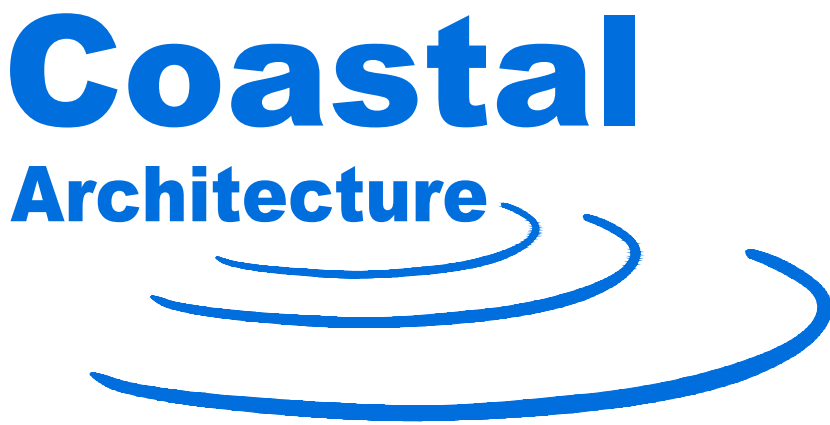


VILLAGE WEST

UNITS 8-9

DRAWING LIST

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Coastal Architecture, DRAWINGS, SPECIFICATIONS AND OTHER DOCUMENTS

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- Architectural Design
- Planning
- Interiors



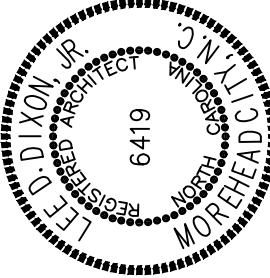
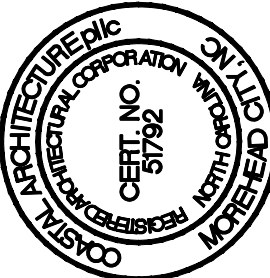
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VILLAGE WEST
UNITS 8-9
EMERALD ISLE, NORTH CAROLINA



COVER SHEET

18030

ISSUED: 03/20/2020
DWG BY: BLS/MES
CKD BY: LDD

REVISIONS

SHEET NO.

CS-1
OF

**2018 BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS**
(EXCEPT ONE- AND TWO-FAMILY DWELLINGS AND TOWNHOUSES)

CONTACT:					
DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural	<i>Coastal Architecture</i>	<i>Lee Dixon</i>	6-419	(352) 241-2121	<i>lee@coastalarchitecture.net</i>
Civil	()	()	()	()	()
Electrical	<i>Burke Design Group</i>	<i>Ben Burke</i>	20238	(919) 1711-1916	<i>benburke@ncnr.com</i>
Fire Alarm	<i>Burke Design Group</i>	<i>Ben Burke</i>	20238	(919) 1711-1916	<i>benburke@ncnr.com</i>
Plumbing	<i>Burke Design Group</i>	<i>Ben Burke</i>	20238	(919) 1711-1916	<i>benburke@ncnr.com</i>
Mechanical	<i>Burke Design Group</i>	<i>Ben Burke</i>	20238	(919) 1711-1916	<i>benburke@ncnr.com</i>
Sprinkler-Standpipe	()	()	()	()	()
Structural	<i>The Cullipier Group</i>	<i>Ron Cullipier</i>	-	(352) 333-0990	<i>ron@icapsa.com</i>
Retaining Walls > 5 feet High	()	()	()	()	()
Other	()	()	()	()	()

CONSTRUCTED: (date) _____ CURRENT USE(S) (Ch. 3): _____
 RENOVATED: (date) _____ PROPOSED USE(S) (Ch. 3): RESIDENTIAL/MERCANTILE
 OCCUPANCY CATEGORY (Table 1604.5): Current: _____ Proposed: _____

GROSS BUILDING AREA TABLE						
	Existing (sq ft)	New (sq ft)				Subtotal
		Units 1-3	Units 4-5	Units 6-7	Units 8-9	Units 10-11
Floor		2,460	1,640	3,034	1,640	1,640
Mercantile		2,460	1,640	3,034	1,640	1,640
1st Floor Living		2,460	1,640	3,034	1,640	1,640
2nd Floor Living		2,460	1,640	3,034	1,640	1,640

TOTAL	31,242
-------	--------

Description of assembly: _____
 U-Value of total assembly: _____
 R-Value of insulation: _____
 Horizontal/vertical requirement: _____
 slab heated: N/A

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1.0$$

$$\frac{10,414}{40,140} = 0.26 + \frac{20,828}{48,440} = 0.43 = 0.69 \leq 1.00$$

1. Frontage area increases from Section 506.2 are computed thus:

- Perimeter which fronts a public way or open space having 20 feet minimum width = 422 (F)
- Total Building Perimeter = 552 (P)
- Ratio $(FP) = \frac{211}{(P)}$
- $W =$ Minimum width of public way = 30 (W)

2. Unlimited area applicable under conditions of Section 507.

3. Maximum Building Area = total number of stories in the building $\times$ D (maximum 3 stories) (506.2).

4. The maximum area of open parking garages must comply with Table 406.5.4. The maximum area of air traffic control towers must comply with Table 406.5.4.

5. Frontage increase is based on the unexpired area value in Table 406.5.4.

SOIL BEARING CAPACITIES:
Field Test (provide copy of test report) _____ psf
Presumptive Bearing capacity 2000 psf
Pile size, type, and capacity _____

List equipment efficiencies: _____

Additional Prescriptive Compliance

- ☐ 506.2.1 More Efficient Mechanical Equipment
- ☐ 506.2.2 Reduced Lighting Power Density
- ☐ 506.2.3 Energy Recovery Ventilation Systems
- ☐ 506.2.4 Higher Efficiency Service Water Heating
- ☐ 506.2.5 On-Site Supply of Renewable Energy
- ☐ 506.2.6 Automatic Daylighting Control Systems

1
G-1 PROJECT SIGN
NOT TO SCALE

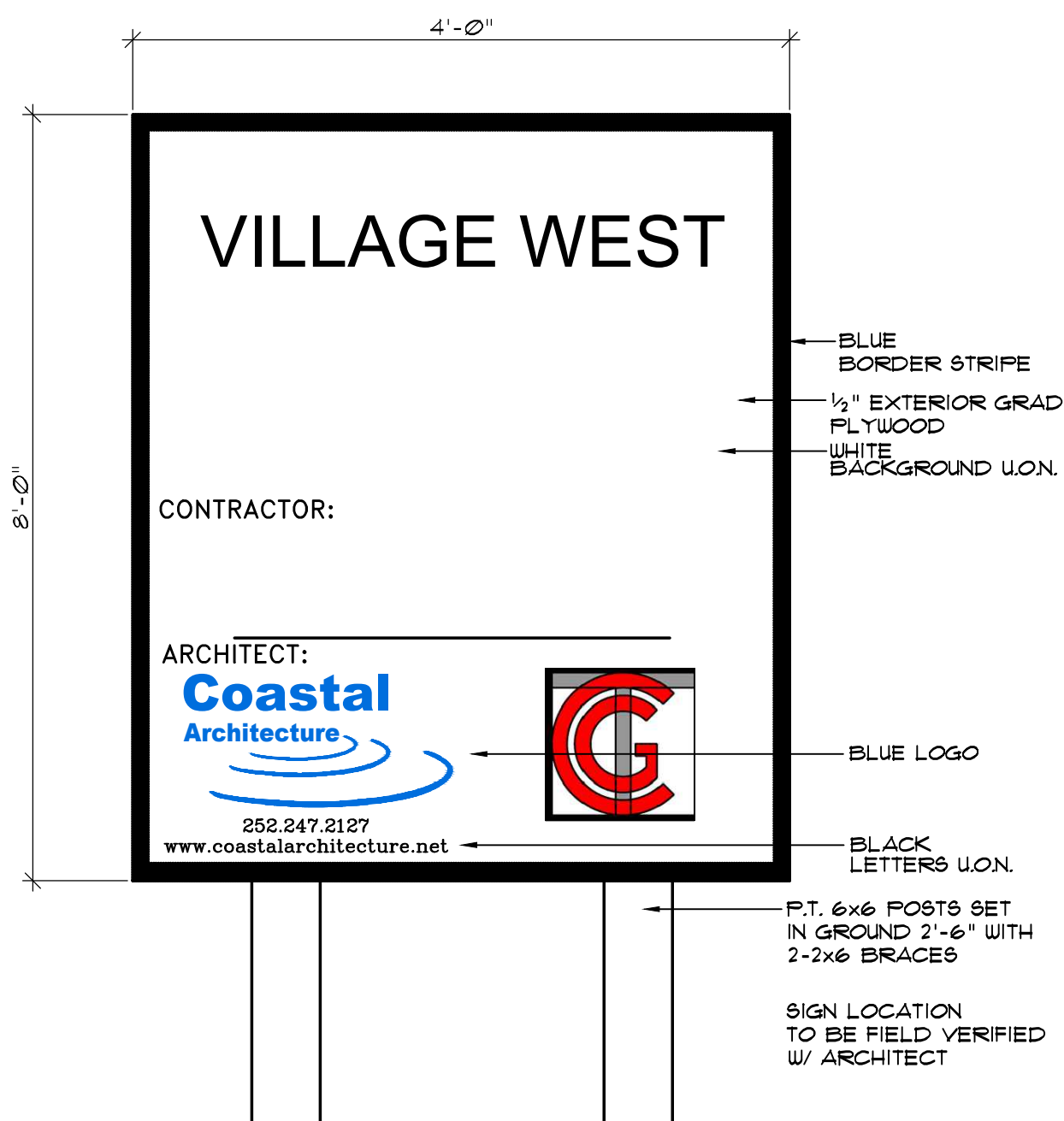
- ✗ Fire and/or smoke rated wall locations (Chapter 7) SEE A-1
- ✗ Assumed and real property line locations (if not on the site plan) SEE SITE PLAN
- ✗ Exterior wall opening area with respect to distance to assumed property lines (705.8) NO LIMIT
- ✗ Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)
- ✗ Occupant loads for each area
- ✗ Exit access travel distances (1017) ALL WELL WITHIN MAXIMUM ALLOWABLE
- ✗ Common path of travel distances (Tables 1006.2.1 & 1006.3.2(1)) ALL WELL WITHIN MAXIMUM ALLOWABLE
- ✗ Dead end lengths (1020.4) NO DEAD END
- ✗ Clear exit widths for each exit door 34.25" EACH
- ✗ Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3) ALL WITHIN MAX ALLOW.
- ✗ Actual occupant load for each exit door ALL WELL WITHIN MAXIMUM ALLOWABLE
- ✗ A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation SEE A-2
- ✗ Location of doors with panic hardware (1010.1.10)
- ✗ Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
- ✗ Location of doors with electromagnetic egress locks (1010.1.9.9)
- ✗ Location of doors equipped with hold-open devices
- ✗ Location of emergency escape windows (1030)
- ✗ The square footage of each fire area (202)
- ✗ The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)
- ✗ Note any code exceptions or table notes that may have been utilized regarding the items above

UNIT ACCESSIBILITY STATEMENT (SECTION 1107)							
TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED
		N/A					

LOT OR PARKING AREA	(SECTION 1106)					TOTAL # ACCESSIBLE SPACES PROVIDED
	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED			
	REQUIRED	PROVIDED	REGULAR WITH 5' ACCESS AISLE	12" ACCESS AISLE	8' ACCESS AISLE	
TOTAL						

USE	WATERCLOSETS			URINALS	LAVATORIES			SHOWERS/ TUBS	DRINKING FOUNTAINS	
	Male	Female	Unisex		Male	Female	Unisex		Regular	Accessible
SPACE MERC- ANTILE	EXIST'G	Ø	Ø	Ø	Ø	Ø	Ø	Ø		Ø
	NEW	1	1	1	Ø	1	1	1		1
	REQ'D	1	1	1	Ø	1	1	1	Ø	
USE	WATERCLOSETS			URINALS	LAVATORIES			SHOWERS/ TUBS	DRINKING FOUNTAINS	
	Male	Female	Unisex		Male	Female	Unisex		Regular	Accessible
SPACE R-2	EXIST'G	Ø	Ø	Ø	Ø	Ø	Ø	Ø		Ø
	NEW	3	3	3	3	3	3	2		Ø
	REQ'D	1	1	1	Ø	1	1	1	Ø	1

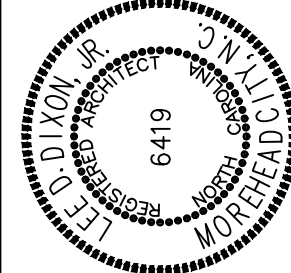
Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, ICC, etc., describe below)



NOTE: SUBMIT SHOP DRAWING FOR
COORDINATION OF LETTER HEIGHTS
=SPECIFIC SIGN COLORS.

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VILLAGE WEST
EMERALD ISLE, NORTH CAROLINA

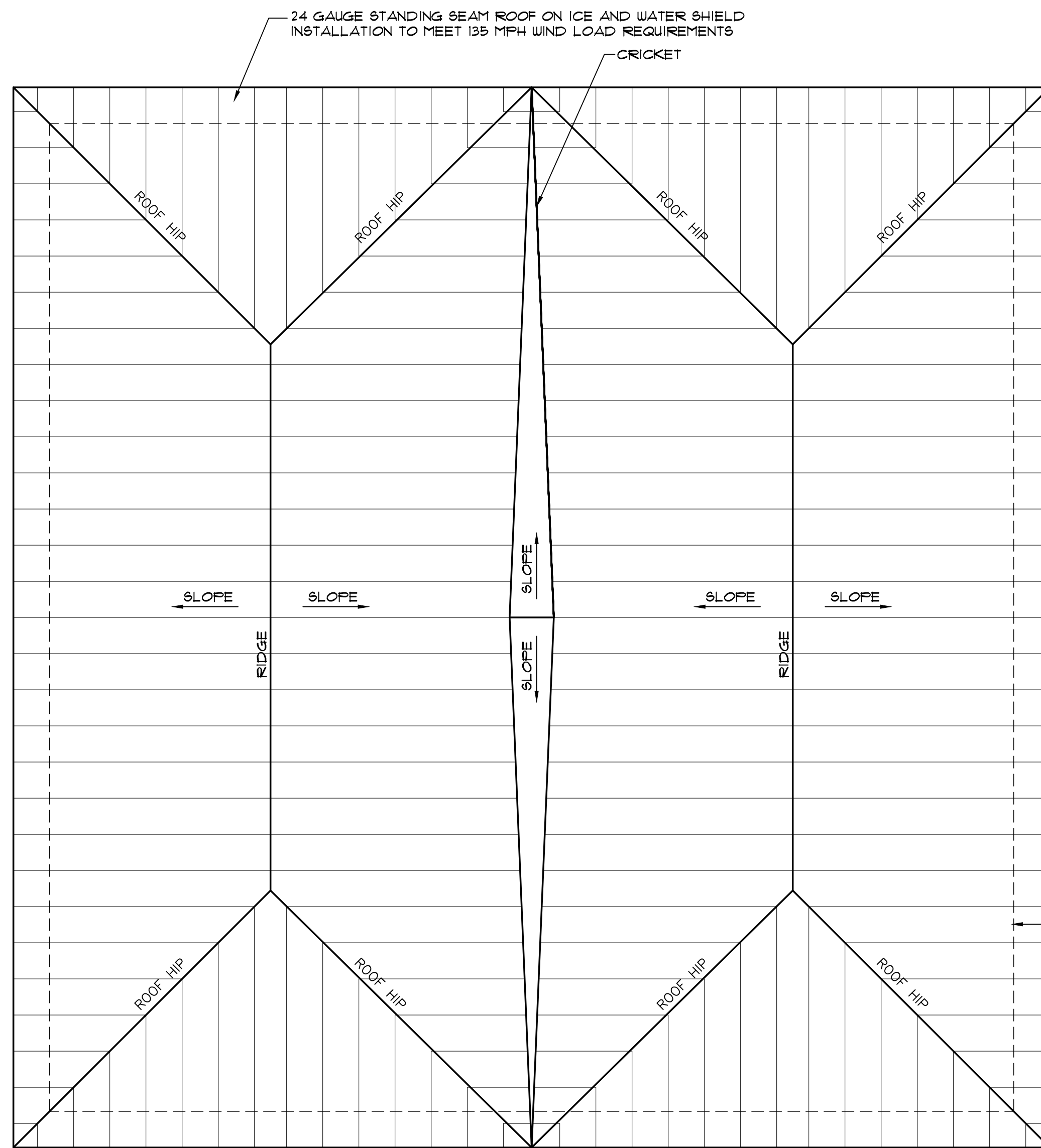
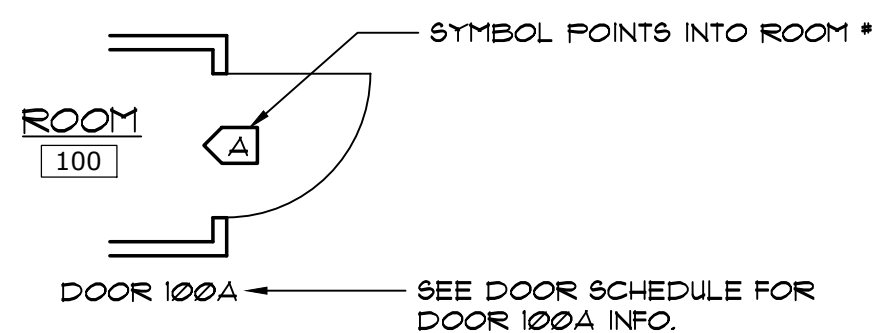
G⁻ |

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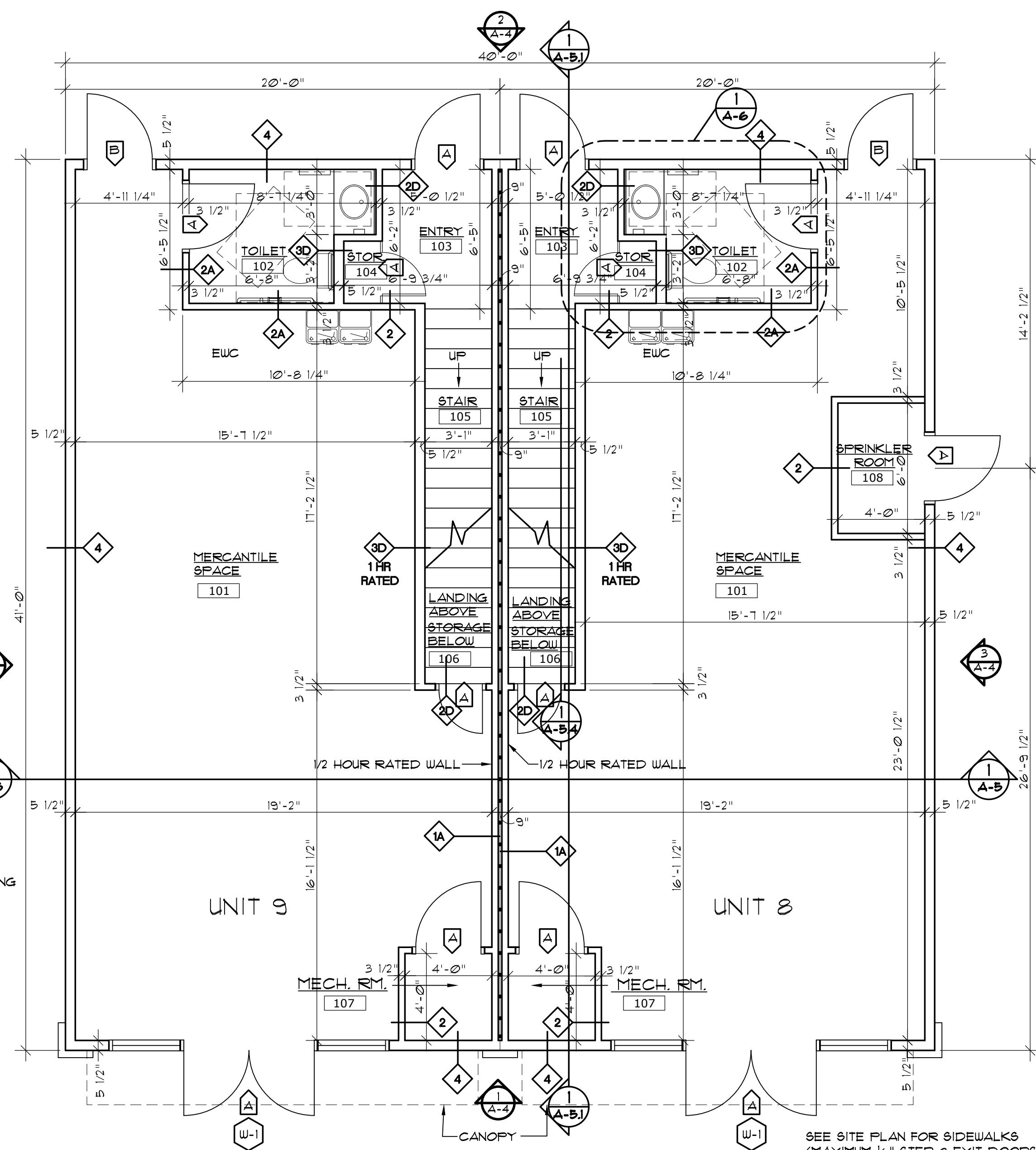
WALL TYPE LEGEND

- 1 2X4 @ 16" O.C. INTERIOR LOADBEARING WALL FROM FLOOR TO STRUCTURE ABOVE (TYP.) W/ 5/8" GUB EACH SIDE
- 1A 2 ROWS 2X4 @ 16" O.C. INTERIOR LOADBEARING WALL FROM FLOOR TO STRUCTURE ABOVE W/ 5/8" TYPE X GUB EACH SIDE (AND 1 LAYER 5/8" IN CAVITY) W/ BATT INSULATION SEE ALSO 2/A-5 & 3/A-5
- B 2 ROWS 2X4 @ 16" O.C. EXTERIOR LOADBEARING WALL W/ 5/8" PLYWOOD AND HARDIE BOARD SIDING INSIDE & OUT W/ R15 BATT INSULATION SEE ALSO 2/A-5 & 3/A-5 SIMILAR
- 1C 2X4 @ 16" O.C. EXTERIOR NON-LOADBEARING WALL W/ 5/8" PLYWOOD AND HARDIE BOARD SIDING INSIDE & OUT W/ R15 BATT INSULATION
- D 2 ROWS 2X4 @ 16" O.C. EXTERIOR LOADBEARING WALL (SEE ALSO 2/A-5 & 3/A-5 SIMILAR) W/ 5/8" PLYWOOD AND HARDIE BOARD SIDING INSIDE & OUT W/ BATT INSULATION
- 2 2X4 @ 16" O.C. INTERIOR NON-LOADBEARING WALL FROM FLOOR TO STRUCTURE ABOVE W/ 5/8" GUB EACH SIDE
- 2A 2X4 @ 16" O.C. INTERIOR NON-LOADBEARING WALL FROM FLOOR TO STRUCTURE ABOVE W/ 5/8" GUB EACH SIDE W/ SOUND BATT INSULATION
- 2B 2X4 @ 16" O.C. INTERIOR NON-LOADBEARING WALL FROM FLOOR TO 6" ABV. CEILING HEIGHT (TYP.)
- 2C 2X4 @ 16" O.C. INTERIOR NON-LOADBEARING WALL FROM FLOOR TO 6" ABV. CEILING HEIGHT BRACE TO STRUCTURE (TYP.) W/ BATT INSULATION
- 2D 2X4 @ 16" O.C. INTERIOR NON-LOADBEARING WALL FROM FLOOR TO 6" ABV. CEILING HEIGHT BRACE TO STRUCTURE (TYP.) W/ BATT INSULATION
- 3 2X6 @ 16" O.C. INTERIOR WALL NON-LOAD BEARING TO STRUCTURE ABOVE (TYP.)
- 3A 2X6 @ 16" O.C. INTERIOR WALL NON-LOAD BEARING TO STRUCTURE ABOVE (TYP.) W/ 5/8" GUB EACH SIDE W/ SOUND BATT INSULATION
- 3B 2X6 @ 16" O.C. INTERIOR NON-LOADBEARING WALL FROM FLOOR TO 6" ABV. CEILING HEIGHT BRACE TO STRUCTURE (TYP.) W/ SOUND BATT INSULATION
- 3C 2X6 @ 16" O.C. INTERIOR LOADBEARING WALL W/ 5/8" TYPE X GUB W/ SOUND BATT INSULATION
- 3D 2X6 @ 16" O.C. INTERIOR LOADBEARING WALL W/ 5/8" TYPE X GUB W/ SOUND BATT INSULATION
- 4 2X6 @ 16" O.C. EXTERIOR (12" O.C. 4'-0" FROM CORNERS) W/ 5/8" PLYWOOD AND HARDIE SIDING W/ 5/8" GUB INTERIOR W/ R15 BATT INSULATION
- 5 2X4 @ 16" O.C. EXTERIOR (12" O.C. 4'-0" FROM CORNERS) W/ 5/8" PLYWOOD AND HARDIE SIDING W/ 5/8" GUB INTERIOR W/ R15 BATT INSULATION
- 6 2X4 @ 16" O.C. INTERIOR LOADBEARING WALL FROM FLOOR TO STRUCTURE ABOVE W/ 5/8" GUB EACH SIDE W/ BATT INSULATION

DOOR SYMBOL LEGEND



2 ROOF PLAN UNITS 8,9
SCALE: 1/4" = 1'-0"

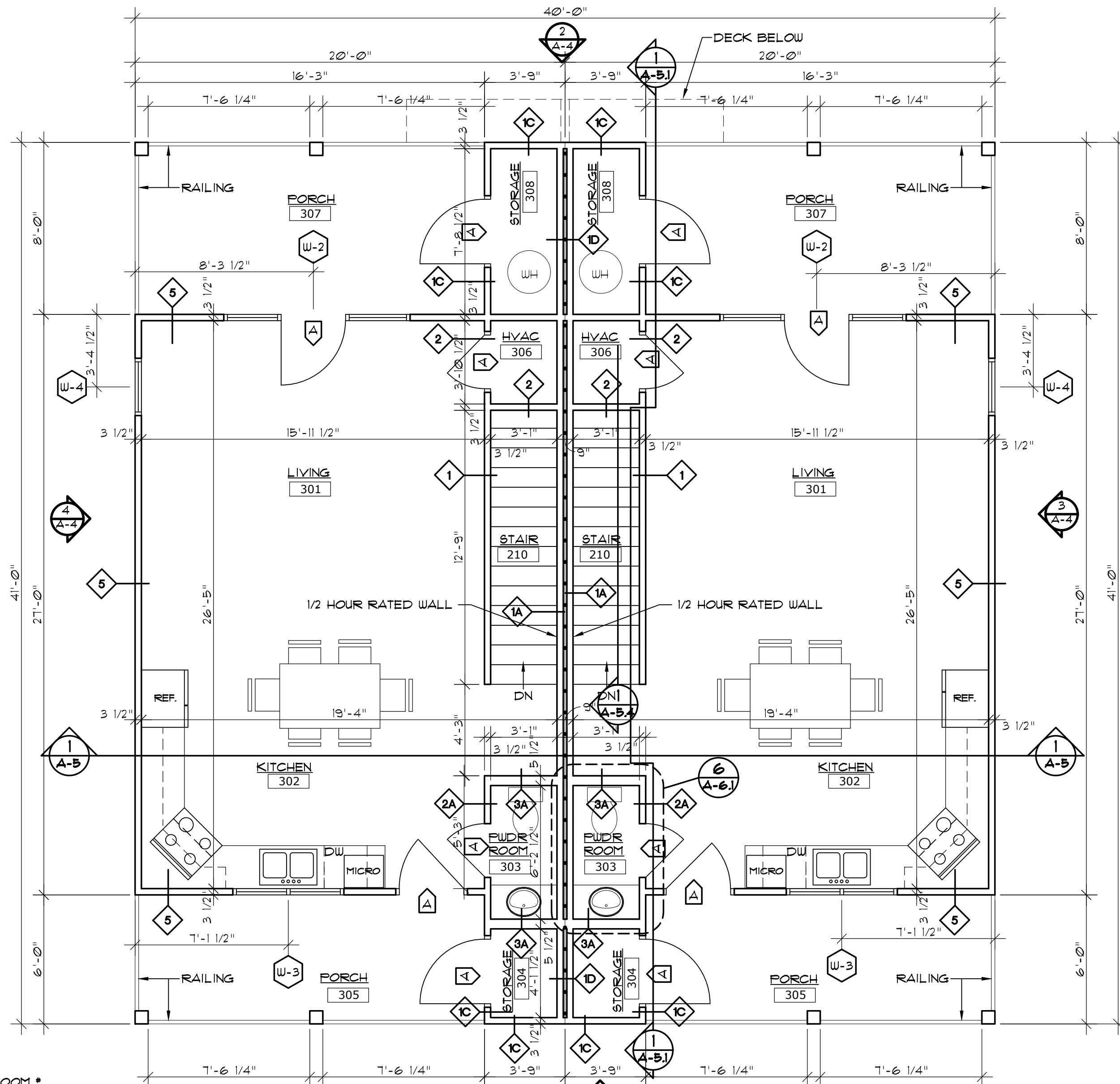
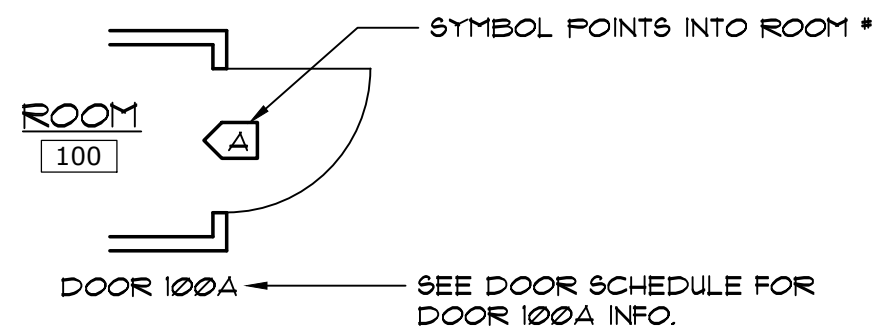


1 MERCANTILE FLOOR PLAN UNITS 8,9
SCALE: 1/4" = 1'-0"

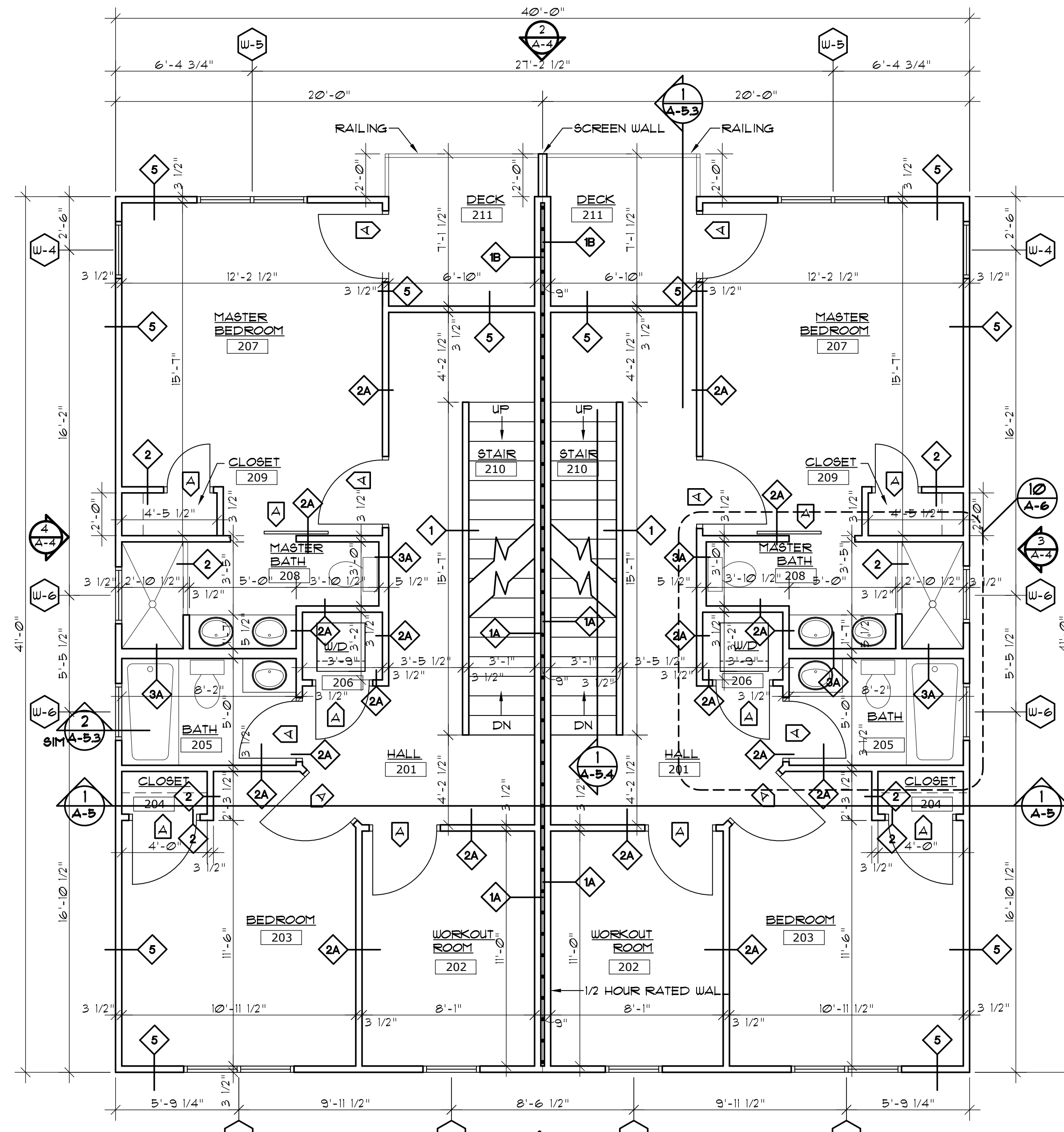
WALL TYPE LEGEND

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- 1A 2 ROWS 2X4 @ 16" O.C. INTERIOR LOADBEARING WALL FROM FLOOR TO STRUCTURE ABOVE W/ 5/8" TYPE X GUB EACH SIDE (AND 1 LAYER 3/8" IN CAVITY) W/ BATT INSULATION SEE ALSO 2/A-5 & 3/A-5
- B 2 ROWS 2X4 @ 16" O.C. EXTERIOR LOADBEARING WALL W/ 5/8" PLYWOOD AND HARDIE BOARD SIDING INSIDE & OUT W/ R15 BATT INSULATION SEE ALSO 2/A-5 & 3/A-5 SIMILAR
- C 2X4 @ 16" O.C. EXTERIOR NON-LOADBEARING WALL W/ 5/8" PLYWOOD AND HARDIE BOARD SIDING INSIDE & OUT W/ R15 BATT INSULATION
- D 2 ROWS 2X4 @ 16" O.C. EXTERIOR LOADBEARING WALL (SEE ALSO 2/A-5 & 3/A-5 SIMILAR) W/ 5/8" PLYWOOD AND HARDIE BOARD SIDING INSIDE & OUT W/ BATT INSULATION
- 2 2X4 @ 16" O.C. INTERIOR NON-LOADBEARING WALL FROM FLOOR TO STRUCTURE ABOVE W/ 5/8" GUB EACH SIDE
- 2A 2X4 @ 16" O.C. INTERIOR NON-LOADBEARING WALL FROM FLOOR TO STRUCTURE ABOVE W/ 5/8" GUB EACH SIDE W/ SOUND BATT INSULATION
- 2B 2X4 @ 16" O.C. INTERIOR NON-LOADBEARING WALL FROM FLOOR TO 6" ABV. CEILING HEIGHT (TYP.)
- 2C 2X4 @ 16" O.C. INTERIOR NON-LOADBEARING WALL FROM FLOOR TO 6" ABV. CEILING HEIGHT BRACE TO STRUCTURE (TYP.) W/ BATT INSULATION
- 2D 2X4 @ 16" O.C. INTERIOR NON-LOADBEARING WALL FROM FLOOR TO 6" ABV. CEILING HEIGHT BRACE TO STRUCTURE (TYP.) W/ BATT INSULATION
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- 3B 2X6 @ 16" O.C. INTERIOR NON-LOADBEARING WALL FROM FLOOR TO 6" ABV. CEILING HEIGHT BRACE TO STRUCTURE (TYP.) W/ SOUND BATT INSULATION
- 3C 2X6 @ 16" O.C. INTERIOR LOADBEARING WALL W/ 5/8" TYPE X GUB W/ SOUND BATT INSULATION
- 3D 2X6 @ 16" O.C. INTERIOR LOADBEARING WALL W/ 5/8" TYPE X GUB - 1 HOUR RATED
- 4 2X6 @ 16" O.C. EXTERIOR (12" O.C. 4'-0" FROM CORNERS) W/ 5/8" PLYWOOD AND HARDIE SIDING W/ 5/8" GUB INTERIOR W/ R15 BATT INSULATION
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- 6 2X4 @ 16" O.C. INTERIOR LOADBEARING WALL FROM FLOOR TO STRUCTURE ABOVE W/ 5/8" GUB EACH SIDE W/ BATT INSULATION

DOOR SYMBOL LEGEND



UNIT 9 UNIT 8
SECOND LIVING FLOOR PLAN UNITS 8,9
 SCALE: 1/4" = 1'-0"



UNIT 9 UNIT 8
FIRST LIVING FLOOR PLAN UNITS 8,9
 SCALE: 1/4" = 1'-0"



- Architectural Design
- Planning
- Interiors



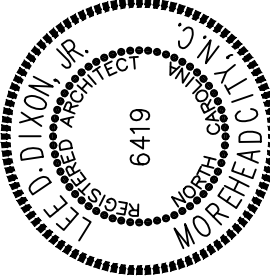
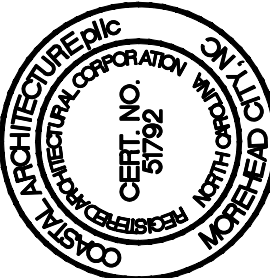
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VILLAGE WEST
UNITS 8,9
EMERALD ISLE, NORTH CAROLINA



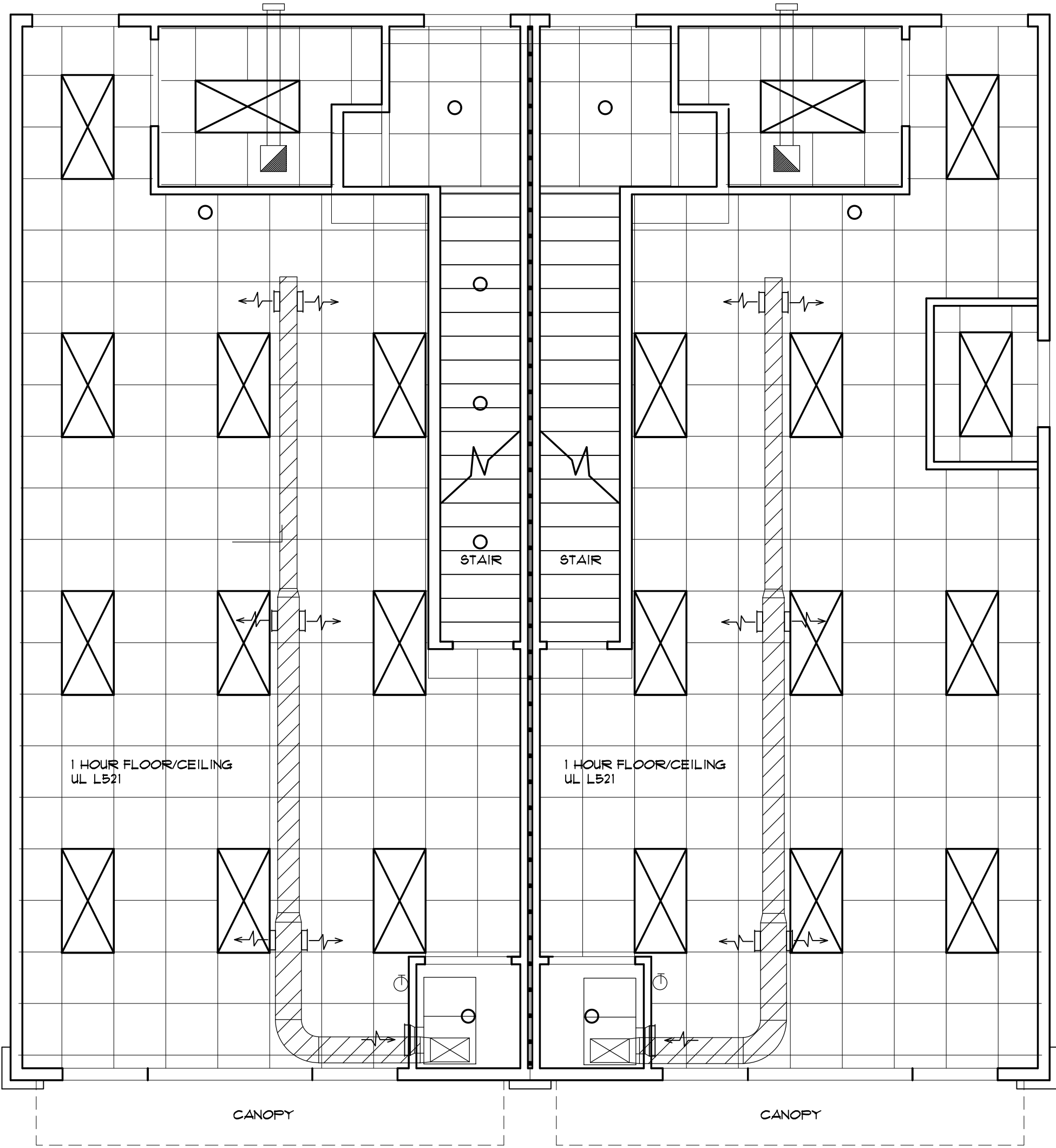
REFLECTED CEILING
PLAN
MERCANTILE FLOOR
UNITS 8,9

18030

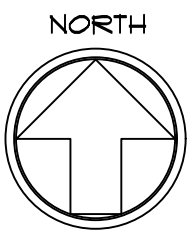
ISSUED: 03/20/2020
DWG BY: BLS/MES
CKD BY: LDD

