947gal	4688 gal	9376 lbs	25 HP	1220	61 CFM	7'0"	See 725/727
4-1850-400	400 Tonn	1440 GPM	See 400-Ton S&P	1007gal	5000 gal	10000 lbs	30 HP	1220	61 CFM	7'0"	See 725/727
4-1850-500	500 Tonn	1800 GPM	See 500-Ton S&P	1257gal	6250 gal	12500 lbs	40 HP	1220	61 CFM	7'0"	See 725/727

UNIT CAPACITY RATING:
3 GPM / ton from 95°F to 55°F (at 78°F wet bulb).

PRODUCT CUT SHEET



VIEW FROM BUILDING

PROJECT NAME
40 NORRIS STREET

PROJECT ADDRESS
40 NORRIS STREET
CAMBRIDGE, MA

CLIENT
Mouhab Z. Rizkallah

ARCHITECT
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REGISTRATION

Project number: 10051
Date: 11-28-11
Drawn by: JSK
Checked by: JSK
Scale:

REVISIONS

No.	Description	Date
1	ENLARGED IMAGES	12/14/11

SAMPLE COOLING TOWER

Z-5

10051_40 NORRIS ST.