REVISIONS	

SHEET NO.
A-2
OF



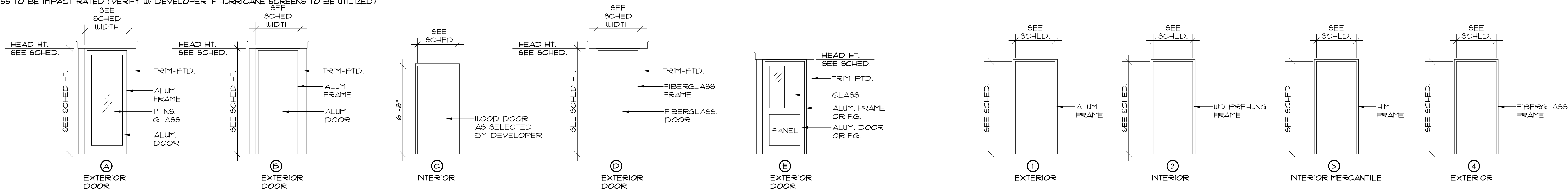
REFLECTED CEILING PLAN MERCANTILE FLOOR
SCALE: 1/4" = 1'-0"
UNITS 8,9



DOOR SCHEDULE (BUILDINGS 8,9)							
DOOR NO.	SIZE	DOOR		FRAME		HEAD HT. SEE DOOR ELEVATIONS	REMARKS
		MAT.	TYPE	MAT.	TYPE		
101A	(2) 3'-0" X 7'-0"	ALUM		ALUM		7'-2"	SEE W-1 WINDOW ELEV.
101B	3'-0" X 7'-0"	ALUM	A	ALUM	1		
102A	3'-0" X 6'-8"	WD	C	WD	2		
103A	3'-0" X 7'-0"	ALUM	A	ALUM	1		
104A	2'-0" X 6'-8"	WD	C	WD	3		
105A	NOT USED						
106A	2'-0" X 6'-8"	WD	C	WD	3		1 HR RATED DOOR & FRAME
107A	3'-0" X 6'-8"	WD	C	WD	2		
108A	3'-0" X 6'-8"	FG	D	FG	4		
201A	N/A						
202A	3'-0" X 6'-8"	WD	C	WD	2		
203A	3'-0" X 6'-8"	WD	C	WD	2		
204A	3'-0" X 6'-8"	WD	C	WD	2		
205A	2'-8" X 6'-8"	WD	C	WD	2		
206A	2'-6" X 6'-8"	WD	C	WD	2		
207A	3'-0" X 6'-8"	WD	C	WD	2		
208A	3'-0" X 6'-8"	WD	C	WD	2		SLIDING DOOR
209A	2'-0" X 6'-8"	WD	C	WD	2		
210A	3'-0" X 6'-8"	WD	C	WD	2		
211A	3'-0" X 8'-0"	ALUM	A	ALUM	1		
301A	SEE ELEVATION	ALUM		ALUM		8'-0"	SEE W-2 WINDOW ELEV.
302A	3'-0" X 8'-0"	ALUM	A	ALUM	1		
303A	2'-6" X 6'-8"	WD	C	WD	2		
304A	3'-0" X 6'-8"	ALUM	A	ALUM	1		
305A	N/A						
306A	3'-0" X 6'-8"	WD	C	WD	2		
307A	N/A						
308A	3'-0" X 6'-8"	ALUM	B	ALUM	1		

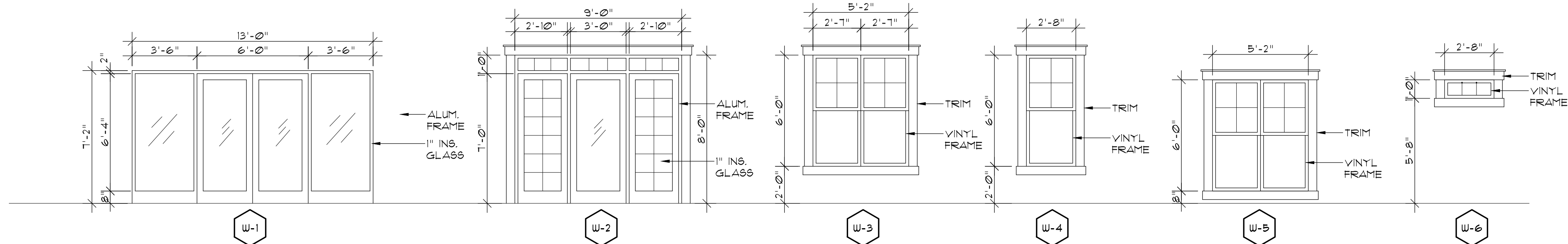
WINDOW SCHEDULE (BUILDINGS 8,9)				
MARK	TYPE	SIZE (NOMINAL)	MODEL	REMARKS
W-1	SEE ELEVATION	13'-0"W X 7'-2"H	TO BE SELECTED BY DEVELOPER	MEET REQ'D WIND LOAD
W-2	SEE ELEVATION	9'-0"W X 8'-0"H		MEET REQ'D WIND LOAD
W-3	DOUBLE HUNG	5'-2"W X 6'-0"H		MEET REQ'D WIND LOAD
W-4	DOUBLE HUNG	2'-8"W X 6'-0"H		MEET REQ'D WIND LOAD
W-5	DOUBLE HUNG	5'-2"W X 6'-0"H		MEET REQ'D WIND LOAD
W-6	FIXED	2'-8"W X 1'-0"H		MEET REQ'D WIND LOAD

ALL EXTERIOR GLASS TO BE IMPACT RATED (VERIFY W/ DEVELOPER IF HURRICANE SCREENS TO BE UTILIZED)



2 DOOR ELEVATIONS
A-3 SCALE: 1/4" = 1'-0"

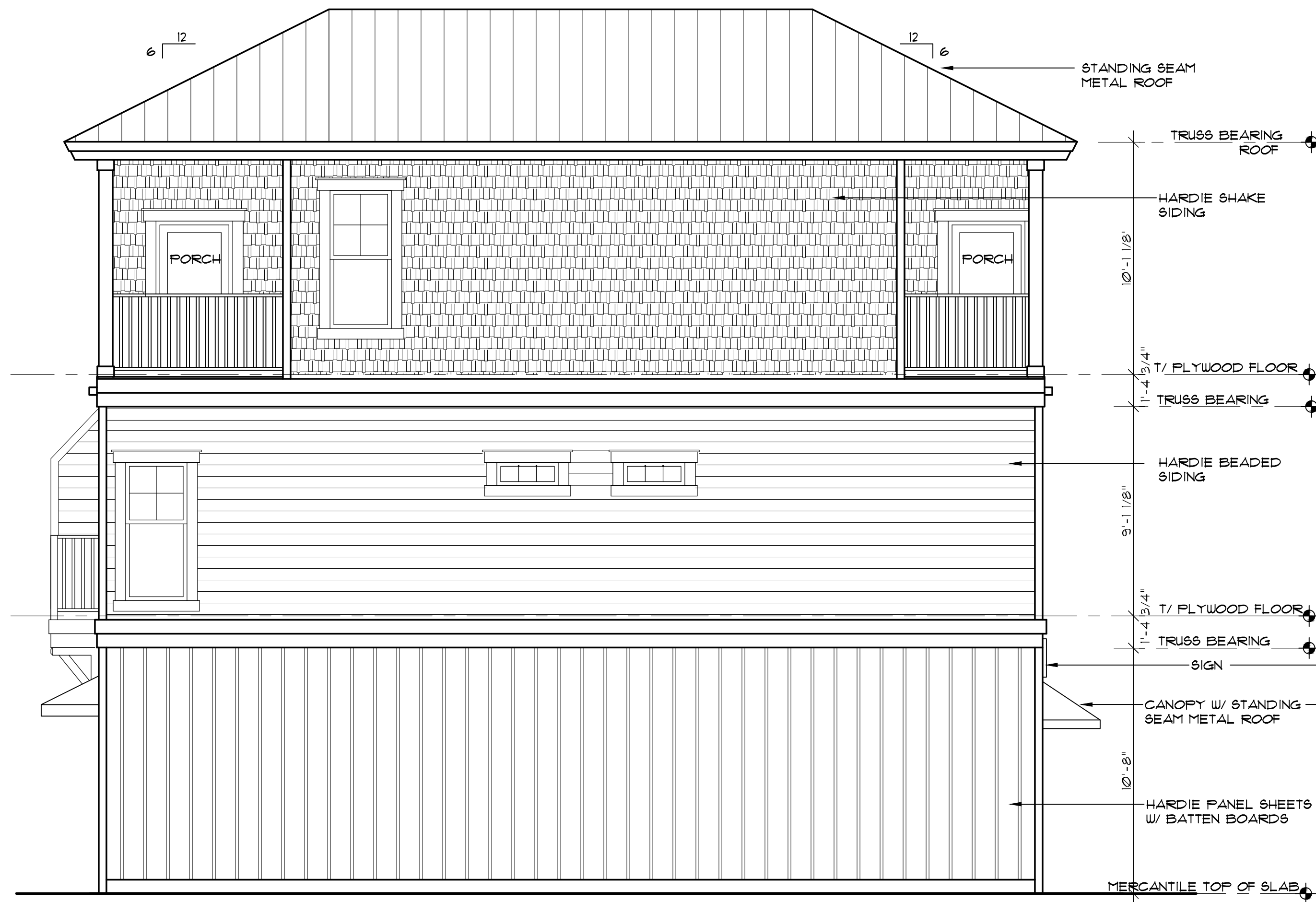
3 DOOR FRAMES
A-3 SCALE: 1/4" = 1'-0"



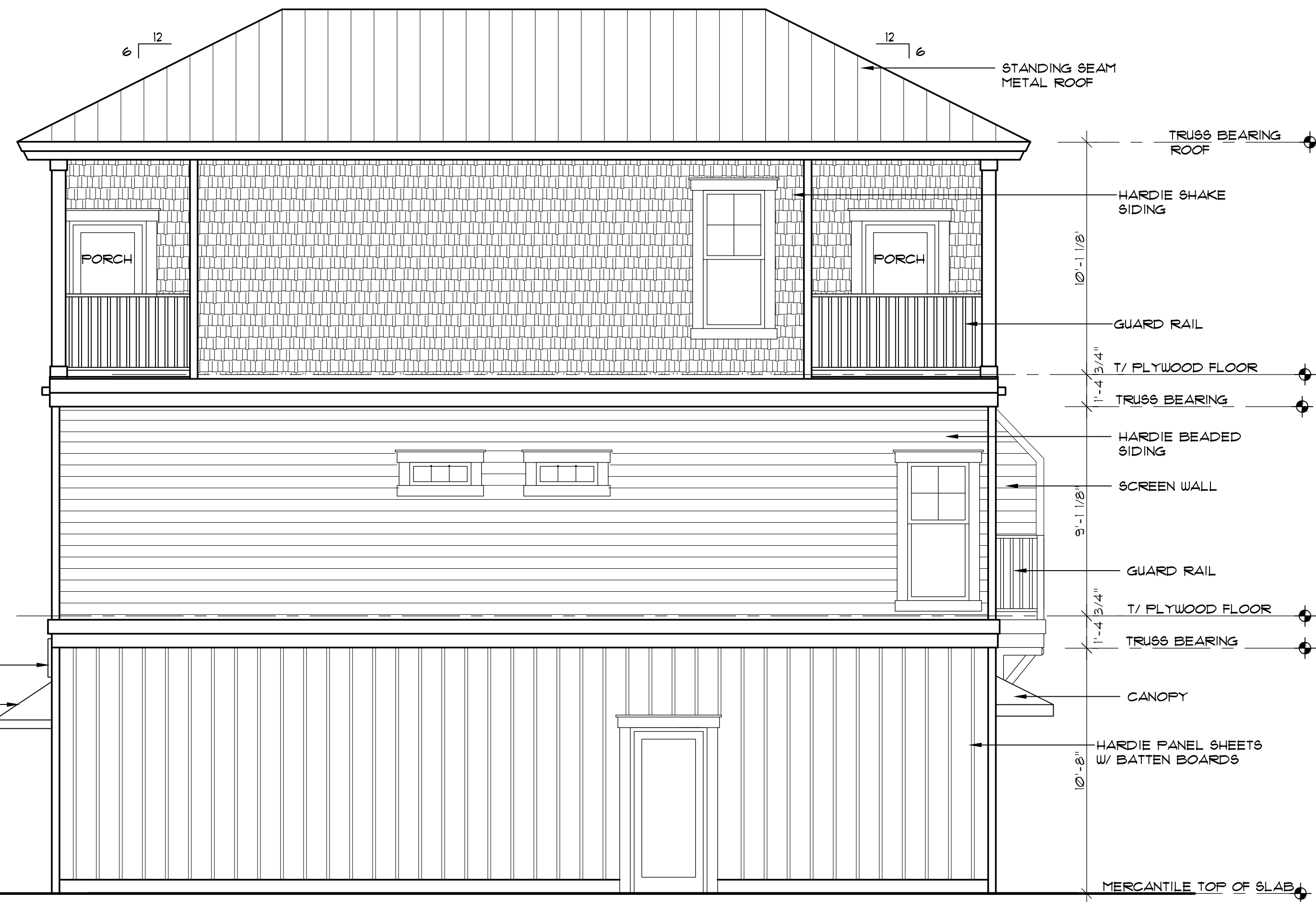
1 WINDOW ELEVATIONS
A-3 SCALE: 1/4" = 1'-0"

ROOM FINISH SCHEDULE (BUILDINGS 8,9)							
ROOM NUMBERS	ROOM	FLOORS	BASE	WALLS	CEILING	HEIGHT (NOMINAL)	REMARKS
101	MERCANTILE SPACE	CONC. SLAB	VINYL	GWB-PTD	ACT	10'-0"±	
102	TOILET	TILE	VINYL	GWB-PTD	ACT		
103	ENTRY	LVP	VINYL	GWB-PTD	ACT		
104	STORAGE	LVP	VINYL	GWB-PTD	ACT		
105	STAIRS	LVP	VINYL	GWB-PTD	ACT		
106	STORAGE	CONC.	VINYL	GWB-PTD	ACT		
107	MECH. RM.	CONC.	VINYL	GWB-PTD	ACT		
108	SPRINKLER RM.	CONC.	VINYL	GWB-PTD	ACT		
201	HALL	LVP	WD-PTD	GWB-PTD	GWB-PTD	9'-0"±	
202	WORKOUT ROOM	LVP					
203	BEDROOM	LVP					
204	CLOSET	LVP					
205	BATH	LVP					
206	LAUNDRY	LVP					
207	MASTER BEDROOM	LVP					
208	MASTER BATH	LVP					
209	CLOSET	LVP					
210	STAIR	LVP					
211	DECK	TRTD WD PLANKS		HARDIE FNL - PTD	HARDIE FNL - PTD		
301	LIVING	LVP	WD-PTD	GWB-PTD	GWB-PTD	10'-0"±	
302	KITCHEN	LVP	WD-PTD	GWB-PTD	GWB-PTD		
303	POWDER ROOM	LVP	WD-PTD	GWB-PTD	GWB-PTD		
304	STORAGE	TRTD PLYWOOD	WD-PTD	HARDIE FNL - PTD	HARDIE FNL - PTD		
305	PORCH	TRTD WD PLANKS		HARDIE FNL - PTD	HARDIE FNL - PTD		
306	HVAC	LVP	WD-PTD	GWB-PTD	GWB-PTD		
307	PORCH	TRTD WD PLANKS		HARDIE FNL - PTD	HARDIE FNL - PTD		
308	STORAGE	TRTD PLYWOOD	WD-PTD	HARDIE FNL - PTD	HARDIE FNL - PTD		

ROOM FINISH SCHEDULE REMARKS
ALL FINISHES TO BE SELECTED BY DEVELOPER



4 WEST ELEVATION
A-4 SCALE: 1/4"=1'-0"
UNITS 8,9



3 EAST ELEVATION
A-4 SCALE: 1/4"=1'-0"
UNITS 8,9



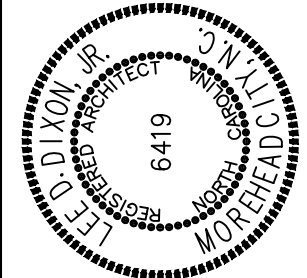
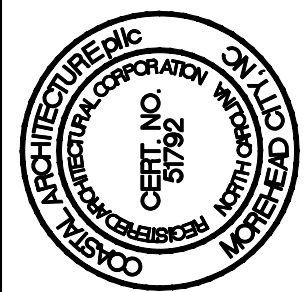
2 NORTH ELEVATION
A-4 SCALE: 1/4"=1'-0"
UNITS 8,9



1 SOUTH ELEVATION
A-4 SCALE: 1/4"=1'-0"
UNITS 8,9

THESE DRAWING AND SPECIFICATIONS REPRESENT AN INSTRUMENT OF SERVICE AND AS SUCH SHALL REMAIN IN OWNERSHIP WITH THE ARCHITECT. USE OR REPRODUCTION BY ANY MEANS, IN WHOLE OR IN PART, WITHOUT THE ARCHITECT'S WRITTEN CONSENT, IS PROHIBITED.

VILLAGE WEST
UNITS 8,9
EMERALD ISLE, NORTH CAROLINA



BUILDING SECTIONS

18030

ISSUED: 03/20/2020

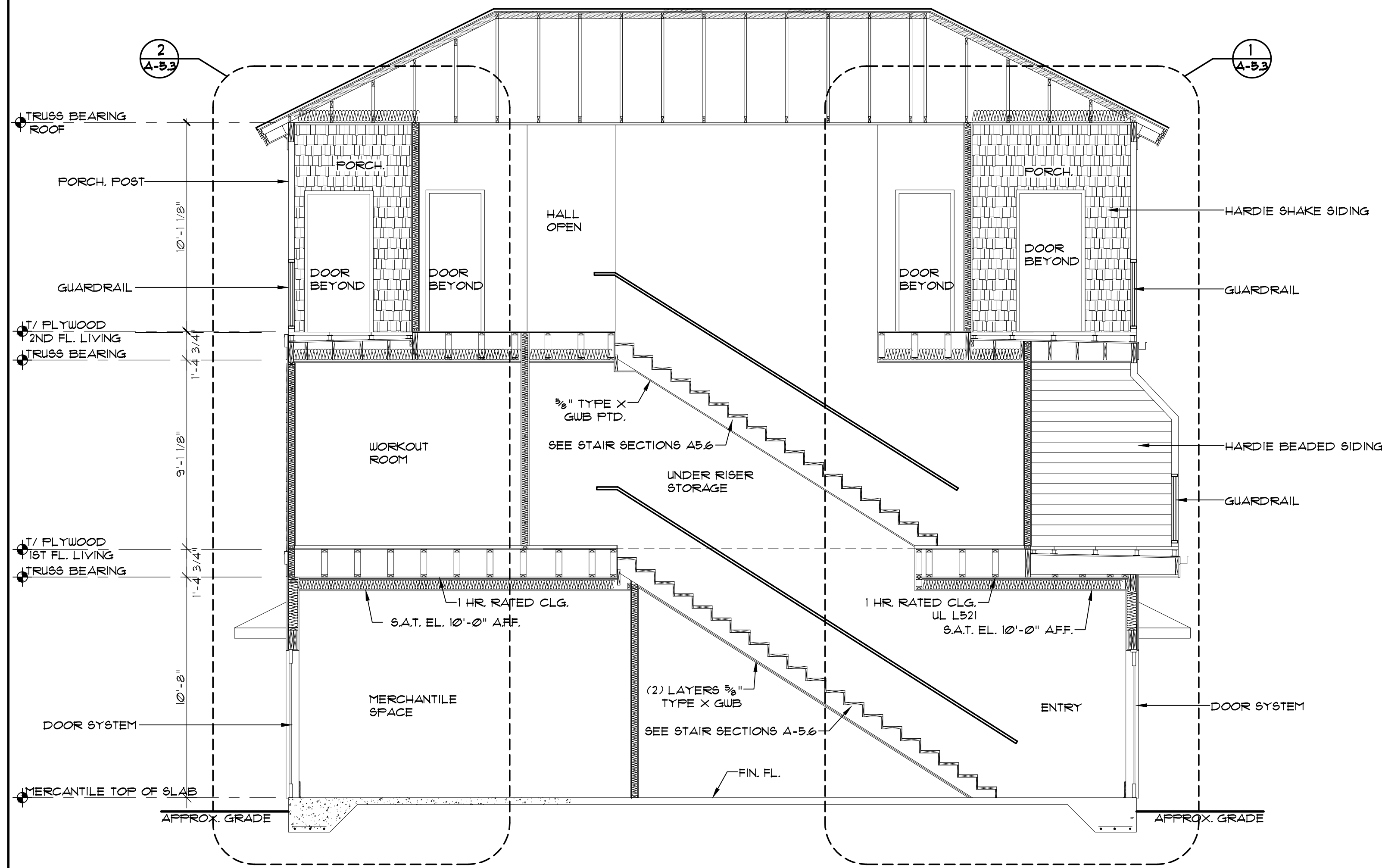
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CKD BY: LDD

REVISIONS

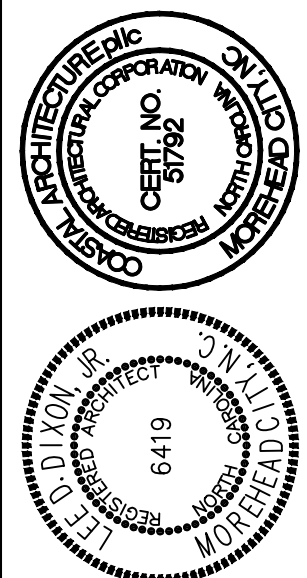
SHEET NO.

A-5.1
OF



BUILDING SECTION BUILDINGS 8,9
SCALE: 1/4"=1'-0"

VILLAGE WEST
UNITS 8,9
EMERALD ISLE, NORTH CAROLINA



WALL SECTIONS
BUILDINGS 8,9

18030

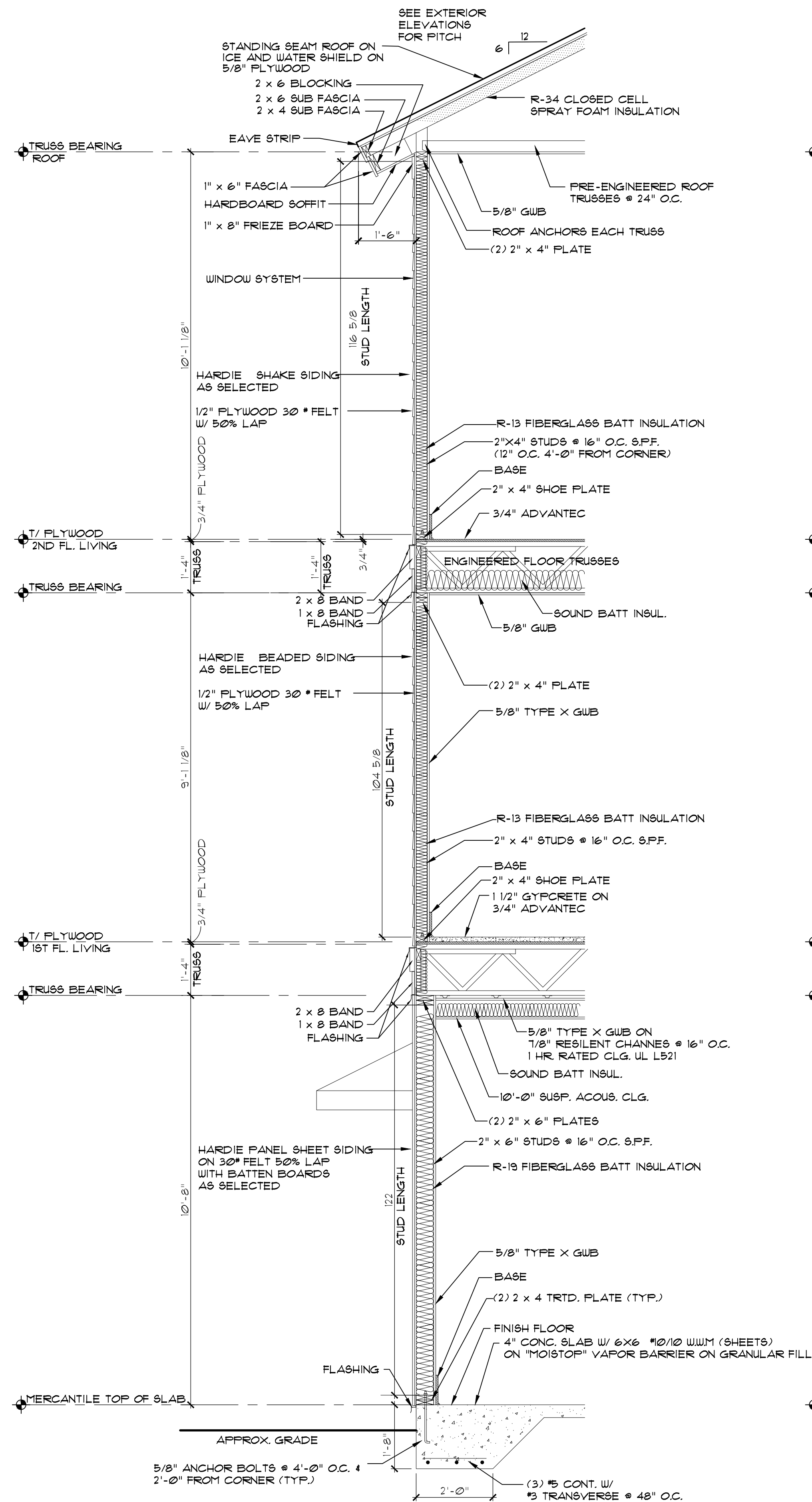
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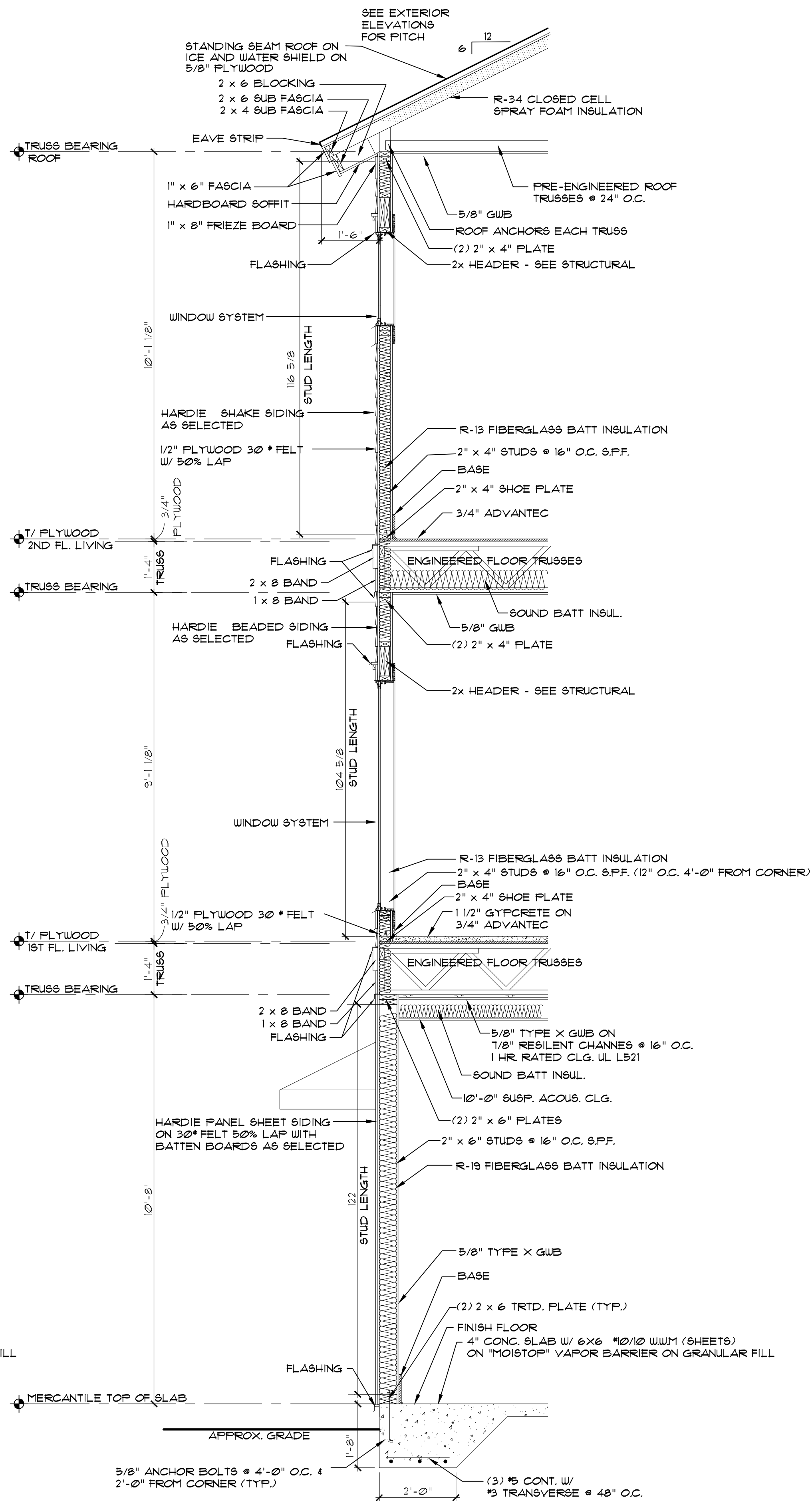
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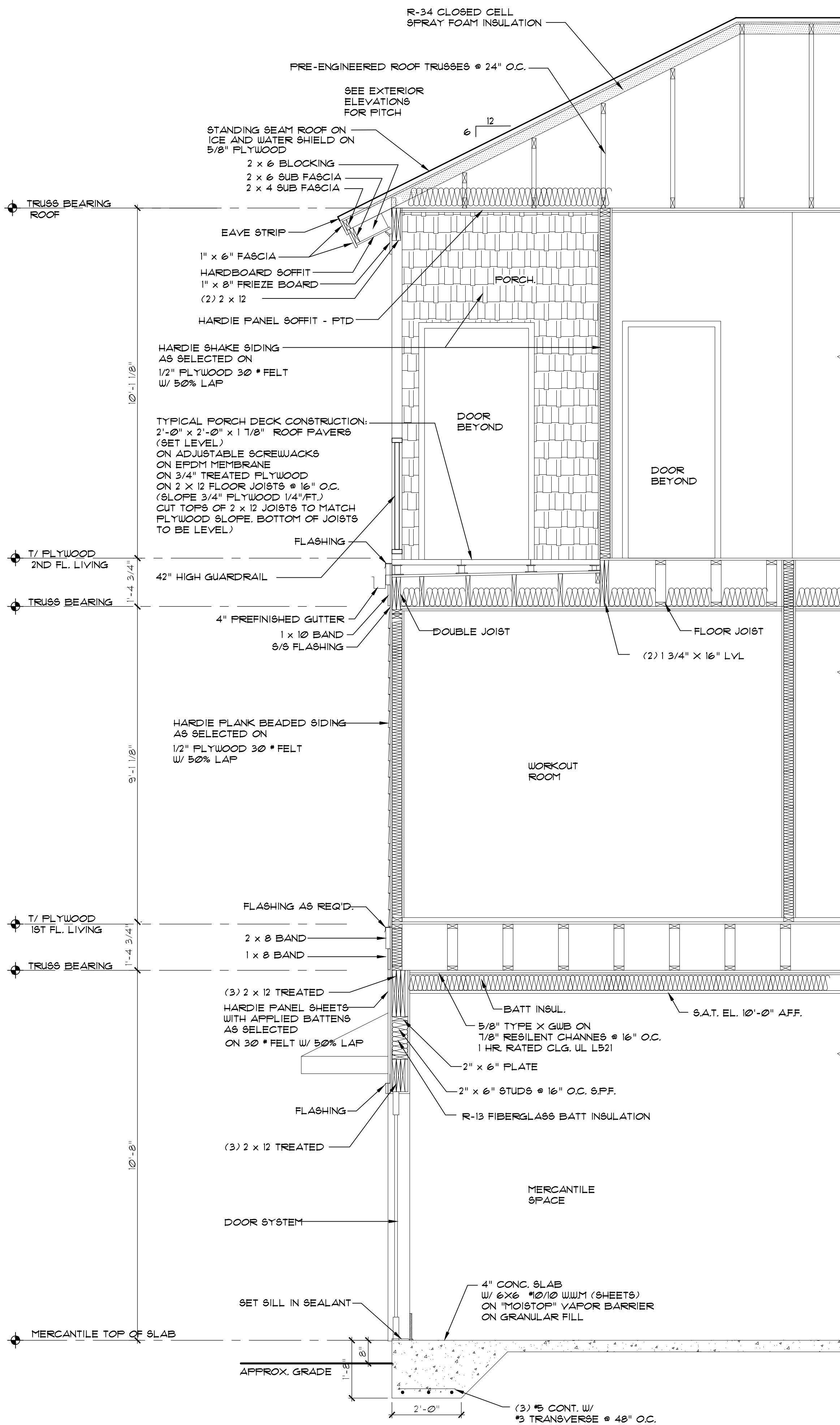
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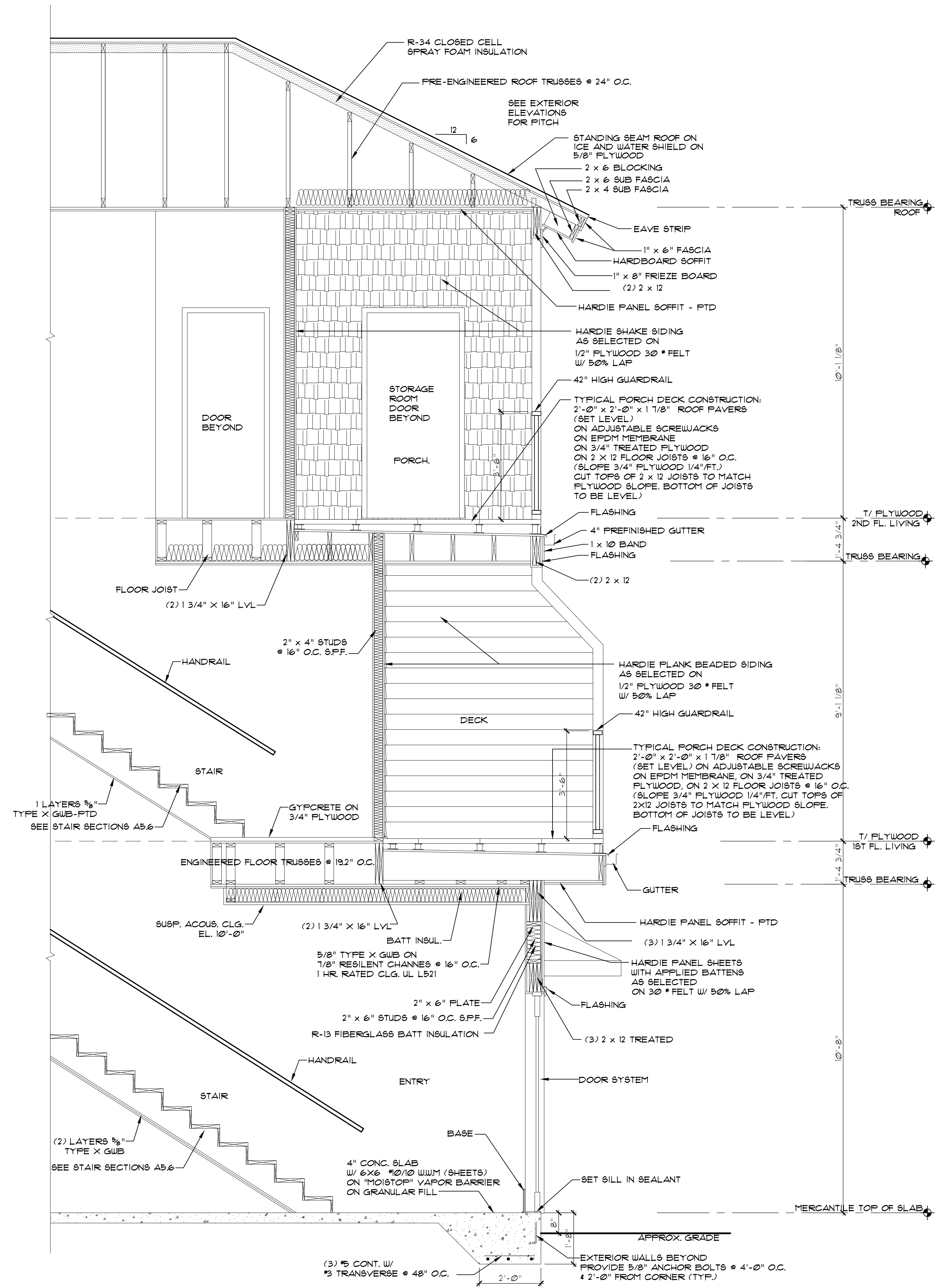
2 WALL SECTION BUILDINGS 8,9
SCALE: 1/2" = 1'-0"



1 WALL SECTION BUILDINGS 8,9
SCALE: 1/2" = 1'-0"

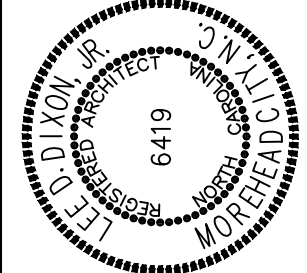
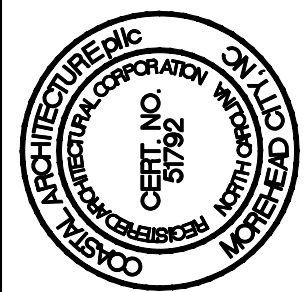


2 WALL SECTION BUILDING 8 SHOWN SCALE: 1/2"=1'-0"



1 WALL SECTION BUILDING 8 SHOWN SCALE: 1/2"=1'-0"

VILLAGE WEST
UNITS 8,9
EMERALD ISLE, NORTH CAROLINA



STAIR DETAILS

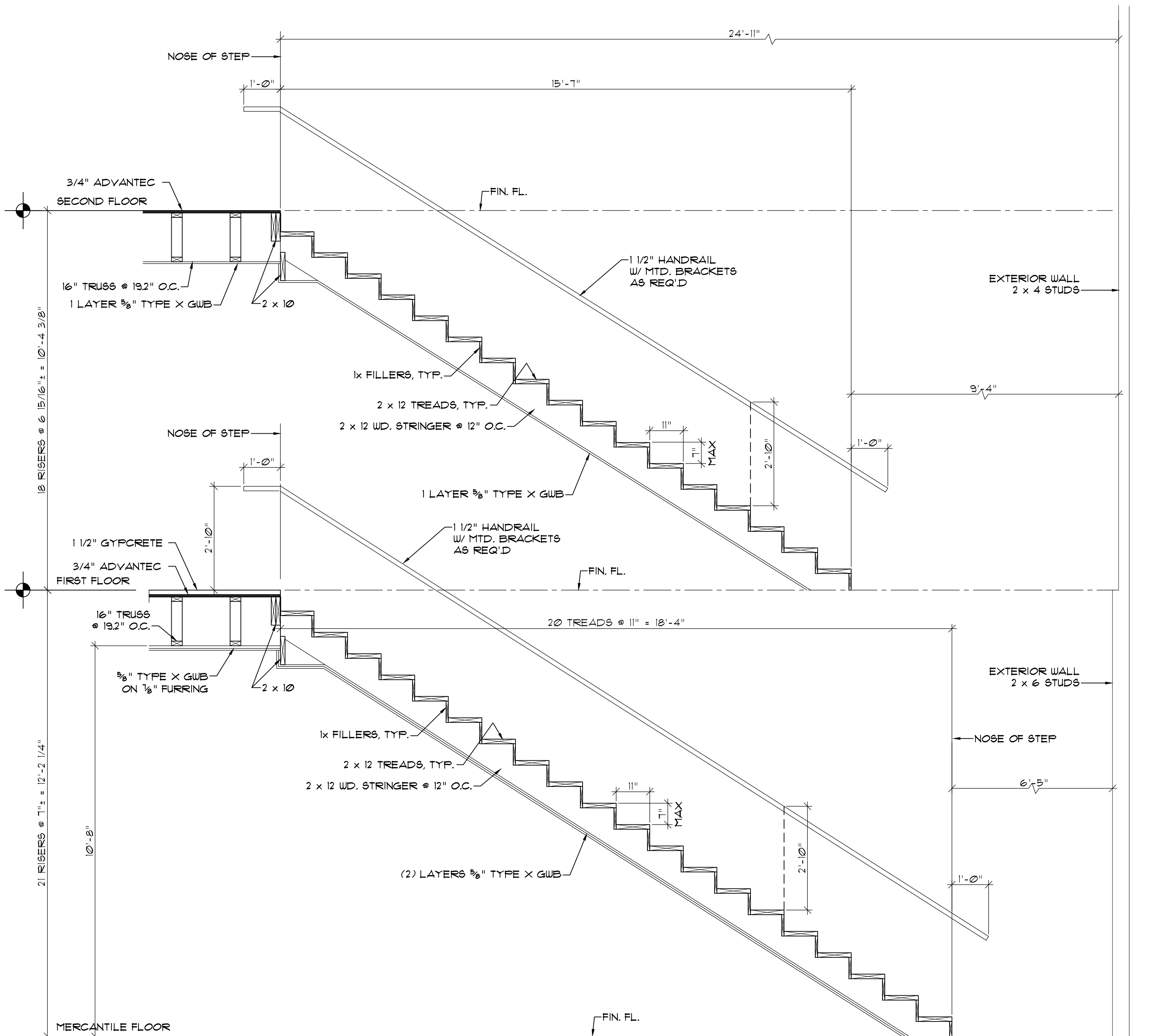
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REVISIONS

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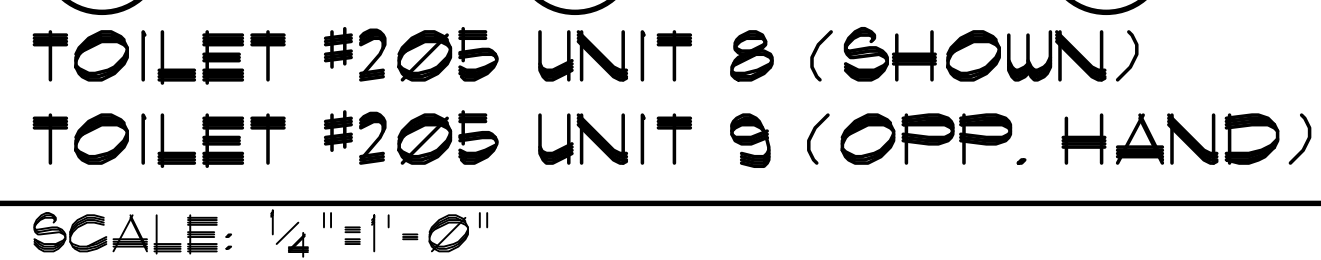
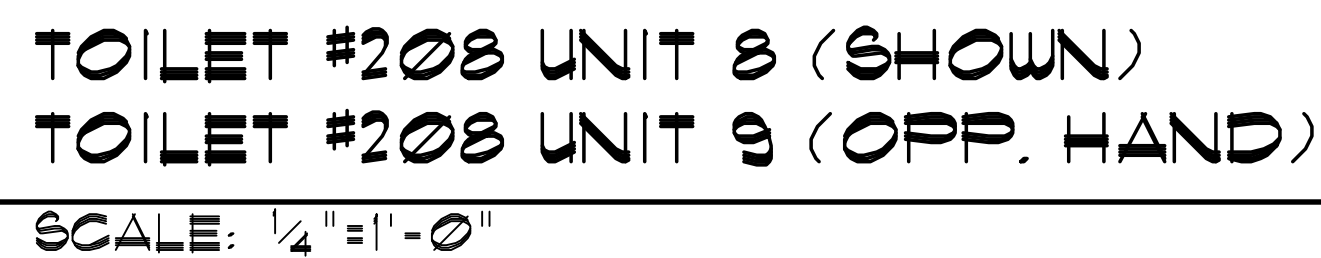
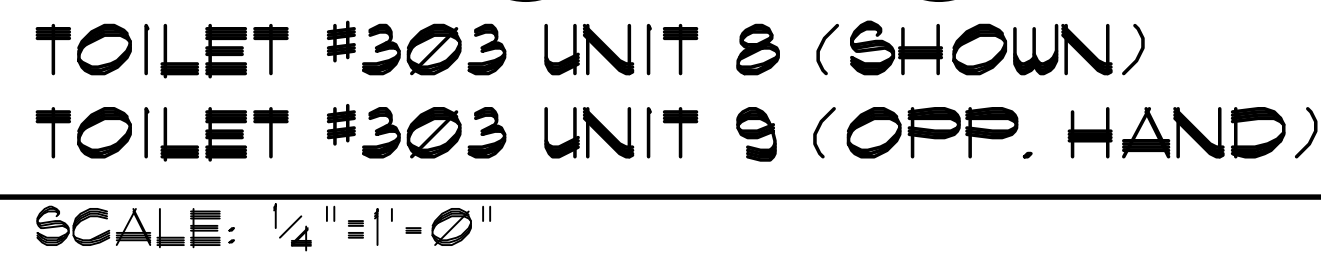
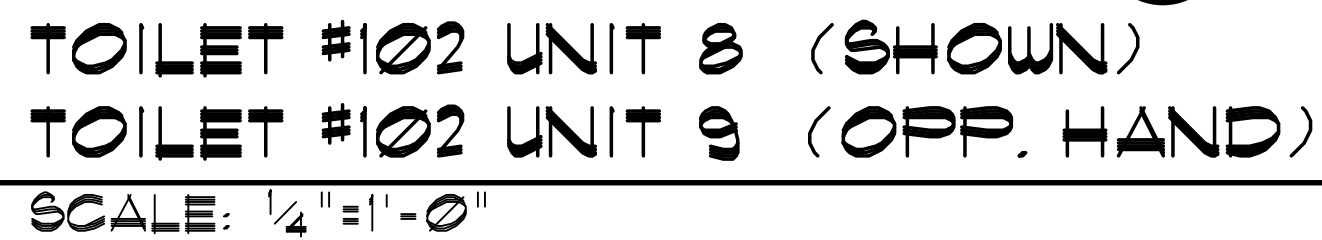
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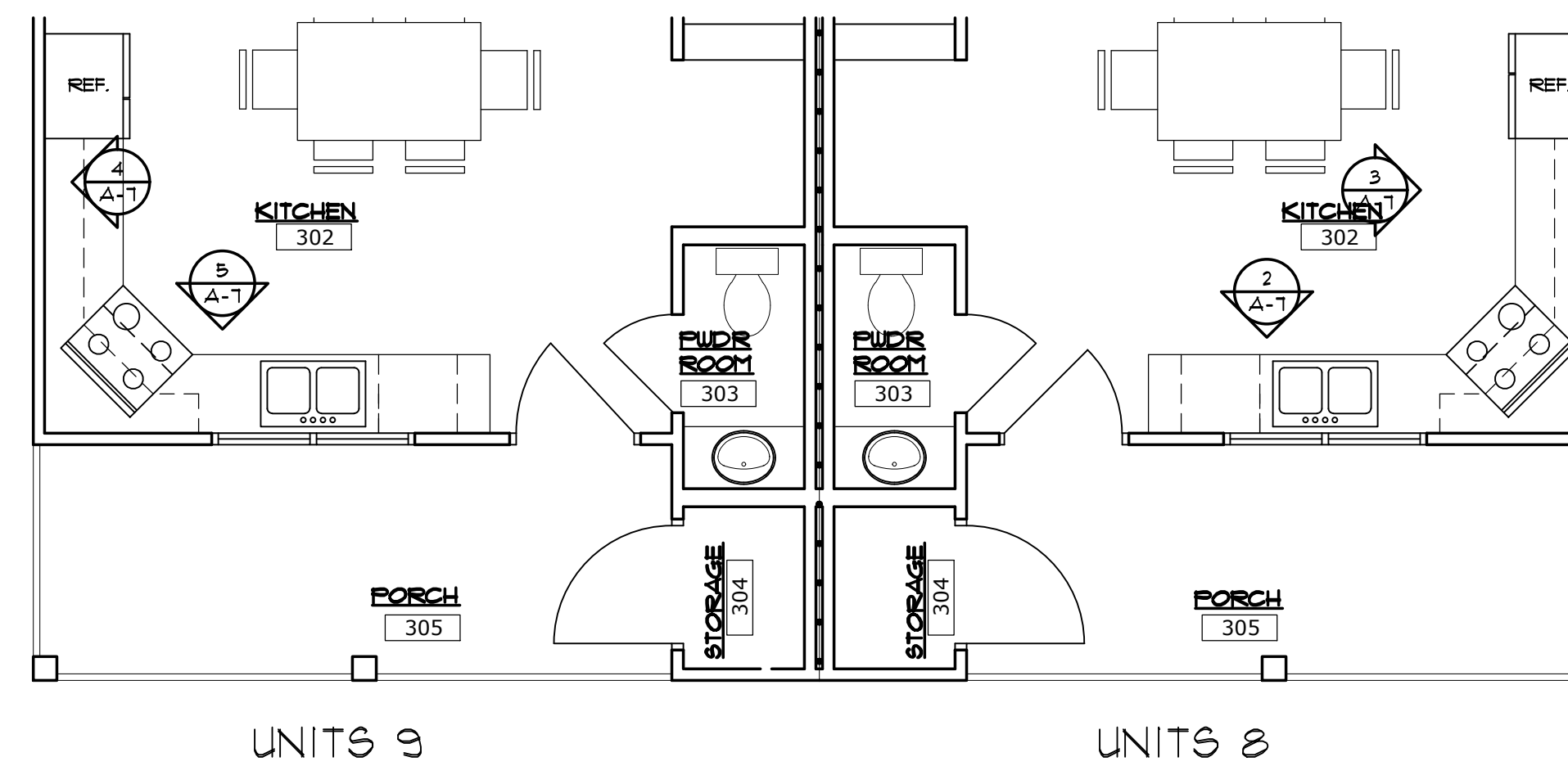


1 STAIR SECTION BUILDINGS 8,9
A-5.4 SCALE: 1/2"=1'-0"

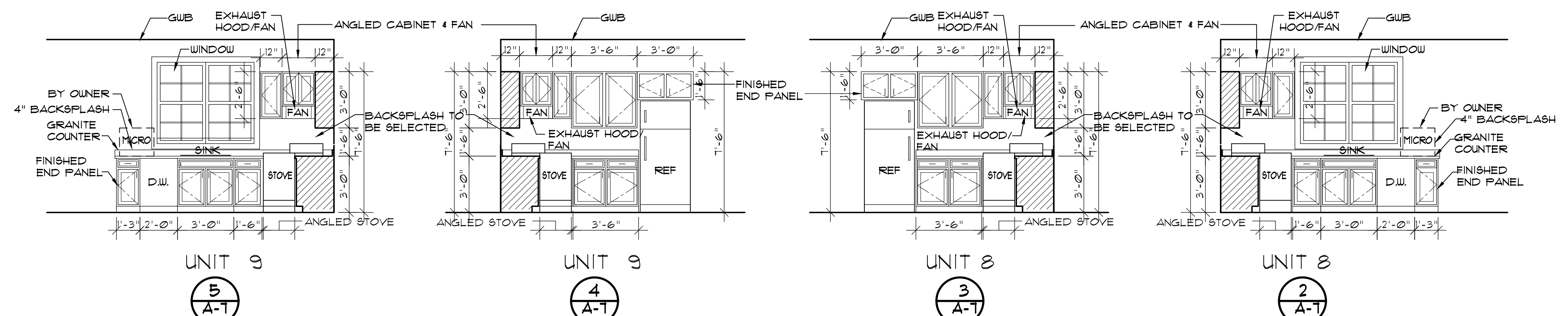
NOTE:

1. ALL MOUNTING HEIGHTS ARE AS SHOWN UNLESS OTHERWISE NOTED.
2. PROVIDE BLOCKING FOR ALL TOILET ACCESSORIES.
3. PROVIDE HANDICAP DOOR SIGNAGE AT ALL TOILET RM. DOORS.
4. SUBMIT ALL ACCESSORIES FOR APPROVAL + FINAL SELECTION BY OWNER.
5. PROVIDE ADA SIGNAGE AT ALL TOILET ROOMS.
6. PROVIDE ADA COMPLIANT DRAIN WRAP AT ALL EXPOSED PIPES/DRAINS.

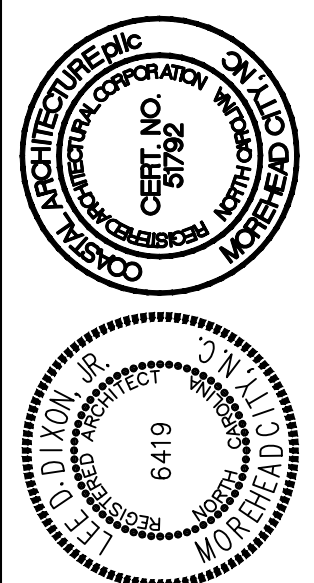




6 FIRST LIVING FLOOR PLAN UNITS 8,9
A-7 SCALE: 1/4"=1'-0"



1 KITCHEN MILLWORK ELEVATIONS
A-7 SCALE: 1/4"=1'-0"



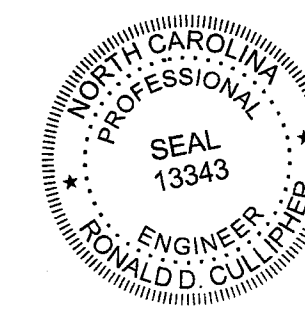
MILLWORK

18030

ISSUED: 03/20/2020
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REVISIONS

SHEET NO.
A-7
OF



Ronald Cullipher
3/25/20

- Architectural Design
- Planning
- Interiors

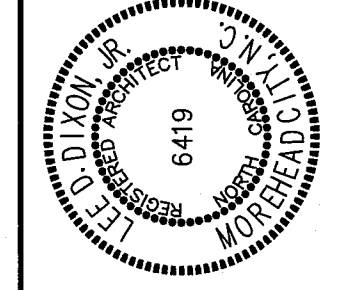
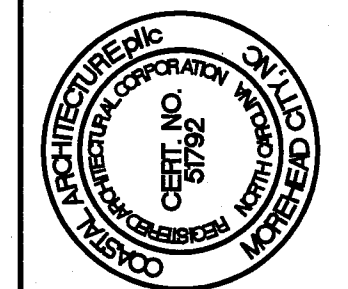


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VILLAGE WEST
UNITS 8-9
EMERALD ISLE, NORTH CAROLINA



MERCANTILE FOUNDATION PLAN
UNITS 8/9

18030

ISSUED: 03/20/2020

DWG BY: BLS

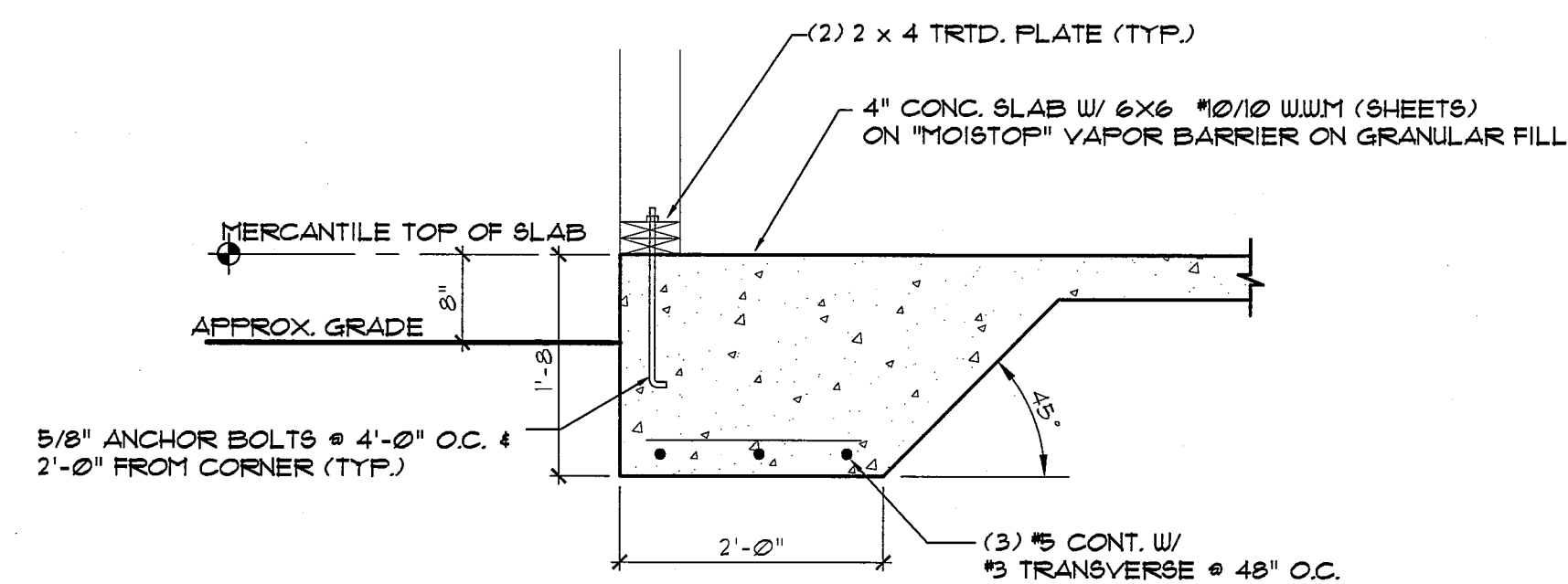
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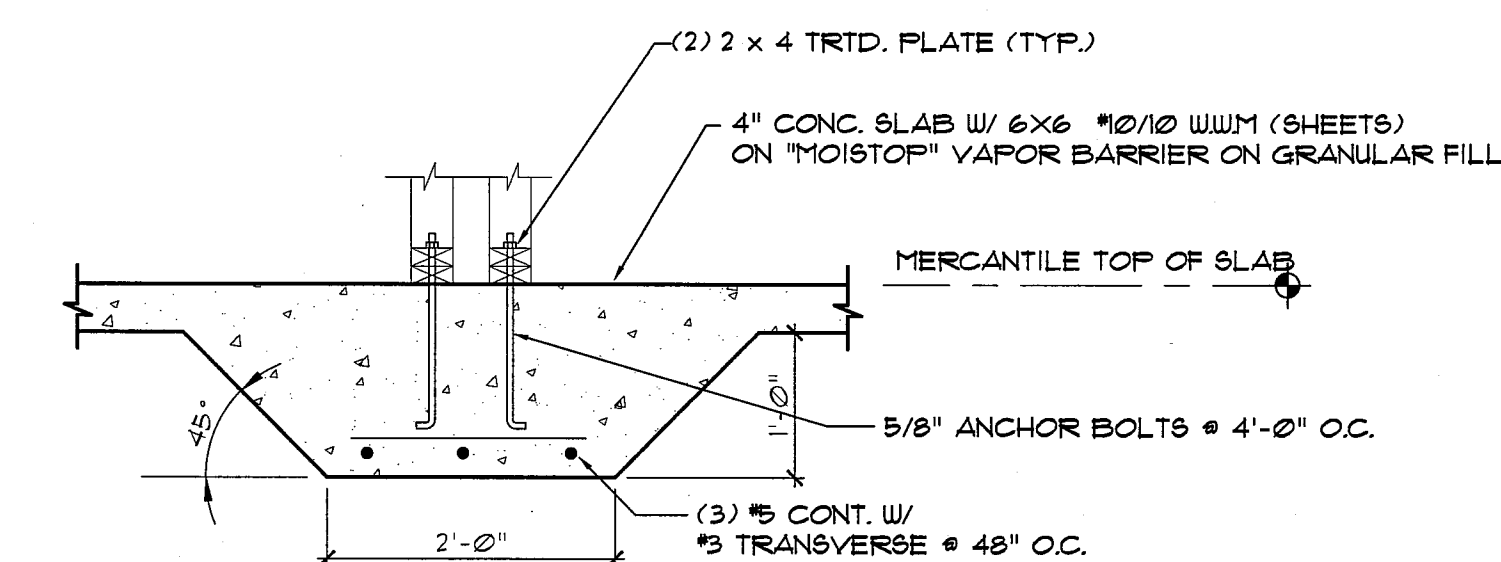
SHEET NO.

S-1

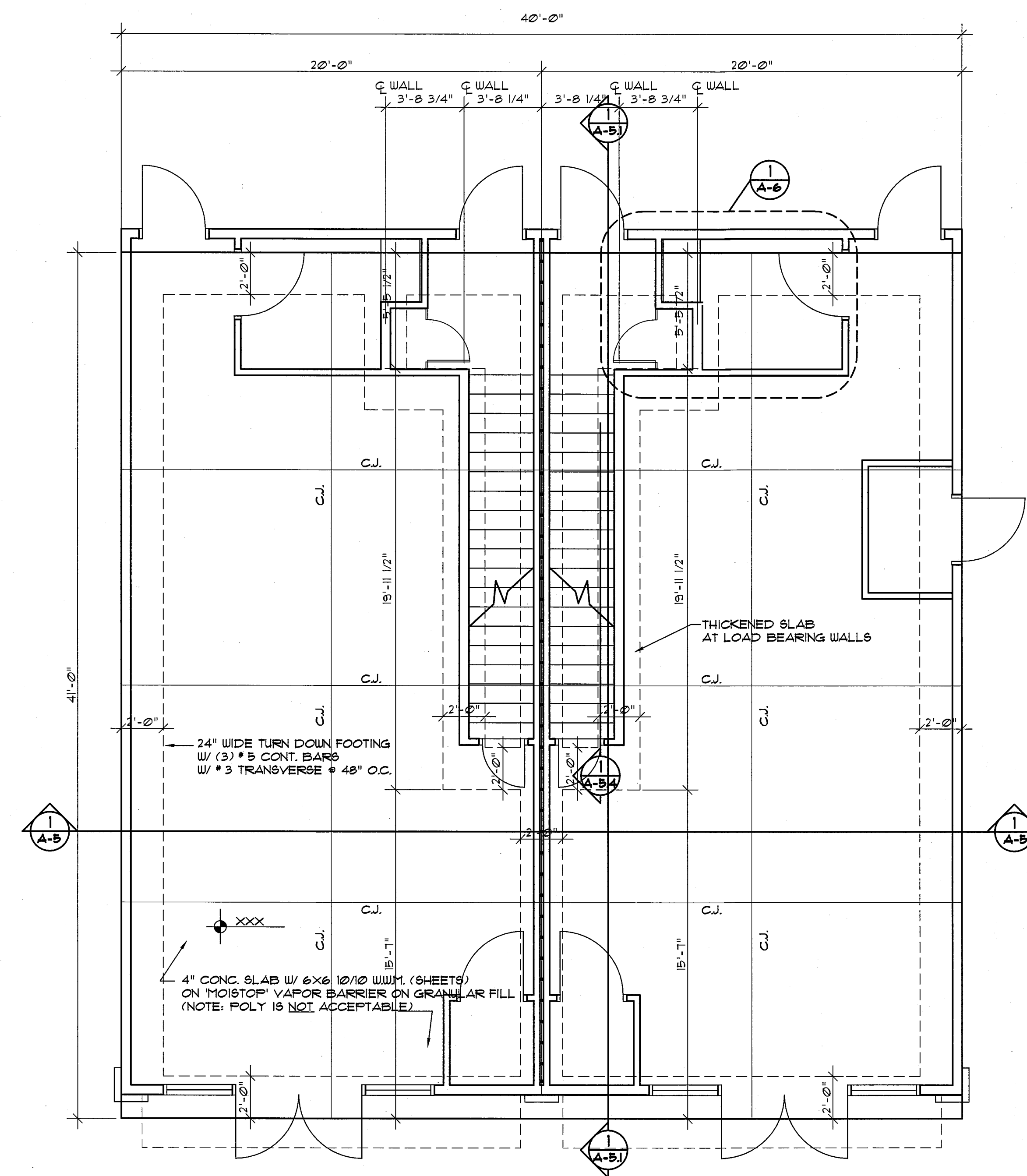
OF



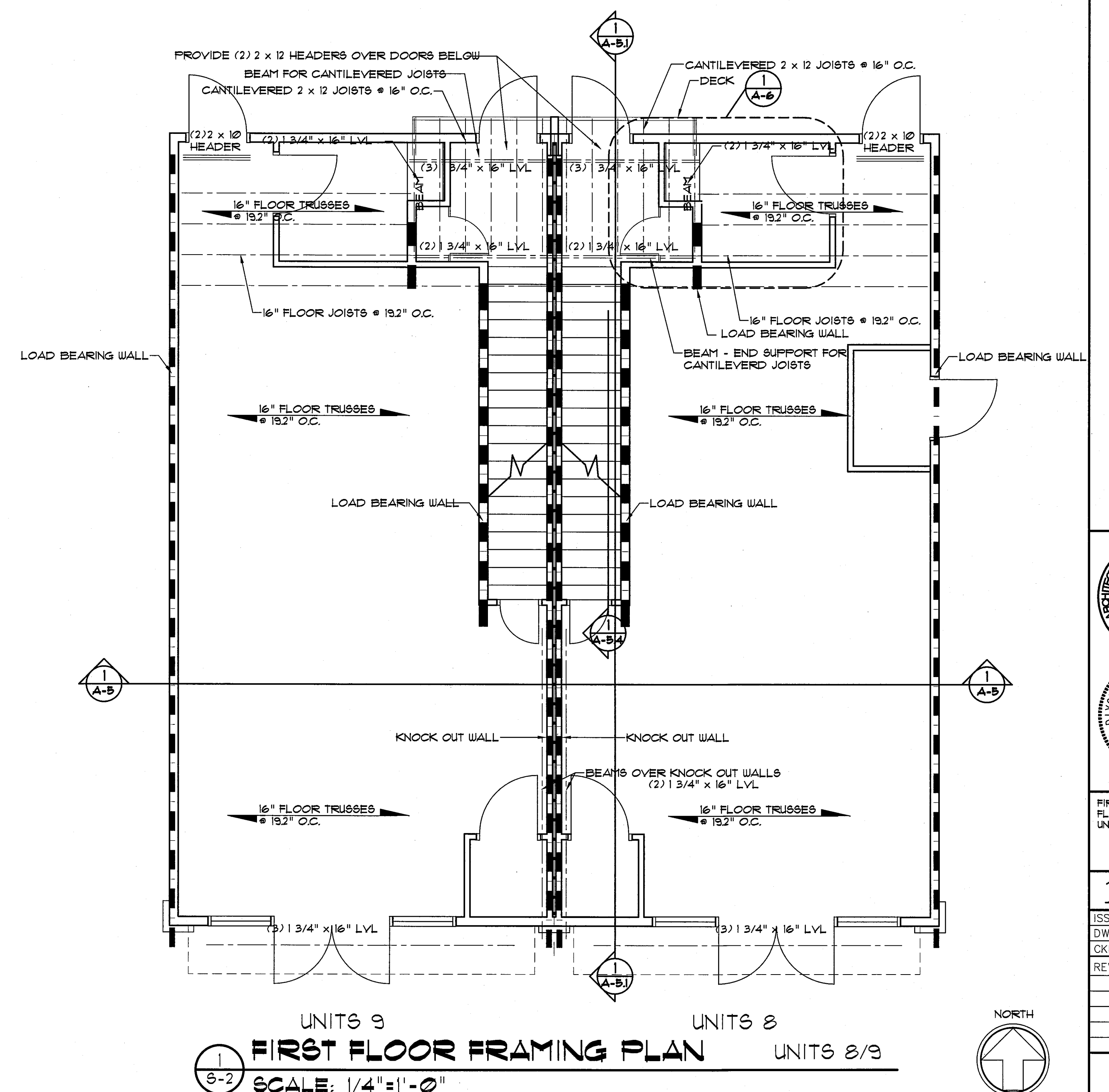
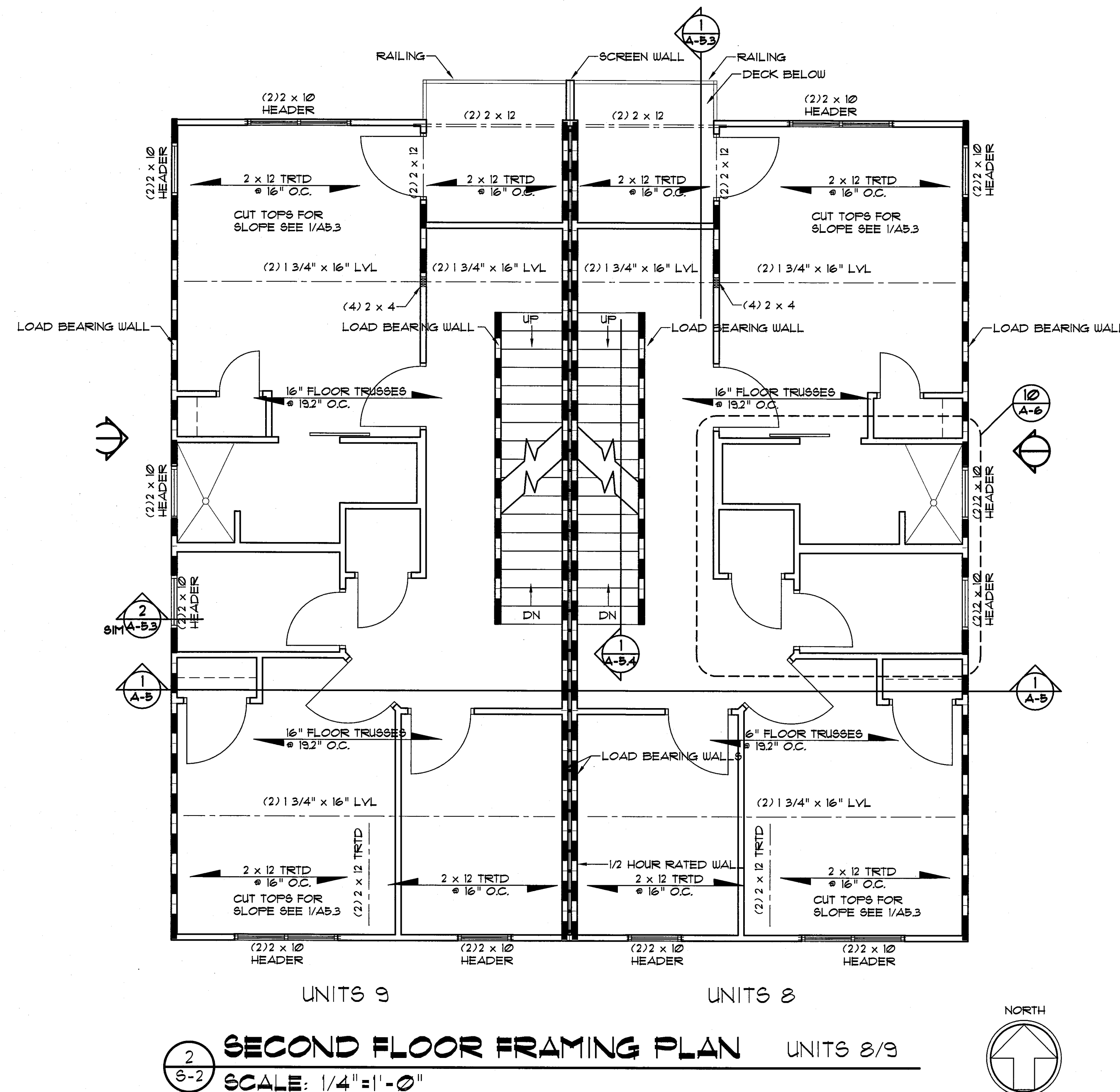
1
S-1
EXTERIOR FOUNDATION DETAIL
SCALE: 3/4" = 1'-0"

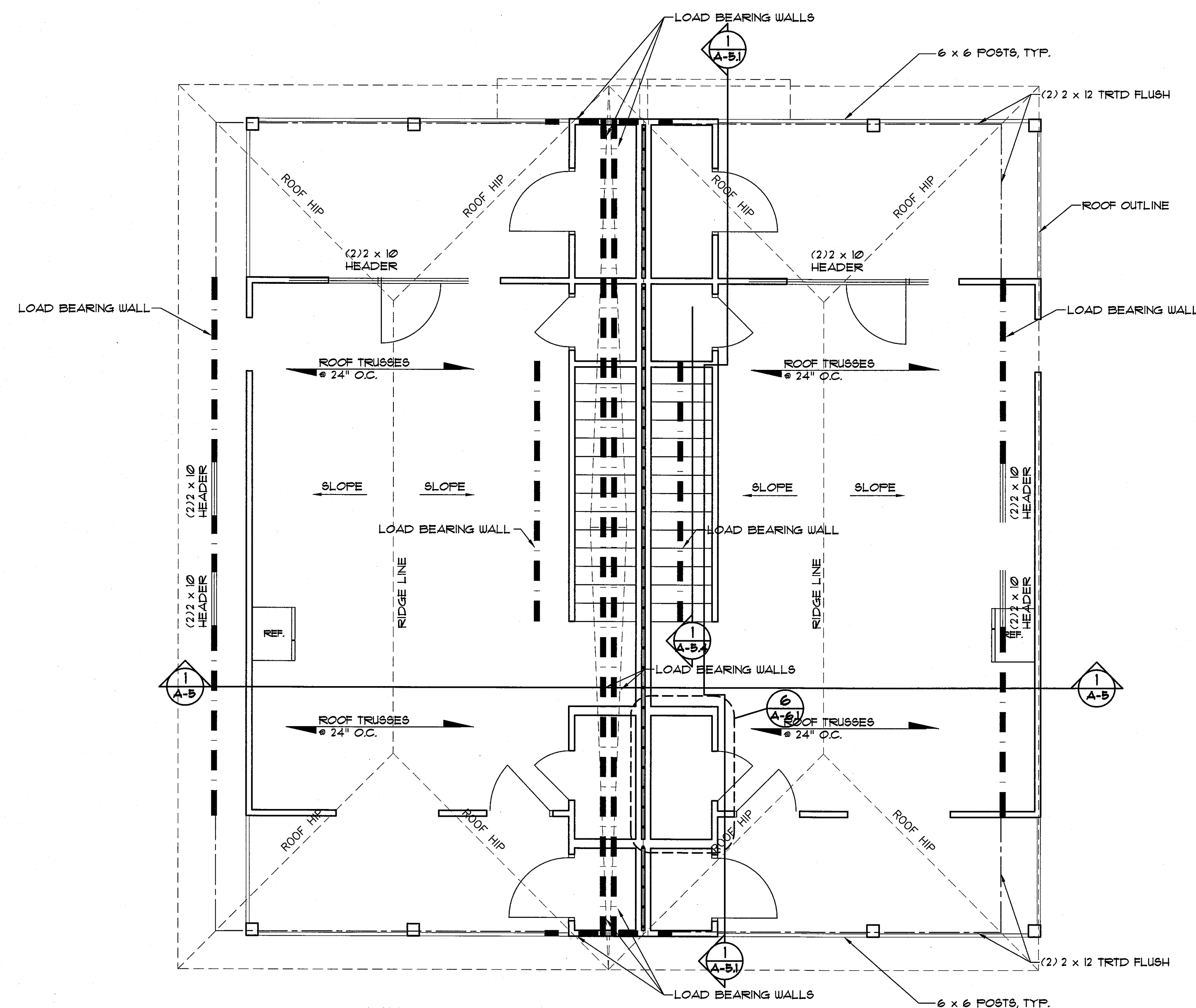


2
S-1
INTERIOR FOUNDATION DETAIL
SCALE: 3/4" = 1'-0"



NOTE:
ALL EXTERIOR FASTENERS TO BE STAINLESS STEEL
TRUSS ENGR. SHALL INSPECT ALL TRUSS FRAMING TO
COMPLY W/ MANUF. INSTRUCTIONS





UNIT 9
UNIT 8
UNITS 8/9
1 **ROOF FRAMING PLAN**
SCALE: 1/4" = 1'-0"

DIVISION 15A – PLUMBING

- 1.1 DESCRIPTION OF THE WORK
- A. Work under this section includes, but is not necessarily limited to, furnishing and installing the following:
1. Plumbing fixtures, water heaters, and any other equipment necessary.
 2. Cold and hot water piping and insulation.
 3. DWV piping.
 4. Connection of all equipment; drain, vent, water.
- B. All work under this contract shall be installed in compliance with the latest edition of the following codes and standards insofar as they apply.
1. The National Electrical Code.
 2. 2018 N.C. Building Code: Plumbing, and all applicable category codes.
 3. American Society of Sanitary Engineering Standard 1010.
 4. All local codes and ordinances.
- C. These codes are minimum standards. If codes require a more stringent method of construction than the specifications require, the codes shall govern.
- D. The Plumbing Contractor shall be licensed in the State of North Carolina and have all local licenses required for the work.
- E. Obtain all permits, licenses, inspections, etc., required for the work, and pay for the same.
- 1.2 INTENT
- A. The intent of these specifications and accompanying drawings is to convey as reasonably as possible the requirements for a complete job ready for the building to operate. The Plumbing Contractor shall take this into consideration and include in his base bid allowance for contingencies as will allow him to provide minor pieces of equipment and labor not specifically indicated but required for the job to operate properly, at no additional cost to the Owner.
- 1.3 COORDINATION
- A. Coordinate work with other contractors. Notify Architect of apparent conflicts early to expedite construction. If structural damage appears imminent, stop work and notify Architect for a decision before resuming operations.
- B. Locations shown are approximate. The Plumbing Contractor shall refer to the architectural drawings for placement of equipment, fixtures, etc. Where locations are not clear, the Contractor shall obtain the exact locations from the Architect.
- C. Coordinate all exterior piping connections w/Architect, site contractor/plans. Verify manhole elevations and provide backwater valves as required if flood level rims are below next upstream manhole cover elevation. Fixtures with flood level rims above upstream manhole shall not discharge thru bw valve. Notify engineer of backwater valve requirement, any issue prior to bid.
- 1.4 SHOP DRAWINGS
- A. Shop drawings shall be submitted for plumbing fixtures and for pipe. These may consist of the manufacturer's standard catalog or tear sheets and shall have the exact items being offered clearly identified.
- PART 3 – PRODUCTS
- 2.1 FIXTURES
- A. Each fixture shall be properly supported from the building structure as required to the end effect that all fixtures and accessories will be held rigidly in place. Water pipes supplying the fixtures must also be held rigidly in place.
- B. Provide loose key angle stops and chrome plated supply pipe water supplies to fixtures.
- C. All exposed piping traps and accessories for fixtures shall be chrome plated. Provide chrome plated escutcheon plates where pipes enter walls.
- D. Provide shutoff valves for all sinks, water heaters, toilets, washing machines, refrigerator icemaker, exterior hose bibbs and all other plumbing fixtures.
- E. Provide trap primers for all floor drains in areas not served by hose bibbs.

- 2.2 PIPING
- A. Drain-Waste-Vent: All DWV piping shall be Schedule 40 PVC-DWV u.o.n., with the following exceptions: Use cast iron piping in all return air plenums, penetrations of rated walls/floors/ceilings, and in areas/walls adjacent to cooking equipment exhaust hoods. Review Arch. and Mech. drawings. ABS or cast iron piping shall be used for drainage of effluent with a temperature greater than 140 deg. F for a minimum distance of 10'-0".
- B. Hot and cold water piping above grade: Type "L" copper w/solder joints (ASTM-B88), hard drawn with wrought copper fittings (ANSI B16.22). PEX piping with copper fittings may be used with owner/tenant approval and as allowed per code. Copper piping shall be used in areas/walls adjacent to cooking equipment exhaust hoods. Review Arch. and Mech. drawings.
- C. Cold water piping below grade: Type "K" copper (ASTM-B8A) soft drawn.
- D. Hangers: Use pipe hangers where required on 8-foot centers with saddles to avoid crushing insulation.
- E. Solder: 95/5. Lead free.
- F. Unions: Provide unions where indicated on drawings, in long runs of piping (except drainage) and at equipment to provide convenient disassembly. Provide dielectric unions when connecting copper tubing to equipment and piping made of ferrous materials.
- 2.3 CLEANOUTS
- A. Hex plugs in rough areas: Recessed plugs with cover plates in exposed locations.
- 2.4 SHOCK ARRESTERS
- A. Provide shock arresters as required by codes, manufacturer's recommendations and accepted industry standards for quality construction. Provide for all quick closing valves.

PART 3 – EXECUTION

3.1 CONNECTIONS

- A. This contract includes complete connection of cold water, hot water, drainage, and vent piping as required. All fittings, valves, accessories, cutoffs, drains, etc., required to complete such connections shall be included.
- B. The connection to water closets shall be made watertight with gasket and wax ring. Floor flanges shall be caulked into position. Plastic caps shall be provided on the tie down bolts, and shall be secured in place by screwing down on threaded brass washers.
- C. Where water pipes connect to exposed chrome plated trim, use proper chrome plated escutcheons.

3.2 SERVICE ACCESS

- A. All valves and accessories shall be insulated so that they can be properly serviced. In no case shall the Plumbing Contractor install equipment or other components in situations that do not meet code requirements or manufacturer's requirements. Provide access doors as required to access valves, etc.

3.3 ROUTING OF PIPING

- A. Coordinate routing of piping with others, line up work true to or at right angle to adjacent surfaces and in a workmanlike manner. Support all interior piping from building structure by means of hanger or inserts to maintain pitch of lines, to prevent vibration, and to secure piping place.

- B. Space pipe hangers 8'-0" on center for one inch and smaller pipe, 4'-0" on center for 1-1/4 inch and larger pipe. Provide expansion loops as required.
- C. Pipe hangers for insulated lines shall have suitable saddles to protect insulation.
- 3.4 INSULATION
- A. All H/W and C/W piping shall be insulated with a min. of 1" inch elastomeric insulation (R-6.5 min.) in unconditioned areas. See NCSCB-Plumbing Sect. 305 for all protection requirements. All H/W piping of circulating systems shall be insulated with 1" insulation per Sect. C404.4 of the NCSCB 2018 Energy Conservation Code.
- B. Provide pre-fabricated insulation kits for all sink and lavatory exposed drain and supply piping.
- 3.5 INSPECTIONS AND TESTS
- A. Before being concealed, all water, soil and vent piping shall be tested to determine if they are water- and air-tight.
- B. Prior to placing into service, entire system shall be tested for leaks in strict accordance with state and local codes.
- 3.6 STERILIZATION OF PIPING
- A. Sterilize the new water piping thoroughly with a solution containing not less than 50 parts per million of available chlorine, using liquid chlorine, or sodium hydrochloride solution, introduced into the system in an approved manner. The sterilizing solution shall remain in the system in an approved manner. The sterilizing solution shall remain in the system for a period of 24 hours. After sterilization, flush the solution from the system with clean water until the residual chlorine content is not greater than 0.2 parts per million, unless otherwise directed.

3.7 SERVICE PRESSURE

- A. Provide approved water-pressure reducing valve (PRV) if service pressure exceeds 80 psi to reduce pressure to 80 psi static or less and as required per NCSCB-Plumbing Sect. 604.6.

3.8 DRAINDOWN

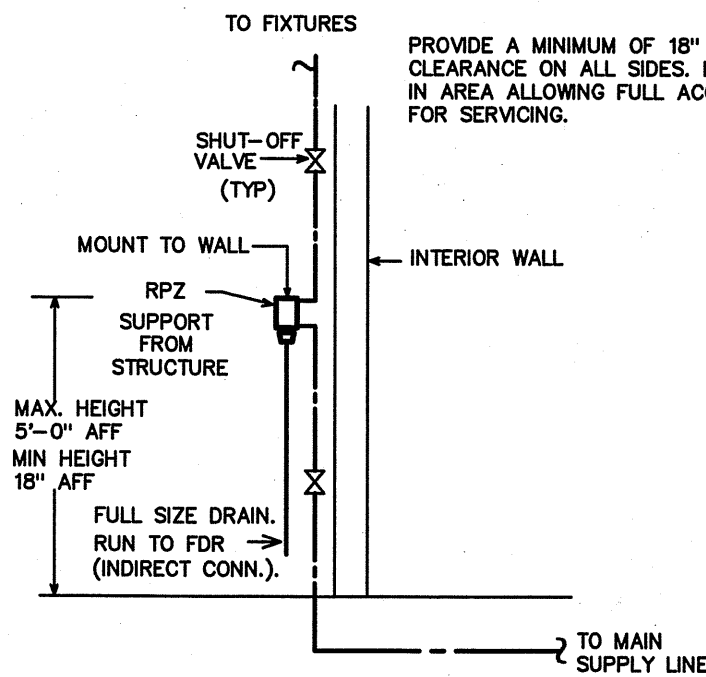
- A. Contractor to provide for complete plumbing system drain down.
- 3.9 CLEAN UP
- A. During construction, keep the site clear of debris and upon completion, and before final inspection, clean up the premises to remove all evidence of his work. In addition, upon completion of construction, clean, wash, and/or polish all fixtures, equipment and exposed material and leave them bright and clean.

3.10 GUARANTEES

- A. Guarantee all materials and labor included in the plumbing work for a period of one year from date of final acceptance by the Owner.
- B. Any defects in the system which become evident during the guarantee period shall be corrected without cost to the Owner. This shall include the replacing of defective materials where required, and the repair of damage caused by leaking pipes, etc., and damage to building surfaces caused in making repairs.

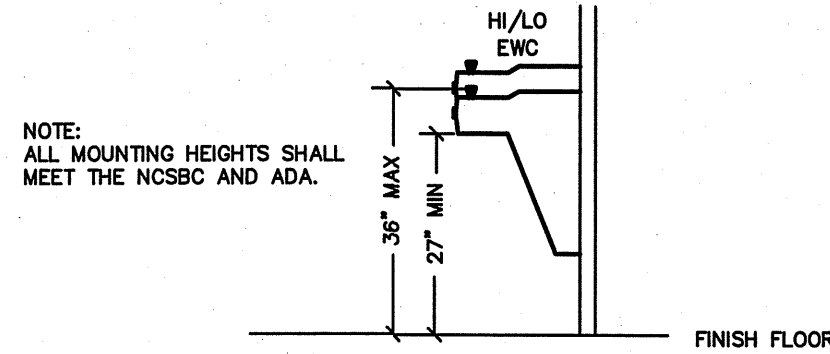
GENERAL NOTES – PLUMBING

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE CODE, ALL LOCAL AND OTHER APPLICABLE CODES.
2. ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMEN. THE PLUMBING CONTRACTOR (PC) SHALL COORDINATE ALL OF HIS WORK WITH THE GENERAL CONTRACTOR (GC).
3. THE PLUMBING PLANS AND SPECIFICATIONS SHALL BE THOROUGHLY REVIEWED PRIOR TO PURCHASING MATERIALS AND INSTALLATION AND ALL DISCREPANCIES OR INTERFERENCES BROUGHT TO THE ENGINEERS ATTENTION.
4. THESE PLANS ARE DIAGRAMMATIC AND MAY NOT SHOW MINOR DETAILS AND LOCATIONS. THE PC SHALL PROVIDE ALL MISC. ITEMS NEEDED FOR A COMPLETE SYSTEM REGARDLESS IF NOTED ON THE DRAWINGS OR NOT. FOR DIMENSIONS REFER TO ARCHITECTURAL PLANS.
5. THE GC SHALL PROVIDE ALL WALL, FLOOR AND ROOF OPENINGS OF THE SIZE AND LOCATION REQUIRED BY THE PC AND SHALL BE RESPONSIBLE FOR PAINTING AND FLOOR FINISHES. THE PC SHALL PROPERLY SEAL ALL PENETRATIONS AND PROVIDE ESCUTCHEON PLATES AT ALL FINISHED LOCATIONS.
6. ALL NEW WATER PIPING SHALL BE INSTALLED TIGHT TO STRUCTURE, ADEQUATELY SUPPORTED AND PROTECTED AND PROPERLY PITCHED TO ALLOW TOTAL DRAINAGE.
7. ALL WATER PIPING SHALL BE HYDROSTATICALLY TESTED FOR 2 – HOURS AT 150 PSIG BEFORE COVERING AND ALL LEAKS CORRECTED. THE ENTIRE WATER DISTRIBUTION SYSTEM SHALL BE DISINFECTED PRIOR TO PLACING IN SERVICE.
8. PROVIDE MIN. 18" SHOCK ABSORBERS WITH STOPS ON ALL HOT AND COLD WATER FIXTURE RUNS AS REQUIRED BY CODE.
9. VENT LINES SHALL SLOPE UP TO ALL STACKS AND TERMINATE A MIN. OF 12" ABOVE ROOF LINE.
10. PROVIDE CUT SHEETS ON ALL PLUMBING FIXTURES FOR ARCHITECT AND OWNER APPROVAL PRIOR TO ORDERING ANY FIXTURES.
11. PROVIDE HOT WATER TO FIXTURES AT 110 DEGREES F. PROVIDE THERMOSTATIC MIXING VALVE (WATTS SERIES LFMV OR EQUAL) IF/WHERE REQUIRED.
12. PROVIDE CLEANOUTS AS REQUIRED BY CODE. NOT MORE THAN 100 FEET FOR 4" DRAIN.

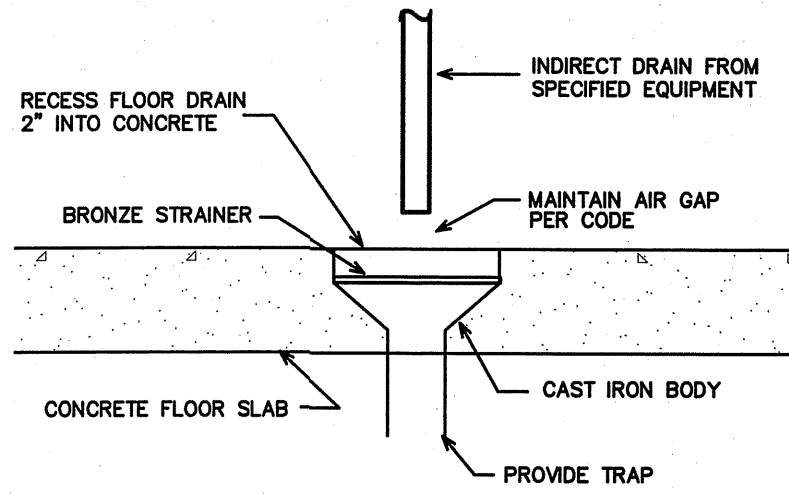


2 RPZ MOUNTING DETAIL
SCALE: NTS

LOAD SUMMARY – PLUMBING			
UNIT, TENANT	WASTE DEMAND (FU)	WATER DEMAND (FU)	WATER DEMAND (GPM)
1 THRU 11, MERCANTILE (TYP)	9.0	7.5	12.3
1/2/3, 1ST AND 2ND LIVING (TYP)	21.0	15.0	17.5
4/5, 1ST AND 2ND LIVING (TYP)	21.0	15.0	17.5
6/7, 1ST AND 2ND LIVING (TYP)	23.0	15.7	17.8
8/9, 1ST AND 2ND LIVING (TYP)	21.0	15.0	17.5
10/11, 1ST AND 2ND LIVING (TYP)	21.0	15.0	17.5



1 EWC DETAIL
SCALE: NTS



3 FDR DETAIL
SCALE: NTS

SYMBOL LEGEND – PLUMBING

SYMBOL	DESCRIPTION (U.O.N.)
— WASTE PIPING (W)	WASTE PIPING (W)
--- VENT PIPING (V)	VENT PIPING (V)
--- COLD WATER PIPING (CW)	COLD WATER PIPING (CW)
--- HOT WATER PIPING (HW)	HOT WATER PIPING (HW)
--- HW RETURN PIPING (HWR)	HW RETURN PIPING (HWR)
○ COFF	CLEANOUT FINISH FLOOR
⊥ WCO/HCO	WALL/HORIZONTAL CLEANOUT
⊥ COFG	CLEANOUT FINISH GRADE—PROVIDE FLUSH CONCRETE COLLAR AND BRONZE COVER
⊕ DIELECTRIC UNION	DIELECTRIC UNION
⊖ SHUT-OFF VALVE	SHUT-OFF VALVE
⊗ CHECK VALVE	CHECK VALVE
⊙ BALANCING VALVE	BALANCING VALVE
⊙ CIRCULATION PUMP	CIRCULATION PUMP
⊙ VENT THRU ROOF (VTR)	VENT THRU ROOF (VTR)
⊕ FREEZE PROOF, HOSE BIBB (FPHB/HB)	FREEZE PROOF, HOSE BIBB (FPHB/HB)
A.A.V.	AIR ADMITTANCE VALVE
A.F.F.	ABOVE FINISHED FLOOR
U.O.N.	UNLESS OTHERWISE NOTED
---	1 HOUR FIRE BARRIER

Coastal Architecture PLLC

Architectural Design
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VILLAGE WEST
PHASE 1
EMERALD ISLE, NORTH CAROLINA

MERCANTILE UNIT (TYP)
FIXTURE SCHEDULE – PLUMBING *

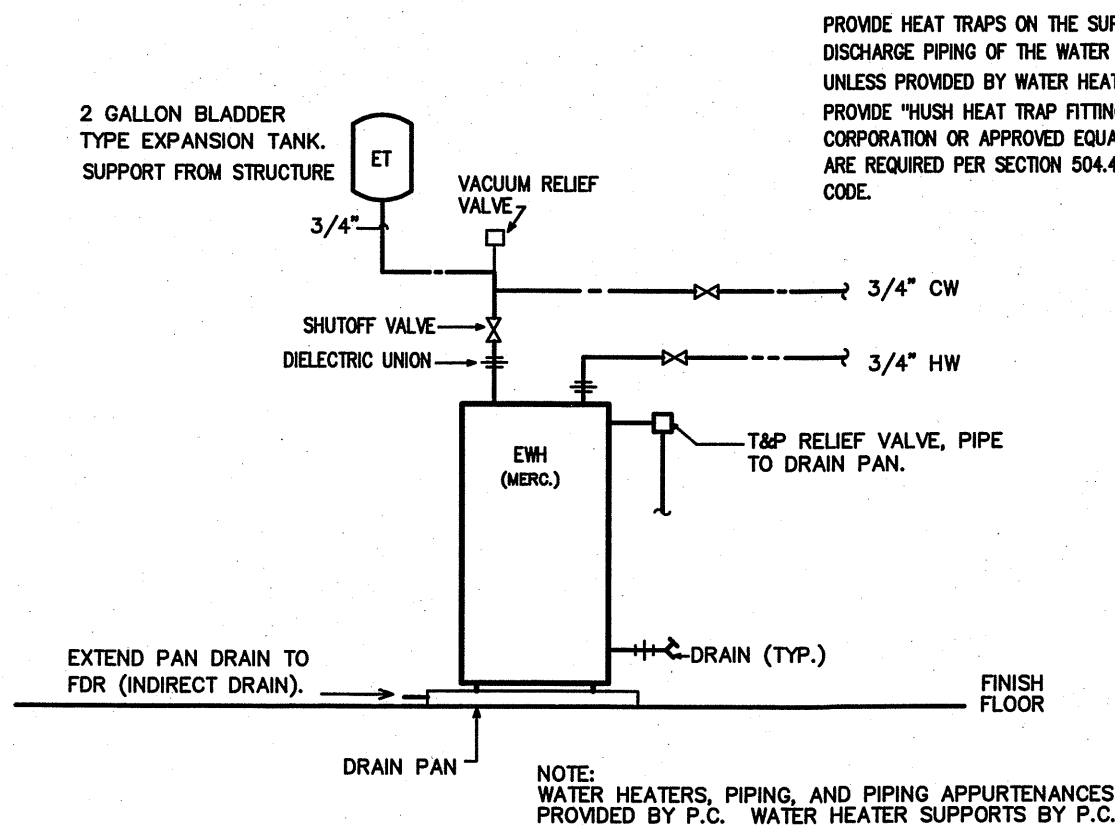
- ET * EXPANSION TANK (SAME FOR EACH EWH)
AMTROL MODEL ST-5, 2.0 GALLON, STEEL CONSTRUCTION, NON-ASME CODE RATED.
- EWC * HIGH/LOW ELECTRIC WATER COOLER
HALSEY TAYLOR DUAL LEVEL ELECTRIC WATER COOLER, MODEL # HACFBSBL-Q
ADA COMPLIANT, PIPE TO SINGLE DRAIN AND SUPPLY LINE.
VERIFY MODEL- H2O SIDE WITH TENANT, ARCH.
- EWH * ELECTRIC WATER HEATER
A.O. SMITH MODEL EHC-6, 6 GALLON, 1,650 WATTS, 120V, 3/4" INLET AND OUTLET. PROVIDE DRAIN PAN, EXPANSION TANK AND PRESSURE RELIEF VALVE.
- FDR * RECESSED FLOOR DRAIN
ZURN MODEL Z415 WITH HEEL-PROOF TYPE B STRAINER, CAST IRON WITH NICKEL BRONZE TOP, 5" DRAIN WITH 3" CONNECTION. PROVIDE TRAP PRIMER CONNECTION IF REQUIRED. RECESS 2" INTO FLOOR SLAB WHERE REQUIRED.
- FPHB * FREEZE PROOF HOSE BIBB
WOODFORD MODEL #19, FREEZE PROOF HOSE BIBB WITH BACKFLOW PREVENTER. COORDINATE MOUNTING W/TENANT. PROVIDE TEE KEY OR LOOK SL-17 IF REQUIRED. VERIFY STEM LENGTH PER WALL THICKNESS.
- L1 * LAVATORY (WALL MOUNT)
KOHLER CHESAPEAKE LAVATORY, K-1728, VITREOUS CHINA, 4" CENTERS, ADA COMPLIANT. PROVIDE DELTA MODEL 523LF-HGMDF FAUCET, 0.5 GPM MAX WITH GRID STRAINER. PROVIDE P-TRAP AND SHUT-OFF VALVES.
- RPZ * REDUCED PRESSURE BACKFLOW PREVENTER
WATTS MODEL #LF008MOT, REDUCED PRESSURE BACKFLOW PREVENTER, 'LEAD FREE' CONSTRUCTION. MATCH INCOMING SERVICE LINE SIZE (3/4" FOR MERC.).
- WC * WATER CLOSET (ADA FLUSH TANK)
KOHLER HIGHLINE WATER CLOSET, K-3979, ADA COMPLIANT 1.6 GPF. PROVIDE PROPER OPEN FRONT ADA SEAT, K-7837 SUPPLY AND DRAIN, WAX SEAL, CLOSET BOLT KIT. PROVIDE MODEL WITH FLUSH CONTROL ON SIDE OPPOSITE GRAB BAR.

* OR APPROVED EQUAL. SUBMIT ALL ITEMS FOR APPROVAL BYTENANT AND ARCHITECT PRIOR TO ORDERING.
ALL OTHER PLUMBING FIXTURES SHOWN ARE PROVIDED BY THE OWNER AND INSTALLED BY THE PLUMBING CONTRACTOR. SEE PLANS FOR NUMBER AND LOCATION. COORDINATE ALL REQUIREMENTS WITH EQUIPMENT SERVED.

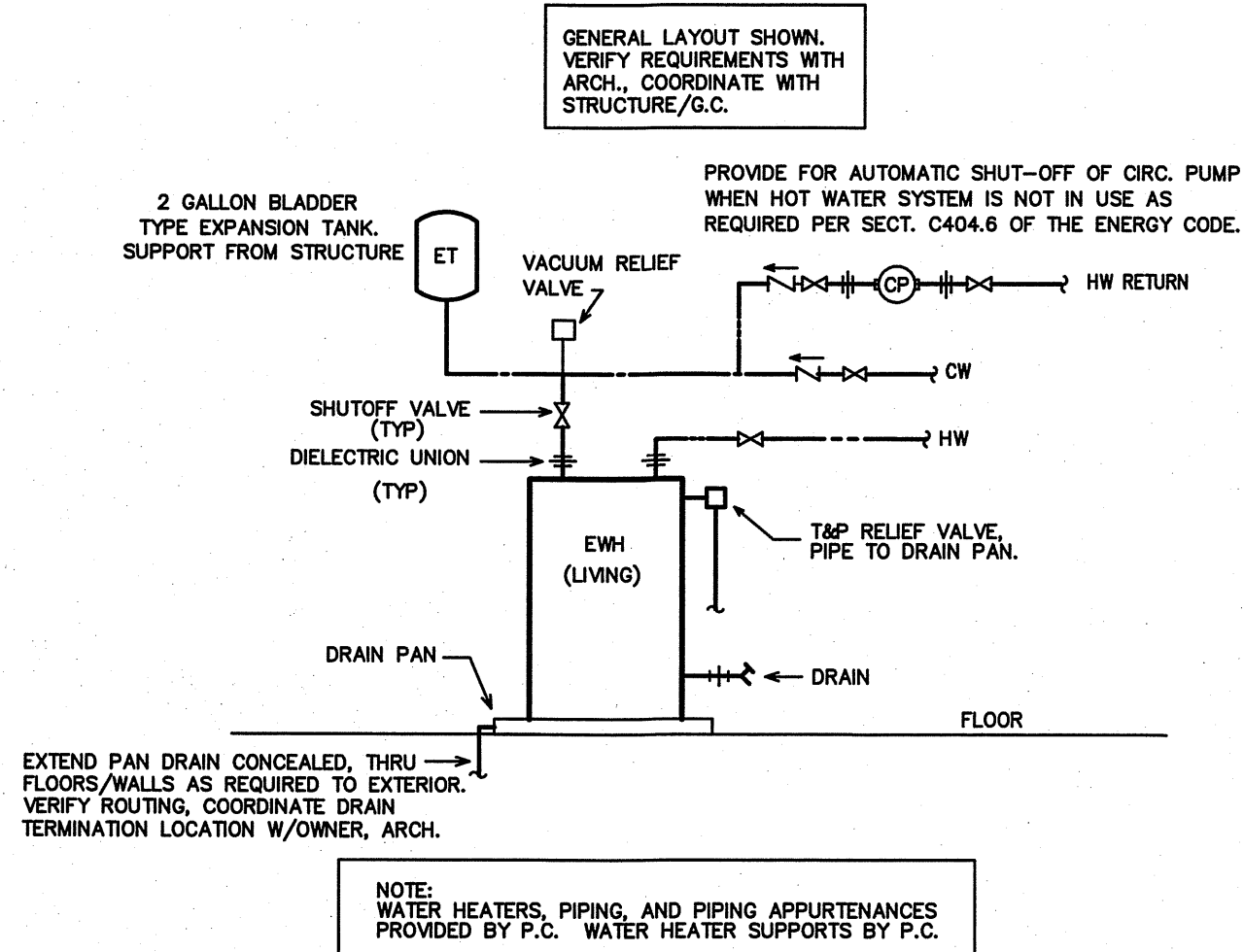
FIRST/SECOND LIVING UNIT (TYP)
FIXTURE SCHEDULE – PLUMBING *

- CP * CIRCULATING PUMP
TACO MODEL 110, 115 VOLT, 1/12 HP. SECURELY SUPPORT FROM STRUCTURE. PROVIDE AQUASTAT, THERM, CHECK VALVES AS REQUIRED.
- ET * EXPANSION TANK (TYP FOR EACH EWH)
AMTROL MODEL ST-5, 2.0 GALLON, STEEL CONSTRUCTION, NON-ASME CODE RATED.
- EWH * ELECTRIC WATER HEATER
A.O. SMITH MODEL DEN-52, 50 GALLON, 4,500 WATT, 208 V, 1 PH. 26 GPH RECOVERY AT 70 DEGREE (F) TEMP. RISE. 3/4" INLET/OUTLET. PROVIDE DRAIN PAN, EXPANSION TANK AND PRESSURE RELIEF VALVE.
- L1 * LAVATORY (COUNTERTOP)
COORDINATE EXACT UNIT WITH OWNER AND GENERAL CONTRACTOR. COORDINATE SIZE WITH CABINETS PRIOR TO ORDERING. PROVIDE DWV, SUPPLY LINES/SHUT-OFF VALVES AS REQUIRED.
- SI * DOUBLE BASIN KITCHEN SINK
COORDINATE EXACT UNIT WITH OWNER AND GENERAL CONTRACTOR. COORDINATE SIZE WITH CABINETS PRIOR TO ORDERING. PROVIDE DWV, SUPPLY LINES/SHUT-OFF VALVES AS REQUIRED.
- SHR * STALL, SHOWERHEAD/FAUCET
COORDINATE UNIT AND LOCATION WITH OWNER AND GENERAL CONTRACTOR. PROVIDE DWV/SUPPLY. ROUTE SUPPLY LINES FOR UNIT HANDING AS REQUIRED.
- TUB * TUB, SHOWERHEAD/FAUCET
COORDINATE UNIT AND LOCATION WITH OWNER AND GENERAL CONTRACTOR. PROVIDE DWV/SUPPLY. ROUTE SUPPLY LINES FOR UNIT HANDING AS REQUIRED.
- VB * ICE MAKER VALVE BOX
OATEY VALVE BOX WITH 3/8" BRONZE SHUT-OFF VALVE. FLUSH TO WALL.
- WB * WASHING MACHINE WALL BOX
SUPPLY AND DRAIN FIXTURE. POLYSTYRENE BOX WITH 2" DRAIN, 1/4 TURN BRASS BALL VALVES. OATEY OR APPROVED EQUAL.
- WC * WATER CLOSET (FLUSH TANK)
COORDINATE EXACT UNIT WITH OWNER AND GENERAL CONTRACTOR. PROVIDE DWV, SUPPLY LINES/SHUT-OFF VALVES AS REQUIRED.

* OR APPROVED EQUAL. SUBMIT ALL ITEMS FOR APPROVAL BYTENANT AND ARCHITECT PRIOR TO ORDERING.
ALL OTHER PLUMBING FIXTURES SHOWN ARE PROVIDED BY THE OWNER AND INSTALLED BY THE PLUMBING CONTRACTOR. SEE PLANS FOR NUMBER AND LOCATION. COORDINATE ALL REQUIREMENTS WITH EQUIPMENT SERVED.



4 MERCANTILE UNIT
EWH DETAIL (TYP)
SCALE: NTS

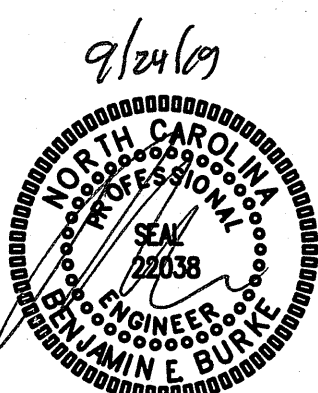


5 1ST/2ND LIVING UNIT
EWH DETAIL (TYP)
SCALE: NTS

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PLUMBING SPECIFICATIONS

18030

ISSUED: 09/11/19
DWG BY: DS
CKD BY: BEB

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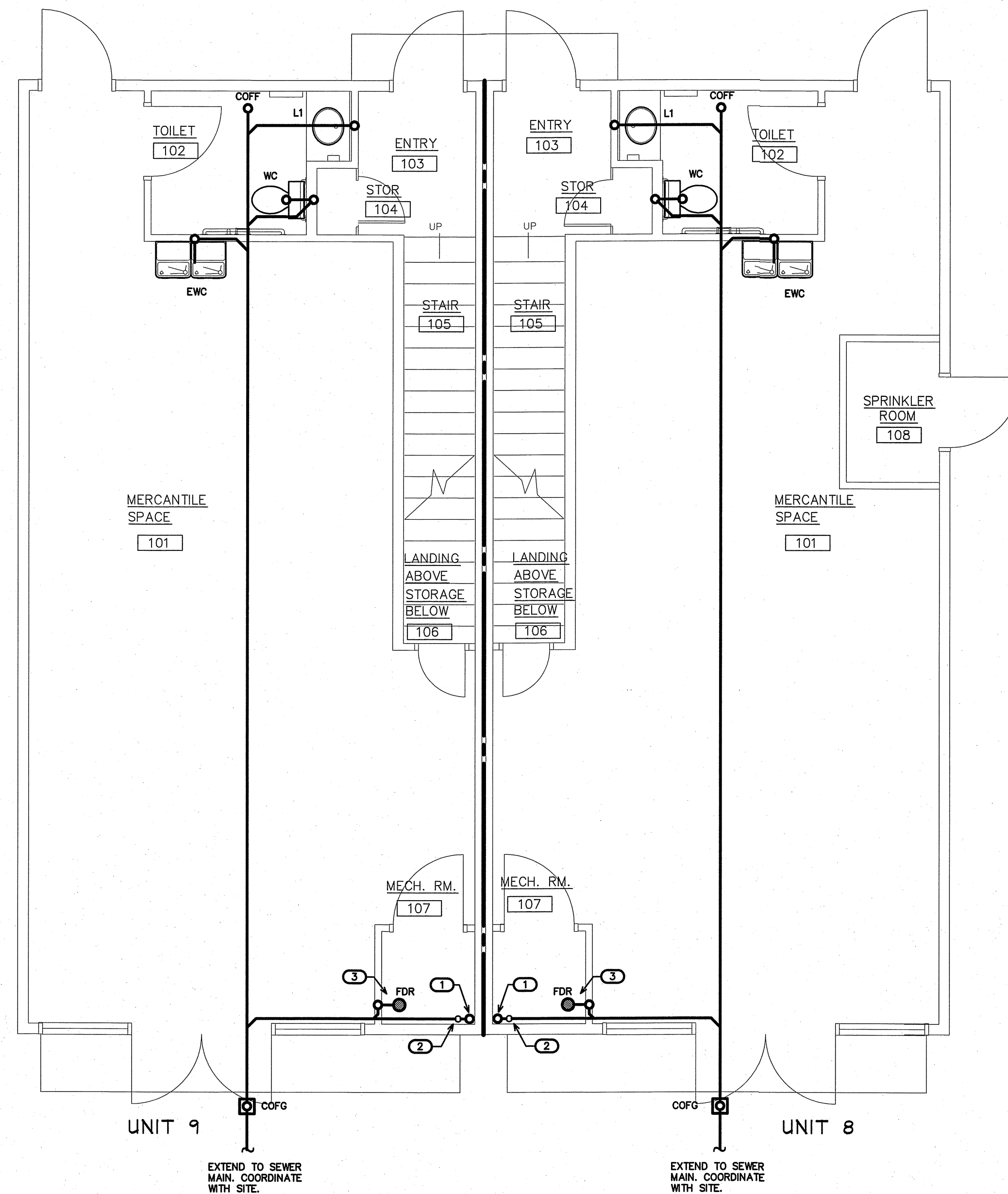
P-1

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NOTE:
COORDINATE RPZ, EWH, FDR
LOCATIONS WITH ALL TRADES.
(TYP FOR ALL UNITS)

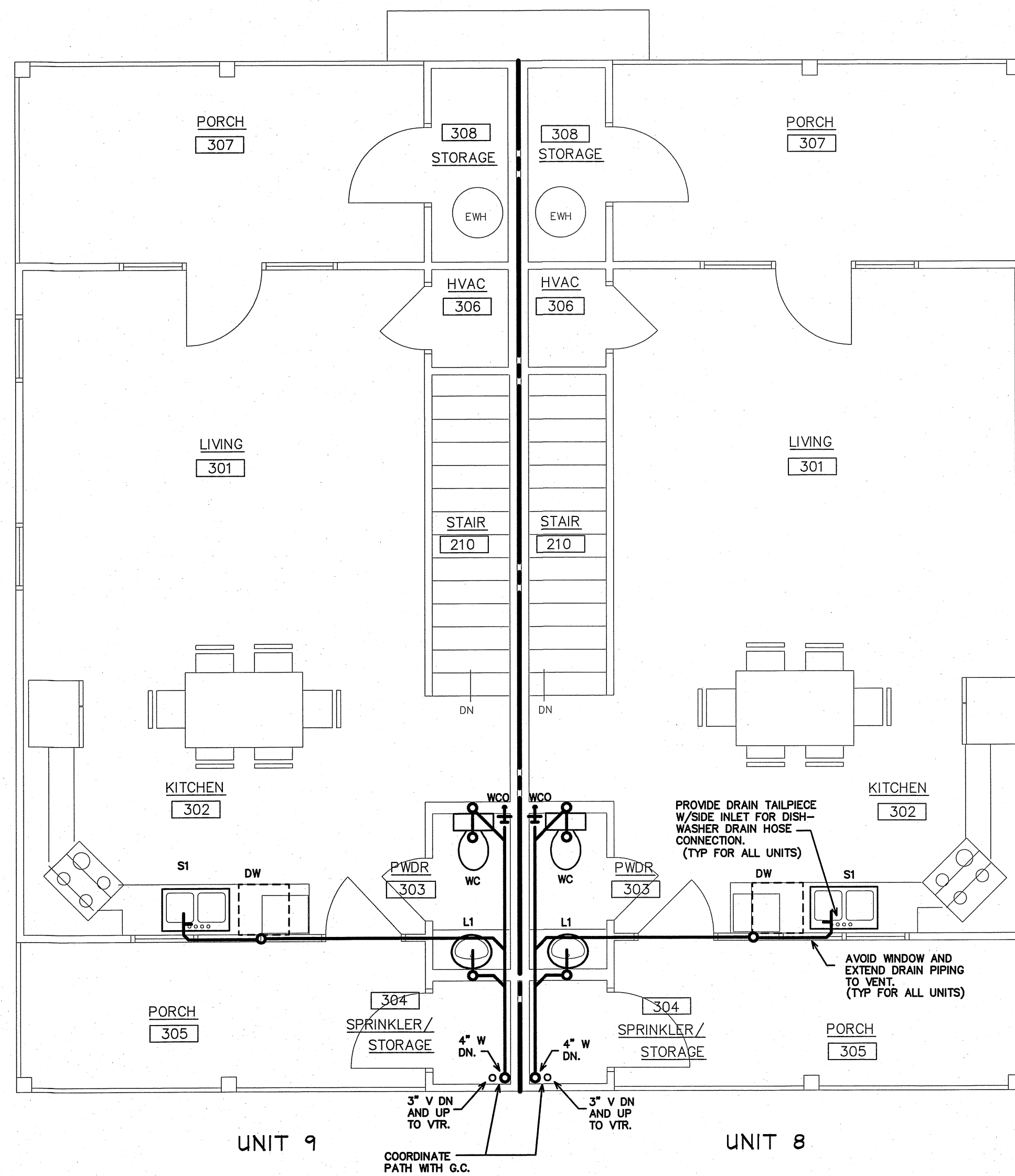
KEY NOTES FOR SHEET P-2

- 4" WASTE STACK (W) UP. PROVIDE
WCO (NOT SHOWN) AT BASE OF
STACK. A.F.F. VERIFY LOCATION.
WASTE STACK SHALL BE CAST IRON.
- 3" VENT STACK (V) UP. CONNECT
TO SANITARY WASTE STACK AS
REQUIRED (VERIFY BELOW FLOOR
OR BELOW UPPER LEVEL FLOOR-
AT OR BELOW LAST HORIZONTAL
BRANCH CONNECTION FROM UPPER
LEVEL). BELOW FLOOR CONNECTION
TO BUILDING DRAIN SHOWN. VERIFY
ACTUAL LOCATION AS NOTED.
- COORDINATE LOCATION OF FDR WITH
RPZ/EWH (NOT SHOWN) PLACEMENT.

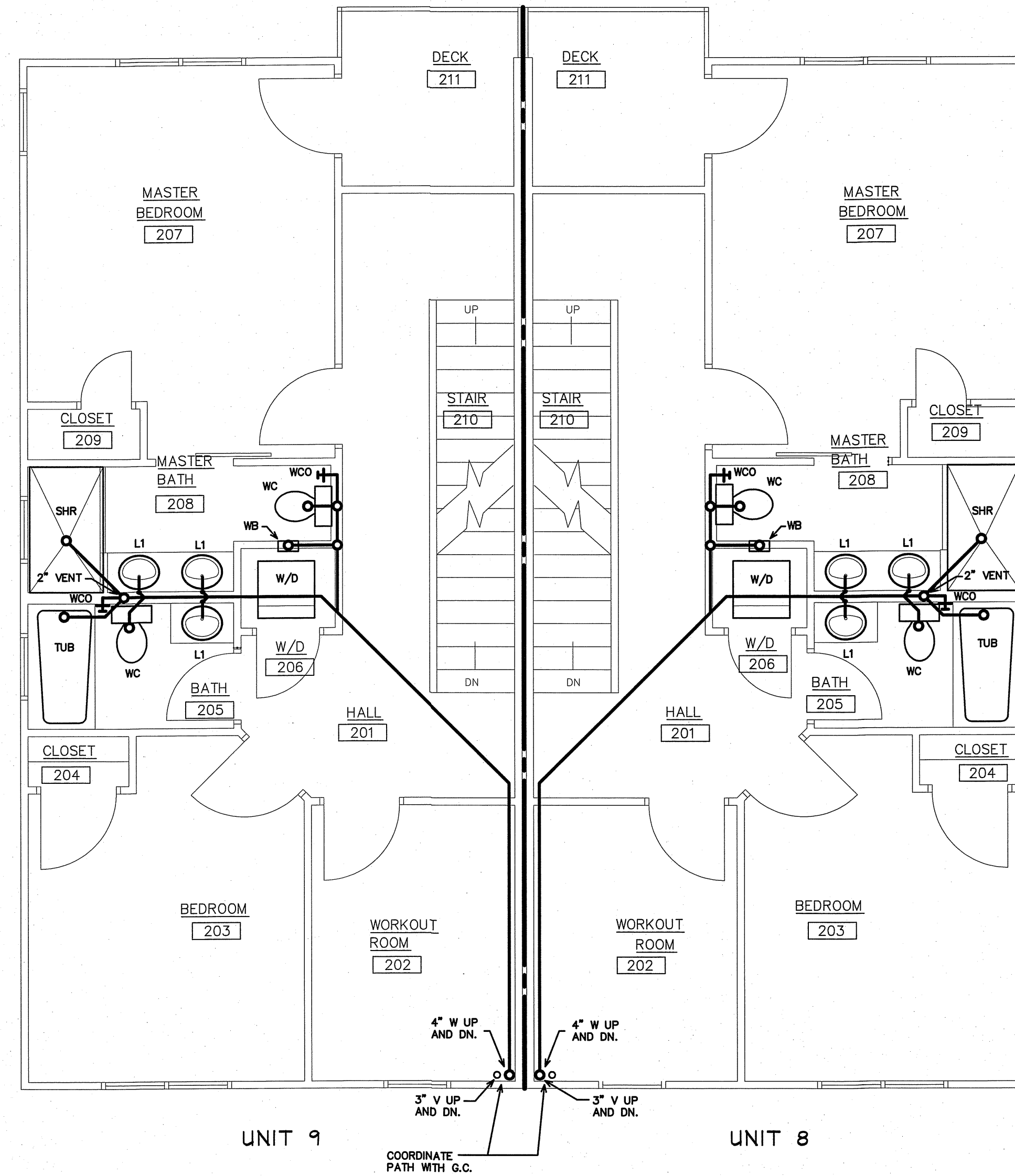


MERCANTILE DWV PLAN UNITS 8/9
SCALE: 1/4"=1'-0"

**VILLAGE WEST
UNITS 8-9**
EMERALD ISLE, NORTH CAROLINA



2 SECOND LIVING DWV PLAN
SCALE: 1/4"=1'-0"
UNITS 8/9



1 FIRST LIVING DWV PLAN
SCALE: 1/4"=1'-0"
UNITS 8/9

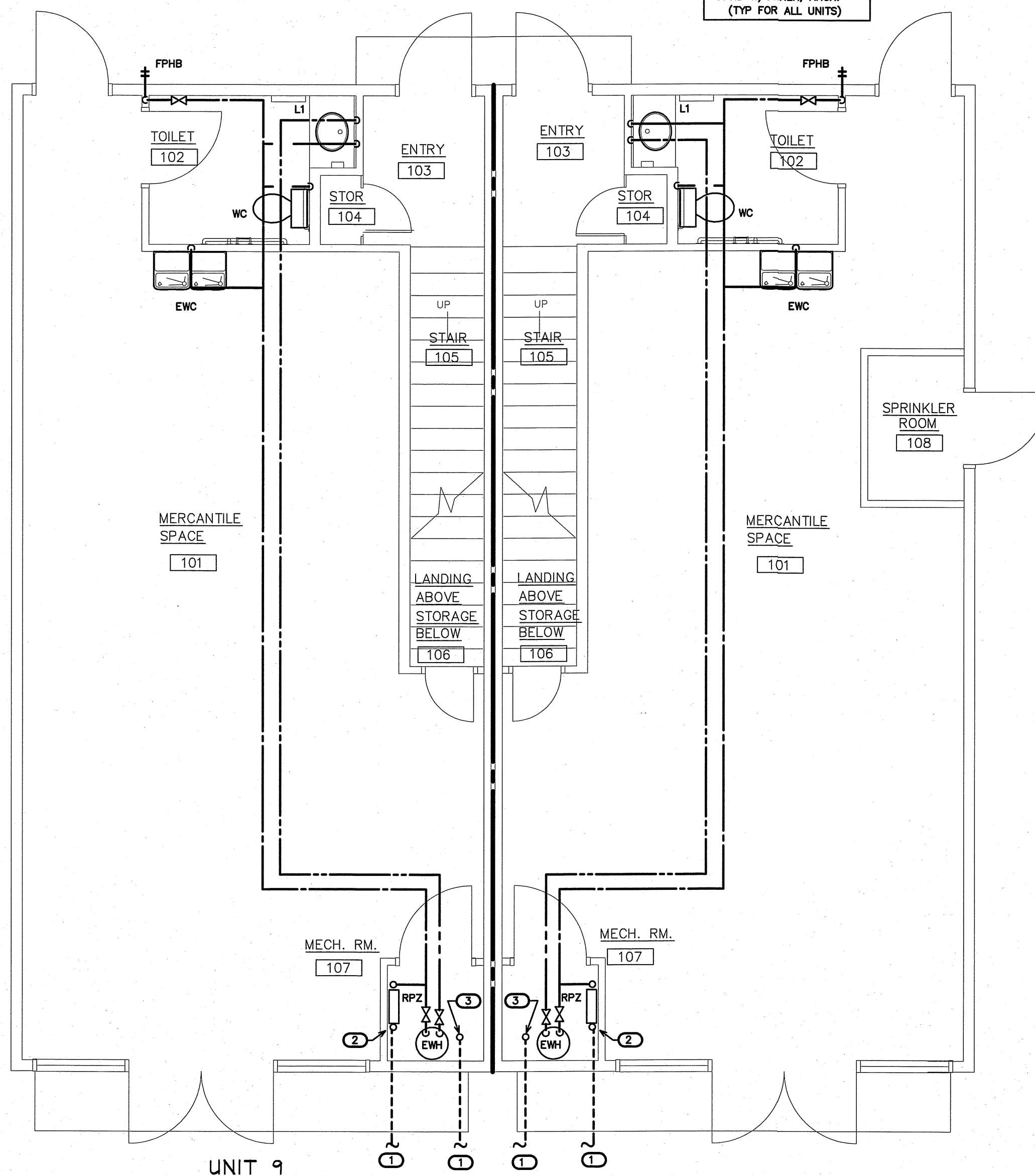
NOTE:
RPZ, EHW, FDR (IF) SHOWN
OUT OF POSITION FOR CLARITY.
COORDINATE WITH MECHANICAL
DRAWINGS/HVAC CONTRACTOR.
ALL TRADES FOR LOCATIONS.
(TYP FOR ALL UNITS)

NOTE:
PROPERLY INSULATE ALL SUPPLY
PIPING IN UNCONDITIONED AREAS.
PROVIDE ACCESS DOORS FOR
SHUT-OFF VALVES AS REQUIRED.
ANY AND ALL EHW, HW/CW/HWR,
ETC., ARE SHOWN FOR CLARITY.
VERIFY LOCATIONS/ROUTING.
(TYP FOR ALL UNITS)

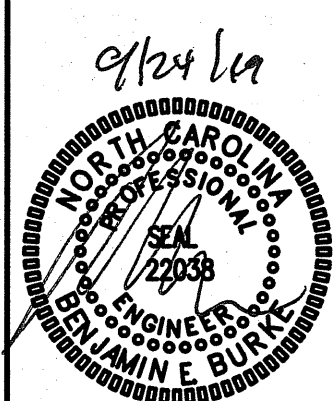
KEY NOTES FOR SHEET P-12

- 1 TENANT CW BELOW GRADE TO
MAIN. PROVIDE METER IN BOX
AFTER TAP FROM MAIN. VERIFY
LOCATION, COORDINATE W/SITE.
- 2 RISE TO RPZ. VERIFY LOCATION.
- 3 CW MAIN UP TO UPPER LIVING AREA
FLOORS TENANT. VERIFY LOCATION.
PROVIDE BACKFLOW PREVENTER IF
REQUIRED PER AHJ- WATTS 007
DOUBLE CHECK ASSEMBLY OR RPZ
AS SPECIFIED AND DETAILED FOR
MERCANTILE TENANT ON SHEET P-1.
PROVIDE MAIN SHUT-OFF VALVE W/
ACCESS DOOR IF REQUIRED- VERIFY
WITH BUILDING OWNER.

VERIFY QUANTITY AND
MOUNTING LOCATION OF
FPHB W/OWNER, ARCH.
(TYP FOR ALL UNITS)



MERCANTILE SUPPLY PLAN UNITS 8/9
SCALE: 1/4"=1'-0"



MERCANTILE
SUPPLY PLAN
UNITS 8/9

18030

ISSUED: 09/11/19

DWG BY: DS

CKD BY: BEB

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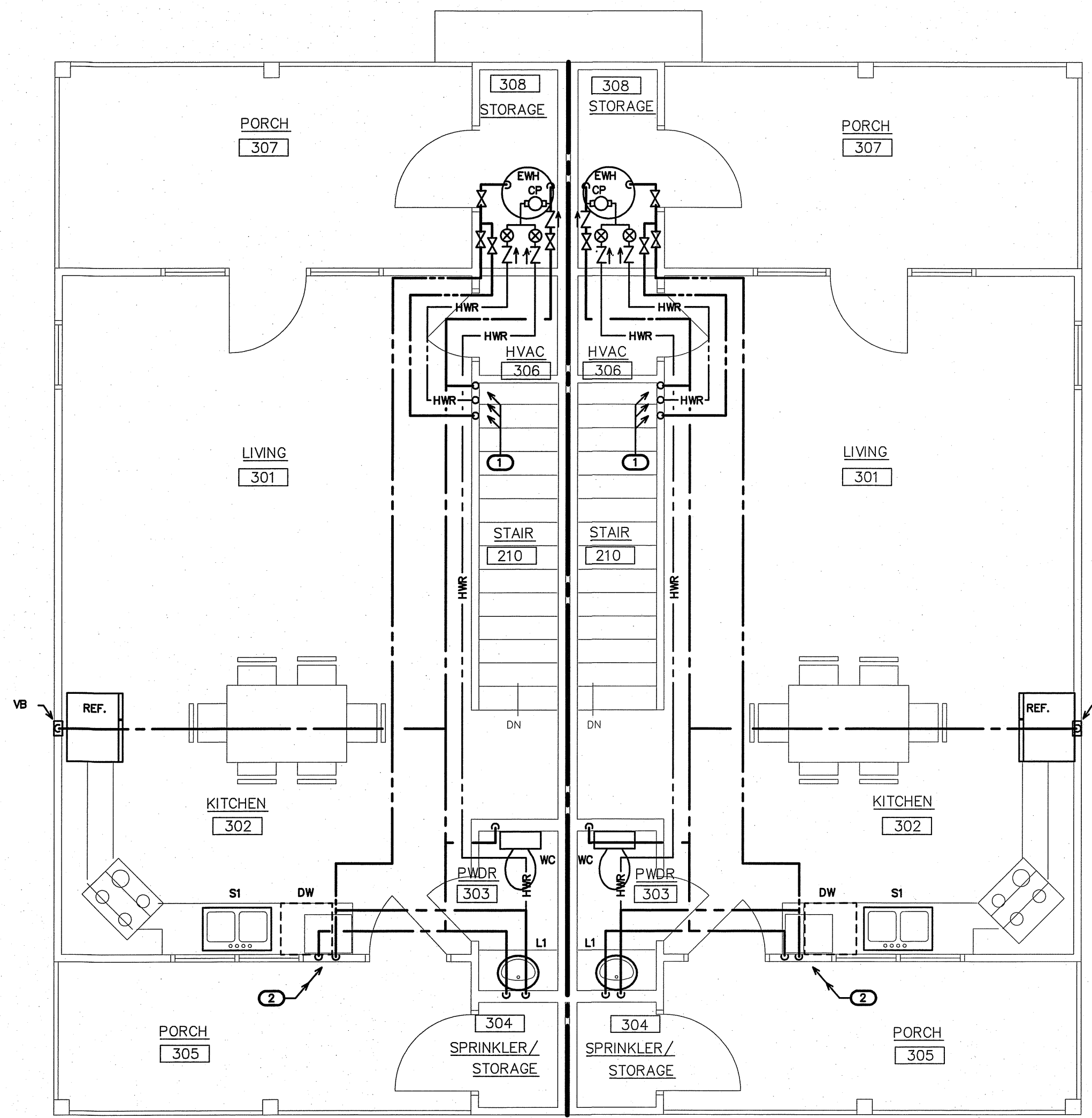
SHEET NO.

P-12

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NOTE:
PROPERLY INSULATE ALL SUPPLY
PIPING IN UNCONDITIONED AREAS.
PROVIDE ACCESS DOORS FOR
SHUT-OFF VALVES AS REQUIRED.
ANY AND ALL EWH, HW/CW/HWR,
ETC., ARE SHOWN FOR CLARITY.
VERIFY LOCATIONS/ROUTING.
(TYP FOR ALL UNITS)

- KEY NOTES FOR DRAWING 2/P-12.1
- 3/4" HW/HW RETURN/CW DN TO ABOVE NEXT LEVEL (FIRST LIVING) CEILING. VERIFY LOCATION. ROUTE AS REQUIRED TO DROP IN WALL OF NEXT LEVEL. SEE FIRST LIVING SUPPLY PLAN. PROVIDE SHUT-OFF VALVE FOR EACH LINE WITH ACCESS DOOR ABOVE FLOOR/BELOW CEILING IN AN ACCESSIBLE LOCATION.
 - DROP CW/HW TO AVOID WINDOW AND ROUTE LINES AS REQUIRED TO SI. VERIFY LOCATION. EXTEND HW TO DW.

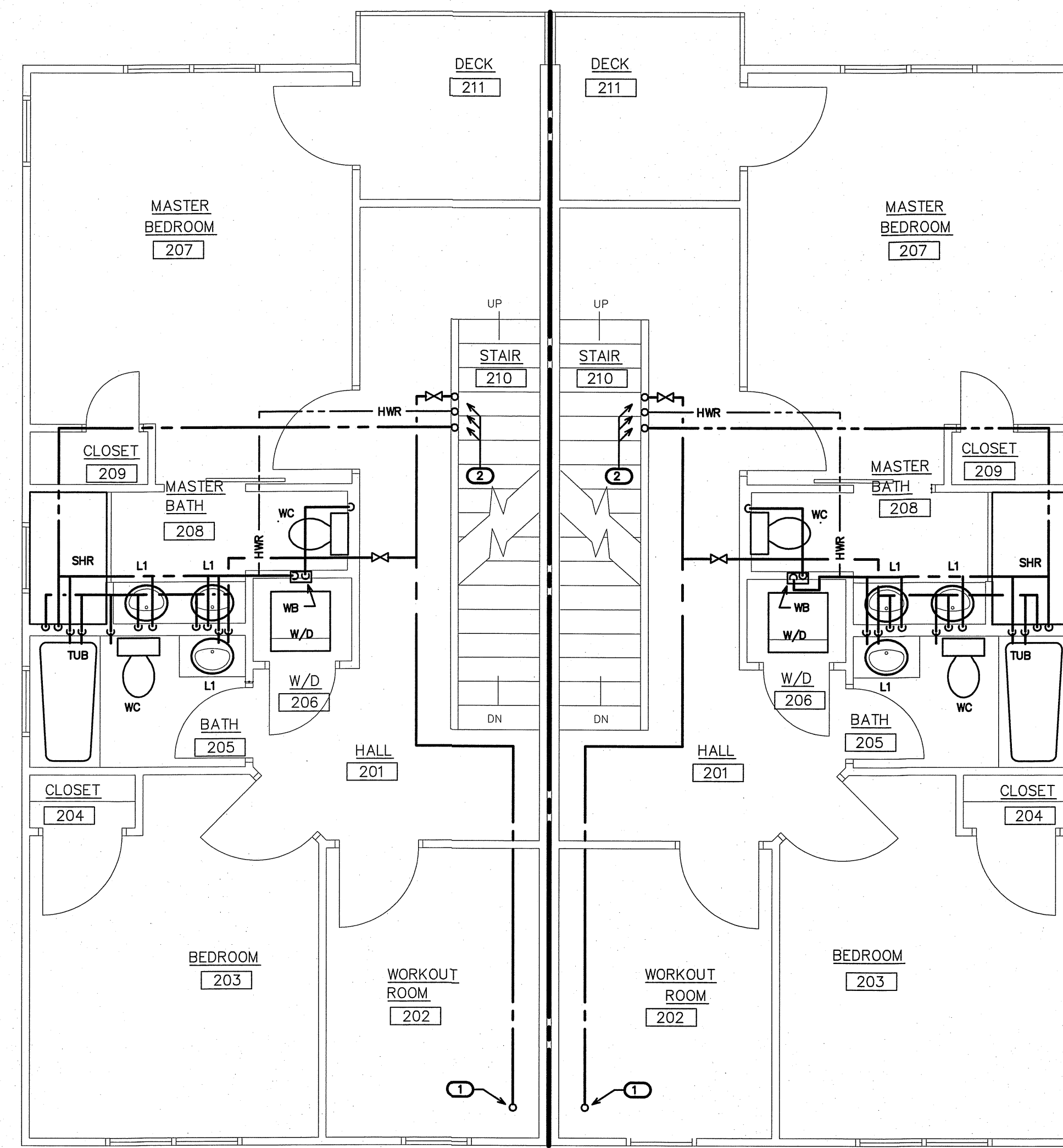


UNIT 9 UNIT 8

2 SECOND LIVING SUPPLY PLAN UNITS 8/9
SCALE: 1/4"=1'-0"

NOTE:
PROPERLY INSULATE ALL SUPPLY
PIPING IN UNCONDITIONED AREAS.
PROVIDE ACCESS DOORS FOR
SHUT-OFF VALVES AS REQUIRED.
ANY AND ALL EWH, HW/CW/HWR,
ETC., ARE SHOWN FOR CLARITY.
VERIFY LOCATIONS/ROUTING.
(TYP FOR ALL UNITS)

- KEY NOTES FOR DRAWING 1/P-12.1
- 1" CW DN AND UP TO ABOVE CEILING. VERIFY LOCATION. PROVIDE SHUT-OFF VALVE W/ACCESS DOOR ABOVE FLOOR/BELOW CEILING IN AN ACCESSIBLE LOCATION.
 - 3/4" HW/HW RETURN/CW UP TO ABOVE NEXT LEVEL CEILING. VERIFY LOCATION. ROUTE AS REQUIRED TO RISE IN WALL OF UPPER LEVEL. SEE SECOND LIVING SUPPLY PLAN.



UNIT 9 UNIT 8

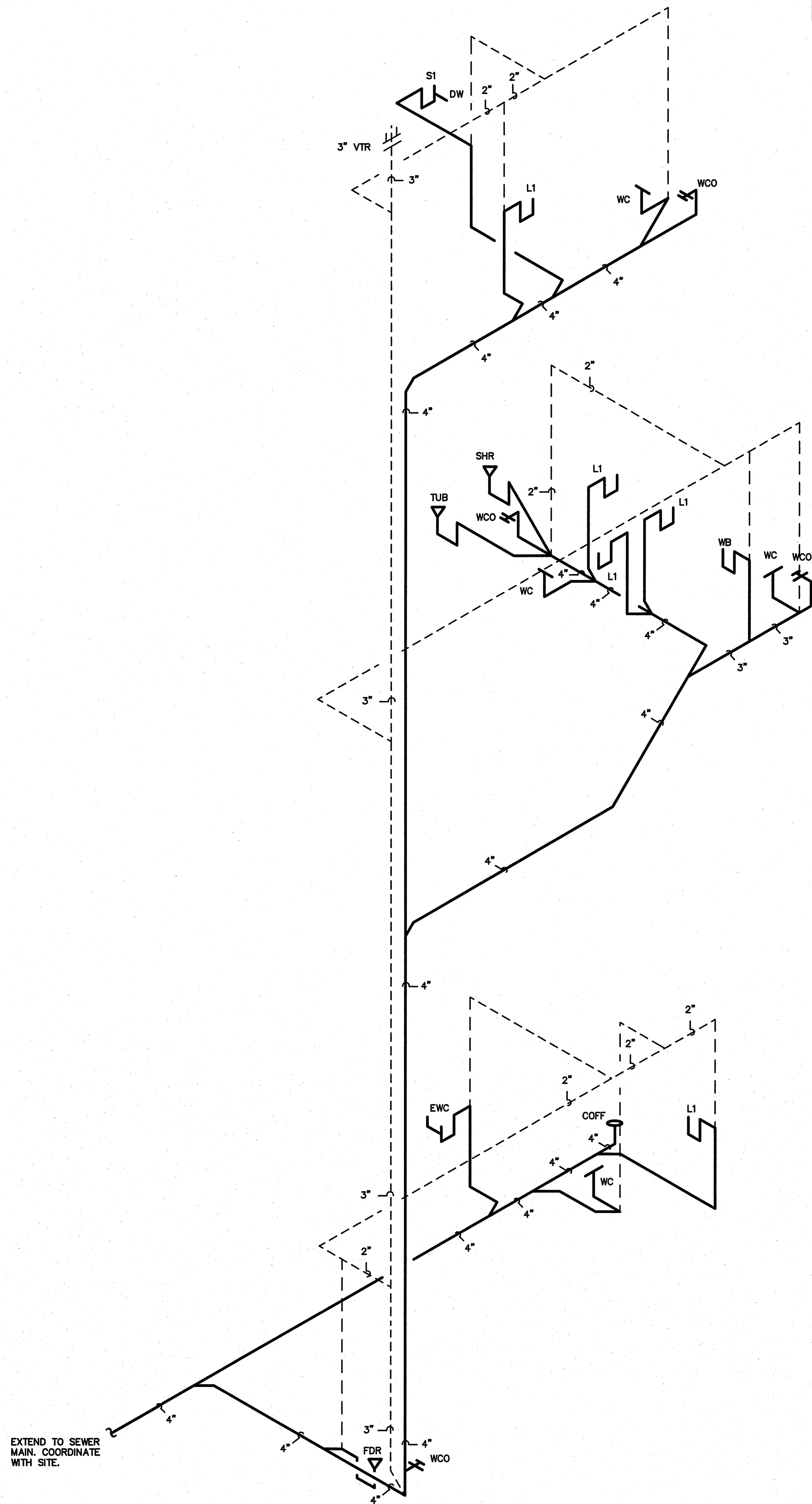
1 FIRST LIVING SUPPLY PLAN UNITS 8/9
SCALE: 1/4"=1'-0"

(VERIFY ALL EQUIPMENT REQUIREMENTS PRIOR TO ROUGH-IN)

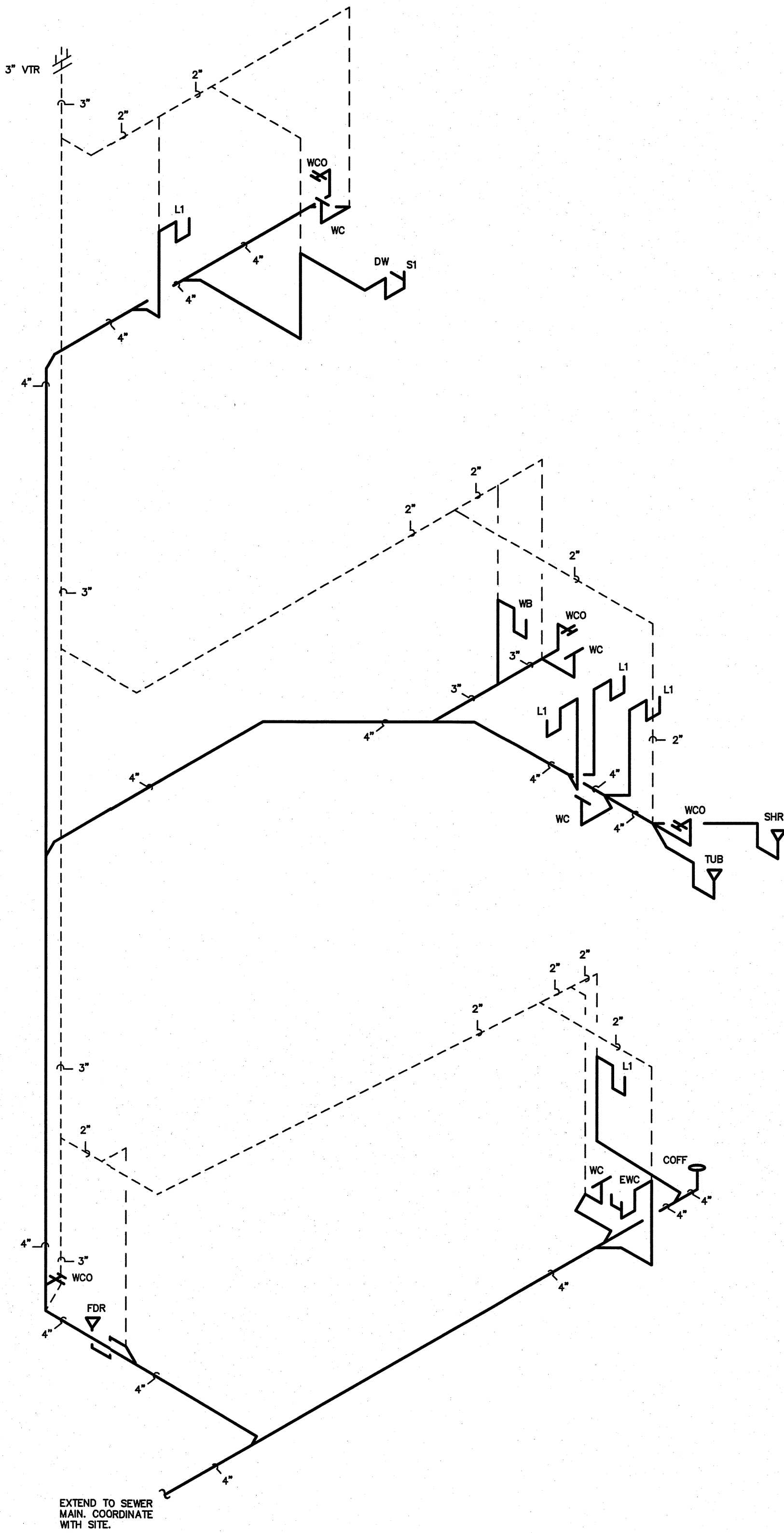
PIPE SIZING SCHEDULE		
FIXTURE TYPE	DRAIN	VENT
(DW) DISHWASHER	1/2"	-
(EWC) ELECTRIC WATER COOLER	1 1/4"	1 1/4"
(FDR) FLOOR DRAIN- RECESSED	2"	1 1/4"
(L1) LAVATORY	1 1/2"	1 1/4"
(SI) SINK	1 1/2"	1 1/4"
(SHR) SHOWER	2"	1 1/4"
(TUB) BATHTUB	2"	1 1/4"
(WB) WASHING MACHINE BOX	2"	1 1/2"
(WC) FLUSH TANK WATER CLOSET	3"	1 1/2"

RISER NOTES:
REPRESENTATIVE SIZES ARE GIVEN FOR EACH TYPE OF FIXTURE.
SEE PIPE SIZING SCHEDULE.
MINIMUM 2" DRAIN LINE SIZE UNDER SLAB.
MAINTAIN PIPE SIZES SHOWN UNTIL LARGER SIZE IS REACHED.
PIPE SIZES ARE MINIMUMS FOR INDIVIDUAL FIXTURES U.O.N.
(TYP FOR ALL UNITS)

NOTE:
PROVIDE PROPER VENT THRU ROOF (VTR).
RUN HORIZONTALLY AS REQUIRED TO
MAINTAIN 10'-0" CLEARANCE FROM ANY
INTAKES. PROPERLY FLASH ANY ROOF
PENETRATION.
(TYP FOR ALL UNITS)



UNIT 9



UNIT 8

DWV RISERS
SCALE: NTS
UNITS 8/9

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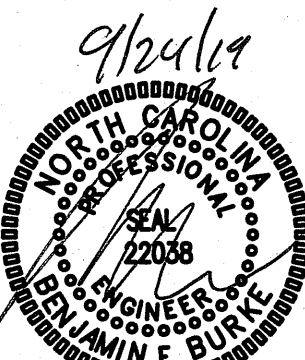
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VILLAGE WEST
UNITS 8-9
EMERALD ISLE, NORTH CAROLINA



DWV RISERS
UNITS 8/9

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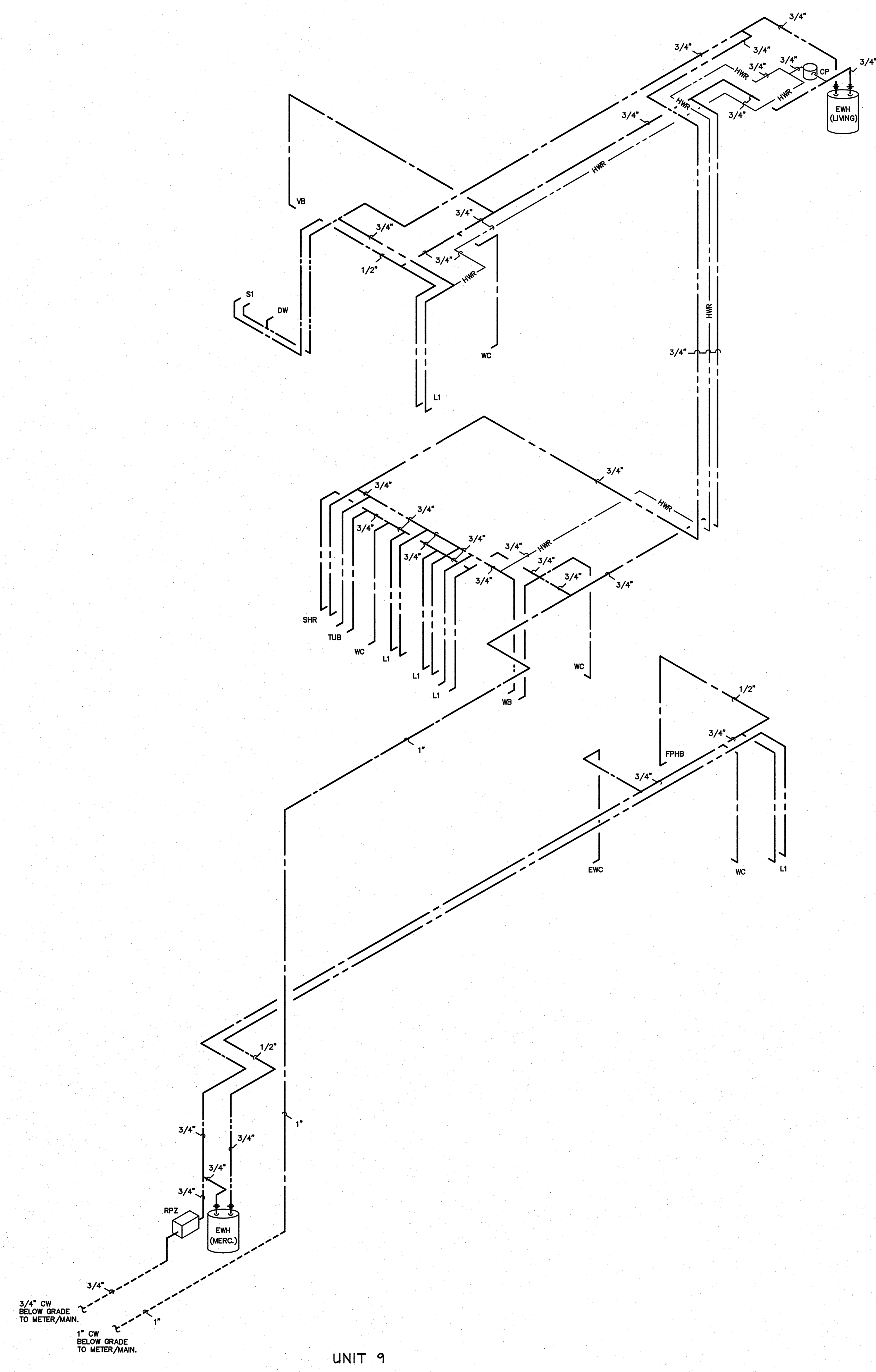
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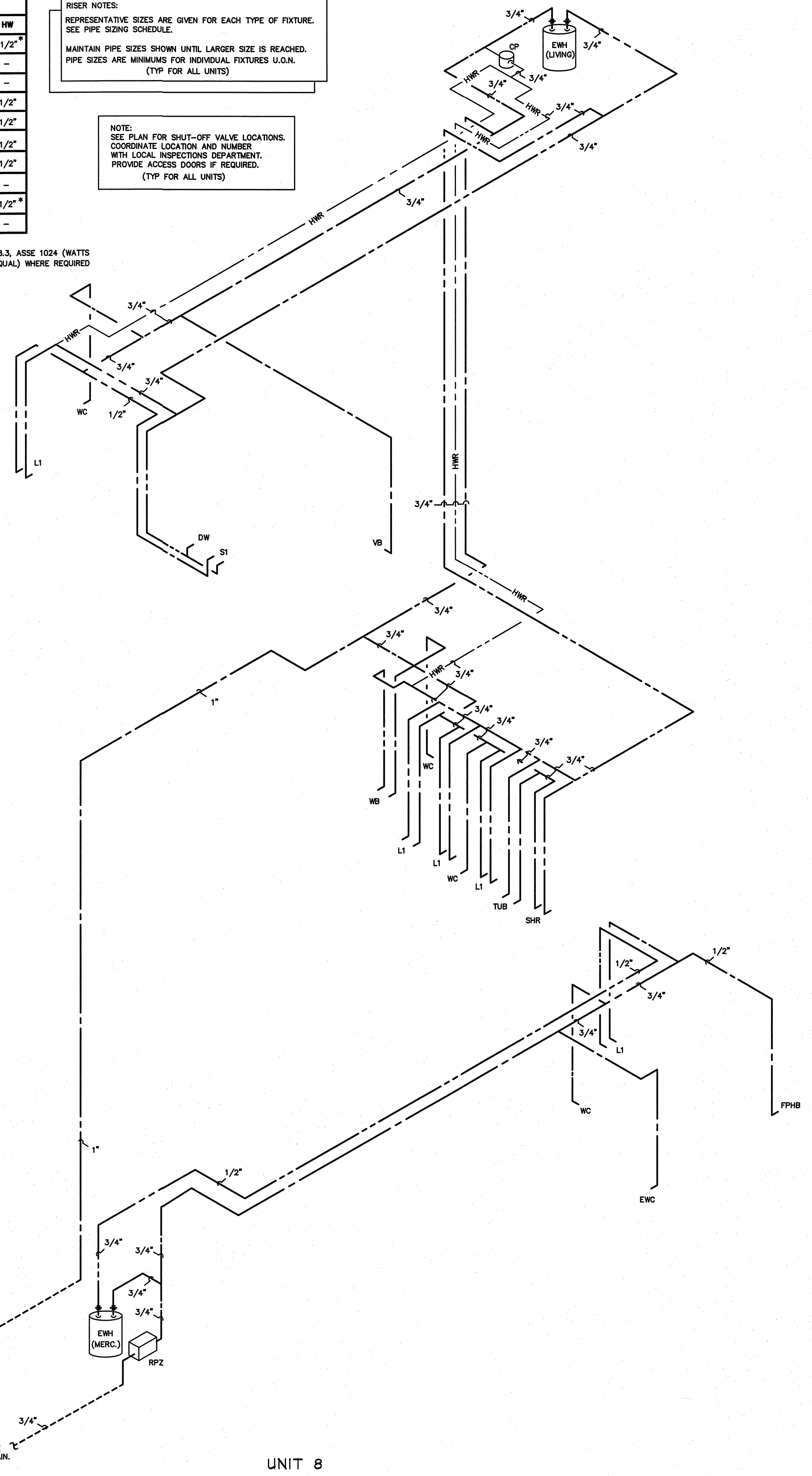
(VERIFY ALL EQUIPMENT REQUIREMENTS PRIOR TO ROUGH-IN)

PIPE SIZING SCHEDULE		
FIXTURE TYPE	CW	HW
(DW) DISHWASHER	—	1/2"
(EWC) ELECTRIC WATER COOLER	1/2"	—
(FPHB) FREEZE PROOF HOSE BIBB	1/2"	—
(L1) LAVATORY	1/2"	1/2"
(SI) SINK	1/2"	1/2"
(SHR) SHOWER	1/2"	1/2"
(TUB) BATHTUB	1/2"	1/2"
(VB) VALVE BOX	1/2"	—
(WB) WASHING MACHINE BOX	1/2"	1/2"
(WC) FLUSH TANK WATER CLOSET	1/2"	—

RISER NOTES:
 REPRESENTATIVE SIZES ARE GIVEN FOR EACH TYPE OF FIXTURE. SEE PIPE SIZING SCHEDULE.
 MAINTAIN PIPE SIZES SHOWN UNTIL LARGER SIZE IS REACHED. PIPE SIZES ARE MINIMUMS FOR INDIVIDUAL FIXTURES U.O.N. (TYP FOR ALL UNITS)

NOTE:
 SEE PLAN FOR SHUT-OFF VALVE LOCATIONS. COORDINATE LOCATION AND NUMBER WITH LOCAL INSPECTIONS DEPARTMENT. PROVIDE ACCESS DOORS IF REQUIRED. (TYP FOR ALL UNITS)

* PROVIDE BACKFLOW PREVENTER PER NCSSC-PLUMBING SECT. 608.3, ASSE 1024 (WATTS SERIES 7 OR EQUAL) OR ASSE 1022 (WATTS SERIES SD-3 OR EQUAL) WHERE REQUIRED IF NOT AN INTEGRAL PART OF THE EQUIPMENT.



SUPPLY RISERS UNITS 8/9
 SCALE: NTS

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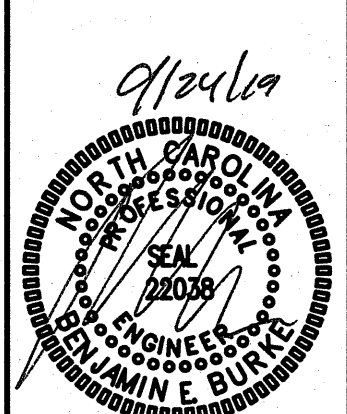
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VILLAGE WEST
UNITS 8-9
EMERALD ISLE, NORTH CAROLINA



SUPPLY RISERS
 UNITS 8/9

18030

ISSUED: 09/11/19
 DWG BY: DS
 CKD BY: BEB

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SHEET NO.
P-13.2
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HVAC EQUIPMENT SCHEDULE	
HVAC SYSTEM #1	
AHU #1 DIRECT EXPANSION FAN COIL UNIT	* CARRIER MODEL #FX4DNF019, 4 WAY, MULTIPOISE FAN COIL UNIT. 3.8 KW HEATER. NOMINAL CAPACITY = 18,000 BTUH. 800 CFM NOMINAL. PROVIDE HARD SHUT-OFF TXV VALVE. 1.5 TON NOMINAL. PROVIDE PROGRAMMABLE THERMOSTAT AND FILTER RACK WITH HINGED DOOR. 1/3HP, 2.8A MOTOR FLA, 18.1A HEAT FLA, 208V, 1 PH, 26.0A MCA, 30A MOCP AHU & HEAT.
HP #1 OUTDOOR HEAT PUMP UNIT	* CARRIER MODEL #25HCC518A0030, 1.5 TON OUTDOOR HEAT PUMP UNIT, 15 SEER, PROVIDE CYCLE PROTECTOR, LOW PRESSURE SWITCH, CRANKCASE HEATER, 208 VOLT, 1 PHASE. COMP 9.0A RLA, FAN 0.7A FLA, OUTDOOR HEAT PUMP 11.8A MCA, 20A MOCP.
HVAC SYSTEM #2	
AHU #2 DIRECT EXPANSION FAN COIL UNIT	* CARRIER MODEL #FX4CNF037, 4 WAY, MULTIPOISE FAN COIL UNIT. 6 KW HEATER. NOMINAL CAPACITY = 36,000 BTUH. 1200 CFM NOMINAL. PROVIDE HARD SHUT-OFF TXV VALVE. 3 TON NOMINAL. PROVIDE PROGRAMMABLE THERMOSTAT AND FILTER RACK WITH HINGED DOOR. 1/2HP, 4.1A MOTOR FLA, 28.9A HEAT FLA, 208V, 1 PH, 44.7A MCA, 45A MOCP AHU & HEAT.
HP #2 OUTDOOR HEAT PUMP UNIT	* CARRIER MODEL #25HCC536A0030, 3 TON OUTDOOR HEAT PUMP UNIT, 15 SEER, PROVIDE CYCLE PROTECTOR, LOW PRESSURE SWITCH, CRANKCASE HEATER, 208 VOLT, 1 PHASE. COMP 16.7A RLA, FAN 1.2A FLA, OUTDOOR HEAT PUMP 22.1A MCA, 35A MOCP.
HVAC SYSTEM #3	
AHU #3 DIRECT EXPANSION FAN COIL UNIT	* CARRIER MODEL #FX4DNF025, 4 WAY, MULTIPOISE FAN COIL UNIT. 5 KW HEATER. NOMINAL CAPACITY = 24,000 BTUH. 800 CFM NOMINAL. PROVIDE HARD SHUT-OFF TXV VALVE. 2 TON NOMINAL. PROVIDE PROGRAMMABLE THERMOSTAT AND FILTER RACK WITH HINGED DOOR. 1/3HP, 2.8A MOTOR FLA, 20A HEAT FLA, 240V, 1 PH, 28.5A MCA, 30A MOCP AHU & HEAT.
HP #3 OUTDOOR HEAT PUMP UNIT	* CARRIER MODEL #25HCC524A0030, 2 TON OUTDOOR HEAT PUMP UNIT, 15 SEER, PROVIDE CYCLE PROTECTOR, LOW PRESSURE SWITCH, CRANKCASE HEATER, 240 VOLT, 1 PHASE. COMP 12.8A RLA, FAN 0.5A FLA, OUTDOOR HEAT PUMP 16.5A MCA, 25A MOCP.
HVAC SYSTEM #4	
AHU #4 DIRECT EXPANSION FAN COIL UNIT	* CARRIER MODEL #FX4CNF037, 4 WAY, MULTIPOISE FAN COIL UNIT. 8 KW HEATER. NOMINAL CAPACITY = 36,000 BTUH. 1200 CFM NOMINAL. PROVIDE HARD SHUT-OFF TXV VALVE. 3 TON NOMINAL. PROVIDE PROGRAMMABLE THERMOSTAT AND FILTER RACK WITH HINGED DOOR. 1/2HP, 4.1A MOTOR FLA, 32A HEAT FLA, 240V, 1 PH, 48.5A MCA, 50A MOCP AHU & HEAT.
HP #4 OUTDOOR HEAT PUMP UNIT	* CARRIER MODEL #25HCC536A0030, 3 TON OUTDOOR HEAT PUMP UNIT, 15 SEER, PROVIDE CYCLE PROTECTOR, LOW PRESSURE SWITCH, CRANKCASE HEATER, 240 VOLT, 1 PHASE. COMP 16.7A RLA, FAN 1.2A FLA, OUTDOOR HEAT PUMP 22.1A MCA, 35A MOCP.

* OR APPROVED EQUAL

CONTROLS FOR HVAC SYSTEM #4:

FOR EACH AIR HANDLING UNIT AHU-4 PROVIDE CARRIER MODEL ZONECC2KIT1-B, 2 ZONE SYSTEM,
CONSISTING OF 2 ZONE EQUIPMENT CONTROLLER, USER INTERFACE, REMOTE ROOM SENSOR,
DUCT SENSOR, AND OUTDOOR AIR SENSOR. PROVIDE (2) 14" X 8" ZONE DAMPERS, AND (1)
8" DIA. BAROMETRIC-BYPASS DAMPER. EACH ZONE DAMPER WILL CONTROL SUPPLY AIR TO
EACH OF (2) FLOORS IN CONDO. ZONING SYSTEM SHALL BE INSTALLED PER MANUFACTURER'S
INSTRUCTIONS. FURNISH AND INSTALL ALL PARTS TO PROVIDE COMPLETE OPERATING SYSTEM.

AHU DEHUMIDIFICATION CONTROL NOTE FOR HVAC SYSTEMS #1, 2, 3, & 4:

FOR EACH SYSTEM PROVIDE "SIMPLE ENGINEERED SOLUTIONS" MODEL #FDM-XX HEAT PUMP
DEHUMIDIFICATION CONTROL MODULE. PROVIDE PROGRAMMABLE ELECTRONIC THERMOSTAT WITH AUTO
CHANGEOVER AND HUMIDISTAT FUNCTION. THERMOSTAT SHALL BE COMPATIBLE WITH DEHUMIDIFICATION
CONTROL MODULE. PURPOSE OF DEHUMIDIFICATION CONTROL MODULE IS TO INITIATE COOLING MODE
WHEN HUMIDISTAT SENSES HUMIDITY OVER SETPOINT AND ENERGIZE AND CONTROL ELECTRIC HEAT TO
MAINTAIN SPACE TEMPERATURE.

Village West PH1 M1.1

EXHAUST FAN SCHEDULE

EXHAUST FAN #1 (EF-1)	* CARNES MODEL# VCD0010C EXHAUST FAN, 93 CFM @ 1/4" SP, 640 RPM, 1.1 AMPS, 120V. THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE SWITCH AND WIRE THE UNIT. THE HVAC CONTRACTOR SHALL PROVIDE UNIT, 6" RIGID DUCT TO WALL CAP. LOCATE EXHAUST TERMINATION A MINIMUM OF 10'-0" FROM ANY INTAKES.
--------------------------	---

* OR APPROVED EQUAL

NOTE: RUN EXHAUST DUCTS HORIZONTALLY AS REQUIRED TO MAINTAIN 10'-0" MINIMUM SEPARATION FROM ANY INTAKES.

AIR DISTRIBUTION SCHEDULE

MARK	* MANUFACTURER	MODEL NO.	NECK SIZE	FACE SIZE	MATERIAL	SERVICE	NOTES
A	CARNES	RTDBH	9" X 4"	11" X 6"	STEEL	SUPPLY	CEILING OR DUCT MOUNTED, WHITE
RA	CARNES	RSABH	14" X 14"	16" X 16"	STEEL	RETURN	WHITE, SIDEWALL MOUNTED
RB	CARNES	RSABH	16" X 16"	18" X 18"	STEEL	RETURN	WHITE, SIDEWALL MOUNTED

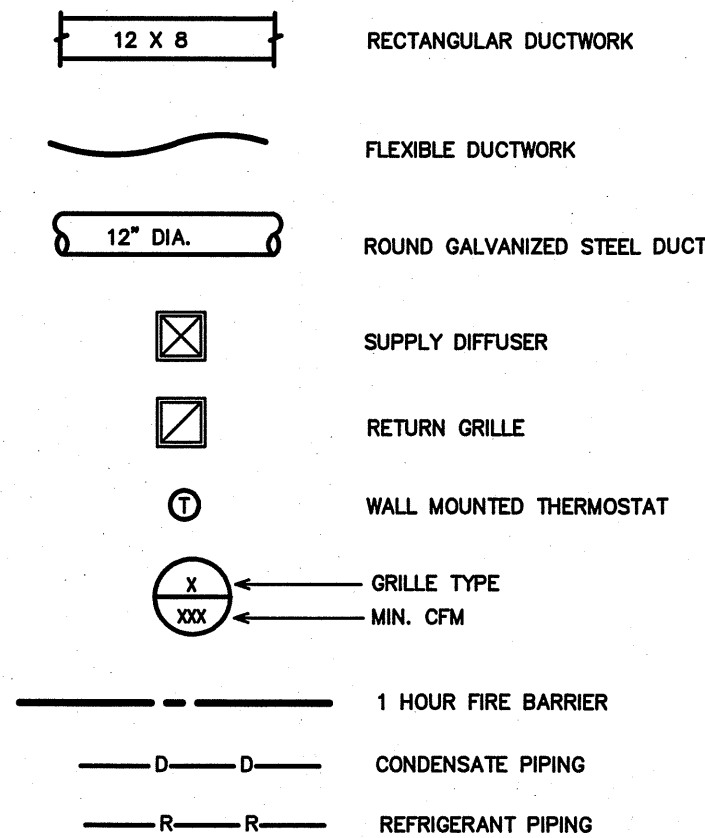
* OR APPROVED EQUAL

COORDINATE BORDER TYPE WITH THE CEILING TYPE. SEE ARCH SHEETS
PROVIDE CUT SHEETS TO OWNER/ARCH. PRIOR TO ORDERING.

GENERAL NOTES - MECHANICAL

- ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE CODE AND ALL LOCAL AND OTHER APPLICABLE CODES.
- ANY PERMITS AND INSPECTION FEES SHALL BE SECURED AND PAID FOR BY THE MECHANICAL CONTRACTOR (MC).
- ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMEN. THE MC SHALL COORDINATE ALL OF HIS WORK WITH THE GENERAL CONTRACTOR (GC) AND OTHER TRADES.
- THE LOCATION OF ALL DUCT, PIPING AND EQUIPMENT SHALL BE ADJUSTED TO ACCOMMODATE ANTICIPATED OR ENCOUNTERED INTERFERENCES.
- THESE PLANS ARE DIAGRAMMATIC AND MAY NOT SHOW MINOR DETAILS AND LOCATIONS. FOR DIMENSIONS REFER TO THE ARCHITECTURAL PLANS.
- THE MC SHALL BE RESPONSIBLE FOR ALL ELECTRICAL STARTERS INTERLOCKS, CONTROL WIRING CONDUIT AND POWER WIRING FROM DISCONNECTS TO HIS EQUIPMENT, USING A LICENSED ELECTRICIAN.
- THE MC SHALL USE FIRE DAMPERS FOR PROTECTION OF THE OPENING IN ACCORDANCE WITH STATE AND LOCAL CODES IN ALL LOCATIONS WHERE PENETRATIONS OF RATED WALLS AND FLOORS OCCUR. SEE ARCHITECTURAL PLANS FOR RATED WALL AND FLOOR LOCATIONS. PROVIDE ACCESS DOORS AT ALL DAMPER LOCATIONS. LOCATE DOORS FOR EASY ACCESS.
- INSTALL FLEXIBLE CONNECTORS ON SUPPLY AND RETURN DUCTWORK AHU. ALL MECHANICAL EQUIPMENT SHALL OPERATE FREE OF OBJECTIONAL NOISE AND VIBRATION.
- INSTALL TURNING VANES IN SUPPLY DUCTS AT ALL ELBOWS AND SPLITTER DAMPERS. PROVIDE BALANCING DAMPERS IN ALL DUCTS WHERE SHOWN OR REQUIRED FOR SYSTEM BALANCING.
- DUCT DIMENSIONS ARE SHOWN INSIDE CLEAR.
- THE MC SHALL KEEP THE PREMISES CLEAR OF DEBRIS FROM HIS WORK DURING CONSTRUCTION AND LEAVE THE AREA AND BUILDING CLEAN AT THE COMPLETION OF HIS WORK. HE SHALL ALSO LEAVE CLEAN ALL EXPOSED EQUIPMENT IN HIS CONTRACT.
- PROVIDE ALL REQUIRED ROOF PENETRATIONS FOR THE INSTALLATION OF THE NEW EQUIPMENT. ALL FLASHINGS ARE BY THE MECHANICAL CONTRACTOR. ALL ROOFING WORK SHALL BE DONE BY A LICENSED ROOFING CONTRACTOR SO AS TO MAINTAIN ORIGINAL WARRANTY.
- THE M.C. SHALL COORDINATE WITH AND PROVIDE EQUIPMENT SPEC. SHEETS TO THE GENERAL AND ELECTRICAL CONTRACTORS FOR REVIEW PRIOR TO ORDERING EQUIPMENT.
- PROPERLY SUPPORT ALL DUCT WORK, AND EQUIP FROM STRUCTURE. PROVIDE ALL STRUCTURAL SUPPORTS FOR THE LOADS AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER.

LEGEND - MECHANICAL



FLEXIBLE DUCTWORK SIZES

MAXIMUM CFM'S

SIZES	SUPPLY	RETURN
4"	100	100
6"	115	115
10"	250	250
12"	400	350
14"	550	500
16"	NA	900

(CHANGE OUT EXISTING FLEX DUCTS AND COLLARS AS REQUIRED TO GET NEW CFM'S SHOWN)

FLEXIBLE DUCTWORK NOTES

- INSTALL FLEXIBLE DUCTWORK RUNS AS STRAIGHT AS POSSIBLE.
- DO NOT ALLOW FLEXIBLE DUCT TO SAG BETWEEN SUPPORTS.
- DO NOT STRETCH A SHORT SECTION TO FIT A SLIGHTLY LONGER SECTION. THIS DISTORTS THE DUCT SHAPE AND IMPEDES AIR FLOW.
- DO NOT CRUSH DUCTWORK TO FIT IN A SPACE SHALLER THAN ITS ORIGINAL OUTSIDE DIAMETER. MAXIMUM ALLOWABLE DEFORMATION IS 15% OF ORIGINAL VOLUME.
- USE RIGID 90 DEGREE ELBOWS AT ANY LOCATION WHERE THE DUCTWORK BECOMES DISTORTED.
- EXTREME CARE SHALL BE TAKEN TO ELIMINATE ANY REDUCTION IN FLOW WITHIN THE FLEXIBLE DUCTS. THE MECH. CONTRACTOR WILL BE REQUIRED TO REPLACE THE FLEXIBLE DUCT WITH RIGID IF PROPER FLOW IS NOT OBTAINED.
- SIZE ALL FLEXIBLE DUCT SO AS NOT TO EXCEED MAXIMUM CFM'S GIVEN IN TABLE.

OUTDOOR AIR CALCULATIONS			
OUTSIDE AIR PROVIDED BY NATURAL VENTILATION PER NCMBQ MECHANICAL CODE, SECTION 402.			
UNIT	TOTAL FLOOR AREA, SQ.FT.	REQUIRED FREE AREA	OPERABLE FREE AREA
1 RETAIL	875	27	83
1 RESIDENTIAL	1250	50	123
2 RETAIL	875	27	83
2 RESIDENTIAL	1250	50	101
3 RETAIL	875	27	83
3 RESIDENTIAL	1250	50	115
4 RETAIL	700	27	63
4 RESIDENTIAL	1255	50	130
5 RETAIL	700	27	63
5 RESIDENTIAL	1255	50	130
6 RETAIL	1245	50	105
6 RESIDENTIAL	2280	92	224
7 RETAIL	1230	50	147
7 RESIDENTIAL	2030	81	173
8,10 RETAIL	875	27	63
8,10 RESIDENTIAL	1255	50	123
9,11 RETAIL	875	27	63
9,11 RESIDENTIAL	1255	50	123

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Corp. License # C-2652

Coastal
Architecture
PLLC

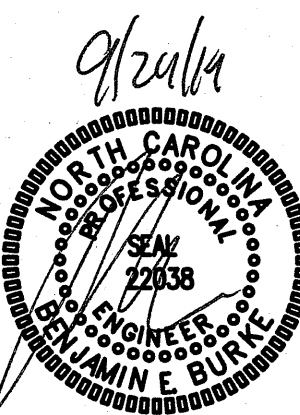
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Design
Planning
Interiors



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VILLAGE WEST
PHASE 1
EMERALD ISLE, NORTH CAROLINA



HVAC
SCHEDULES

18030

ISSUED: 09/11/19
DWG BY: SBK
CKD BY: BEB
REVISIONS

SHEET NO.

M-1

1 OF 13

600 SQFT MERCANTILE SPACE

APPENDIX B

2018 BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS

MECHANICAL DESIGN
(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)
MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEM AND EQUIPMENT

Thermal Zone

winter dry bulb 16F
summer dry bulb 93F

Interior Design Conditions

winter dry bulb 72F
summer dry bulb 75F
relative humidity 50%

Building Heating Load 12,700 BTU/hr
(Tenant space only)

Building Cooling Load 22,700 BTU/hr
(Tenant space only)

Mechanical Spacing Conditioning System

Unitary - The tenant space is served the following systems:
(1) 1.5 Ton split system heat pump.

Boiler - Not applicable to this project.

Chiller - Not applicable to this project.

Equipment efficiencies

Efficiencies and outputs are listed on equipment
schedules - See drawings.

1200 SQFT MERCANTILE SPACE

APPENDIX B

2018 BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS

MECHANICAL DESIGN
(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)
MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEM AND EQUIPMENT

Thermal Zone

winter dry bulb 16F
summer dry bulb 93F

Interior Design Conditions

winter dry bulb 72F
summer dry bulb 75F
relative humidity 50%

Building Heating Load 11,500 BTU/hr
(Tenant space only)

Building Cooling Load 27,100 BTU/hr
(Tenant space only)

Mechanical Spacing Conditioning System

Unitary - The tenant space is served the following systems:
(1) 3 Ton split system heat pump.

Boiler - Not applicable to this project.

Chiller - Not applicable to this project.

Equipment efficiencies

Efficiencies and outputs are listed on equipment
schedules - See drawings.

2 BEDROOM CONDO

APPENDIX B

2018 BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS

MECHANICAL DESIGN
(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)
MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEM AND EQUIPMENT

Thermal Zone

winter dry bulb 16F
summer dry bulb 93F

Interior Design Conditions

winter dry bulb 72F
summer dry bulb 75F
relative humidity 50%

Building Heating Load 9,600 BTU/hr
(Tenant space only)

Building Cooling Load 29,100 BTU/hr
(Tenant space only)

Mechanical Spacing Conditioning System

Unitary - The tenant space is served the following systems:
(1) 3 Ton split system heat pump.

Boiler - Not applicable to this project.

Chiller - Not applicable to this project.

Equipment efficiencies

Efficiencies and outputs are listed on equipment
schedules - See drawings.

3 BEDROOM CONDO

APPENDIX B

2018 BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS

MECHANICAL DESIGN
(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)
MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEM AND EQUIPMENT

Thermal Zone

winter dry bulb 16F
summer dry bulb 93F

Interior Design Conditions

winter dry bulb 72F
summer dry bulb 75F
relative humidity 50%

Building Heating Load 14,300 BTU/hr
(Tenant space only)

Building Cooling Load 37,600 BTU/hr
(Tenant space only)

Mechanical Spacing Conditioning System

Unitary - The tenant space is served the following systems:
(2) 2 Ton split system heat pump.

Boiler - Not applicable to this project.

Chiller - Not applicable to this project.

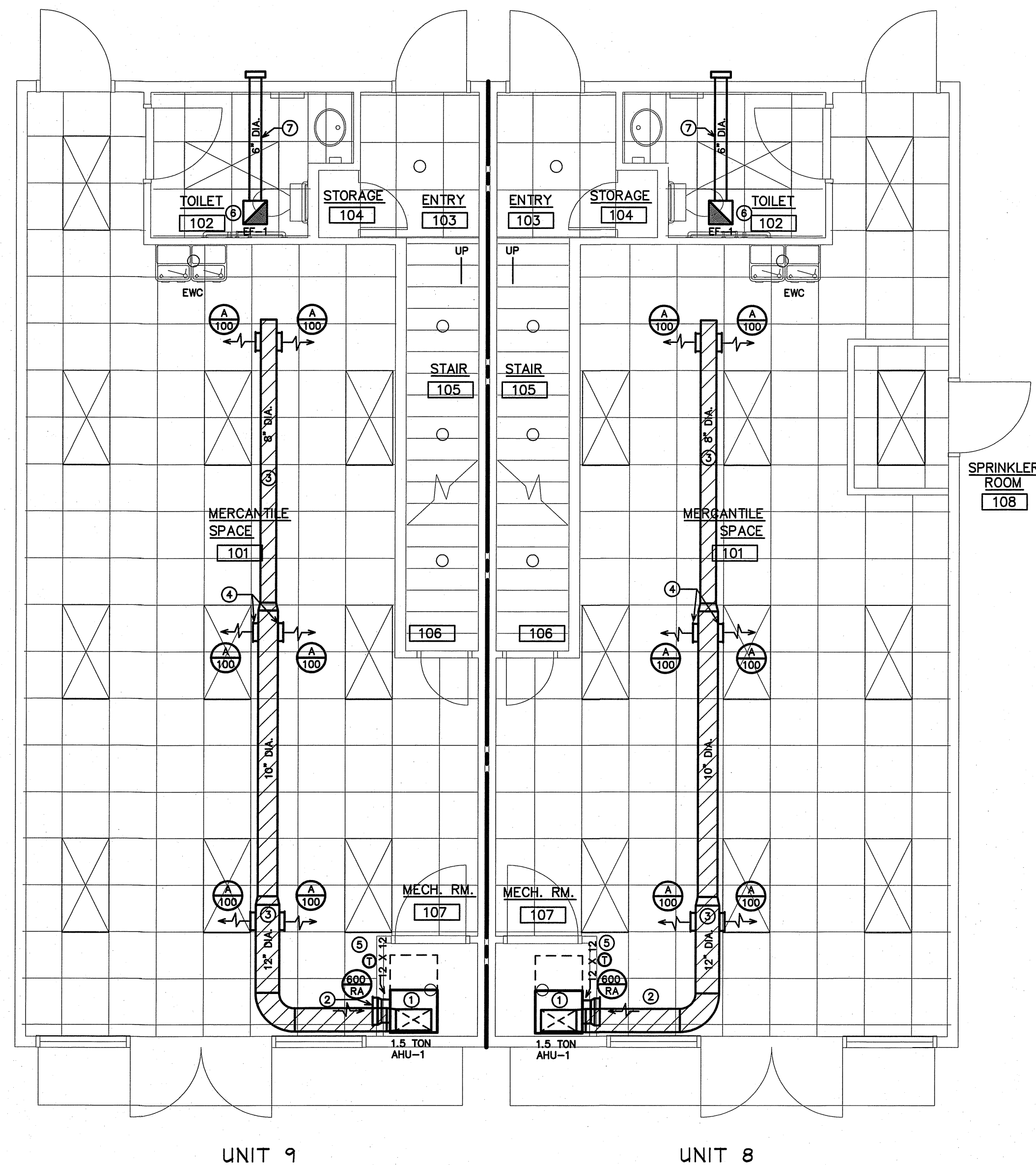
Equipment efficiencies

Efficiencies and outputs are listed on equipment
schedules - See drawings.

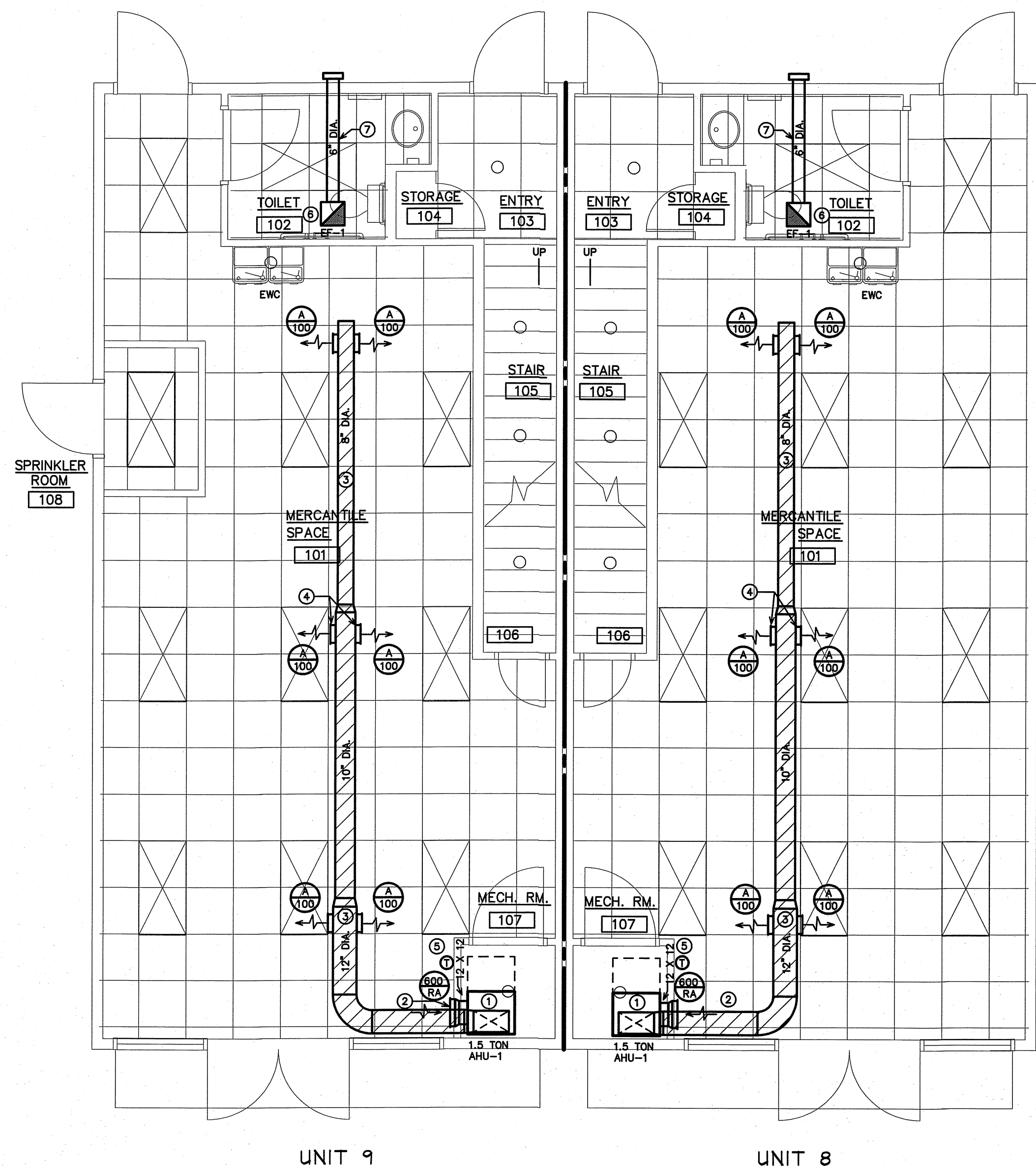
ENGINEER

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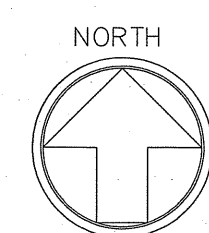
- KEY NOTES FOR M2.1
- 1 VERTICAL AIR HANDLING UNIT. SEE DETAIL 3/M6
 - 2 SIDE WALL MOUNTED RETURN AIR GRILLE.
 - 3 DOUBLE WALL SPIRAL SUPPLY AIR DUCT RUN EXPOSED IN SPACE AS HIGH AS POSSIBLE. SEE DETAIL 4/M6
 - 4 DUCT MOUNTED SUPPLY AIR DIFFUSER. SEE DETAIL 4/M6 (TYPICAL)
 - 5 THERMOSTAT MOUNTED AT 48" AFF.
 - 6 TOILET EXHAUST FAN MOUNTED IN CEILING.
 - 7 RUN INSULATED RIGID STEEL DUCT CONCEALED ABOVE CEILING TO WALL DISCHARGE CAP.

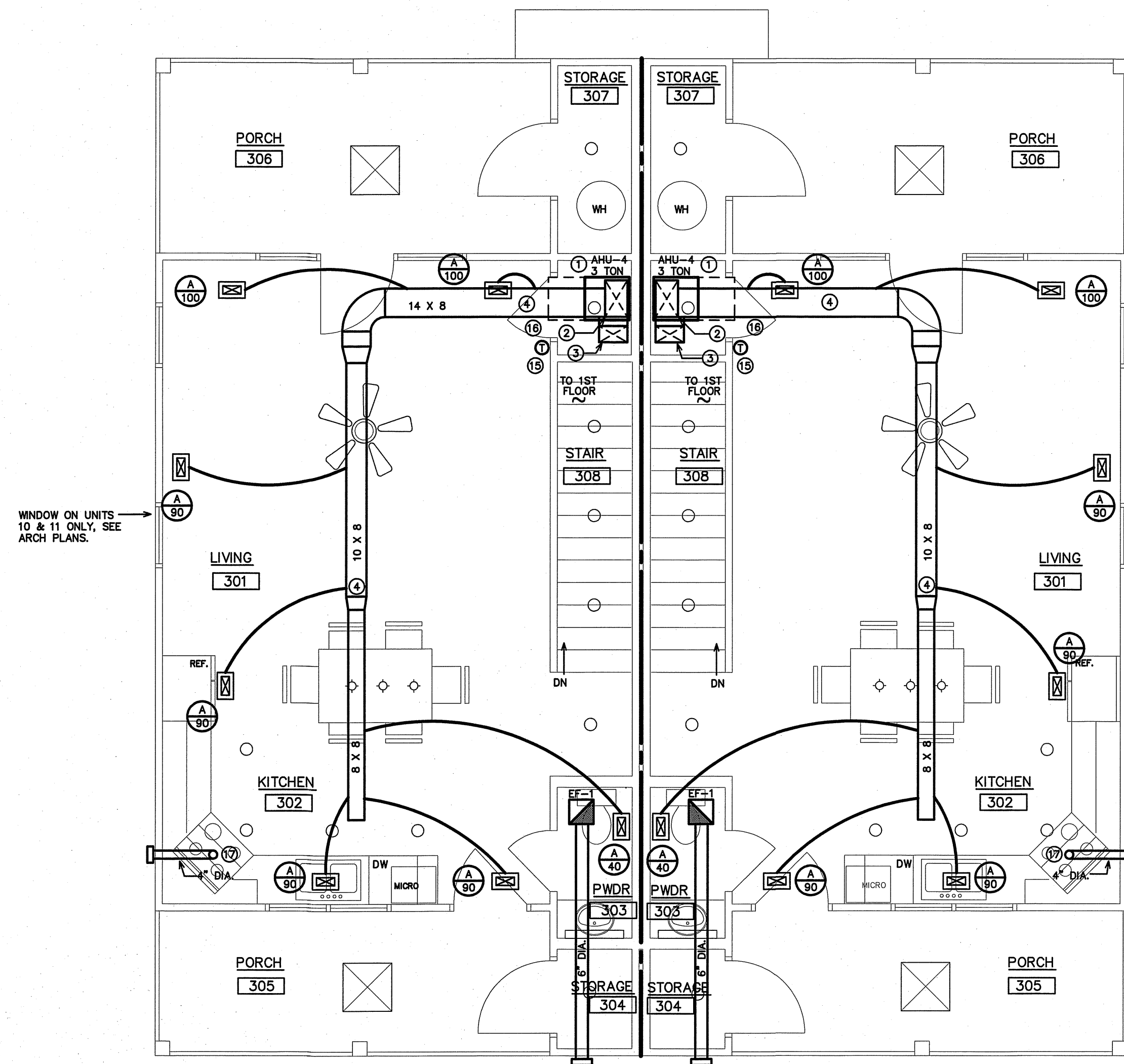


1 MERCANTILE FLOOR HVAC PLAN UNITS 8/9
M-5.1 SCALE: 1/4" = 1'-0"



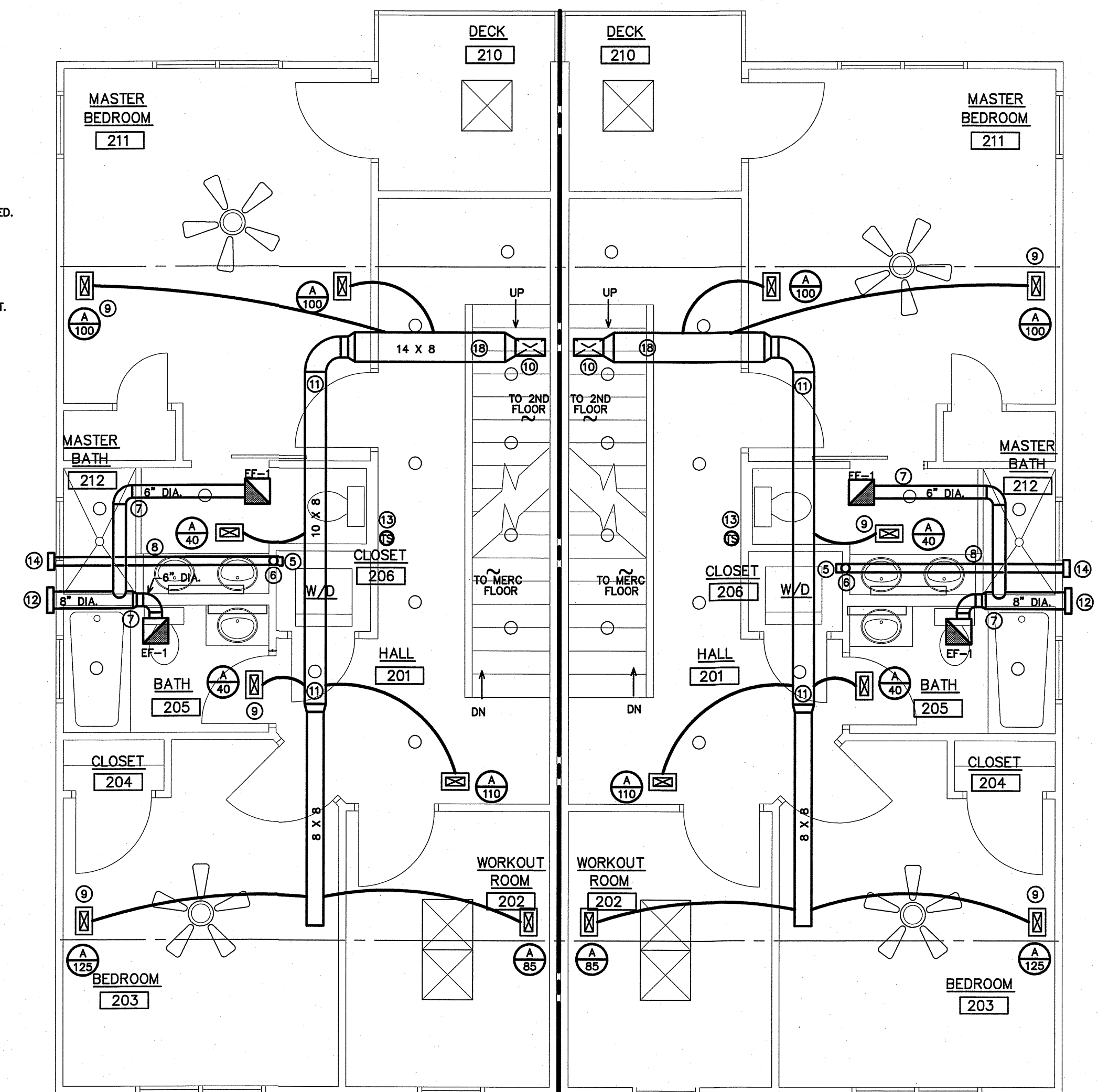
1 MERCANTILE FLOOR HVAC PLAN UNITS 10/11
M-5.1 SCALE: 1/4" = 1'-0"



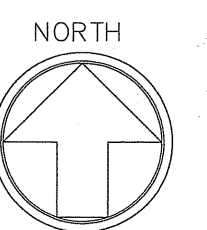


2 SECOND FLOOR HVAC PLAN UNITS 8/9/10/11
M-5.3 SCALE: 1/4" = 1'-0"

- KEY NOTES FOR M5.2
- 1 VERTICAL AIR HANDLING UNIT MOUNTED IN CLOSET. SEE DETAIL 1/M6
 - 2 8 X 14 SUPPLY AIR DUCT UP TO ATTIC SPACE.
 - 3 8 X 14 SUPPLY AIR DUCT DOWN TO FLOOR BELOW.
 - 4 RUN SUPPLY AIR DUCT IN ATTIC SPACE.
 - 5 4" DIA. RIGID STEEL DRYER VENT DUCT STUBBED OUT AT 48" AFF.
 - 6 4" DIA. RIGID STEEL DRYER VENT DUCT UP CONCEALED IN WALL TO CEILING ABOVE.
 - 7 RUN RIGID EXHAUST DUCT CONCEALED ABOVE CEILING. ALL EXHAUST DUCT SHALL BE INSULATED.
 - 8 RUN 4" DIA RIGID STEEL DRYER VENT DUCT CONCEALED ABOVE CEILING.
 - 9 CEILING MOUNTED SUPPLY AIR DIFFUSER. (TYPICAL)
 - 10 14 X 8 SUPPLY AIR DUCT UP TO SECOND FLOOR.
 - 11 RUN SUPPLY AIR DUCT CONCEALED ABOVE CEILING IN DUCT CHASE IN CENTER OF FLOOR JOIST.
 - 12 WALL MOUNTED EXHAUST CAP SHALL HAVE BACK DRAFT DAMPER.
 - 13 TEMPERATURE SENSOR MOUNTED AT 48" AFF.
 - 14 DRYER WALL VENT CAP. CAP SHALL HAVE BACK DRAFT DAMPER.
 - 15 MOUNT THERMOSTAT AT 48" AFF.
 - 16 RETURN AIR TO AHU SHALL BE THROUGH LOUVERED DOOR.
 - 17 CONNECT 4" DIA RIGID STEEL DUCT TO DUCT COLLAR ON RANGE HOOD.
RUN CONCEALED ABOVE CEILING TO WALL EX. CAP.
 - 18 RUN SUPPLY AIR DUCT CONCEALED ABOVE CEILING BETWEEN AND PARELLEL TO FLOOR JOIST.



1 FIRST FLOOR HVAC PLAN UNITS 8/9/10/11
M-5.3 SCALE: 1/4" = 1'-0"



DIVISION 15 B - HEATING, VENTILATING AND AIR CONDITIONING

1.1 DESCRIPTION OF THE WORK

- A. Work under this section includes, but is not necessarily limited to, furnishing and installing the following:
1. Heating, ventilation, and air conditioning equipment.
 2. Ductwork.
 3. Grilles and diffusers.
 4. Controls and control wiring.
 5. Condensate piping.

- B. All work under this contract shall be installed in compliance with the latest edition of the following codes and standards insofar as they apply:

1. ASHRAE Guide
2. National Electric Code.
3. 2018 NC State Building Code: Mech. Code.
4. The Electrical Specifications for this project.
5. SMACNA HVAC Duct Construction Standards.
6. All local codes and ordinances.
7. ARI rating.
8. 2018 NC State Building Code: Energy Conservation Code.

- C. These codes are minimum standards. If codes require a more stringent method of construction than the specifications require, the codes shall govern.

- D. The HVAC Contractor shall be licensed in North Carolina and have all local licenses required for the work.

1.2 INTENT

- A. The intent of these specification and the accompanying drawing is to convey as reasonably as possible the requirements for a complete job ready for the building to operate. The HVAC Contractor shall take this into consideration and include in his bid allowance for contingencies as will allow him to provide minor pieces of equipment and labor not specifically indicated but required for the job to operate properly, at no additional cost to the Owner.

1.3 COORDINATION

- A. Coordinate work with other contractors. Notify Owner of apparent conflicts early to expedite construction. If structural damage appears imminent, stop work and notify Owner for a decision before resuming operations.
- B. Locations shown are approximate. The HVAC Contractor shall verify with owner, the placement of equipment, fixtures, outlets, etc. The drawings do not give exact details as to elevations and locations of various pipes, fittings, ducts, conduit, etc., and do not show all offsets and other installation details which may be required.

- C. Changes in duct or piping design caused by obstructions shall be submitted to Engineer in sketch form for study and comment prior to execution. Additional cost will not be allowed for this type of work.

1.4 SHOP DRAWINGS

- A. Shop drawings shall be submitted for all major items of equipment. These may consist of the manufacturer's standard catalog or tear sheets and shall show the exact items being offered clearly identified. Shop drawings shall include but are not limited to the following:

1. All equipment and accessories.
2. Grilles and diffusers.
3. Unit sizes and requirements.

PART 2 - PRODUCTS

2.1 EQUIPMENT

- A. All air handling devices must have the manufacturer's recommended filter rack, for 1" thick filters.

2.2 PIPING

- A. Condensate drain piping shall be PVC pipe. Provide tee and plug at changes in direction. Route pipe to proper termination point. All condensate piping shall be insulated with flexible elastomeric insulation. Provide copper piping in plenum areas.

2.3 DUCTWORK

- A. Ductwork shall be built in accordance with SMACNA HVAC Duct construction standards. Furnish and install all supply, return, and ventilation ductwork shown, together with splitters, defectors, dampers, etc. This work shall be constructed of new galvanized prime grade steel sheets. The gauges of metal to be used and the construction and broding of joints shall be in accordance with the SMACNA recommendations.

- B. Seal all sheet metal joints with fiber impregnated mastic.
- C. Support from building structure on strap hangers not over 8 feet apart.

- D. Use manufactured turning vanes in each elbow where required or where indicated on drawings.
- E. Flexible connectors shall be 3 inches wide, of fireproof material and used to isolate noise between equipment and ductwork on supply and return side of all units.

- F. Round runouts, where used, shall be built in accordance with the above standards and each runout shall also have manufactured side take off, adjustable quadrant damper at all accessible locations and shall be of Owens Corning NL-25 flexible duct with UL label. Flex duct lengths allowed up to 14 feet. Duct must be supported with sufficient hangers in order to prevent sags. Serpentine routing will not be permitted. Quadrant damper to be 22 gauge easily adjustable manually with exterior handle (similar to H&C Kwik-set) and is not to be mounted in side take-off.

2.4 DUCT INSULATION (LOW PRESSURE)

- A. All insulation, linings, coverings and adhesives shall have a flame spread classification of 25 or less and a smoke developed rating of not more than 50, exposed exterior piping.
- B. All duct insulation shall comply with Section 604, of the I. C. Building Code: Mechanical Code.

- C. All supply and return ductwork shall be completely insulated, either internally or externally.

- D. Rectangular ductwork shall be lined with two-inch thick, 1.5 lb. per cubic foot density, duct liner, Armstrong, CSG Ultraliner, Johns Manville or approved equal.

- E. As an alternative to duct liner rectangular duct may be wrapped with Class 1 - 2, 3/4 lb. density (R=6.5) thick reinforced foil back fiberglass insulation, Owens-corning Series ED or equal. Tape shall be Kraft reinforced foil tape or equal.

- F. Exhaust air duct shall be insulated.

- G. Insulation shall be held in place with adhesive and welding pins 16" on center.

- H. Duct dimensions shown on the drawings are Net Inside Dimensions

2.5 THERMOSTATS

- A. Provide programmable electronic thermostats.
- B. Submit proposed thermostats for approval.

2.6 ROOF PENETRATIONS

- A. Provide pre-manufactured roof flashings compatible with equipment served.
- B. Coordinate roof work with roof system used. Provide proper flashing as required.
- C. Provide 1 year warranty on all roof work performed.

2.7 DUCT SMOKE DETECTORS

- A. Duct detectors are not required since units air flows are 2000 cfm or less per NCSBC: Mechanical Code, Section 606.2.

PART 3 - EXECUTION

3.1 PIPING

- A. The HVAC Contractor shall coordinate such routing with others, to line his work true to adjacent spaces and in a workmanlike manner and to use only short radius 90 degree elbows. Where required, piping to be sturdily supported and separated in a manner satisfactory to the Engineer.
- B. The HVAC Contractor shall paint all exterior refrigerant piping, with UV resistant paint as recommended by the closed cell insulation manufacturer.
- C. Insulate all condensate lines for their entire length with 1/2" closed cell insulation. Install insulation per the manufacturer's recommendations.

3.2 ELECTRICAL WORK

- A. The electrical contractor shall provide all switches, starters, wire conduit for the air conditioning, heating and ventilation equipment. Control wiring shall be by the heating and air conditioning contractor.

- B. HVAC Contractor is responsible for verifying that power terminals have been properly grounded prior to operating equipment and must find connections to all equipment including control wiring.

- C. All materials and workmanship shall be in accordance with the electrical specifications for the project. All wiring shall be color coded, and as-built wiring diagram prepared showing all connections and colors of wiring and delivered to the Owner.

- D. Furnish certification for acceptance of control wiring from local electrical inspector prior to acceptance.

3.3 CLEAN UP

- A. During construction, keep the site clean of debris. Upon completion, and before final inspection, clean up the premises to remove all evidence of work. In addition upon completion of construction leave equipment clean.
- B. Furnish one box of clean filters, for each size required, at the time of final inspection to the owner.

3.4 OPERATOR'S MANUAL AND DIAGRAM

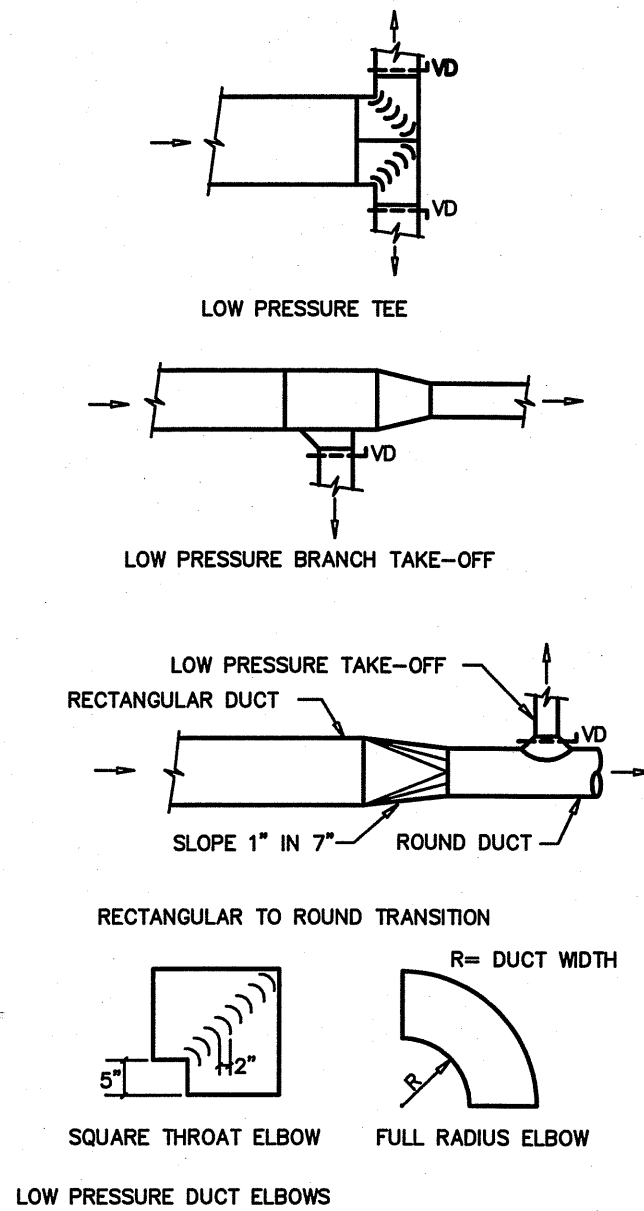
- A. The HVAC Contractor shall prepare in one copy a manual describing the proper maintenance and operation of the systems. This manual shall not consist of standard factory instructions (although these may be included) but shall be prepared to describe this particular job.

- B. The manual shall be bound, indexed, dated and signed by the HVAC Contractor.

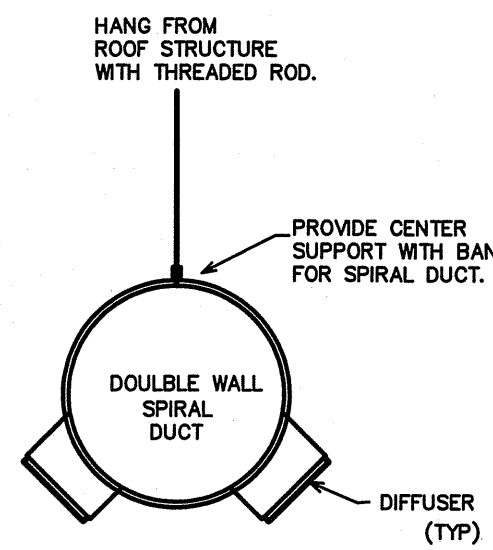
- C. Qualified representative of the HVAC contractor shall meet with the designated representatives of the Owner and the Owner's representative shall be instructed in the proper operation and maintenance of the control system and other systems.

3.5 GUARANTEE

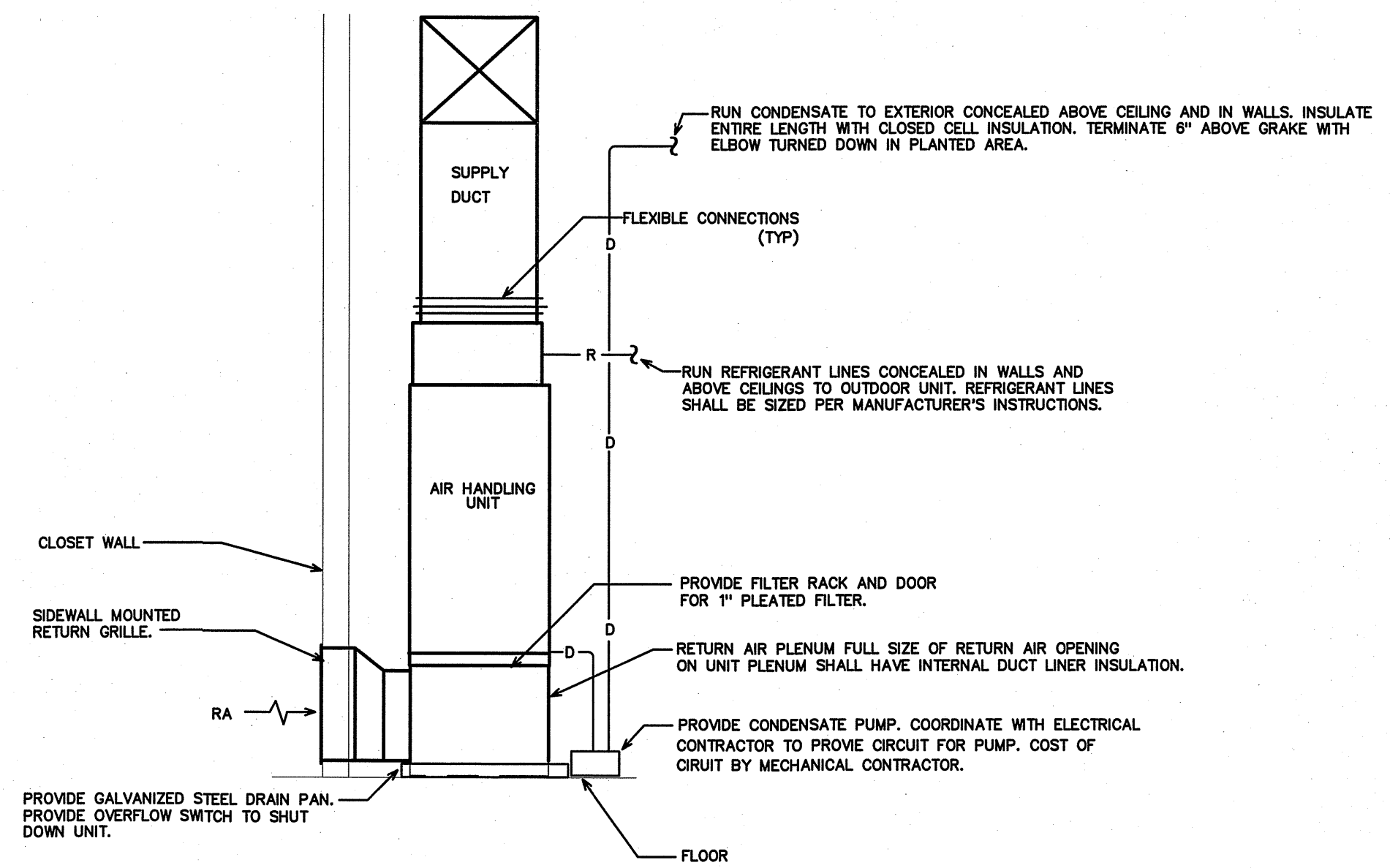
- A. Guarantee all materials and labor included in the HVAC work for a period of one year from date of final acceptance by the owner. In addition, motor compressors shall be a nonprorated five year warranty. Any part or parts of the work or equipment which prove to be defective during the guarantee period shall be replaced at no additional cost to the owner or tenant.
- B. All air flows must be measured and balanced to within 10% of design airflow. All equipment used must have a current certification. Provide two copies of the balance report to the owner at closeout. The HVAC contractor shall return and re-balance to occupant comfort after 90 days from close-out. Provide all balance dampers needed for satisfactory operation regardless if shown on the drawings or not, and shift location of thermostats if required for occupant comfort.



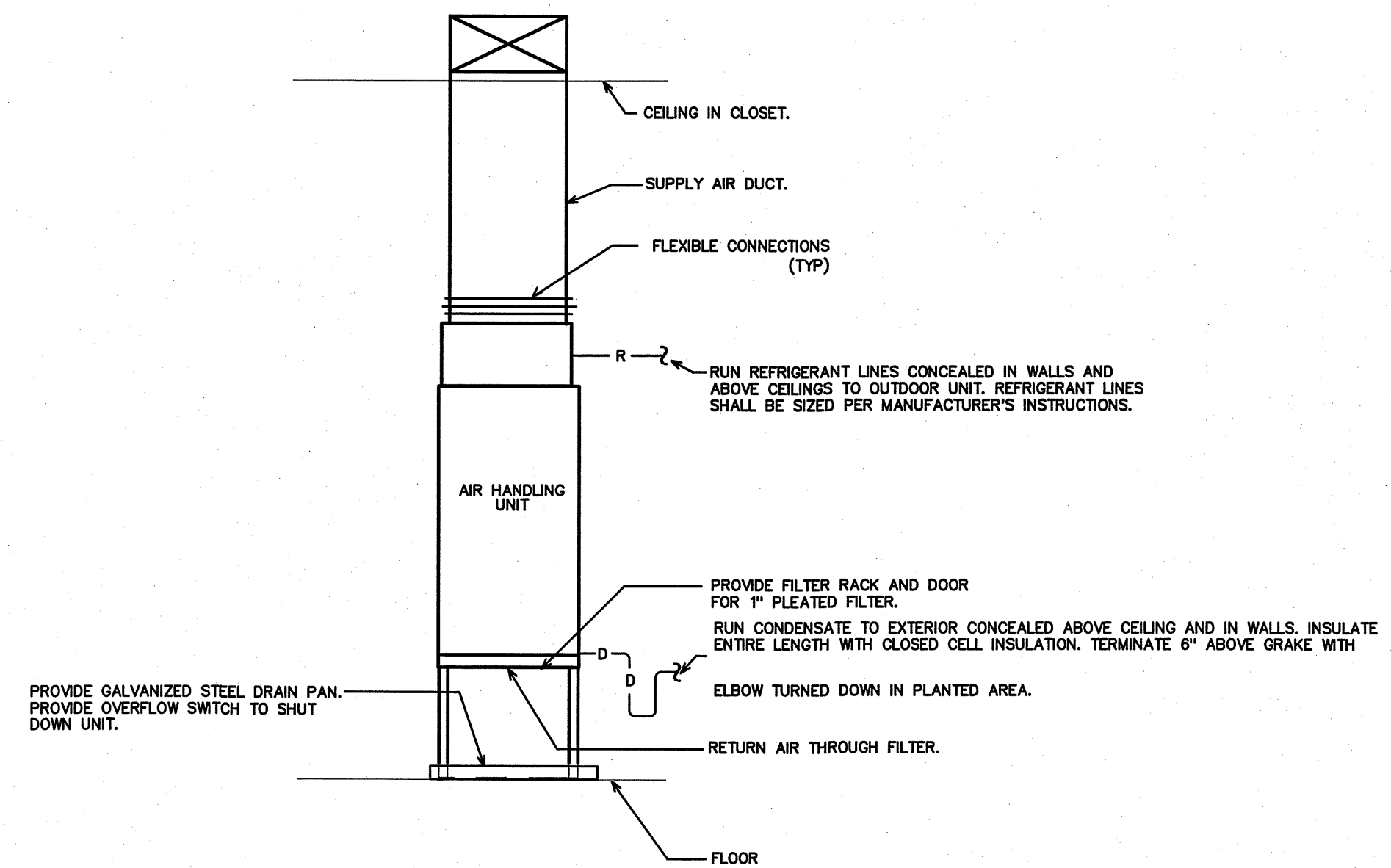
5 DUCT CONSTRUCTION DETAILS
SCALE: NOT TO SCALE



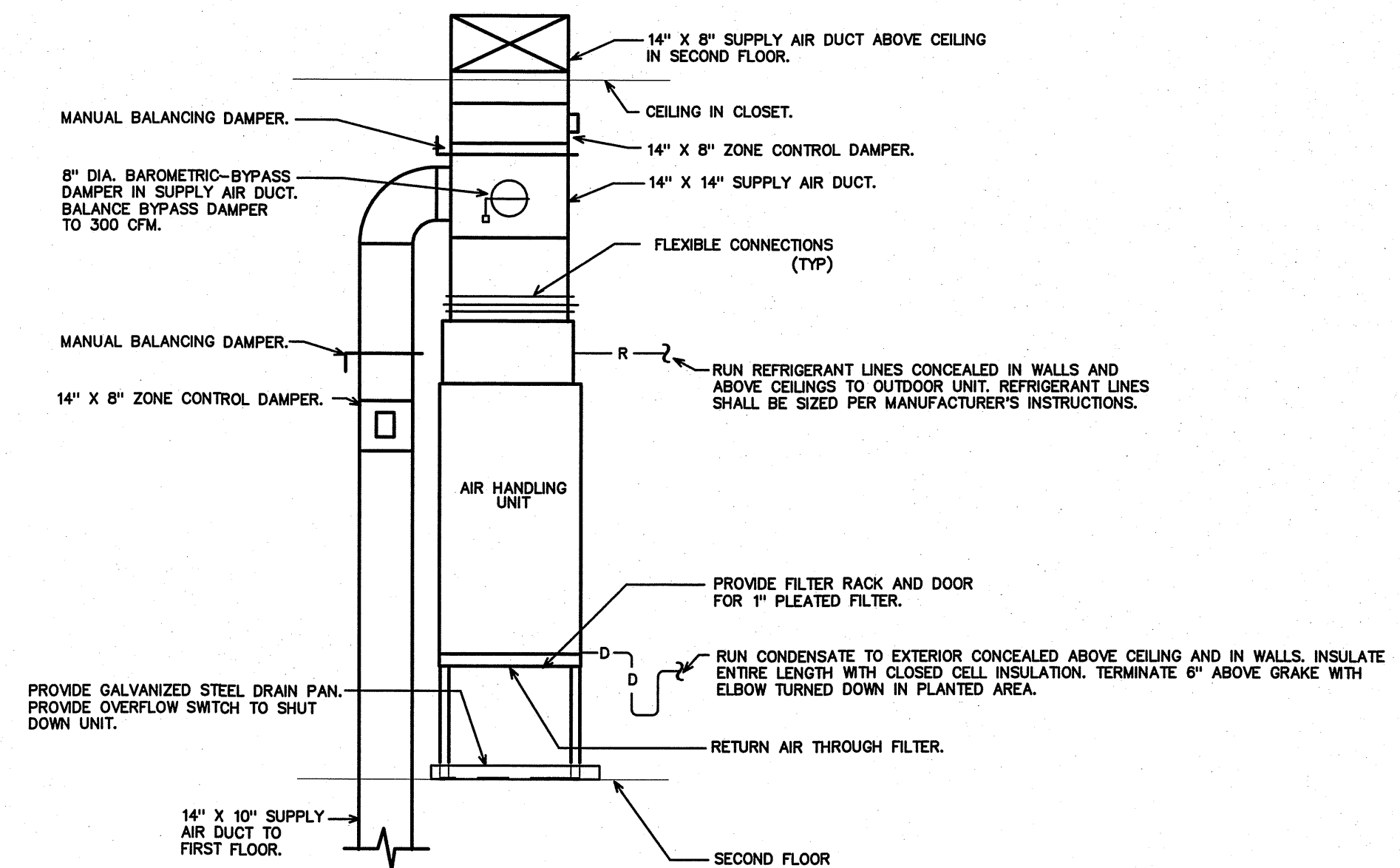
4 SPIRAL DUCT DETAIL
SCALE: NOT TO SCALE



3 AIR HANDLING UNIT #1 & #2 DETAIL
SCALE: NOT TO SCALE



2 AIR HANDLING UNIT #3 DETAIL
SCALE: NOT TO SCALE



1 AIR HANDLING UNIT #4 DETAIL
SCALE: NOT TO SCALE

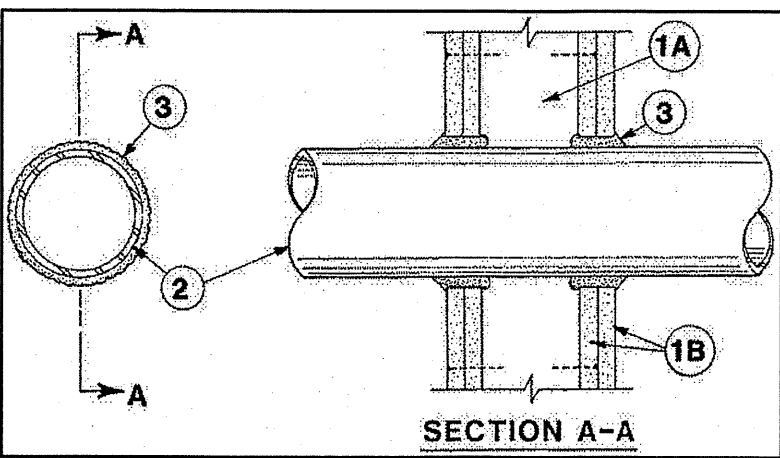
System No. W-L-1001

F Ratings --- 1, 2, 3 and 4 Hr (See Items 2 and 3)

T Ratings --- 0, 1, 2, 3, and 4 Hr (See Item 3)

L Rating At Ambient --- less than 1 CFM/sq ft

L Rating At 400 F --- less than 1 CFM/sq ft



1. **Wall Assembly** --- The 1, 2, 3 or 4 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the Individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs** --- Wall framing may consist of either wood studs (max 2 h fire rated assemblies) or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC with nom 2 by 4 in. lumber end plates and cross braces. Steel studs to be min 3-5/8 in. wide by 1-3/8 in. deep channels spaced max 24 in. OC.

B. **Gypsum Boards** --- Nom 1/2 or 5/8 in. thick, 4 ft. wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the Individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 26 in.

2. **Through-Penetrant** --- One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit, or tubing and periphery of opening shall be min of 0 in. (point contact) to max 2 in. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

A. **Steel Pipe** --- Nom 24 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. **Iron Pipe** --- Nom 24 in. diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in. diam (or smaller) or Class 50 (or heavier) ductile iron pressure pipe.

C. **Conduit** --- Nom 6 in. diam (or smaller) steel conduit or nom 4 in. diam (or smaller) steel electrical metallic tubing.

D. **Copper Tubing** --- Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.

E. **Copper Pipe** --- Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe.

F. **Through Penetrating Products** --- **Flexible Metal Piping** --- The following types of steel flexible metal gas piping may be used:

1. Nom 2 in. diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

OMEGA FLEX INC

2. Nom 1 in. diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

GASTITE, DIV OF TITELLEX

3. Nom 1 in. diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

WARD MFG LLC

Fill, Void or Cavity Material --- **Caulk or Sealant** --- Min 5/8, 1-1/4, 1-7/8 and 2-1/2 in. thickness of caulk for 1, 2, 3 and 4 hr rated assemblies, respectively, applied within annulus, flush with both surfaces of wall. Min 1/4 in. diam bead of caulk applied to gypsum board/penetrant interfaces at point contact location on both sides of wall. The hourly F Rating of the firestop system is dependent upon the hourly fire rating of the wall assembly in which it is installed, as shown in the following table. The hourly T Rating of the firestop system is dependent upon the type or size of the pipe or conduit and the hourly fire rating of the wall assembly in which it is installed, as tabulated below:

Max Pipe or Conduit Diam In	F RATING Hr	T RATING Hr
1	1 or 2	0+, 1 or 2
1	3 or 4	3 or 4
4	1 or 2	0
6	3 or 4	0
12	1 or 2	0

+When copper pipe is used, T Rating is 0 hr.

3M COMPANY --- CP 25WB+ or FB-3000 WT.

+Bearing the UL Classification Mark

DIVISION 16 - ELECTRICAL

PART 1 - GENERAL

1.1 DESCRIPTION OF THE WORK

- Work under this section includes, but is not necessarily limited to, furnishing and installing the following:
 - Electrical service and service equipment.
 - Lighting and power distribution system.
 - Provide lighting fixtures selected by owner with lamps to match.
 - Wiring devices, boxes, cover plates, etc.
 - Source of power for all items of equipment.
 - Grounding.
 - Other requirements and/or systems where shown.
- All work shall be complete and items, equipment, etc., shall be electrically connected for proper and correct operation.

C. All work under this contract shall be installed in accordance with the latest edition of the following codes and standards insofar as they apply:

- The 2017 National Electrical Code.
- The National Electrical Safety Code.
- Underwriter's Laboratories, Inc., Standards and approved listings.
- Electrical Testing Laboratories standards.
- North Carolina Building Code, Latest Edition and Revisions.
- All local codes and ordinances.

D. The Electrical Contractor shall be licensed in the State of North Carolina and have all local licenses required for the work.

E. Obtain all permits, licenses, inspections, etc., required for the work and pay for the same. Furnish final certificate of inspection and approval from the electrical inspector having jurisdiction prior to acceptance of the work.

F. All work shall be done by skilled mechanics and shall present a neat, trim, workmanlike condition when complete.

1.2 INTENT

A. The intent of these specifications and the accompanying drawings is to convey as reasonably as possible the requirements for a complete job ready for the building to operate. The Electrical Contractor shall take this into consideration and include in his base bid allowance for contingencies as will allow him to provide minor pieces of equipment and labor not specifically indicated but required for the job to operate properly, at no additional cost to the Owner.

1.3 COORDINATION

A. Coordinate work with other contractors. Notify Architect of apparent conflicts early to expedite construction. If structural damage appears imminent, stop work and notify Architect for a decision before resuming operations.

B. Locations shown are approximate. The drawings do not give exact details as to elevations and locations of various pipes, fittings, ducts, conduit, etc., and do not show all offsets and other installation details which may be required. Coordinate all locations with architect before any rough-in.

1.4 SHOP DRAWINGS

A. Shop drawings shall be submitted for panels and service equipment, lighting, wiring devices, and cover plates. These may consist of the manufacturer's standard catalog or tear sheets and shall have the exact items being offered clearly identified.

PART 2 - PRODUCTS AND MATERIALS

2.1 GENERAL

A. All material shall be new and shall bear the manufacturer's name, trade name, and UL label where such standard has been established for the particular material. Materials shall be the standard products of manufacturer's regularly engaged in the manufacture of the required type of equipment and the manufacturer's latest approved design.

- Boxes installed in concealed locations shall be set flush with the finished surfaces.
- Provide rated boxes in all fire barriers & walls installed per code.

2.2 NOT USED

2.3 CONDUCTORS

- Conductors shall be color coded, sizes #8 and larger may be color taped on the job. Color coding shall be Standard Practice.
- Conductors shall be manufactured by Dodge, Southwire or approved equal. Conductors shall meet the latest requirements of NEMA and ICEA and shall be UL approved.
- Metallic sheathed "MC" cable may be used where allowed by N.E.C.

D. Conductors shall be spliced and taped as follows:

- Size #10 and #12, use Ideal "Wing Nuts" or TAB "Piggy" connectors. Connectors shall be rated for 150 degrees C for use in recessed lighting fixtures.
- Size #8 and larger shall be solderless screw and screw-clamping type, smoothly covered and shaped with rubber gum type with final cover vinyl plastic electrical type. In lieu of rubber gum and vinyl plastic type, factory fabricated approved preformed insulating covers may be used. All connectors shall be UL approved.
- No split-bolt type connectors may be used.

E. All branch wire and connections shall be copper and sized per National Electric Code.

F. All conductors shall be continuous without splice between junction, outlet, device boxes, etc. No splicing will be permitted in panelboard cabinets, safety switches, etc.

G. All wiring in mechanical spaces shall be plenum rated.

H. Provide GFI protection within 6'-0" of any sink.

I. All multi-wire branch circuits shall comply with 2017 NEC, 210.4(B).

J. All wiring at medical facilities shall comply with 2017 NEC, 517.1.

2.4 PANELBOARDS, SAFETY SWITCHES

- Panelboards shall comply with NEMA Standard PB 1 - Latest Edition and as manufactured by Square D or ITE-Siemens.
- The contractor shall be responsible for correctly phasing the circuits in the panelboards.
- Safety switches shall be general duty type, size and rating as required for load service. Safety switches shall be fused or unfused as shown and/or as required. Safety switches serving motor loads shall be horsepower rated for load served.

2.5 NOT USED

2.6 WIRING DEVICES

- Wiring devices shall be commercial grade by Bryant, Leviton, or approved equal. With matching cover. Color by Architect.
- Wiring devices installed under a Kitchen Hood shall have stainless steel covers.
- Wiring devices installed over counters shall comply with ANSI A117.1.

2.7 NOT USED

2.8 CONDUIT

- PVC conduit will be allowed where N.E.C. approved.
- All service conduit shall be rigid where exposed below 8'-0" AFF or exposed to the elements or hazardous conditions.

PART 3 - EXECUTION

3.1 CIRCUIT GROUNDING

- All circuits shall contain an insulated, green, copper grounding conductor, sized in accordance with Table 250-95 of the NEC. Grounding conductors shall be connected to equipment grounding bus in panelboard and securely attached and grounded to the device or enclosure at the other end.

3.2 GROUNDING TYPE CONVENIENCE OUTLETS AND SWITCHES

A. Outlets and switches shall be solidly grounded to equipment grounding system with a green colored insulated conductor. Electrical connections shall be continuous from equipment ground bus in panelboard to the hex nut on the convenience outlet or switch.

3.3 MOTORS

- All motors shall be connected to conduit system with short length (minimum length 24" and maximum length 36") of flexible liquidtight conduit.

3.4 NOT USED

3.5 EQUIPMENT LABELING

- Provide permanent name plates for all panelboards, safety switches, wiring troughs, etc., for identification of equipment controlled, services, etc. Nameplates shall be securely and permanently attached to equipment with stainless steel screws. Nameplates shall include the name of the equipment and where it is fed from.
- All switch plates, receptacle plates and outlet covers shall be labeled with machine printed vinyl labels identifying the circuit(s) within.

C. All empty conduit runs shall be identified and indicated where they terminate.

- Provide typewritten directory in each panelboard to clearly identify each circuit, service, etc.

3.6 NOT USED

3.7 NOT USED

3.8 JUNCTION AND/OR PULL BOXES

A. Boxes shall be installed where necessary to avoid excessive runs and/or too many bends between outlets.

3.9 PULL WIRE

- Leave pull wire in each empty conduit run.

3.10 NOT USED

3.11 GROUNDING

A. All grounding shall be in accordance with Article 250 of the NEC. In addition, the following requirements shall be met:

- Grounding conductors shall be installed as to permit the shortest and most direct path from equipment to ground. All connections to grounding conductors shall be accessible.
- Equipment ground continuity shall be maintained through flexible metal conduit.
- All wiring devices equipped with grounding connection shall be solidly grounded to ground system with grounding conductors.
- The frame of all lighting fixtures shall be securely grounded to the equipment ground system with grounding conductors.
- All equipment enclosures, and non-current-carrying metallic parts of electrical equipment, raceway systems, etc., shall be effectively and adequately bonded to ground.
- All equipment enclosures, and non-current-carrying metallic parts of electrical equipment, raceway systems, etc., shall be effectively and adequately bonded to ground.

3.12 ELECTRICAL WORK IN CONNECTION WITH OTHER WORK

A. **PLUMBING WORK:** The Electrical Contractor shall furnish and install switches and devices as shown and electrically connect electric water heaters, etc. All other electrical work required will be performed by the PLUMBING CONTRACTOR.

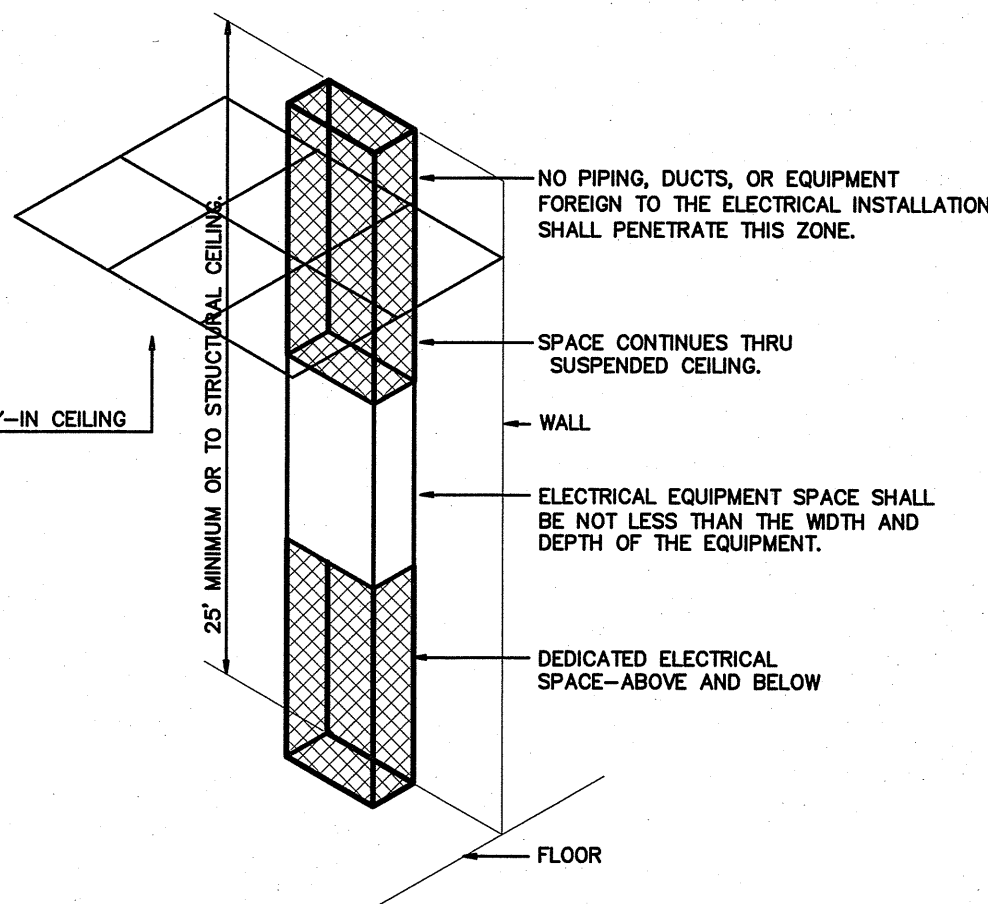
B. **HEATING AND AIR CONDITIONING WORK:** The Electrical Contractor shall provide all disconnect switches, starters, and associated hardware for the equipment furnished including all line and load side wiring and conduit. Final connections to the equipment will be by the HVAC contractor. All control wiring will be accomplished by the HVAC contractor. Coordinate all work associated with the HVAC contractor.

3.13 CLEAN UP

A. During construction, keep the site clean of debris. Upon completion, and before final inspection, clean up the premises to remove all evidence of work. In addition upon completion of construction leave equipment clean.

3.14 GUARANTEE

A. Guarantee all materials and labor included in the electrical work for a period of one year from date of final acceptance by the Owner. Any part or parts of the work or equipment which prove to be defective during the guarantee period shall be replaced at no additional cost to the Owner.



ELECTRICAL EQUIPMENT DEDICATED SPACE
PER ARTICLE 110.26.F.1 OF N.E.C.

DEDICATED SPACE
SCALE: NTS

GENERAL NOTES

1. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ALL LOCAL CODES HAVING JURISDICTION.

2. ALL BRANCH CIRCUIT CONDUCTORS TO BE COPPER (SERVICE CONDUCTORS MAY BE ALUMINUM WITH SAME AMPACITY AS COPPER CONDUCTORS. RE-SIZE CONDUCTORS AND CONDUIT PER NEC).

3. ALL CIRCUITS TO BE 2 #12, 1 #12 GND IN 1/2" EMT CONDUIT AS A MINIMUM. PROVIDE WIRING FOR LARGER CIRCUITS AS REQUIRED BY NEC. RIGID CONDUIT IS REQUIRED WHERE EXPOSED BELOW 8'-0" A.F.F.

4. ALL EMPTY CONDUIT RUNS IN EXCESS OF 10 FEET SHALL BE PROVIDED WITH A PULL WIRE OR FISH TAPE/CORD.

5. CONTRACTOR SHALL VERIFY THAT ALL DOOR SWINGS ARE CORRECT BEFORE INSTALLING LIGHT SWITCH OUTLETS.

6. ALL BRANCH CIRCUIT CONDUCTORS FROM THE PANEL TO THE FIRST OUTLET SHALL BE INCREASED TO THE NEXT LARGER SIZE WHERE THE LENGTH OF THE HOME RUN EXCEEDS 120 FEET ON 120V AND 208V CIRCUITS.

7. THE CORRECT NUMBER OF WIRES MAY NOT BE INDICATED FOR ALL CIRCUITS. ONLY THOSE WHERE CLARIFICATION IS NECESSARY. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL WIRES NECESSARY FOR THE PROPER FUNCTION OF THE SYSTEM WHETHER INDICATED ON DRAWINGS OR NOT.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTLY PHASING THE CIRCUITS IN THE PANELBOARDS.

9. THE ELECTRICAL CONTRACTOR SHALL VERIFY THE TYPE OF CEILING SYSTEM WITH THE GENERAL CONTRACTOR TO INSURE THAT ALL LIGHTING FIXTURES ARE COMPATIBLE WITH THE CEILING SYSTEM BEING INSTALLED. LIGHTING FIXTURES SHOULD NOT BE ORDERED UNTIL TYPE OF CEILING HAS BEEN VERIFIED.

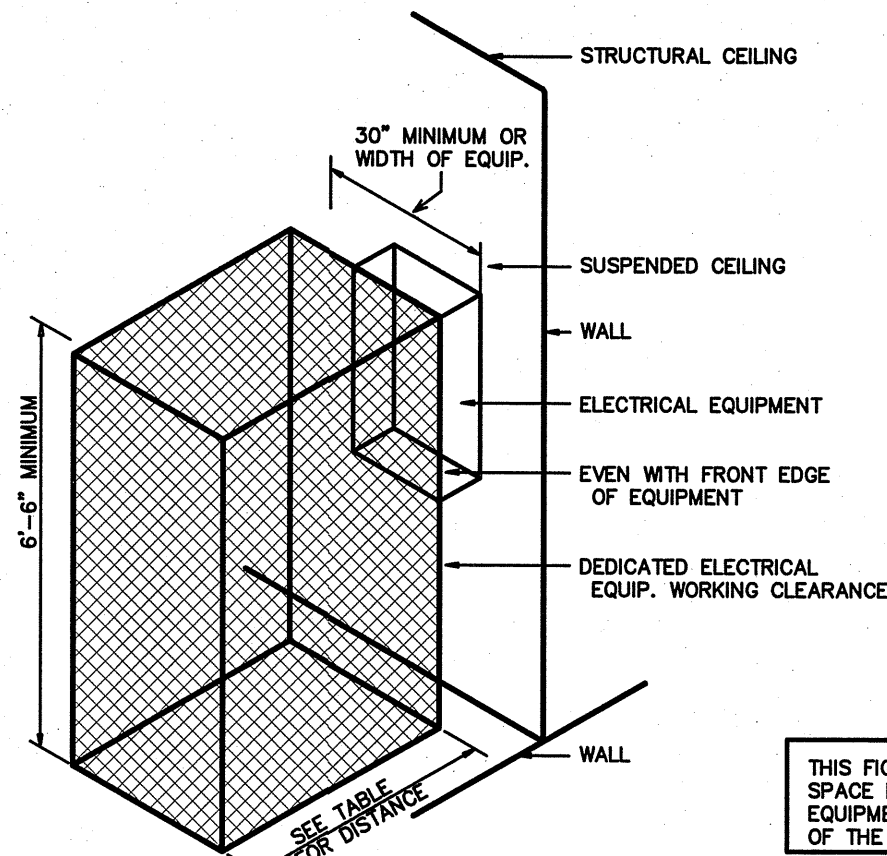
10. ELECTRICAL REQUIREMENTS INDICATED ON DRAWINGS MAY DIFFER FROM ACTUAL EQUIPMENT FURNISHED. IF FURNISHED EQUIPMENT DIFFERS FROM RATINGS ON DRAWINGS CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER FOR APPROPRIATE ACTION TO BE TAKEN.

11. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO COORDINATE EXACT BREAKER REQUIREMENTS FOR ALL EQUIPMENT PRIOR TO ORDERING PANEL. ADJUST BREAKER AND WIRE SIZES AS REQUIRED.

12. PROVIDE BOXES, JACKS, WIRING AND CONDUIT FROM LOCATIONS SHOWN TO MTP LOCATION. VERIFY EXACT REQUIREMENTS WITH OWNER.

13. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL DISCONNECTS FOR MECHANICAL & PLUMBING EQUIPMENT. DISCONNECTS SHALL BE PER MANUFACTURERS RECOMMENDATIONS AND FUSED PER NAME PLATE. PROVIDE NEMA 3R ENCLOSURES ON EXTERIOR. COORDINATE FUSE SIZES.

14. THE EC SHALL MEET WITH THE ARCHITECT AND TENANT PRIOR TO INSTALLING OUTLET BOXES TO VERIFY LOCATIONS AND MOUNTING HEIGHTS OF RECEPTACLES AND TELEPHONE OUTLETS.



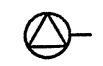
ELECTRICAL EQUIPMENT WORKING CLEARANCE
PER ARTICLE 110-26 OF N.E.C.

VOLTAGE TO GROUND NOMINAL	WORKING CLEARANCES			
	CONDITION	1	2	3
0-150		3	3	3
151-600		3	3-1/2	4

WHERE THE CONDITIONS ARE AS FOLLOWS:

- EXPOSED LIVE PARTS ON ONE SIDE AND NO LIVE OR GROUNDED PARTS ON THE OTHER SIDE OF THE WORKING SPACE. OR EXPOSED LIVE PARTS ON BOTH SIDES EFFECTIVELY GUARDED BY SUITABLE WOOD OR INSULATED BUSBARS OPERATING AT NOT OVER 300V SHALL NOT BE CONSIDERED LIVE PARTS.
- EXPOSED LIVE PARTS ON ONE SIDE AND GROUNDED PARTS ON THE OTHER SIDE.
- EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORK SPACE (NOT GUARDED AS PROVIDED IN CONDITION 1) WITH THE OPERATOR BETWEEN.

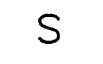
ELECTRICAL LEGEND



SPECIAL PURPOSE RECEPTACLE - REFER TO POWER PLAN AND PANEL SCHEDULE



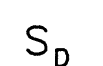
DUPLEX RECEPTACLE - 120V, MOUNT 18" TO CENTER AFF. UNLESS NOTED OTHERWISE, "WP" INDICATES WEATHER PROOF, "GFI" INDICATES GROUND FAULT CURRENT INTERRUPT PROTECTED.



LIGHT SWITCH



SWITCH WITH INTEGRAL PIR/US MOTION SENSOR FOR AUTOMATIC SHUT-OFF WITH UP TO 2 HOUR ADJUSTABLE DELAY.



DIMMABLE LIGHT SWITCH



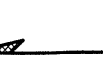
MOTOR RATED SWITCH



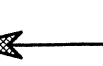
JUNCTION BOX



TELE/DATA OUTLET - PROVIDE JUNCTION BOX WITH CONDUIT BACK TO MTP. PROVIDE (1) TELEPHONE JACK AND (1) CAT 5 DATA JACK



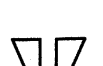
SINGLE-POLE HOMERUN TO PANELBOARD



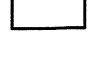
TWO-POLE OR 3-POLE HOMERUN TO PANELBOARD



EXIT LIGHT



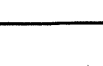
EMERGENCY EGRESS FIXTURE



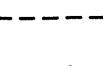
PHOTOCELL



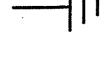
BRANCH CIRCUIT WIRING



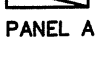
SWITCH LEG



GROUND CONNECTION



DISTRIBUTION PANELBOARD



DISCONNECTING MEANS AS REQUIRED BY CODE

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PLC

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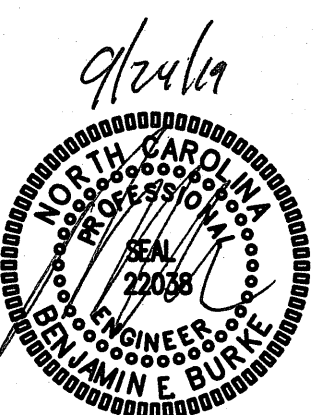
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VILLAGE WEST
PHASE 1
EMERALD ISLE, NORTH CAROLINA



ELECTRICAL
SPECIFICATIONS
ALL UNITS

18030

ISSUED: 09/11/19

DWG BY: TCM

CKD BY: BEB

REVISIONS

SHEET NO.

E-1

1 OF 25

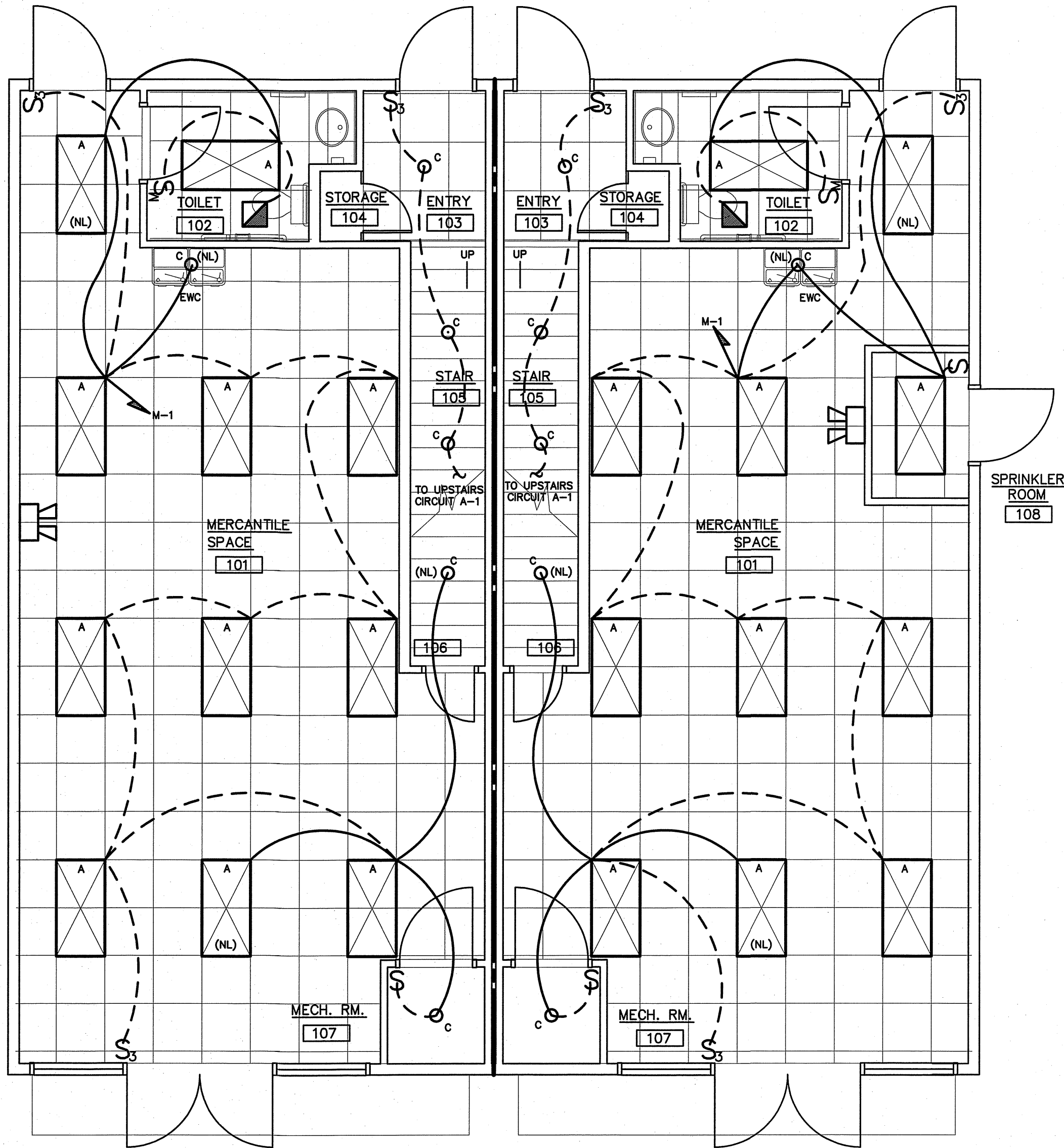
Village West Ph1 E5.1 FIXTURE / DEVICE SCHEDULE *									
MARK	MANUFACTURER	CATALOG NO.	VOLT.	LAMPS NO. TYPE VA	BALLAST TYPE	VA/ FIXTURE	REMARKS		
A	COLUMBIA	J7824-332G-FSA12-3EU	120	2 T8 32	EB	64	2X4 LAY-IN, PRISMATIC ACRYLIC LENS		**
B	COLUMBIA	CS4-232E-U-CSW4	120	2 T8 32	EB	64	4 FOOT STRIP FIXTURE WITH WIRE GUARD		**
C	PRESCO LITE	LF6LED04-6LFLED0435K	120	- LED 20	-	20	6" RECESSED CAN LIGHT		
EXIT	MULE	ELW-BB-15WL-W-DP	120	2 LED 15	-	15	EXIT LIGHT, WHITE HOUSING, RED STENCIL, UNIVERSAL STENCIL KIT		
EXIT	MULE	ELX-1-B-RC-WH-NC	120	- LED 2	-	2	COMBINATION EMERGENCY (TUNGSTEN)/ EXIT (LED) LIGHT		
EXIT	MULE	AL-1-R-WW-SD	120	- LED 1.5	-	1.5	EMERGENCY LIGHT		

* OR APPROVED EQUAL. PROVIDE CUT SHEETS FOR OWNER APPROVAL PRIOR TO ORDERING FIXTURES. FOR FLUORESCENT FIXTURES CONTROLLED BY MOTION SENSOR, PROVIDE "PROGRAMMED RAPID START" BALLASTS. CATALOG NUMBERS ARE FOR REFERENCE ONLY, ACTUAL NUMBERS MAY VARY. "EB" DENOTES ELECTRONIC BALLAST.

** VERIFY FIXTURE HAS INTEGRAL LOCAL DISCONNECTING MEANS PER NEC 410.130 (c) (2008).

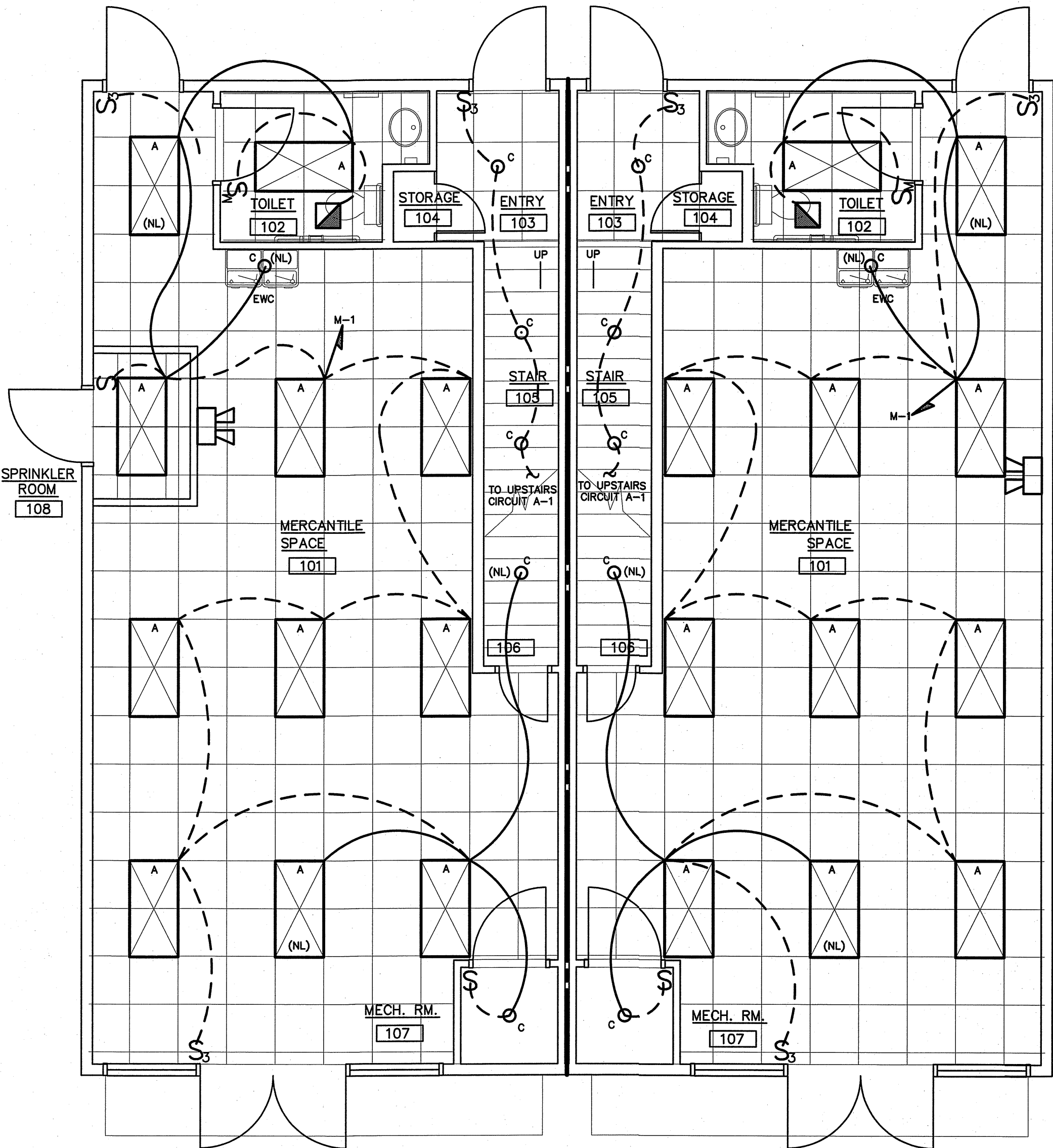
*** PROVIDE LOCAL DISCONNECTING MEANS PER NEC 410.130 (c) (2008). FOR EXISTING FIXTURES, PROVIDE A SWITCH TO ALLOW THE FIXTURE TO BE DE-ENERGIZED. THE SWITCH SHALL BE LOCATED WITHIN SIGHT OF THE LIGHT FIXTURE.

THE EMERGENCY LIGHTS AND EXIT SIGNS MUST HAVE INTEGRAL BATTERIES, CHARGERS AND TEST SWITCHES.



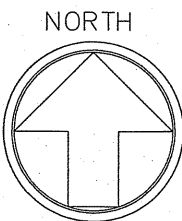
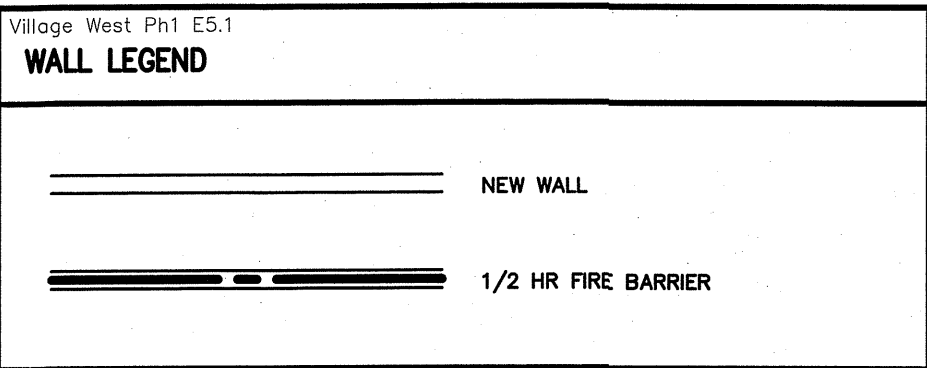
UNIT 9 UNIT 8

1 MERCANTILE FLOOR LIGHTING PLAN UNITS 8/9
E-5.1 SCALE: 1/4" = 1'-0"



UNIT 11 UNIT 10

1 MERCANTILE FLOOR LIGHTING PLAN UNITS 10/11
E-5.1 SCALE: 1/4" = 1'-0"



ENGINEER
BURKE DESIGN GROUP
3305-109 DURHAM DRIVE
RALEIGH, NC 27603
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P.A.C.

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Planning

Interiors

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VILLAGE WEST
UNITS 12,13
EMERALD ISLE, NORTH CAROLINA



MERCANTILE FLOOR
LIGHTING PLAN
UNITS 8/9/10/11

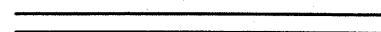
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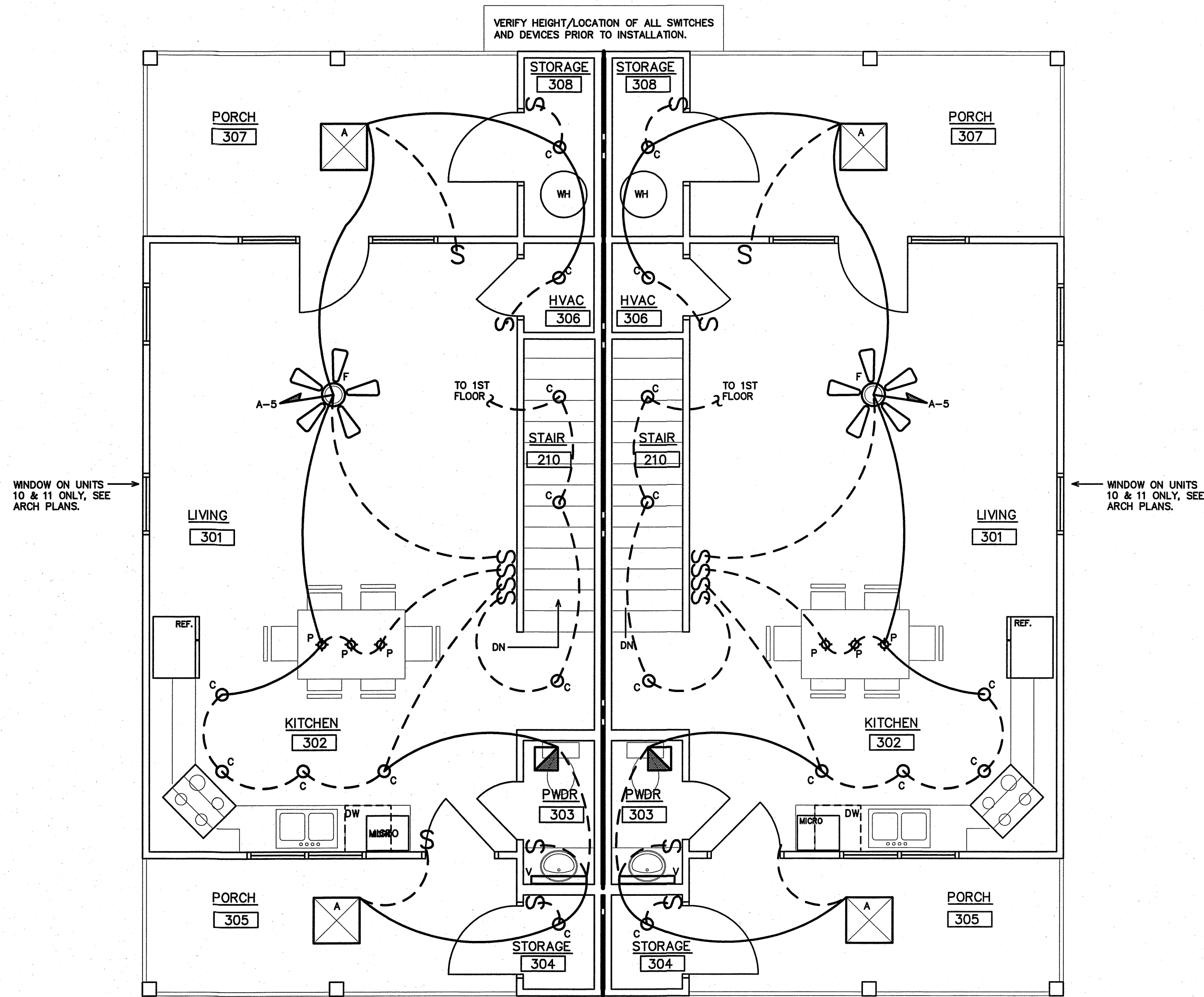
ISSUED: 09/11/19
DWG BY: TCM
CKD BY: BEB

REVISIONS

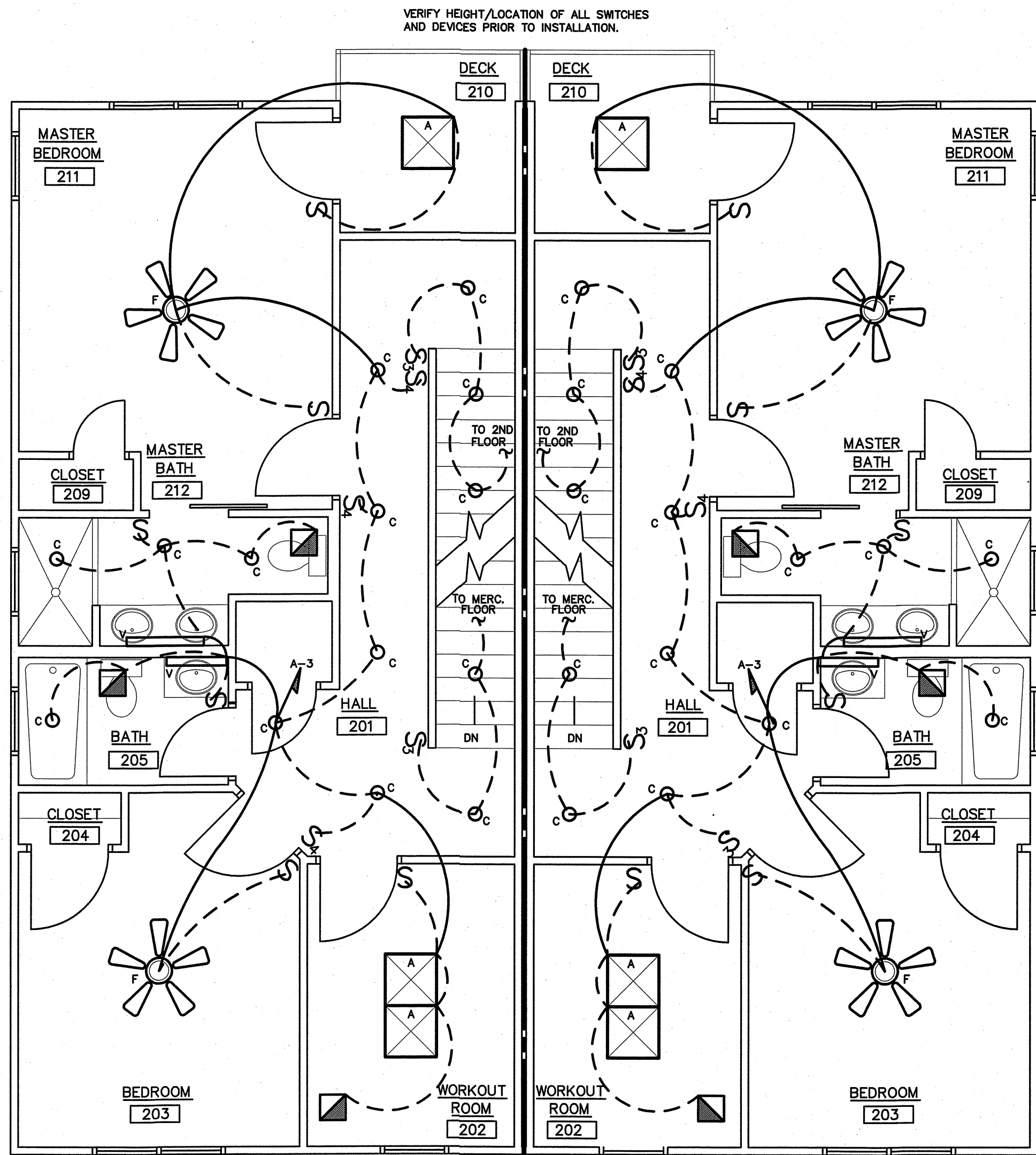
SHEET NO.
E-5.1
21 OF 25

LIGHTING SCHEDULE *						
MARK	VOLT.	LAMPS	BALLAST	VA/	REMARKS	
NO.	TYPE	TYPE	TYPE	FIXTURE		
A	120	FLUR	EB	32	EXTERIOR 2X2 SURFACE MOUNT, WEATHER RATED/GASKETED	** *
C	120	LED	EB	20	CAN LIGHT	** *
F	120	FLUR	—	100	CEILING FAN WITH INTEGRATED, SEPARATELY SWITCHED LIGHT	** *
P	120	LED	—	20	SMALL LED PENDANT — OVER COUNTER/BAR	** *
V	120	FLUR	—	50	BATHROOM VANITY FIXTURE	** *

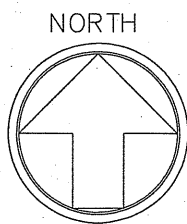
Village West Ph1 E5.2	
WALL LEGEND	
	NEW WALL
	1/2 HR FIRE BARRIER



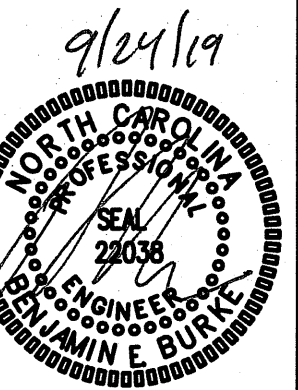
2 SECOND FLOOR LIGHTING PLAN UNITS 8/9/10/11
E-5.2 SCALE: 1/4" = 1'-0"



1 FIRST FLOOR LIGHTING PLAN UNITS 8/9/10/11
E-5.2 SCALE: 1/4" = 1'-0"



**VILLAGE WEST
UNITS 8-9-10-11
EMERALD ISLE, NORTH CAROLINA**



MERCANTILE FLOOR
POWER PLANS
UNITS 8/9/10/11

18030

ISSUED: 09/11/19

DWG BY: TCM

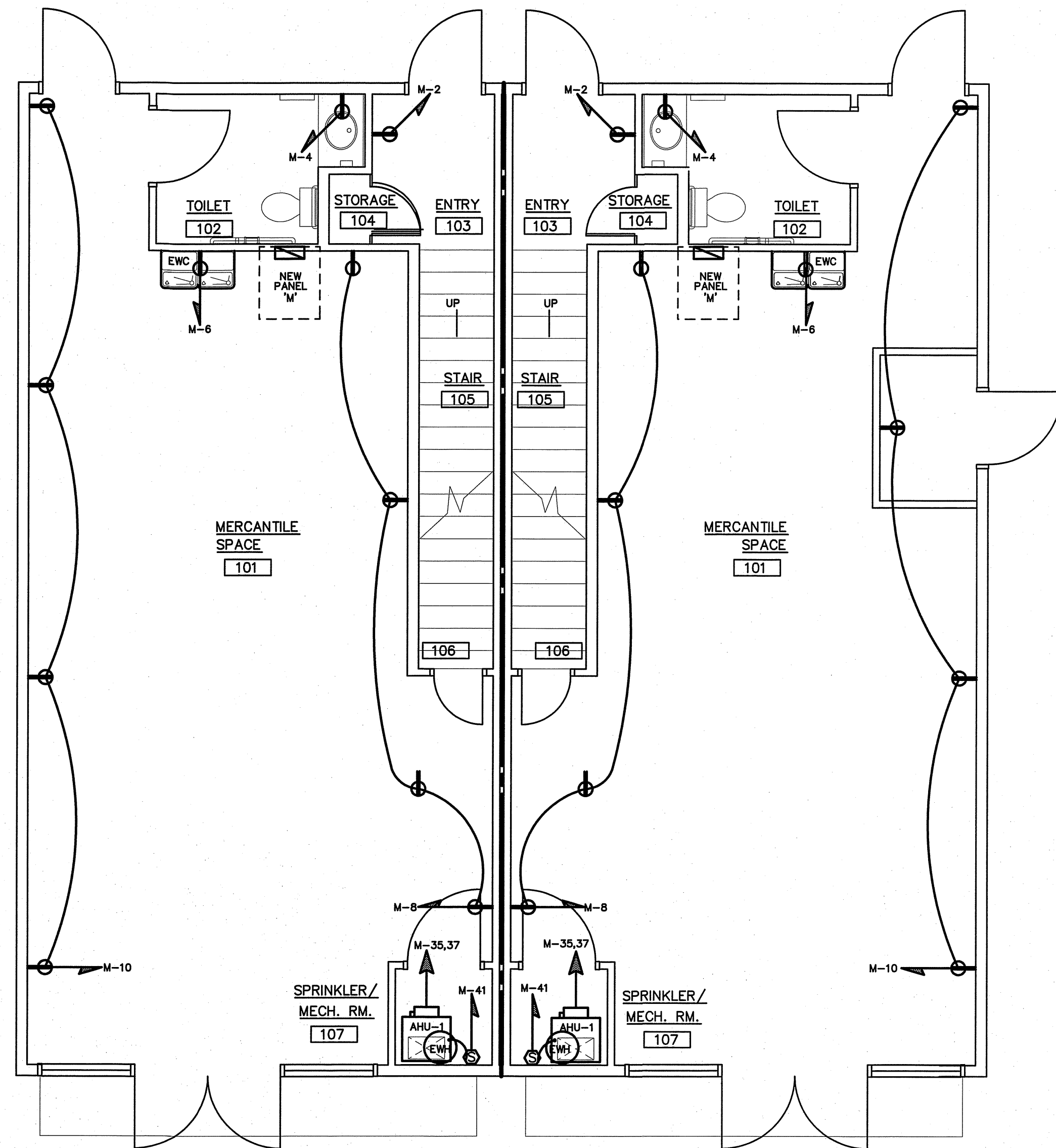
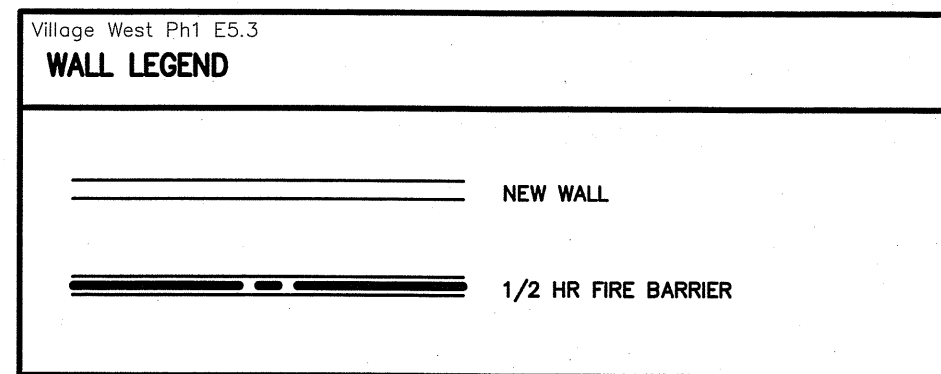
CKD BY: BEB

REVISIONS

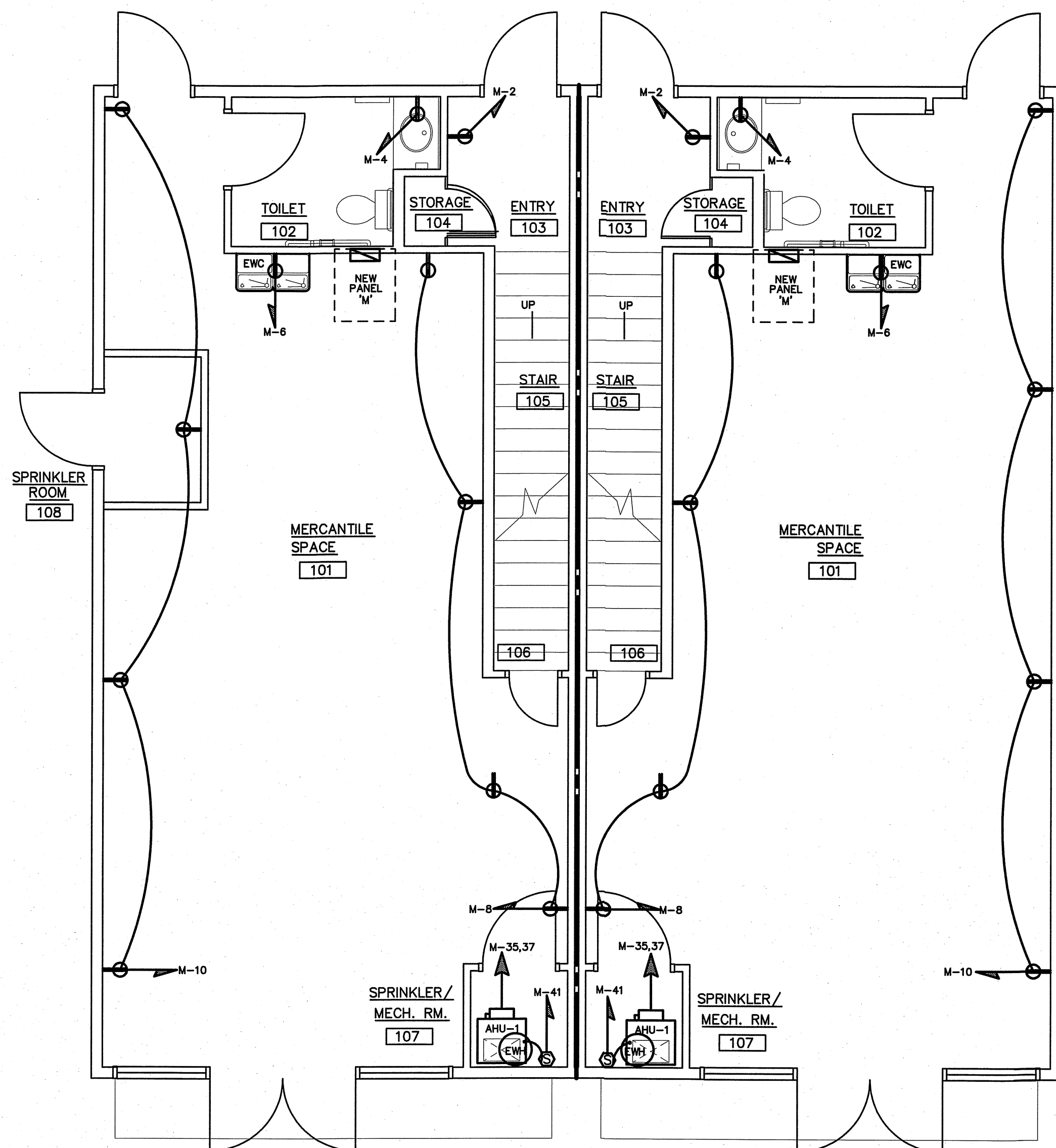
SHEET NO.

E-5.3

23 OF 25

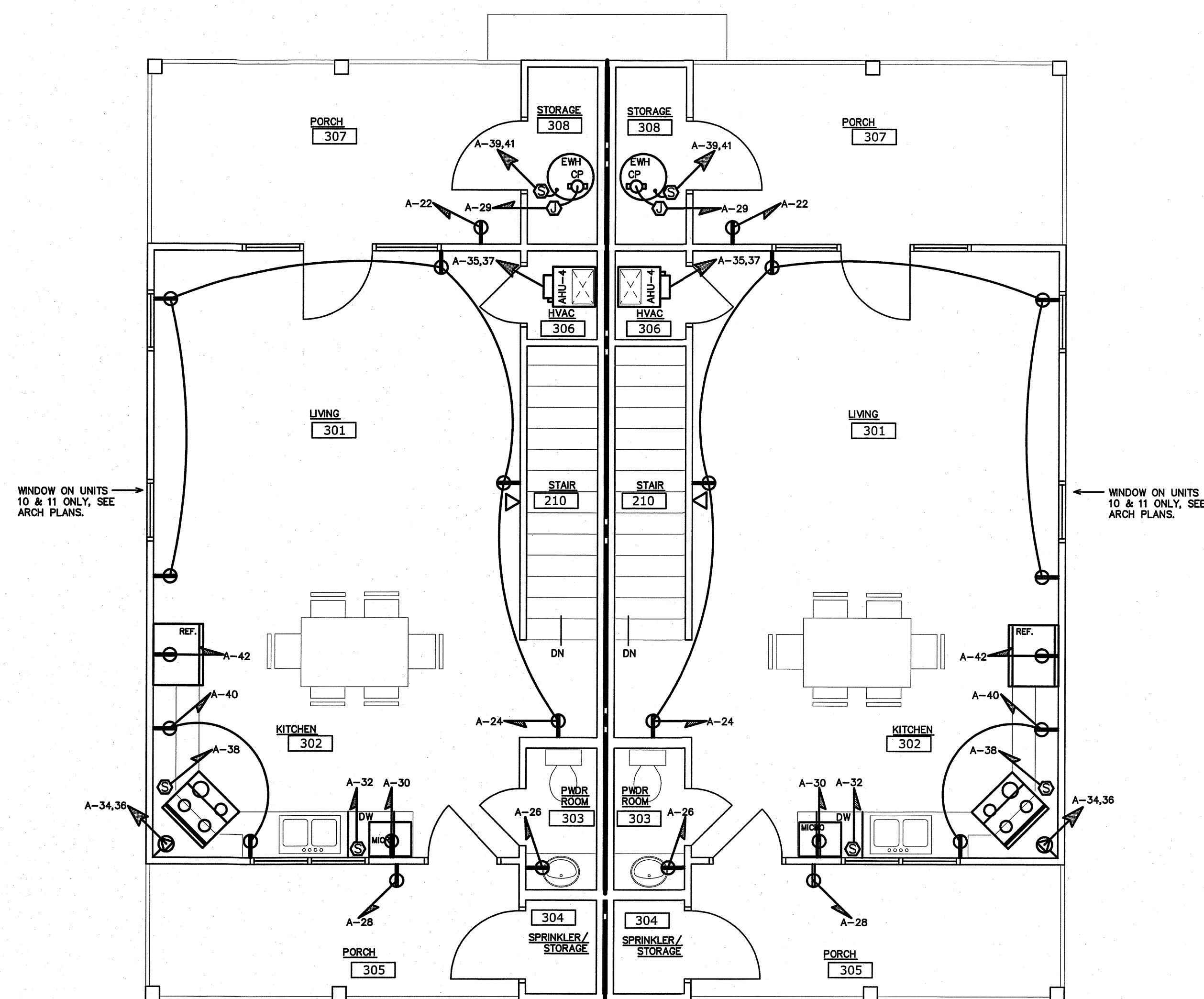
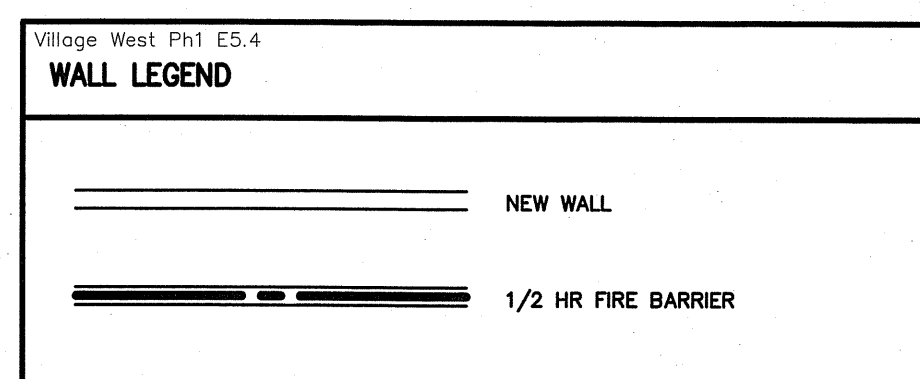
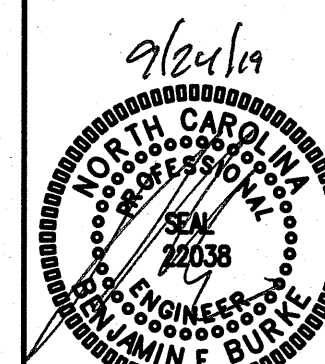


1 MERCANTILE FLOOR POWER PLAN UNITS 8/9
E-5.3 SCALE: 1/4" = 1'-0"

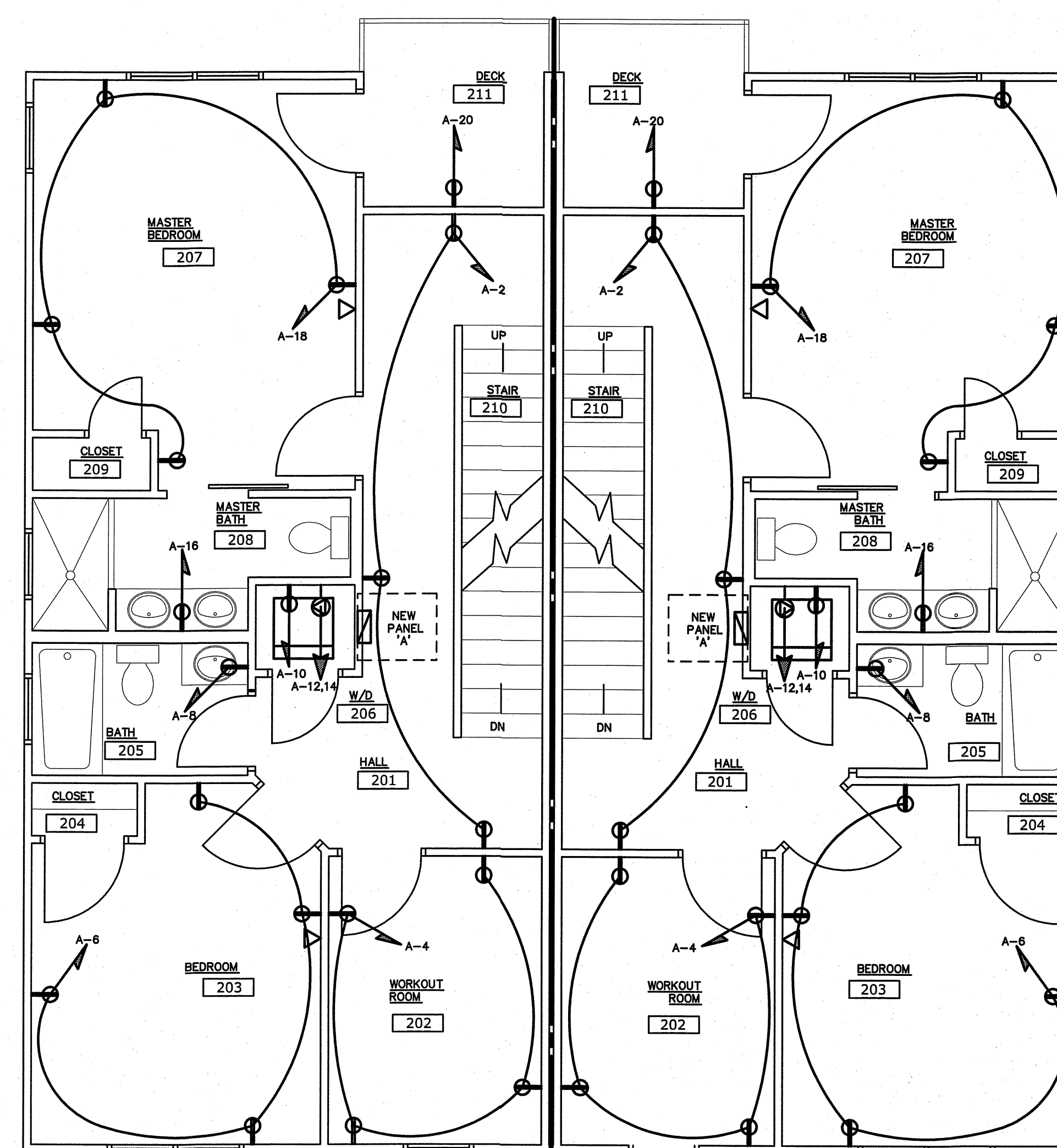


2 MERCANTILE FLOOR POWER PLAN UNITS 10/11
E-5.3 SCALE: 1/4" = 1'-0"

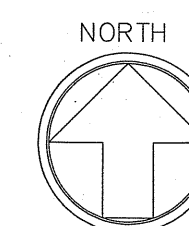




2 SECOND FLOOR POWER PLAN UNITS 8/9/10/11
E-5.4 SCALE: 1/4" = 1'-0"



1 FIRST FLOOR POWER PLAN UNITS 8/9/10/11
E-5.4 SCALE: 1/4" = 1'-0"



NOTE:
ALL PANEL A'S ARE TO REFLECT THE WIRING SHOWN ON THE PANEL BELOW. ALL PANELS IN UNITS 8-11 ARE IDENTICAL.

Village West PH E-5.5		MAKE: CUTLER HAMMER		RATING: 120/240V 1 PHASE 3 WIRE		M.L.O. MAIN CIRCUIT BREAKER	
NEW PANEL- 'A'		TYPE: CH LOAD CENTER		MOUNTING SURFACE		EQUIPMENT GROUND BUS	
FED FROM:		OR APPROVED EQUAL		MINIMUM AIC VERIFY		SERVICE ENTRY RATED	
LOAD SERVICE	CKT BRKR	WATTS PER PHASE	CKT NO	NEUTRAL	CKT NO	WATTS PER PHASE	CKT BRKR
	A	B		A B		A B	
LTS: ENTRYWAY STAIRS	20A	100	1		2	540	20A
LTS: FIRST FLOOR	20A	494	3		4	720	20A
LTS: SECOND FLOOR	20A	972	5		6	720	20A
SPARE	20A	----	7		8	180	20A
SPARE	20A	----	9		10	1440	20A
SPACE		----	11		12	2500	20A
SPACE		----	13		14	2500	20A
SPACE		----	15		16	180	20A
SPACE		----	17		18	720	20A
SPACE		----	19		20	180	20A
SPACE		----	21		22	180	20A
SPACE		----	23		24	720	20A
SPACE		----	25		26	180	20A
SPACE		----	27		28	180	20A
CIRC. PUMP	20A	200	29		30	1800	20A
HP-4: 240V/1PH	35A	2148	31		32	1000	20A
16.7 RLA COMP, 1.2 FLA FAN		2148	33		34	4000	20A
AHU-4: 240V/1PH	50A	4332	35		36	4000	20A
4.1 FLA FAN, 32.0 FLA EH		4332	37		38	696	20A
E.W.H.	30A	2250	39		40	360	20A
		2250	41		42	1800	20A
NOTES	SUB-TOTALS 'B'		10002	9224	200A BUS		14576
					LUGS		10002
					FEED		24578
					VERIFY SIZE		205A
					AMPS/PHASE		180A
					SUB-TOTALS 'A'		10020
					SUB-TOTALS 'B'		9224
					GRAND TOTAL		19244
					TOTAL CONNECTED LOAD		

DIVERSIFIED LOAD PER NEC ARTICLE 220-83(B)

LIVING UNIT 8

A. SPACE HEATING & AIR CONDITIONING =
ELECTRICAL HEAT: 100% OF NAMEPLATE RATING = 6,656W
AIR CONDITIONING (UNIT 8): 100% OF NAME PLATE RATING = 5280W

11,936W

B. ALL OTHER LOADS =
GENERAL LIGHTING: 1670 SQ. FT. X 3 W/SQ. FT. = 5010W
2 - 20A APPLIANCE CKTS @ 1500W EACH = 3000W
1 - ELECTRIC WATER HEATER = 4500W
1 - WASHER - 1440W
1 - DRYER - 5000W
1 - DISH WASHER = 1000W
1 - ELECTRIC OVEN/RANGE = 8000W
1 - REFRIGERATOR = 1800W

16,700W

FIRST 8KW @ 100% = 8000W
REMAINDER @ 40% = 8700W

REQUIRED DEMAND LOAD = 28,636W

REQUIRED SERVICE CAPACITY = 119 AMPS

UNIT 8: 28,636W @ 240V 1PH = 119.3A

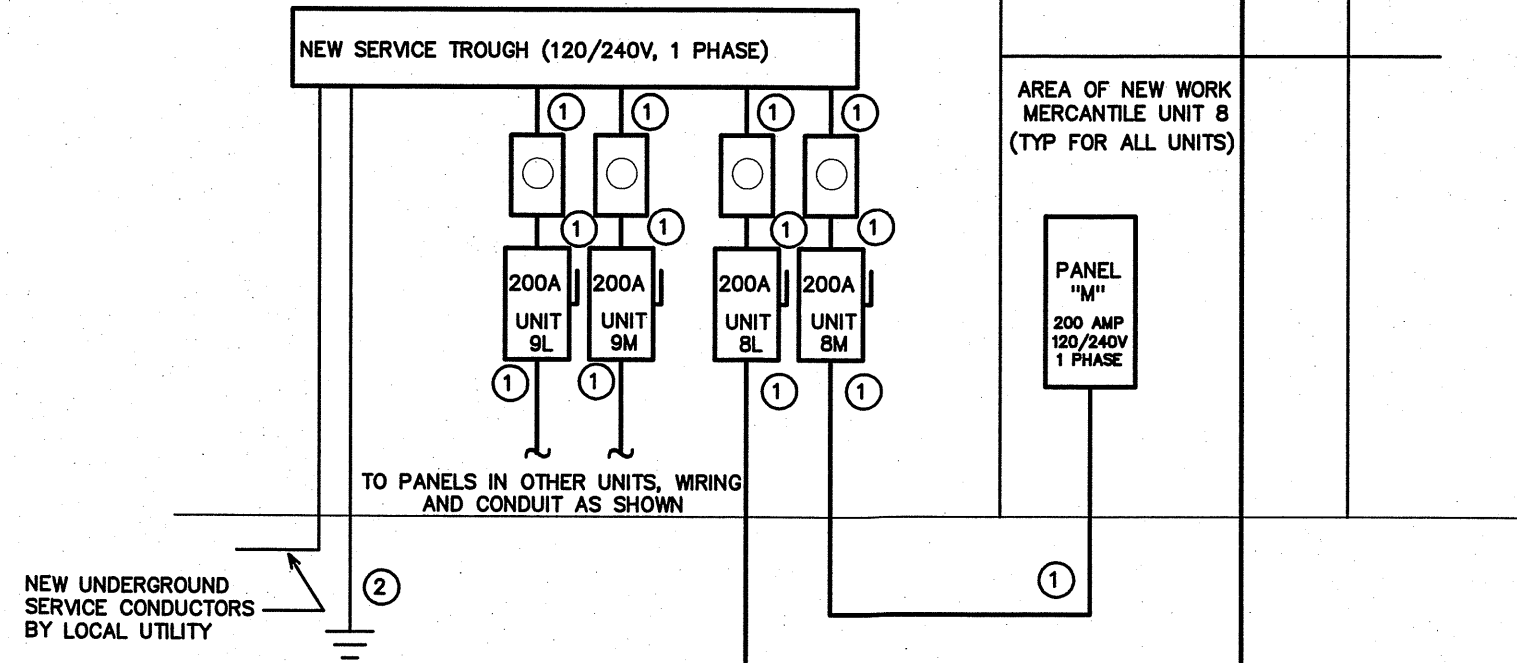
NOTE:
ALL PANEL M'S ARE TO REFLECT THE WIRING SHOWN ON THE PANEL BELOW. ALL PANELS IN UNITS 8-11 ARE IDENTICAL.

Village West PH E-5.5		MAKE: CUTLER HAMMER		RATING: 120/240V 1 PHASE 3 WIRE		M.L.O. MAIN CIRCUIT BREAKER	
NEW PANEL- 'M'		TYPE: CH LOAD CENTER		MOUNTING SURFACE		EQUIPMENT GROUND BUS	
FED FROM:		OR APPROVED EQUAL		MINIMUM AIC VERIFY		SERVICE ENTRY RATED	
LOAD SERVICE	CKT BRKR	WATTS PER PHASE	CKT NO	NEUTRAL	CKT NO	WATTS PER PHASE	CKT BRKR
	A	B		A B		A B	
LTS: MERCANTILE FLOOR	20A	784	1		2	180	20A
SPARE	20A	----	3		4	180	20A
SPARE	20A	----	5		6	888	20A
SPARE	20A	----	7		8	720	20A
SPACE		----	9		10	720	20A
SPACE		----	11		12	----	20A
SPACE		----	13		14	----	20A
SPACE		----	15		16	----	20A
SPACE		----	17		18	----	20A
SPACE		----	19		20	----	20A
SPACE		----	21		22	----	20A
SPACE		----	23		24	----	20A
SPACE		----	25		26	----	20A
SPACE		----	27		28	----	20A
SPACE		----	29		30	----	20A
HP-1: 208V/1PH	20A	1009	31		32	----	20A
9.0 RLA COMP, 0.7 FLA FAN		1009	33		34	----	20A
AHU-1: 208V/1PH	30A	2174	35		36	----	20A
2.8 FLA FAN, 18.1 FLA EH		2174	37		38	----	20A
SPACE		----	39		40	----	20A
E.W.H.	20A	1650	41		42	----	20A
NOTES	SUB-TOTALS 'B'		5617	3183	200A BUS		1788
					LUGS		5617
					FEED		7405
					VERIFY SIZE		62A
					AMPS/PHASE		34A
					SUB-TOTALS 'A'		900
					SUB-TOTALS 'B'		3183
					GRAND TOTAL		4083
					TOTAL CONNECTED LOAD		

NEC ALLOWABLE DEMAND FACTORS		DIVERSIFIED LOAD SUMMARY		
		LOAD TYPE	DEMAND FACTOR	TOTAL DIVERSIFIED LOAD
① DEMAND FACTORS PER NEC 220		GENERAL LIGHTING	125%	980
② LARGEST OF: NEC TABLE 220.12 OR CONNECTED LOAD		TRACK LIGHTING	125%	980
③ NEC TABLE 220.56		GENERAL USE RECEPTACLES	100%	1800
④ NEC 220.51		MOTORS AND EQUIPMENT	125%	2700
⑤ NEC 220.43A, 200 VA/LINEAR FT		WATER HEATERS	100%	840
⑥ NON-COINCIDENT LOADS, LARGEST OF THE TWO LOADS IS COUNTED		KITCHEN EQUIPMENT	125%	2083
		FIX. ELEC. SPACE HEAT.	100%	4344
		SHOW WINDOW LIGHTS	125%	2172
		SIGN	125%	4344
		MISC	100%	888
		PHASE (TOTAL VA)	8773	4842
		TOTAL AMPS	73A	40A
		VOLTS	240V	57A
		TOTAL AMPS		

RISER WIRING SCHEDULE

- 200A: 3-#3/0, 1-#6 CU GND, IN 2" CONDUIT
 - #3/0 CU GND TO BUILDING STEEL, FOUNDATION STEEL AND METALLIC WATER MAIN AND #6 CU GND TO 10' X 5/8" DRIVEN GROUND ROD
- NOTE:
UNLESS OTHERWISE NOTED ALL OTHER CIRCUITS ARE 20A, 120VOLT.
PROVIDE 2-#12, 1-#12 CU GND IN 1/2" CONDUIT.
SEE EQUIPMENT SCHEDULES FOR ADDITIONAL WIRE SIZES.



① ELECTRICAL POWER RISER
E-5.5 SCALE: NOT TO SCALE UNITS 8/9/10/11

VERIFY AVAILABLE FAULT CURRENT AT SERVICE LOCATION WITH LOCAL POWER COMPANY. PROVIDE INFORMATION TO ENGINEER TO CALCULATE MINIMUM PANEL AIC RATING.
EC SHALL PROVIDE LABELING INDICATING FAULT CURRENT AT SERVICE ENTRY AND ON ALL PANELS PRIOR TO ENERGIZING.

ENGINEER
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RALEIGH, NC 27603
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FAX: (919) 779-0826
email: ben@bdg-nc.com
Corp. License # C-2652

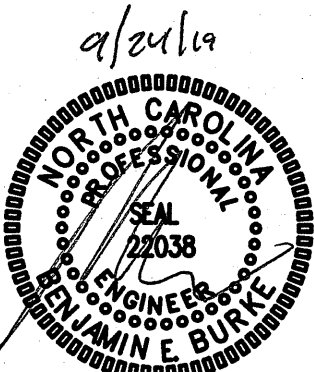
Coastal
Architecture
P.L.L.C.
Architectural
Design
Planning
Interiors



Member of the American
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VILLAGE WEST
UNITS 8-9-10-11
EMERALD ISLE, NORTH CAROLINA



ELECTRICAL
PANELS & RISERS
UNITS 8/9/10/11

18030

ISSUED: 09/11/19
DWG BY: TCM
CKD BY: BEB
REVISIONS

SHEET NO.
E-5.5
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